



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 10, 2003

Fred Arfman, PE
Isaacson & Arfman
128 Monroe NE
Albuquerque, NM 87108

**Re: Venice Business Center, Lot 7-A-1 Storm Drain Installation Plan and Profile
Engineer's Stamp dated 3-3-03, (B18/D7B)**

Dear Mr. Arfman,

Based upon the information provided in your submittal dated 3-3-03, the above referenced plan is approved to continue the Work Order requirements necessary to remove the temporary pond. Once that Work Order is issued, Building Permits for Buildings 1 and 4 can be addressed.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

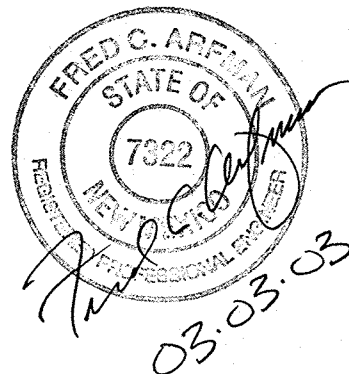
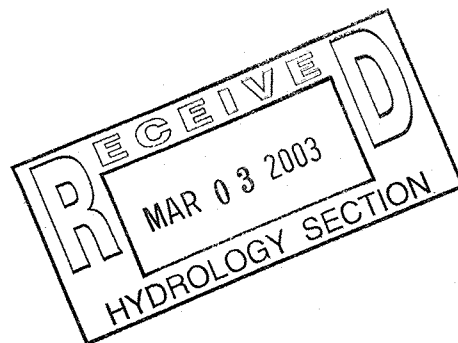
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VENICE BUSINESS PARK Worksheet for Circular Channel

Project Description	
Project File	m:\active\genny\haestad\fmw\1249.fm2
Worksheet	RCP OUTFALL
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data	
Mannings Coefficient	0.013
Channel Slope	0.005000 ft/ft
Discharge	4.50 cfs

Results	
Depth	14.9 in
Diameter	14.92 in
Flow Area	1.21 ft ²
Wetted Perimeter	3.91 ft
Top Width	0.00 ft
Critical Depth	0.86 ft
Percent Full	100.00
Critical Slope	0.007331 ft/ft
Velocity	3.71 ft/s
Velocity Head	0.21 ft
Specific Energy	FULL ft
Froude Number	FULL
Maximum Discharge	4.84 cfs
Full Flow Capacity	4.50 cfs
Full Flow Slope	0.005000 ft/ft



VENICE BUSINESS PARK Worksheet for Circular Channel

Project Description	
Project File	m:\active\genny\haestad\fmw\1249.fm2
Worksheet	RCP OUTFALL 17 CFS
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data	
Mannings Coefficient	0.013
Channel Slope	0.006000 ft/ft
Discharge	17.00 cfs

Results		
Depth	23.7	in
Diameter	23.73	in
Flow Area	3.07	ft ²
Wetted Perimeter	6.21	ft
Top Width	0.00	ft
Critical Depth	1.49	ft
Percent Full	100.00	
Critical Slope	0.007136	ft/ft
Velocity	5.54	ft/s
Velocity Head	0.48	ft
Specific Energy	FULL	ft
Froude Number	FULL	
Maximum Discharge	18.29	cfs
Full Flow Capacity	17.00	cfs
Full Flow Slope	0.006000	ft/ft

