

SECTION 02526

EFFLUENT WASTEWATER CONTAINMENT

PART 1 - GENERAL

1.01 DESCRIPTION OF REQUIREMENTS

- A. In accordance with the environmental requirements of the City of Houston, the contractor shall contain, treat as necessary and either pump into the sanitary sewer system or remove from the site and properly dispose of all, 100%, of the water and liquid waste products generated because of the execution of the project in accordance with Federal, State and Local Codes.
- B. The contractor shall obtain, permit from the city of Houston Sanitary Sewer authority to pump the wastewater into the city sanitary system.
- C. The contractor will contain all effluents on all elevations at all access/mobilization levels.
- D. No separate payment will be made for the work of this section, and all costs related to this work shall be included in the overall cost of the work unless specifically stated otherwise.

1.02 RELATED SECTIONS

- A. Section 01110 – Summary of Work
- B. Section 02235 – Temporary Site and Pedestrian Protection

PART 2 – PRODUCTS

2.01 CONTAINMENT EQUIPMENT

- A. Equipment Choice
 - 1. The contractor shall have the right to choose what type or method of equipment he will provide. Suggested types:
 - a. Building of a containment pool of wood and or metal along the sides of the building and line it with poly, EPDM, PVC sheet goods.
 - b. Pre-building of metal retention pans

- c. Prefabricated or preformed plastic or rubber bladder type bags and then split and support.
 - d. Etc.
- B. Diverter Flashings and Plugs
- 2. The contractor shall provide to the City of Houston for approval, the type or method of diverter/flashing he will provide. Possible types:
 - a. Temporary metal flashing cut and sealed into the mortar joint of the wall and then with a waterproof membrane draped into the containment pool.
 - b. Sealing of a waterproof membrane diverter directly to the wall surface.
 - c. Blow-up compression plugs for the drains of the plaza and the light wells.
 - d. Etc.

PART 3 – EXECUTION

3.01 TESTING & SET-UP & REMOVAL

- A. Prior to mobilization onto the site, the contractor shall test all of the existing plumbed storm sewer drains for flow. Water will be provided by the city for him for the tests. A report of the test results will be issued to the building manager at the end of the tests sighting any drains that were found clogged or appeared slow flowing.
- B. At the end of each days work the contractor shall remove all contained water to the sump pump area. Also all plugs shall be removed from drain locations. The intent is that when the work day is over the storm sewer system shall function as originally intended at the start of the project with little to no impediment from project equipment..

3.02 EFFLUENT CONTAINMENT

- A. The contractor shall be responsible for initial set-up, removal, maintenance, and moving of any containment equipment as needed to provide that 100% of any and all project generated effluent wastewater and repellent overage from reaching the city storm sewer system.
- B. The contractor shall be given the required access to the building's sump pump location in which to pump the treated wastewater.

3.03 TREATMENT OF WASTEWATER

- A. Prior to the pumping of any wastewater into the buildings sump pump the contractor shall check the PH levels of the wastewater to see that it meets City of Houston sanitary sewer requirements. If it does not it shall be treated until it does fall within the allowable levels.
- B. Once the wastewater falls within acceptable levels of the sanitary system, it may then be pumped to the sump pump for disposal.
- C. The wastewater shall be treated by dilution of 5-parts clean water to 1-part of estimated wastewater used during the cleaning and water repellent application processes for the area. Note: Any damage to surrounding vegetation caused by the inadequate dilution rate shall be the responsibility of the contractor.

3.04 REMOVAL OF WASTEWATER

- A. Once the wastewater falls within acceptable levels of the sanitary system, it may then be pumped to the sump pump for disposal. Removal of wastewater shall occur at a minimum of once per day, at the end of the day's work.

3.05 REMOVAL OF WASTEWATER

- A. Once the project is completed the affected and or altered building surfaces shall be returned to the same condition as existed prior to the commencement of work.

3.06 SAFETY

- A. The contractor shall be responsible for assuring that the equipment is designed and installed in such a manner so as to meet all OSHA, State and local safety requirements.

3.07 PROPERTY PROTECTION

- A. The contractor shall be responsible for all protection of the building and surrounding surfaces and grounds as might be affected by the intended use of the equipment for the purpose of inspecting all elevations surfaces of the existing building.
- B. The contractor shall be responsible for investigating and allowing for the specific load limitations of the building structure and surrounding surfaces and grounds as might be affected by the intended use of the equipment for the purpose of inspecting all elevations surfaces of the existing building.

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3.08 STORAGE AND PROTECTION OF EQUIPMENT

- A. The contractor shall be responsible for all storage and protection of the while the equipment is not in use.

3.09 MAINTENANCE AND CLEAN UP OF EQUIPMENT

- A. The contractor shall be responsible for all maintenance of and clean up concerning the equipment and its use as defined by the above scope.

END OF SECTION