



## Soil Results

The results of the soil samples were compared to the Residential Direct Exposure Limits,

## Extraction Wells

- 2-inch-diameter well with total depth of 11 feet
- 1-foot Schedule (Sch.) 40 polyvinyl chloride (PVC) sump at bottom
- 5-foot Sch. 40 PVC 10-slot screen extending from 5 feet bls to 10 feet bls
- 2-inch-diameter Sch. 40 PVC riser to above ground surface
- 6/20 sand pack
- Bentonite seal to prevent surface runoff seepage along well casing

Four sets of nested monitoring wells will also installed near the extraction wells at the locations shown on Contract Drawing 1 in Attachment B. The monitoring well construction is summarized below.

## Monitoring Wells

- 2-inch-diameter well
- Shallow "S" wells with total depth of 10 feet
- Mid-range "M" wells with total depth of 18 feet
- "S" wells with Sch. 40 PVC 10-slot screen extending from 5 feet bls to 10 feet bls
- "M" wells with Sch. 40 PVC 10-slot screen extending from 16 feet bls to 18 feet bls
- 2-inch-diameter Sch. 40 PVC riser to near ground surface
- 20/30 sand pack
- Bentonite seal to prevent surface runoff seepage along well casing
- Protective flush-mount surface casing and locking cap

Each extraction well will be equipped with a pneumatically operated pump. The pumps have capacity of up to 2 gallons per minute (gpm) but the average flow from each well is expected to be 0.25 to 0.5 gpm. The air supply for the pneumatic pumps will be an existing air compressor located in the adjacent treatment building. Each well pump will have a sample tap along with isolation valves for the air supply and water discharge.

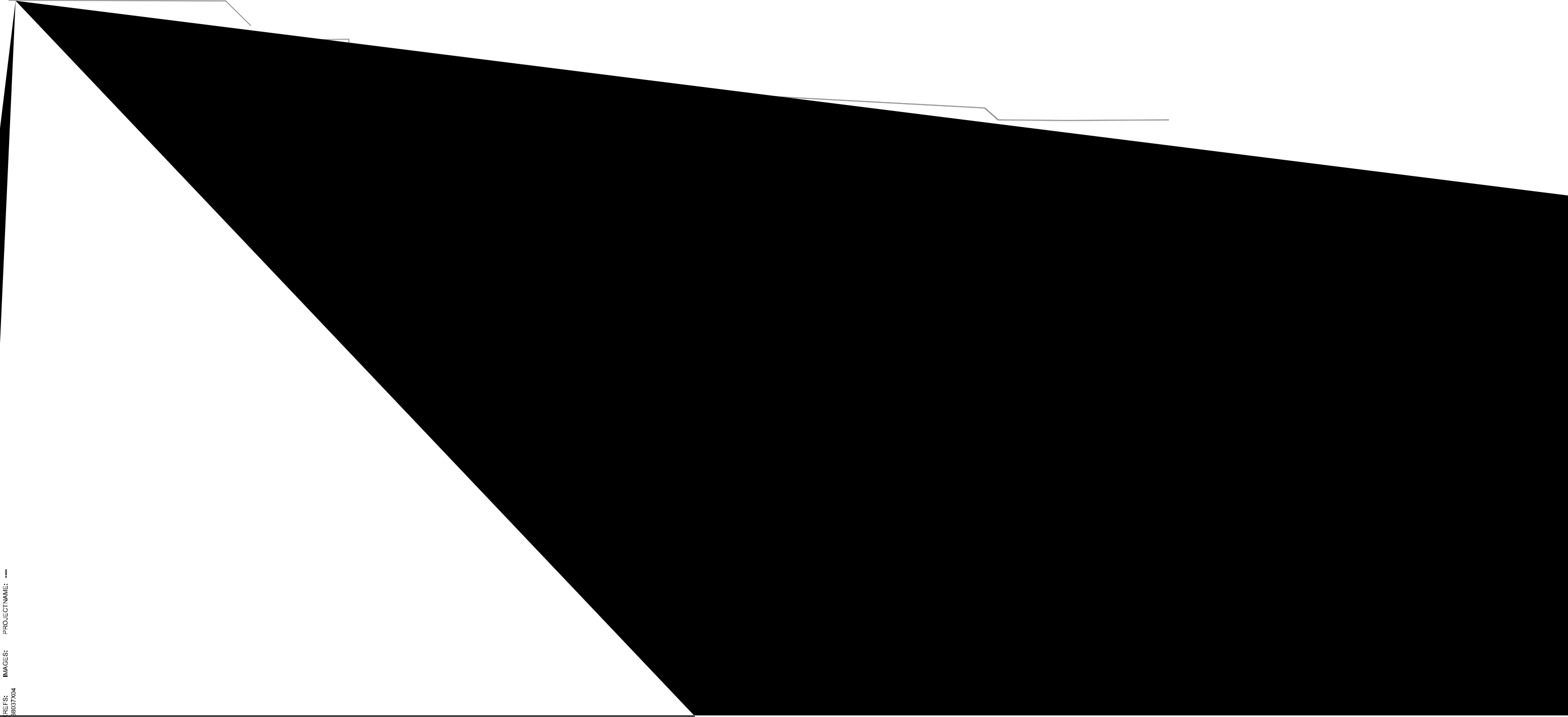
The extraction wells will discharge into a manifold consisting of ¾ and 1-inch-diameter Sch. 80 PVC pipe. Secondary containment for the water piping will be provided by piping or a containment tray as shown on the Contract Drawings in Attachment B. The piping from eight extraction wells will be combined in one manifold while the other seven extraction wells will combine in a second manifold. Flowmeters and sample taps are provided for each manifold, while a sample tap is provided for the combined flow from all the extraction wells.

