

CITY OF COOS BAY CITY COUNCIL
Agenda Staff Report

MEETING DATE September 15, 2015	AGENDA ITEM NUMBER
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TO: Mayor Shoji and City Councilors

FROM: Jim Hossley, Public Works Director *OH*

THROUGH: Rodger Craddock, City Manager

ISSUE: Presentation of Pump Station 1 Upgrade Project

BACKGROUND:

Pump Station #1 (PS1) was originally constructed in 1951 and renovated in 1989. The current building that houses the generator and electronic controls has a flat, leaky roof, doors that are inadequate and corroded, and there are a few places around the doors and building that allow water to enter the building during intense weather events. Due to these issues and issues pertaining to the generator, pump motors, and other deficiencies this pump station was listed in the City's Wastewater Collection System Master Plan to be updated and renovated. The City contracted with the Dyer Partnership to design improvements to this pump station in compliance with the Oregon Department of Environmental Quality pump station design criteria. For consistency sake, architectural features and color schemes modeled after the City's two most recently constructed pump stations have been incorporated into the design.

PS1's four existing pumps and motors are located above ground and outside which has led to corrosion of the exposed piping, valves and various fittings. These pumps and motors are loud and noisy and have been the cause of noise complaints from neighboring residents. Additionally, to remove the pumps for maintenance the City must contract with a local boom truck operator for removal and replacement. The new pumps will be submersible and housed underground in the wet well. When maintenance is needed they can be removed using a new crane that is part of the proposed improvements. By having the pumps submersible and underground the noise from the pumps will be reduced dramatically. Other benefits include having the pumps in a location that is not visible, which helps the aesthetics.

The current backup generator is housed inside the existing control building and is over 30 years old, difficult to maintain, has limited availability for spare parts, and is undersized for the pump station. The proposed generator has a sound attenuating housing and will be sized to run the pump station to full capacity when used. The generator will be placed in a 3 sided structure, with a roof, that will extend from the control building. The walls and roof of the 3 sided structure will not only protect the generator from the elements but will also add some extra sound barrier qualities.

The current building is located close to Front Street and, as mentioned earlier, has numerous issues with the roof, doors and points where water can enter. As previously requested by the owners of the adjacent Chevron station it is currently painted with the same colors as the Chevron station. The new building will be moved towards the back (west side) of the lot and will be smaller than the current building. The paint scheme and materials of the new building were picked to stay consistent with the recently constructed Pump Station #4 (near Blossom Gulch) and #5 (at the corner of

Woodland and Ocean). Using the same materials and colors for the pump station will save in costs, storage, and complexity of obtaining building materials for future repairs. The building will mainly be constructed of grey split faced blocks, as used on Pump Station #4 and will not be painted. The building will be covered by a metal dark grey roof and gutters. The eaves will be painted "Pump House Beige" and the doors and edging will be painted "Sweet Rosy Brown". These colors for the roof, doors and building have been used for Pump Station #4 and #5. The current Pump Station #1 has a fence that surrounds the pump and wet well area but not the building; the new design includes a chain link fence, coated with a "Midnight Black" Permafused II coating, which is also consistent with Pump Station #4. The City has received positive feedback from the community on the buildings and colors of these two new pump stations. For ease of maintenance the landscaping of the site will stay consistent and is proposed to remain gravel. On January 8th 2015 the City and Dyer met with the Design Assistance Team (DAT) and presented the plans for the colors, design and landscaping of the site. The DAT agreed with the proposal of colors and layout and recommended that, as proposed, Staff stay consistent with the other recently constructed stations. The City has also met with the owners of the adjacent Chevron station and presented pictures of Pump Station #4 for their review. The owner had positive comments and agreed that the new design would be acceptable instead of painting it with the same colors as the Chevron, as is currently being done.

As the site is being renovated the sidewalk along Birch Ave will be replaced and new curb cuts will be added to allow for access to the wet well for maintenance. New lighting for the building will also be installed. The new lighting consists of 2 flood lights that are attached to the new control building and are approximately 8 feet from ground level. One light is located within the semi-enclosed area and is focused on the new generator, the other light faces south and is focused on the wet well. The power servicing the building currently runs overhead and drops into the building. The new route for power will be underground and will therefore be out of sight. The new crane will be a gantry crane that will be painted black to match with the fencing around the site. The crane will be sized to be able to lift all pumps and equipment from the wet well for maintenance purposes. These improvements were also received positively by the DAT.

