PROJECT TEAM

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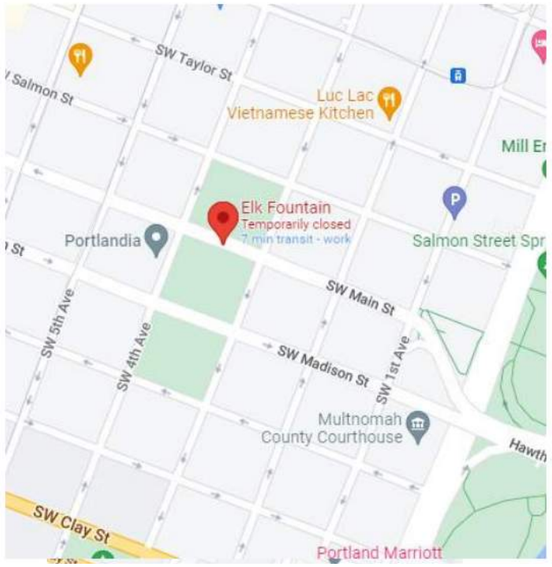

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Thompson Elk Fountain

COVER SHEET

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How we got here:
A private/public partnership

- **JULY 2020:** After weeks of civil unrest across the city, particularly downtown, RACC and Portland Water Bureau remove Thompson Elk Fountain for safe-keeping.
- **AUGUST 30, 2020:** William Hawkins writes OregonLive op-ed arguing for restoration/return and makes first donation to PPF. Others follow.
- **SPRING, 2022:** PPF, OMF and the multiple city bureaus with a stake in the elk explore options for return. PPF identifies donor to fund a feasibility study.
- **MAY 11, 2022:** City Council passes resolution to fully restore and return the elk fountain to historic location. PPF hires ARG to develop feasibility study and cost estimate.
- **OCTOBER, 2022**: Completed feasibility study provides 30% design/engineering and construction cost estimate of $1.5 million.
- **SPRING, 2023:** To accelerate return, PPF proposes deal: PPF completes 100% contract design/engineering documents; City completes construction
- **MAY, 2023:** City Council passes 2023/24 budget with $1.5m for restoration and return; taps PWB to lead construction. With $160,000 from 62 private donors, PPF/ARG begin work on contract drawings
- **FALL, 2023:** PPF/ARG/PWB complete 60% contract drawings and refined cost estimate.
- **DECEMBER 11, 2023:** Historic Landmarks Commission information session,
- **DECEMBER 13:** City Council considers budget appropriation for construction

Design Objectives

• Restore, rehabilitate, and reinstall Fountain in original Location.
• Seismically stabilize statue and add recirculating pump.
• A new concrete foundation will be constructed in the original foundation location.
• The fountain is decorative, and non-interactive.
• Two existing light poles will be painted and new lighting provided at the existing light poles.

The original Thompson Elk fountain is designated a local Historic Landmark. Work shall comply with the Secretary of the Interior's standards for Treatment of historic Properties.

Civic Objectives

Position the Thompson Elk Fountain's return as a unifying civic gesture.

Helpful Context Facts

• Metering and recirculating this fountain will help the Bureau be in compliance with regulations set by DWR which require meters on all service points and to seek opportunities to increase water efficiency.
• The Elk Fountain will use 2.4 x as much water as the Skidmore Fountain, 4.8 x more than Jameson, and 19.7 x more than the Salmon Springs Fountain.

New Pump and Vault Information

• Provide (1) 3' deep x 4' wide x 4' long stainless steel vault buried in the street with recirculating pump. See plan for vault location.
• Provide all new plumbing to connect existing utilities to fountain.
• Provide electrical box on existing adjacent light pole.
• Provide backflow preventer utility box in adjacent park.

