SR305 Johnson Parkway
Art Plan

OCTOBER 6, 2020

City of Poulsbo

Table of Contents

Signature Page ii

Project Overview 1

Project Ownership 2

Artistic Elements 2

SR305 Johnson Parkway Art Plan Criteria 4

Summary 9

Figures.

Figure 1. Johnson Parkway Noll Corridor South Segment 1

Figure 2. Project Ownership 2

Figure 3. Retaining Wall Location 3

Figure 4. Retaining Wall Artwork - Design By Lisa Stirrett 6

Proposed Art

Attachment 1 - Retaining Wall Dimensional Drawing & Vikings 10

Attachment 2- Viking Shield Drawings 17

Attachment 3 - Coating Specifications 24

Attachment 4 - Roundabout Schematic 34

Signature Page

PUBLIC ART PLAN

SR305 Johnson Parkway Art Plan

Poulsbo, Washington

October 6, 2020

Project Analysis Preparation:

By: Josh Ranes, PE - City of Poulsbo Civil Engineer — Date: 10/6/2020

Public Art Plan Review and Approval:

Matt Rochon, PE – State Bridge and Structures Architect — Matthew J. Rochon 10/08/20

Linda Fretts, Region Landscape Architect — Linda Fretts, Digitally signed by Linda Fretts, Date: 2020.10.08 15:06:54 -07'00'

Dale Severson, PE - Region Development Services — Dale Severson, PE, Digitally signed by Dale Severson, PE, Date: 2020.10.08 09:21:14 -07'00'

Manuel Abarca, PE - Acting Region Traffic Engineer — Manuel Abarca, Digitally signed by Manuel Abarca, Date: 2020.10.12 11:30:31 -07'00'

Bryan Dias, PE - Local Programs Engineer — Bryan Dias 10/16/20

John Wynands, PE - Region Administrator — John Wynands, Digitally signed by John Wynands, Date: 2020.10.16 12:48:19 -07'00'

Project Overview

The Noll Corridor - **SR305/Johnson Parkway Project** is located on the eastern boundary of the City of Poulsbo. The project encompasses the construction of a SR305/Johnson Road roundabout, Non-Motorized tunnel under SR305, shared use path and .7 m0ile of new minor arterial, and a series of small parklets along the new Johnson Parkway as shown in the project area overview below, **Figure 1**.

Figure 1. Johnson Parkway Noll Corridor South Segment

The SR305/Johnson Roundabout improvement is the first in a succession of transportation improvements along the SR305 corridor funded by the 2015 Connecting Washington funding package. This work is in collaboration with WSDOT, Kitsap County, Kitsap Transit, the Suquamish Tribe, the City of Bainbridge, and the City of Poulsbo. The corridor goal is to improve safety and mobility along SR305 from Hostmark Street to the WSDOT Ferry Terminal on Bainbridge Island.

This art plan is prepared in accordance with WSDOT Design Manual, M22-01.18 of December 2019, Chapter 950, Public Art, henceforth referred to as “WSDOT 950.” The city anticipates three artistic elements within WSDOT right of way.

Project Ownership

This project is located within WSDOT Right of Way, City of Poulsbo City limits and Kitsap County Right of Way. **Figure 2**, directly below, indicates the ownerships. The art plan is required for elements within the WSDOT ownership and visibility.

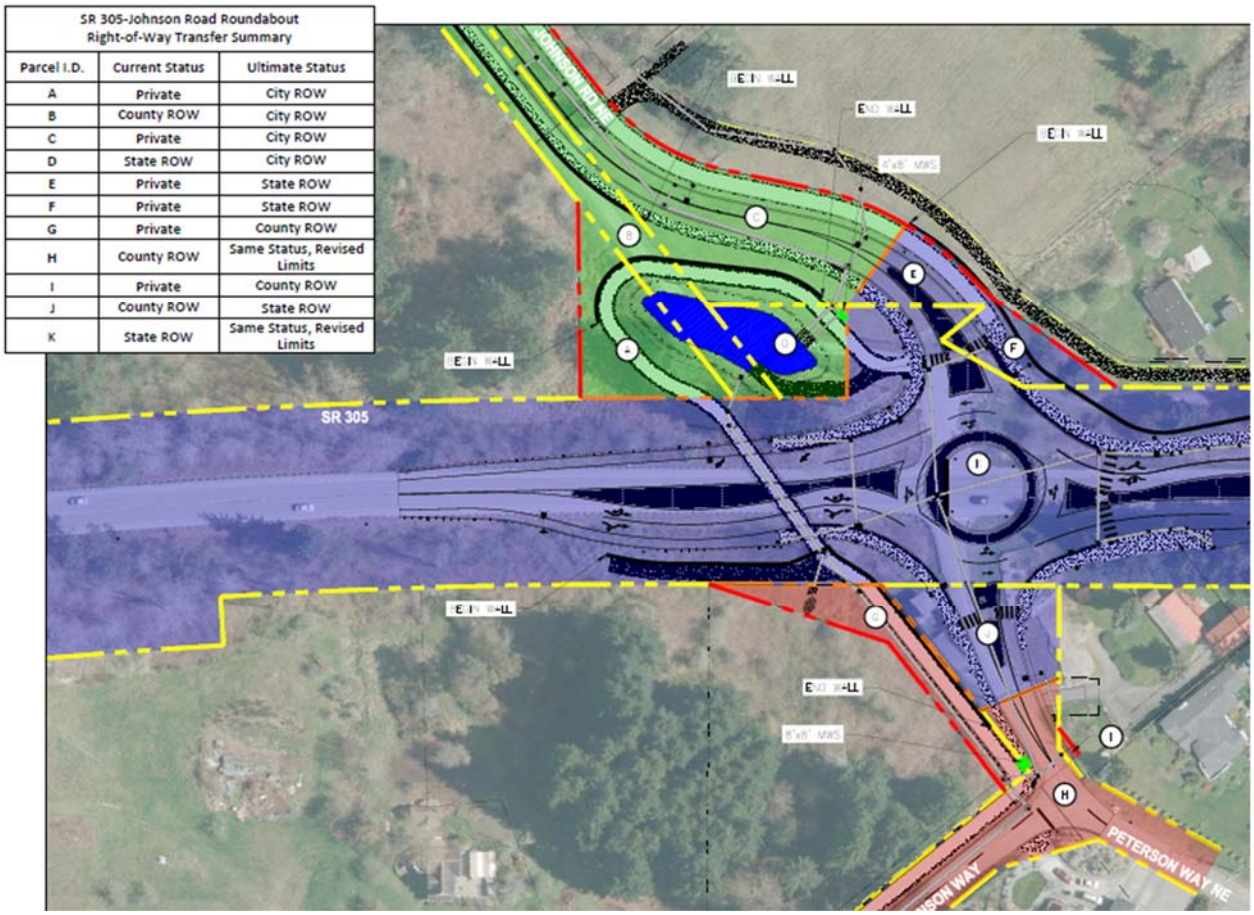


Figure 2. Project Ownership

Artistic Elements

1. **Retaining Wall**
   On the northern side of the Roundabout, the project includes a retaining wall with dimensional requirements of 500 feet in length and up to 15 feet in height. **Figure 3** shows the location of the retaining wall. The intent is to provide artwork on the face of the wall, as depicted in **Figure 4.**

Artistic Elements (Continued)

2. **Roundabout Center Island**
   The center of the roundabout will include an art feature that is consistent with a Nordic and maritime theme. The center island will also welcome visitors to Poulsbo, since this roundabout is located at the southern entrance to the city.