The extraction wells will discharge into a 17,600 gallon double-walled steel storage tank. A vapor-phase carbon unit will be installed on the vent from the storage tank. As necessary, water will be removed from the storage tank using a vacuum truck and transported off-site for proper disposal. A containment area will be provided for the vacuum trucks during the loading operation.



Attachment A

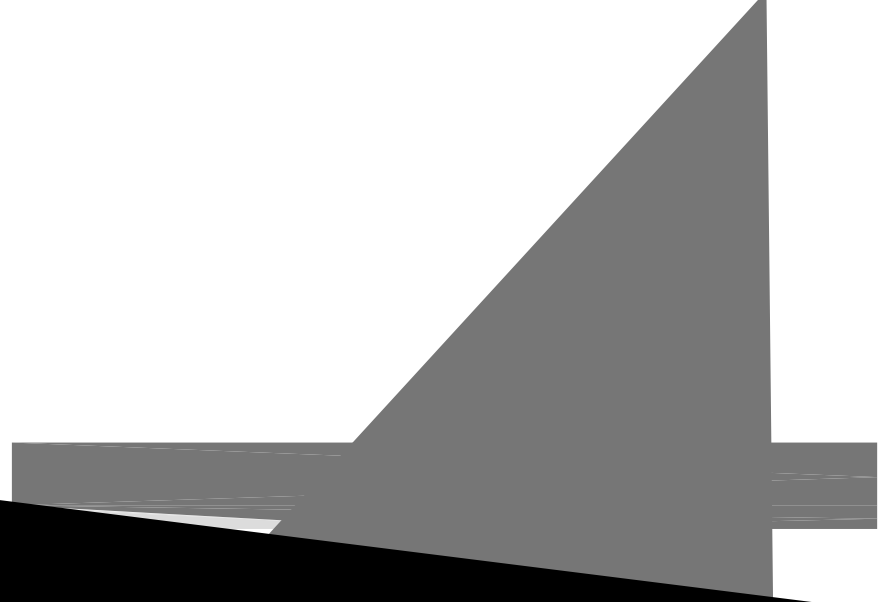
Results of Soil and Groundwater Sampling Program

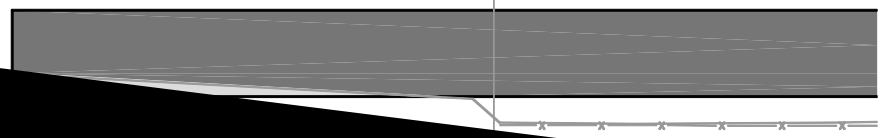
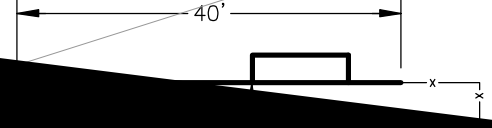


