

Temporary Facilities and Control Plan

Revision: 04
September 8, 2024



LOWER DUWAMISH WATERWAY

Upper Reach Remedial Action

Contract KC001065

Prepared By:



Pacific
Pile & Marine

700 S. Riverside Dr.

Seattle, WA 98108

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1.0 Introduction

King County has contracted Pacific Pile & Marine to perform the remediation of within the Lower Duwamish Water (LDW) upper reach (Work Site) and part of the LDW Superfund Site cleanup remedy. Per Project Specification Section 01 52 00 – Construction Facilities, The Contractor must maintain a suitable office near the Work Site to be the headquarters of the representative authorized to receive drawings, instructions, or other communication or articles. The Project Work is located at the upper reach of the LDW Superfund Site in King County, Washington, which is defined as that part of the waterway from Duwamish Waterway Park at river mile (RM) 3.0 to the South 102nd Street bridge at RM 5.0 (See Contract Specification Section 01 11 00.)

This work will be done over the course of three construction seasons (2024-2027) during the allowed in-water work window of October 1-February 15. The temporary construction facilities and controls will be decommissioned at the end of each Construction Season.

The purpose of this Plan is to provide proper information regarding all temporary facilities and controls used during this Project. This Plan is written in accordance with Contract Specification Section 01 52 00, and the following subsequent Specification Sections: 01 52 01, 01 35 43, 01 13 00, 01 41 00, and 01 55 26.

2.0 Temporary Facilities Layouts & Locations

2.1 Staging & Stockpile Areas

PPM Equipment Staging Area

The staging and equipment area for Pacific Pile & Marine (PPM) shall be the yard located at 700 S Riverside Dr, Seattle, WA 98108 that is in PPM's possession. PPM shall use this area to perform normal business operations as well as any necessary maintenance or repairs to any marine equipment used on this Project. This yard will only be used for storing clean equipment in the offseason or staging of barges prior to tows to the project site. There will be no stockpiling of clean aggregate material at this location. Refer to Section 2.1 of the Decontamination Plan for information on water-based equipment decontamination to occur prior to storage of clean equipment in this yard. This is the permanent lay-down yard for PPM, and as such it will not be necessary to decommission at the end of each construction season. Figure 1 represents an



Figure 1- PPM permanent lay-down yard and offices.

offseason condition (March-August) in which most of PPM's floating assets are moored. During the preparation for the in-water construction season and in-water construction season (October-February) PPM's floating and land-based assets will be on projects allowing for ample space for the LDW project.

Sediment Management Area (SMA) 5 Stockpile Areas

The stockpile areas will be located approximately as shown in Attachment A on adjacent property (Container Properties' parking lot) and will be resubmitted as revision to this plan once the final location, materials, and setup have been determined. The revised Temporary Facilities and Control Plan will be submitted prior to the 2026-2027 construction season. The material stockpile area will be set up as shown in Attachment A, next to a decontamination area and 1-2 baker tanks set up to handle the water from both of those areas. There will be an excavator stationed next to the containment area to use to clear the dumping area for the jobsite trucks and load the other trucks for hauling. The wheel wash will be as is shown in Attachment A and will have its own tank. The sediment will be vacuumed out as needed. The stockpile subgrade will be 4-10" of drain rock. If the filter fabric details shown in Figure 2 cannot be used, the following containment will be implemented, with modifications as necessary to adhere to the Erosion Control Plan: The liner will be plastic sheeting underneath filter fabric, with the perimeter weighted down by jersey barriers. The stockpile material will be covered with plastic tarps and secured with sandbags. The excavated material will be mixed with already excavated, drier material. However, there will be well points within the contained area where water will be pumped from containment areas (stockpile, decontamination area(s), and wheel wash basin) to baker tanks for containment and further disposal. Due to the SMA 5 work occurring in 2026, a general layout has been provided by the subcontractor performing the work. See Attachment A for SMA worksite layout and containment features. More details will be provided prior to the 2026 Construction Season. BMPs from the above mentioned Plans will be used to contain all material handling areas per the permit requirements to prevent leakage of contaminated material for stockpile areas contained on the pavement, refer to Attachment A – Containment Area for more detail. The approximate equipment list is as follows: (2) excavators, (1) dozer, and (1) scarifier/till.

Further details of SMA 5 equipment to be used can be found in the Dredging and Disposal Plan.

Refer to the Stormwater Pollution Prevention Plan and the Erosion Control Plan for further detail and standards that will be adhered to for the SMA 5 work.

