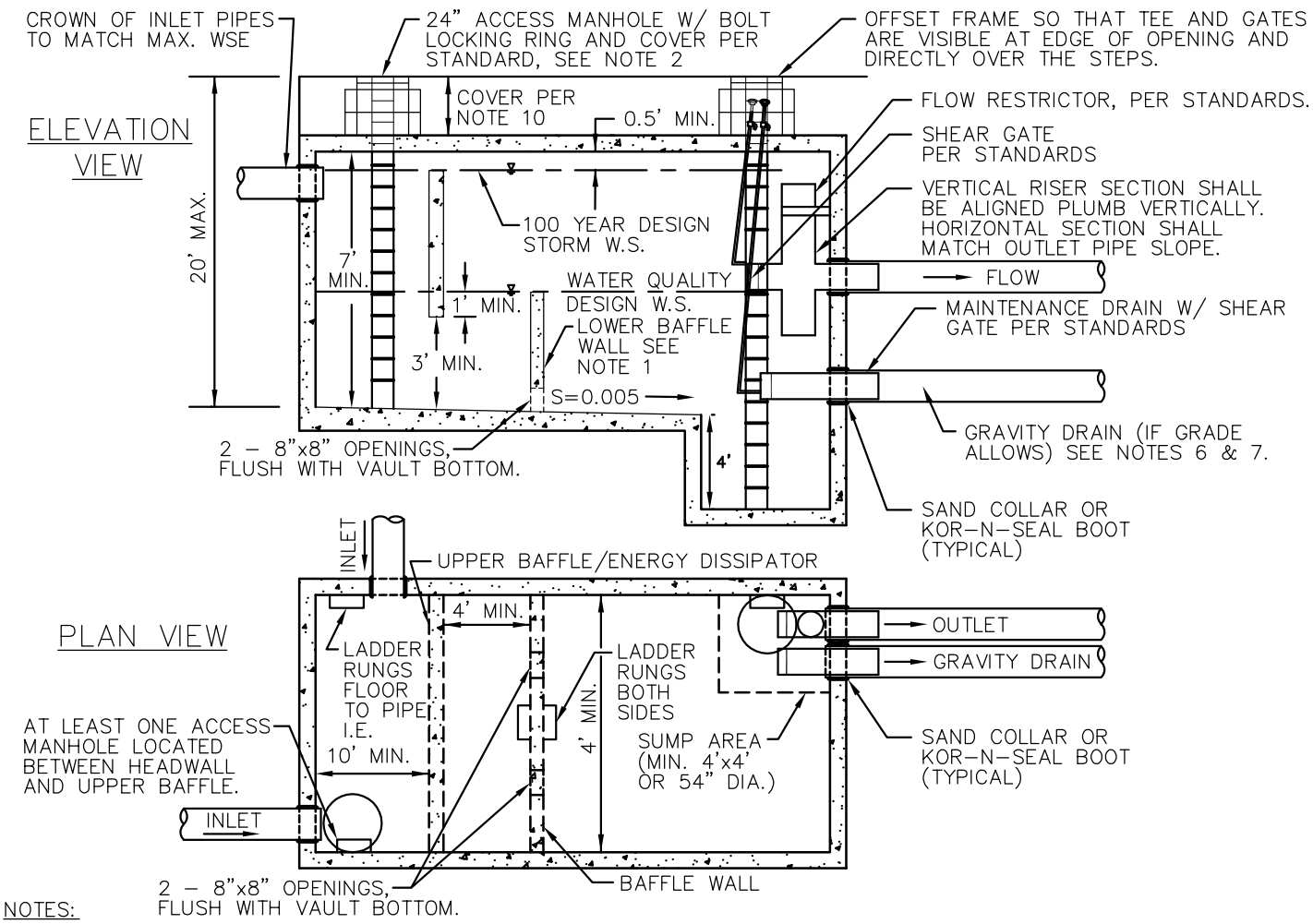

NOTES:

1. LOWER BAFFLE WALL TO DIVIDE VAULT INTO TWO APPROXIMATELY EQUAL SIZE CELLS. UPPER BAFFLE SET AT 25% OF VAULT SURFACE AREA (10' MINIMUM FROM HEADWALL.)
2. MINIMUM ONE ACCESS MANHOLE PER CELL WITH AT LEAST ONE ACCESS PER 50' VAULT LENGTH OR WIDTH.
3. PROVIDE WATER STOP AT ALL CAST-IN-PLACE CONSTRUCTION JOINTS. PRE-CAST VAULTS SHALL HAVE APPROVED RUBBER GASKET SYSTEM.
4. VAULT SHALL BE DESIGNED AND STAMPED BY A REGISTERED STRUCTURAL ENGINEER. VAULT SHALL BE DEISGNED FOR HS-20 TRAFFIC LOADINGS, MINIMUM.
5. ALL METAL PARTS SHALL BE CORROSION RESISTANT.
6. GRAVITY DRAIN SHOULD BE SIZED TO EMPTY VAULT IN 4 HOURS.
7. PUMP STANDPIPE REQUIRED IF VAULT IS NOT EQUIPPED WITH GRAVITY DRAIN. TO ENABLE VAULT TO BE DRAINED FOR MAINTENANCE OPERATIONS, ONE STANDPIPE IS REQUIRED FOR EVERY 35,000 CF OF DEAD STORAGE. SEE SUMP WITH RISER PIPE DETAIL.
8. PROVIDE LADDER RUNGS IMMEDIATELY ADJACENT TO ALL INLET/OUTLET PIPES.
9. ALL INLETS MUST DISCHARGE UPSTREAM OF UPPER BAFFLE.
10. IF PROPOSED COVER IS GREATER THAN 1', THEN IT MUST BE 2.5' MINIMUM AND ACCESS MUST BE 48" ECCENTRIC CONE, SET OVER 24" DIAMETER ACCESS OPENING.
11. ALL PIPES SHALL BE PERPENDICULAR TO FACE OF VAULT.
12. APPLY NON-SHRINK GROUT TO INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, RISER AND FRAMES.
13. PENETRATE CARRIER PIPE THROUGH VAUL WALL.
14. USE APPROVED WATERTIGHT STRUCTURE ADAPTOR.
15. SLIP SMOOTH-BORE HORIZONTAL LEG OF FLOW CONTROL TEE INSIDE CARRIER PIPE.
16. NO FLOW CONTROL JOINT OUTSIDE OF STRUCTURE.
17. PRIOR TO STARTUP, COMBINED VAULT (DETENTION AND RUNOFF TREATMENT) SHALL PASS 1% PER DAY LEAK TEST WHERE A MAXIMUM OF 1% WATER LOSS IS ALLOWED WITHIN A 24-HOUR PERIOD WITH VAULT FILLED TO 2-YEAR STORM ELEVATION TEST PER THE 2009 UNIFORM PLUMBING CODE 712.2.

JANUARY 2014 NO SCALE

City of Bellevue

STORM AND SURFACE WATER UTILITY

TITLE

COMBINED VAULT (DETENTION AND RUNOFF TREATMENT)

NO. D-48