



PER No.:	16-271
Tenant:	Summit Earthworks Inc.
Project:	Derwent Way Soil Transfer and Barge Facility
Project Location:	Lot located to the east of Derwent Way and south of Salter Street, New Westminster
VFPA SID No.:	NEW326
Land Use Designation:	Industrial
Permit Holder(s):	Summit Earthworks Inc.
Category of Review:	C
Date of Approval:	April 28, 2021
Date of Expiry:	April 30, 2023

PROJECT DESCRIPTION

For the purposes of this project permit, (the Permit), the project is understood to include the following works on Vancouver Fraser Port Authority (the Port Authority) property:

- Site clearing, stripping and grubbing;
- Ground densification, as necessary;
- Excavation below the covered soil storage area to a depth of approximately 1.5m;
- Construction of a lock block perimeter wall around the covered soil storage area measuring 2.25m above grade and 1.5m below grade;
- Construction of a 1,200 square metres lined and covered waste soil storage area designed to prevent infiltration into the underlying subgrade;
- Construction of a 0.3m high containment curb to the south and east of the truck unloading area and around the hopper to contain excess runoff;
- Construction of an ~2.5m noise barrier fence, tree barrier, and soil berm along the western boundary of the site;
- Grading and paving, including construction of an asphalt road and a compacted gravel area;
- Installation of a weigh scale measuring 18m x 3m, and a single-storey scale shack and scale house, each measuring 6m x 2.5m;
- Installation of a 2,500L fuel above-ground storage tank (AST) and concrete pad;
- Installation of a wheel wash station;
- Installation of a runoff water treatment facility and pump station measuring 8m x 3m and two (2) 19,000L water storage tanks;
- Installation of six (6) LED flood lights;
- Construction of four (4) vehicle parking spaces;
- Installation of a culvert;
- Installation of two (2) underground infiltration system trenches measuring 40m x 3m ;
- Installation of storm drains and catch basins;
- Installation of a concrete pad mounted hopper;
- Installation of an ~50m long covered barge loading conveyor and telescopic loading spout;
- Installation of a conveyor truss support comprised of two (2) ~0.3m diameter steel pipe piles each with one (1) ~0.25m diameter steel pile batter.
- Installation of four (4) mooring dolphins each comprised of a vertical ~0.9m diameter concrete filled steel pipe pile and two (2) ~0.6m diameter steel batter piles, mooring horns, and fenders.

PROJECT AND ENVIRONMENTAL CONDITIONS

The Vancouver Fraser Port Authority (the Port Authority) has undertaken and completed a review of the Project in accordance with the *Canada Marine Act* and Section 5 of the Port Authorities Operations Regulations and, as applicable, Section 67 of the *Canadian Environmental Assessment Act*, 2012.

If at any time the Permit Holder fails to comply with any of the project and environmental conditions set out in the Permit below, or if the Port Authority determines that the Permit Holder has provided any incomplete, incorrect or misleading information in relation to the Project, the Port Authority may, in its sole and absolute discretion, cancel its authorization for the Project or change the project and environmental conditions to which such authorization is subject.

Pursuant to Section 29 of the Port Authorities Operations Regulations, the Port Authority may also cancel its authorization for the Project, or change the project and environmental conditions to which such authorization is subject, if new information is made available to the Port Authority at any time in relation to the potential adverse environmental and other effects of the Project.

The following are the project and environmental conditions that must be followed by the Permit Holder to mitigate potential or foreseeable adverse environmental and other effects.

All the Port Authority Guidelines and Record Drawing Standards referenced in this document can be located at: <https://www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/>.

No.	GENERAL CONDITIONS
1.	The Permit Holder must have a valid lease, licence, or access agreement for the Project site prior to accessing the Project site or commencing construction or any other physical activities on the Project site. This Permit shall in no way limit any of the Permit Holder's obligations, or the Port Authority's rights, under such lease, licence, or access agreement.
2.	The Permit Holder shall at all times and in all respects, comply with and abide by all applicable statutes, laws, regulations and orders from time to time in force and effect, including all applicable environmental, labour and safety laws and regulations.
3.	This Permit in no way endorses or warrants the design, engineering, or construction of the Project and no person may rely upon this Permit for any purpose other than the fact that the Port Authority has permitted the construction of the Project, in accordance with the terms and conditions of this Permit.
4.	The Permit Holder shall indemnify and save harmless the Port Authority in respect of all claims, losses, costs, fines, penalties or other liabilities, including legal fees, arising out of: (a) any bodily injury or death, property damage or any loss or damage arising out of or in any way connected with the Project; and (b) any breach by the Permit Holder of its obligations under this Permit.
5.	The Permit Holder is responsible for locating all existing site services and utilities including any located underground. The Permit Holder is responsible for repair or replacement of any damage to existing site services and utilities, to the satisfaction of the Port Authority, that result from construction and operation of the Project.
6.	The Permit Holder shall undertake and deliver the Project to total completion in a professional, timely and diligent manner in accordance with applicable standards and specifications set out in the sections above entitled Project Description and Information Sources, including the attached plans and drawings numbered PER No. 16-271-A to J . The Permit Holder shall not carry out any other physical activities unless expressly authorized by the Port Authority.

7.	The Permit Holder shall cooperate fully with the Port Authority in respect of any review by the Port Authority of the Permit Holder's compliance with this Permit, including providing information and documentation in a timely manner, as required by the Port Authority. The Permit Holder is solely responsible for demonstrating the Permit Holder's compliance with this Permit.	
8.	The Permit Holder shall review the Permit with all employees, agents, contractors, licensees and invitees working on the Project site, prior to such parties participating in any construction or other physical activities on the Project site. The Permit Holder shall be solely responsible for ensuring that all such employees, agents, contractors, licensees and invitees comply with this Permit.	
9.	The Permit Holder shall make available upon request by any regulatory authority (such as a Fishery Officer) a copy of this Permit.	
10.	Unless otherwise specified, the Permit Holder shall provide all plans, documents, and notices required under this Permit to the following email address: per@portvancouver.com and referencing PER No.16-271 .	
11.	Unless otherwise specified, all plans, schedules, and other Project-related documentation that the Permit Holder is required to provide under this Permit must be to the Port Authority's satisfaction.	
12.	The Permit Holder shall prepare and submit a self-report form to the Port Authority demonstrating compliance with conditions at each of the following project phases: <ul style="list-style-type: none"> a) Prior to construction Conditions (self-report shall be submitted a minimum of 15 business days prior to the commencement of construction, or any physical activities, to a maximum of 90 business days prior to construction, or any physical activities). b) Construction Conditions (self-report shall be submitted a minimum of 60 business days (or a maximum of 80 business days) after construction has commenced, and every 120 to 140 business days after submission of the initial self-report during construction (i.e. after the first three months of construction, then every six months thereafter). c) Project completion Conditions (self-report shall be submitted within 60 business days of completion of construction). d) Prior to operation Conditions (self-report shall be submitted a minimum of 15 business days prior to the commencement of operations) 	
13.	The Port Authority shall have unfettered access to environmental compliance documentation and the Project site at all times during construction without notice.	
14.	The Permit Holder must maintain and retain any records associated with, or produced by, actions or activities undertaken to achieve compliance or that indicate non-compliance with project permit conditions. These records must be made available at the request of the Port Authority.	
15.	All conditions in this Permit which expressly or by their nature survive expiration or termination of this Permit will remain in effect after the expiration or termination of this Permit.	
	CONDITIONS - PRIOR TO COMMENCING CONSTRUCTION OR ANY PHYSICAL ACTIVITIES	SUBMISSION TIMING (Business Days)
16.	For structures and proposed interior changes to structures that are reviewable under the National Building Code and National Fire Code, the Permit Holder shall apply for a Port Authority Building Permit.	40 days before commencing construction or any physical activities
17.	At least two days prior to commencing any physical in water/barge activities, the Permit Holder shall notify the Harbour Master and the Port Authority Environmental Programs, email: Harbour_Master@portvancouver.com and EnvironmentalPrograms@portvancouver.com .	2 days before commencing in-water/barge activities

18.	The Permit Holder shall submit signed and sealed drawings for proposed works approved for construction (including details of the roof structure and barge loading conveyor system) by a professional engineer licensed to practice in the Province of British Columbia.	5 days before commencing construction or any physical activities
19.	The Permit Holder shall submit a draft construction communications plan, construction notification, construction sign, and draft operations communications plan in accordance with the Port Authority's Public Engagement Guidelines, available at: https://www.portvancouver.com/permitting-and-reviews/per/project-and-environment-review-applicant/guidelines/ . The communications plans shall outline how the Permit Holder will engage and communicate with the public and stakeholders from the date of permit issuance to the completion of construction, and throughout operations, respectively. The plans shall be updated as necessary and upon request by the Port Authority to ensure public and stakeholders are provided with relevant information as it becomes available. The Permit Holder shall carry out each phase of the Project in accordance with the construction communications plans, and any subsequent amendments approved by the Port Authority.	20 days before commencing construction or any physical activities, and 20 days before commencing operations, respectively
20.	The Permit Holder shall distribute an approved construction notification to residents and businesses within an area consistent with the Applicant's previous notifications, as specified in the report. The Permit Holder shall notify the Port Authority when such distribution has been completed. The Permit Holder shall also install the approved construction sign in a mutually agreed location and notify the Port Authority of installation.	10 days before commencing construction or any physical activities
21.	The Permit Holder shall submit a construction parking and traffic management plan to the Port Authority's satisfaction. The Permit Holder shall carry out the Project in accordance with the construction parking and traffic management plan, and any subsequent amendments approved by the Port Authority.	20 days before commencing construction or any physical activities
22.	The Permit Holder shall submit an Archaeological Chance Find Procedure for the Project site, to the Port Authority's satisfaction. The Permit Holder shall carry out the Project in accordance with this Procedure, and any subsequent amendments approved by the Port Authority.	30 days before commencing construction or any physical activities
23.	If there is potential to affect birds and/or their active nests and eggs, the Permit Holder shall conduct nest surveys. For any nests identified in surveys, a qualified environmental professional shall confirm that the nest is not occupied by a species protected at that time of year under applicable legislation. To reduce the risk of Project-related harm, the Permit Holder should avoid certain physical activities during the general bird breeding season, which falls between April 1 and July 31, or outside of this time span if occupied nests are present.	Immediately prior to activities with the potential to affect birds and/or their active nests and eggs
24.	The Permit Holder shall submit a marine construction and staging plan to the Port Authority and the Greater Vancouver Water District's satisfaction, which includes: <ul style="list-style-type: none"> • Staging and construction areas shown on a map, (in relation to Navigation channel) including means of securing to the seabed or mobile with tug; • Dates and hours of operation; • Description of activities taking place; 	30 days before commencing construction or any physical activities

	<ul style="list-style-type: none"> • Equipment and vessels (dimensions must be included); • Method of preferred communication with marine users; • Identification of potential navigation related hazards and risk mitigation measures from construction related activities; • The location of GVWD's Annacis Main No. 2 at Derwent Way Bridge. <p>The Permit Holder shall carry out the Project in accordance with the marine construction and staging plan, including any subsequent updates made to the Port Authority's satisfaction.</p>	
25.	Prior to the commencement of any vessel-related activities, the Permit Holder shall contact CCG Marine Communications and Traffic Services (MCTS), (email: NAVWARN.MCTSPRinceRupert@innav.gc.ca Telephone: 250-627-3070) regarding the issuance of a Navigational Warning (NAVWARN) to advise the marine community of potential hazards associated with the Project.	As per Coast Guard requirements
26.	The Permit Holder shall submit an updated geotechnical report and/or an additional geotechnical memo by a professional engineer licensed to practice in the Province of British Columbia, to the Port Authority's satisfaction, following further geotechnical investigations on site to determine whether ground stabilization is required.	40 days before commencing construction or any physical activities
27.	The Permit Holder shall submit details, including drawings, of any proposed ground stabilization works, as required, to the Port Authority's satisfaction.	40 days before commencing construction or any physical activities
28.	The Permit Holder shall submit an updated Construction Environmental Management Plan (CEMP), which includes mitigations in relation to ground stabilization works, as required, to the Port Authority's satisfaction. The Permit Holder shall carry out the Project in accordance with the CEMP, and any subsequent amendments approved by the Port Authority.	20 days before commencing construction or any physical activities
29.	The Permit Holder shall provide a survey monitoring plan to the satisfaction of the Port Authority. The survey plan shall monitor settlement and vibration in relation to the SRY rail line and adjacent ground surface, and the Annacis Island Swing Bridge. The plan shall provide details of monitoring locations, "caution" and "alarm" values and reporting procedures. The Permit Holder shall carry out monitoring in accordance with the approved survey monitoring plan, and any subsequent amendments approved by the Port Authority.	40 days before commencing construction or any physical activities
30.	The Permit Holder shall provide a Project schedule to the Port Authority showing the anticipated start dates for all major phases of the Project as identified by the Port Authority. The Permit Holder shall notify the Port Authority of any material changes to the Project schedule and, upon request, shall provide an updated Project schedule.	20 days before commencing construction or any physical activities
CONDITIONS - DURING CONSTRUCTION OR ANY PHYSICAL ACTIVITIES		
31.	The Permit Holder shall notify the Port Authority upon commencement of construction, or any physical activities (e.g., mobilization to the Project site).	
32.	All general construction and physical activities related to the Project shall be conducted from Monday to Saturday between the hours of 7:00 am and 8:00 pm . No construction and physical activities shall take place on Sundays or holidays. These hours shall not be modified without prior approval of the	

	Port Authority. To request permission to conduct activities outside these hours, the Permit Holder must submit a written request no less than 30 business days prior to the desired start date.
33.	Prior to commencing construction or any physical activities, the Permit Holder shall have in place a spill prevention, containment and clean-up plan for hydrocarbon products (including fuel, oil and hydraulic fluid) and any other deleterious substances. Appropriate spill containment and clean-up supplies shall be available on the Project site at all times and all personnel working on the Project shall be trained on the spill prevention, containment and clean-up plan. The Permit Holder shall carry out the Project in accordance with the spill prevention, containment and clean-up plan.
34.	The Permit Holder shall notify the Port Authority of any complaints received from the community and stakeholders during construction and throughout operations within 2 business days of being received, and indicate how the Permit Holder has responded to such complaints.
35.	If the Permit Holder encounters, expects to encounter, or should expect to encounter an actual or potential archaeological resource, the Permit Holder shall: <ul style="list-style-type: none"> a) Immediately stop any activities that may disturb the archaeological resource or the site in which it is contained (Site); b) Not move or otherwise disturb the archaeological resource or other remains present at the Site; c) Stake or flag the Site to prevent additional disturbances; and, d) Immediately notify the Port Authority by email and phone.
36.	The Permit Holder may place temporary construction trailers on the Project site while this Permit remains in effect, provided that the Permit Holder does not connect such trailers to any underground utilities without the prior written consent of the Port Authority which may require, at the Port Authority's discretion, a Port Authority Building Permit.
37.	The Permit Holder shall carry out the Project in accordance with the Construction Environmental Management Plan (CEMP), the Stormwater Pollution Prevention Plan (SPPP), and the Vegetation Plan, provided by the Permit Holder, and any subsequent updates made to the Port Authority's satisfaction.
38.	Without limiting the generality of permit condition #2, the Permit Holder shall not, directly or indirectly: (a) deposit or permit the deposit of a deleterious substance of any type in water frequented by fish in a manner contrary to Section 36 of the <i>Fisheries Act</i> ; or (b) adversely affect fish or fish habitat in a manner contrary to Section 35 of the <i>Fisheries Act</i> .
39.	There shall be no in-water works during the fisheries sensitive period from March 1 to June 15, inclusive, unless otherwise approved in writing by DFO or the Port Authority. The Port Authority shall be notified of any DFO exemptions allowing works within the fisheries sensitive period.
40.	The Permit Holder shall not disturb the riverbed outside the Project site.
41.	Piles shall be driven with a vibratory or drop hammer. Piles shall not be installed using a diesel or hydraulic hammer or other technology such as drilling without review and authorization by the Port Authority.
42.	The Permit Holder shall immediately cease work and notify the Port Authority if the Permit Holder has reasonable grounds to believe that the Project has harmed fish or fish habitat, including observation of distressed, injured, or dead fish. The Permit Holder shall not resume work until authorized by the Port Authority.
43.	The Permit Holder shall cap any exposed hollow pipe piles to prevent wildlife entrapment.

