Former ALCO Site

Brownfield Cleanup Project

Event Center Work Plan

City of Schenectady

New York State
Brownfield Cleanup Program
Site Nos. C447042, C447043, and C447044

Prepared For

West Yard Properties, LLC

220 Harborside Dr., Suite 300
Schenectady, New York 12305

February 2024

Barton&Loguidice

Former ALCO Site
Brownfield Cleanup Project

City of Schenectady
Schenectady County, New York

Event Center Work Plan

New York State
Brownfield Cleanup Program
Site Nos. C447042, C447043, and C447044

February 2024

Prepared For:

West Yard Properties, LLC
220 Harborside Dr., Suite 300
Schenectady, New York 12305

Prepared By:

Barton & Loguidice, Inc.
10 Airline Drive, Suite 200
Albany, New York 12205

Table of Contents

Section Page

1.0 INTRODUCTION 1
2.0 IMPLEMENTATION OF EXCAVATION WORK PLAN 2
2.1 Notification 2
2.1.1 Excavations 2
2.2 Soil Screening Methods 3
2.3 Stockpile Methods 3
2.4 Materials Excavation and Load Out 4
2.5 Materials Transport Off-Site 4
2.6 Materials Disposal or Reuse Off-Site 5
2.7 Materials Re-Use On-Site 5
2.8 Fluids Management 5
2.9 Cover System Restoration 5
2.10 Backfill from Off-Site Sources 6
2.11 Stormwater Pollution Prevention 6
2.12 Contingency Plan 6
2.12.1 Underground Storage Tanks (USTs) 6
2.12.2 Free Product/Sheen Observations 8
2.13 Community Air Monitoring Plan 8
2.14 Odor Control Plan 8
2.15 Dust Control Plan 8
2.16 Green and Sustainable Site Remediation (GSR) 8
2.17 Pressure Monitoring/Vapor Barrier System 9
2.18 Project-specific Report 9

Tables

Table 1 – Soil Excavation Areas

Attachments

Attachment 1 – Site Plan
Attachment 2 – Erosion and Sediment Control
Attachment 2A – Stockpile Detail
Attachment 2B – Truck Wash Detail
Attachment 3 – Proposed Final Cover System Areas
Attachment 4 – Proposed Pressure Monitoring Point Locations
Attachment 5 – Pressure Monitoring Point and Vapor Barrier Detail
Attachment 6 – Event Center Construction Drawings (Separately Provided)

1.0 INTRODUCTION

This project-specific Event Center Work Plan has been prepared to aid in the development and construction of the Mohawk Harbor Event Center, located at 301 Nott Street in Schenectady, New York. The Site is identified as the ALCO Site (Property or Site) and historically known as the Nott Street Industrial Park. The Site was formerly remediated through the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP), and is referenced as Site Nos. C447042, C447043, and C447044 (Attachment 1). In 2010, after purchasing the property, the Volunteer (Maxon-ALCO Holdings) divided the Property into three parcels: Parcel A, Parcel B and Parcel C (Site Nos. C447042, C447043, and C447044, see Attachment1) and each Parcel was deemed eligible for the BCP and subject to separate Brownfield Cleanup Agreements (BCA).

The proposed location of the Event Center Development will be situated predominantly on Parcel A with a smaller portion extending onto Parcel B (Attachment 1). The development area currently consists of a grass area improved by a bike trail, gravel parking lot, and a gravel access road to the Rensselaer Polytechnic Institute Reactor Facility. West Yard Properties, LLC intends to improve this area into an approximately 97,000 square-foot ice hockey arena and event center between the Mohawk River and Mohawk Harbor. The Event Center is expected to be a future ice hockey arena with an anticipated seating capacity of 2,200 persons and expanded capacity of 3,595 for other events.

The NYSDEC approved Site Excavation Work Plan, Revised September 2015 (Exc-WP) was included in the approved 2016 Site Management Plan (SMP), and was preceded by Remedial Investigation (RI) and Supplemental Remedial Investigation (SRI) Reports, which characterized impacts at the site resulting from historical industrial usage, and a Remedial Work Plan (RWP) and Alternatives Analysis Report (AAR), which evaluated and recommended remedial alternatives for the site. These reports have been reviewed and approved by NYSDEC in accordance with the BCA and the applicable portions of 6 NYCRR Part 375.

The approved Exc-WP was prepared to provide the procedures that will be followed when remedial and/or development activities require excavation into the existing site soils prior to placement of cover soils (Table 1), or that in the future will penetrate the cover soil system. The NYSDEC approved Exc-WP is applicable to ALCO site Parcel A and Parcel B (Site Nos. C447042 and C447043, see Attachment 1). This project-specific Event Center Work Plan was developed using the NYSDEC-approved BCP Site documents, including the approved SMP and Exc-WP for the site. The following sections discuss the procedures and practices to be followed for the Event Center project and supplement the approved Exc-WP for the site.

2.0 IMPLEMENTATION OF EXCAVATION WORK PLAN

This project specific Event Center Work Plan is provided to the department in addition to the NYSDEC approved Exc-WP, and describes, in detail, how any supplemental procedures and practices to the approved Exc-WP will be implemented during construction of the Event Center. This work plan also addresses green and sustainable remediation best management practices (BMPs), and includes provisions for project specific sub-slab soil vapor pressure monitoring system to be installed to allow for periodic monitoring of the Event Center following construction completion.

2.1 Notification

As a change from the Exc-WP and specific for this Event Center Work Plan, at least 2 business days prior to the start of any intrusive work that will entail penetrating into the existing site soils (below the cover system, or prior to placement of cover soils), or that in the future will penetrate the cover soil system and expose underlying residual contamination, the site owner, or their representative, will notify NYSDEC. Currently, this notification will be made to:

Matthew Dunham, P.E.
Regional Hazardous Waste Remediation Engineer
1130 North Westcott Road
Schenectady, New York 12306-2014

Notification will be made by the Qualified Environmental Professional (QEP) or person under direct supervision of the QEP, provided by Barton & Loguidice, whose role is to administer this site-specific Event Center Work Plan.

During active phase excavations, soil excavation notifications will be performed in accordance with the NYSDEC-approved SMP and Exc-WP. A variety of excavations will occur both above and below the demarcation layer as described below.

2.1.1 Excavations

A variety of excavations will occur for the proposed project, some entirely above the demarcation layer, and some extending to and below the demarcation layer. A summary of anticipated excavation areas and associated fill materials are provided in Table 1.

In general, subsurface excavation anticipated to extend below the demarcation layer will include, but not be limited to utilities, manhole structures, grease traps, catch basins, bike racks, lighting poles, bollards, fence/gate posts, soil piles and pile caps. Excavations performed above the existing demarcation layer will include, but not be limited to new landscaping, retaining walls, parking lots, roadways, sidewalks, bike paths, electrical pads, underground conduits, etc.

Soil cover materials removed from excavations above the demarcation layer will be segregated and staged while awaiting for soil characterization testing to determine options to allow for reuse onsite, or for proper off-site disposal. Reuse of cover soil

materials will require characterization testing by B&L QEP for the following suite of analysis: per- and poly- fluoroalkyl substances (PFAS), 1,4-dioxane, volatile organic compounds (VOCs), semi-volatile organic compounds (VOCs), poly-chlorinated biphenyls (PCBs), metals, pesticides, and herbicides. Soil characterization testing must meet Restricted Residential SCOs (RRSCOs) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs), to be acceptable for onsite reuse.

Excavations of materials from below the demarcation layer will be field screened by a B&L QEP and segregated into soil stockpiles, separate from the excavated cover materials (above the demarcation layer) described above. Non-impacted soils, based on field screening results, excavated from beneath the demarcation layer may be managed separately from impacted soils excavated from beneath the demarcation layer to allow for potential onsite reuse options for non-impacted material following soil characterization testing, or the site may elect to manage all excavated materials below the demarcation layer as impacted soils to be characterized for off-site disposal.

Onsite reuse of non-impacted excavated materials from below the demarcation layer will require characterization testing by B&L QEP for the following suite of analysis: PFAS, 1,4-dioxane, VOCs, SVOCs, PCBs, metals, pesticides, and herbicides. Soil characterization testing must meet Restricted Residential and PGW SCOs, to be acceptable for onsite reuse.

Soil screening and stockpile management are further described below.

2.2 Soil Screening Methods

Visual, olfactory and instrument-based soil screening will be performed in accordance with the approved Exc-WP. A B&L QEP, or someone under direct supervision of the B&L QEP, will perform visual and photoionization detector (PID) screening of excavated soils. Soils will be segregated into appropriate stockpiles based on PID measurements, visual observations, and excavation locations (i.e., above or below the demarcation layer). For the purposes of this project, a PID screening threshold of 15 ppm or less will be assumed to be non-impacted, and above 15 ppm will be assumed to be impacted materials. Visual and olfactory observations of soil impacts will override the above screening threshold.

Testing methodologies are further described below in Section 2.6 of this document.

2.3 Stockpile Methods

Soil stockpiles will be managed by the contractor as previously specified and in accordance with the approved Exc-WP Section 2.3. Separate stockpile staging areas shall be prepared for excavated fill materials and imported off-site fill materials as shown in Attachment 2. Additional stockpile areas may be used by the contractor during construction, as necessary.

Material removed from above the demarcation layer is expected to include soils excavated to facilitate construction of sidewalks, bike paths, parking lots, and access roads, etc. A table

describing anticipated Site excavations and estimated quantities of excavated materials is provided as Table 1. Material removed from above the demarcation layer is expected to be managed in a separate stockpile for potential reuse on site following characterization testing meeting applicable SCOs as described above. Materials removed above the demarcation layer will be placed on 10-mil poly sheeting and covered at the end of the day with anchored 10-mil poly sheeting or tarps (Attachment 2A). Soil material excavated from above the demarcation layer will remain segregated from soil excavated below the demarcation layer. In the event that pre-characterization sampling results indicated that this material meets applicable SCOs (POG and Unrestricted Use SCOs), then stockpiling on poly sheeting and covering with the same will not be required following approval by NYSDEC.

Soils excavated from below the demarcation layer, including but not limited to: subsurface utilities, retaining walls, pile caps and manhole structures will be staged on plastic sheeting, and segregated from soil excavated from above the demarcation. Soil stockpiles of materials excavated from beneath the demarcation layer will be managed in accordance with site Exc-WP and NYSDER-10. A B&L QEP, or someone under direct supervision of the QEP, will perform visual and photoionization detector (PID) screening of soils to aid in the segregation of soils and management of soil stockpiles. Materials removed from below the demarcation layer will be placed on 10-mil polyethylene sheeting and covered at the end of the day with anchored 10-mil polyethylene sheeting or tarps (Attachment 2A). Soil material excavated from above the demarcation layer will remain segregated from soil excavated above the demarcation layer.

Stockpiles of contaminated material identified by soil screening will be segregated in a separate soil pile and placed on 10-mil polyethylene sheeting and kept covered with appropriately anchored polyethylene sheeting or tarps (Attachment 2A). Stockpiles of contaminated materials will be inspected and maintained on a daily basis. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection of NYSDEC.

2.4 Materials Excavation and Load Out

Materials excavation and load out will be performed in accordance with Section 2.4 of the NYSDEC approved Exc-WP. Dust control will be provided in accordance with Section 2.15 of the approved Exc-WP.

