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May 3, 2005

Mr. Douglas L. Mann, P. E.
Water Resources Engineer
City of Scottsdale, Water Resources
9388 East San Salvador Drive
Scottsdale, AZ 85258

Phone: (480) 312-5636
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Email: dmann@scottsdaleaz.gov

Re: **SEC Pinnacle Peak and Scottsdale Road 160-Acre Mixed Use Project**
General Plan Amendment - Preliminary Water Basis of Design
Scottsdale, Arizona
WP #042309.02

Dear Mr. Mann,

This Preliminary Water Basis of Design has been prepared to support the general plan amendment for the 160-acre parcel located at the southeast corner of Pinnacle Peak Road and Scottsdale Road, within the City of Scottsdale, Arizona. The parcel is also located at the northwest quarter of Section 14, Township 4 North, Range 4 East, of the Gila and Salt River Meridian. The mixed use project will be a phased development that proposes a maximum of 1,891 multi-family dwelling units, 799,200 square feet of retail/commercial area, and 675,300 square feet of office area, per the requested General Plan Amendment.

This professional civil engineering work product was prepared for RHVT Limited Partnership, Mr. Mike Pacheco, 602-230-1051, current owner of the 160 acres at the southeast corner of Pinnacle Peak Road and Scottsdale Road

Currently, the project area consists of *Rawhide*, a western theme park. On-site land slopes are generally in the southwesterly direction at approximately 2.5 percent; elevations range from 1,875-feet to 1,795-feet. Based on discussions with representatives of the City of Scottsdale Water Resources Department, the proposed development lies within the City of Scottsdale Water Pressure Zone 6W.

The proposed water system for the 160-acre mixed use project consists of 12-inch and 8-inch diameter ductile iron waterlines to loop through the interior roadways and connect to the existing public water infrastructure at eight (8) locations along the project boundaries. The hydraulic grade lines (HGL) of the existing public water infrastructure at the project boundaries fluctuate according to zone and pressure reducing valves, as explained by representatives of the City of Scottsdale Water Resources Department. As a result, four (4) pressure reducing valves (PRV's) are proposed within the project to maintain adequate on-site pressures and to allow looping between the existing public waterlines. The locations of the points of connection to the existing infrastructure, and the corresponding HGL's are described below. Please refer to the attached City of Scottsdale Water Resources facsimile for an illustration of the hydraulic boundary conditions.

- (2) connections to the 12" waterline along Pinnacle Peak Road (HGL=2,050')
- (2) connections to the 16" waterline along Miller Road (HGL=2,240')
- (2) connections to the 8" waterline along Williams Road (HGL=2,020')
- (2) connections to the 12" waterline along Scottsdale Road (HGL=2,020')



Mr. Douglas L. Mann
City of Scottsdale, Water Resources Dept.
SEC Pinnacle Peak and Scottsdale Road 160-Acre Mixed Use Project
General Plan Amendment - Preliminary Water Basis of Design
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Projected water demands were calculated using the City of Scottsdale's water demand criteria. The estimated maximum day demand for the proposed development totals 2,160 gallons per minute (gpm). This demand was put into 11 nodes on the site to represent the actual service locations. Attached are the results of the average-day, maximum-day, peak-hour, and maximum-day plus fire flow tests along with an exhibit that illustrates the specified node locations, pipe diameters, PRV's, and points of connection to the existing waterlines. The modeled results indicate that pressures during maximum day demands range from a 76.3-psi minimum to a 92.6-psi maximum, and fire flow rates of 1,500 gpm have been provided at pressures exceeding the 30-psi minimum.

Hydraulic modeling results, demand calculations, and exhibits involved in the water system analysis are also attached.

The Preliminary Water Basis of Design for the 160-acre mixed use project demonstrates the adequacy of the on-site water distribution system to serve the proposed 160-acre parcel, and has been prepared with our understanding of the City of Scottsdale's technical requirements for potable water systems and hydraulic boundary conditions.

