

SPINNAKER COVES ADDITION
BAUGHMAN COMPANY, P.A. - JDS

SUB AREA	AREA (ACRES)	"C"	SURFACE TYPE	SLOPE (%)	LENGTH (FT)	T1 (MIN)	T2 (MIN)	INTENSITY (INCHES/24 HRS)	FLOW RATE (CFS)
1	1.9	0.50	LAWN	4.0	30	2.7	4.8	3.83	3.7
2	3.1	0.50	GUTTER	4.0	30	2.7	15.0	3.83	3.7
3	0.6	0.76	GUTTER	4.0	30	2.7	15.0	3.83	3.7
4	1.8	0.50	LAWN	4.0	30	2.7	4.8	3.83	3.7
5	3.7	0.50	GUTTER	4.0	30	2.7	15.0	3.83	3.7
6	1.0	0.76	GUTTER	4.0	30	2.7	15.0	3.83	3.7
7	4.4	0.76	GUTTER	4.0	30	2.7	15.0	3.83	3.7
8	2.0	0.50	LAWN	4.0	30	2.7	4.8	3.83	3.7
9	3.2	0.50	LAWN	4.0	30	2.7	4.8	3.83	3.7
10	2.4	0.50	GUTTER	4.0	30	2.7	15.0	3.83	3.7
11	2.4	0.76	GUTTER	4.0	30	2.7	15.0	3.83	3.7

Page 1

SPINNAKER COVES ADDITION
JDS 5-31-95 1 BAUGHMAN COMPANY, P.A.

PIPE SIZE MIN. SLOPE (%)
A-B 18" 0.88
B-C 24" 1.31
D-E 24" 0.35
F-G 24" 1.39
H-I 24" 0.60
J-K 24" 0.64
L-M 24" 0.51
N-O 24" 1.40
P-Q 24" 3.83

Circular Channel Analysis & Design
Solved with Manning's Equation
Open Channel - Uniform flow

Worksheet Name: SPINNAKER
Comment: PIPE A-B
Solve For Full Flow Slope
Given Input Data:
Diameter..... 1.50 ft
Manning's n..... 0.012
Discharge..... 10.70 cfs
Computed Results:
Full Flow Channel Slope 0.0088 ft/ft
Full Flow Depth..... 1.50 ft
Velocity..... 8.05 fps
Flow Area..... 1.77 sf
Critical Depth..... 1.26 ft
Critical Slope..... 0.0085 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 10.70 cfs
QMAX @ 94D..... 11.51 cfs
Froude Number..... FULL

Open Channel Flow Module, Version 3.15 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

Circular Channel Analysis & Design
Solved with Manning's Equation
Open Channel - Uniform flow

Worksheet Name: SPINNAKER
Comment: PIPE B-C
Solve For Full Flow Slope
Given Input Data:
Diameter..... 2.00 ft
Manning's n..... 0.012
Discharge..... 28.00 cfs
Computed Results:
Full Flow Channel Slope 0.0131 ft/ft
Full Flow Depth..... 2.00 ft
Velocity..... 8.91 fps
Flow Area..... 3.14 sf
Critical Depth..... 1.83 ft
Critical Slope..... 0.0114 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 28.00 cfs
QMAX @ 94D..... 30.12 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation
Open Channel - Uniform flow

Worksheet Name: SPINNAKER
Comment: PIPE D-E
Solve For Full Flow Capacity
Given Input Data:
Diameter..... 1.25 ft
Slope..... 0.0035 ft/ft
Manning's n..... 0.012
Discharge..... 4.14 cfs
Computed Results:
Full Flow Capacity..... 4.14 cfs
Full Flow Depth..... 1.25 ft
Velocity..... 3.37 fps
Flow Area..... 1.23 sf
Critical Depth..... 0.82 ft
Critical Slope..... 0.0059 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 4.14 cfs
QMAX @ 94D..... 4.45 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation
Open Channel - Uniform flow

Worksheet Name: SPINNAKER
Comment: PIPE E-F
Solve For Full Flow Slope
Given Input Data:
Diameter..... 1.50 ft
Manning's n..... 0.012
Discharge..... 13.40 cfs
Computed Results:
Full Flow Channel Slope 0.0139 ft/ft
Full Flow Depth..... 1.50 ft
Velocity..... 7.58 fps
Flow Area..... 1.77 sf
Critical Depth..... 1.26 ft
Critical Slope..... 0.0121 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 13.40 cfs
QMAX @ 94D..... 14.41 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation
Open Channel - Uniform flow

