

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

SUB AREA	AREA (ACRES)	"C"	SURFACE TYPE	SLOPE (%)	LENGTH (FT)	T1 (MIN)	T2 (MIN)	INTENSITY (INCHES/HR)	FLOW RATE (CFS)
1	1.9	0.50	LAWN	4.0	30	2.7	15.0	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	15.0	3.83	3.7
5	3.7	0.76	GUTTER	4.0	450	3.8	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	15.0	3.83	3.7
9	3.2	0.50	LAWN	4.0	30	2.7	15.0	3.83	3.7
10	2.4	0.50	LAWN	4.0	30	2.7	15.0	3.83	3.7

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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

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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 STRUCTURES			
LOT	9.14' W	(DIT) DATUM	W.S.
1-62	B	127.9	1215.3

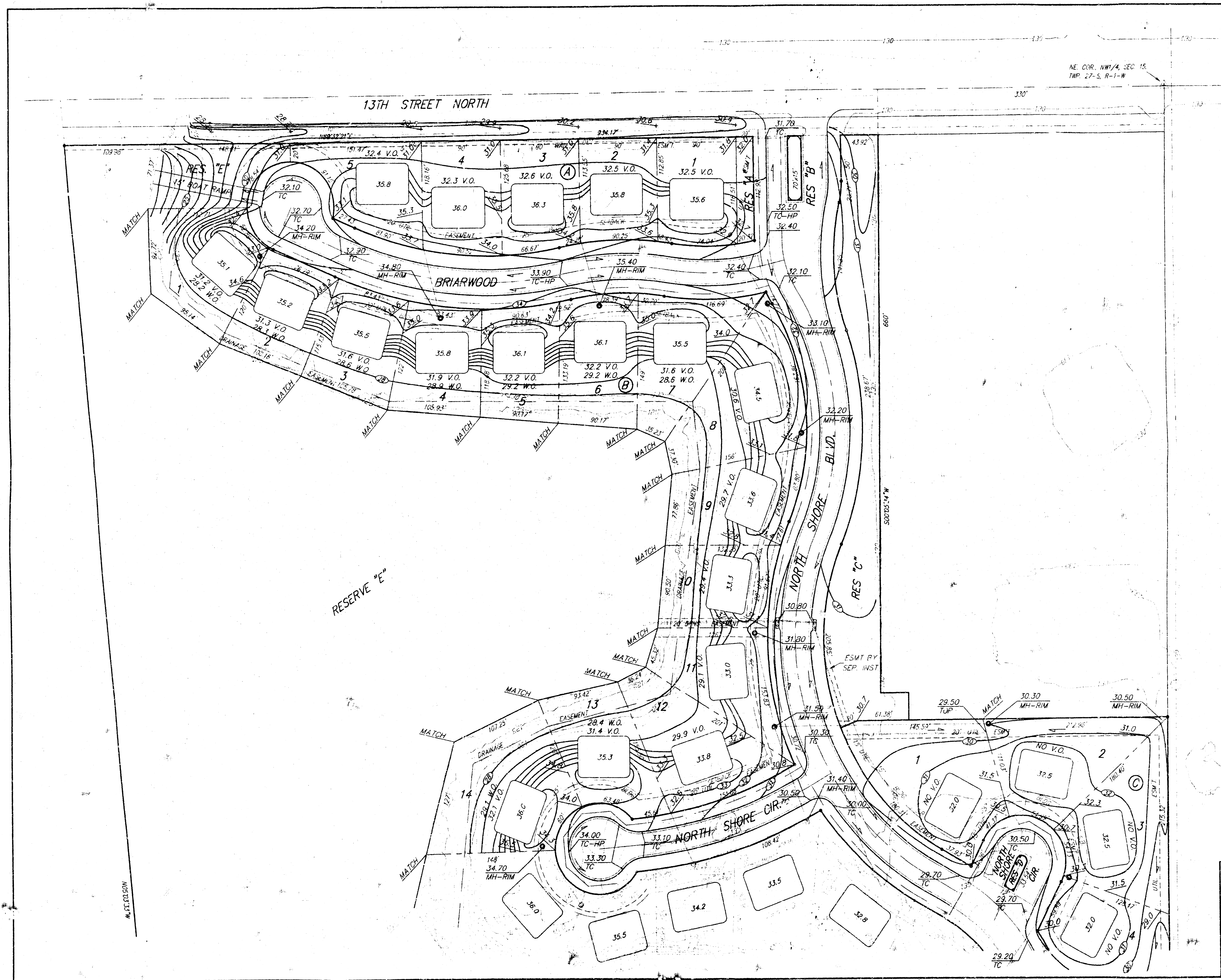
SPINNAKER COVES-HOSKINSON ADDITION
LOT GRADING PLAN

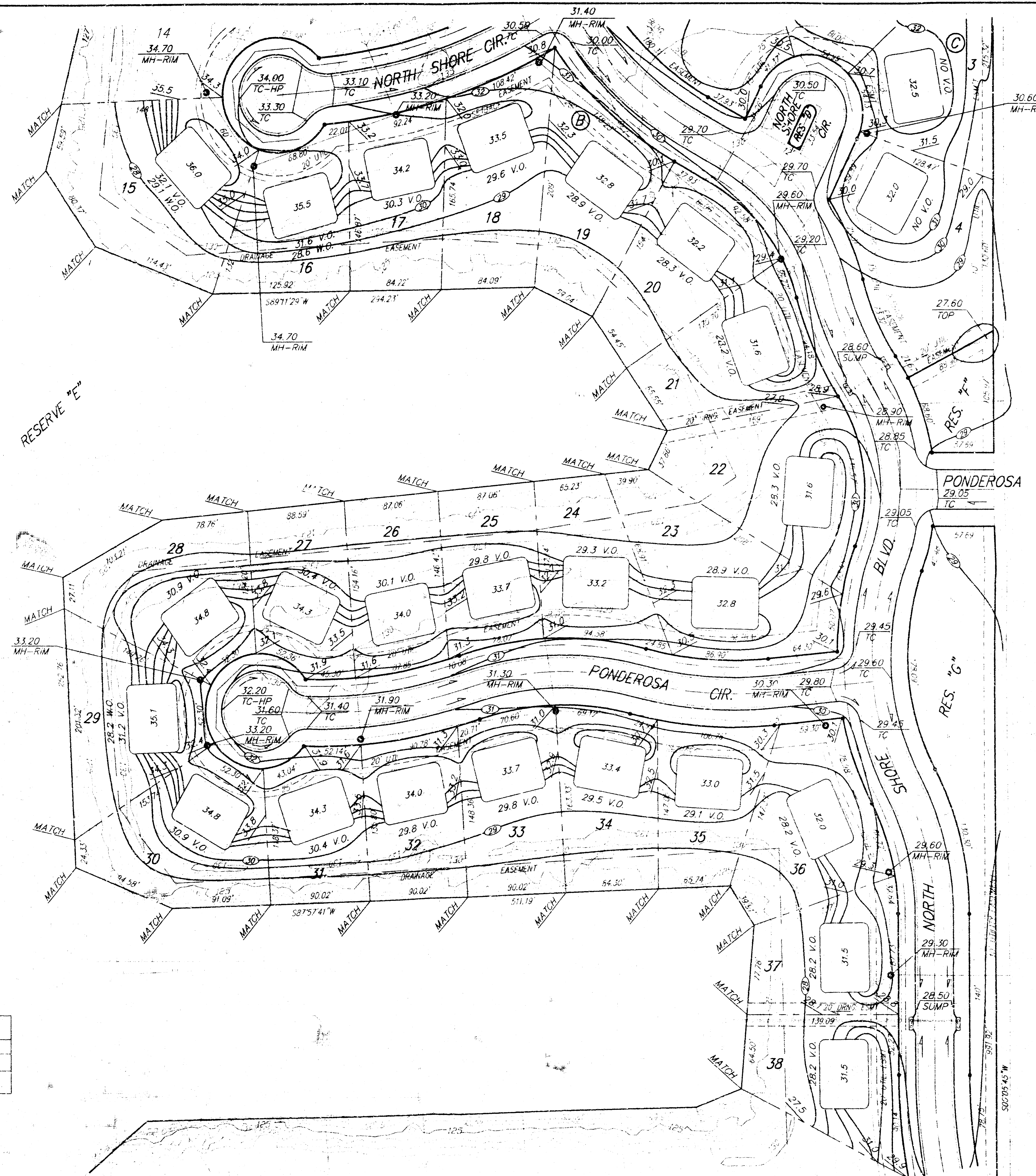
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

PROJECT NUMBER: _____

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

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





1" = 50'

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).