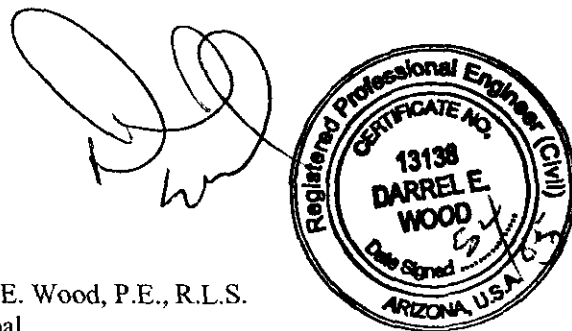
Wood/Patel believes that the modeled on-site water system will provide necessary system pressures, water supply, and fire flows within the previously-defined design criteria throughout the backbone water system, according to the hydraulic modeling results contained with the attachments for the full build-out condition, per the General Plan Amendment density.

Thank you for your review of our modeled water system for the Preliminary Water Basis of Design serving the 160-acre parcel at the southeast of Pinnacle Peak Road and Scottsdale Road.

If you have any questions, please feel free to contact us.

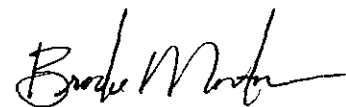
Sincerely,

WOOD, PATEL & ASSOCIATES, INC.



Darrel E. Wood, P.E., R.L.S.
Principal

DEW/km



Brooke Morton
E.I.T.

Attachments:

- Water Demand Calculations (1 page)
- Figure 4.3-1 (1 page)
- Exhibit 1 (1 page)
- City of Scottsdale Water Resources Facsimile (1 page)
- WaterCAD Results (10 pages)

WOOD/PATEL
Water Demand Calculations

CIVIL ENGINEERS • HYDROLOGISTS • LAND SURVEYORS • CONSTRUCTION MANAGERS

Project: SEC Pinnacle Peak and Scottsdale Road Mixed Land Use
 Location: City of Scottsdale, Arizona
 Date: 27-Apr-05
 References: City of Scottsdale Design Standards and Policy Manual

Project Number: 042309.02
 Project Engineer: Gordon Wark, P.E.

WATERCAD NODE	PARCEL	LAND USE	AREA OF CONTRIBUTING PARCEL (AC)	ELEV.	RESIDENTIAL		NON-RESIDENTIAL		AVERAGE DAY DEMAND		MAXIMUM DAY DEMAND		PEAK HOUR DEMAND	
					MULTI-FAMILY DWELLING UNITS ⁽¹⁾	ADD/ UNIT (GPD)	AREA (SQ.FT.) ⁽²⁾	ADD/ SQ.FT. (GPD)	(GPD)	(GPM)	(GPD)	(GPM)	(GPD)	(GPM)
J-10	A	Retail/Comm	6.1	1,828			213,000	0.9	191,700	133.1	383,400	266.3	670,950	465.9
J-20	A	Retail/Comm	6.1	1,847			213,000	0.9	191,700	133.1	383,400	266.3	670,950	465.9
J-30	No Demand			1,818										
J-40	D	Municipal	1.8											
J-40	B	Retail/Comm	2.7				93,300	0.9	83,970	58.3	167,940	116.6	293,895	204.1
J-40				1,822			93,300	0.9	83,970	58.3	167,940	116.6	293,895	204.1
J-50	B	Retail/Comm	2.7				93,300	0.9	83,970	58.3	167,940	116.6	293,895	204.1
J-50	D	Municipal	1.8											
J-50	E	Multi-Family	7.0		161	228			36,530	25.4	73,060	50.7	127,854	88.8
J-50	F	Multi-Family	2.4		56	228			12,670	8.8	25,339	17.6	44,344	30.8
J-60	No Demand			1,870										
J-70	E	Multi-Family	7.0		161	228			36,530	25.4	73,060	50.7	127,854	88.8
J-70	F	Multi-Family	2.4		56	228			12,670	8.8	25,339	17.6	44,344	30.8
J-70	G	Multi-Family	9.1		209	228			47,568	33.0	95,137	66.1	166,489	115.6
J-70	H	Multi-Family	5.2		121	228			27,464	19.1	54,927	38.1	96,123	66.8
J-80	No Demand			1,863										
J-90	No Demand			1,846										
J-100	H	Multi-Family	5.2		121	228			27,464	19.1	54,927	38.1	96,123	66.8
J-100	I	Multi-Family	9.1		208	228			47,341	32.9	94,682	65.8	165,693	115.1
J-110	B	Retail/Comm	2.7				93,300	0.9	83,970	58.3	167,940	116.6	293,895	204.1
J-110	F	Multi-Family	2.4		56	228			12,670	8.8	25,339	17.6	44,344	30.8
J-110	H	Multi-Family	5.2		121	228			27,464	19.1	54,927	38.1	96,123	66.8
J-120	B	Retail/Comm	2.7				93,300	0.9	83,970	58.3	167,940	116.6	293,895	204.1
J-120	I	Multi-Family	9.1		208	228			47,341	32.9	94,682	65.8	165,693	115.1
J-130	C	Office	12.9	1,805			337,650	0.6	202,590	140.7	405,180	281.4	709,065	492.4
J-140	C	Office	12.9				337,650	0.6	202,590	140.7	405,180	281.4	709,065	492.4
J-140	I	Multi-Family	9.1		208	228			47,341	32.9	94,682	65.8	165,693	115.1
J-150	No Demand			1,806										
J-160	I	Multi-Family	9.1	1,814	208	228			47,341	32.9	94,682	65.8	165,693	115.1
Total			135		1,891		1,474,500		1,554,852	1,080	3,109,703	2,160	5,441,981	3,779