The roundabout center island will include artwork, "Welcome to Poulsbo" signage, and landscaping. The design for the center island will be included in a future art plan after proposals are received for the commissioned artwork. The City will maintain illumination, and will irrigate and maintain center landscaping via a WSDOT-prepared maintenance agreement titled "GMB 1163 SR 305 Johnson Road Roundabout Maintenance Agreement," henceforth referred to as "GMB 1163." See ***Attachment 4*** *– Roundabout Schematic.*

3. **Accent Area 1**
   The City of Poulsbo will own and maintain Accent Area 1, while WSDOT will own the non-motorized tunnel. The City, via GMB 1163, will agree to provide routine maintenance, including but not limited to graffiti and other cleaning, and illumination maintenance and repair of the tunnel as specified in GMB 1163. The tunnel walls will be finished in WSDOT-standard form liner concrete, in either Cascadian or Ashlar stone.

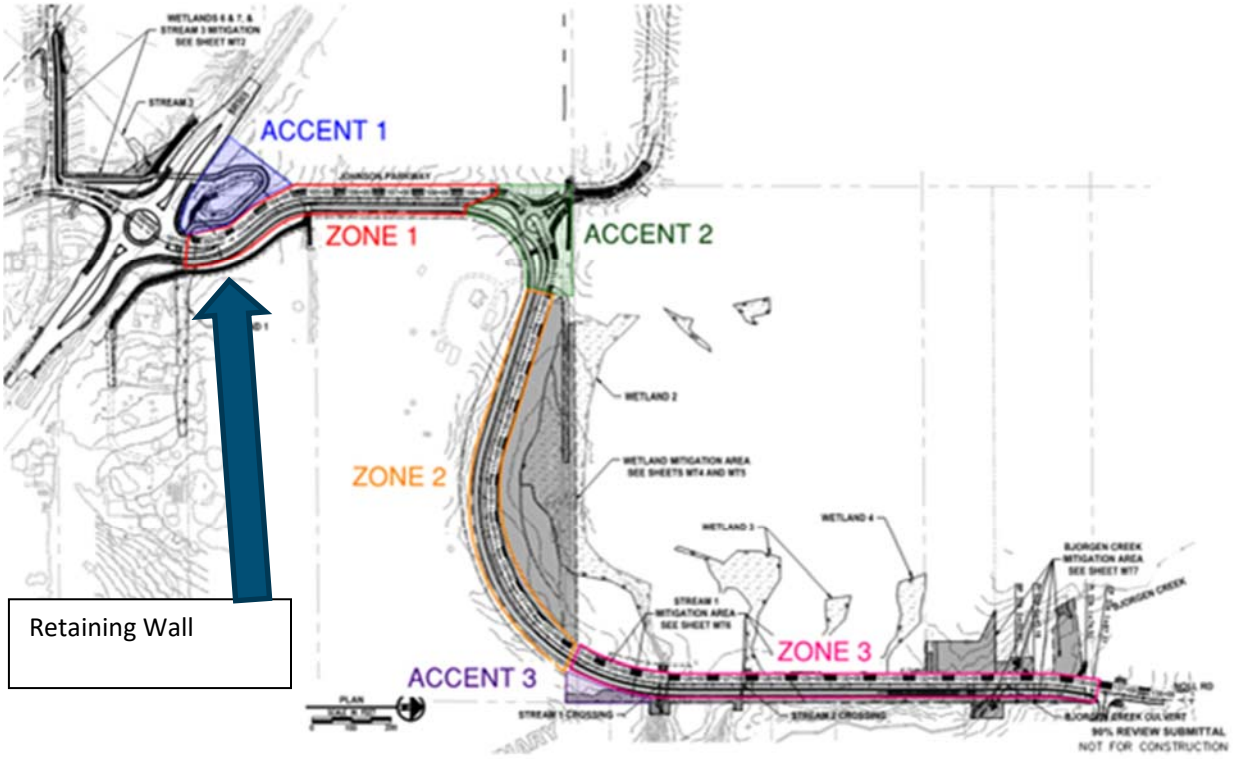


Figure 3. Retaining Wall Location

SR305 Johnson Parkway Art Plan Criteria

In accordance with WSDOT 950.04, the following criteria are to be addressed and documented in the public art plan:

1. **The public art proponent, the funding source, and those responsible for the installation and maintenance of the proposed art.**

   The City of Poulsbo is the project proponent and will fund the retaining wall art installation. The wall artwork design (shown below in **Figure 4**) will be utilized to create a template for the concrete wall forms. The design will be cast into the concrete except for the shields which will be mounted onto the wall and will include back-lighting. The City of Poulsbo Public Works Department will be responsible for the maintenance of the proposed artwork.

2. **Safe maintenance access.**

   Parking for maintenance vehicles will be available near the stormwater pond. The landscape design is created to be relatively low maintenance and the art will not require more than the occasional clean up.

3. **Maintenance Agreement with local agencies for maintenance where appropriate. If there is a potential for vandalism, address this issue in the associated maintenance agreement.**

   The WSDOT – City of Poulsbo GMB 1163 Maintenance Agreement is currently being finalized by WSDOT. City of Poulsbo Public Works Department will be responsible for maintenance of the proposed artwork as specified in GMB 1163.

4. **The public art resulted from the specific recommendation(s) of a planning-level study.**

   In order to ensure availability of public input, we put together a Public Art and Landscape Committee (PAL). The committee was compromised of local artists, city residents, engineering consultants, council members and city staff, as noted below.

SR305 Johnson Parkway Art Plan Criteria (Continued)

Public Art and Landscape Committee (PAL):

Local Artists	Carrie Goller (paint/acrylic artist), Lisa Stirrett (glass artist), Jeff Bouma (landscape architect)
City Residents	Bill Austin (designed and constructed City Cemetery), Erik Gonzalez
Engineering Consultants	Parametrix: Dan McReynolds, Jens Swenson, Jason Ceralde
Council Members	Becky Erickson (Mayor), Kenneth Thomas (Council), David Musgrove (Council)
City Staff	Karla Boughton (Planning Director), Diane Lenius (City Engineer), Joshua Ranes (City Engineer), April Zieman (Senior Contract Administrator), Kevin McFarland (City Arborist)

The PAL Committee established the following theme for the SR305 Johnson Parkway Art and Landscape Plan:

> "The SR305/Johnson Parkway Roundabout Project welcomes residents and visitors to the City of Poulsbo. The chosen artwork and landscape elements will reflect Poulsbo's eclectic character and community charm, its spectacular location with views of Liberty Bay and the Olympic Mountains, and honor Poulsbo's Nordic roots and maritime heritage. As an important gateway, the landscaping and artwork chosen for the SR305/Johnson Parkway Roundabout Project reveals Poulsbo's spirit, as a growing city that at its heart, is still the small fishing village on the bay."