ADVANTAGES:

The advantages of the upgrade to Pump Station #1 include having a pump station that meets the DEQ's pump station design criteria. Keeping the architectural design of the new Pump Station consistent with the recently constructed pump stations will help in supply and design costs.

DISADVANTAGES:

Staff sees no disadvantages.

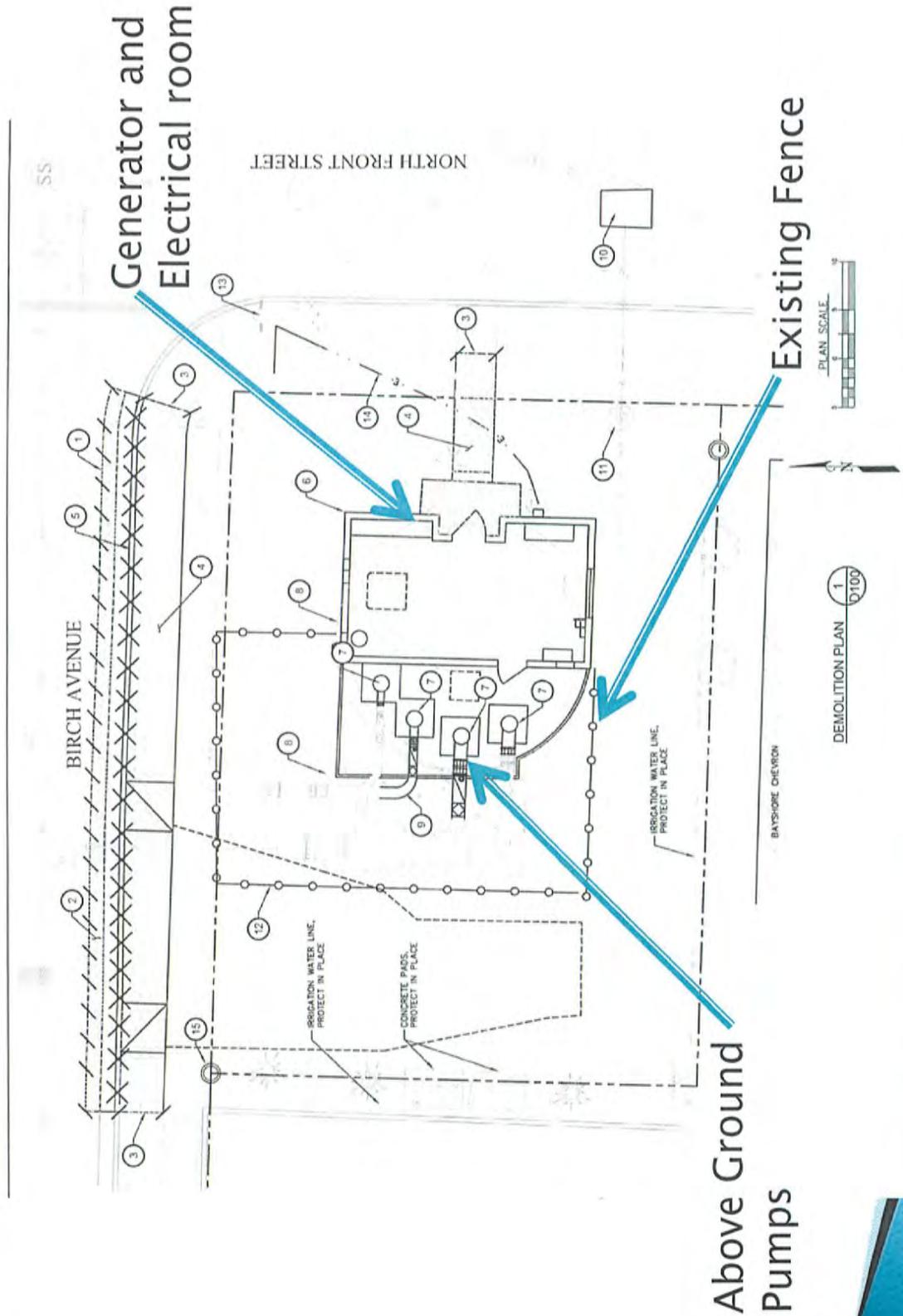
BUDGET IMPLICATIONS:

There are no budget implications with what is currently being requested of Council. Award of contract to construct PS1 will come to Council after the plans are bid.