44.	Sediments contained within piles after driving shall be left in place. If it is determined that they must be removed for engineering reasons, the Permit Holder shall consult the Port Authority for review and authorization prior to initiating the proposed physical activities
45.	The Permit Holder shall not permit barges or other vessels used during the project to ground on the foreshore or river/seabed or otherwise disturb the foreshore or river/seabed (including disturbance as a result of vessel propeller wash), excepting only such disturbance as is reasonably required resulting from the use of barge spuds.
46.	The Permit Holder shall repair and/or remediate any damage or erosion resulting from disturbance to the intertidal zone during the Project.
47.	The Permit Holder shall use an environmentally clean clamshell bucket. The bucket and any portion of the cables that will be in contact with or near the water shall be cleaned of any residual hydrocarbons or other contaminants prior to the start of works.
48.	Trees shall be felled by an appropriate professional.
49.	The Permit Holder shall manage invasive plants in a manner that prevents their spread. Invasive plants and potentially affected materials, such as soil, shall be appropriately contained, collected and disposed of.
50.	<p>The Permit Holder shall not permit sediment, sediment-laden waters, or other deleterious substances to enter the water during the Project. The Permit Holder shall carry out all physical activities in a manner that prevents induced sedimentation of foreshore and near shore areas and induced turbidity of local waters, and the release of sediment, sediment-laden waters, and turbid waters to the aquatic environment. The Permit Holder shall manage turbidity in compliance with the following water quality criteria:</p> <ul style="list-style-type: none"> a) When background is less than or equal to 50 nephelometric turbidity units (NTU), induced turbidity shall not exceed 5 NTU above the background values; and b) When background is greater than 50 NTU, induced turbidity shall not exceed the background values by more than 10% of the background value. <p>For the purposes of this condition, “background” means the level at an appropriate adjacent reference site (as determined to the satisfaction of the Port Authority) that is affected neither by physical activities at the Project site, nor sediment-laden or turbid waters resulting from physical activities at the Project site.</p>
51.	The Permit Holder shall ensure that all equipment is in good mechanical condition and maintained free of fluid leaks, invasive species, and noxious weeds.
52.	During upland construction activities, the Permit Holder shall not conduct refueling or maintenance activities on non-road equipment within 30 metres of any waterbody, or in an area where run-off may potentially reach surface waterbodies. Fuel and other hydrocarbon inventories shall not be stored in such areas, temporarily or otherwise.
53.	Without limiting the generality of permit condition #2, if suspect contaminated materials are encountered, the Permit Holder shall contain, test and dispose of such materials at appropriate licensed off-site facilities and maintain records of off-site disposal. The Port Authority shall be notified of such activities and provided relevant documentation upon completion.
54.	The Permit Holder shall dispose of any soils excavated from the Project site that are not suitable for backfill at appropriate off-site facilities and maintain records of off-site disposal.
55.	The Permit Holder shall not dewater excavations unless a dewatering plan has been submitted to the Port Authority's satisfaction.

56.	If suspect contaminated materials are encountered, the Permit Holder shall contain, test and dispose of such materials at appropriate licensed off-site facilities and maintain records of off-site disposal. The Port Authority shall be notified of such activities and provided relevant documentation upon completion.
57.	The Permit Holder shall conduct all work associated with the Project involving the use of concrete, cement, mortars and other Portland cement or lime-containing construction materials so as to ensure that sediments, debris, concrete (cured or uncured), and concrete fines are not deposited into the aquatic environment, either directly or indirectly. Water that has contacted uncured or partly cured concrete or Portland cement or lime-containing construction materials, such as the water that may be used for exposed aggregate wash-off, wet curing, equipment and truck washing, etc. shall not be permitted to enter the aquatic environment. The Permit Holder shall provide containment facilities at the site for the wash-down water from concrete delivery trucks, concrete pumping equipment, and other tools and equipment, as required.
58.	The Permit Holder shall contain and collect debris and waste material in the immediate working area within the Project site. The Permit Holder shall dispose of waste material at suitable upland locations and maintain records of off-site disposal.
59.	Without limiting the generality of permit condition #2, storage tank removal, installation and operation shall meet the requirements of the Petroleum Products and Allied Petroleum Products Storage Tank Systems Regulations and the CCME Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products.
60.	Air emissions from vehicle/equipment exhaust, dust and vapours shall be minimized and managed to avoid effects on and off the Project site. More detailed guidance is available in Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities prepared for Environment Canada (Cheminfo Services Inc. March 2005).
61.	All non-road diesel equipment in use within Port Authority jurisdiction shall be reported as required under the Non-Road Diesel Equipment Program (https://www.portvancouver.com/environmental-protection-at-the-port-of-vancouver/climate-action-at-the-port-of-vancouver/non-road-diesel-emissions-program/)
62.	During any vessel-related activities, the Permit Holder shall: <ul style="list-style-type: none"> a) Position vessels and equipment associated with the Project in such a manner so as not to obstruct line of sight to navigational aids or markers; b) Exhibit the appropriate lights and day shapes at all times; c) Monitor the VHF channel used for MCTS communications in the respective area at all times and participate as necessary; d) Be familiar with vessel movements in areas affected by the Project. e) Plan and execute the Project in a manner that will not impede navigation or interfere with vessel operations; and, f) During night hours, unless working 24 hours per day, ensure that the rig and associated equipment is moored outside the navigation channel and lit in accordance with all applicable regulations.
63.	The Permit Holder, or their contractor, shall engage a qualified environmental professional to monitor the Project in order to ensure that the works are carried out in compliance with this Permit. Monitoring events shall take place as required by the environmental monitor, the Construction Environmental Management Plan, or the Port Authority, provided that monitoring will be full time when works are underway that have the potential to adversely affect fish or fish habitat.
64.	The Permit Holder shall provide environmental monitoring reports to the Port Authority as specified in the Construction Environmental Management Plan or more frequently if the Port Authority requires. In

	addition, a summary report for the whole monitoring period shall be forwarded to the Port Authority within 30 days of the conclusion of the monitoring period.	
	CONDITIONS – PRIOR TO OPERATION AND DURING OPERATIONS	SUBMISSION TIMING (Business Days)
65.	<p>The Permit Holder shall provide an Air Emissions Management Plan in accordance with the Port Authority guidelines and to the Port Authority’s satisfaction. The plan shall include:</p> <ul style="list-style-type: none"> a) AEMP objective, scope and management plan duration b) Site emissions assessment c) Project mitigation measures d) Management of community complaints e) Monitoring, tracking and reporting of performance <p>The Permit Holder shall carry out the Project and site operations in accordance with the approved air emissions management plan, including any subsequent amendments approved by the Port Authority.</p>	90 days before commencing operations
66.	The Permit Holder shall provide the Port Authority a summary of stormwater discharge water quality data and any adaptive management implemented at the site for the first year of operations. Sampling shall be conducted in accordance with the submitted Stormwater Pollution Prevention Plan.	During Operations
67.	The Permit Holder shall conduct an annual assessment of planted vegetation for three years post planting to ensure the planted vegetation has a survival rate of 90% or greater. The Permit Holder shall submit an annual report to the port authority.	During Operations
68.	The Permit Holder shall prepare a noise monitoring, plan to be submitted prior to monitoring for approval by the Port Authority, to assess the noise levels within the surrounding community and determine the relative contribution from the facility. The monitoring shall capture two week days and a two weekend days, and be conducted in accordance with the Port Authority Environmental Noise Assessment guideline. The Permit Holder shall provide the final report to the Port Authority, and the Port Authority may require additional mitigation measures based on the findings of the report.	Prior to operations or at the direction of the Port Authority
69.	The Permit Holder shall prepare an air emissions sampling plan to be submitted prior to monitoring for approval by the Port Authority, to assess particulate matter concentrations within the surrounding community and determine the relative contribution from the facility. The monitoring shall measure particulate matter at a suitable location(s) and for an appropriate time period as determined in consultation with the Port Authority environmental program staff. The Permit Holder shall provide the final report to the Port Authority, and the Port Authority may require additional mitigations to be included in the Air Emissions Management Plan.	Prior to operations or at or at the direction by the Port Authority
70.	The Permit Holder shall carry out operations in accordance with the approved Site Access Route Plan and Traffic Route Plan Map, and any subsequent amendments approved by the Port Authority.	
71.	The Permit Holder shall ensure that the noise barrier along the western edge of the facility is the appropriate height for the sound absorption wall design, conforms to the British Columbia Ministry of	

	Transport and Infrastructure <i>Standard Specifications for Highway Construction</i> , is sourced from the <i>Recognized Product List</i> of suppliers, and is kept in a good condition.	
	CONDITIONS - UPON COMPLETION	SUBMISSION TIMING (Business Days)
72.	The Permit Holder shall notify the Port Authority upon completion of the Project.	Upon substantial completion
73.	The Permit Holder shall provide record drawings in accordance with the Port Authority's Record Drawing Standards, in both AutoCAD and Adobe (PDF) format to the Port Authority, including a Project site plan that clearly identifies the location of works.	Within 40 days of completion
74.	The Permit Holder must send record drawings of all newly constructed marine works to the Database Information Office of the Canadian Hydrographic Service (250-363-6360 or chsdatacentre@dfo-mpo.gc.ca) to arrange for the relevant Canadian Hydrographic Service charts to be updated. VFPA's Marine Operations department must be carbon copied into the request (navigation.review@portvancouver.com).	Within 40 days of completion
The Port Authority reserves the right to rescind or revise these conditions at any time that new information warranting this action is made available to the Port Authority.		
LENGTH OF PERMIT VALIDITY		
The Project must commence be completed no later than April 30, 2023 (the Expiry Date).		
AMENDMENTS		
<ul style="list-style-type: none"> Details of any material proposed changes to the Project, including days and hours when construction and any physical activities will be conducted, must be submitted to the Port Authority for consideration of an amendment to this Permit. For an extension to the Expiry Date, the Permit Holder must apply in writing to the Port Authority no later than 40 days prior to that date. <p>Failure to apply for an extension as required may, at the sole discretion of the Port Authority, result in termination of this Permit.</p>		

PROJECT AND ENVIRONMENTAL REVIEW DECISION

Project Permit PER No. 16-271 is approved by:

ORIGINAL COPY SIGNED

JENNIFER NATLAND
DIRECTOR, PLANNING & DEVELOPMENT

April 28, 2021

DATE OF APPROVAL

CONTACT INFORMATION




Vancouver Fraser Port Authority (the Port Authority)
100 The Pointe, 999 Canada Place,
Vancouver BC V6C 3T4 Canada

Project & Environmental Review
Tel.: 604-665-9047
Fax: 1-866-284-4271
Email: PER@portvancouver.com
Website: www.portvancouver.com

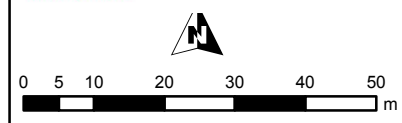
Derwent Way Soil Transfer and Barge Facility

PER #16-271

Project Location:
400 Salter St
New Westminister, BC

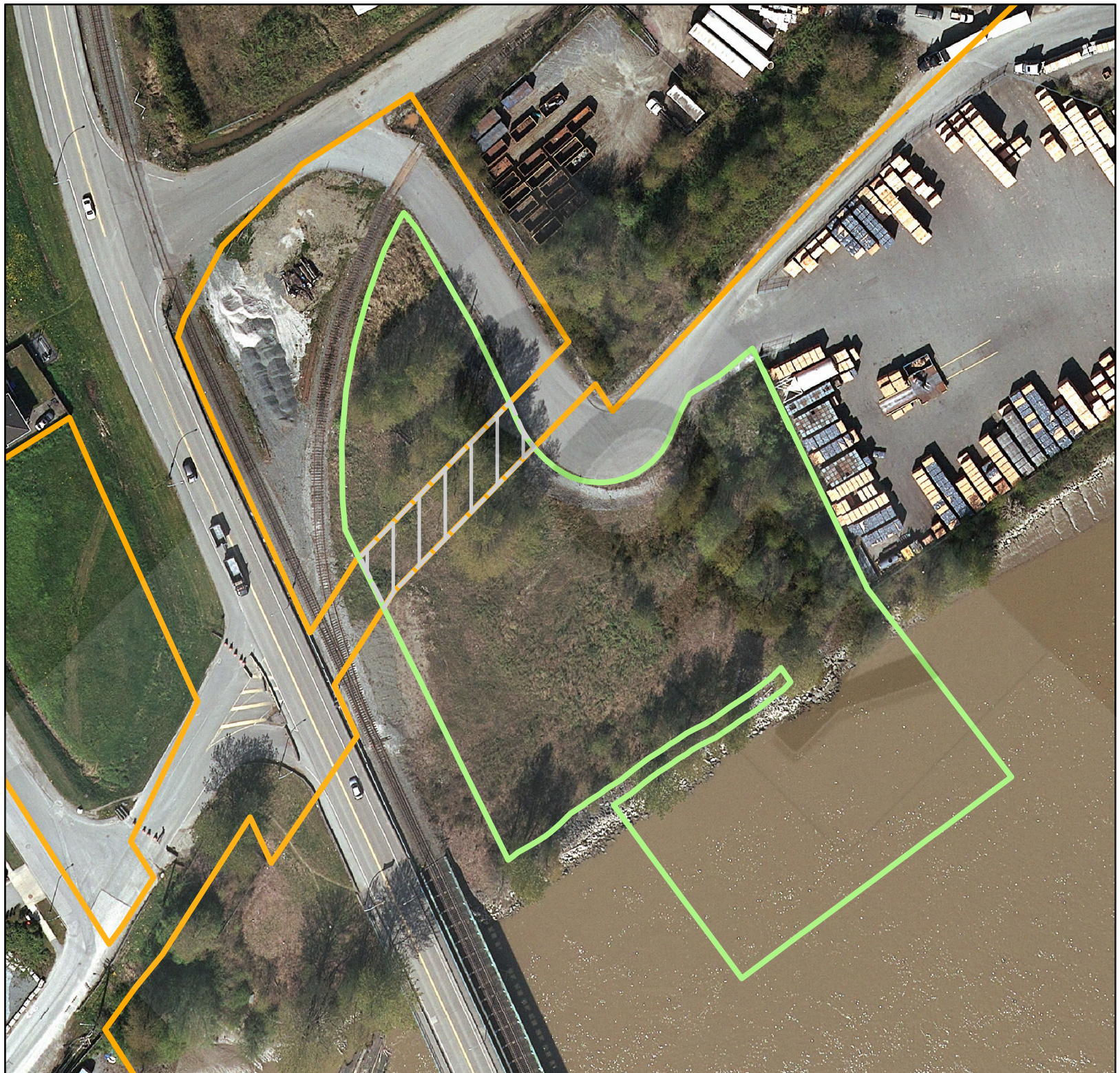
-  Project Location
-  Dyke Reserve Overlap
-  VFPA Boundary

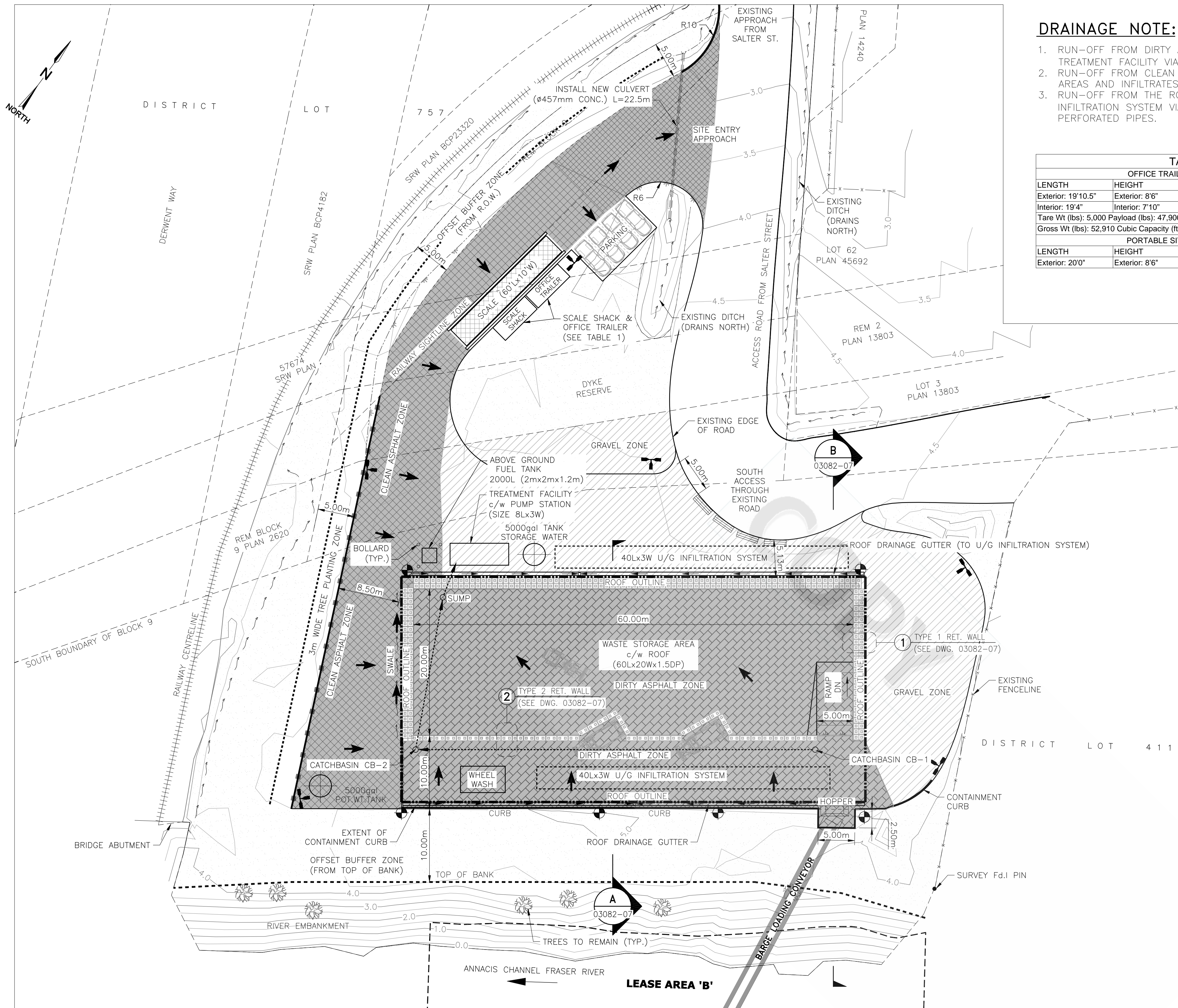
VANCOUVER FRASER PORT AUTHORITY
 This drawing has been reviewed by the Vancouver Fraser Port Authority solely for the purpose of VFPA's issuance of a Project Permit. This permit in no way denotes design, engineering or structural approval or endorsement.