2.5 Materials Transport Off-Site

Transport of materials will be performed in accordance with Section 2.5 of the NYSDEC approved Exc-WP. If required, a truck washing area will be constructed in accordance with Attachment 2B.

2.6 Materials Disposal or Reuse Off-Site

Materials such as soil/fill/solid waste/hazardous waste excavated from below the demarcation layer will be handled and disposed of in accordance with Section 2.6 of the NYSDEC approved Exc-WP.

Soils may be beneficially reused on or offsite in accordance with 6 NYCRR Part 360.13, based on soil characterization laboratory analytical results. Onsite soil reuse criteria are described in Section 2.1.1 and Section 2.7 of this Event Center Work Plan. Reuse of soil offsite requires sampling of soil by a QEP for PFAS, 1,4-dioxane VOCs, SVOCs, PCBs, metals, pesticides, and herbicides. Soils proposed for offsite reuse must by pre-approved by the NYSDEC Division of Materials Management, and meet unrestricted use soil cleanup objectives (UUSCOs).

Disposal facilities selected for the Event Center may include, but not be limited to: Waste Connections, Inc. of Colonie, New York (NYSDEC Waste Management Permit No. 4-0216-00033-00001), or the Green Ridge Landfill of Gansevoort, New York (NYSDEC Waste Management Permit No. 5-4146-00018/00009). Soil characterized for disposal must meet the sampling and analysis requirements of the selected disposal facility, in accordance with the facility's solid waste permit.

2.7 Materials Re-Use On-Site

Excavated existing soils (or in the future, soils below the demarcation layer) proposed for on-site use shall be segregated in stockpiles and in accordance with the requirements presented in Section 2.7 of the NYSDEC approved Site Exc-WP. Soil proposed for reuse onsite must be pre-approved by the NYSDEC Division of Environmental Remediation, and meet RRSCOs and PGWSCOs in accordance with 6 NYCRR Part 375 and 6 NYCRR Part 360.

Soils meeting RRSCOs are being considered for reuse as fill on Parcels A and B where required, assuming material is suitable as per 6 NYCRR Part 375 and 6 NYCRR Part 360, and has adequate geotechnical characteristics, as determined by the design engineer.

2.8 Fluids Management

Although not anticipated during the construction of the Event Center, liquids to be removed from the site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with Section 2.8 of the NYSDEC approved Exc-WP. Washout of concrete haulers must be performed in designated concrete truck washout areas, in accordance with the SWPPP. See Attachment 2 for Erosion & Sediment Control Details, including construction of truck washout areas.

2.9 Cover System Restoration

After the completion of soil removal and any other invasive activities, the cover system will be restored in a manner that complies with the approved requirements of the Remedial Design,

which includes two feet of certified cover material or other approved cover type (concrete, asphalt, etc.).

Excavation and restoration activities will be performed in a manner pre-approved by NYSDEC, and consistent with Section 2.9 of the approved Exc-WP. Proposed Final Cover System Areas are presented as Attachment 3.

2.10 Backfill from Off-Site Sources

Prior to importing any backfill to the site, a completed "Request to Import/Reuse Fill or Soil (Rev. April 2023)" form will be submitted to NYSDEC for approval in accordance with DER-10, Section 5.4(e) and 6 NYCRR Part 360.13. Materials proposed to be imported to the Site are further detailed in Table 1.

Materials proposed for import onto the site will be handled in accordance with Section 2.10 of the approved Exc-WP. NYSDEC requires 10-day notification prior to importing fill material on-site.

As a green remediation measure, the project will look to source materials that do not require additional chemical laboratory testing where possible and practical (i.e., Pea Stone instead of sand, etc.).

Current proposed imported fill sources for the Event Center may include, but not be limited to:

- Larnard and Sons of Schenectady, New York, a source of NYS DOT approved materials (Mine ID# 40564).
- Callahan Industries, Inc. of Schenectady, New York (Dolomite Products Company, Inc.) a permitted facility (Mine ID# 40506).

Additional imported fill sources and materials may be added as the project moves to construction.

2.11 Stormwater Pollution Prevention

A SWPPP for the Project will be in place and will be the governing document for stormwater pollution prevention, in accordance with Section 2.11 of the approved Exc-WP. Erosion and Sediment control features are illustrated on Attachment 2.

2.12 Contingency Plan

2.12.1 Underground Storage Tanks (USTs)

If underground storage tanks (UST) or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition. NYSDEC will be notified within two hours hour of

discovery, and a spill will be reported to the NYSDEC Spill Hotline, unless otherwise directed by NYSDEC.

Sampling will be performed as necessary to determine the nature of the material and proper disposal methods. Chemical analysis will be performed according to discussions with NYSDEC.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product released will also be reported to the NYSDEC spills hotline.

The following steps will be used for tank removal, in accordance with 6 NYCRR Parts 611 and 613, and DER-10 Section 5.5:

- Break up and remove the concrete pad overlying the tanks, if present.
- Excavate around the tanks to expose their full length and width. Screen soil as it is removed and place stockpiled soil on a plastic sheet.
- Investigate tank for presence of residual tank fluids. Sample and analyze fluids for analytical parameters required by the disposal facility. Residual tank fluids are to be removed and containerized in drums, or via vacuum truck, for proper disposal in accordance with local, state and federal regulations at a permitted disposal facility.
- Measure vapor concentrations in the tank with a portable meter capable of measuring the specific petroleum vapors in the range of the Lower Explosive Limit (LEL). No cutting will begin until vapor concentrations are below 10% of the LEL. If needed, the tank will be ventilated to reach the necessary limit.
- Determine whether tanks have been filled with solids (e.g., soil, flowable fill). If tanks have been filled with solids, cut and remove the upper part of the tank to access contents. Remove solids from the tank using a backhoe or other appropriate means, and place the solids into lined roll-offs, bermed soil staging areas or other appropriate containers. Sample and analyze solids for analytical parameters required by the disposal facility.
- Cut tanks into workable sections.
- Remove tank sections from the excavation and clean tank interior as needed; contain rinsate.
- Transport tank sections to local scrap yard following NYSDEC inspection and approval.
- Inspect the excavation for indications of tank leakage.

- If impacted soils are encountered, excavated and stockpiled soils will be segregated, and placed on plastic sheeting, bermed to prohibit run-off, and enveloped with plastic sheeting to prevent contact with stormwater.
- Excavation will be continued vertically and laterally until the impacted soils have been removed (with NYSDEC concurrence).
- Backfill the excavation with approved on-site fill, or certified imported fill material.

2.12.2 Free Product/Sheen Observations

The shoreline of the Mohawk River will be monitored during construction by B&L for the presence of sheen that could result from the installation of the piles. If sheen is noted, an absorbent boom shall be installed by Owner's remediation contractor, to contain observed impacts. The NYSDEC will be notified, as appropriate, should petroleum sheens be observed at the shoreline during construction.

2.13 Community Air Monitoring Plan

A generic Community Air Monitoring Plan (CAMP) is provided in the HASP included as Appendix A of the approved Exc-WP. CAMP monitoring will be performed by Ambient Environmental, Inc. (Ambient) of Albany, New York in accordance with the NYSDEC-approved Exc-WP, under the oversight of a B&L QEP. A weekly CAMP summary report will be provided by Ambient, and will include: CAMP station locations, prevailing wind direction(s), PID measurements, particulate monitoring results, and any noted exceedances.

Soils excavated from beneath the demarcation layer will be screened by a B&L QEP, or someone under direct supervision of a B&L QEP, in accordance with Section 2.3 of this Event Center Work Plan. A table describing excavations anticipated beneath the demarcation layer is provided as Table 1.

2.14 Odor Control Plan

An odor control plan will be implemented in accordance with section 2.14 of the approved Exc-WP.

2.15 Dust Control Plan

A dust suppression plan will be implemented in accordance with section 2.15 of the approved Exc-WP.

2.16 Green and Sustainable Site Remediation (GSR)

While the NYSDEC's goal is to address unacceptable risk from hazardous substance releases, consideration of the cleanup activities broader impacts on the community and the environment is consistent with the NYSDEC sustainability and Greenhouse Gas (GHG) reduction goals as outlined in NYSDEC policy DER-31 Green Remediation. During implementation of the selected

remedy, B&L will implement GSR principals and techniques to the extent feasible including but not limited to:

- Reducing direct and indirect GHG and other emissions through the use of ultra-low sulfur diesel (ULSD) and vehicle idling prohibitions.
- Utilizing equipment that is properly maintained for efficient fuel consumption.
- Reduction of fossil-fuels and emissions using locally sourced fill materials and locally owned soil disposal facilities.
- Reduction in imported fill material quantities by reusing excavated materials onsite where possible and practical.
- Utilizing imported fill materials that do not require additional chemical laboratory testing where possible and practical (i.e., pea stone instead of sand, etc.).
- Minimizing truck traffic by use of onsite fill material.
- Conserving and efficiently reducing waste through the use of lithium-ion rechargeable batteries in CAMP monitoring equipment.
- Integrating the remedy with the Site's end use where possible and encouraging green and sustainable re-development.
- Routine monitoring and maintenance will be performed by the contractor to minimize equipment inefficiencies.

2.17 Pressure Monitoring/Vapor Barrier System

The soil vapor barrier system will include using the Event Centers HVAC system to create a positive pressure envelop within the building. The system will include installation of 2 layers of 10 oz. non-woven fabric placed above and below a 20-mil High Density Polyethylene (HDPE) barrier system, and positive pressure provided to the building interior via the HVAC system. The vapor barrier system will be installed immediately below the Event Center concrete slab system and appropriately sealed vapor tight around any penetrations (structural piles, utilities, etc.). This vapor barrier system option is consistent with what was approved, and is currently in use, at the Landing Hotel and Rivers Casino project.

- Pressure differential monitoring points will be installed at the approximate locations depicted in Attachment 4.
- An example pressure differential monitoring point construction schematic, as provided by Rifenburg Construction in the previously NYSDEC/NYSDOH-approved Landings Hotel and Rivers Casino construction, is provided as Attachment 5.

2.18 Project-specific Report

A project specific report will be prepared following construction completion of the Event Center. The project completion report will include: a project summary, CAMP results, weekly CAMP

summaries, completed construction record drawings, photographs, laboratory analytical results, and a summary of any issues that occurred during construction. Green remediation measures utilized will also be described.

The SMP will be updated by B&L to include the Event Center following completion of the Event Center construction.