ACTION REQUESTED:

If it pleases the Council, Approve the proposed Architectural designs for the Pump Station 1 Upgrade Project

Current Site Plan



Proposed Site Plan

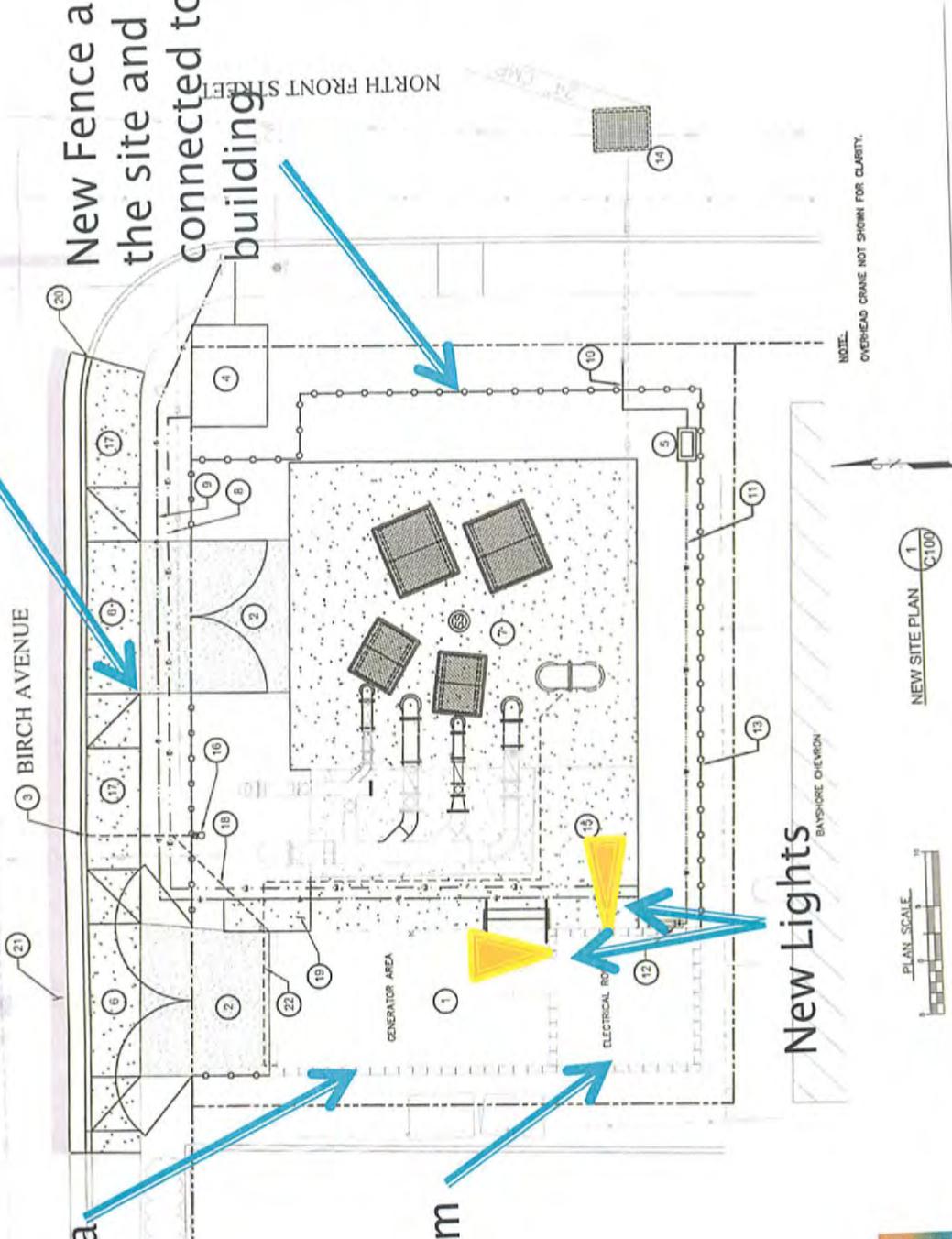
Sidewalk to be improved

New Fence around the site and connected to building