 **PORT of vancouver**
 VFPA Spatial Data Group
 December 15, 2016
 PLAN # G2016-143

Any areas marked "proposed" represent approximate locations.





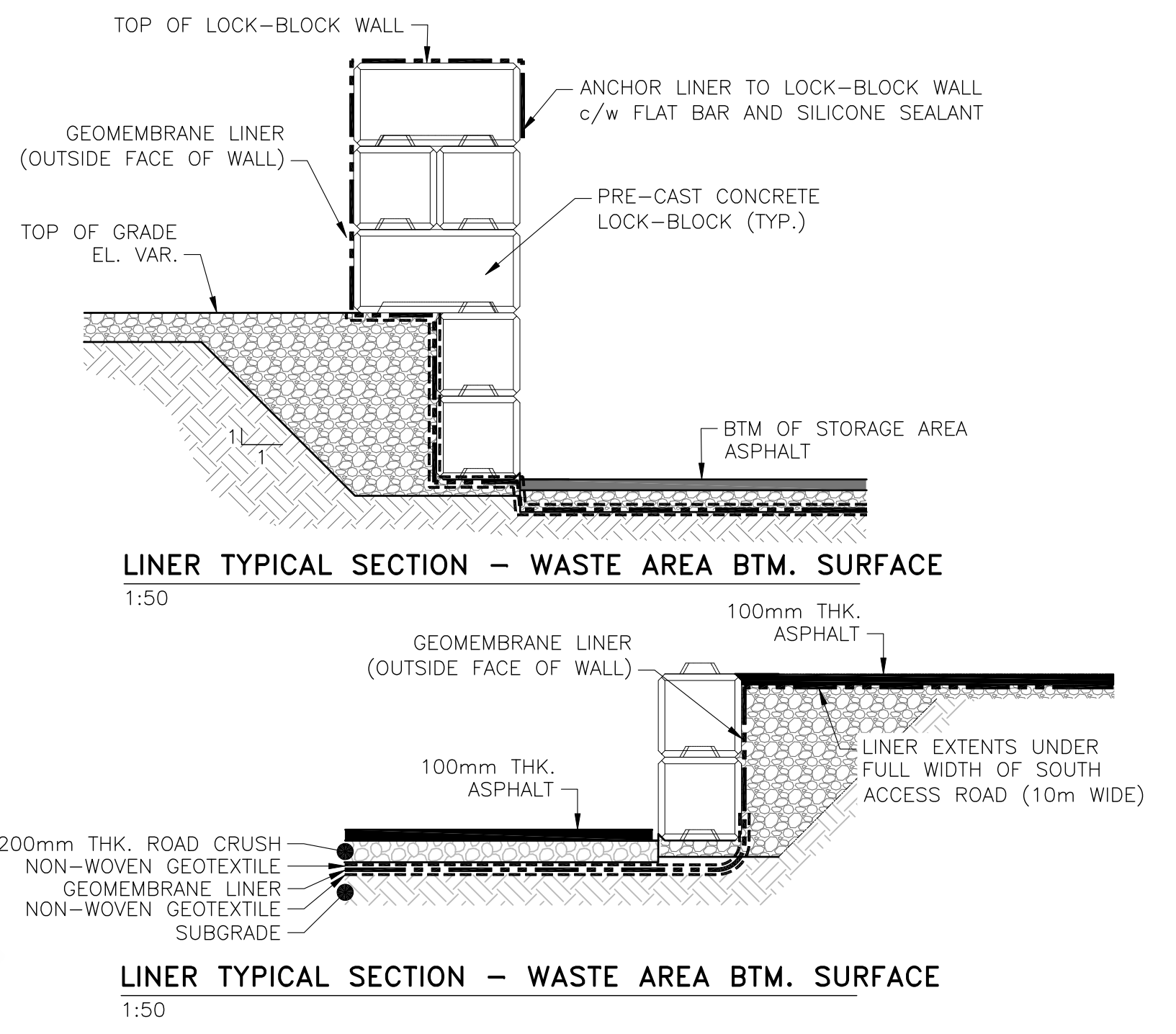
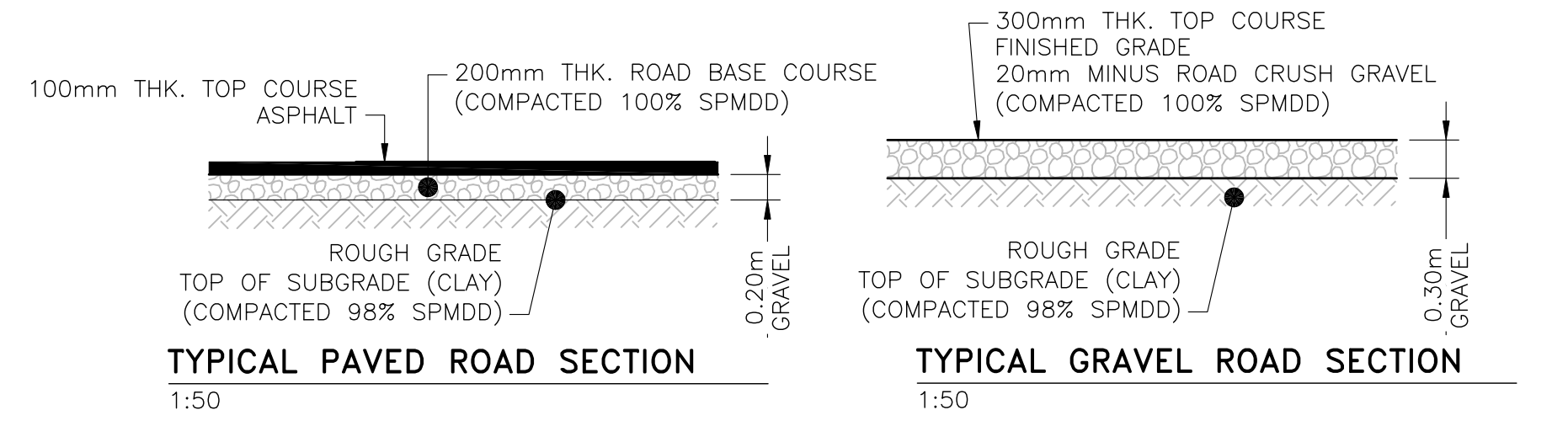
DRAINAGE NOTE:

1. RUN-OFF FROM DIRTY ASPHALT DRAINS TO THE TREATMENT FACILITY VIA. CATCHBASINS & U/G PIPES.
2. RUN-OFF FROM CLEAN ASPHALT SLOPES TO GRAVEL AREAS AND INFILTRATES THROUGH THE GRAVEL.
3. RUN-OFF FROM THE ROOF DRAINS TO THE BURIED INFILTRATION SYSTEM VIA GUTTER, DOWNSPOUTS & U/G PERFORATED PIPES.

TABLE 1 OFFICE TRAILER / SCALE SHACK			
LENGTH	HEIGHT	WIDTH	DOOR OPEN
Exterior: 19'10.5"	Exterior: 8'6"	Exterior: 8'0"	Width: 7'8.5"
Interior: 19'4"	Interior: 7'10"	Interior: 7'8.5"	Height: 7'6"
Tare Wt (lbs): 5,000 Payload (lbs): 47,900			
Gross Wt (lbs): 52,910 Cubic Capacity (ft3): 986			
PORTABLE SITE OFFICE TRAILER			
LENGTH	HEIGHT	WIDTH	
Exterior: 20'0"	Exterior: 8'6"	Exterior: 8'0"	

LEGEND:

- [Symbol] LOCK-BLOCK RETAINING WALLS
- [Symbol] LEGAL PLAN RIGHT OF WAYS (R/W)
- [Symbol] DRAINAGE DITCH/SWALE c/w DIRECTION ARROW
- [Symbol] LEAK DETECTION MONITORING WELL
- [Symbol] CONTOUR LINE (0.5m INTERVALS)
- [Symbol] EXISTING CENTERLINE OF RAIL
- [Symbol] EXISTING FENCELINE
- [Symbol] NOISE BARRIER & TREE PLANTING ZONE
- [Symbol] OVERLAND FLOW (ASPHALT SURFACE) - DRAINAGE DIRECTION
- [Symbol] NEW U/G DRAINAGE CULVERT
- [Symbol] LIGHT POLE
- [Symbol] CLEAN ASPHALT PAVED SURFACE
- [Symbol] DIRTY ASPHALT PAVED SURFACE
- [Symbol] GRAVEL SURFACE
- [Symbol] VEGETATED AREAS (GRASS/PLANTS)
- [Symbol] CONCRETE JERSEY BARRIER
- [Symbol] DRAINAGE CATCHBASIN c/w BURIED PVC PIPE



REFERENCE DRAWINGS		REVISIONS						
NUMBER	TITLE	NO.	ISSUE	DATE	BY	CHK'D	ENG	APP'D
03082-07	RETAINING WALL DETAILS	A	ISSUED FOR 50% DESIGN	2017.AUG.15	MOH	CT	DM	CT
		B	ISSUED FOR 90% DESIGN	2017.NOV.10	MOH	CT	DM	CT
		C	ISSUED FOR PERMIT	2018.MAY.29	MOH	CT	DM	CT
		D	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT	DM	CT
		E	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT	DM	CT
		F	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT	DM	CT

NOTES

1. GENERAL NOTES FOR CIVIL CONSTRUCTION SEE DRAWING 03082-01
2. ALL COORDINATES, ELEVATIONS, AND DIMENSIONS ARE IN METERS, U.N.O.
3. TOPOGRAPHY DATA IS DERIVED FROM HIGHMARK SURVEY AND ENGINEERING LTD. NOV. 2015. DRAWING NUMBER: T00006D

ORIGINAL SHEET SIZE 'ANSI D'
1:300
0 5 10m
PRINTED SHEET SIZE 17"x11"
1:600
0 5 10m

PERMIT AND ENGINEER STAMP

VANCOUVER FRASER PORT AUTHORITY

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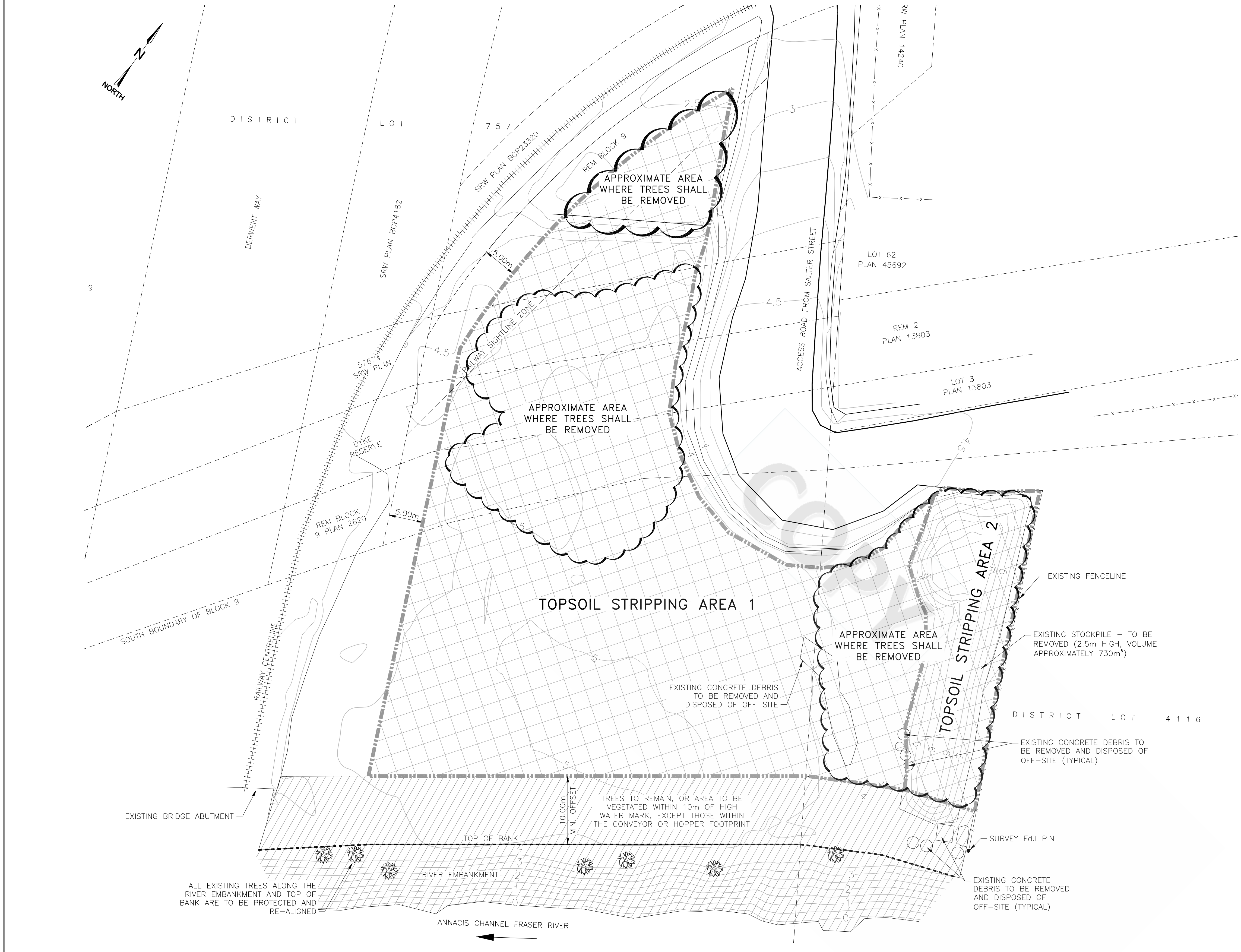
TETRA TECH
VGEO03082-01

SUMMIT EARTHWORKS

LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

NEW WESTMINSTER, BC
DERWENT WAY TRANSFER STATION
GENERAL ARRANGEMENT - SITE PLAN

CADFILE	03082-04	DRAWING NO.	03082-04	REV.	F
SCALE	1:300				



NOTES:

1. GENERAL NOTES FOR CIVIL CONSTRUCTION SEE DRAWING 03082-01
2. ALL COORDINATES, ELEVATIONS, AND DIMENSIONS ARE IN METERS, U.N.O.
3. TOPOGRAPHY DATA IS DERIVED FROM HIGHMARK SURVEY AND ENGINEERING LTD. OCT. 2015. DRAWING NUMBER: T00006D.
3. BEARINGS ARE GRID AND ARE DERIVED FROM PLAN EPP4663. ELEVATIONS ARE ORTHOMETRIC AND ARE BASED ON ISA MONUMENT 89H6025.

SITE BENCHMARKS AND COORDINATES			
DESCRIPTION	ID.	NORTHING	EASTING
SITE BENCHMARK #1	T.B.D.	T.B.D.	T.B.D.
SITE BENCHMARK #2	T.B.D.	T.B.D.	T.B.D.