5. **Subject of the recommended art.**

   The retaining wall will feature three Viking figures. Outlined above the figures are the Brothers Peaks (visible from the roadway), with three shields mounted on the wall. The Vikings and shields are ornately depicted with a Viking boat and scroll work. See **Figure 4**.

SR305 Johnson Parkway Art Plan Criteria (Continued)

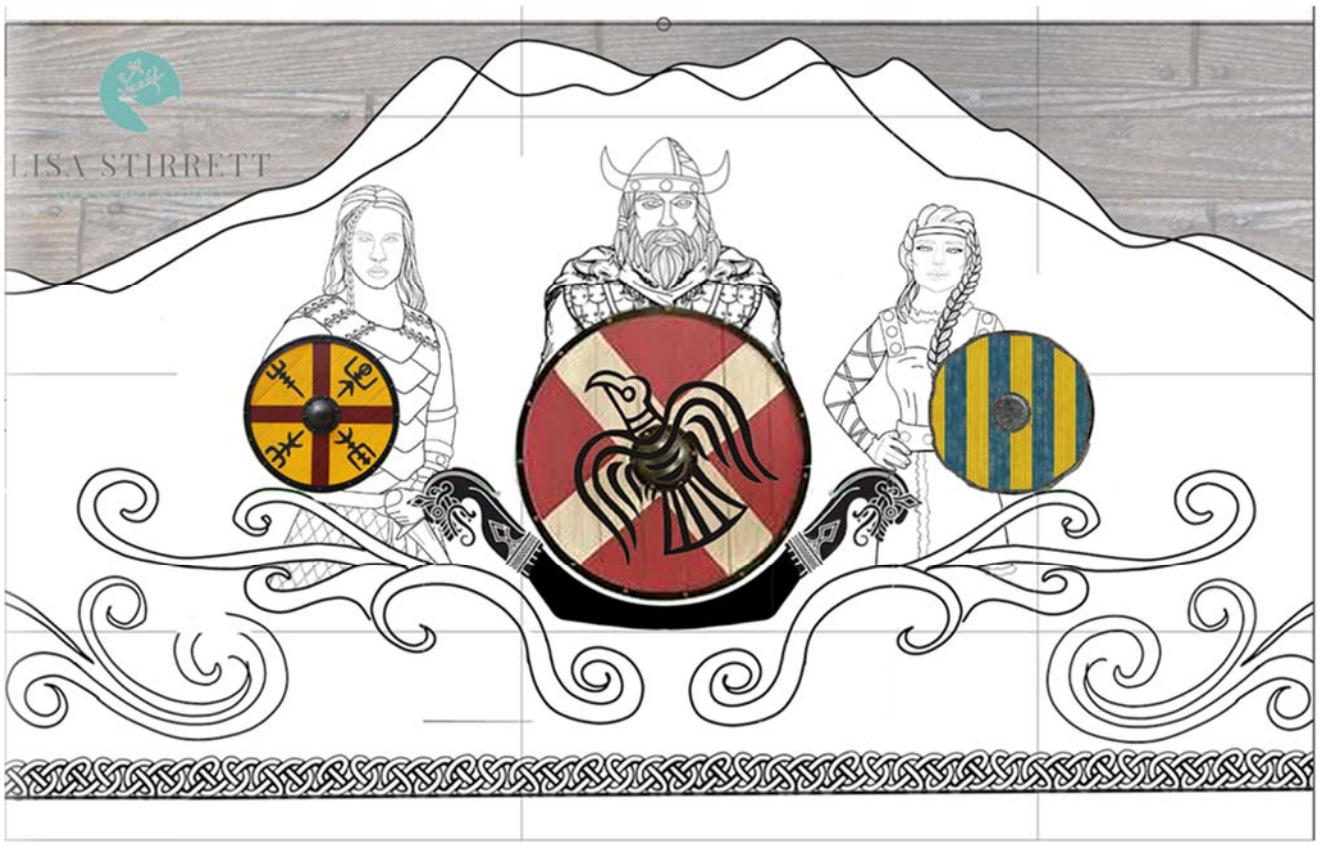


Figure 4. Retaining Wall Artwork - Design By Lisa Stirrett

6. **Visibility: Art visible from the main line must contribute to corridor continuity and the view from the road. Art visible to the community or adjacent to the neighborhood side of a structure may have more flexibility in design than that visible from the main line.**

   The Vikings will be visible from the road (main line). They will not block the view of the Olympics and Liberty Bay. Maintaining the view and surrounding landscape is imperative to the PAL Committee.

7. **Safety and security: Public art must not negatively impact safety nor create an attractive nuisance.**

   The retaining wall will be on display for the motorists along Johnson Parkway and pedestrians along the shared use path. It is not intended to be a feature that is

SR305 Johnson Parkway Art Plan Criteria (Continued)

interactive or create a safety hazard. It is anticipated that the art be flush with the wall or have slight indentation (like a stamp). The mounted shields will not protrude more than 12 inches from the surface of the wall. The glass will be treated with a coating to be fracture resistant.

8. **Potential for traffic distraction: Proposed art must not distract motorists. It must be appropriate for the speed and angle at which it will be viewed.**

The design of the Vikings and shields will have main features with clear lines to minimize distracting details for motorists. The shields will be made from glass or metal with a matte finish to avoid potential hazards in reflection. The details of the work will be visible to the pedestrian traffic and larger image will be visible to the traffic on Johnson Parkway and SR305.

9. **Scale and context: The public art plan should address the scale of the proposed work and its fit within the surrounding landscape and land use.**

The retaining wall follows the contour of the road and provides a support structure for the adjacent hill. The wall height varies, with a maximum of 15 feet. The artwork height is consistent with the height of the wall as shown in **Attachment 1**.

10. **Contribution of the art to community character.**

The Poulsbo Comprehensive Plan, Chapter 3, Community Character, provides a design framework for new development and construction and is meant to address the goals of retaining Poulsbo's distinct character and creating gathering places and cultural opportunities. While not referenced by name, the Johnson Parkway Project is the quintessential harbor for community art. Policy CC-2.1 identifies and supports considered streets as gateways to all key entry points into the city and encourages emphasis of these points with distinctive design elements such as symbolic markers, signage, monuments, landscaping or other design features. The planned art upholds these regulations by maintaining the Nordic cultural aesthetic and enhancing the gateway streets with artistic features.