Generator Area

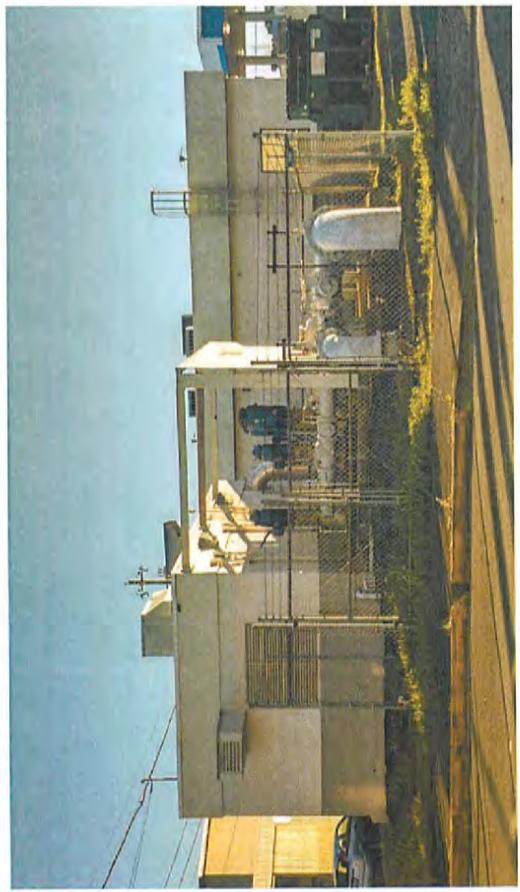
Electrical Room

New Lights



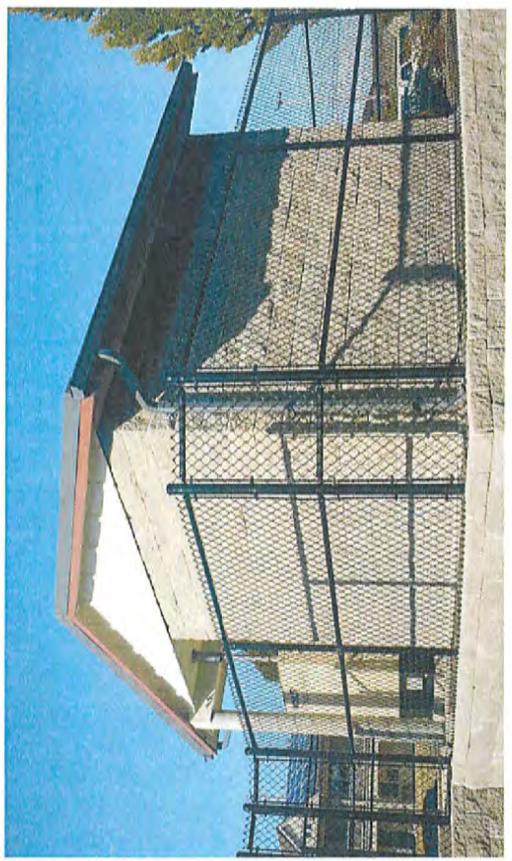
Building Comparison

▶ Current



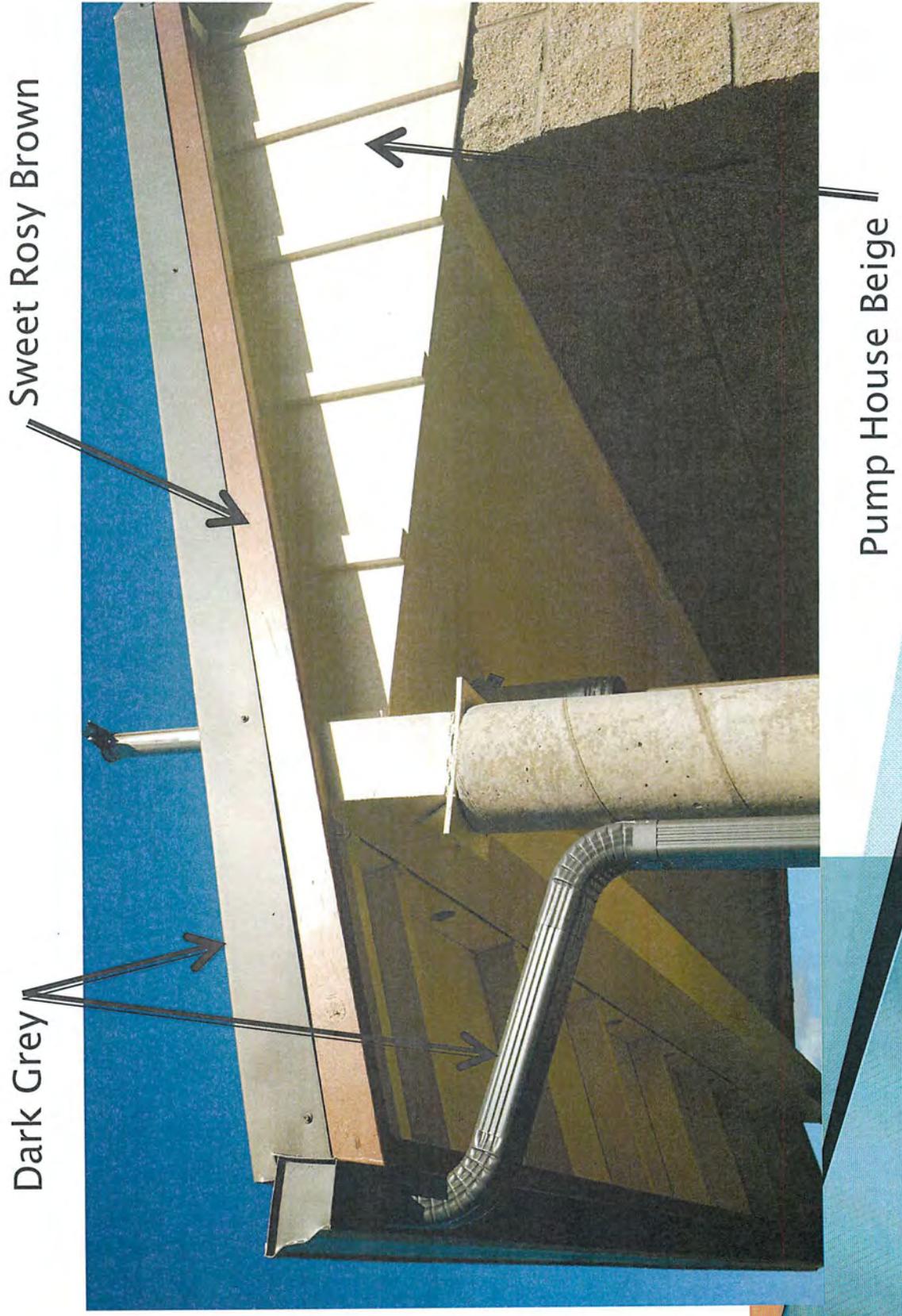
Existing Pump Station 1
(Front & Birch)

▶ Proposed



Existing Pump Station #4