Worksheet Name: SPINNAKER
Comment: PIPE F-G
Solve For Full Flow Slope
Given Input Data:
Diameter..... 2.50 ft
Manning's n..... 0.012
Discharge..... 34.30 cfs
Computed Results:
Full Flow Channel Slope 0.0060 ft/ft
Full Flow Depth..... 2.50 ft
Velocity..... 6.99 fps
Flow Area..... 4.91 sf
Critical Depth..... 1.99 ft
Critical Slope..... 0.0063 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 34.30 cfs
QMAX @ 94D..... 36.90 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation
Open Channel - Uniform flow

Worksheet Name: SPINNAKER
Comment: PIPE H-I
Solve For Full Flow Slope
Given Input Data:
Diameter..... 1.25 ft
Manning's n..... 0.012
Discharge..... 5.60 cfs
Computed Results:
Full Flow Channel Slope 0.0064 ft/ft
Full Flow Depth..... 1.25 ft
Velocity..... 4.56 fps
Flow Area..... 1.23 sf
Critical Depth..... 0.96 ft
Critical Slope..... 0.0073 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 5.60 cfs
QMAX @ 94D..... 6.02 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE I-J

Solve For Full Flow Diameter

Given Input Data:
Slope..... 0.0151 ft/ft
Manning's n..... 0.012
Discharge..... 30.10 cfs

Computed Results:
Full Flow Diameter..... 2.00 ft
Full Flow Depth..... 2.00 ft
Velocity..... 9.58 fps
Flow Area..... 3.14 sf
Critical Depth..... 1.86 ft
Critical Slope..... 0.0131 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 30.10 cfs
QMAX @.94D..... 32.38 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE K-L

Solve For Full Flow Slope

Given Input Data:
Diameter..... 1.50 ft
Manning's n..... 0.012
Discharge..... 11.30 cfs

Computed Results:
Full Flow Channel Slope..... 0.0099 ft/ft
Full Flow Depth..... 1.50 ft
Velocity..... 6.39 fps
Flow Area..... 1.77 sf
Critical Depth..... 1.28 ft
Critical Slope..... 0.0092 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 11.30 cfs
QMAX @.94D..... 12.16 cfs
Froude Number..... FULL

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Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE N-O

Solve For Full Flow Slope

Given Input Data:
Diameter..... 1.25 ft
Manning's n..... 0.012
Discharge..... 13.70 cfs

Computed Results:
Full Flow Channel Slope..... 0.0383 ft/ft
Full Flow Depth..... 1.25 ft
Velocity..... 11.16 fps
Flow Area..... 1.23 sf
Critical Depth..... 1.23 ft
Critical Slope..... 0.0347 ft/ft
Percent Full..... 100.00 %
Full Capacity..... 13.70 cfs
QMAX @.94D..... 14.74 cfs
Froude Number..... FULL

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**APPROVED
DRAINAGE PLAN**



NOTES:
Proposed garage floor elevations are shown on plans. Contractor to set finish floor elevation.
32.0 W.O. = Walk Out Elevation
32.0 V.O. = View Out Elevation
All street elevations shown on plans are for top of curb (full height).

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE EXTERIOR			
LOT	9.14' W	(DIT) DATUM	W.S.
1-62	B	127.9	1215.3