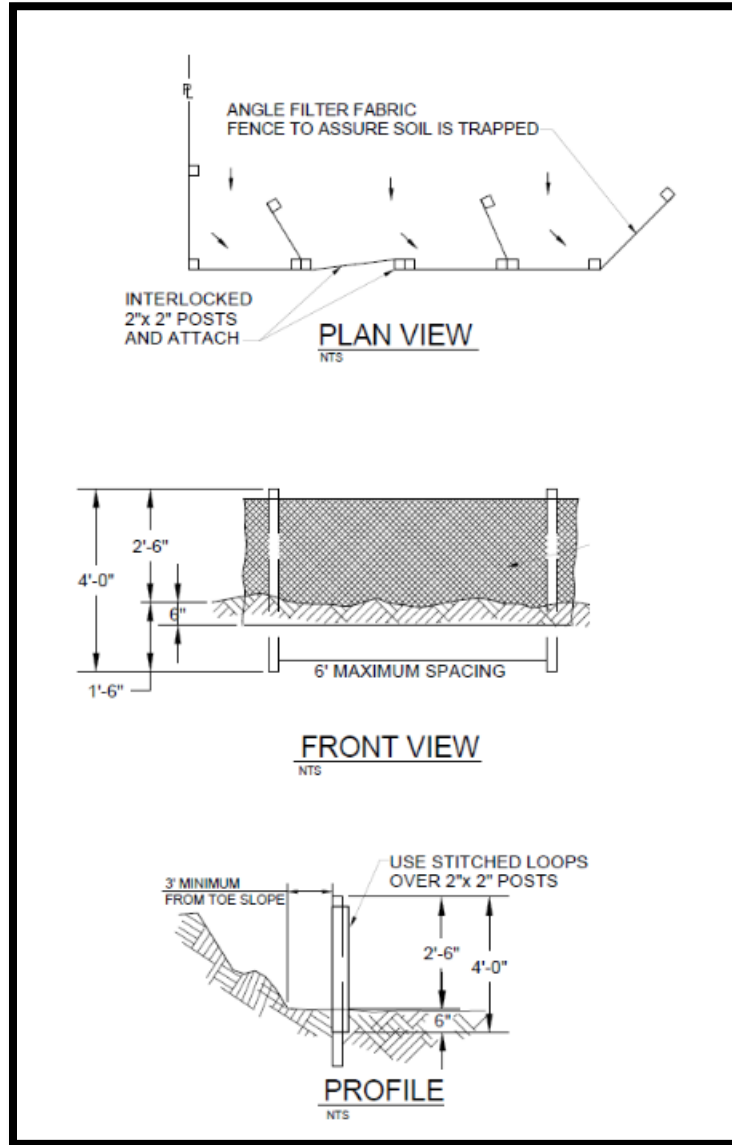


Figure 2. Filter fabric fence detail.

SMA 5 Haul Route(s)

The approximate anticipated number of trucks is 12-18 trucks hauling material offsite in a 24-hour period. This number is to be reconfirmed. Work hours are to be coordinated with the amount of available haul trucks to be secured prior to the 2026 Construction Season. The working hours anticipated for this work are restricted as follows per Specification 01 14 00, Article 1.09: Standard In-Water Work hours are 7:00 a.m. to 7:00 p.m., Monday through Friday, and 9:00 a.m. to 7:00 p.m. on Saturdays, for a 6-day-per-week Work schedule. However, PPM will recommend to chosen subcontractor performing the SMA 5 work to consider the availability of low tides and if night work will be necessary to complete the bank excavation during the in-water work window.

The haul route(s) to be used can be partially seen in Attachment A. Full haul routes can be found in the Traffic Control Plan.

2.2 On-Site Contractor Offices

PPM Structures

PPM has offices on the Duwamish Waterway at 700 S Riverside Dr, Seattle, WA 98108 (Permanent Offices). This location shall be used as the on-site field office for Pacific Pile & Marine. As a result, PPM does not require a temporary on-site office facility.

Project Representative Field Office

Construction Season is defined as the construction period in which Work that requires use of heavy construction equipment for remediation activities is allowed to be conducted by the Contractor. The Construction Season includes all In-Water Work activities to be conducted within the In-Water Work Window. Per Project Specification Section 01 52 01, paragraph 1.04 A., at least 15 working days prior to the start of the Construction Season PPM will provide an office trailer, restrooms, and on-site parking. These temporary facilities shall be located next to the Pacific Pile & Marine permanent lay-down yard at 620 S Riverside Dr, Seattle, WA 98108 (Field Office) (Fig. 3). The area for this office space is paved, and a containment structure will be provided by PPM. The Project Representative's Field Office shall be equipped with all of the following:

- Separate Conference Room (Room 2), furnished with table(s) and chairs for six people.
- Workstations for two people, including each of the following:
 - o A desk for each person
 - o Computer table
 - o Ergonomically adjustable office chairs
 - o Stationary chairs
 - o Wastebaskets
- Plain paper printer/fax/copy machine
- Phone
- Two windows with Venetian-type blinds
- Sanitary facilities within 25 feet of the office
- Handwashing facilities
- Utility services including:
 - o Electricity
 - o Sewer
 - o Water
 - o Garbage
 - o Wi-Fi
 - o Recycling
 - o Cleaning Services
 - o Monitored Security
- Seismic tie-downs and skirting
- ADA accommodation including access.
- Energy efficient features:
 - o Programmable thermostats
 - o LED lights or T-8 fluorescent lamps with energy saving ballasts.

- Weather stripping at all windows and doors
- Low volatile organic compound (VOC) paint and sealants
- Low “E” window treatment
- EnergyStar-compliant HVAC system
- Bathroom components that meet WaterSense rating criteria: low-flow toilets, urinals, faucets, and instant hot water heaters
- Kitchen components that meet Energy Star and WaterSense rating criteria: low-flow faucets, instant water heaters, and energy efficient appliances
- White/very light-colored roof
- Building insulation R ratings for floor, walls, and ceiling that meet or exceed the following:
 - 1) Roof: R54
 - 2) Walls: R23
 - 3) Floors: R33

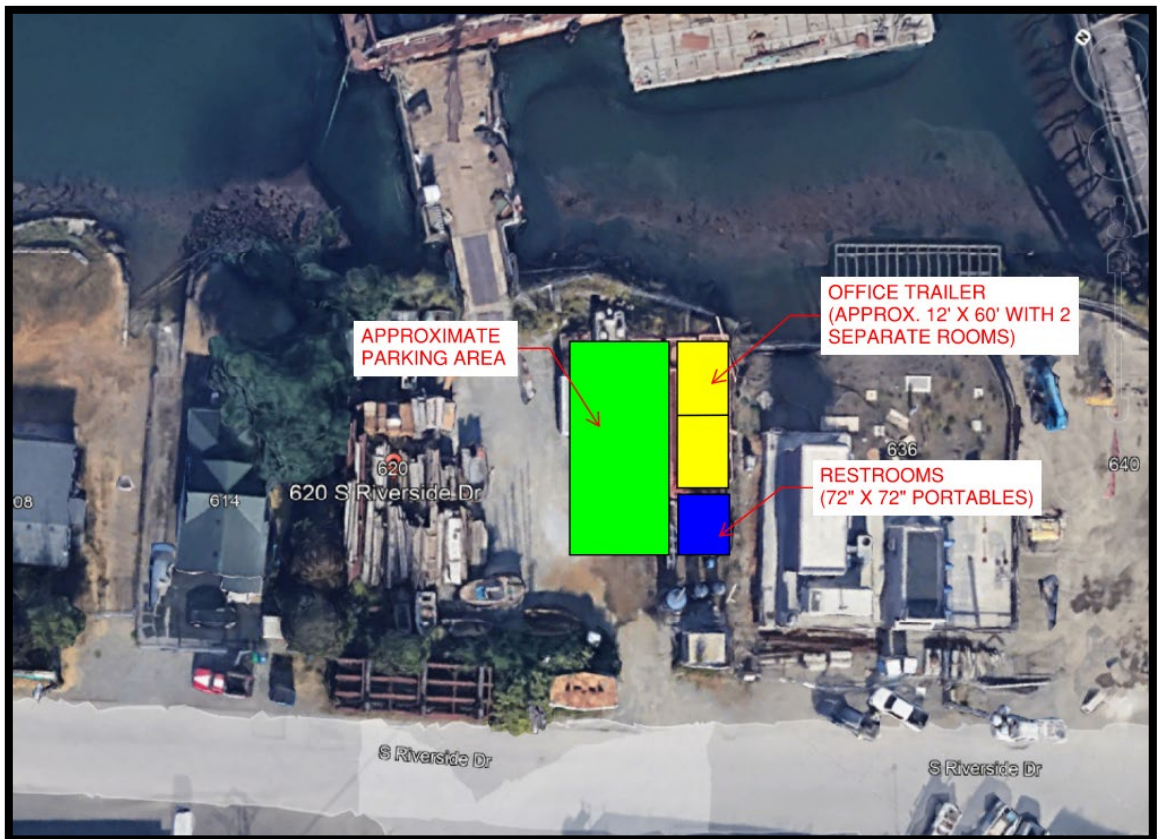


Figure 3. *Approximate layout of Project Representative’s Field Office*

SMA 5 Subcontractor Structures

The following structures will be used for the Work at SMA 5 (Attachment A):