Estimated Water Savings from Recirculating Pump

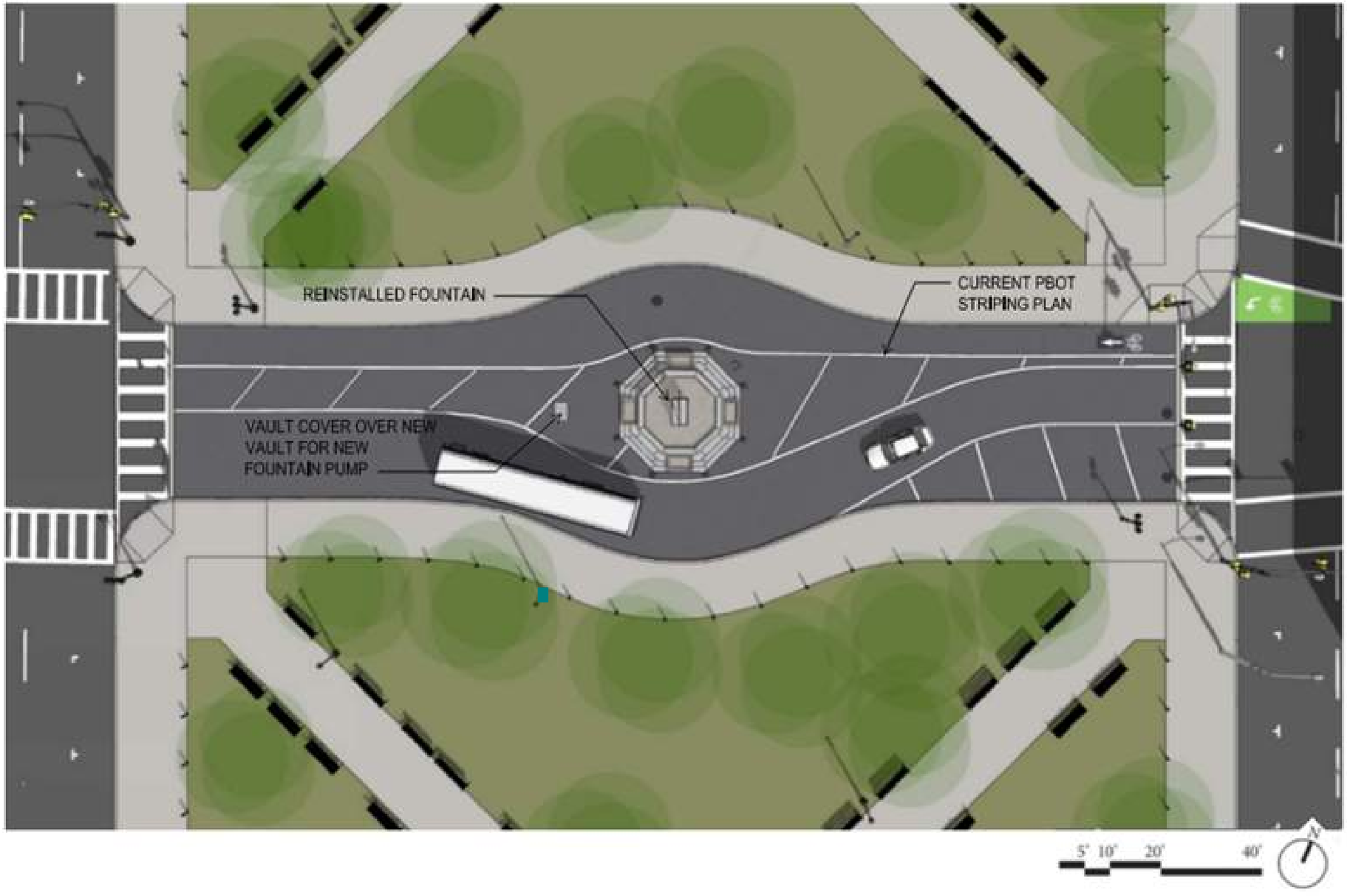
• Estimated Water Savings from Recirculating Pump:
  • 13 gallons per minute (per measurement by magnetic sensor in 2012)
  • 13 GPM x 60 minutes = 780 gallons per hour
  • 780 gallons per hour x 24 hours = 18,720 gallons per day
    note: above number does not account for waste due to evaporation, splashing, maintenance change out / cleaning, etc. which is estimated at approx. 10-25 gallons per day (varies)
  • 18,720 gallons per day x 365 days = 6,832,800 gallons per year

Cost Considerations

• Total water savings at approx. $32,000 for 6 months
  Assumes fountain is in use half year; then shut off for six months.
  Savings doubles if in use full year
  Savings based on estimated usage rate of 1.1 gallons per penny
• Total sewer cost savings approx. $5,000 / year
• Water use is equivalent to approximately 146 single family homes per year / or 406 residential customers