SR305 Johnson Parkway Art Plan Criteria (Continued)

11. Impact of the proposed art on social, cultural, and environmental features: In general, WSDOT would not approve the addition of art on a historic structure or within an ecologically sensitive area.

The SR305 Johnson Parkway Project has already undergone SEPA determination and great efforts were made to sustain current/potential ecologically sensitive areas. The art on the retaining wall will be within the acceptable design criteria. The City has addressed all historical and cultural concerns through the use of on- call consultants and the PALS Committee. We do not anticipate the art interfering with or igniting any historical or ecological concerns.

12. Compliance with applicable laws, such as the Scenic Vistas Act and 23 CFR 752, Landscape and Roadside Development.

Not applicable.

13. Compliance with the Traffic Manual and the Roadside Policy Manual:

The retaining wall and artwork are adjacent to the roadway and are located behind the shared use path and a planter strip. The artwork is in compliance with both the Traffic Manual and the Roadside Policy Manual.

14. Demonstrated responsible use of tax dollars and enhanced public trust in WSDOT Judgement

The SR305 Johnson Parkway Project is safety and mobility project that is partially funded by the Connecting Washington funds. The art contributes to a welcoming entrance to the City of Poulsbo and encourages community engagement and development. The artwork for the project will not exceed 1% of the construction costs.

Summary

The SR305 Johnson Parkway Project Art Plan has been prepared in accordance with *WSDOT 950.04 Public Art* criteria, as presented. The project will be advertised in Spring of 2020. Construction is anticipated to begin in Summer/Fall of 2020 and work will continue through 2021. The city seeks approval and comment at your earliest convenience.

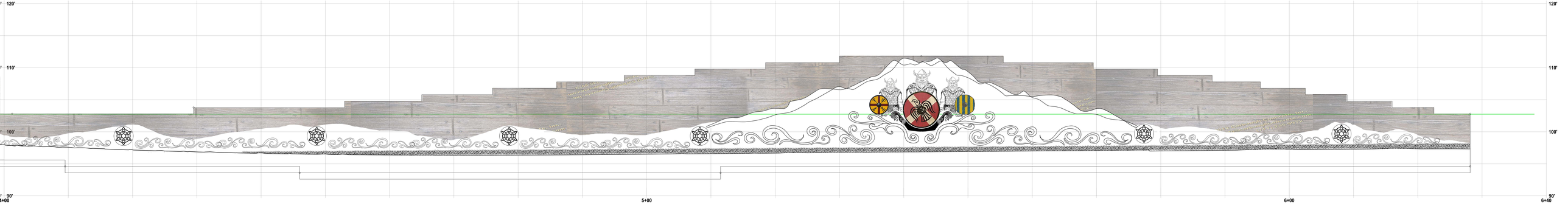
Thank you!

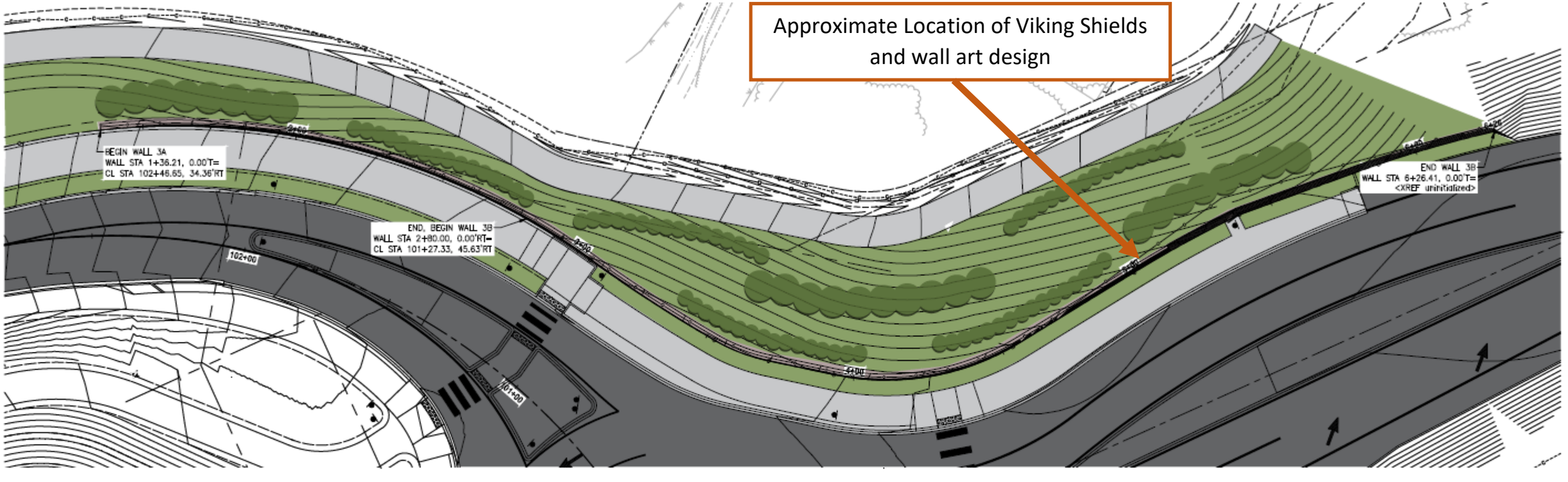
Artwork Details

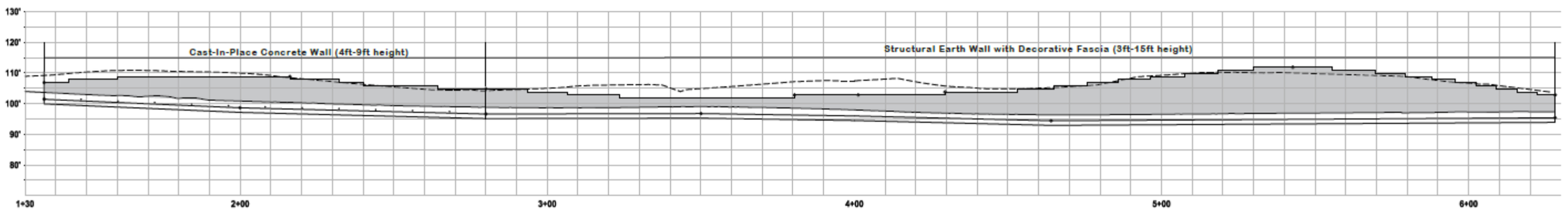
Attachment 1 - Retaining Wall Dimensional Drawing & Vikings