Equipment & Personnel Decontamination Area

The equipment and personnel decontamination area are shown in Attachment A. There shall be an area for collection of wastewaters or sediment that accumulate on equipment decontamination pads and personnel PPE. All personnel involved in equipment decontamination

must wear the appropriate PPE per environmental, health, safety standards, and the Site-Specific Health and Safety Plan & Emergency Response Plan (HASP). Procedures for decontamination, collection and disposal, and a full list of equipment and PPE can be found in the *Personnel and Equipment Decontamination Plan in Appendix AD of the RAWP*, per Specification Section 01 35 43, paragraph 1.15. For additional details regarding the HASP it can be found in Appendix F of the RAWP.

Staging, Fueling, & Maintenance Area

The equipment staging, fueling, and maintenance area shown in Attachment A will be separately delineated from the other areas with containment structures. The equipment will be stored, maintained, and fueled here after going through the decontamination process. These areas will be kept outside of the temporary tree fencing, with a buffer to ensure no damage occurs to the protected trees. This area will be maintained to comply with Specification Section 01 35 29 (Health and Safety).

Office & Tool Containers

Two 20' L x 8' W containers will be stationed south of the equipment, fueling and maintenance area. One container will be dedicated to tool storage for smaller tools to be kept secure and out of the elements. The other container will be used as an on-site office and breakroom.

2.3 Contractor Parking Areas

PPM, yard, the Work Area at SMA 5, and the Project Representative Field Office shall have parking areas. PPM's is a permanently located parking area in the previously mentioned lay-down yard and can be seen in Figure 1. The parking area for SMA 5 will be located adjacent to the Work Area and will be delineated as a sectioned-off part of the existing Container Properties parking lot. The parking area for the Project Representative Field Office is shown in Figure 3.

3.0 Temporary Facilities Maintenance & Security

3.1 PPM Maintenance & Security

The maintenance and security for PPM's offices on 700 S Riverside includes a locked gate into the lay-down yard (Fig. 5). Visitors must check-in at the front desk. All doors to the building are locked when there is no one on the premises.

The temporary office facilities constructed for the Project Representative's Field Office shall also have a gate equipped with a lock (Fig. 6). Gate keys shall be given to the Project Representative no later than 15 days before the Work begins. The Field Office will also be locked when no one is occupying the space with keyed lock sets and cylinder deadbolt locks that are keyed alike. Three sets of keys for the Field Office and any other necessary keys or key copies shall be handed over to the Project Representative. An electronic security system with automatic call-out of security service that covers all exterior doors, windows, and potential locations of ingress will be provided at the Project Representative's direction. Office space windows shall have the ability to be secured and locked. Exterior windows shall be secured with bars to prevent entry from the outside. Exterior lighting at entry and parking areas controlled by photocell shall also be provided. A temporary 6-foot-high chain link fence with posts and privacy fabric screen shall be installed and maintained during the entire duration of construction around the temporary construction facilities. Concrete barriers shall also be used to limit access to excavations and hazardous areas, locations of the concrete barriers are TBD.

3.2 SMA 5 Facility Maintenance & Security

The SMA 5 subcontractor, Duwamish Services, shall keep all containers under lock and key. Site access shall be limited to Project Personnel and deliveries only. The Work Site and Temporary Facilities will be maintained in a clean and orderly condition. No public access shall be allowed within the Work Site. Construction zone signs shall be posted outside the Work Site to indicate restricted areas, exits, and entrances.



Figure 4. PPM's Permanent Offices front gate.



Figure 5. Gated Field Office location for Project Representative.

4.0 Temporary Utilities & Maintenance

4.1 PPM Utilities

Permanent Offices

Permanent Offices belonging to PPM have existing utility connections that will continue to be used for this Project.

Field Office

The Project Representative's Field Office shall use existing utility connections provided by PPM's Permanent Offices next door. The utilities include power, water, heating, cooling, and ventilation. Sanitary facilities shall be a portable restroom with a handwashing facility that will be serviced on a regular basis (Fig. 3).

Maintenance for the Field Office will be provided and shall include the following:

- Twice-weekly vacuuming, wet mopping, trash removal, and recycling removal
- Twice-weekly cleaning of restrooms
- Restroom supplies on an as needed basis.
- HVAC, plumbing, electrical, and communication line maintenance as required.
- Service and maintenance of all Contractor-supplied office equipment.
- Maintenance and monitoring services for the electronic security system
- Maintain the area free of waste materials, debris, and rubbish.
- Keep walkways free of mud and ice and maintain the vegetation and landscaping.