Table 1

Soil Excavation Areas

Table 1
Soil Excavation Areas
Event Center Work Plan
Former ALCO Site

Type	Drawing Reference	Above/Below Demarcation Layer?	Description	Estimated Excavation Volume (yd^3) Above Demarcation	Estimated Excavation Volume (yd^3) Below Demarcation	Estimated Fill Volume (yd^3)	Fill Material Type	Handling Procedure(s)
Installation of Soil Piles	Foundation Plan Areas (S101 AB, S101 CD, S101 EF, S101 GH), S510 - Typical Pile Detail	Above/Below	The Event Center will be built on approximately 327 structural steel piles driven into the ground to a depth of 85 feet. The piles will penetrate both the soil cover system and the soils beneath the demarcation layer. Pile caps are planned beneath the concrete slab at depths of approxiamtely 2 to 4 feet below finished grade as determined by the pile cap construction detail.	±4,800	±2,400	±2,500	Piles to be capped using concrete pile caps of various types (See Structural Drawing S510-Typical Pile Details). Where backfilled is required, pile cap excavations will be backfilled with reuse of approved onsite materials, or imported backfilled consisting of structural fill / ASTM C33 Blend 57 crushed stone.	Installation of structural piles will involve the generation of excavation spoils of both cover soils (from above the demarcation layer) and generation of potentially impacted soils from below the demarcation layer. Excavated fill materials generated are required to be segregated and stockpiled prior to analytical testing to determine soil reuse and/or disposal options, as per the Event Center Work Plan. Soil stockpiles of material excavated above and below the demarcation layer will be segregated and staged on, and covered with, 10-mil polyethylene sheeting and will be appropriately anchored, as per the Exc-WP.
Subsurface Utility Excavations (Water/Sewer/Storm Pipe, Grease Traps, Electrical Pad/Conduits)	C5 - Sanitary Sewer Plan and Details, C6A/B - Water Plan and Details, C7 - Storm Sewer Plan and Details	Below	Subsurface utilities will be installed during the construction of the proposed Event Center. Subsurface utilities are expected to be installed in trench excavation with minimum depths of 2 to 4 feet below finished grade.	±550	±1300	±1900	Subsurface utilities will be backfilled with reuse of approved onsite suitable fill materials or approved imported fill materials that may include bedding sand, No. 1 and No. 2 broken stone, No. 1 and No. 2 crushed stone, 1a crushed pea stone, Type 1 Run of Bank (R.O.B.) Gravel.	Installation of utilities will involve the generation of excavation spoils of both cover soils (from above the demarcation layer) and generation of potentially impacted soils from below the demarcation layer. Excavated fill materials generated are required to be segregated and stockpiled prior to analytical testing to determine soil reuse and/or disposal options, as per the Event Center Work Plan. Soil stockpiles of material excavated above and below the demarcation layer will be segregated and staged on, and covered with, 10-mil polyethylene sheeting and will be appropriately anchored, as per the Exc-WP.
Subsurface Structures (Manholes, Catch Basins Hydrant, Valves, etc.)	C5 - Sanitary Sewer Plan and Details, C6A/B - Water Plan and Details, C7 - Storm Sewer Plan and Details	Below	The event center will require installation and relocation of catch basins and manhole structures. Catch basins are expected to be installed up to depths of approximately 8 feet below finished grade. Manholes are expected to be installed to depths of up to 14 feet below finished grade. Total depths will be dependent on existing utility depths, utility slope, and finish grade.	±25	±120	±150	Subsurface structures are expected to be backfilled using compacted size 1a crushed pea stone, R.O.B. Gravel (Type 1), 6 inch crushed stone,	Installation of subsurface structures (manholes, catch basins, etc.) will involve the generation of excavation spoils of both cover soils (from above the demarcation layer) and generation of potentially impacted soils from below the demarcation layer. Excavated fill materials generated are required to be segregated and stockpiled prior to analytical testing to determine soil reuse and/or disposal options, as per the Event Center Work Plan. Soil stockpiles of material excavated beneath the demarcation layer will be staged on, and covered with, 10-mil polyethylene sheeting and will be appropriately anchored, as per the Exc-WP.
Bike Path Installation and Bike Racks	C9 - Site Details, C-16 Site Grading Plan	Above/Below	As part of the Event Center construction, the bike path will be extended around the facility perimeter. Excavation of site cover soils to a depth of approximately 11 inches below finish grade will be completed. Construction of the bike racks will extend 1 foot below finish grade.	±450	±5	±500	The finished bike path will consist of the placement of 8 inches of Type 2 crusher-run subbase overlain with 2 inches of asphaltic concrete base and 1 inch of asphaltic concrete top.	Excavation depths for the bike path are not anticipated to intercept the underlying demarcation fabric. Installation of the bike path will involve the generation of cover soil spoils (from above the demarcation layer). Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan.
Concrete Installation (Sidewalk, Concrete Pads, Loading Areas)	C-3 - Site Plan, C-9 - Site Details	Above	Concrete sidewalks and loading areas will require excavation of 1 foot of cover soil material. Sidewalks and loading areas are located around the east, west, and southern exterior of the the Event Center.	±250	--	±300	6 inch minimum of stabilized crusher-run gravel.	Excavation depths for the sidewalks and loading areas are not anticipated to intercept the underlying demarcation fabric. Installation of sidewalks and loading areas will involve the generation of cover soil spoils (from above the demarcation layer). Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan.
Parking Lot Installation, Bollards, Fencing and New Light Poles	C13 - Shared Parking Index, C14 - Shared Parking, , C-16 Site Grading Plan	Above/Below	The Event Center parking areas will require the excavation of approximately 16 inches of cover soil for placement. Installation of light poles will extend approximately 1 foot below the demarcation. Bollards and fencing may also require installation below the demarcation; however, minimal penetration below the demarcation is anticipated.	±1,200	±10	±1,300	Type 2 crusher-run subbase, will be used to backfill 1 foot, followed by the placement of 2.5 inches of asphaltic concrete base course and 1.5 inches of asphaltic concrete top course	Excavation depths for the parking lot installation are not anticipated to intercept the underlying demarcation fabric. Installation of the parking areas will involve the generation of cover soil spoils (from above the demarcation layer). Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan. Minimal disturbance of soils below the demarcation are anticipated during installation of the light poles, bollards, or fence posts. Excavated soils will be staged on poly and covered with the same for testing and reuse either on or off-site per the Event Center Work Plan.
Access Roadway Construction	C-9 - Site Details, C12 - Harborside Drive, C-16 Site Grading Plan	Above	The access road leading into the Event Center will require the excavation of approximately 17 inches of cover soil material.	±1,300	--	±1,400	Cover soils will be replaced with 1 foot of Type 2 crusher-run subbase material followed by 3 inches of conventional binder, and a 2 inch top course asphalt.	Excavation depths for the site access roadway are not anticipated to intercept the underlying demarcation fabric. Installation of the access roadway will involve the generation of excavation spoils of cover soils (from above the demarcation layer). Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan.
Retaining Walls	C-9 - Site Details, C-16 Site Grading Plan	Above	Retaining walls to be placed on unexcavated ground, and placed on top of a 6 inch minimum compacted base. While not anticipated, limited excavation of cover soils may be required.	N/A	N/A	N/A	As per the specifications, well graded, free draining aggregate, 0.25 to 1.5 inch, with no more than 10% passing #200 sieve.	Excavation of cover soils are not anticipated. In the event cover soils require limited excavation, excavations spoils would be limited to the generation of cover soil spoils (from above the demarcation layer). Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan.
Landscaping	C-8 - Landscaping Plan	Above/Below	Tree and shrub plantings. Planting depths will vary based on species. Tree plantings will extend 1 foot below the demarcation layer.	±50	±35	±85	Planting soil mix consisting of 2/3 toposoil plus 1/3 organic compost	Excavation depths for tree plantings anticipated to extend approximately 3 feet below final grade and intercept the demarcation layer. Excavation depth for shrub planting anticipated to extend approximately 2 feet below grade without intercepting the demarcation layer. Excavated Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan.
Grass Pavement	C-9 - Site Details, C-11 - Turning Template, C-16 Site Grading Plan	Above	Placement of grass paver cells will penetrate the cover system to a depth of 19.5 inches below existing grade. Grass pavers will be installed adjacent to the bike path on the north side of the Event Center facility. Grass pavers provide an environmentally friendly surface for trafficked areas and allows for high surface water infiltration.	±300	--	±300	Type 4 crusher run subbase material	Excavation depths for grass pavers are not anticipated to intercept the underlying demarcation fabric.Installation of grass pavement will involve the generation of excavation spoils of cover soils (from above the demarcation layer). Soils will be staged on and covered with 10-mil poly sheeting and tested for reuse either on or off-site per the Event Center Work Plan.

Attachment 1

Site Plan


VICINITY MAP
MAP NOT TO SCALE
SITE
MOHAWK RIVER
PARCEL A
Land Area=
896,496 S.F.
20.58± Acres
Proposed Mohawk Harbor Event Center
PARCEL B
Land Area=
1,333,451 S.F.
30.61± Acres
PARCEL C-1
Land Area=
248,141 S.F.
5.7± Acres
PARCEL C-2
Land Area=
13,721 S.F.
0.31± Acres
Harbor Area within Parcel A=
95,696 S.F.
2.20 Acres
Harbor Area within Parcel B=
102,154 S.F.
2.47± Acres
LANDS N/F OF S & T OPERATIONS LTD. L.1796 P.545
ERIE BOULEVARD REAR TAX MAP No. 39.41-1-6 LANDS N/F OF MAXON ALCO HOLDINGS LLC
1 RUSH STREET TAX MAP No. 39.49-2-1.71 LANDS N/F OF MAXON ALCO HOLDINGS LLC
P.O.B. PARCEL A
P.O.B. PARCEL B
P.O.B. PARCEL C-1
P.O.B. PARCEL C-2
P.O.C. LANDS TO BE CONVEYED FROM RPI
P.O.B. No.1947 ERIE BOULEVARD EXCEPTION
FRONT STREET
MAXON ROAD
ERIE BLVD
R=1,386.53
DELTA=03°30'58"
L=85.09'
CHORD=S29°53'19"W 85.08'
"AUTHORIZED VEHICLES ONLY"
TIE DISTANCE
PARCEL A
WITH LANDS UNDERWATER
Land Area=
896,496 S.F.
20.58± Acres
WITHOUT LANDS UNDERWATER
Land Area=
834,089 S.F.
19.15± Acres
PARCEL B
Land Area=
1,333,451 S.F.
30.61± Acres
PARCEL C
Land Area=
261,862 S.F.
6.01± Acres
HARBOR AREA
Land Area=
201,594 S.F.
4.67± Acres

HERSHBERG & HERSHBERG
Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, IS ILLEGAL