Notes:

- (1) Multi-family dwelling units is the maximum allowable dwelling units
 (2) Area of non-residential land use is the maximum allowable building area in square feet

Average Day Water Demand Per Dwelling Unit in GPD*

Land Use	Inside Use	Outside Use	Total Use
Residential < 2 DU per acre	208.90	278.70	485.60
Residential 2 - 3.99 DU per acre	183.70	278.70	470.50
Residential 3 - 7.99 DU per acre	175.90	72.90	248.20
Residential 8 - 11.99 DU per acre	155.30	72.90	227.80
Residential 12 - 22 DU per acre	155.30	72.90	227.60
Resort Hotel (per room)	401.70	44.60	446.40
Resort Hotel Low Intensity (per room)	401.70	35.70	437.40
Commercial (per square foot)	0.75	0.11	0.90 ^{††}
Cultural/Institutional (per acre)	669.50	669.50	1339.10
Office (per square foot)	0.50	0.075	0.60 ^{††}
Industrial (per acre)	878.10	154.40	1027.50
Utility (per acre)	0.00	1785.40	1785.40
Open Natural (per acre)	0.00	0.00	0.00
Open Developed (per acre)	0.00	1785.40	1785.40
Open Golf (per acre)	0.00	4285.00	4285.00

*City of Sonoma's Water Supply - Distribution Map Plan, June 1987, Prepared by NBS/Lowry Engineers & Planners.

††City of Phoenix Memorandum Water Demand and Wastewater Flow Generation Rates, April 1965.

FIGURE 4.1-3
Average Day Water Demand Per Dwelling Unit in GPD

Scenario: Average Day Demand
Steady State Analysis
Junction Report

Label	Elevation (ft)	Zone	Demand (Calculated) (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-10	1,828	Zone 6W	133.1	2,020	83.1
J-20	1,847	Zone 6W	133.1	2,050	87.8
J-30	1,818	Zone 6W	0.0	2,020	87.4
J-40	1,822	Zone 6W	58.3	2,020	85.6
J-50	1,840	Zone 6W	92.5	2,020	77.8
J-60	1,870	Zone 6W	0.0	2,050	77.9
J-70	1,855	Zone 6W	86.3	2,020	71.4
J-100	1,838	Zone 6W	51.9	2,020	78.7
J-110	1,837	Zone 6W	86.2	2,020	79.1
J-120	1,817	Zone 6W	91.2	2,020	87.8
J-130	1,805	Zone 6W	140.7	2,020	92.9
J-140	1,810	Zone 6W	173.6	2,020	90.8
J-150	1,806	Zone 6W	0.0	2,020	92.6
J-160	1,814	Zone 6W	32.9	2,020	89.1