4.2 SMA 5 Utilities

SMA 5 Subcontractor Utilities

The temporary power source will be supplied from a generator as approved, or if possible, via connection to existing utility owned power service for the duration of SMA 5 Work. The generator will be inspected to ensure correct connections via a qualified electrician, and that it is properly grounded and safely distributed. The previously mentioned requirements will also apply if power is supplied via the existing utility owned power service.

The sanitary facilities will be a portable toilet, which will be serviced weekly. A handwashing station will also be provided along with all other health and safety requirements per applicable laws, ordinances, and regulations pertaining to public health, sanitation, and access.

A water tank will be used for the on-site water source used for decontamination and other cleaning purposes. Size of the water tank is yet to be determined. Drinking water shall be delivered to the site bi-weekly or obtained from a local grocery store.



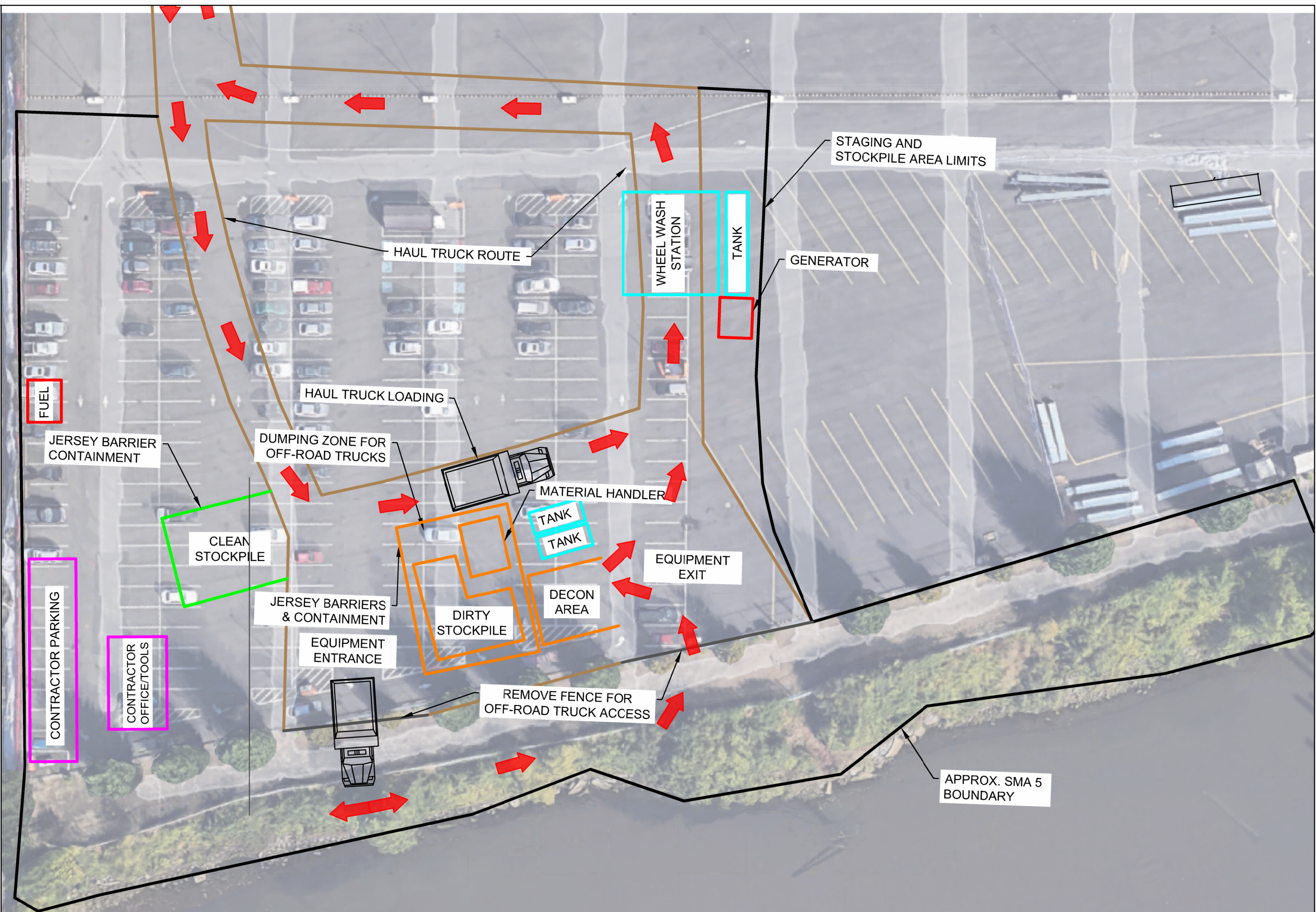
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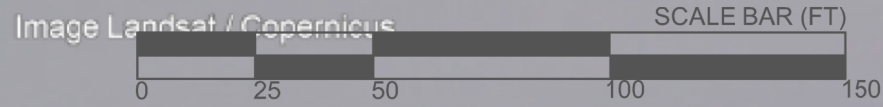
Attachment A