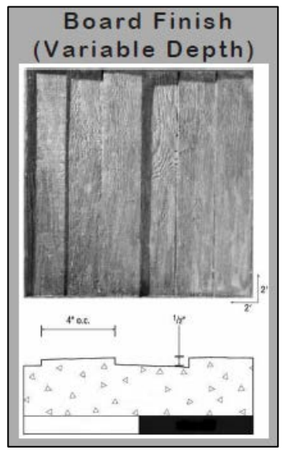
LISA STIRRETT

GLASS ART STUDIO

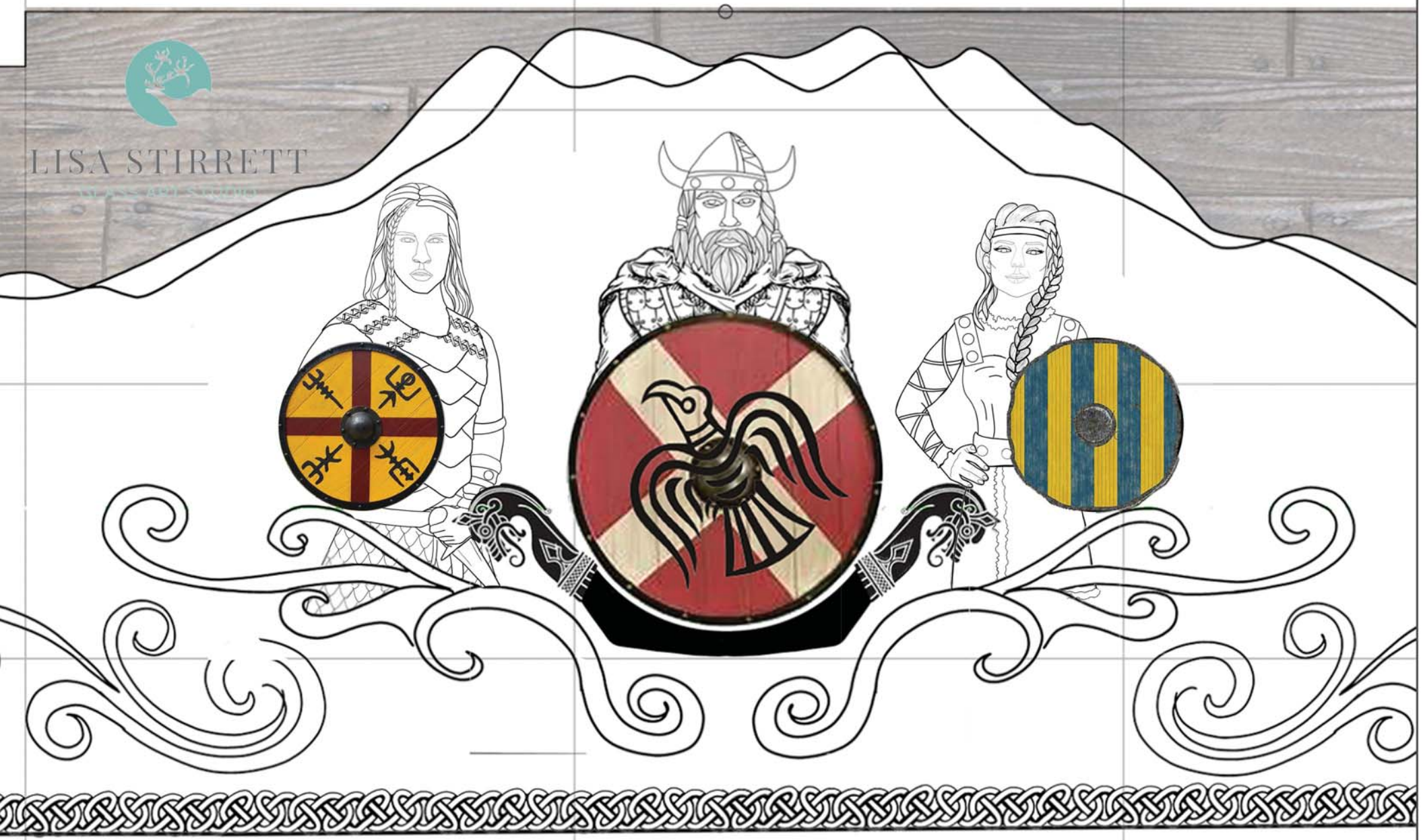


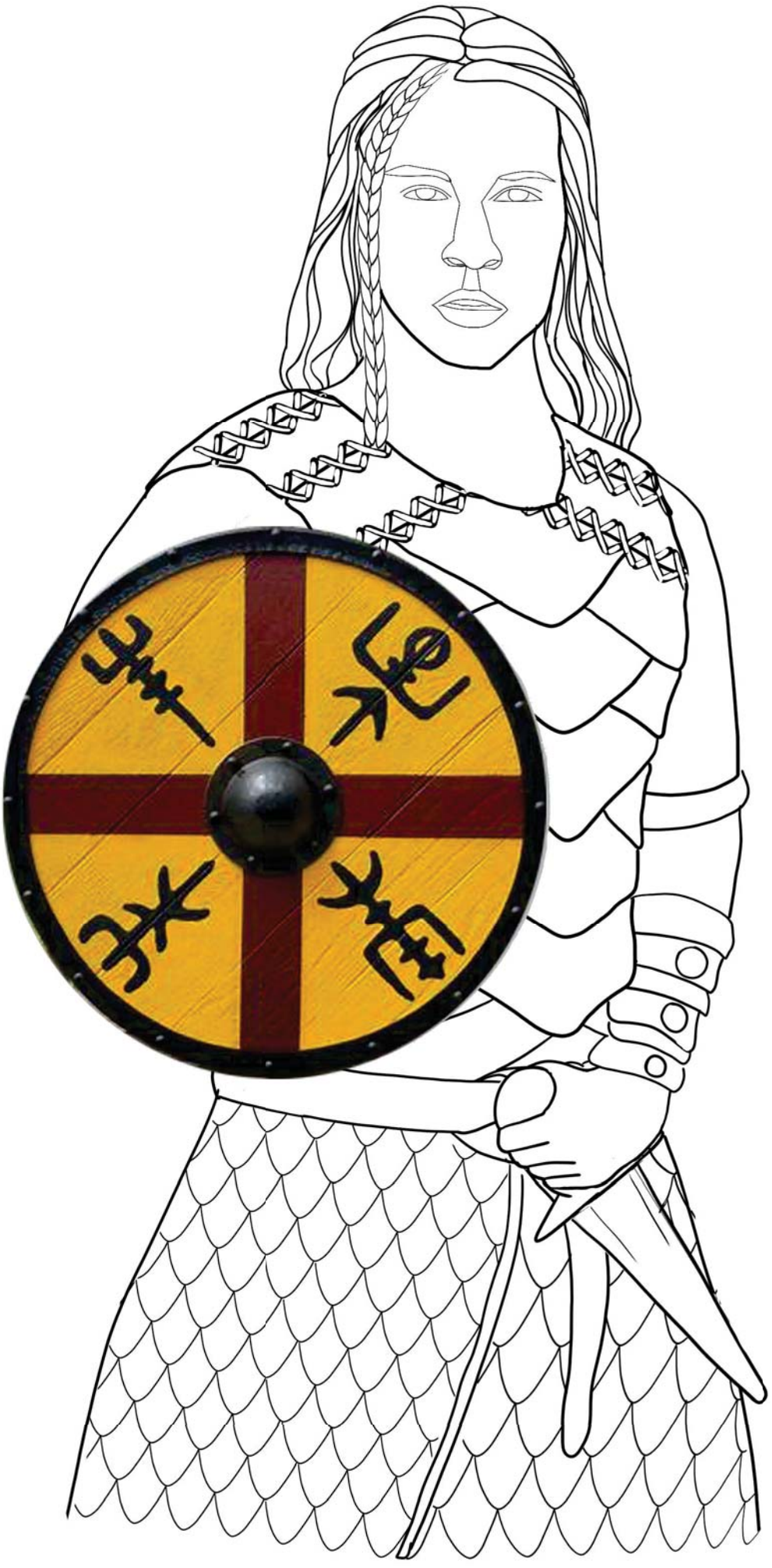

Approximate Location of Viking Shields and wall art design
BEGIN WALL 3A
WALL STA 1+36.21, 0.00'T=
CL STA 102+46.65, 34.36'RT
END, BEGIN WALL 3B
WALL STA 2+80.00, 0.00'RT=
CL STA 101+27.33, 45.63'RT
END WALL 3B