Scenario: Average Day Demand
Steady State Analysis
Pipe Report

Label	Diameter (in)	Length (ft)	Material	Hazen- Williams C	Discharge (gpm)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-20	12	438	Ductile Iron	130.0	236.1	0.1	0.18	0.7
P-30	8	840	Ductile Iron	130.0	17.7	0.0	0.01	0.1
P-70	8	442	Ductile Iron	130.0	56.2	0.0	0.09	0.4
P-80	12	761	Ductile Iron	130.0	81.9	0.0	0.02	0.2
P-90	8	1,244	Ductile Iron	130.0	-51.3	0.1	0.07	0.3
P-100	8	236	Ductile Iron	130.0	-163.4	0.2	0.64	1.0
P-110	8	1,180	Ductile Iron	130.0	31.3	0.0	0.03	0.2
P-120	8	931	Ductile Iron	130.0	-48.4	0.1	0.07	0.3
P-130	8	564	Ductile Iron	130.0	-26.4	0.0	0.02	0.2
P-140	12	770	Ductile Iron	130.0	-138.4	0.1	0.06	0.4
P-150	8	842	Ductile Iron	130.0	89.4	0.2	0.21	0.6
P-160	12	810	Ductile Iron	130.0	70.7	0.0	0.02	0.2
P-170	8	652	Ductile Iron	130.0	61.4	0.1	0.10	0.4
P-180	12	20	Ductile Iron	130.0	287.0	0.0	0.26	0.8
P-190	12	20	Ductile Iron	130.0	202.6	0.0	0.13	0.6
P-200	16	20	Ductile Iron	130.0	70.4	0.0	0.00	0.1
P-210	16	20	Ductile Iron	130.0	76.8	0.0	0.00	0.1
P-220	8	20	Ductile Iron	130.0	-64.2	0.0	0.12	0.4
P-230	8	20	Ductile Iron	130.0	163.4	0.0	0.64	1.0
P-240	12	20	Ductile Iron	130.0	236.1	0.0	0.18	0.7
P-250	12	20	Ductile Iron	130.0	-20.8	0.0	0.00	0.1
P-260	12	795	Ductile Iron	130.0	-153.9	0.1	0.08	0.4
P-270	12	65	Ductile Iron	130.0	-153.9	0.0	0.08	0.4
P-280	12	73	Ductile Iron	130.0	202.6	0.0	0.13	0.6
P-290	12	616	Ductile Iron	130.0	202.6	0.1	0.13	0.6
P-300	8	81	Ductile Iron	130.0	70.4	0.0	0.14	0.4
P-310	8	619	Ductile Iron	130.0	70.4	0.1	0.13	0.4
P-320	8	97	Ductile Iron	130.0	76.8	0.0	0.16	0.5
P-330	8	639	Ductile Iron	130.0	76.8	0.1	0.16	0.5

Scenario: Average Day Demand
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Initial Valve Status	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
PRV-1	1,845	8	Active	Throttling	153.9	2,050	2,020	30
PRV-2	1,868	8	Active	Throttling	202.6	2,050	2,020	30
PRV-3	1,863	6	Active	Throttling	70.4	2,240	2,020	220
PRV-4	1,845	6	Active	Throttling	76.8	2,240	2,020	220