Archival Photo c. 1900

Archival Photo c. 1900 - 1905



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SITE PLAN

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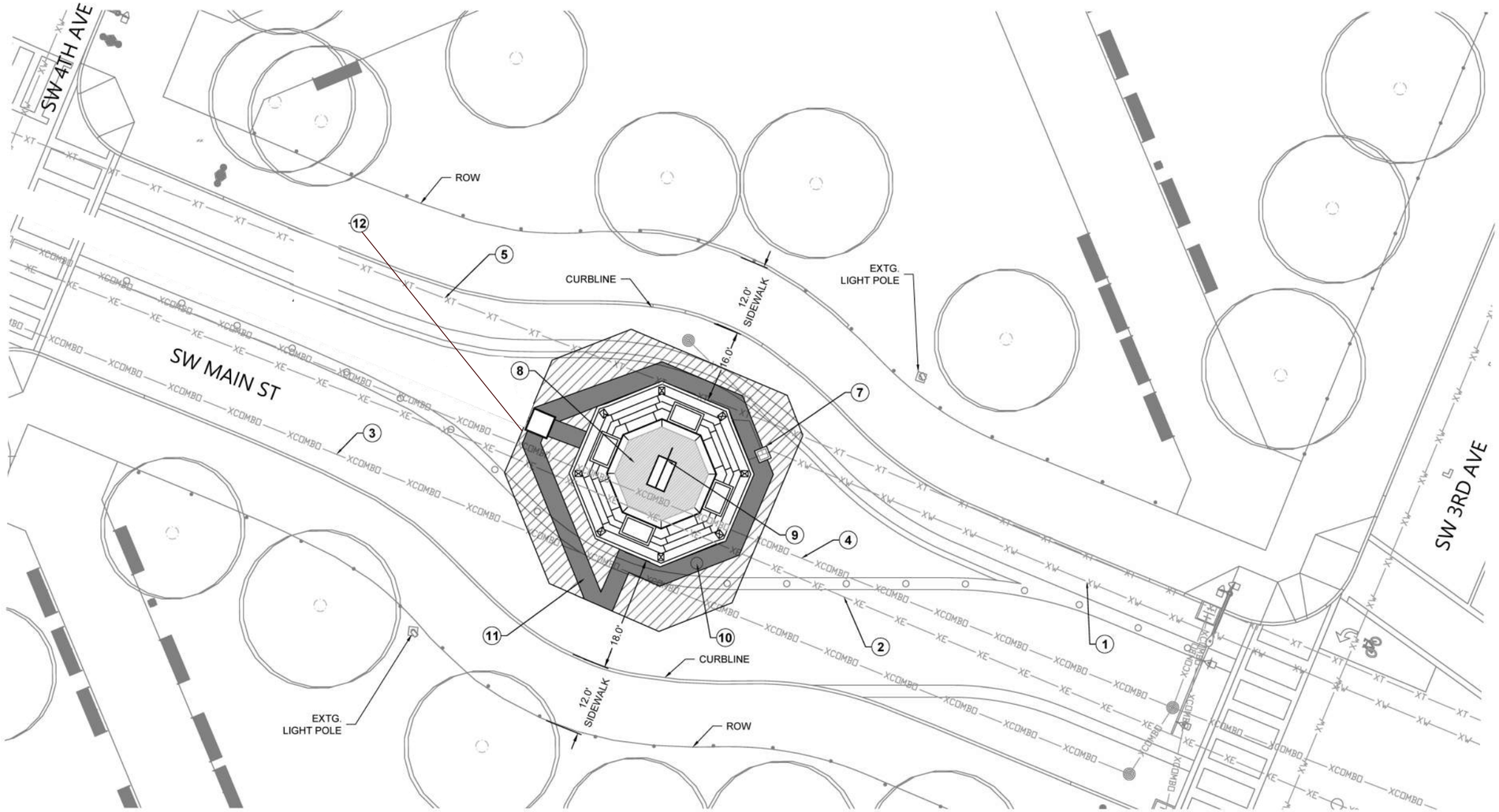

GENERAL NOTES:

1. EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE BASED ON SEARCH OF AVAILABLE RECORDS AND INFORMATION PROVIDED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING UTILITY LOCATIONS, DEPTHS, AND SIZES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. FOR RECIRCULATING PUMP VAULT, PROVIDE TRAFFIC RATED DIAMOND PLATE DOUBLE DOOR ALUMINUM LID WITH SPRING LOADED HINGES & AN INSET LOCKING LATCH. MFR: FOUNTAIN SUPPLY COMPANY OR APPROVED EQUAL (661-254-4448).
5. REINFORCE THE RECIRCULATING PUMP VAULT WITH STRUTS AT SIDES TO HANDLE COMPACTION. PROVIDE STAINLESS STEEL COUPLINGS WELDED IN PLACE WHERE PIPING & ELECTRICAL ENTERS THE VAULT.
6. SEE DWG E5.00 FOR ELECTRICAL CONNECTION DETAILS FOR RECIRCULATING PUMP VAULT.
7. PROVIDE 8" COMPACTED AGGREGATE BASE GRAVEL ABOVE COMPACTED FILL BELOW RE-CIRCULATING PUMP VAULT. PROVIDE ¼" MINUS GRAVEL BETWEEN THE VAULT WALLS & EXCAVATION.
8. BED ALL PIPING IN ¼" MINUS GRAVEL. INSTALL APPROPRIATELY LABELED UTILITIES (ELECTRICAL, SEWER, POTABLE WATER) WITH DETECTABLE WARNING TAPE IN TRENCHES.
9. PROVIDE 8" WIDE X 14" DEEP CONCRETE CURB AROUND THE VAULT PERIMETER WITH ONE #4 BAR AT CENTER OF CURB. SET TOP OF CURB LEVEL WITH TOP OF ADJACENT ASPHALT PAVEMENT.
10. ALL ELECTRICAL INSTALLATIONS SHALL BE LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OR RECORDED EASEMENT FOR THE CITY OF PORTLAND ELECTRICAL EQUIPMENT.