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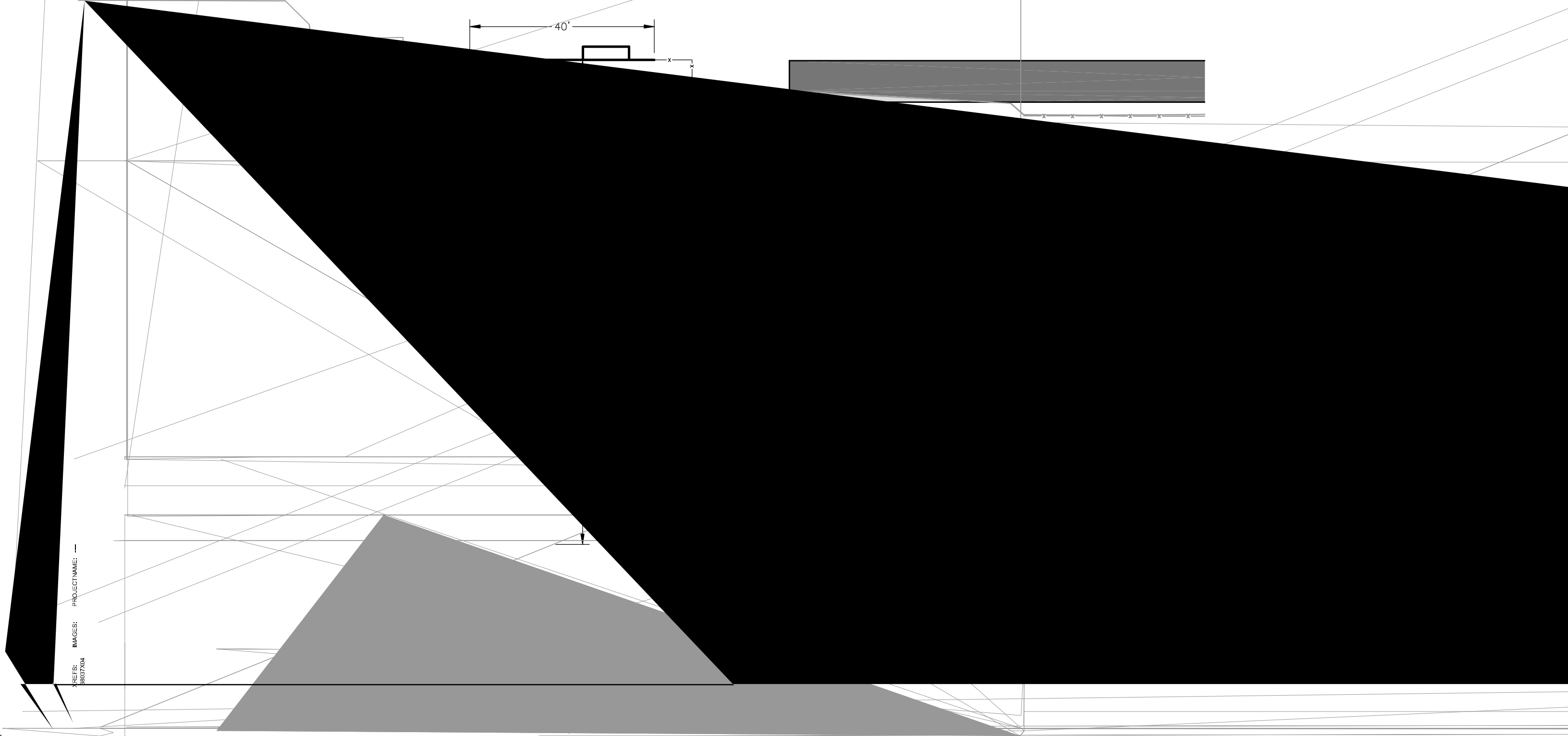
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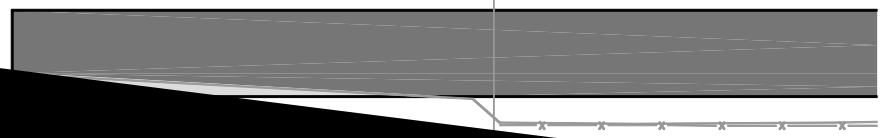
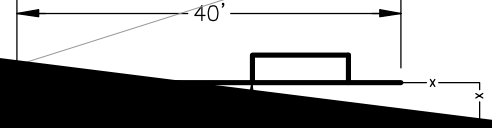