LEGEND:

- STRIPPING AND GRUBBING BOUNDARY EXTENTS
- LIMITS OF STRIPPING AND GRABBING AREAS
- LEGAL PLAN RIGHT OF WAYS (R/W)
- EXISTING CENTERLINE OF RAIL
- EXISTING FENCELINE
- EXISTING DECIDUOUS TREES ON EMBANKMENT TO REMAIN
- EXISTING TREES TO BE REMOVED
- EXISTING TREE AREA TO REMAIN (ALONG RIVER EMBANKMENT AND WITHIN 10m OF HIGHWATER MARK)
- EXISTING CONTOURS (0.5m INTERVALS)

QUANTITIES TABLE		
DESCRIPTION	2D AREA (m ²)	VOLUME (m ³)
TOPSOIL STRIPPING AREA #1 (AVERAGE DEPTH OF TOPSOIL = 200mm)	4386	877
TOPSOIL STRIPPING AREA #2 (EXISTING STOCKPILE)	650	800

REFERENCE DRAWINGS		REVISIONS							
NUMBER	TITLE	NO.	ISSUE	DATE	BY	CHK'D	ENG	APP'D	
		A	ISSUED FOR 50% DESIGN	2017.AUG.15	MOH	CT	DM	CT	
		B	ISSUED FOR 90% DESIGN	2017.NOV.10	MOH	CT	DM	CT	
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		D	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT	DM	CT	
		E	ISSUED FOR PERMIT	2018.OCT.05	MOH	CT	DM	CT	
		F	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT	DM	CT	
		G	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT	DM	CT	

NOTES

PERMIT AND ENGINEER STAMP

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ORIGINAL SHEET SIZE 'ANSI D'
1:300

PRINTED SHEET SIZE 17"x11"
1:600



LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

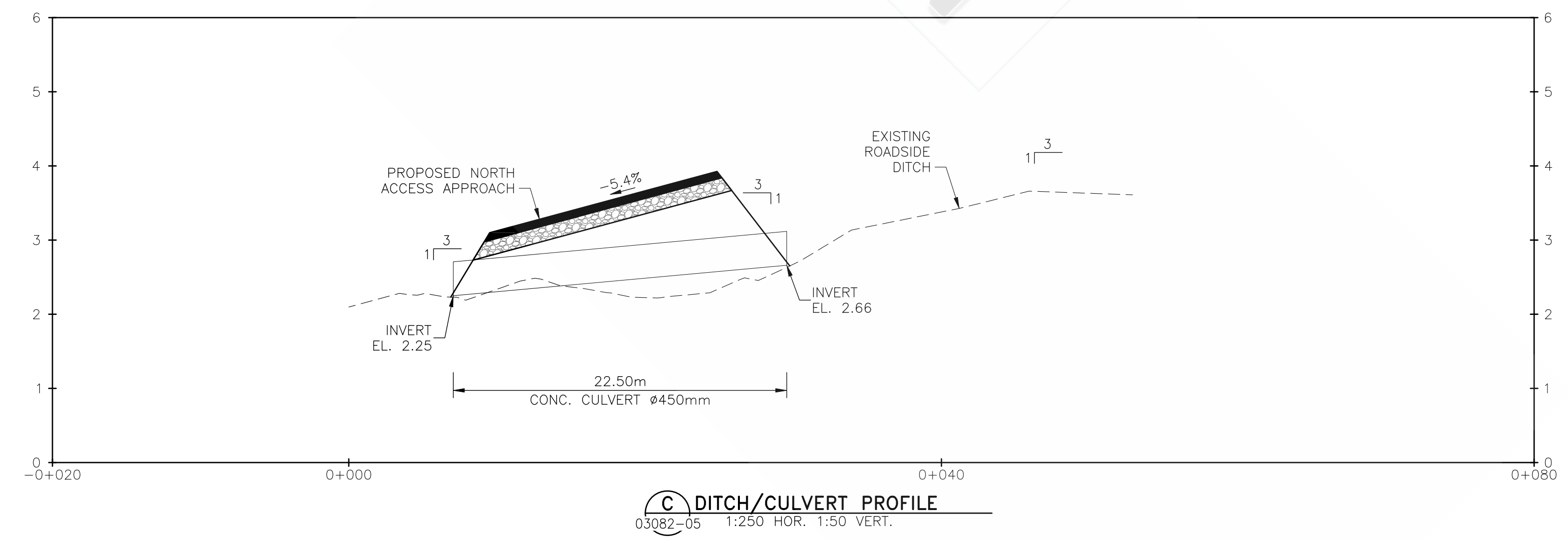
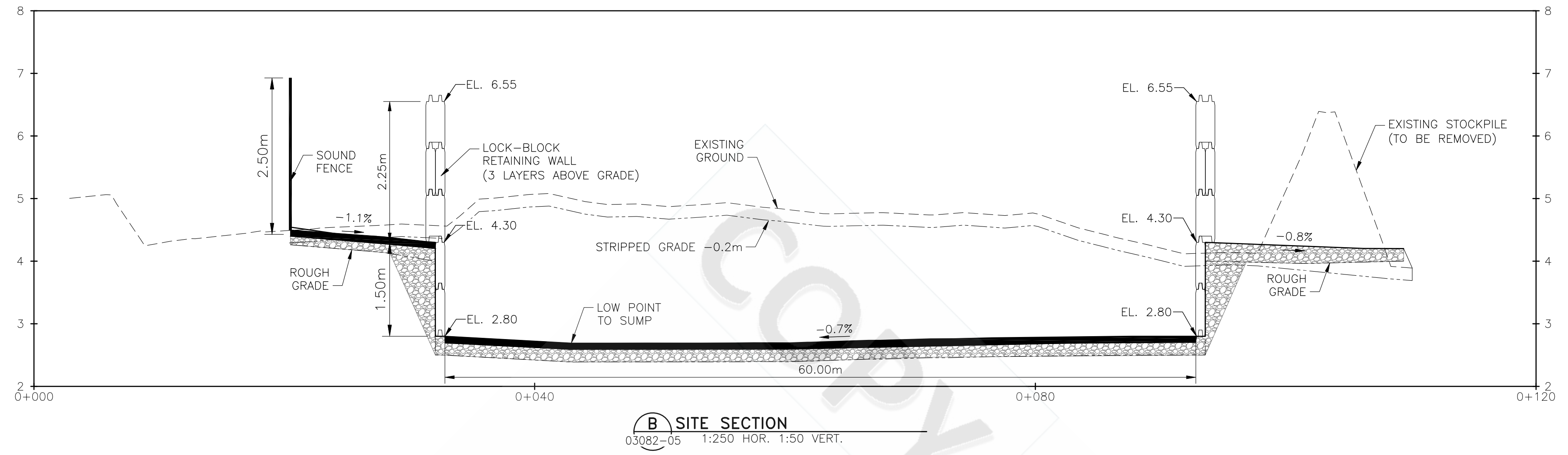
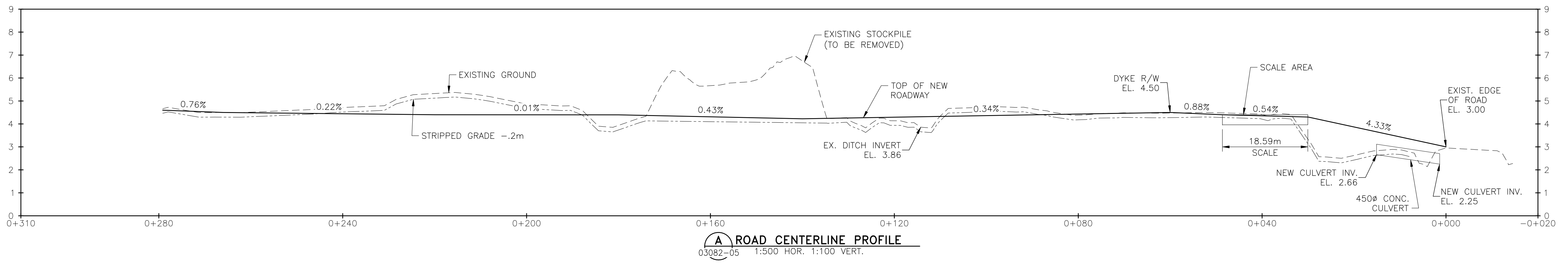
NEW WESTMINSTER, BC
DERWENT WAY TRANSFER STATION
SITE CLEARING, STRIPPING AND GRUBBING PLAN

CADFILE	03082-03	DRAWING NO.	03082-03	REV.	G
SCALE	1:300				

Date and Time Saved: 2019-07-17, 10:19 AM

PLOTTED: 2019-07-17 10:42:49 AM, BY: MICHAEL
 LAST SAVED: 2019-07-17 10:19:28 AM, BY: MICHAEL

- NOTES:**
1. GENERAL NOTES FOR CIVIL CONSTRUCTION SEE DRAWING Q3082-01
 2. ALL COORDINATES, ELEVATIONS, AND DIMENSIONS ARE IN METERS, U.N.O.



REFERENCE DRAWINGS		REVISIONS							NOTES	PERMIT AND ENGINEER STAMP
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		A	ISSUED FOR 50% DESIGN	2017.AUG.15	MOH	CT	DM	CT		
		B	ISSUED FOR 90% DESIGN	2017.NOV.10	MOH	CT	DM	CT		
		C	ISSUED FOR PERMIT	2018.MAY.29	MOH	CT	DM	CT		
		D	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT	DM	CT		
		E	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT	DM	CT		
		F	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT	DM	CT		

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CADFILE	03082-06	DRAWING NO.	03082-06	REV.	F
SCALE	AS NOTED				

TETRA TECH
 VGEO03082-01

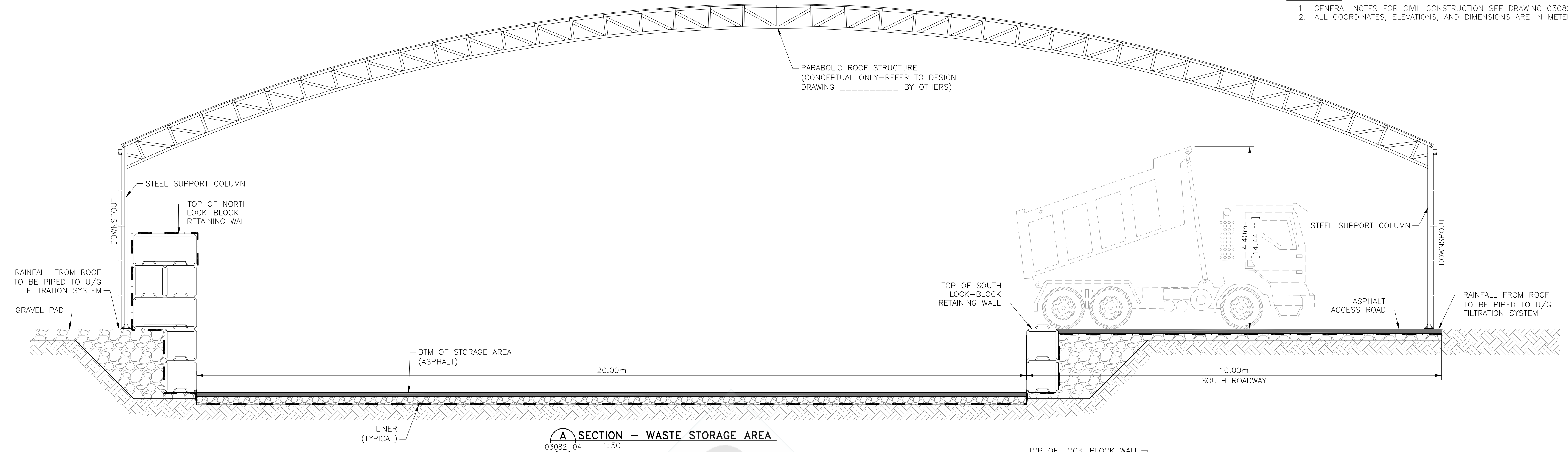
SUMMIT
 EARTHWORKS

LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

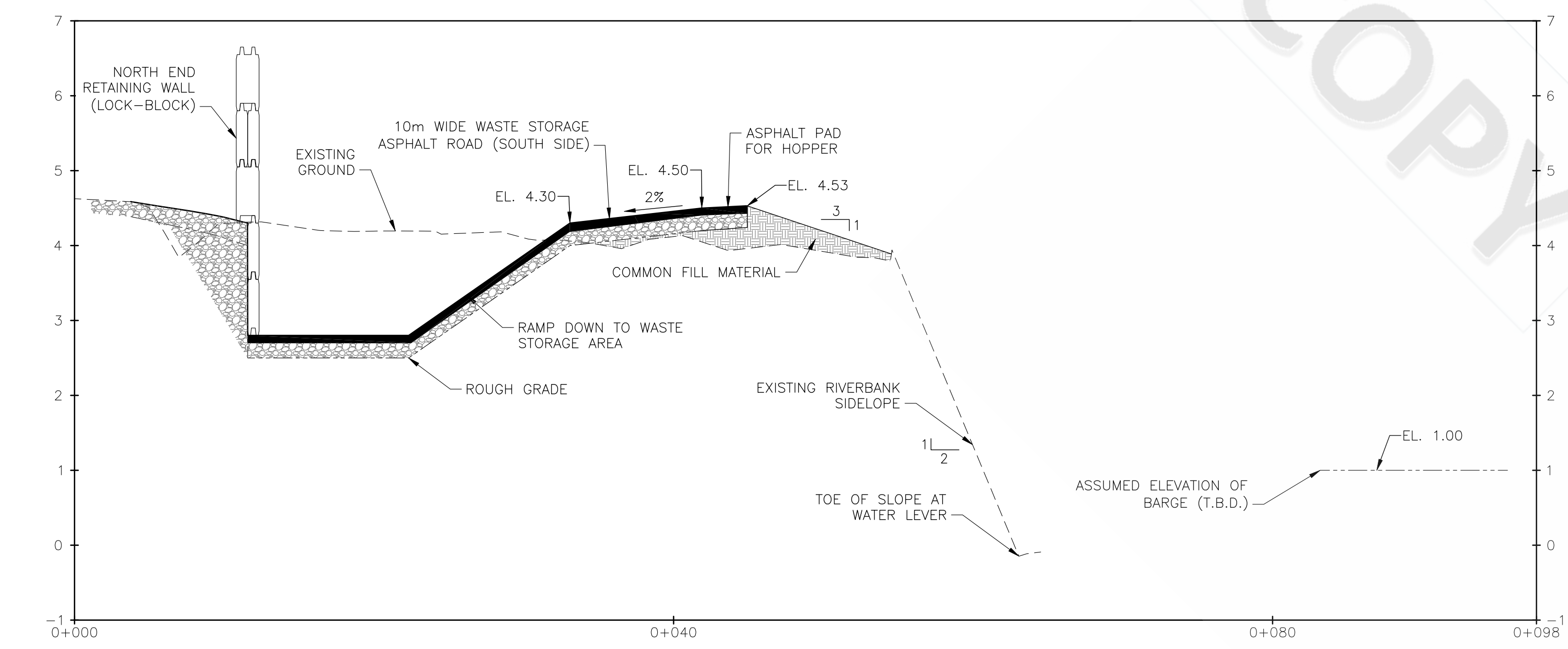
NEW WESTMINSTER, BC
 DERWENT WAY TRANSFER STATION
 SITE PROFILES AND SECTIONS

Date and Time Saved: 2019-07-17, 10:19 AM

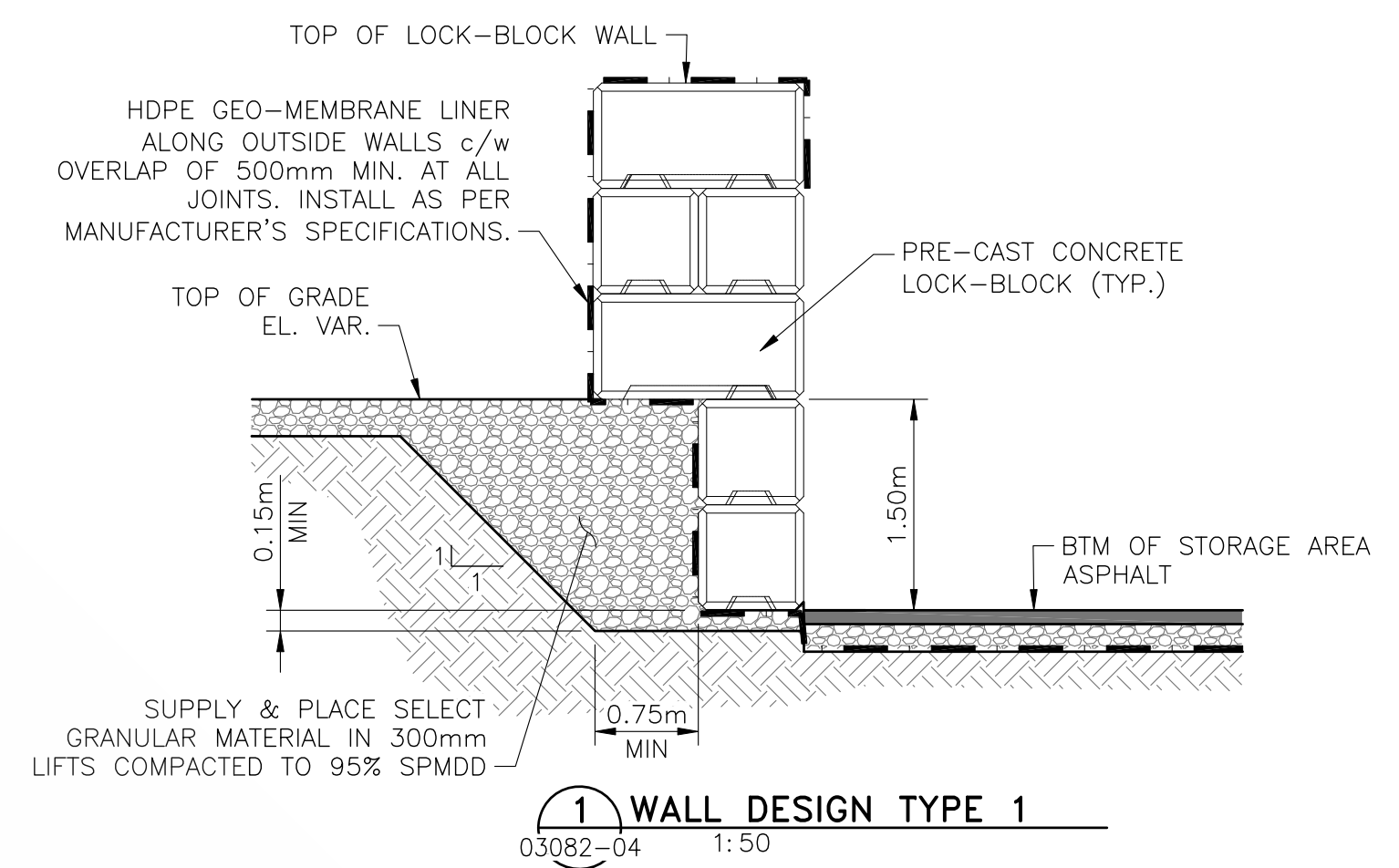
NOTES:
 1. GENERAL NOTES FOR CIVIL CONSTRUCTION SEE DRAWING 03082-01
 2. ALL COORDINATES, ELEVATIONS, AND DIMENSIONS ARE IN METERS, U.N.O.