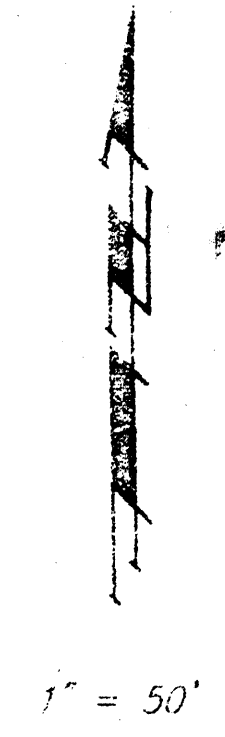
MINIMUM BUILDING FAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES			
LCT	BLOCK	(CITY DATUM)	M.S.L.
1-62	B	127.9	1315.3

SPINNAKER LOVESH-JACKSON ADDITION

LOT GRADING PLAN

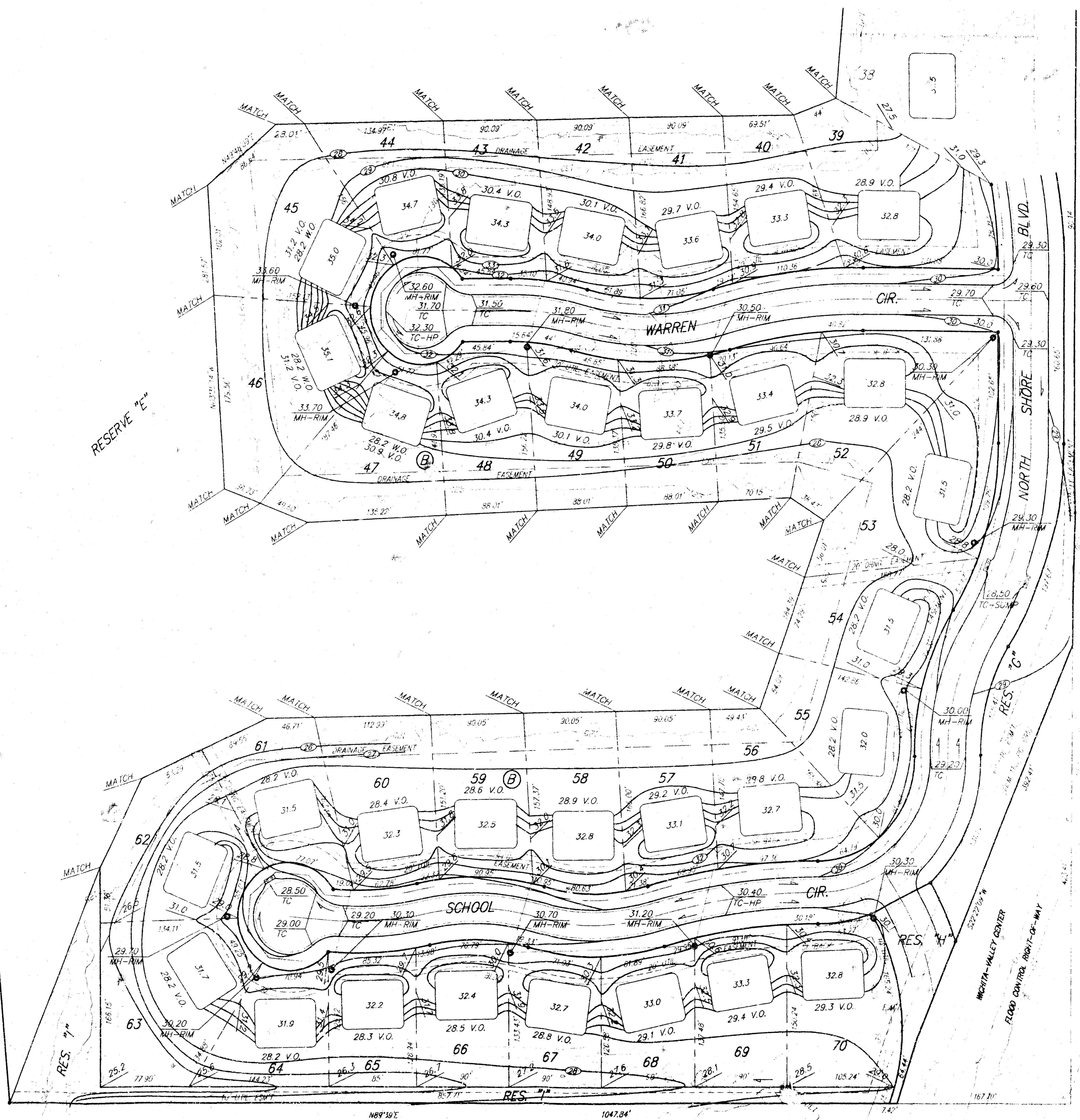
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING & PLANNING