N

10' 0 5' 10' 20'

SCALE: 1" = 10'

CONSTRUCTION NOTES

1. PROTECT EXISTING 4" WATER LINE AT ASSUMED DEPTH OF 3'.
2. PROTECT EXISTING 33" ELECTRICAL LINE AT ASSUMED DEPTH OF 7.9'.
3. PROTECT EXISTING 12" COMBO STORM SEWER LINE AT ASSUMED DEPTH OF 9.2'.
4. PROTECT EXISTING 30" COMBO STORM SEWER LINE AT ASSUMED DEPTH OF 24'.
5. PROTECT EXISTING TELECOMMUNICATIONS LINE; DEPTH UNKNOWN.
6. CONSTRUCT CUSTOM FABRICATED 4' x 4' x 3' DEEP STAINLESS STEEL VAULT FOR RECIRCULATING PUMP AND ASSOCIATED ELECTRICAL EQUIPMENT.
7. CONNECT FOUNTAIN WATER LINE TO EXISTING 2" WATER GATE VALVE. SEE PLUMBING DWG FOR CONNECTION DETAILS.
8. REMOVE AND REPLACE FOUNDATION BASE AND FOOTINGS BELOW. SEE ARCHITECTURAL DWG FOR DEMOLITION DETAILS.
9. PLACE ELK SCULPTURE ON TOP OF PEDESTAL. SEE STRUCTURAL DWGS FOR STATUE PLACEMENT DETAILS.
10. PROTECT EXISTING STORM DRAIN. SEE PLUMBING DWGS FOR PIPE CONNECTION DETAILS.
11. 3 ' WIDTH TRENCH FOR PROPOSED UTILITY INSTALLATION. SEE PLUMBING DWG FOR PLUMBING AND CONNECTION DETAILS.
12. 3' WIDTH TRENCH FOR PROPOSED ELECTRICAL LINE. SEE ELECTRICAL DWGS FOR ELECTRICAL DETAILS.

LEGEND

- XCOMBO — COMBO SEWER LINE
- XT — TELECOMMUNICATION LINE
- XW — WATER LINE
- XE — ELECTRICAL LINE
- STORM INLET
- TREE TRUNK
- EXISTING LIGHT POLE
- EXISTING MAINTENANCE HOLE
- PIPE TRENCH AREA
- 2" GRIND AND INLAY

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CIVIL PLAN

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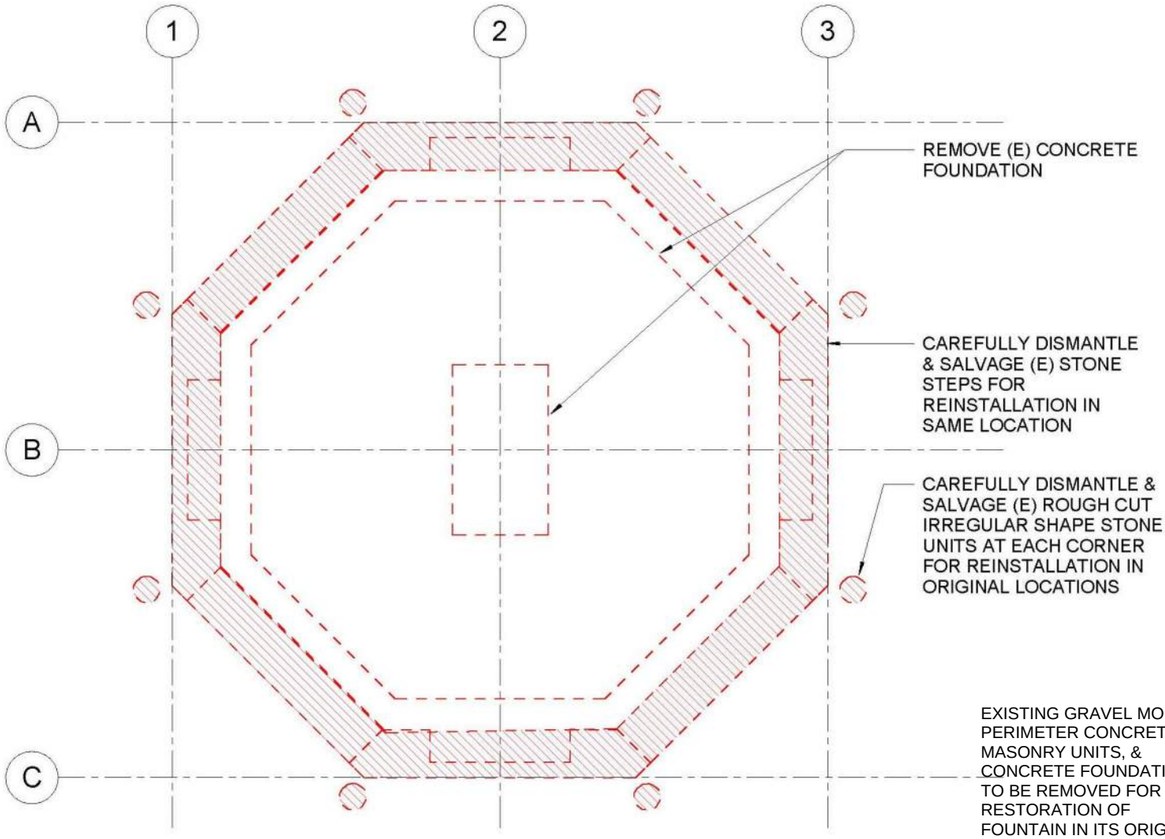