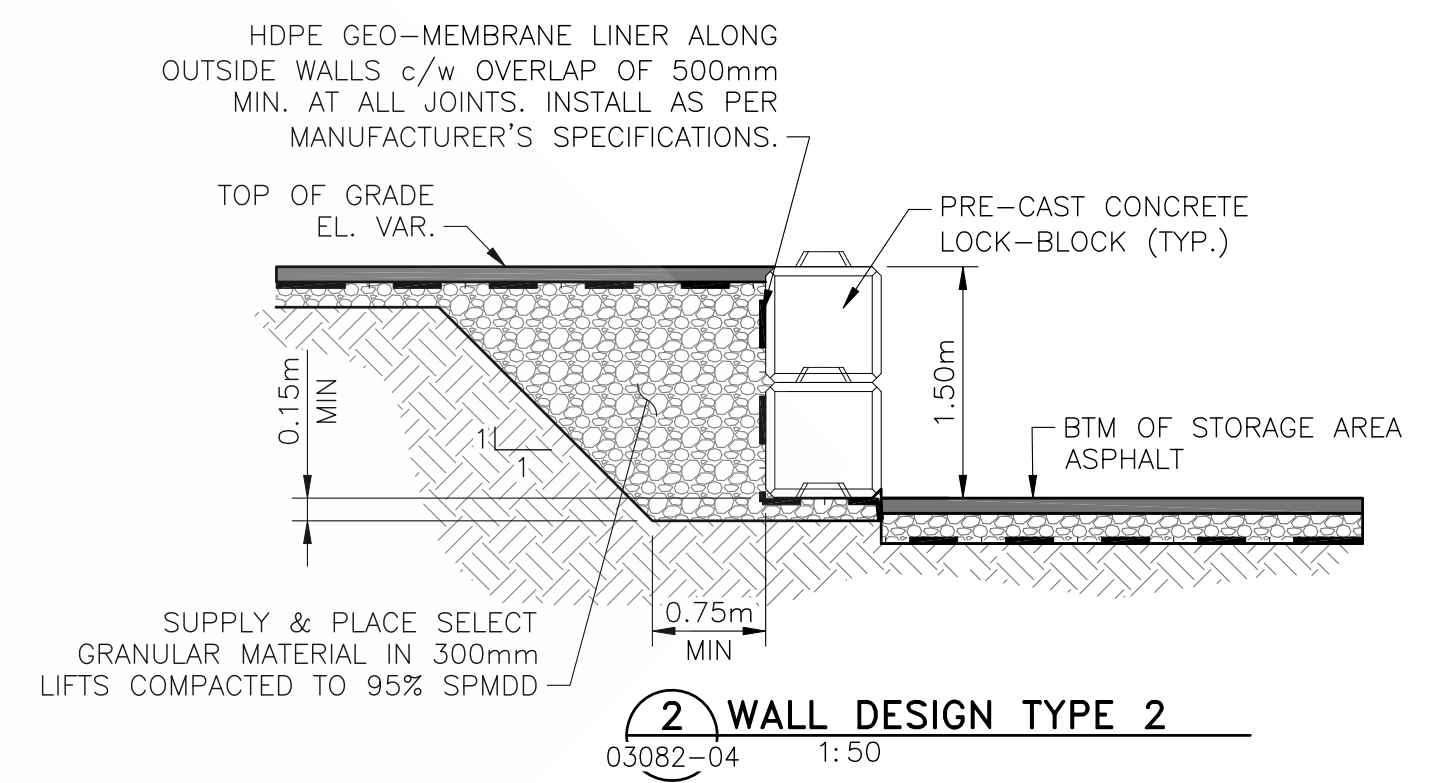
A SECTION - WASTE STORAGE AREA
 03082-04 1:50



B RAMP SECTION
 03082-04 1:250 HOR. 1:50 VERT.



1 WALL DESIGN TYPE 1
 03082-04 1:50



2 WALL DESIGN TYPE 2
 03082-04 1:50

PLOTTED: 2019-07-17 10:42:54 AM. BY: MICHAEL
 LAST SAVED: 2019-07-17 10:19:48 AM BY: MICHAEL

REFERENCE DRAWINGS		REVISIONS							NOTES	PERMIT AND ENGINEER STAMP
NUMBER	TITLE	NO.	ISSUE	DATE	BY	CHK'D	ENG	APP'D		
03082-04	GENERAL ARRANGEMENT - SITE PLAN	A	ISSUED FOR 50% DESIGN	2017.AUG.15	MOH	CT	DM	CT		
		B	ISSUED FOR 90% DESIGN	2017.NOV.10	MOH	CT	DM	CT		
		C	ISSUED FOR PERMIT	2018.MAY.29	MOH	CT	DM	CT		
		D	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT	DM	CT		
		E	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT	DM	CT		
		F	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT	DM	CT		

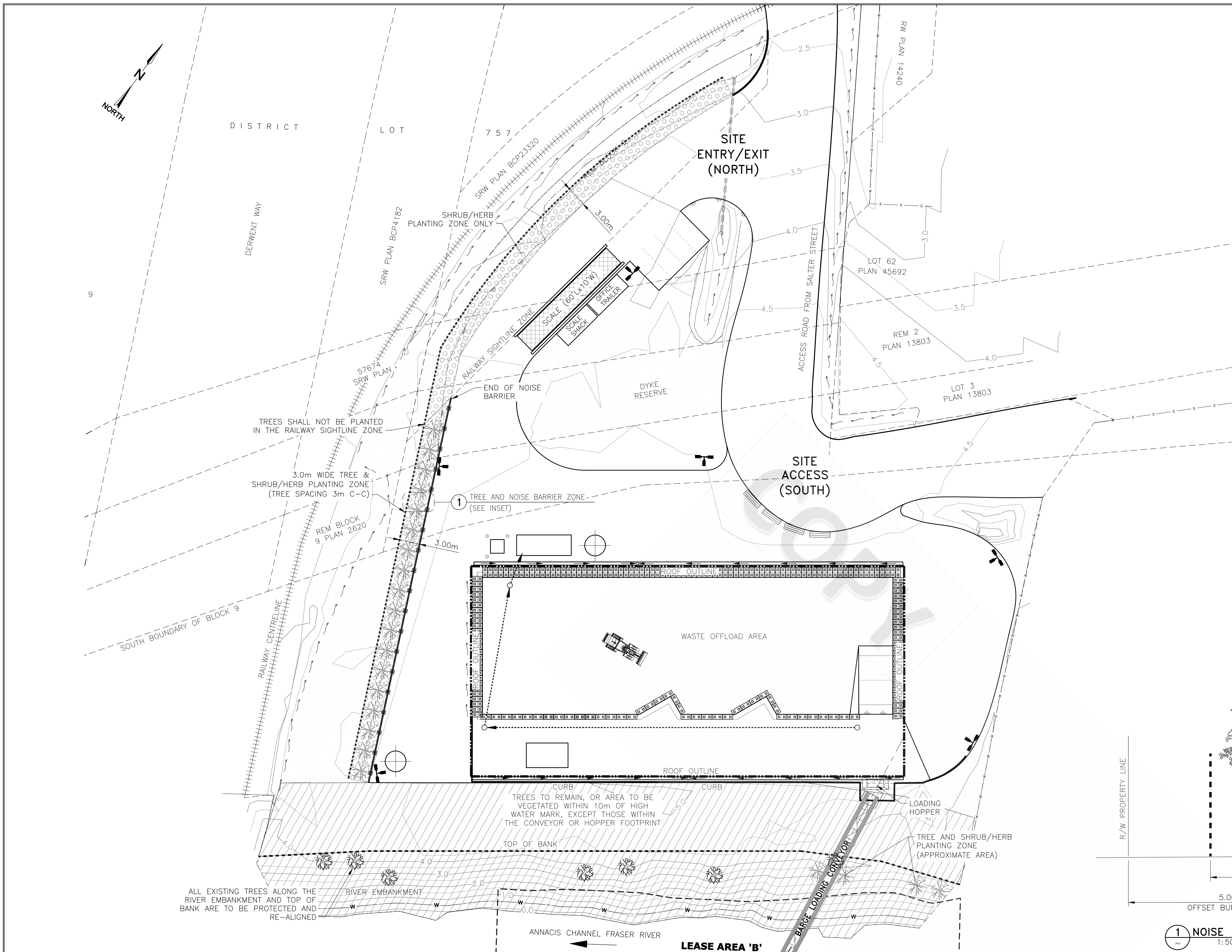


LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

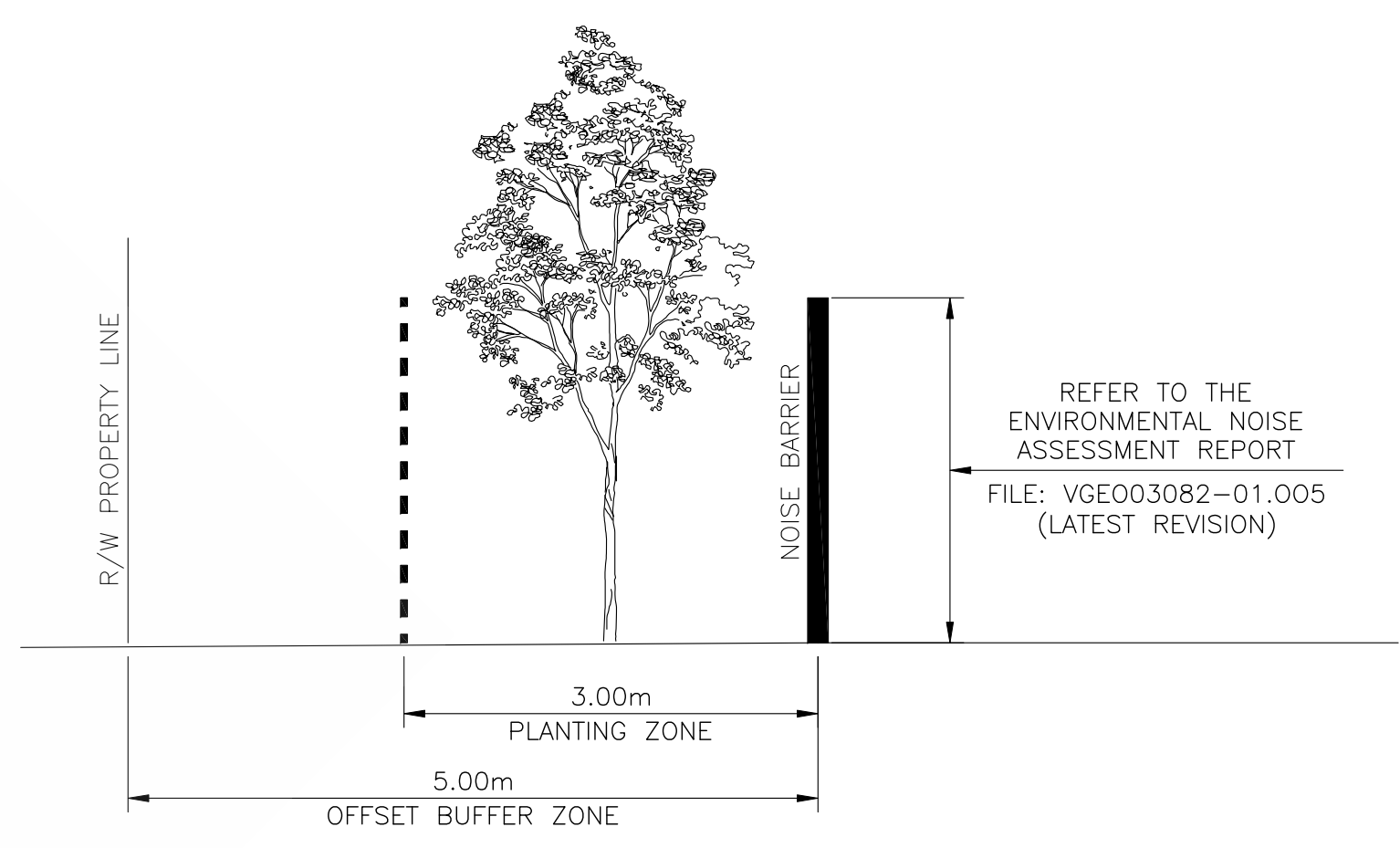
NEW WESTMINSTER, BC
 DERWENT WAY TRANSFER STATION
 RETAINING WALL DETAILS

CADFILE	03082-07	DRAWING NO.	03082-07	REV.	F
SCALE	AS NOTED				

VANCOUVER FRASER PORT AUTHORITY
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- NOTES:**
- GENERAL NOTES FOR CIVIL CONSTRUCTION SEE DRAWING Q3082-01
 - ALL COORDINATES, ELEVATIONS, AND DIMENSIONS ARE IN METERS, U.N.O.
 - TOPOGRAPHY DATA IS DERIVED FROM HIGHMARK SURVEY AND ENGINEERING LTD. NOV. 2015. DRAWING NUMBER: T00006D
- LEGEND:**
- LOCK-BLOCK RETAINING WALLS
 - DRAINAGE DITCH c/w DIRECTION ARROW
 - EXISTING CENTERLINE OF RAIL
 - EXISTING FENCELINE
 - NOISE BARRIER & TREE PLANTING ZONE
 - NEW U/G DRAINAGE CULVERT (CONCRETE)
 - LIGHT POLE
 - VEGETATED AREAS (GRASS/PLANTS)
 - SHRUB/HERB PLANTING AREAS
 - EXISTING TREES TO REMAIN (ALONG RIVER EMBANKMENT AND WITHIN 10m OF HIGHWATER MARK)
 - TREES AND SHRUB/HERB PLANTING AREAS (CONCEPTUAL OUTLINE)
 - DRAINAGE CATCHBASIN c/w BURIED PVC PIPE



1 NOISE BARRIER AND PLANTING ZONE
1:50



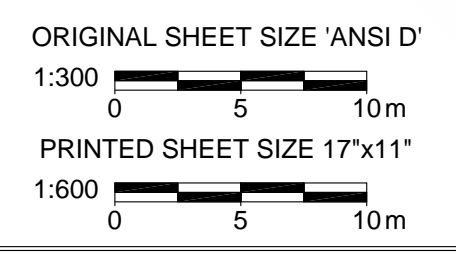
LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