WALL STA 6+26.41, 0.00'T=
<XREF uninitialized>
102+00
101+00


Cast-In-Place Concrete Wall (4ft-9ft height)
Structural Earth Wall with Decorative Fascia (3ft-15ft height)
130'
120'
110'
100'
90'
80'
1+30
2+00
3+00
4+00
5+00
6+00


Board Finish
(Variable Depth)
4" o.c.
½"
2"
2"

LISA STIRRETT





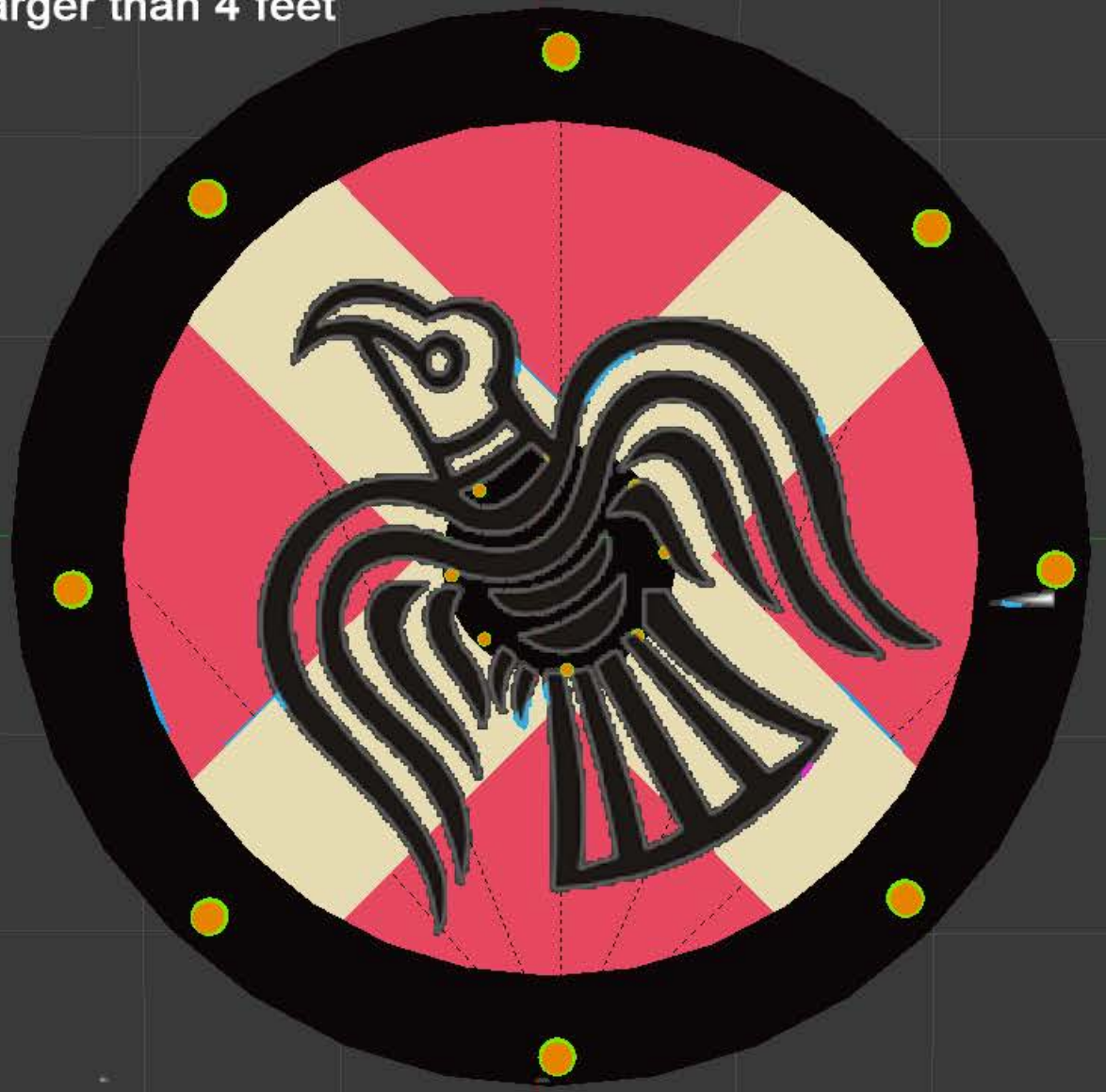
Proposed Art (Continued)