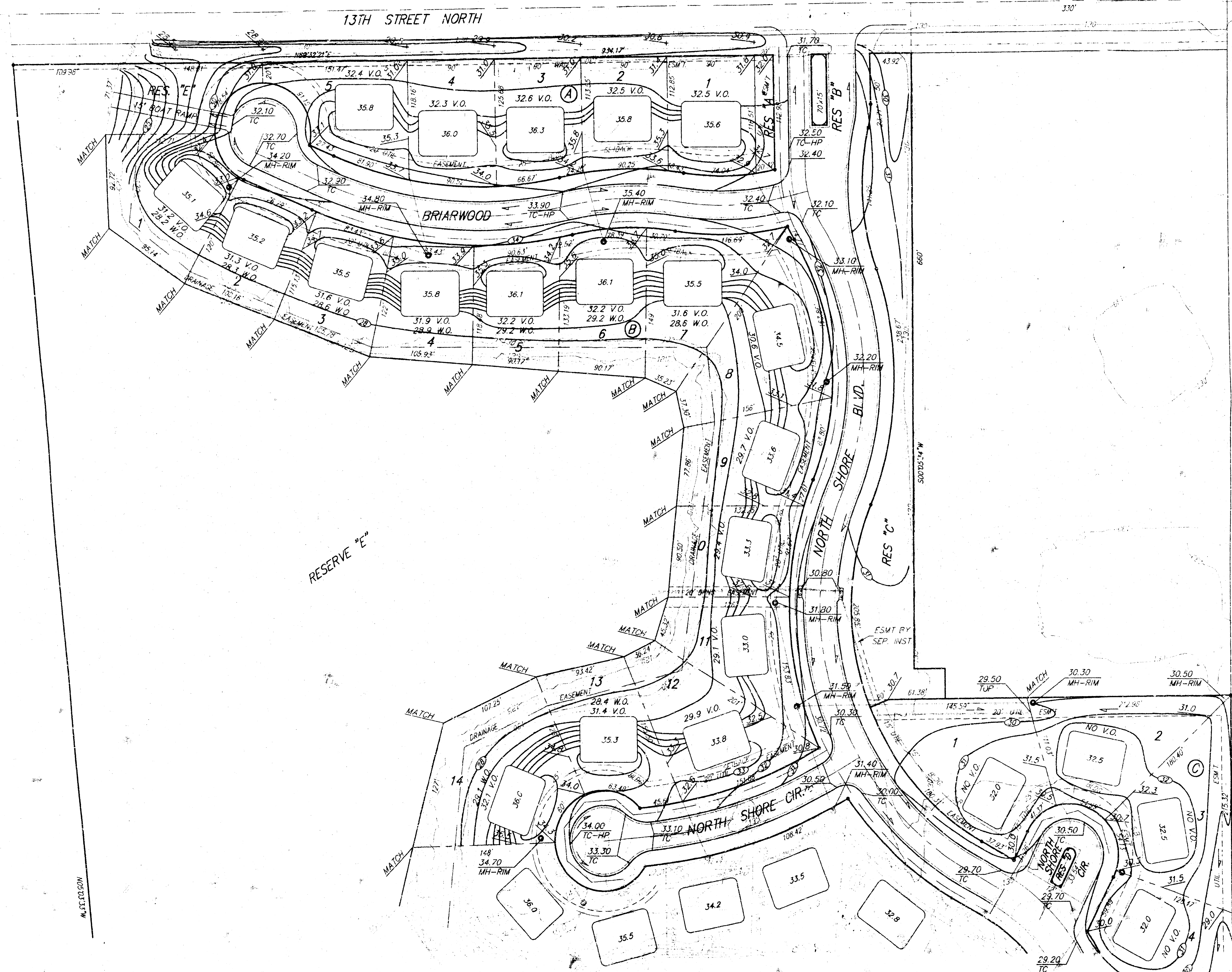
SPINNAKER COVES-HOSKINSON ADDITION
LOT GRADING PLAN

BAUCHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

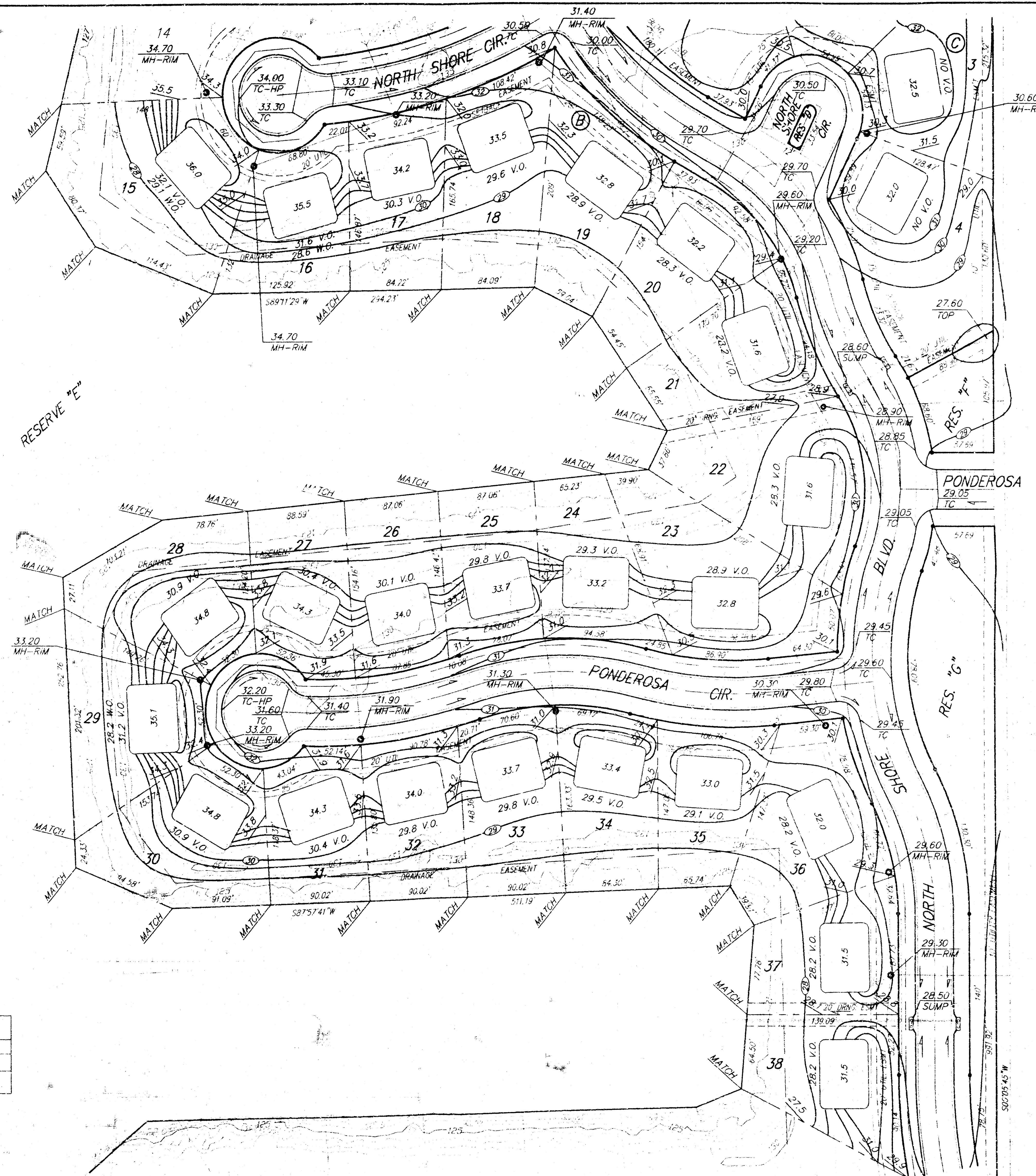
PROJECT NUMBER: _____

DESIGN: _____ DRAWN: _____ APPROVED: _____ DATE: 12-5-93 SCALE: 1"=50'

SHEET **1** OF **3**



NE. COR. NW1/4, SEC. 15,
TWP. 27-S, R-1-W



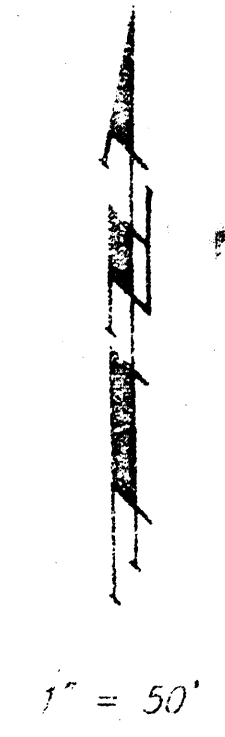
MINIMUM BUILDING FAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES			
LOT	BLOCK	(CITY DATUM)	M.S.L.
1-62	B	127.9	1315.3

NOTES:
Proposed garage floor elevations are shown on plans. Contractor to set finish floor elevation.

32.0 W.O. = Walk Out Elevation
32.0 V.O. = View Out Elevation

All street elevations shown on plans are for top of curb (full height).