NEW WESTMINSTER, BC
DERWENT WAY TRANSFER STATION
LANDSCAPING PLAN

CADFILE	03082-12	DRAWING NO.	03082-12	REV.	G
SCALE	1:300				

VANCOUVER FRASER PORT AUTHORITY
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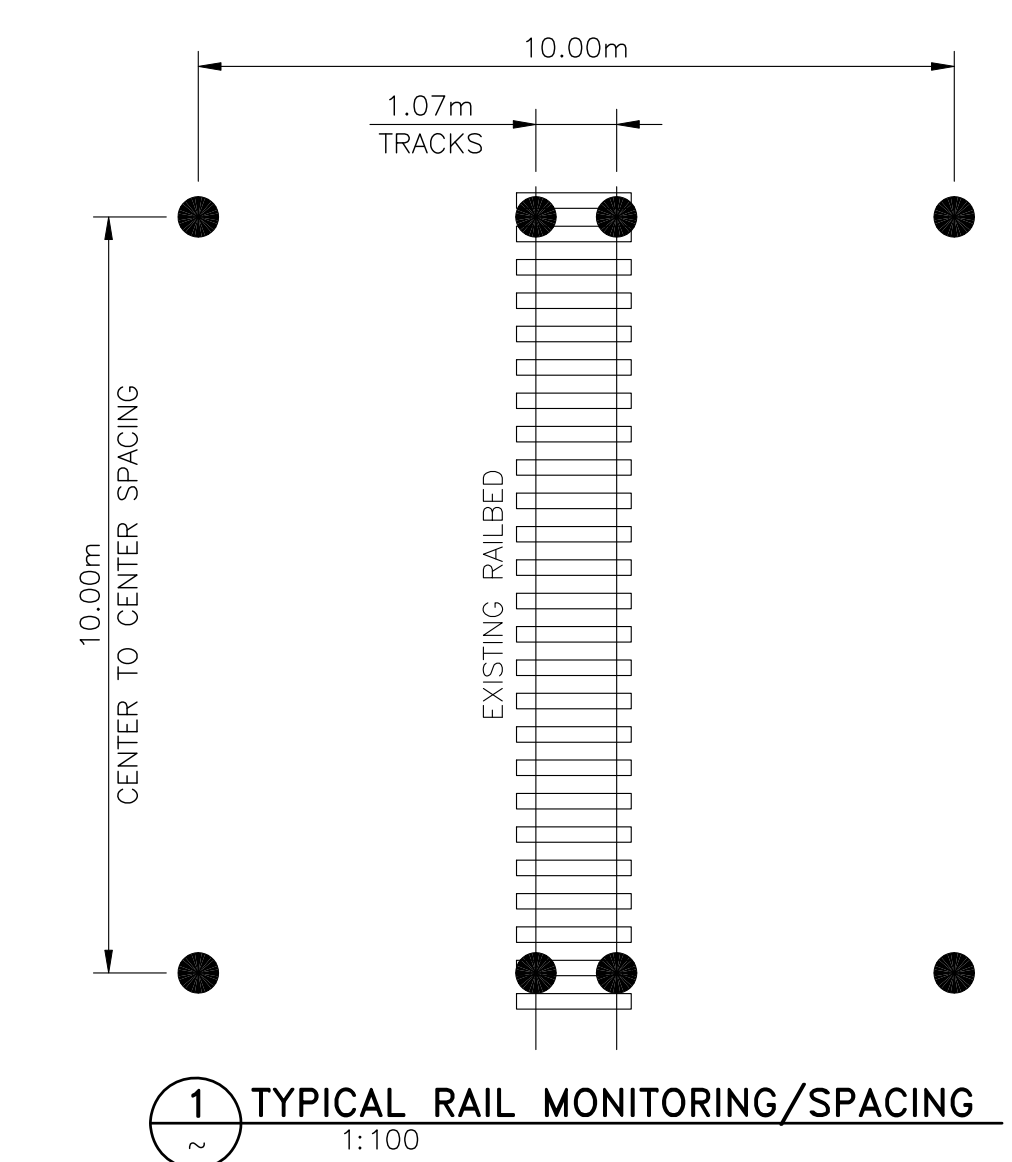
PERMIT AND ENGINEER STAMP



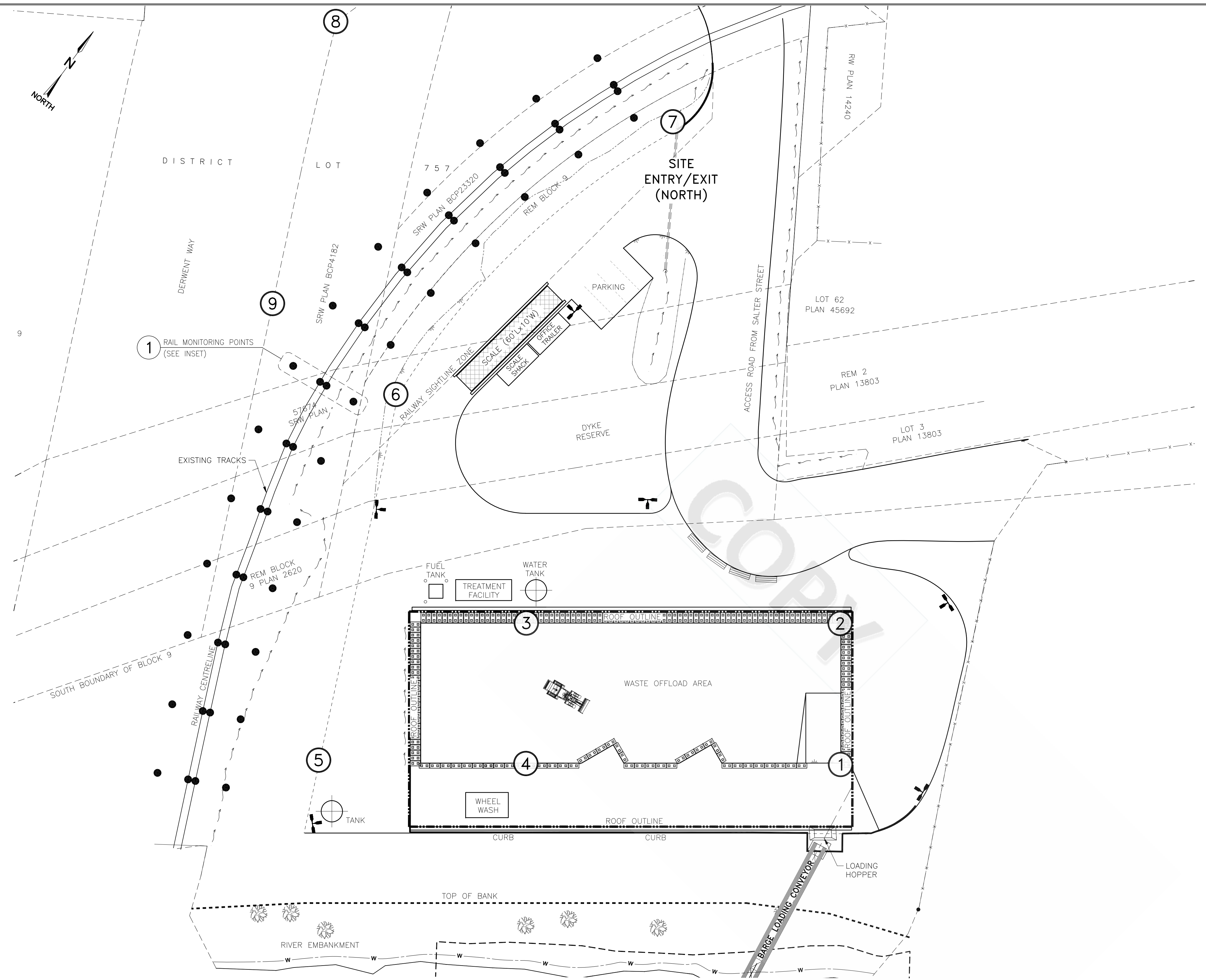
REFERENCE DRAWINGS		REVISIONS							NOTES
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		B	ISSUED FOR 90% DESIGN	2017.NOV.10	MOH	CT	DM	CT	
		C	ISSUED FOR PERMIT	2018.MAY.29	MOH	CT	DM	CT	
		D	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT	DM	CT	
		E	ISSUED FOR PERMIT	2018.OCT.05	MOH	CT	DM	CT	
		F	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT	DM	CT	
		G	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT	DM	CT	

- NOTES:**
- GENERAL NOTES FOR CIVIL CONSTRUCTION SEE DRAWING Q3082-01
 - ALL COORDINATES, ELEVATIONS, AND DIMENSIONS ARE IN METERS, U.N.O.
 - TOPOGRAPHY DATA IS DERIVED FROM HIGHMARK SURVEY AND ENGINEERING LTD. NOV. 2015. DRAWING NUMBER: T00006D

- LEGEND:**
- > DRAINAGE DITCH c/w DIRECTION ARROW
 - x-x- EXISTING FENCELINE
 - ≡≡≡ NEW U/G DRAINAGE CULVERT (CONCRETE)
 - #/● SURVEY / RAIL MONITORING POINT



NOTE: SURVEY POINTS ON BOTH RAIL LINES EMBEDDED INTO THE GROUND AT 5-10m INTERVALS PERPENDICULAR AND PARALLEL TO THE RAIL LINE AS INDICATED.



REFERENCE DRAWINGS		REVISIONS							
NUMBER	TITLE	NO.	ISSUE	DATE	BY	CHK'D	ENG	APP'D	
		A	ISSUED FOR 50% DESIGN	2017.AUG.15	MOH	CT	DM	CT	
		B	ISSUED FOR 90% DESIGN	2017.NOV.10	MOH	CT	DM	CT	
		C	ISSUED FOR PERMIT	2018.MAY.29	MOH	CT	DM	CT	
		D	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT	DM	CT	
		E	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT	DM	CT	
		F	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT	DM	CT	

NOTES

ORIGINAL SHEET SIZE 'ANSI D'
1:300 0 5 10m
PRINTED SHEET SIZE 17"x11"
1:600 0 5 10m

PERMIT AND ENGINEER STAMP

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SUMMIT EARTHWORKS

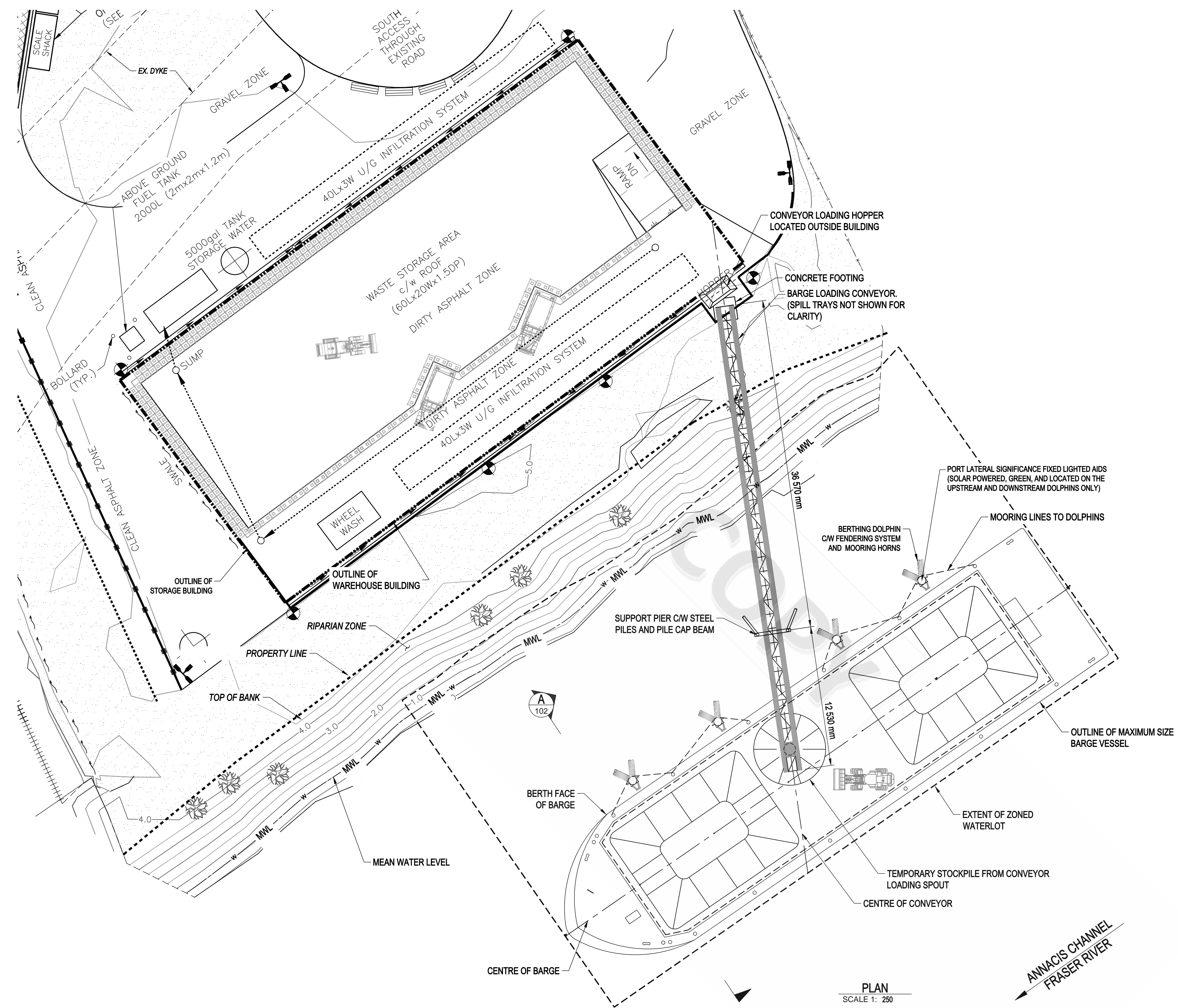
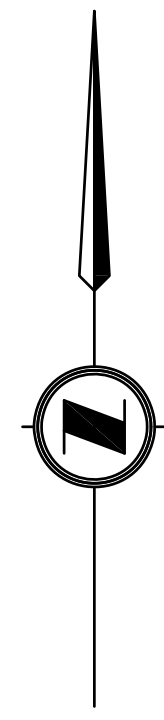
LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

NEW WESTMINSTER, BC
DERWENT WAY TRANSFER STATION
SURVEY MONITORING POINT PLAN

CADFILE	03082-13	DRAWING NO.	03082-13	REV.	F
SCALE	1:300				

Date and Time Saved: 2019-07-17 10:32 AM

PLOTTED: 2019-07-17 10:43:39 AM. BY: MICHAEL
LAST SAVED: 2019-07-17 10:32:52 AM BY: MICHAEL



PLAN
SCALE 1: 250

- GENERAL NOTES:**
- GENERAL
 - DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ELEVATIONS ARE IN METRES AND ARE REFERENCED TO GEODETIC ELEVATION.
 - GEOTECHNICAL DESIGN IS BASED ON INFORMATION PROVIDED BY TETRA TECH LTD.
 - WATER LEVELS

DESIGN RIVER ELEVATIONS AT THE SITE ARE AS FOLLOWS (DFO):

EXTREME HIGH WATER LEVEL (EHWL)	+2.9 m
HIGHER HIGH WATER LEVEL (HHWL)	+1.8 m
LOWER LOW WATER LEVEL (LLWL)	-1.8 m
 - MAXIMUM BARGE SIZE DIMENSIONS

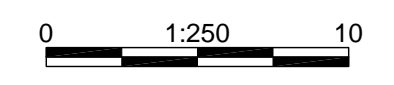
BARGE DWT = 3 100 TONNES
HULL LENGTH = 67.0 m
HULL WIDTH = 17.0 m
HULL LOADED DRAFT = 1.62 m
 - DESIGN CODE
 - CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA S6-14)
 - WORKSAFE BC OCCUPATIONAL HEALTH AND SAFETY STANDARDS
 - BRITISH STANDARD BS639-4
 - UNIFIED FACILITIES CRITERIA (UFC) – DESIGN: PIERS AND WHARVES (UFC 4-152-01)
 - PIANC (WORLD ASSOCIATION FOR WATERBORNE TRANSPORT INFRASTRUCTURE)
 - DESIGN LOADS
 - SELF-WEIGHT OF STRUCTURE COMPONENTS
 - MAINTENANCE ACCESS LOADS AS PER CL 3.8.10 OF CSA S6-14.
 - CONVEYOR MECHANICAL COMPONENTS
 - WIND LOADING TO CAN/CSA S6-14
 - SEISMIC DESIGN FOR THE ONSHORE TERMINAL WORKS ONLY. SEISMIC DESIGN HAS NOT BEEN CONSIDERED FOR THE MARINE STRUCTURES DESIGN (BERTHING DOLPHINS AND CONVEYOR SUPPORT PIER).
 - BERTHING LOADS
 - LARGEST VESSEL FULLY LADEN DISPLACEMENT = 3100 TONNES AT MAXIMUM BERTHING SPEED OF 0.33 m/s
 - MOORING LOADS
 - MOORING LOADS FROM WIND ARE BASED ON NOTE 5.4
 - MOORING LOADS FROM RIVER CURRENT ARE BASED ON MAXIMUM ANNUAL FRASER RIVER CURRENTS NOT INCLUDING ANNUAL FRESHET EVENTS.
 - MATERIALS
 - STEEL PIPE PILES TO BE ASTM A252 GRADE 3
 - ALL STEEL TO BE CSA G40.21M GRADE 350W
 - CAST-IN PLACE CONCRETE TO BE CSA A23.1 EXPOSURE CLASS C1, f_c = 35 MPa AT 28 DAYS.
 - REINFORCING STEEL TO BE CSA G30.18M GRADE 400R

REFERENCE DRAWINGS		REVISIONS						
NUMBER	TITLE	NO.	ISSUE	DATE	BY	CHK'D	ENG	APP'D
		A	ISSUED FOR PERMIT	2018.MAY.29	MOH	CT		CT
		B	ISSUED FOR PERMIT	2018.JUN.15	MOH	CT		CT
		C	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT		CT
		D	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT		CT

NOTES

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McElhanney
McElhanney Consulting Services Ltd.