Demo Plan

Existing Site

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DEMO PLAN

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Beaver's Head Water Spout

Cougar's Head Water Spout

ARG performed an in-depth survey of Elk Fountain's tone units that survived, assessing their condition and developing 3d scans of every piece to model reassembly.

Overall View of Salvaged Stone Units

Detail of Salvaged Stone Basin Wall Unit

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STONE SURVEY

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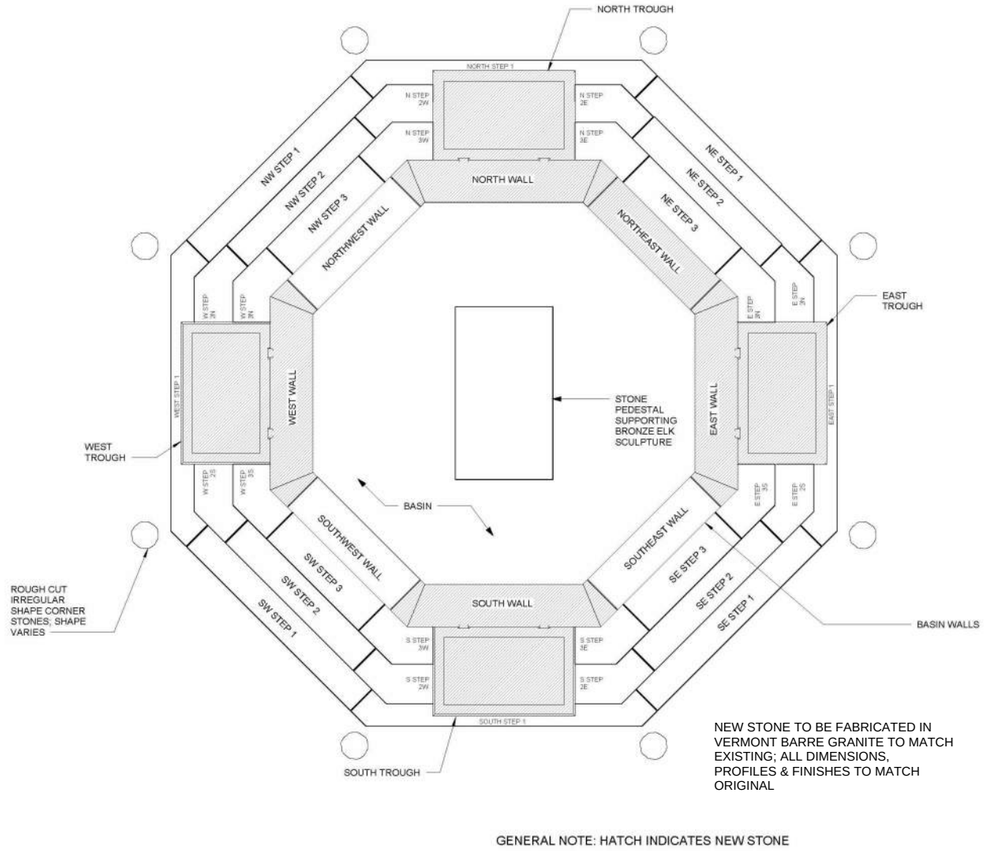
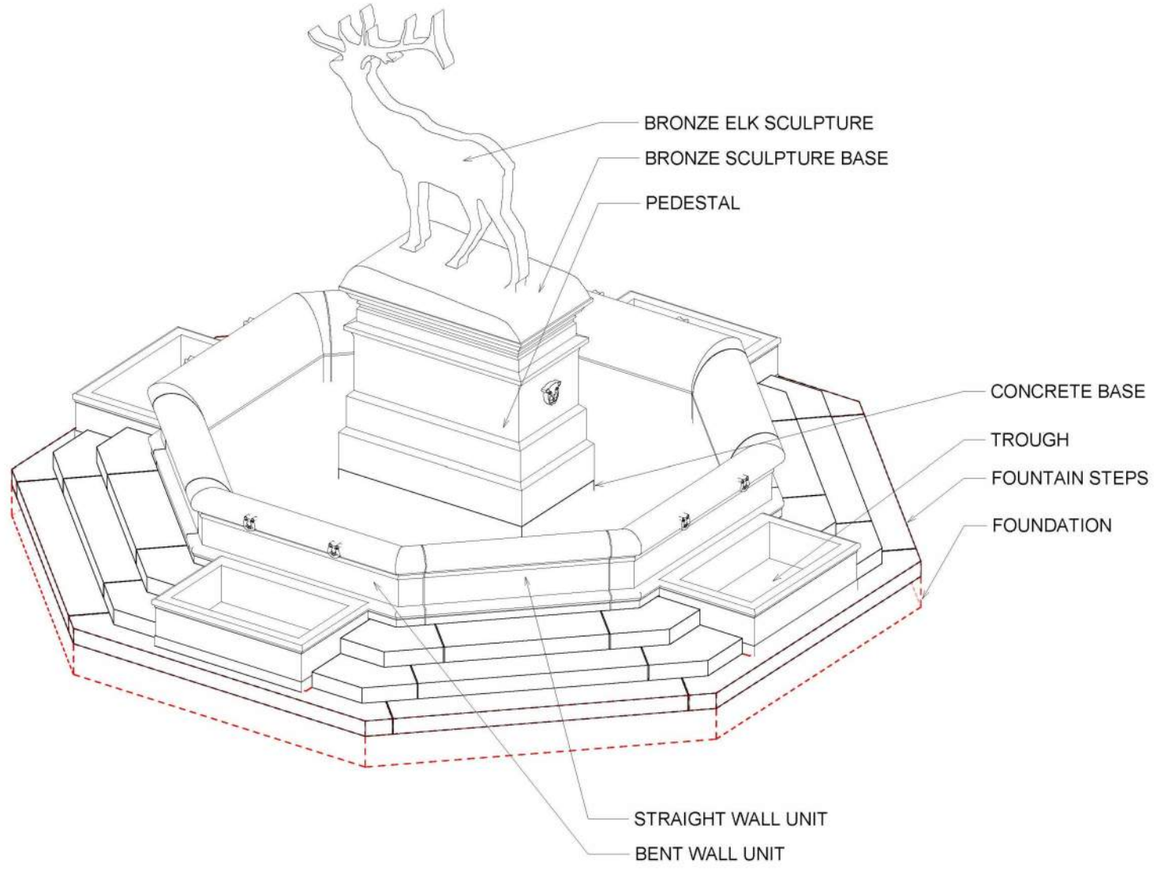