STATE OF NEW YORK — DANIEL R. HERSHBERG — 044226 — LICENSED PROFESSIONAL ENGINEER & LAND SURVEYOR

DATE	REMARKS

REVISIONS

MOHAWK HARBOR
BROWN FIELD PARCELS WITH IMPROVEMENTS
CITY OF SCHENECTADY, SCHENECTADY COUNTY, NEW YORK

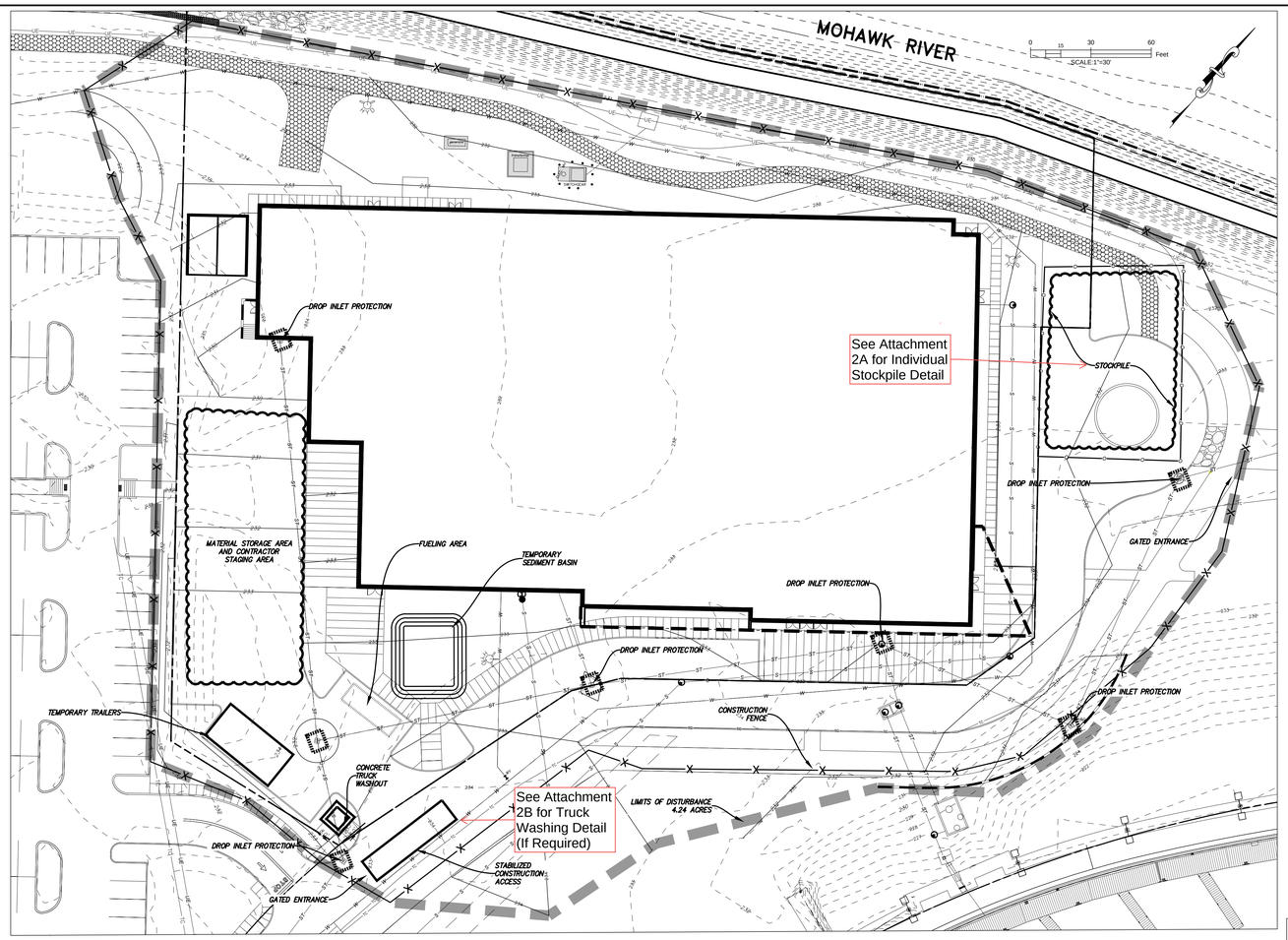
APPLICANT:
MAXON ALCO HOLDINGS LLC.
220 HARBORSIDE DR STE 300
SCHENECTADY NEW YORK 12305

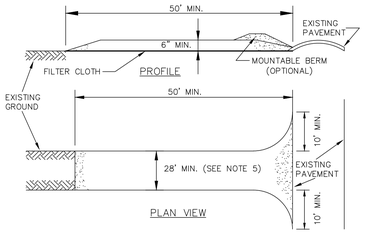
FILE: 220206 | SCALE: AS NOTED | BY: SMcC | CHK: DRH | DATE: 10/27/23 | 2022-0206.DWG

Attachment 1

Attachment 2

Erosion and Sediment Control



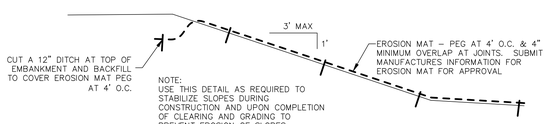


CONSTRUCTION SPECIFICATIONS:

1. INSTALL CONSTRUCTION ENTRANCE IN ACCORDANCE WITH "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A.
2. STONE SIZE –USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
3. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
4. THICKNESS– NOT LESS THAN (6) INCHES.
5. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. IF CONSTRUCTED AS THE ONLY ENTRANCE TO THE SITE, WIDTH SHALL BE TWENTY–FOUR (24) FEET.
5. STABILIZATION FABRIC – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS ONTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



STABILIZED SLOPE DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES

1. ANY CONTRACTOR INVOLVED IN EARTHWORK ACTIVITIES, INCLUDING BUT NOT LIMITED TO CLEARING, GRADING AND TRENCHING, SHALL REVIEW ALL PERMIT CONDITIONS AND CERTIFY UNDERSTANDING OF THESE CONDITIONS, IN WRITING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ALL EROSION CONTROLS DESCRIBED IN GP–0–15–002, AND IT IS NOT THE INTENT OF THESE DRAWINGS TO REPLACE OR DISSEMINATE THE PERMIT REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH THE PERMIT AT ALL TIMES.
2. AT ALL TIMES SOIL DISTURBING ACTIVITIES SHALL REMAIN LESS THAN 1 ACRE. THE CONTRACTOR SHALL COORDINATE EARTHWORK ACTIVITIES AND IMPLEMENTATION OF SOIL STABILIZATION MEASURES TO ENSURE COMPLIANCE TO THIS PERMIT REQUIREMENT. THE SITE WILL BE MONITORED AT ALL TIMES TO ENSURE SOIL DISTURBANCE DOES NOT EXCEED 1 ACRE. IF THE SOIL DISTURBANCE EXCEEDS ONE ACRE AT ANY TIME, A STOP WORK ORDER WILL ISSUED UNTIL THE SITE RECEIVES COVERAGE UNDER SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION AND EQUIPMENT ENTRANCE WHENEVER PRACTICABLE.
4. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OR SUSPENSION OF GRADING OPERATIONS.
5. INSTALL TEMPORARY & PERMANENT SEEDING IN ACCORDANCE WITH THE NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL STANDARD AND SPECIFICATION FOR TEMPORARY CONSTRUCTION AREA SEEDING AND FOR MULCHING:

STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA PLANTINGS, PAGE 4.5A:
WATER MANAGEMENT PRACTICES MUST BE INSTALLED AS APPROPRIATE FOR SITE CONDITIONS. THE AREA MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE. LARGE DEBRIS AND ROCKS ARE USUALLY REMOVED. SEEDBED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING.

FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDINGS.

IF: SPRING OR SUMMER OR EARLY FALL, THEN SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE. (APPROXMATELY 0.7 LB./1000 SQ. FT. OR USE 1 LB./1000 SQ. FT.)

IF: LATE FALL OR EARLY WINTER, THEN SEED CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) AT 1000 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.).

ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.

MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/ACRE (APPROX. 90 LBS./1000 SQ. FT. OR 2 BALES). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS; MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS. CAUTION IS ADVISED WHEN USING NYLON OR OTHER SYNTHETIC PRODUCTS. THEY MAY BE DIFFICULT TO REMOVE PRIOR TO FINAL SEEDING AND CAN BE A HAZARD TO YOUNG WILDLIFE SPECIES.

MULCH ANCHORING GUIDE – TABLE 4.3, PAGE 4.4L

TABLE 4.3
MULCH ANCHORING GUIDE

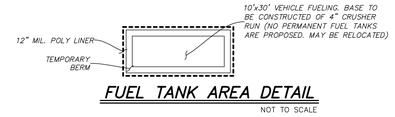
ANCHORING METHOD OR MATERIAL	KIND OF MULCH TO BE ANCHORED	HOW TO APPLY
PEG AND TWINE SQ. YD. IN SIZE. DRIVE 4–6 PEGS PER BLOCK TO WITHIN 2" TO SECURE TWINE AROUND EACH PEG WITH 2 OR MORE TIGHT TURNS.	HAY OR STRAW	AFTER MULCHING, DIVIDE AREAS INTO BLOCKS APPROXIMATELY 1 STRETCHING TWINE BETWEEN PEGS IN CRISS–CROSS PATTERN ON THE TWINE. 3" OF SOIL SURFACE. SECURE MULCH TO SURFACE BY TIGHTENS DRIVE PEGS FLUSH WITH SOIL. DRIVING STAKES INTO GROUND
MULCH NETTING NETTINGS TO SOIL SURFACE ACCORDING TO MANUFACTURER'S	HAY OR STRAW	STAPLE THE LIGHT–WEIGHT PAPER, JUTE, WOOD FIBER, OR PLASTIC ARE NOT SUITABLE FOR FOOT TRAFFIC. RECOMMENDATIONS. SHOULD BE BIODEGRADABLE. MOST PRODUCTS
WOOD CELLULOSE FIBER LBS. WOOD FIBER PER ACRE. SOME PRODUCTS CONTAIN AN	HAY OR STRAW	APPLY WITH HYDROSEEDER IMMEDIATELY AFTER MULCHING. USE 500 ADHESIVE MATERIAL ("TACKIFIER"), POSSIBLY ADVANTAGEOUS.
MULCH ANCHORING TOOL SOIL	HAY OR STRAW STRAIGHT DISCS) OVER MULCH AS NEAR TO THE CONTOUR AS	APPLY MULCH AND PULL A MULCH ANCHORING TOOL (BLUNT, SURFACE ABOUT 3". POSSIBLE. MULCH MATERIAL SHOULD BE "TUCKED" INTO
TACKIFIER HIGHER	HAY OR STRAW MANUFACTURER'S INSTRUCTIONS. AVOID APPLICATION DURING RAIN.	MIX AND APPLY POLYMERIC AND GUM TACKIFIERS ACCORDING TO THAN 45° FAHRENHEIT ARE REQUIRED. A 24–HOUR CURING PERIOD AND A SOIL TEMPERATURE

7. INSTALL PERMANENT RIP–RAP AT ALL PIPE END SECTIONS AT TIME OF INSTALLATION OF PIPE.
8. SEE REMAINDER OF PLANS FOR PERMANENT IMPROVEMENTS. PERMANENT IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY.
9. PAVED AREAS ARE TO BE SWEPT DAILY TO REMOVE ANY SEDIMENT AND ALL NEWLY PAVED AREAS SHALL BE DIRECTED TO THE TEMPORARY OR FINAL SEDIMENT CONTROL BASINS.

NOTES:
1. AN ON–SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF–SITE PROPERTY.
2. REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 0.5". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE CITY.

TEMPORARY TOPSOIL STOCKPILE DETAIL

NOT TO SCALE

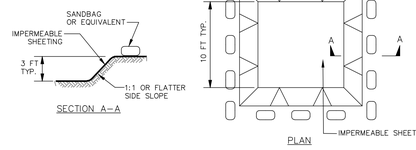


FUEL TANK AREA DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL LEGEND

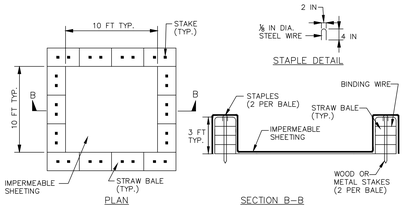
- PROPOSED SEDIMENT CONTROL FENCE
- PROPOSED DROP INLET PROTECTION
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CONCRETE WASHOUT
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE



EXCAVATED WASHOUT STRUCTURE

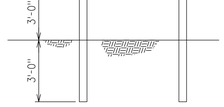
CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET–VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

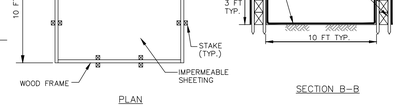


NOTE: CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

WASHOUT STRUCTURE WITH STRAW BALES



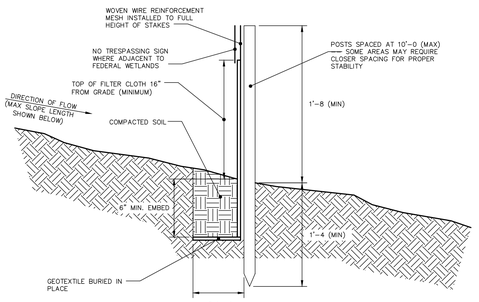
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



WASHOUT STRUCTURE WITH WOOD PLANKS

ONSITE CONCRETE TRUCK WASHOUT STRUCTURE DETAIL

NOT TO SCALE



MAXIMUM ALLOWABLE SLOPE LENGTH

MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SECTION OF SILT FENCE SHALL BE AS FOLLOWS:

SLOPE STEEPNESS:	MAX. SLOPE LENGTH:
1:2	25 FT
1:3	50 FT
1:4	75 FT
1:5 OR FLATTER	100 FT

NOTE: MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO SILT FENCE SECTION SHALL NOT EXCEED 1/4 ACRE PER 100 FT OF FENCE. CONCENTRATED DISCHARGE OF SEDIMENT LADEN WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO THE FENCING.