Attachment 2- Viking Shield Drawings

User Persp

Retaining Wall Art Components - Conceptual Ornamental Viking Shields

Schematics for Shields larger than 4 feet
Front View



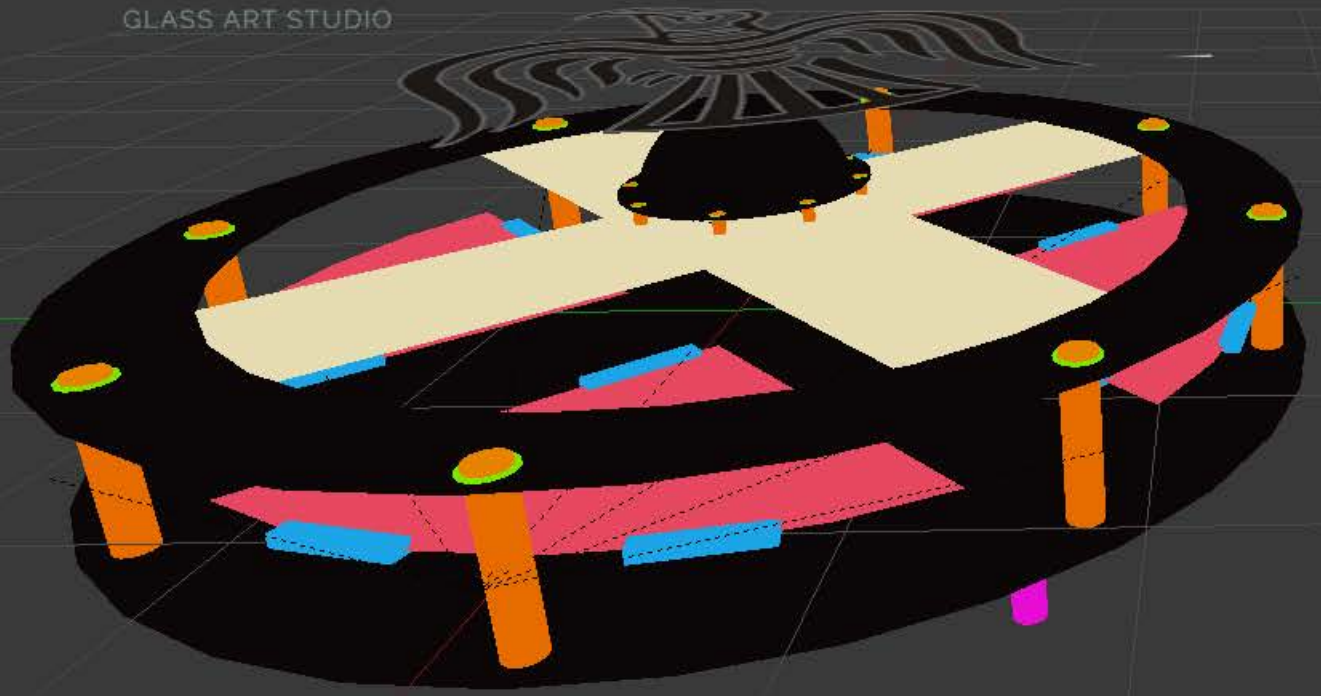
LISA STIRRETT
GLASS ART STUDIO

(1) Icosphere

Retaining Wall Art Components - Conceptual
Ornamental Viking Shields

Schematics for Shields larger than 4 feet
Side View of layers 1, 2 and 3

LISA STIRRETT
GLASS ART STUDIO



(1) Icosphere

Construction consists of 3 layers Dimension from wall aproximatley 4 inches.

Layer 1 - Built with 1/8" 304 #4, non-coated stainless steel. The shield shaped base will be tied into the concrete block wall with stainless steel wall anchors.

Layer 2 - The fused glass is attached by sitting into brackets that have been pre-welded onto the base. Top holding brackets to be installed on site. Glass will be clear coated on the backside to keep the glass intact in-case of breakage.Tech sheets attached.
All element in the glass are fired to retain full color. The finished fused glass pieces will be 1/2" thick.

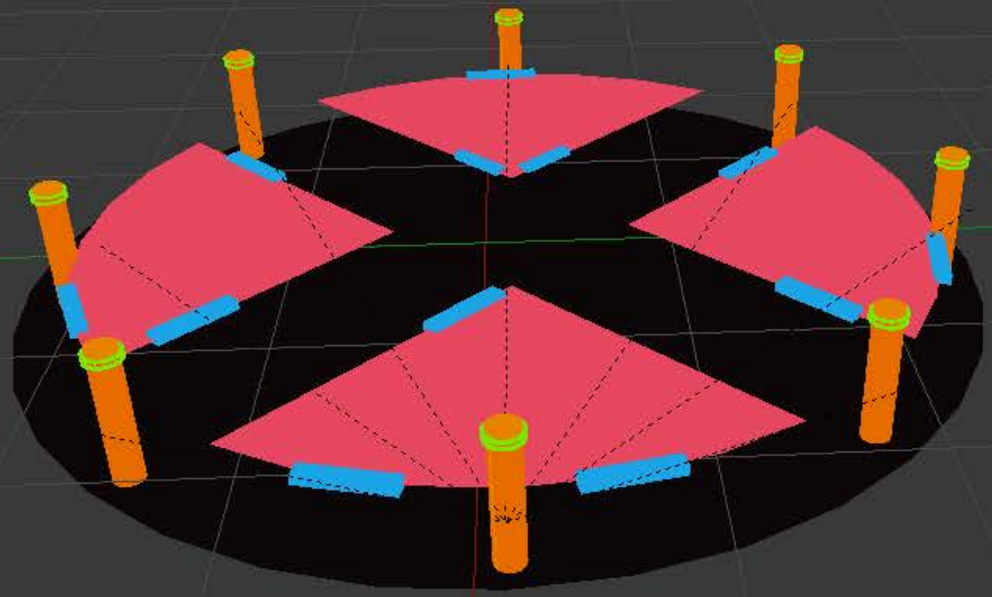
Layer 3 - Is a stainless steel shield shaped top cap that fully frames the glass. It also includes welded cross and raven details. This topcap is built with 1/8" 304 #2B stainless steel and will be sandblasted, primed, and painted with specialty paint. Tech sheets attached. Layer 3 is attached to Layer 1 with pre-welded threaded pegs that are finished with stainless steel acorn nuts.

User Persp

Retaining Wall Art Components - Conceptual Ornamental Viking Shields

Schematics for Shields larger than 4 feet
Layer 1 and 2 Shown

LISA STIRRETT
GLASS ART STUDIO



(1) Sphere

User Persp

Retaining Wall Art Components - Conceptual Ornamental Viking Shields

LISA STIRRETT
GLASS ART STUDIO

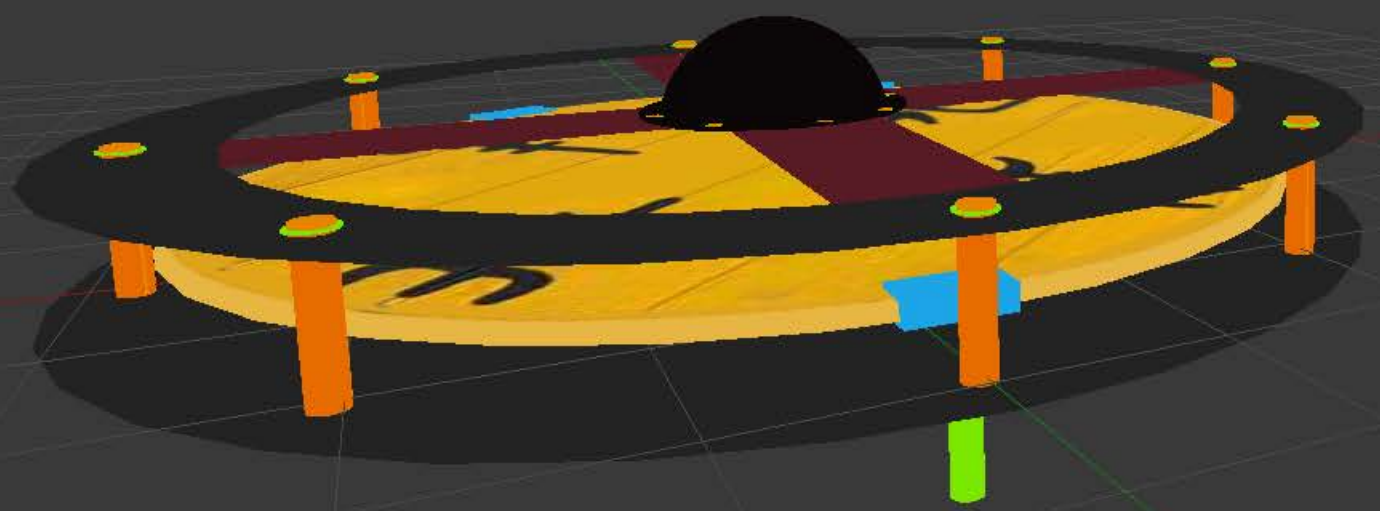
Schematics for Shields smaller than 4 feet
Front View