SMA 5 Submittals

PROPOSED SMA 5 WORK SITE LAYOUT

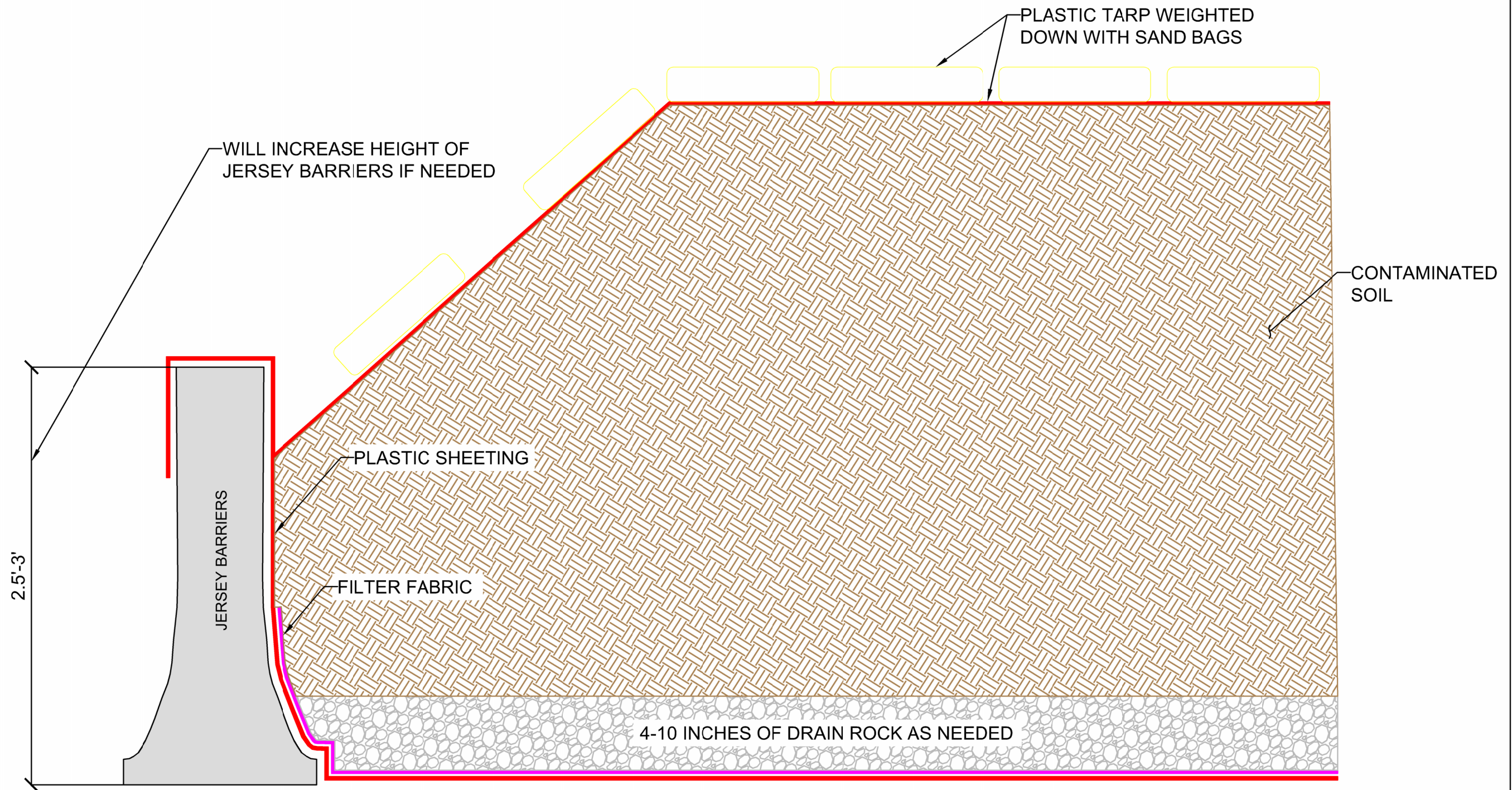


GENERAL NOTES:
 1. N.T.S.
 2. PLAN IS SUBJECT TO ADJUSTMENT AND WILL BE RECONFIRMED PRIOR TO 2026 CONSTRUCTION SEASON
 3. FIRE SUPPRESSION METHODS (EXTINGUISHERS, ETC.) WILL BE STATIONED AROUND THE WORK SITE