SEDIMENT CONTROL FENCE INSTALLATION DETAIL

NOT TO SCALE

SILT FENCE JOINT DETAIL

POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 12 1/2 GA. 6" MAX. MESH OPENING

FILTER CLOTH:FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

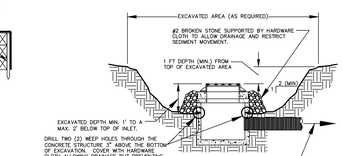
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. INSTALL SILT FENCE IN ACCORDANCE WITH "THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A.
2. WOVEN WIRE FENCE SHALL BE 12 1/2 GA., 6" MAXIMUM MESH OPENING, FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
3. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE WRAPPED TOGETHER PER SILT FENCE JOINT DETAIL ON THIS SHEET.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN ACCUMULATION REACHES 1/2 OF DESIGN CAPACITY OF FENCE (1/2 HEIGHT OF FILTER FABRIC) OR WHEN "BULGES" DEVELOP IN FENCING.

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL." (aka: THE BLUE BOOK) EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. IT IS THE INTENT OF THESE PLANS AND NOTES TO BE USED AS A GUIDE BY THE CONTRACTOR TO ENSURE THAT NO PRODUCT MATERIAL SEDIMENT FROM THE SITE OR WORKS ANY WATER DURING IT TO THE CONTRACTOR'S MATERIAL TO ENSURE THAT THIS GOAL IS MET BY IMPLEMENTING THESE PLANS AND ANY ADDITIONAL MEANS THAT MAY BE NECESSARY. FURTHER MEASURES MAY BE REQUIRED BY THE CITY, VILLAGE, OR TOWN ENGINEER. WHILE MANY OF THE EROSION CONTROL DETAILS CONTAINED WITHIN THESE PLANS ARE TAKEN DIRECTLY FROM THE BLUE BOOK, THE CONTRACTOR SHOULD CONSIDER ANY OF THE DETAILS CONTAINED IN THE JULY 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL AS ACCEPTABLE PRACTICE IN THE APPROPRIATE APPLICATION.
3. THE DEVELOPER/CONTRACTOR OR HIS BUILDER SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT THROUGHOUT THE ENTIRE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTIONING. ALL SEDIMENT ACCUMULATED SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. ALL EROSION CONTROL DEVICES SHALL BE REPAIRED, RE–SEEDED AND PROTECTED FROM FURTHER EROSION. ALL SEDIMENT ACCUMULATED SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. DURING THESE PERIODIC INSPECTIONS, THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION:
   A. THE BASIN INLET LOCATIONS SHALL BE INSPECTED FOR SILT ACCUMULATION CAUSED BY THE LACK OF ESTABLISHED SURROUNDING VEGETATION.
   B. CHECK DAMS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION.
   C. RIP–RAP OUTLET PROTECTION SHALL ALSO BE CHECKED FOR SEDIMENT ACCUMULATION. IF SIGNIFICANT AMOUNTS OF SEDIMENT ACCUMULATE, RIP–RAP SHALL BE REMOVED AND REPLACED.
   D. STONE CHECK DAMS AND SILT FENCING SHALL BE INSPECTED REGULARLY FOR UNDERMINING AND DETERIORATION.
   E. SEEDED/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.
4. EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL THE ENGINEER HAS APPROVED FINAL STABILIZATION.
5. NOTE REMOVED.
6. PRIOR TO CONSTRUCTION OF ANY PHASE, THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.
7. CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES. EQUIPMENT SHALL NOT OPERATE, UNNECESSARILY,
8. EXISTING PAVEMENT AREAS SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER.
9. WATER TRUCKS SHALL BE USED TO MINIMIZE DUST POLLUTION ON SITE, AND ON ADJACENT ROADWAYS ROADWAY AREAS AS DIRECTED BY THE ENGINEER.
10. ANY WATER PUMPED AS A RESULT OF DEWATERING ACTIVITIES SHALL BE PUMPED INTO A DEWATERING PIT.
11. CONCRETE WASHOUT AREAS SHALL BE DESIGNATED BY THE DESIGN ENGINEER AND PROTECTED IN ACCORDANCE WITH GP–0–15–002.
12. ALL AREAS DISTURBED IN THE CONSTRUCTION PROCESS SHALL BE RE–SEEDED AS SOON AS PRACTICABLE. PARTICULAR CARE SHALL BE TAKEN TO RE–SEED DISTURBED SLOPES IN A TIMELY MANNER.
13. IT IS RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE PLACED FOR THE ENTIRE PHASE AS SHOWN ON THE EROSION CONTROL PLAN. PLACEMENT MAY BE DONE, HOWEVER, TO SUIT CONSTRUCTION SEQUENCING AS APPROVED BY THE ENGINEER.
14. STOCK PILES SHALL BE PROTECTED BY A SEDIMENT CONTROL FENCE OR TEMPORARY SEDIMENT CONTROL TRENCH PER GP–0–15–002. THESE FENCES/TRENCHES SHALL BE MAINTAINED IN GOOD CONDITION UNTIL SAID STOCK PILES ARE REMOVED AND STOCK PILING AREAS ARE PERMANENTLY STABILIZED.
15. STOCK PILES SHALL BE SEEDED UPON SUSPENSION OF WORK OR IF MATERIAL IS NOT TO BE USED WITHIN 14 DAYS, IN ACCORDANCE WITH GP–0–15–002.
16. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.
17. SILT FENCING SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETERS OF ALL SLOPES TO BE GRADED, PRIOR TO GRADING OPERATIONS.
18. SEDIMENT STILLING BASINS SHALL BE UTILIZED TO PREVENT OFF SITE EROSION.
19. THE STORMWATER DETENTION PONDS AND CUT–OFF SWALES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF ADJACENT AREAS.
20. WHERE NECESSARY, TEMPORARY GRADING WILL BE REQUIRED TO ROUTE STORMWATER TO CUT OFF SWALES AND DETENTION PONDS.
21. UPON INSTALLATION OF ANY CATCH BASIN, INSTALL EXCAVATED DROP INLET PROTECTION, THIS SHALL REMAIN UNTIL THE DRAINAGE AREA IS STABILIZED.
22. PRIOR TO ANY CONSTRUCTION ALL FEDERAL JURISDICTIONAL WETLANDS SHALL BE FIELD LOCATED AND DELINEATED WITH SILT FENCING AND ORANGE CONSTRUCTION FENCE. THE ORANGE FENCING SHALL BE INSTALLED AT THE ESTABLISHED WETLAND BUFFER LINE, AND THE SILT FENCE SHALL BE LOCATED BETWEEN THE BUFFER AND THE JOB SITE.
23. CLEARING OPERATIONS SHALL BE LIMITED TO ACTIVE WORK AREAS.
24. CARE SHALL BE TAKEN TO PRESERVE AS MUCH EXISTING VEGETATION AS POSSIBLE AND HEALTHY TREES OF DESIRABLE SPECIES SHALL BE PROTECTED.
25. RIP–RAP OUTLET PROTECTION: RIP–RAP SHALL BE PROVIDED AT CULVERT LOCATIONS AS INDICATED ON THESE DRAWINGS. THE RIP–RAP SHALL PROTECT SIDE SLOPES FROM EROSION, AND SHALL BE ESTABLISHED AS THE CULVERT IS INSTALLED.
26. STORM INLET PROTECTION: IMMEDIATELY FOLLOWING COMPLETION OF ANY AND ALL OF THE PROPOSED STORM DRAIN INLETS, STORM DRAIN INLET PROTECTION SHALL BE CONSTRUCTED. THIS PROTECTION SHALL FUNCTION TO PREVENT SEDIMENT ENTRANCE INTO THE STORM DRAINS. PROTECTION SHALL BE MAINTAINED IN GOOD CONDITION UNTIL THE DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
27. NOTE REMOVED.
28. RECP (ROLLED EROSION CONTROL PRODUCT) SHALL BE JUTE OR EXCELSOR MATTING. PROVIDE 4" MIN. TOPSOIL AND SEED WITH KENTUCKY BLUEGRASS, CREEPING RED FESCUE AND PERDIAL RYGRASS AT A RATE OF 25, 20 AND 10 LBS PER ACRE RESPECTIVELY.
29. EROSION AND SEDIMENT CONTROL MEASURES SHALL INCLUDE A SWPPP MONITORING PROFESSIONAL AS WELL AS COORDINATION WITH MUNICIPALITY OFFICIALS IN ADDITION TO INSPECTION ROLES OF CONTRACTOR AND/OR SITE CONTRACTOR.



EXCAVATED DROP INLET PROTECTION

NOT TO SCALE

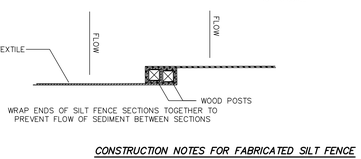
CONSTRUCTION SPECIFICATIONS:

1. INSTALL INLET PROTECTION IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
2. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
3. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
4. WEEP HOLES SHALL BE PROTECTED BY 2"ø STONE OR GRAVEL.
5. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.
6. THE MAXIMUM DRAINAGE AREA SHALL BE 1 ACRE.

DESIGN CRITERIA:

LIMIT THE DRAINAGE AREA TO THE INLET DEVICE TO ONE (1) ACRE. EXCAVATED SIDE SLOPES SHALL BE NO STEEPER THEN 2:1. THE MINIMUM DEPTH SHALL BE 1 FOOT AND THE MAXIMUM DEPTH 2 FEET AS MEASURED FROM THE CREST OF THE INLET STRUCTURE. SHAPE THE EXCAVATED BASIN TO FIT CONDITIONS WITH THE LONGEST DIMENSION ORIENTATED TOWARD THE LONGEST INFLOW AREA TO PROVIDE MAXIMUM TRAP EFFICIENCY. THE CAPACITY OF THE EXCAVATED BASIN SHOULD BE ESTABLISHED TO CONTAIN 900 CUBIC FEET PER ACRE OF DISTURBED AREA. WEEP HOLES, PROTECTED BY FABRIC AND STONE, SHOULD BE PROVIDED FOR DRAINING THE TEMPORARY POOL.