Scenario: Maximum Day Demand
Steady State Analysis
Junction Report

Label	Elevation (ft)	Zone	Demand (Calculated) (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-10	1,828	Zone 6W	266.3	2,020	83.1
J-20	1,847	Zone 6W	266.3	2,050	87.8
J-30	1,818	Zone 6W	0.0	2,020	87.4
J-40	1,822	Zone 6W	116.6	2,020	85.5
J-50	1,840	Zone 6W	185.0	2,020	77.7
J-60	1,870	Zone 6W	0.0	2,050	77.9
J-70	1,855	Zone 6W	172.5	2,020	71.3
J-100	1,838	Zone 6W	103.9	2,020	78.6
J-110	1,837	Zone 6W	172.4	2,020	79.0
J-120	1,817	Zone 6W	182.4	2,020	87.7
J-130	1,805	Zone 6W	281.4	2,019	92.6
J-140	1,810	Zone 6W	347.1	2,019	90.6
J-150	1,806	Zone 6W	0.0	2,020	92.6
J-160	1,814	Zone 6W	65.8	2,020	89.1

Scenario: Maximum Day Demand
Steady State Analysis
Pipe Report

Label	Diameter (in)	Length (ft)	Material	Hazen- Williams C	Discharge (gpm)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-20	12	438	Ductile Iron	130.0	505.4	0.3	0.72	1.4
P-30	8	840	Ductile Iron	130.0	49.7	0.1	0.07	0.3
P-70	8	442	Ductile Iron	130.0	109.7	0.1	0.30	0.7
P-80	12	761	Ductile Iron	130.0	136.8	0.0	0.06	0.4
P-90	8	1,244	Ductile Iron	130.0	-103.4	0.3	0.27	0.7
P-100	8	236	Ductile Iron	130.0	-335.0	0.6	2.41	2.1
P-110	8	1,180	Ductile Iron	130.0	80.8	0.2	0.17	0.5
P-120	8	931	Ductile Iron	130.0	-87.0	0.2	0.20	0.6
P-130	8	564	Ductile Iron	130.0	-48.3	0.0	0.07	0.3
P-140	12	770	Ductile Iron	130.0	-247.8	0.1	0.19	0.7
P-150	8	842	Ductile Iron	130.0	178.0	0.6	0.75	1.1
P-160	12	810	Ductile Iron	130.0	161.2	0.1	0.09	0.5
P-170	8	652	Ductile Iron	130.0	115.6	0.2	0.34	0.7
P-180	12	20	Ductile Iron	130.0	421.4	0.0	0.51	1.2
P-190	12	20	Ductile Iron	130.0	377.3	0.0	0.42	1.1
P-200	16	20	Ductile Iron	130.0	130.0	0.0	0.01	0.2
P-210	16	20	Ductile Iron	130.0	132.8	0.0	0.01	0.2
P-220	8	20	Ductile Iron	130.0	-146.6	0.0	0.52	0.9
P-230	8	20	Ductile Iron	130.0	335.0	0.0	2.41	2.1
P-240	12	20	Ductile Iron	130.0	505.4	0.0	0.71	1.4
P-250	12	20	Ductile Iron	130.0	111.2	0.0	0.04	0.3
P-260	12	795	Ductile Iron	130.0	-155.1	0.1	0.08	0.4
P-270	12	65	Ductile Iron	130.0	-155.1	0.0	0.08	0.4
P-280	12	73	Ductile Iron	130.0	377.3	0.0	0.42	1.1
P-290	12	616	Ductile Iron	130.0	377.3	0.3	0.42	1.1
P-300	8	81	Ductile Iron	130.0	130.0	0.0	0.42	0.8
P-310	8	619	Ductile Iron	130.0	130.0	0.3	0.42	0.8
P-320	8	97	Ductile Iron	130.0	132.8	0.0	0.44	0.8
P-330	8	639	Ductile Iron	130.0	132.8	0.3	0.43	0.8

Scenario: Maximum Day Demand
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Initial Valve Status	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
PRV-1	1,845	8	Active	Throttling	155.1	2,050	2,020	30
PRV-2	1,868	8	Active	Throttling	377.3	2,050	2,020	30
PRV-3	1,863	6	Active	Throttling	130.0	2,240	2,020	220
PRV-4	1,845	6	Active	Throttling	132.8	2,240	2,020	220