TETRA TECH
VGE03082-01

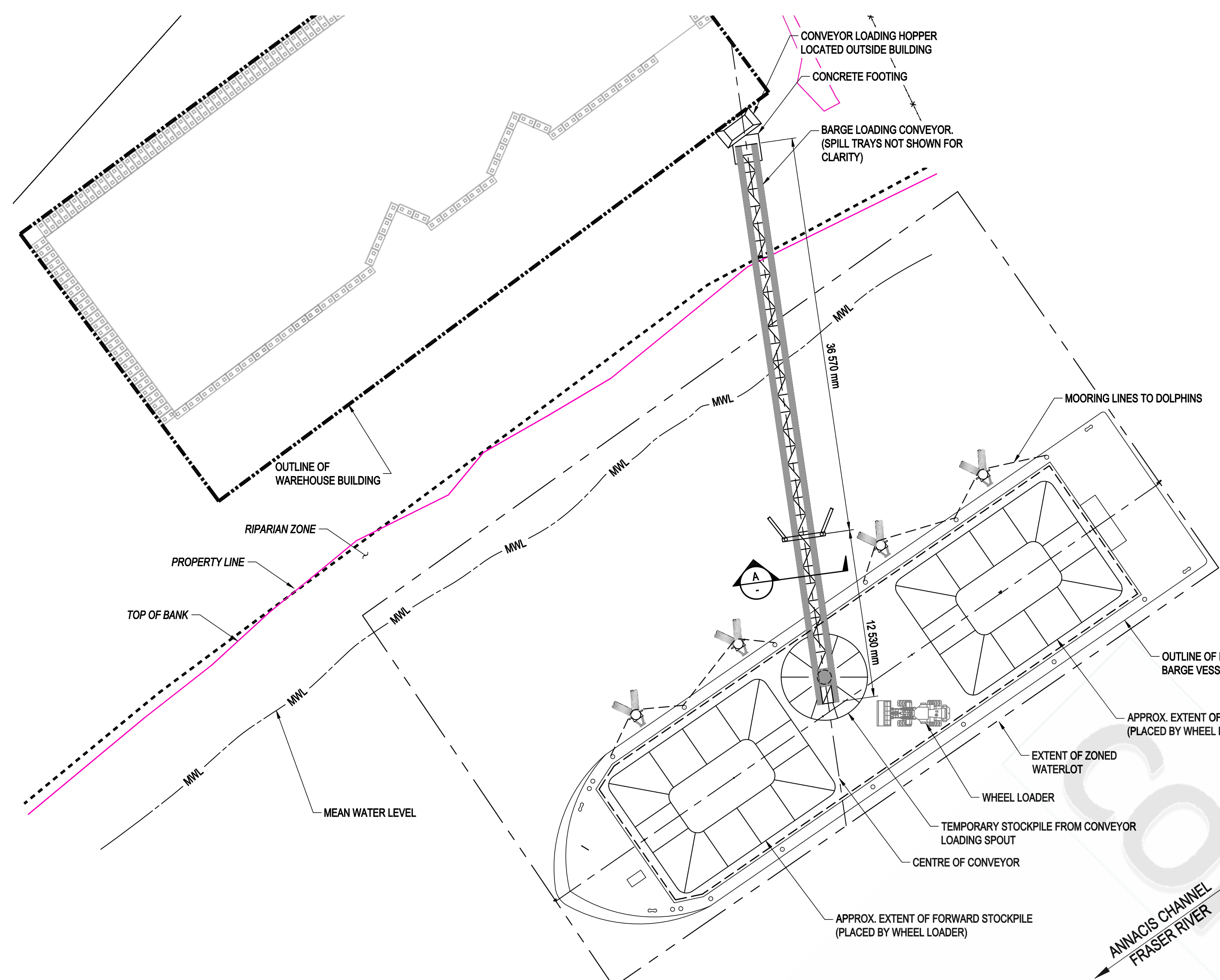
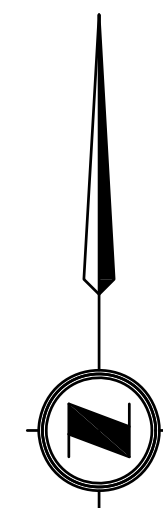
SUMMIT
EARTHWORKS

LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602

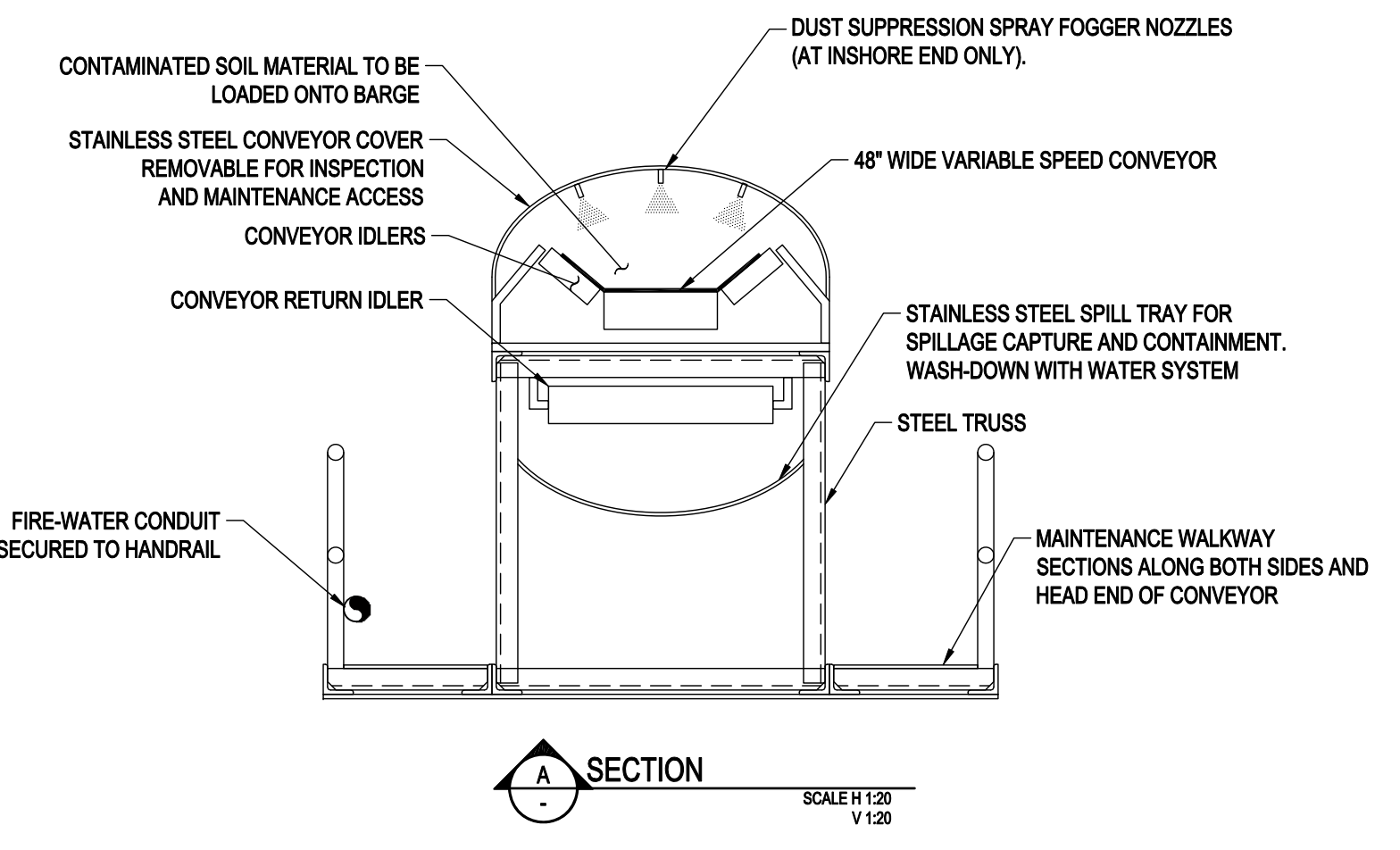
NEW WESTMINSTER, BC
DERWENT WAY TRANSFER STATION
BARGE LOADING MARINE FACILITY – GENERAL ARRANGEMENT

CADFILE	03082-100	DRAWING NO.	03082-100	REV.	D
SCALE	1:250				

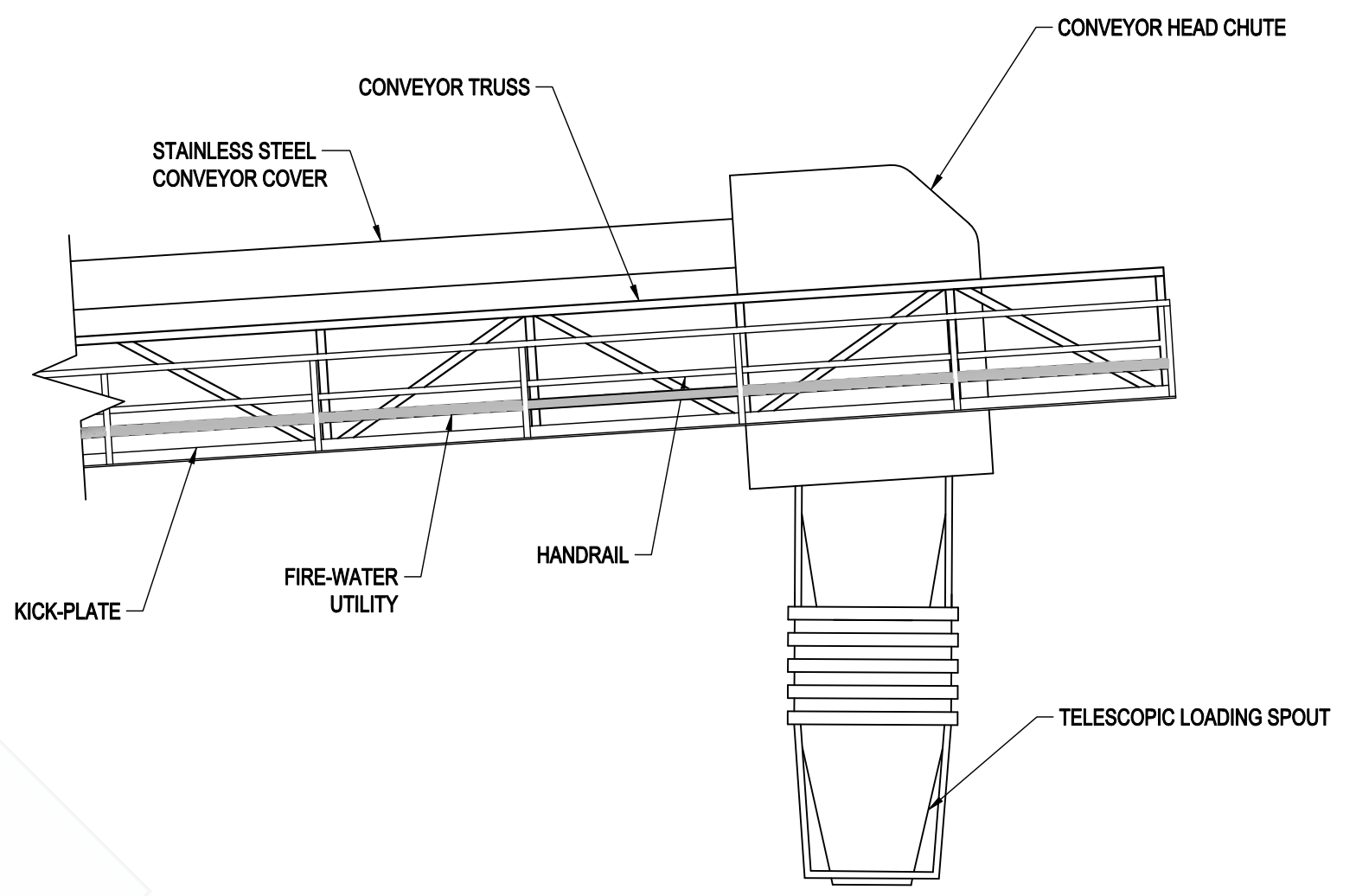
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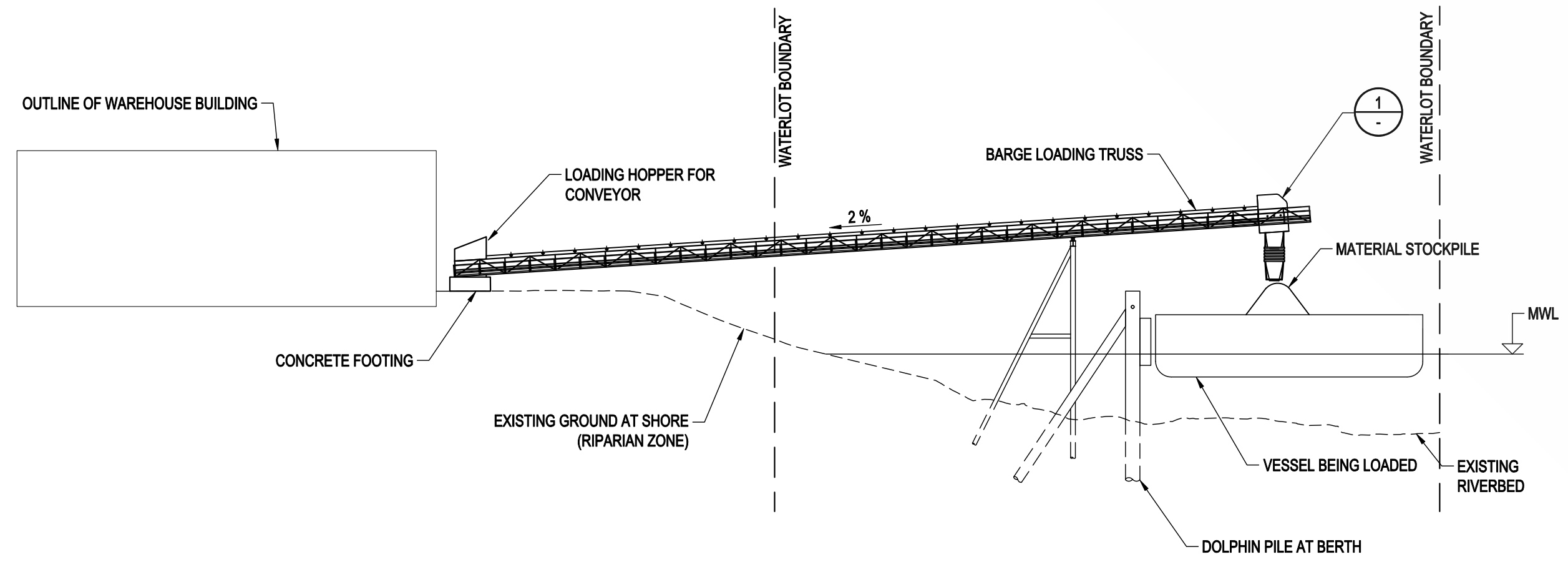
PLAN VIEW - LOADED BARGE AT MWL
SCALE 1: 300



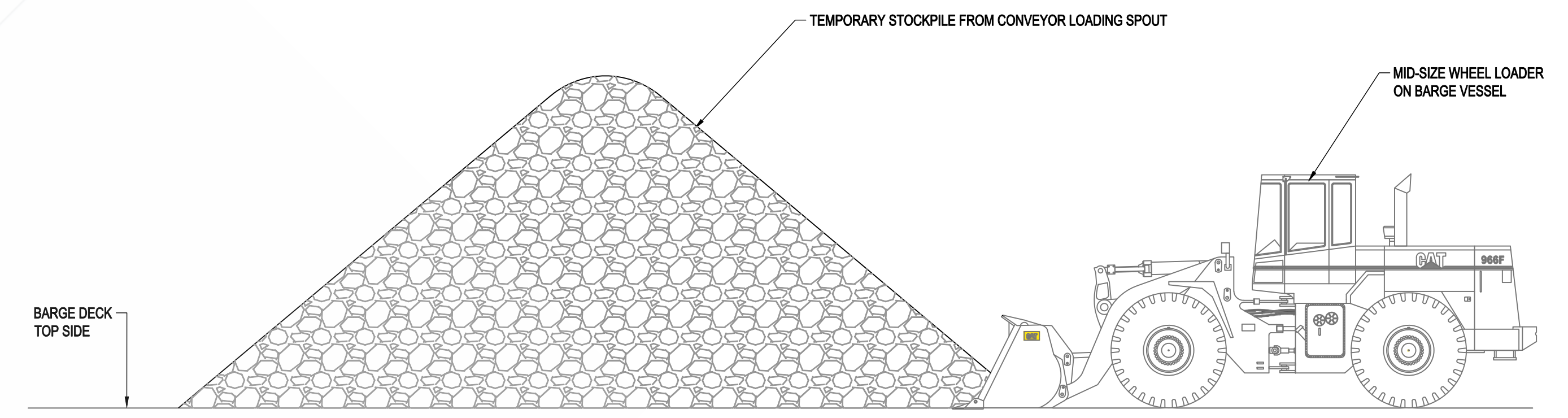
SECTION A-A
SCALE H 1:20
V 1:20



DETAIL 1
SCALE H 1:50



PROFILE AT CENTRE OF CONVEYOR - LOADED BARGE AT MWL
SCALE 1: 300



McElhanney
McElhanney Consulting Services Ltd.