Sketch by AMBER HARDEN	Checked by PPM	Approved by - date N/A	Filename SMA 5 LAYOUT	Date 7/6/24	Scale N.T.S.
LOWER DUWAMISH WATERWAY UPPER REACH REMEDIAL ACTION KC001065			SMA 5 LAYOUT		
			01	Edition 01	Sheet 01

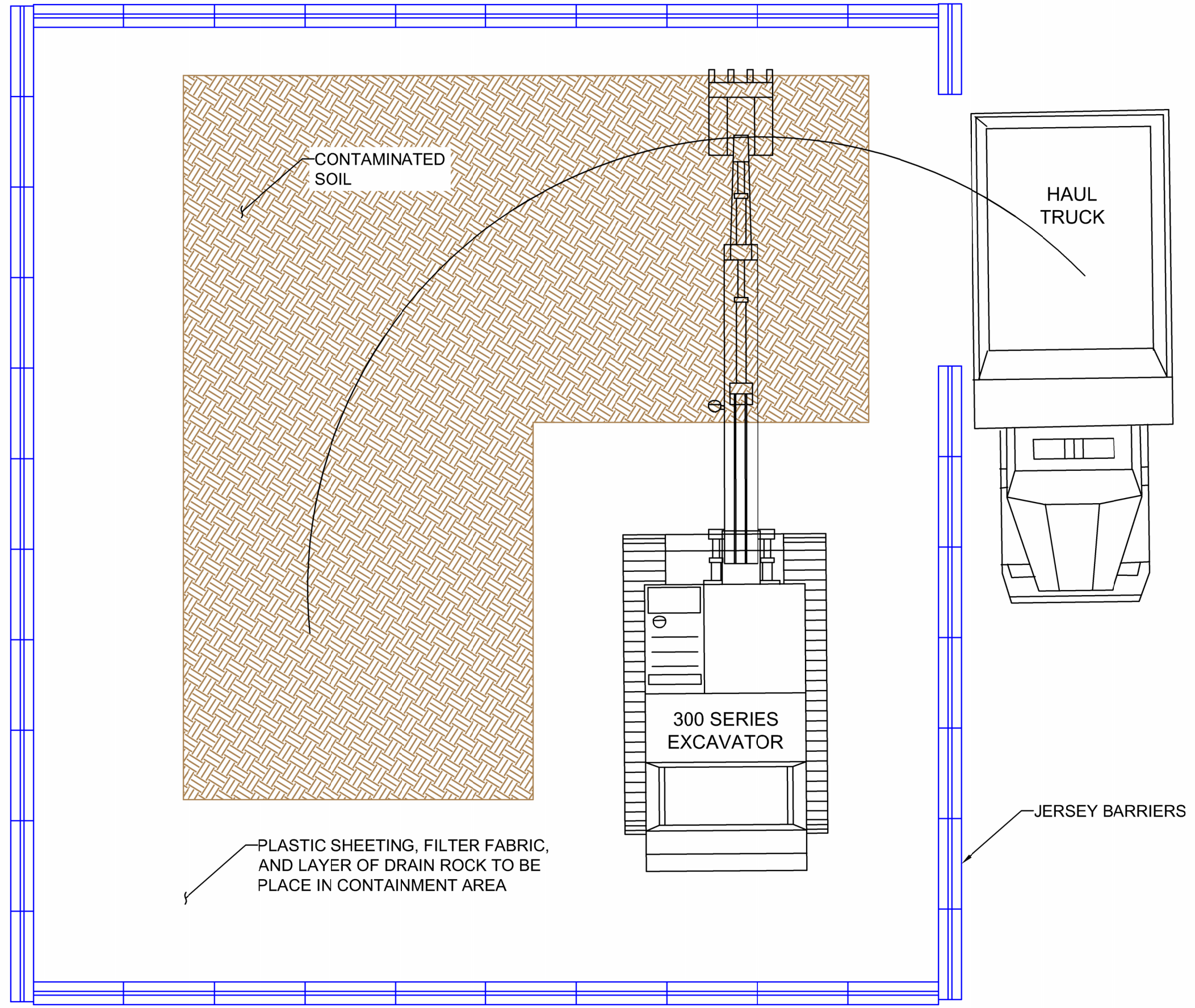
PROPOSED CROSS-SECTIONAL CONTAINMENT AREA



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LOWER DUWAMISH WATERWAY UPPER REACH REMEDIAL ACTION KC001065			SMA 5 LAYOUT		
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PROPOSED PLAN VIEW LOADING OF ON-ROAD HAUL TRUCKS