Scenario: Peak Hour Demand
Steady State Analysis
Junction Report

Label	Elevation (ft)	Zone	Demand (Calculated) (gpm)	Calculated Hydraulic Grade (ft)	Pressure (psi)
J-10	1,828	Zone 6W	465.9	2,020	83.1
J-20	1,847	Zone 6W	465.9	2,050	87.8
J-30	1,818	Zone 6W	0.0	2,020	87.4
J-40	1,822	Zone 6W	204.1	2,019	85.3
J-50	1,840	Zone 6W	323.7	2,019	77.4
J-60	1,870	Zone 6W	0.0	2,050	77.9
J-70	1,855	Zone 6W	302.0	2,019	71.1
J-100	1,838	Zone 6W	181.8	2,019	78.5
J-110	1,837	Zone 6W	301.6	2,019	78.7
J-120	1,817	Zone 6W	319.2	2,019	87.3
J-130	1,805	Zone 6W	492.4	2,017	91.8
J-140	1,810	Zone 6W	607.5	2,018	90.1
J-150	1,806	Zone 6W	0.0	2,020	92.5
J-160	1,814	Zone 6W	115.1	2,020	89.1

Scenario: Peak Hour Demand
Steady State Analysis
Pipe Report

Label	Diameter (in)	Length (ft)	Material	Hazen- Williams C	Discharge (gpm)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)
P-20	12	438	Ductile Iron	130.0	898.9	0.9	2.08	2.6
P-30	8	840	Ductile Iron	130.0	92.7	0.2	0.22	0.6
P-70	8	442	Ductile Iron	130.0	190.4	0.4	0.85	1.2
P-80	12	761	Ductile Iron	130.0	226.9	0.1	0.16	0.6
P-90	8	1,244	Ductile Iron	130.0	-181.3	1.0	0.77	1.2
P-100	8	236	Ductile Iron	130.0	-590.0	1.6	6.87	3.8
P-110	8	1,180	Ductile Iron	130.0	148.8	0.6	0.54	0.9
P-120	8	931	Ductile Iron	130.0	-148.2	0.5	0.53	0.9
P-130	8	564	Ductile Iron	130.0	-82.8	0.1	0.18	0.5
P-140	12	770	Ductile Iron	130.0	-421.0	0.4	0.51	1.2
P-150	8	842	Ductile Iron	130.0	311.1	1.8	2.10	2.0
P-160	12	810	Ductile Iron	130.0	291.1	0.2	0.26	0.8
P-170	8	652	Ductile Iron	130.0	198.8	0.6	0.92	1.3
P-180	12	20	Ductile Iron	130.0	627.1	0.0	1.06	1.8
P-190	12	20	Ductile Iron	130.0	648.3	0.0	1.14	1.8
P-200	16	20	Ductile Iron	130.0	222.9	0.0	0.04	0.4
P-210	16	20	Ductile Iron	130.0	223.4	0.0	0.04	0.4
P-220	8	20	Ductile Iron	130.0	-263.9	0.0	1.55	1.7
P-230	8	20	Ductile Iron	130.0	590.0	0.1	6.87	3.8
P-240	12	20	Ductile Iron	130.0	898.9	0.0	2.08	2.6
P-250	12	20	Ductile Iron	130.0	304.7	0.0	0.28	0.9
P-260	12	795	Ductile Iron	130.0	-161.2	0.1	0.09	0.5
P-270	12	65	Ductile Iron	130.0	-161.2	0.0	0.09	0.5
P-280	12	73	Ductile Iron	130.0	648.3	0.1	1.14	1.8
P-290	12	616	Ductile Iron	130.0	648.3	0.7	1.14	1.8
P-300	8	81	Ductile Iron	130.0	222.9	0.1	1.13	1.4
P-310	8	619	Ductile Iron	130.0	222.9	0.7	1.13	1.4
P-320	8	97	Ductile Iron	130.0	223.4	0.1	1.14	1.4
P-330	8	639	Ductile Iron	130.0	223.4	0.7	1.14	1.4