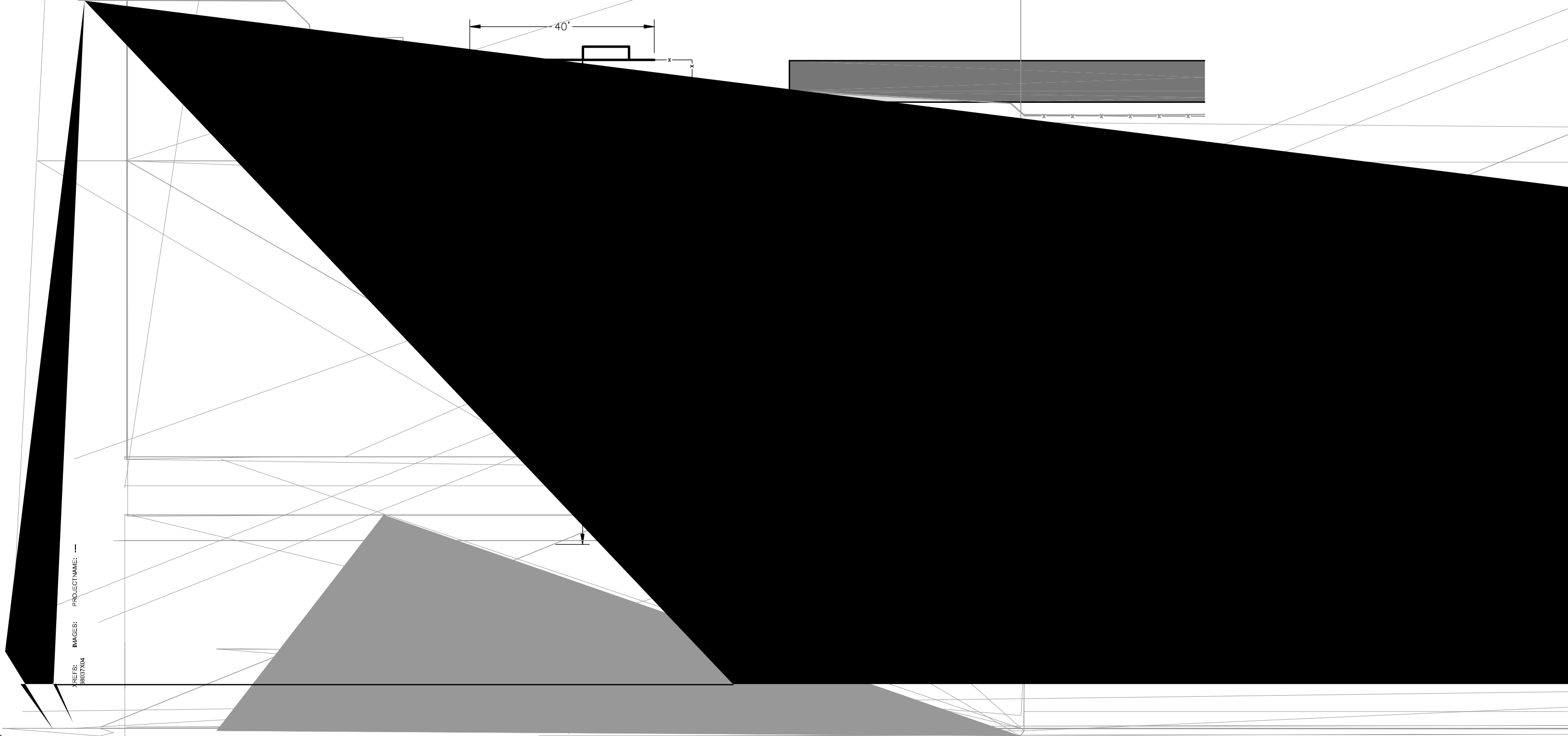
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**Attachment B**

**Interim Source Removal Contract Drawings**



STRUMENT SPECIFICATIONS

1. FLOW METERS SHALL BE BADGERMETER, INC. 3/4-INCH INDUSTRIAL MODEL M25 RCDL POSITIVE DISPLACEMENT ROTATING DISC FLOWMETER WITH BRONZE

EVER: 17.05 (A)

CONTAINMENT TRAY BA

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Attachment C

Interim Source Removal Construction Schedule

ID	Task Name
1	Complete Design
2	Install Wells
3	Survey Wells
4	Develop Wells
5	Construct Containment Structures
6	Double-Walled Storage Tank Delivery
7	Install Containment, Pumps and Piping
8	Start-Up Testing
9	System Operations