SPINNAKER LOVESH-JACKSON ADDITION			
LOT GRADING PLAN			
BAUGHMAN COMPANY P.A. ENGINEERING, SURVEYING & PLANNING			
DESIGN	DATE	SCALE	SHEET
			2
			3

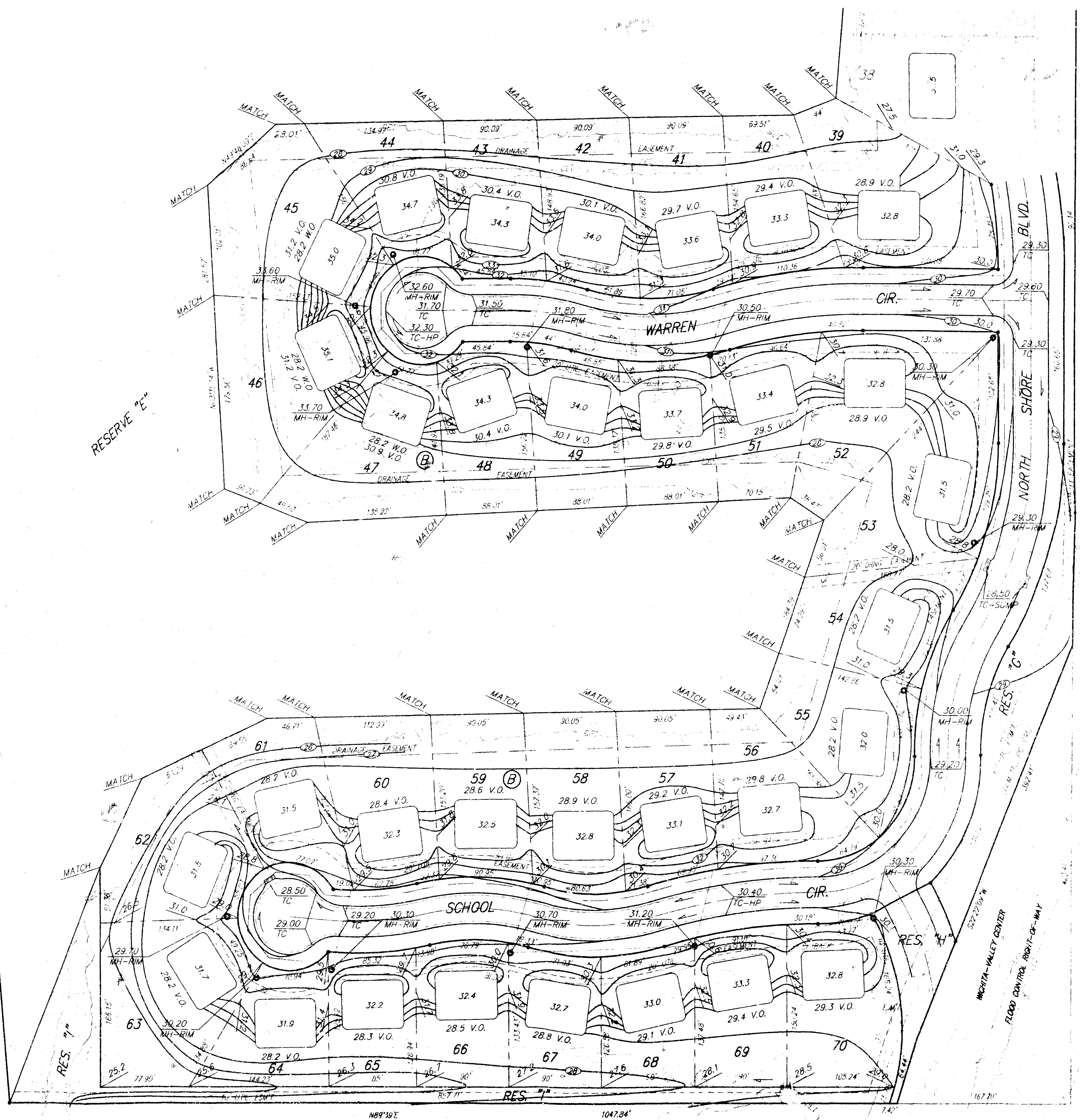


NOTE:
Proposed garage floor elevations are shown on plans. Contractor to set finish floor elevation.

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All street elevations shown on plans are for top of curb (full height).