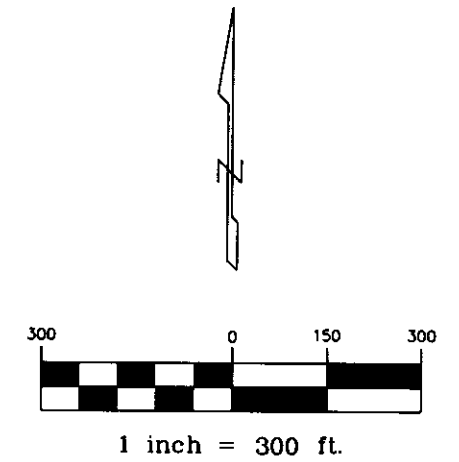
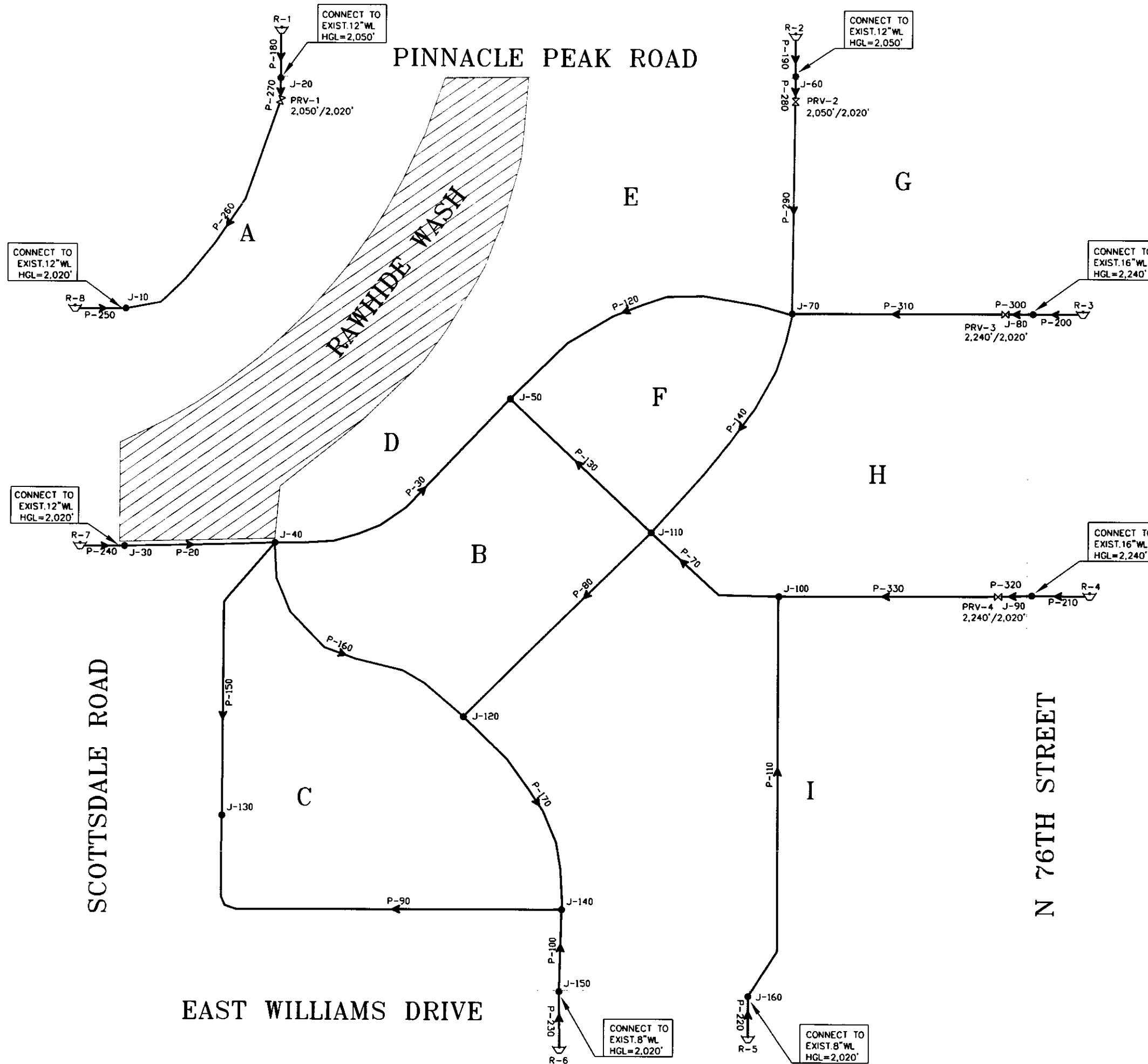
Scenario: Peak Hour Demand
Steady State Analysis
Valve Report

