

Owner:  
**TKS Trust**

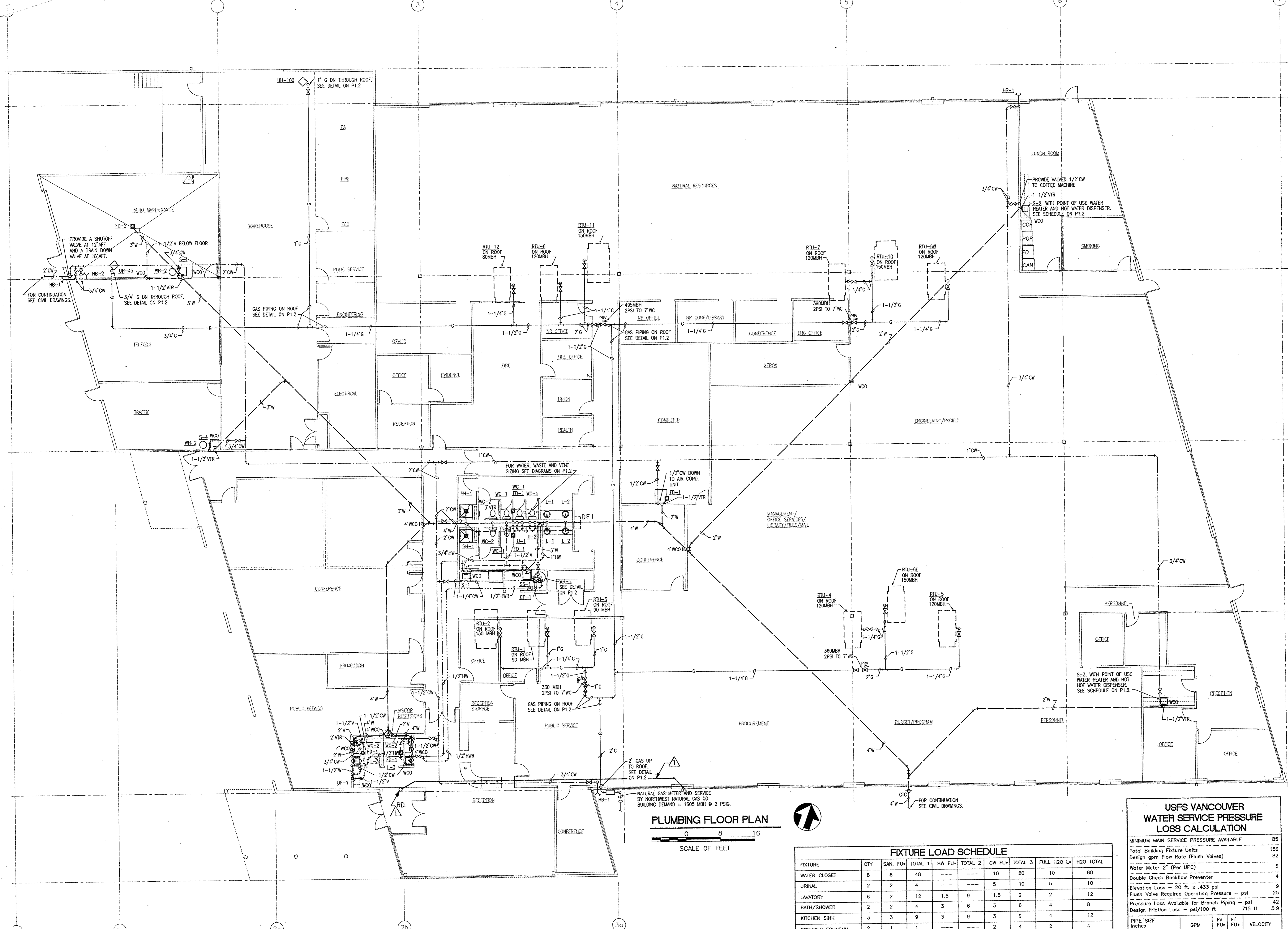
9950 SW Arctic Drive  
Beaverton, OR 97005

Project:  
**Proposal for GSA**

Sheet Title:  
**Plumbing Floor Plan**

Revisions:

Date: **March 1, 1996**  
Drawn by: **Checked by:**  
JOB **CMH**  
Job Number: **94174**  
SDC Job Number: **06979**  
Sheet **of**



**PLUMBING FLOOR PLAN**  
SCALE OF FEET  
0 8 16

**NOTES**  
▲ RAIN DRAIN FROM ROOF TO EXTEND UNDER SLAB OVER TO SITE STORM.

FIXTURE LOAD SCHEDULE									
FIXTURE	QTY	SAN. FU*	TOTAL 1	HW FU*	TOTAL 2	CW FU*	TOTAL 3	FULL H2O L4	H2O TOTAL
WATER CLOSET	8	6	48	---	10	80	10	10	80
URINAL	2	2	4	---	5	10	5	10	10
LAVATORY	6	2	12	1.5	9	1.5	9	2	12
BATH/SHOWER	2	2	4	3	6	3	6	4	8
KITCHEN SINK	3	3	9	3	9	3	9	4	12
DRINKING FOUNTAIN	2	1	1	---	2	4	2	4	4
SINK	2	3	6	3	6	3	6	4	8
SERVICE SINK	1	3	3	3	3	3	3	4	4
HOSE BIBB	4	---	---	---	5	20	5	20	20
FLOOR DRAIN	4	2	8	---	---	---	---	---	---
TOTAL	---	---	95	---	33	---	145	---	158

\* FROM 1991 UNIFORM PLUMBING CODE

USFS VANCOUVER WATER SERVICE PRESSURE LOSS CALCULATION			
MINIMUM MAIN SERVICE PRESSURE AVAILABLE	85		
Total Building Fixture Units	156		
Design gpm Flow Rate (Flush Valves)	82		
Water Meter 2" (Per UPC)	5		
Double Check Backflow Preventer	4		
Elevation Loss - 20 ft. x .433 psi	9		
Flush Valve Required Operating Pressure - psi	25		
Pressure Loss Available for Branch Piping - psi	42		
Design Friction Loss - psi/100 ft	715 ft 5.9		
PIPE SIZE inches	GPM	FV FU*	VELOCITY
1/2"	3.5	- 3	4
3/4"	7.5	- 9	5
1"	14	- 20	5
1-1/4"	29	12 51	6
1-1/2"	42	31 95	7
2"	87	176 305	8