BERGER FOUNTAIN MECHANICAL ROOM

Loring Park, Minneapolis

Dunwoody College of Technology

Studio 5



Fountain podium has severe leakage, bricks breaking, electrical failing and dangerous. Plywood enclosure has not experienced break-in or graffiti; occasionally stones are tossed by passerbys over the top and damage the light fixtures inside.







Metal trap door is located next to fountain podium Needs replacement





Mechanical Room under fountain.

Fountain stem above

Structural sound to carry weight: 53.5 tons of water; plywood enclosure = 1.2 tons

36-inch reservoir holds recycled water

\$60,000 water bill every 3 months

Fountain basis above leaks "like a shower" below









Access door 20" x 36"



253 "stems" require cleaning to ensure proper fountain spray





Spray nozzle is inserted into stem head

Underwater light fixtures

















Plywood enclosure is installed prior to removing fountain "arms"; since it takes two – three days to remove the "arms".

NOTE: Plywood enclosure used to extend 4-feet taller to hide fountain.





PLYWOOD ENCLSOURE:

Size: 20-feet wide x 15-feet tall

Weight: 30 sheets 4x8 1/2" CDX = 960 sqft = \$900 = 1,218 lbs 840 lineal feet of 2x4 = \$245 = 1,075 lbs 75 bolts = 15 lbs

Total Enclosure = 2,308 lbs or **1.15 tons** Water = 12,818 gallons top podium Water weight = 106,906 lbs = **53.5 tons**



F-750 / 18 Ton





Installation of Plywood enclosure:

- Crane
- 6 laborers
- 4 days, not including washing/maintenance on fountain stems/arms
- Approx 253 stems
- Stems are stored in basement of Community Center
- Plywood frames stored off-site





Bucket trucks owned by Minneapolis Park & Recreation Board.

Used for tree management and street/path lighting repair and lamp replacement