

1. GENERAL

1.1 Work Included

- .1 Demolition and removal work shall be undertaken generally in accordance with the Specifications and Drawings. The work shall include, but not necessarily be limited to the following.
- .2 Column Lines 1 to 4
 - .1 Removal of existing aluminum stairway from lower mezzanine to floor level near column line 4.
 - .2 Removal of existing blind flanges on pipe inlets and outlet.
 - .3 Removal of existing mezzanine floor access hatches.
- .3 Column Lines 4 to 5
 - .1 Removal of existing concrete stairway and metal handrails from lower mezzanine to floor level between column lines 4 and 5.
 - .2 Removal of existing 900mm diameter steel piping between Pump P - 3 and the Branch II flange adjacent to column line 5, including check and isolation valves, pneumatic actuator and related piping and appurtenances, restrained Victaulic joint, and fabricated wye.
 - .3 Removal of existing concrete pipe supports.
- .4 Column Lines 5 to 7
 - .1 Removal of existing concrete stairway and metal handrails from lower mezzanine to floor level between column lines 6 and 7.
 - .2 Removal of existing 900mm diameter steel piping between Pump P - 2 and the Branch II flange adjacent to column line 7, including check and isolation valves, pneumatic actuator and related piping and appurtenances, and restrained Victaulic joint.
 - .3 Removal of existing concrete pipe supports.
 - .4 Removal of concrete curb at location of new access platform.
- .5 Column lines 7 to 9
 - .1 Removal of existing concrete stairway and metal handrails from lower mezzanine to floor level between column lines 8 and 9.
 - .2 Removal of existing 900mm diameter steel piping between Pump P - 1 and the Branch 2 flange adjacent to column line 9, including check and isolation valves, pneumatic actuator and related piping and appurtenances, and restrained Victaulic joint.

- .3 Removal of existing concrete pipe supports.
- .4 Enlarging of existing mechanical opening in mezzanine floor slab.
- .5 Removal of concrete pump base.
- .6 Removal of concrete curb at location of new access platform.
- .6 Column lines 9 to 11
 - .1 Removal of existing mezzanine floor access hatch.
 - .2 Removal of existing concrete equipment bases.
- .7 Removal or re-routing of existing service piping to facilitate the installation of pumping units.
- .8 Removal of roofing material including roofing membrane and insulation to extents required for the installation of the HVAC and electrical transformer equipment.
- .9 Cutting of mechanical openings in roof slab associated with the HVAC and electrical transformer installation.
- .10 Coordinate with Section 03300 for preparation of concrete wall and floor surfaces where stairs, railing, pipe supports, equipment pads, floor hatches, etc. have been removed.
- .11 Supply and installation of enclosures and equipment for dust control, fencing, netting, bracing, or other items as required to protect remaining structures, equipment, services, and adjacent areas.
- .12 Coring of holes for anchor bolts, pipes, and conduits.
- .13 Protection of workers during demolition work.
- .14 Final cleaning of site.

1.2 Protection

- .1 Protect existing items designated to remain and items designated to be incorporated into the new work (e.g., rigid coverings over existing equipment). In event of damage, replace such items or make repairs to acceptance of Contract Administrator and at no additional cost to the City.
- .2 When demolishing existing concrete, dust control measures shall be exercised in order to eliminate contamination of existing equipment. As a minimum, areas of demolition shall be enclosed, negative pressure maintained during dust creating work, and work kept wetted down to prevent dust migration.

2. EXECUTION

2.1 Preparation

- .1 Inspect site and verify with Contract Administrator, items designated for removal, items to be preserved, and items to be protected.

2.2 Removal

- .1 Remove items indicated.
- .2 Do not disturb adjacent items designated to remain in place.
- .3 Where new concrete is to be installed to fill in existing openings, the existing hatch frames and covers shall be removed and existing concrete prepared to receive new concrete as shown on the Drawings.

2.3 Coring

- .1 Core holes through walls and slabs for piping and into equipment pads and floor slab to accept anchor bolts. Coordinate with Division 13 - Process for correct location, size, and depths for the anchor bolts for the new equipment bases, and with Division 15 - Mechanical for correct size and location for coring for piping.
- .2 Coring is to be done to neat lines perpendicular to the surface and to depths required.

2.4 Cutting Openings

- .1 Cut openings through the roof slab as shown on the Drawings. Coordinate with Division 15 Mechanical for correct location and size of openings. Ensure that concrete being removed does not drop down to the mezzanine or floor below.
- .2 Cutting is to be done to neat straight lines perpendicular to the surface.

2.5 Disposal of Material

- .1 Dispose of the equipment items identified on the Drawings and all associated piping, valves, and fittings at the Water and Waste Department's compound at 598 Plinquet Street. The Contractor is to notify the City and the Contract Administrator at least 14 days prior to anticipated disposal date.
- .2 Dispose of other demolition materials (i.e., rubble, etc.) off-site at an acceptable disposal site.

2.6 Restoration

- .1 Upon completion of portions of work and at final completion of work, remove debris, trim surfaces, and leave work areas clean.

- .2 Reinstatement areas and existing works outside areas of demolition to match condition of adjacent, undisturbed areas. Provide new materials for restoration, e.g., roofing, paints, etc.

END OF SECTION