Label	Elevation (ft)	Diameter (in)	Initial Valve Status	Control Status	Discharge (gpm)	From HGL (ft)	To HGL (ft)	Headloss (ft)
PRV-1	1,845	8	Active	Throttling	161.2	2,050	2,020	30
PRV-2	1,868	8	Active	Throttling	648.3	2,050	2,020	30
PRV-3	1,863	6	Active	Throttling	222.9	2,240	2,020	220
PRV-4	1,845	6	Active	Throttling	223.4	2,240	2,020	220

Scenario: Maximum Day Demand + Fire Flow
Fire Flow Analysis
Fire Flow Report

Label	Elevation (ft)	Zone	Satisfies Fire Flow Constraints?	Needed Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Pressure (psi)	Calculated Hydraulic Grade (ft)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-10	1,828	Zone 6W	true	1,500.0	1,766.3	1,866.3	83.1	2,020	83.0	71.3	J-70
J-20	1,847	Zone 6W	true	1,500.0	1,766.3	1,866.3	87.8	2,050	87.7	71.3	J-70
J-30	1,818	Zone 6W	true	1,500.0	1,500.0	1,600.0	87.4	2,020	87.3	71.3	J-70
J-40	1,822	Zone 6W	true	1,500.0	1,616.6	1,716.6	85.5	2,020	84.8	71.1	J-70
J-50	1,840	Zone 6W	true	1,500.0	1,685.0	1,785.0	77.7	2,020	75.0	70.9	J-70
J-60	1,870	Zone 6W	true	1,500.0	1,500.0	1,600.0	77.9	2,050	77.8	71.3	J-70
J-70	1,855	Zone 6W	true	1,500.0	1,672.5	1,772.5	71.3	2,020	70.7	77.2	J-50
J-100	1,838	Zone 6W	true	1,500.0	1,603.9	1,703.9	78.6	2,020	76.7	71.1	J-70
J-110	1,837	Zone 6W	true	1,500.0	1,672.4	1,772.4	79.0	2,020	78.2	70.9	J-70
J-120	1,817	Zone 6W	true	1,500.0	1,682.4	1,782.4	87.7	2,020	86.6	71.0	J-70
J-130	1,805	Zone 6W	true	1,500.0	1,781.4	1,881.4	92.6	2,019	84.9	71.1	J-70
J-140	1,810	Zone 6W	true	1,500.0	1,847.1	1,947.1	90.6	2,019	88.3	71.2	J-70
J-150	1,806	Zone 6W	true	1,500.0	1,500.0	1,600.0	92.6	2,020	92.1	71.3	J-70
J-160	1,814	Zone 6W	true	1,500.0	1,565.8	1,665.8	89.1	2,020	88.8	71.3	J-70

EXHIBIT 1
CONCEPTUAL WATER SYSTEM
SEC PINNACLE PEAK AND SCOTTSDALE ROAD
160-ACRE MIXED USE PROJECT



LEGEND

- 8" WATER
- 12" WATER
- PROJECT BOUNDARY
- A PARCEL ID

NOTE: THE LOCATION AND SIZES OF THESE WATER LINES ARE A CONCEPTUAL DESIGN AND SHOULD NOT BE USED FOR CONSTRUCTION.

WOOD/PATEL

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