Fountain Plan



Axonometric

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PLAN & AXONOMETRIC

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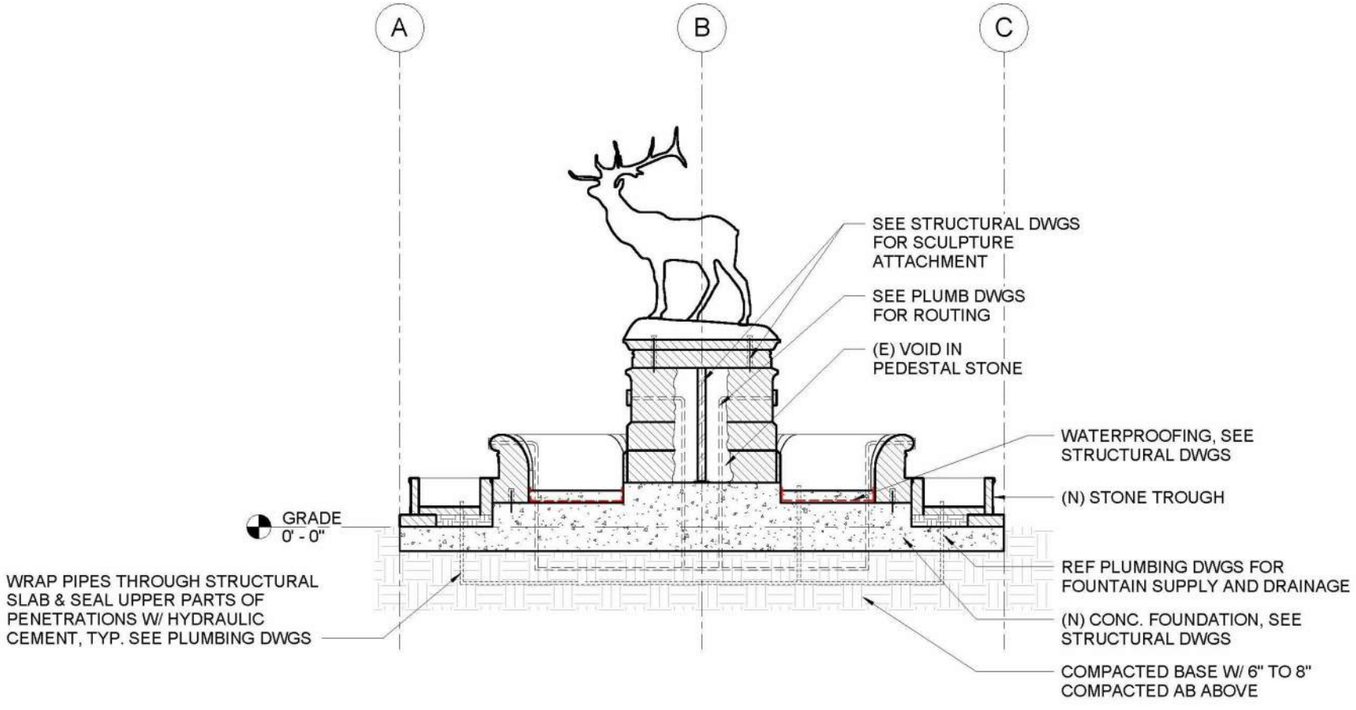
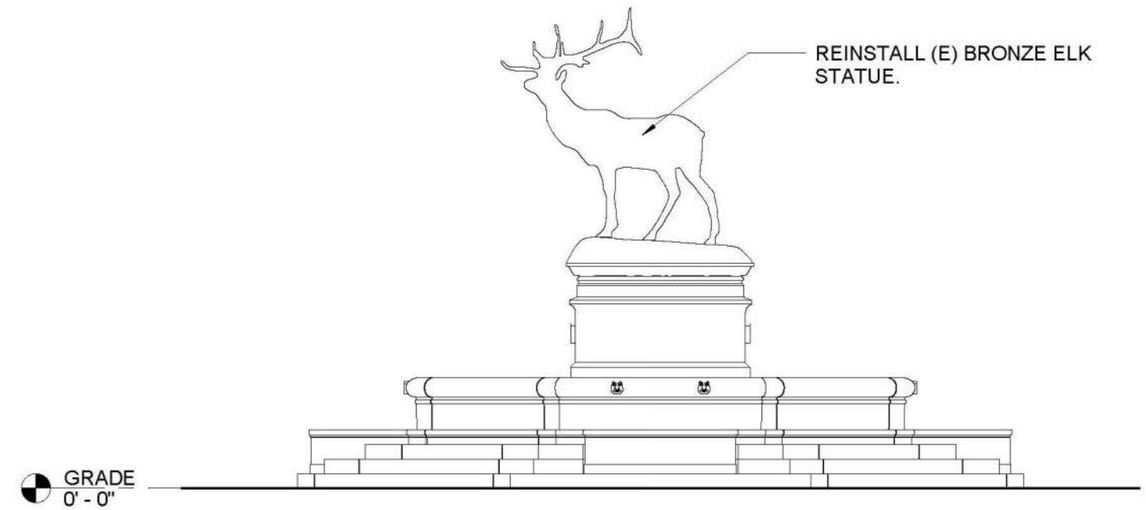