DESIGN: [] DRAWN: [] APPROVED: [] DATE: [] SCALE: [] SHEET: **2** OF **3**



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

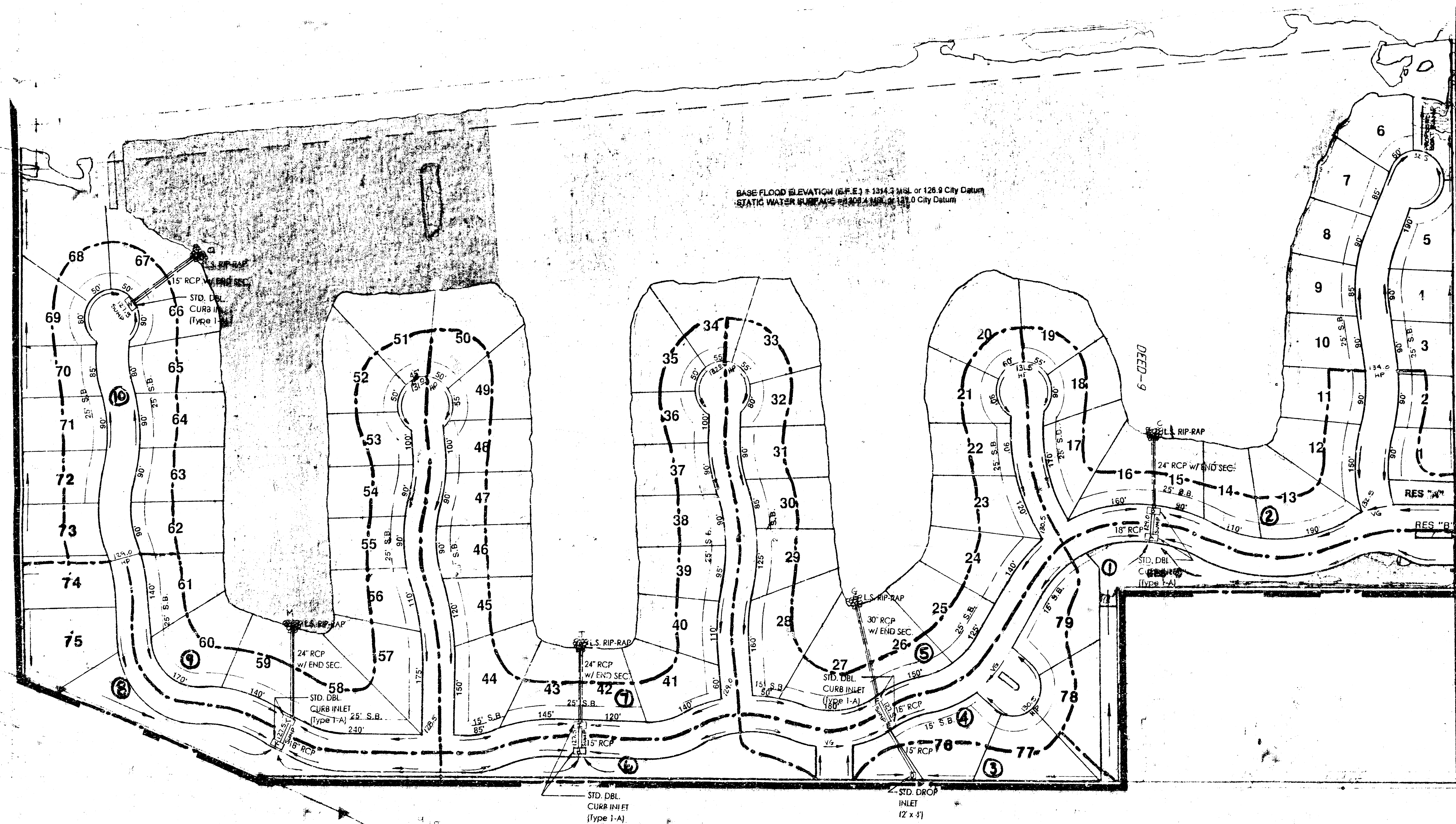
MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES			
LOT	BLOCK	(CITY DATUM) ELEV	M.S.L.
1-62	B	127.9	1315.3



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 13th STREET BRIDGE.