INSPECT AND CLEAN THE EXCAVATED BASIN AFTER EVERY STORM. SEDIMENT SHOULD BE REMOVED WHEN 50 PERCENT OF THE STORAGE VOLUME IS ACHIEVED. THIS MATERIAL SHOULD BE INCORPORATED INTO THE SITE IN A STABILIZED MANNER.



EXCAVATED DROP INLET PROTECTION

NOT TO SCALE

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NOT FOR CONSTRUCTION

EXP: 01/01/202#

CERT. NO. 52904

EXP: 01/01/202#

CERTIFICATE OF AUTHORIZATION NUMBER: CORPORATE ENGINEERING LICENSE NO C-0430
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

APPLICANT:
MAXON ALCO HOLDINGS LLC.
220 HARBORSIDE DR STE 300
SCHENECTADY NEW YORK 12305

DESIGN DEVELOPMENT
EVENT CENTER
No.101 HARBORSIDE DRIVE
CITY OF SCHENECTADY, NEW YORK
SCHENECTADY COUNTY

NO:	DATE:	DESCRIPTION:
Revisions	11/14/2023	GENERAL REVISIONS

S.E.D. NUMBER:
PROJECT NUMBER: 220206-1
SCALE: AS SHOWN
DRAWN BY: SMcC
REVIEWED BY: DRH
ISSUED FOR: DRH
DATE: 10/9/2023
DRAWING NAME:

EROSION AND SEDIMENT CONTROL

DRAWING NUMBER:

C4

Attachment 2

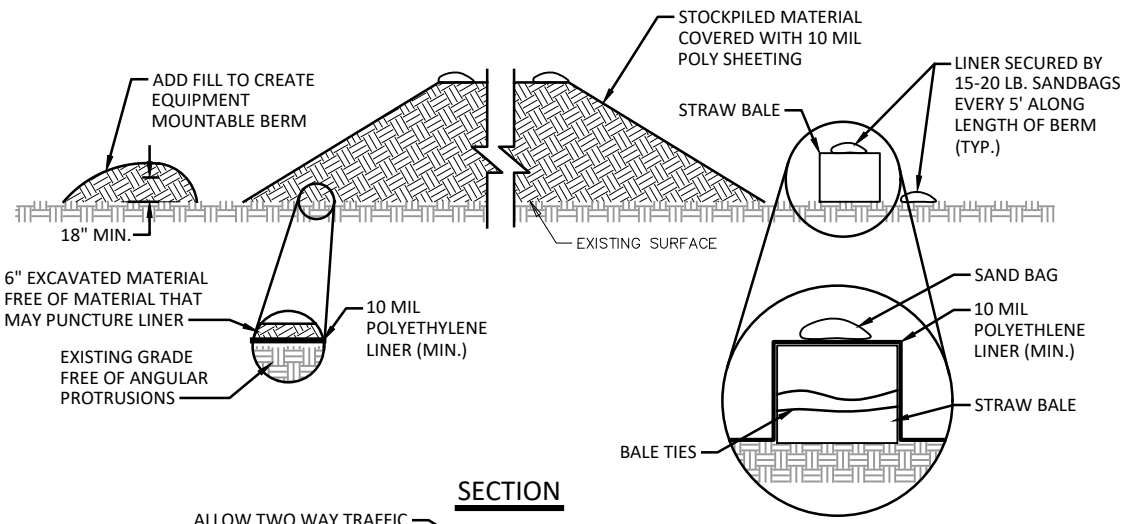
Version 23.1
Plotted:
6/8/2010 8:47:56 AM

Attachment 2A

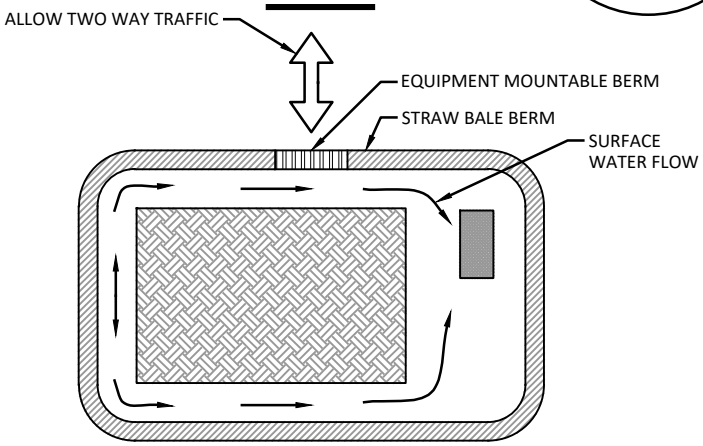
Stockpile Detail

2A STOCKPILE MANAGEMENT

NOT TO SCALE



SECTION



PLAN

STOCKPILE AREA NOTES:

1. STOCKPILE AREA DIMENSIONS AND SHAPE MAY VARY. ACTUAL SIZE WILL BE DETERMINED BASED ON SITE CONDITIONS AND REQUIRED STORAGE VOLUME. CONTRACTOR SHALL DETERMINE FINAL SIZE OF AREA WITH APPROVAL BY THE ENGINEER.
2. CONTAINMENT BERMS MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
3. INITIAL PLACEMENT OF MATERIAL WILL BE CAREFULLY PLACED SUCH THAT EQUIPMENT DOES NOT DAMAGE LINER. CONTAINMENT BERMS HEIGHT SHALL BE AS REQUIRED TO CONTAIN ANTICIPATED STORMWATER FLOWS.
4. DAILY INSPECTION AND MAINTENANCE IS REQUIRED FOR THE DURATION OF THE PROJECT.
5. STOCKPILED SOIL WILL BE COVERED WITH 10 MIL POLY SHEETING AND BALLASTED WITH SAND BAGS, OR EQUIVALENT, AT THE END OF EACH DAY AND WHEN NOT BEING WORKED ON.
6. WHEN ONE-HALF (1/2) FULL, THE COLLECTION SUMP IS TO BE PUMPED OUT. COLLECTED WATER TO BE PUMPED TO WASTEWATER TREATMENT PLANT OR INTO CONTAINERS AND TRANSPORTED TO WASTEWATER TREATMENT PLANT FOR TREATMENT AND DISPOSAL.
7. SOLIDS ACCUMULATED IN THE SUMP WILL BE EXCAVATED PERIODICALLY AND PLACED ON THE WASTE MATERIAL STOCKPILE.
8. UPON COMPLETION OF THE WORK, THE STOCKPILE AREA SHALL BE REMOVED.
9. ANY DAMAGE TO STOCKPILE AREA MUST BE REPORTED TO THE NYSDEC IMMEDIATELY.

Barton & Loguidice
10 Airline Drive, Suite 200
Albany, NY 12205

ALCO MAXON HOLDINGS, LLC
EVENT CENTER WORK PLAN

ATTACHMENT 2A
STOCKPILE AREA DETAIL

SCHENECTADY — SCHENECTADY COUNTY, NEW YORK

Date	Scale
FEBRUARY 2024	NOT TO SCALE

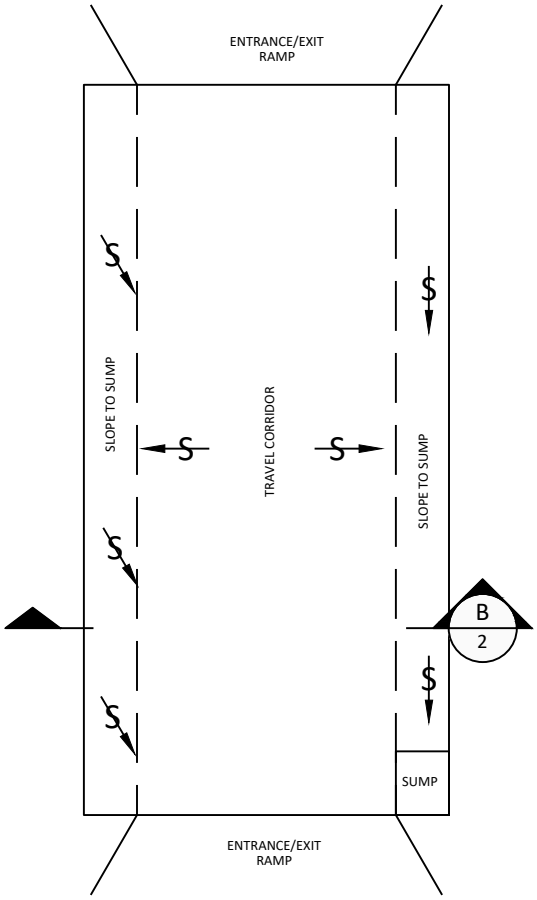
Figure Number: 2A

Project Number: 1368.001

Attachment 2B

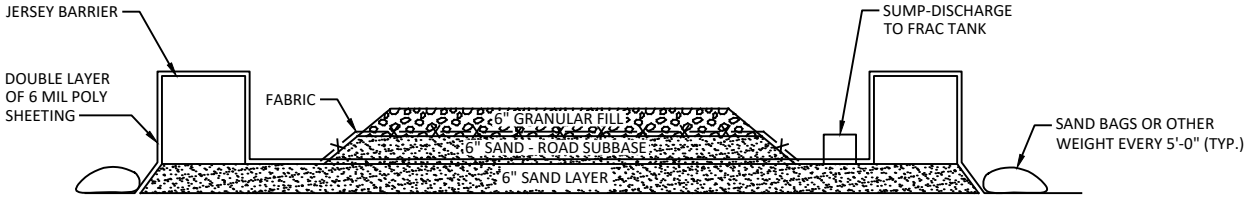
Truck Wash Detail

2 DECONTAMINATION PAD
NOT TO SCALE



NOTE:

CONTRACTOR WILL SIZE DECONTAMINATION PAD SUCH THAT ALL CONSTRUCTION TRAFFIC WILL BE COMPLETELY CONTAINED WITHIN THE DECONTAMINATION PAD DURING DECONTAMINATION ACTIVITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION AND DISPOSAL OF ALL FLUIDS GENERATED DURING DECONTAMINATION. ALL WASH WATER WILL BE CONTAINED WITHIN THE DECONTAMINATION PAD AND PUMPED FROM THE SUMP TO 55 GALLON DRUMS OR FRAC TANK(S) (AS NEEDED). CONTRACTOR IS RESPONSIBLE FOR TESTING OF WATER BEFORE DISPOSAL. CONTAMINATED WATER SHALL BE DISPOSED OF AT A REGISTERED WATER TREATMENT FACILITY.



NOTE:

DECONTAMINATION PAD IS SHOWN FOR SCHEMATIC REPRESENTATION. CONTRACTOR SHALL PROPOSE SIZE AND ARRANGEMENT OF DECONTAMINATION PAD.