(Near Blossom Gulch)

New Building Colors



Pumps Comparison

- ▶ Current

Pumps are above ground



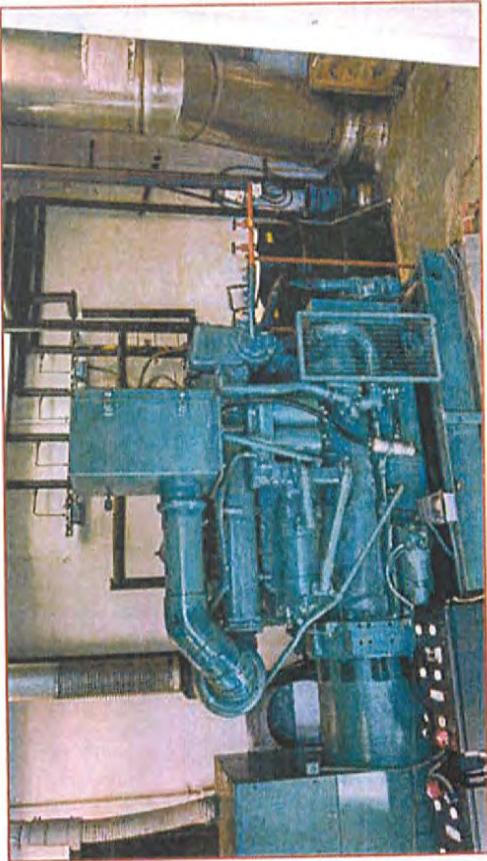
- ▶ Proposed

Pumps are underground



Generator Comparison

▶ Current



▶ Proposed



- Sound Attenuating Housing
- Aesthetical Appeal

Landscaping Plan