Section through Fountain



Elevation of Fountain

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SECTION & ELEVATION

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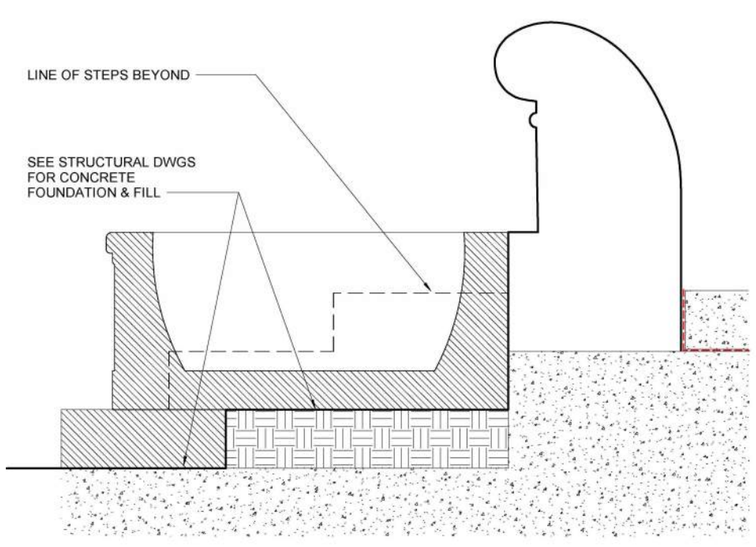
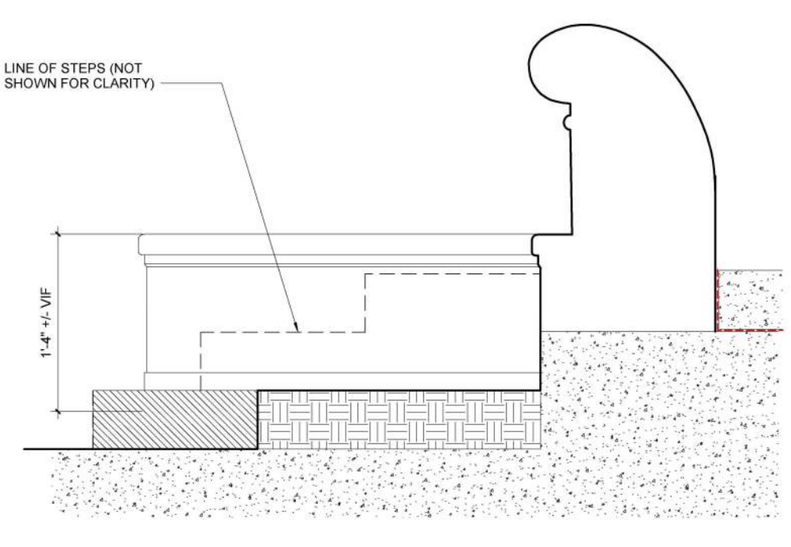
6 ORIGINAL FOUNTAIN TROUGH
DETAIL OF TROUGH TO BE REPLICATED

5 OVERALL EXISTING PHOTO
ARCHIVAL 1929 PHOTO

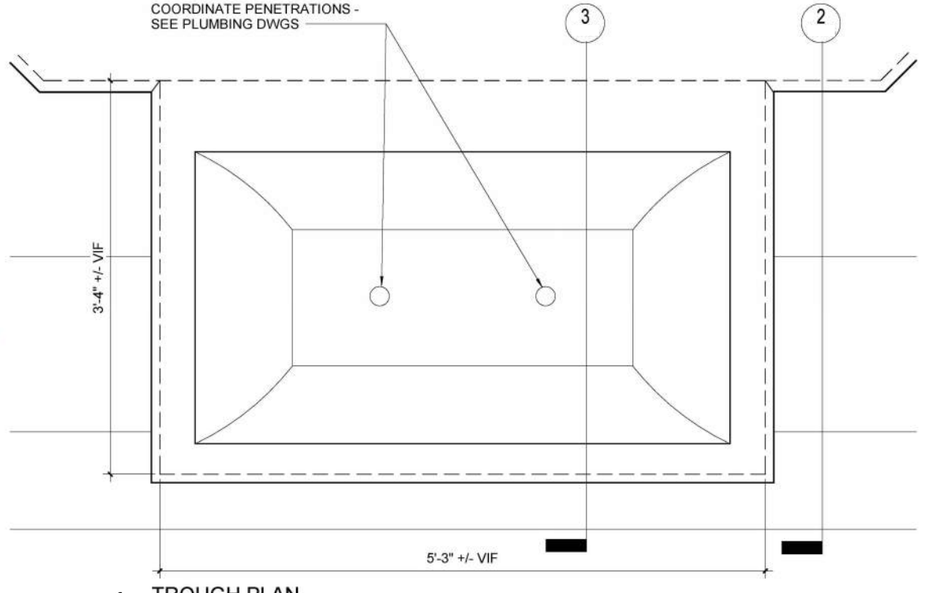
4 EXISTING BASIN WALL AT TROUGH
SHOWN FOR REF OF MITERED DETAIL AT TROUGH



3 TROUGH SECTION
1 1/2" = 1'-0"



2 TROUGH SIDE ELEVATION
1 1/2" = 1'-0"



1 TROUGH PLAN
1 1/2" = 1'-0"

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TROUGH DETAILS

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Bottom of Bronze Statue Base

Top of Bronze Statue Base

Questions