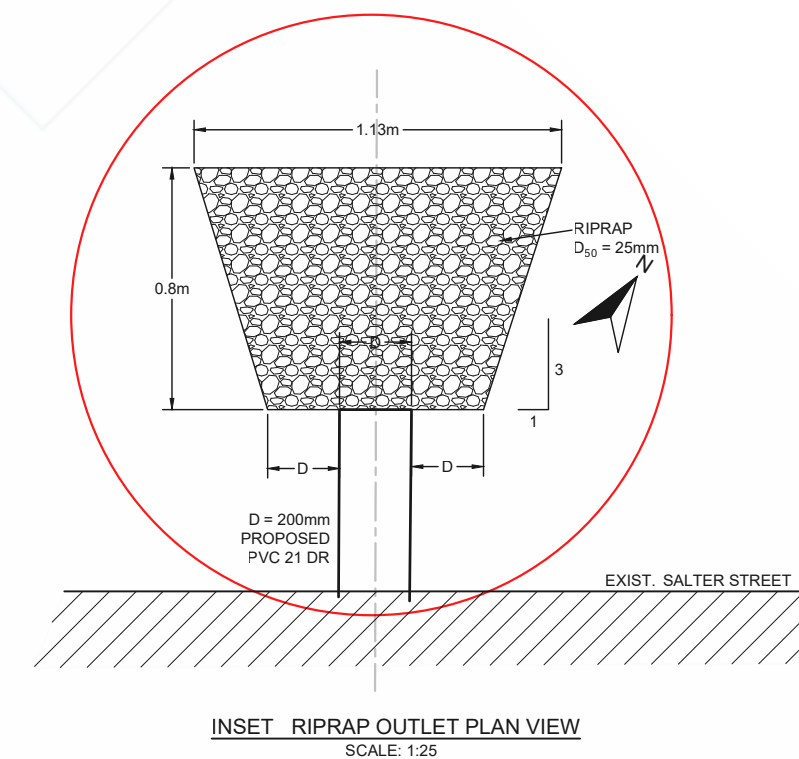
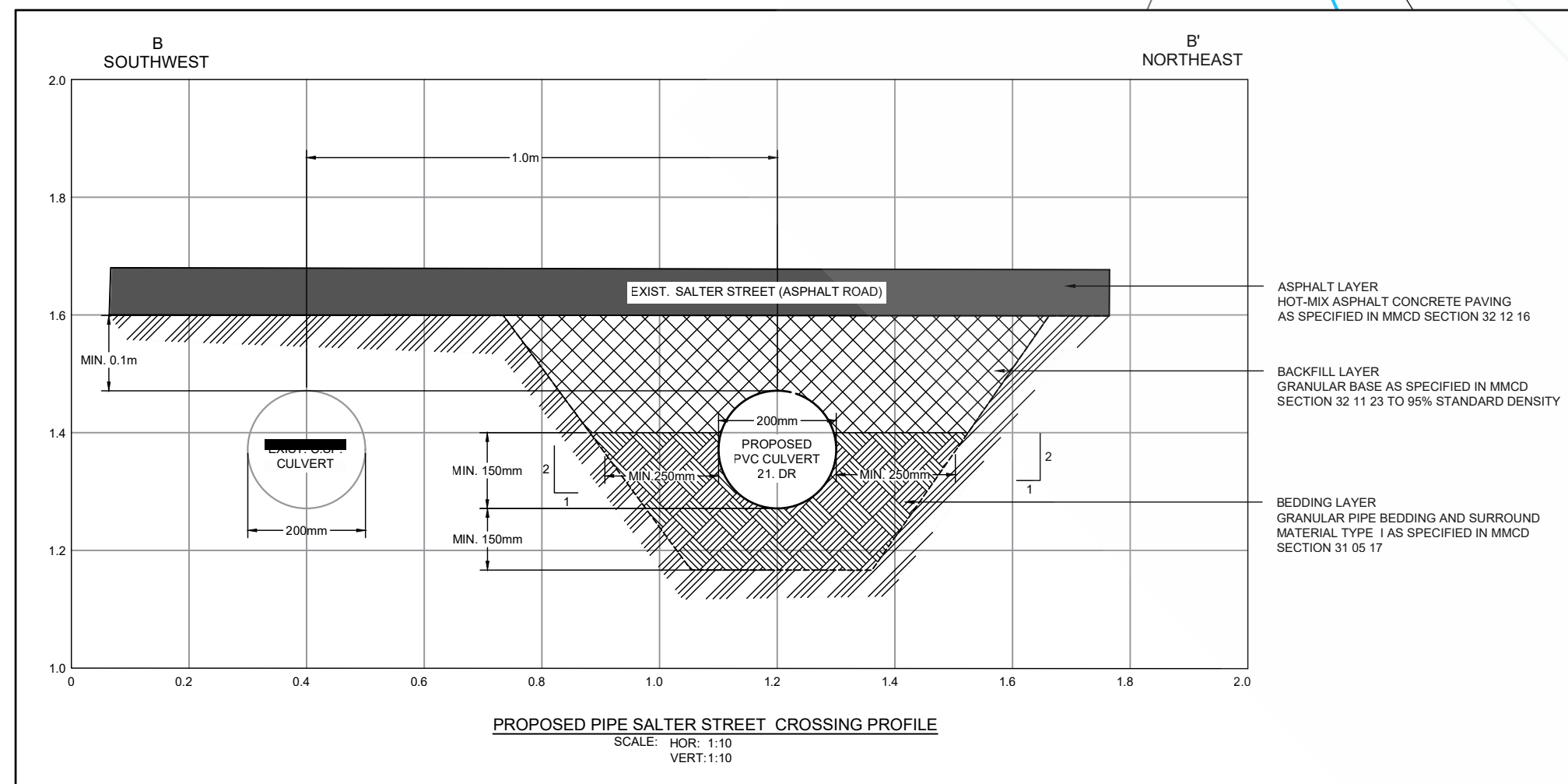
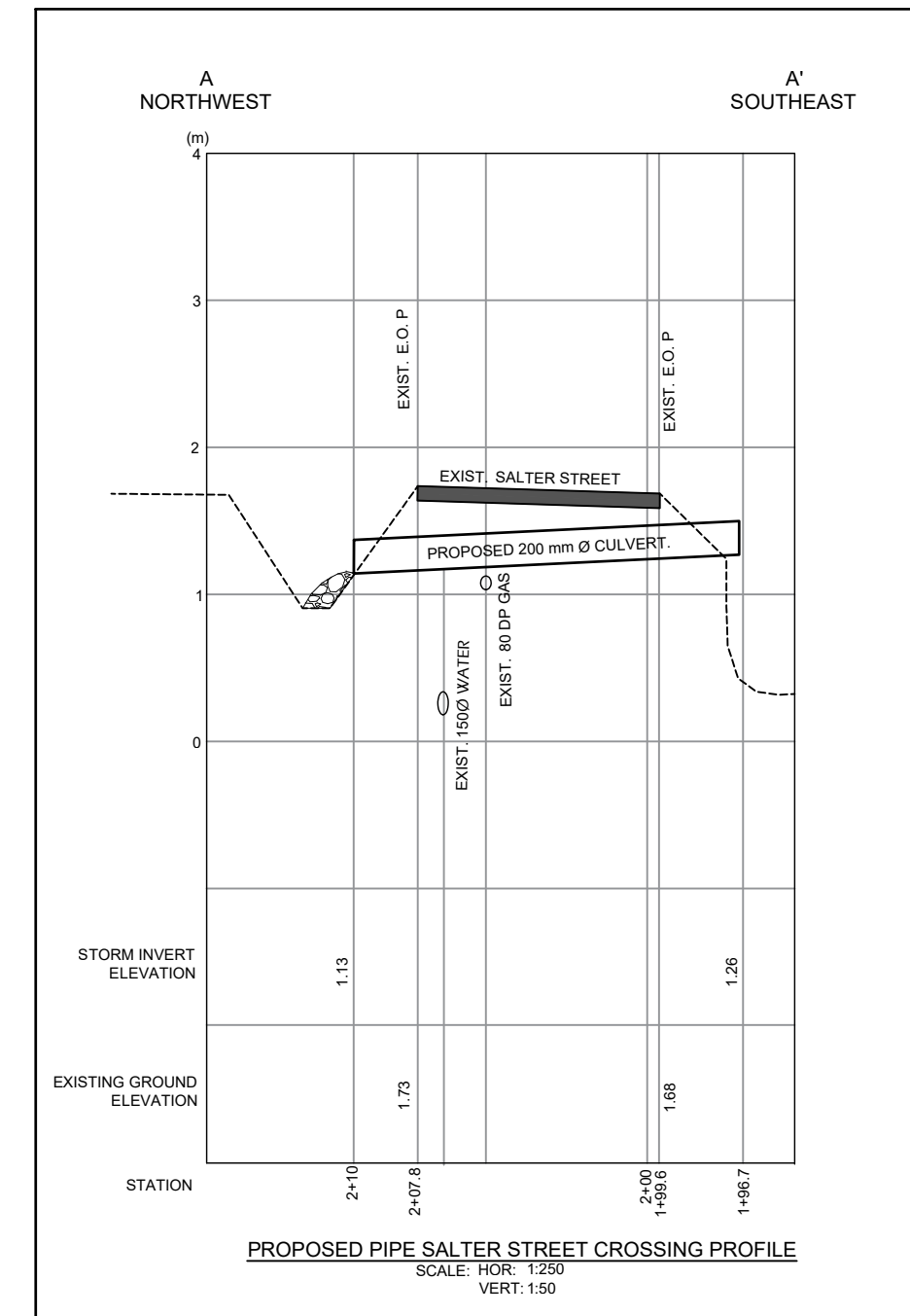
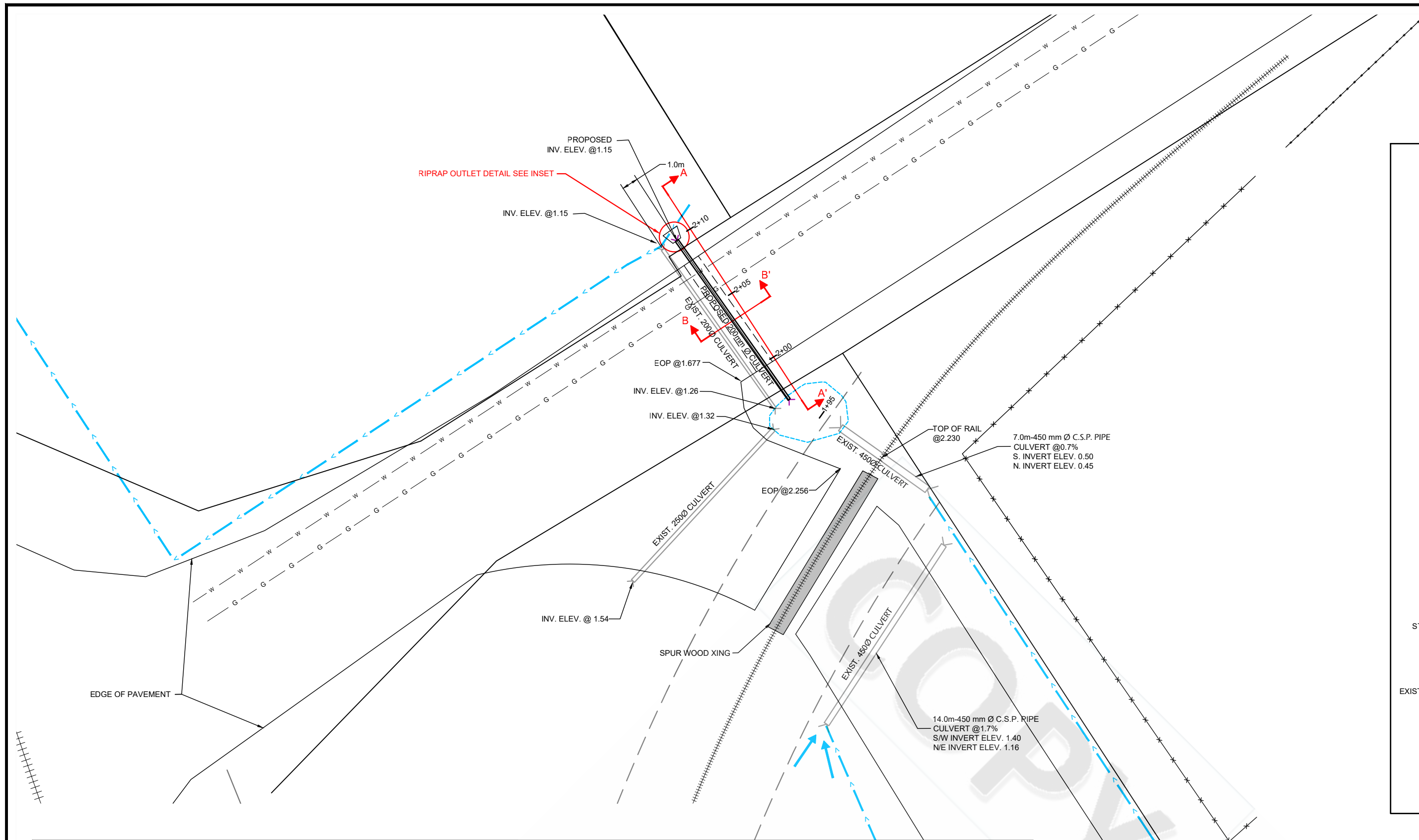
TETRA TECH
VGE03082-01

PLOTTED: 2019-07-17 10:43:43 AM, BY: MICHAEL
LAST SAVED: 2019-07-17 10:33:38 AM, BY: MICHAEL

REFERENCE DRAWINGS		REVISIONS							NOTES	PERMIT AND ENGINEER STAMP
NUMBER	TITLE	NO.	ISSUE	DATE	BY	CHK'D	ENG	APP'D		
		A	ISSUED FOR PERMIT	2019.JAN.09	MOH	CT		CT		
		B	ISSUED FOR PERMIT	2019.JUL.18	MOH	CT		CT		

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LOT 3, PLAN 13803 & BLOCK 9, PLAN 2602			
NEW WESTMINSTER, BC BARGE LOADING MARINE FACILITY OPERATIONAL LOADING - GENERAL ARRANGEMENT			
CADFILE	03082-101	DRAWING NO.	
SCALE	AS NOTED	03082-101	REV. B



VANCOUVER FRASER PORT AUTHORITY
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LEGEND	
	DRAINAGE SWALE
	SURFACE WATER FLOW DIRECTION
	EXISTING CULVERT
	PROPOSED CULVERT
	RAIL LINE
	SAWCUT LINE
	POND
	FENCE LINE
	WATER LINE
	GAS LINE
	RIGHT OF WAY
	ASPHALT
	BACK FILL (MIN. 100mm & 95% STANDARD PROCTOR COMPACTION)
	EMBEDMENT (MIN. 150mm)
	BEDDING (MIN 150mm)
	RIPRAP OUTLET
	CROSSING PROFILE LOCATION (SEE THIS DRAWING)

No.	DATE	DESCRIPTION	BY	APPROVED
00	3/12/18	Issued for Client Review	HL	TW

NOTES:
 1. THIS DRAWING IS FOR GENERAL INFORMATION ONLY. LOT BOUNDARIES AND FEATURES ARE APPROXIMATE.
 2. MMCD: MASTER MUNICIPAL CONST. DOC.

Keystone Environmental
 Keystone Environmental Ltd.
 Ste. 320 4400 Dominion Street
 Burnaby, British Columbia

Derwent Way
 New Westminster, B.C.

DESIGN: JL	APPROVED: TW
DRAWN: HL	CHECKED: JL
SCALE: 1:250 (approx.)	

CLIENT: Summit Earthworks Inc.	DATE: 3/09/18
PROJECT No. 12943-109	SHEET No. 1 of 1
REVISION No. 00	DRAWING No. 18-12943-01