B/2 SECTION
NOT TO SCALE

Barton & Loguidice
10 Airline Drive, Suite 200
Albany, NY 12205

ALCO MAXON HOLDINGS, LLC
EVENT CENTER WORK PLAN

ATTACHMENT 2B
TRUCK WASHING AREA DETAIL

SCHENECTADY — SCHENECTADY COUNTY, NEW YORK

Date	Scale
FEBRUARY 2024	NOT TO SCALE

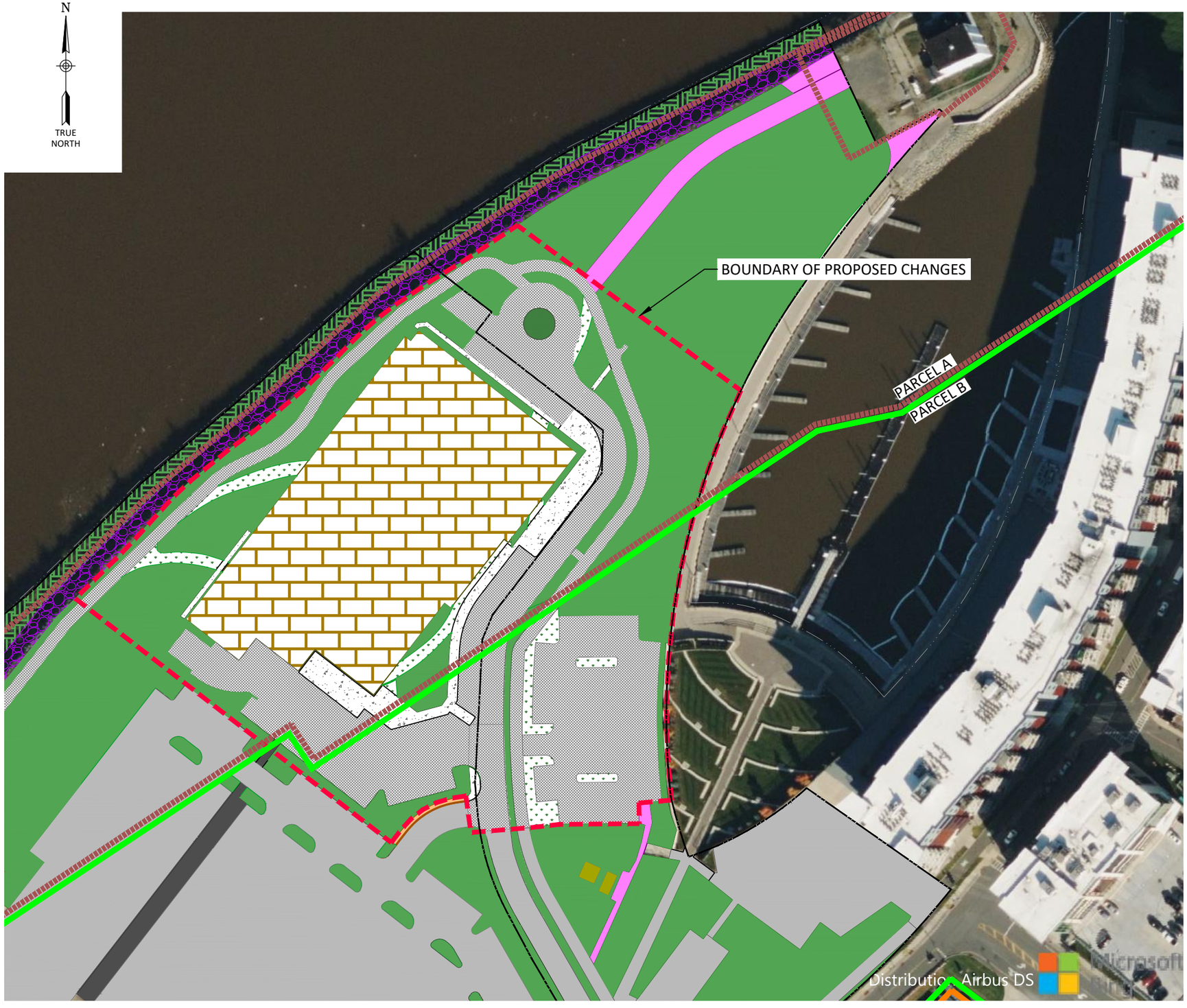
Figure Number: 2B

Project Number: 1368.001

Plotted: Feb 09, 2024 - 10:48AM SYR By: bas
C:\Users\bas\Desktop\Attachment 2B_TRUCKWASHINGDETAIL.dwg

Attachment 3

Proposed Final Cover System Areas



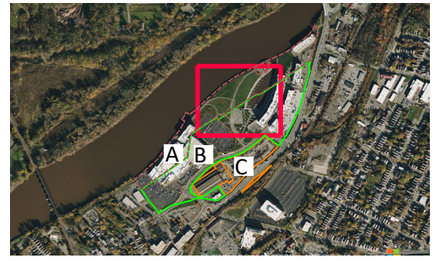
NOTE

PROPOSED EVENT CENTER LAYOUT BASED ON DRAWING ENTITLED "DESIGN DEVELOPMENT: EVENT CENTER" BY LABELLA ASSOCIATES, D.P.C., DATED DECEMBER 1, 2023.

PROPERTY AND PARCEL BOUNDARIES ARE APPROXIMATE.

LEGEND

- EDGE OF WATER
- EVENT CENTER PROPERTY LINE
- EXISTING RIPRAP
- EXISTING VEGETATIVE BENCH
- EXISTING ASPHALT
- EXISTING BUILDING
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING VEGETATED SOIL COVER
- PROPOSED ASPHALT
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED VEGETATED SOIL COVER



KEY PLAN

SCALE: 1" = 1,000'

MAXON ALCO HOLDINGS, LLC
UNION EVENT CENTER
SUPPLEMENTAL WORK PLAN

PROPOSED FINAL COVER SYSTEM AREAS

CITY OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

Barton & Loguidice, D.P.C.
10 Airline Drive
Suite 200
Albany, NY
12205

Date
DECEMBER 2023

Scale
AS SHOWN

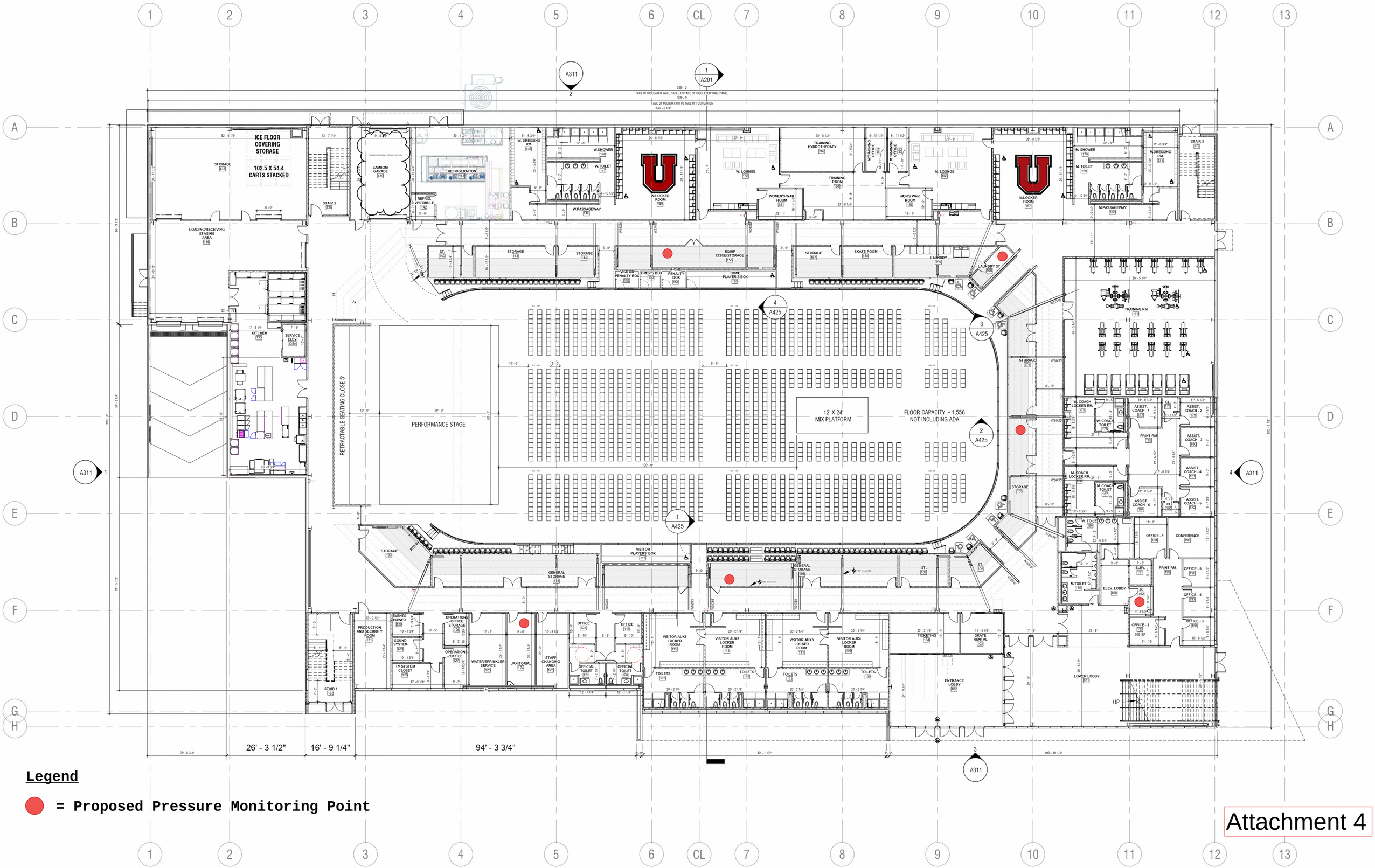
Attachment
3

Project Number
1368.001.009

Plotted: Dec 08, 2023 - 10:30AM SYR By: bgh
Z:\BL-Vault\ID2\18217AD2-1C71-4823-8927-99D5C4054147\0\3016000-3016999\3016641\L\L\1368001 FIG5 Proposed Final Cover System Areas (ID 3016641).dwg

Attachment 4

Proposed Pressure Monitoring Point Locations



Legend

● = Proposed Pressure Monitoring Point

Attachment 4

Attachment 5

Pressure Monitoring Point and Vapor Barrier Detail

SUBMITTAL COVERSHEET

Submit To: Norwood-LeChase
Jamila Glapion
Senior Project Manager
jglapion@norwoodco.com
Engineer: Jeff Wassenaar

Contractor: Rifenburg Contracting Corporation
Submittal #: 42
Submit Date: 2/18/2016

NLC - Rivers Casino & Resort

Spec. Section: Vapor Mitigation System
Sub-Section: Vapor Sample Points
Description: Sample Point Install Detail
Sample Point Cover Product Data
Manufacturer: Zurn

Subcontractor/ Supplier: F.W. Webb Company

Remarks:

Engineer Stamp

☐ APPROVED ☐ REJECTED

☐ APPROVED AS NOTED

☐ REVISE AND RESUBMIT

☐ NO ACTION TAKEN, INFORMATIONAL DATA

Checking is only for conformance with the design concept of the project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site for information that pertains solely to the fabrication processes or to techniques of construction and for the coordination of the work of all trades.

BY: _____

DATE: _____

Rifenburg Contracting Corporation has reviewed and coordinated the information in this submittal with the requirements of the Work and the Contract Documents, and has determined and verified all field measurements & quantities, field construction criteria, materials, catalogue numbers and similar required data.