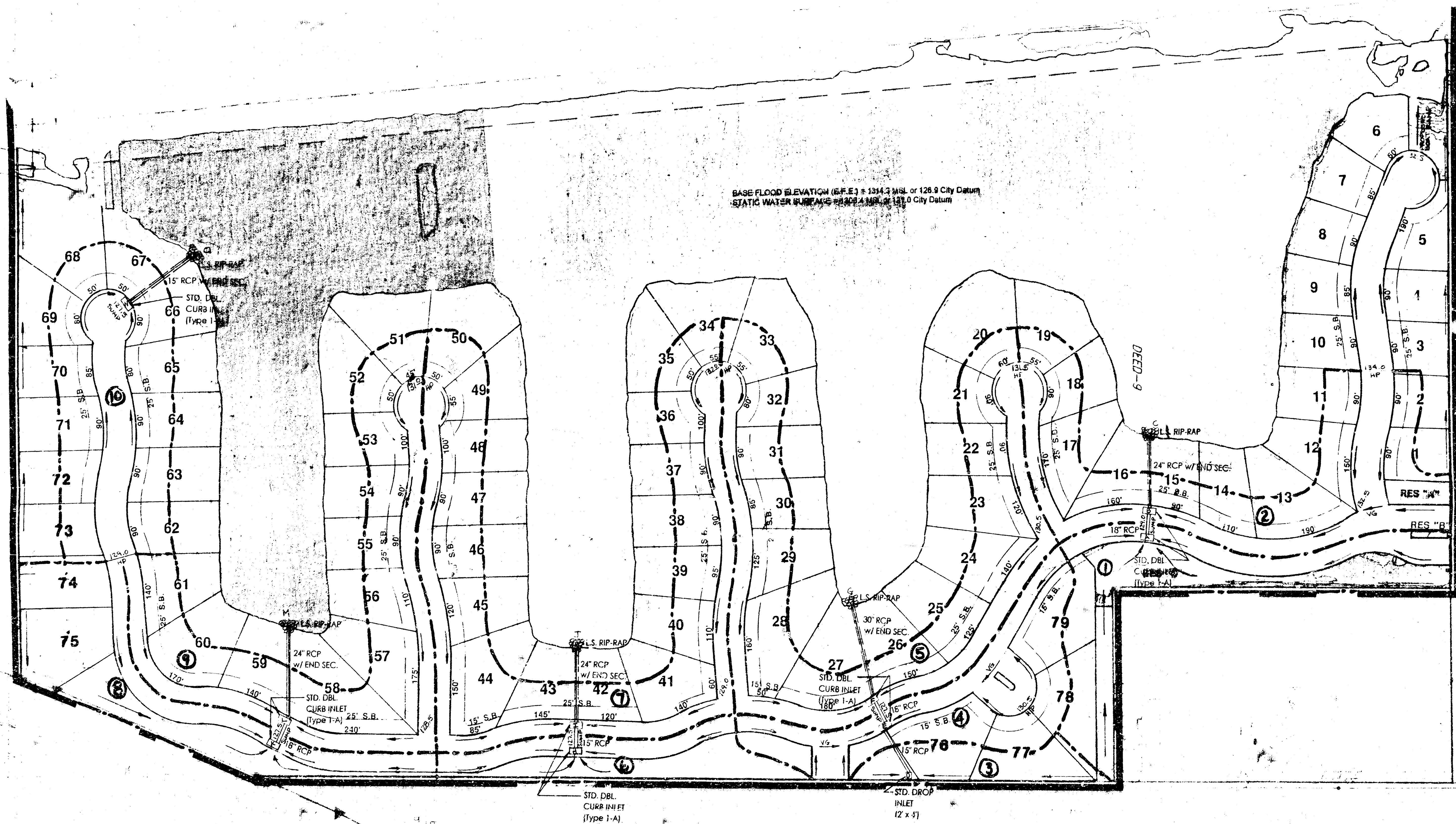
MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES			
LOT	BLOCK	(CITY DATUM) ELEV	M.S.L.
1-62	B	127.9	1315.3



LOT GRADING PLAN

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING & PLANNING

DESIGN	DRAWN	CHECKED	DATE	SHEET
				3



NOTES:

1. ALL DRAINAGE TO BE DISCHARGED INTO ADJACENT LAKE THROUGH STORM WATER SEWERS, FLUMES, OR OVERLAND FLOW.
2. MINIMUM PAD ELEVATIONS TO BE ESTABLISHED AS FOLLOWS:

LOTS 6 THROUGH 68 1318.0 MSL OR 128.6 City Datum
3. NO OFF-SITE DRAINAGE ENTERS THIS PLAT OTHER THAN THE BIG SLOUGH NORTH TRIBUTARY, WHICH ENTERS THE LAKE AT THE 1301 STREET BRIDGE.