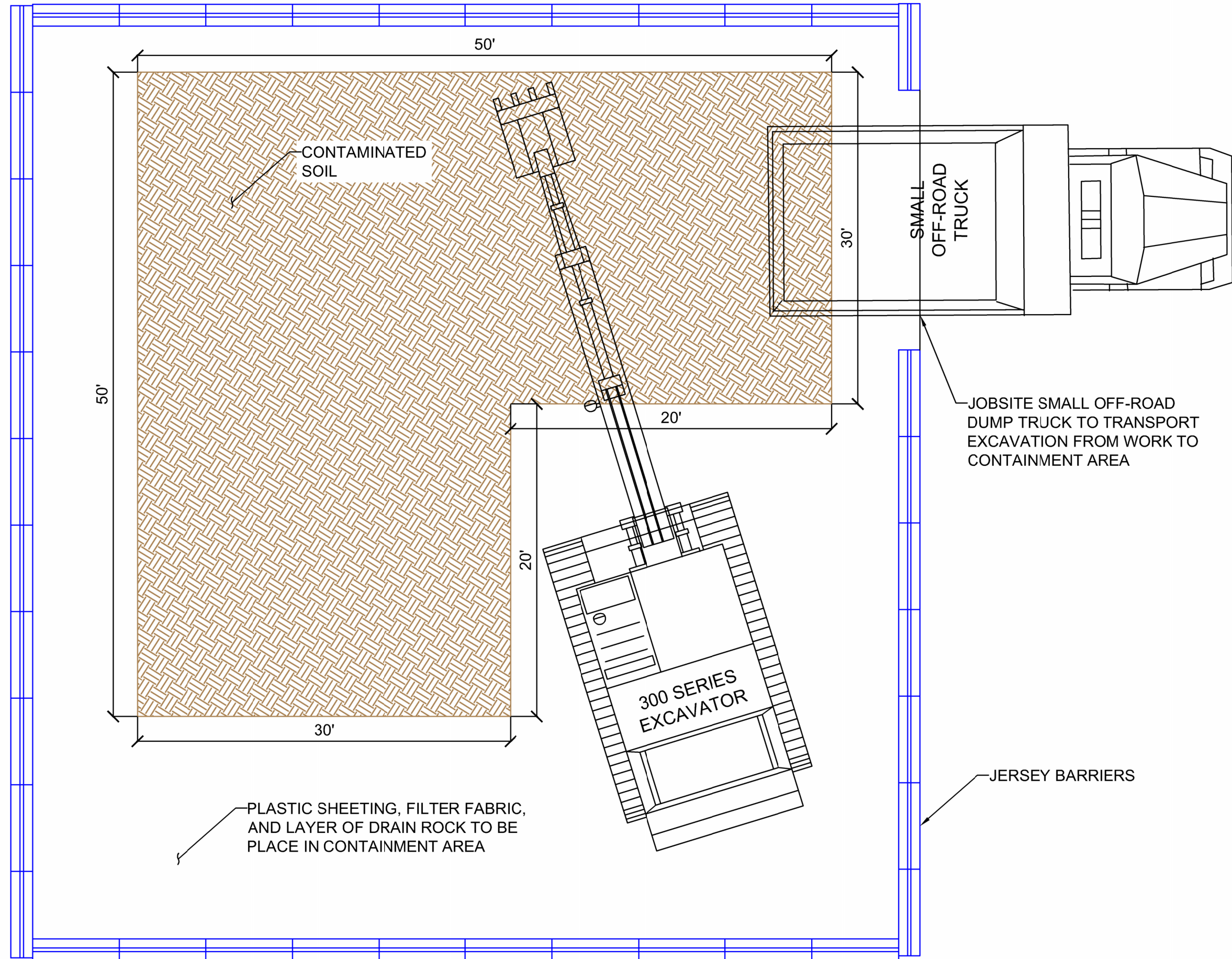


LOADING OF ON-ROAD HAUL TRUCKS

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LOWER DUWAMISH WATERWAY UPPER REACH REMEDIAL ACTION KC001065			SMA 5 LAYOUT		
			03	Edition 01	Sheet 03

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LOADING OF ON-ROAD HAUL TRUCKS

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			04	Edition 01	Sheet 04