BY: Timothy D. Mills, Assistant Project Manager DATE: 02/18/16

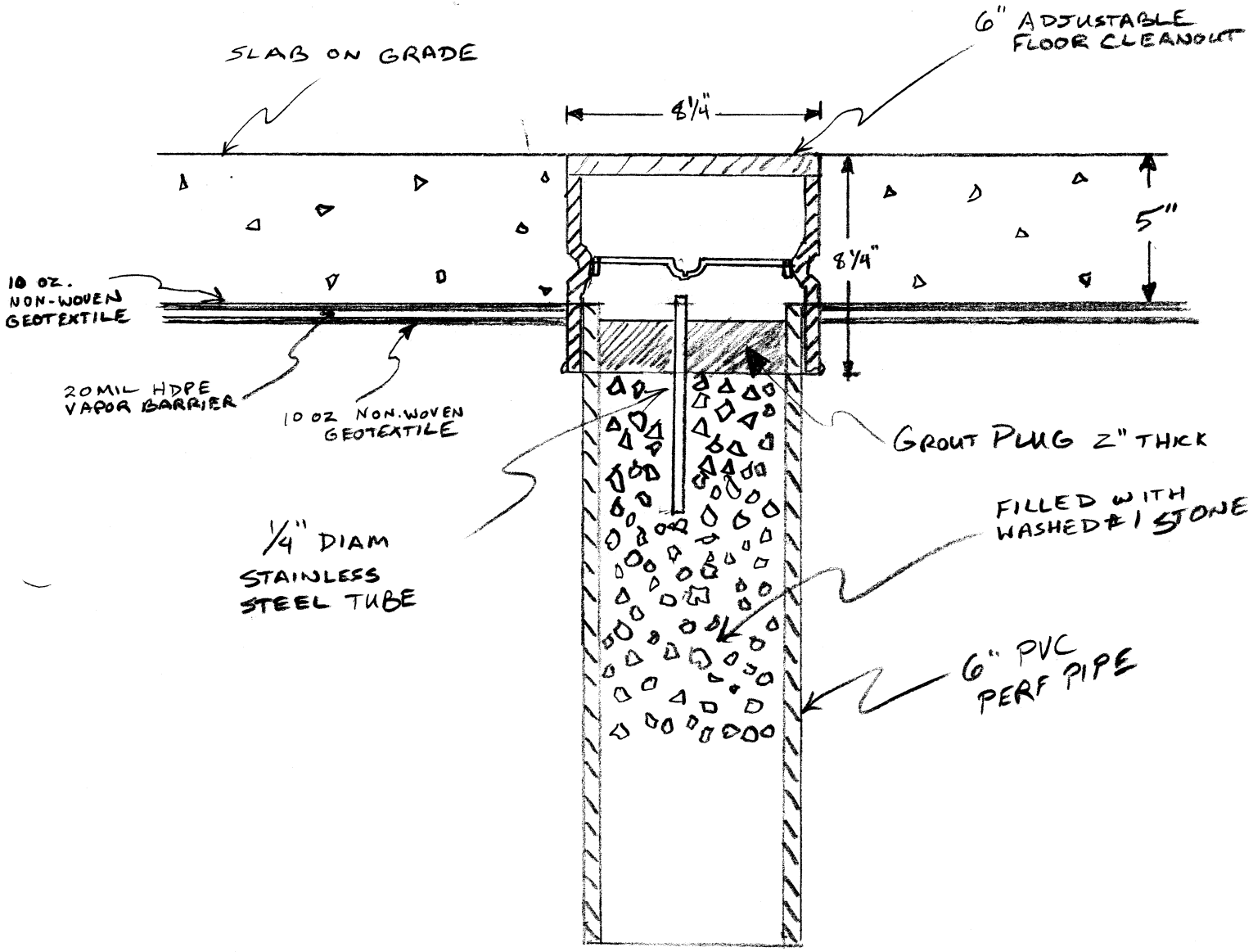
This sheet to be completed and attached to each copy of a submittal

Rifenburg Contracting Corp.

Project RIVERS CASINO
VAPOR MITIGATION - SAMPLING POINTS

~~Estimator~~ Brian Barton

Date 2/17/16



INSTALLATION

1. INSTALL 6" PVC PIPE & CLEANOUT COVER SET TO FFE
2. FILL 6" PVC WITH #1 WASHED STONE
3. INSTALL 1/4" SS TUBING CENTERED IN C.O. ASSEMBLY
4. INSTALL 2" THICK GROUT PLUG
5. PLACE INTERNAL GAS and WATERTITE TAPERED THREAD PLUG
6. LAY VAPOR BARRIER/GEOTEXTILE AND SEAL ASSEMBLY PER PENETRATION DETAIL
7. POUR SLAB ON GRADE
8. ADJUST HEAVY DUTY TOP TO TOP OF SLAB GRADE

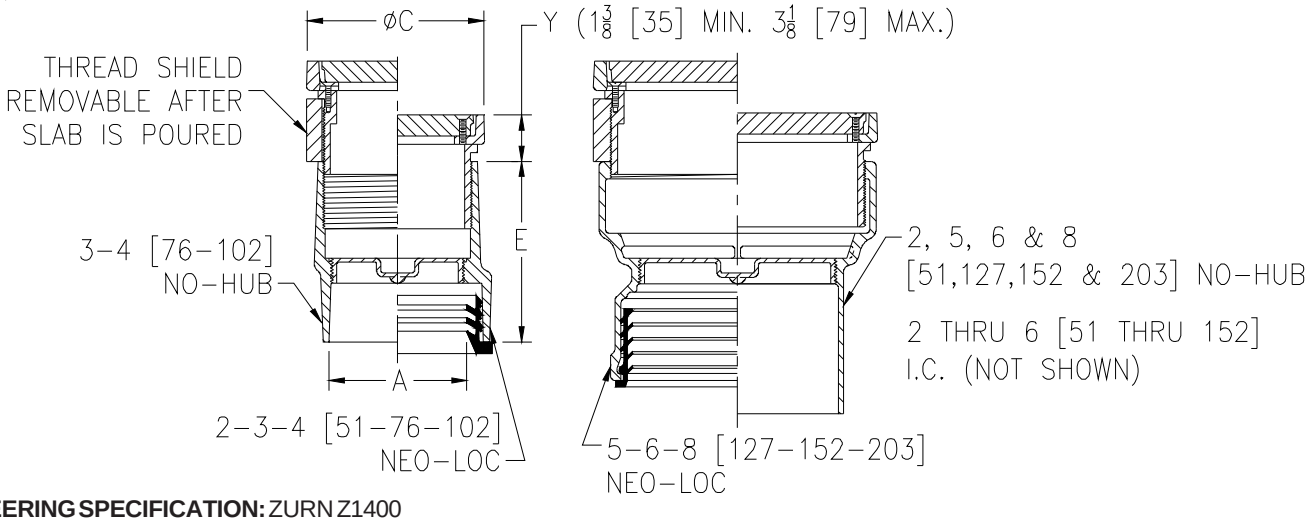
Z1400

EXTRA-HEAVY-DUTY "LEVEL-TROL"
ADJUSTABLE FLOOR CLEANOUT

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



ENGINEERING SPECIFICATION: ZURN Z1400
"Level-Trol" Adjustable floor cleanout, Dura-Coated cast iron body with gas and watertight ABS tapered thread plug and round scoriated cast iron extra-heavy-duty secured top (Specify finish Z, ZB, ZN, ZS) adjustable to finished floor.

A-Pipe Size	Dimension In Inches C	Dimension In Inches E	Approx. Wt. Lbs. [kg.]
Inside Caulk			
2 [51]	6-1/8 [156]	6-7/8 [175]	13.8 [6.3]
3 [76]	6-1/8 [156]	6-7/8 [175]	14 [6.4]
4 [102]	7-1/4 [184]	6-7/8 [175]	18.3 [8.3]
5 [127]	8-1/4 [210]	6-7/8 [175]	22.6 [10.3]
6 [152]	9-1/4 [235]	6-7/8 [175]	32.2 [14.6]
No-Hub			
2 [51]	4-1/8 [105]	4-5/8 [117]	7 [3]
3 [76]	4-1/8 [105]	4-3/4 [121]	7.7 [3.5]
4 [102]	5-1/8 [130]	4-3/4 [121]	10.3 [4.7]
5 [127]	7-1/4 [184]	7-1/2 [191]	17.6 [8]
6 [152]	8-1/4 [210]	4-3/4 [121]	22.2 [10.1]
8 [203]	9-1/4 [235]	7-1/2 [191]	29.9 [13.6]
Neo-Loc			
2 [51]	4-1/8 [105]	4-3/4 [121]	7.9 [3.6]
3 [76]	5-1/8 [130]	4-3/4 [121]	10.6 [4.8]
4 [102]	5-1/8 [130]	4-3/4 [121]	11.9 [5.4]
5 [127]	7-1/4 [184]	6-1/2 [165]	18.7 [8.5]
6 [152]	8-1/4 [210]	5-7/8 [149]	21.9 [9.9]
8 [203]	9-1/4 [235]	6-1/2 [165]	23.5 [10.7]

OPTIONS (Check/specify appropriate options)

PREFIXES

- ✔ Z — Dura Coated Cast Iron*
- _____ ZB — D.C.C.I. w/ Polished Bronze Light-Duty Top (Deduct 1/2 [13] from 'Y' Dim.)
- _____ ZN — D.C.C.I. w/ Polished Nickel Bronze Light-Duty Top (Deduct 1/2 [13] from 'Y' Dim.)
- _____ ZS — D.C.C.I. w/ Polished Stainless Steel Extra-Heavy-Duty Top (Add 3/16 [5] to 'Y' Dim.)

SUFFIXES

- _____ -AR — Acid Resisting Epoxy Coated Finish
- _____ -BP — Bronze Plug
- _____ -CF — Carpet Flange Cover (ZB and ZN only)
- _____ -CM — Carpet Marker
- _____ -DC — Duresist Cover
- _____ -DX — Round ZB or ZN Top with Dex-o-tex Flange (2 thru 4 [51 thru 102] Sizes only)
- _____ -G — Galvanized Cast Iron
- _____ -HD — Extra-Heavy-Duty Veneer Top (Add 1/8 [3] to 'Y' Dim.) (ZB and ZN only)
- _____ -K — Anchor Flange
- _____ -KC — Anchor Flange w/ Clamping Collar
- _____ -PC — Protective Cover
- _____ -SG — Solid Gasketed Cover
- _____ -SM — Special Marking Stamped on Top
- _____ -T — Square Top
- _____ -TC — Neo-Loc Test Cap Gasket (2-4 [51-102] NL Bottom Outlet Only)
- _____ -TX — Square Top Recessed for 1/8 [3] Tile (ZB and ZN only)
- _____ -VP — Vandal-Proof Screws
- _____ -X — Round Top Recessed for 1/8 [3] Tile (ZB or ZN only)
- _____ -Z — Round Top Recessed for 1-1/4 [32] Terrazzo (ZB or ZN only)

PIPE SIZE

2-3-4-5-6 [51-76-102-127-152]
2-3-4-5-6-8 [51-76-102-127-152-203]
2-3-4-5-6-8 [51-76-102-127-152-203]

(Specify size/type) **OUTLET**

- _____ IC Inside Caulk
- _____ NH No-Hub
- ✔ NL Neo-Loc

'E' BODY HT. DIM.

See Chart
See Chart
See Chart

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | **Specification Drainage Operation**
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929

In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292

www.zurn.com

Rev. Q
Date: 06/04/14
C.N. No. 131071
Prod. | Dwg. No. Z1400

Attachment 6

Event Center Construction Drawings
(Separately Provided)

The experience to
listen
The power to
solve℠

Barton & Loguidice

www.bartonandloguidice.com