(1) Icosphere.001

Retaining Wall Art Components - Conceptual Ornamental Viking Shields

Schematics for Shields smaller than 4 feet
Side View of layers 1, 2 and 3

LISA STIRRETT
GLASS ART STUDIO



Construction consists of 3 layers Dimension from wall aproximatley 4 inches.

Layer 1 - Built with 1/8” 304 #4, non-coated stainless steel. The shield shaped base will be connected to the concrete wall with stainless steel wall anchors.

Layer 2 - The fused glass is attached by sitting into brackets that have been pre-welded onto the base. Top holding brackets to be installed on site. Glass will be clear coated on the backside to keep the glass intact in-case of breakage. Tech sheets attached. All elements in the glass are fired to retain full color. The finished fused glass pieces will be 1/2” thick.

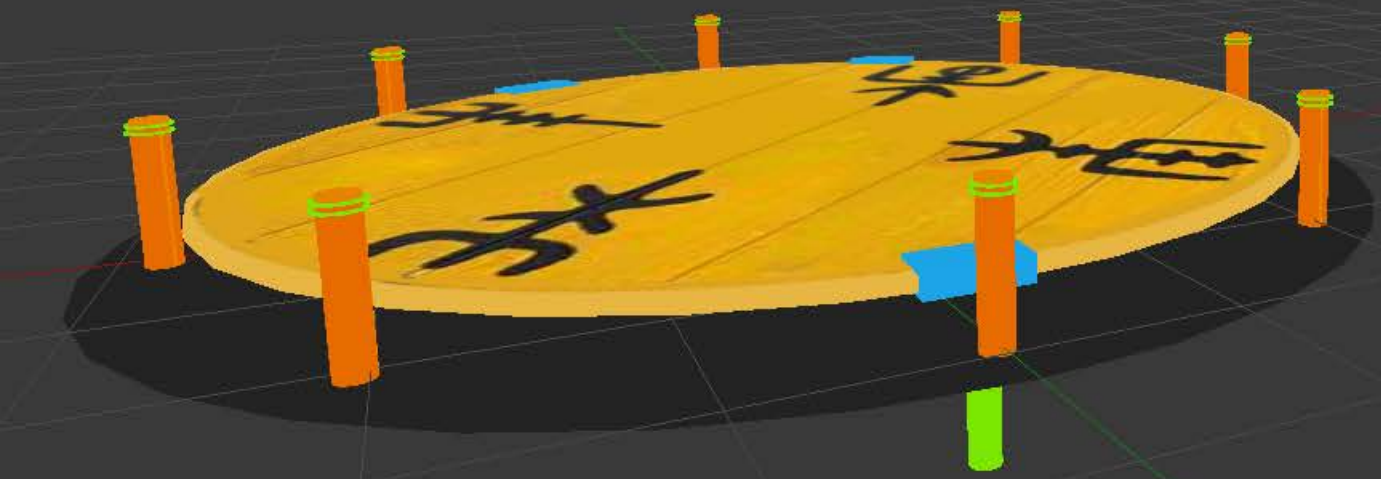
Layer 3 - Is a stainless steel shield shaped top cap that fully frames the glass. It also includes welded details such as the cross and metal boss. This topcap is built with 1/8” 304 #2B stainless steel and will be sandblasted, primed, and painted with specialty paint. Tech sheets attached. Layer 3 is attached to Layer 1 with pre-welded threaded pegs that are finished with stainless steel acorn nuts.

User Persp

Retaining Wall Art Components - Conceptual Ornamental Viking Shields

Schematics for Shields smaller than 4 feet
Layer 1 and 2 Shown

LISA STIRRETT
GLASS ART STUDIO



(1) Icosphere.001

Proposed Art (Continued)

Attachment 3 - Coating Specifications

WC-595 A/B

WATER CLEAR 90 SHORE A POLYURETHANE ELASTOMER

RoHS

WC-595 A/B is a two-part, clear, 90 Shore A polyurethane elastomer. It is recommended for use wherever a tough, flexible, permanently transparent elastomer is required. It is UV light and oxidation resistant and can be easily tinted or pigmented to clean bright colors. WC-595 A/B does not contain MOCA, MDA or TDI. In addition to being an excellent castable product, it also functions well as an adhesive for bonding various substrates.

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Hardness, Shore A	ASTM D2240	90 ± 5
Density (g/cc)	ASTM D792	1.03
Cubic Inches per Pound	N/A	26.4
Color/Appearance	Visual	Colorless/Clear
Tensile Strength (psi)	ASTM D412	4,000
Elongation (%)	ASTM D412	180
Tear Strength (pli)	ASTM D624	375
Shrinkage (in/in) linear	ASTM D2566	0.005

Note: Reported physical properties are based on test specimens cured at an elevated temperature, 160ºF (71°C.)

HANDLING PROPERTIES	Part A	Part B
Mix Ratio by weight	100	90
Mix Ratio by volume	100	93
Specific Gravity @ 77°F (25°C)	1.07	1.03
Color	Colorless	Colorless
Viscosity (cps) @ 77°F (25°C) Brookfield	2,400	350
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	900	
Work Time, 100g mass @ 77°F (25°C)	15 minutes	
Gel Time	20 minutes	
Demold Time @ 77°F (25°C)	6 hours, ¼" thick; 4 hours in larger mass	

Properties above are typical and not for specifications.

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at 77ºF (25ºC). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77ºF (25ºC) followed by 16 hours at 160 ºF (71). Do not exceed curing temperatures of 200ºF (93ºC). If you are using heat to accelerate the demold time, allow the part to cool down to ambient temperature before demolding.

Keep in mind the work time and demold time specified on this Data Sheet is based on a 100 gram mass and a cast part at 1/8" thickness. Cure time will be longer when applied as a thin coating on surfaces like glass. We recommend warming up the parts to approximately 90°F (32°C) to help aid the cure in such a thin section.

NOTE:

The cure will be inhibited if cast against a tin catalyzed silicone RTV.

STORAGE:

Store at ambient temperatures, 65-80ºF (18-27ºC). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Quart Kits	2 lbs.	1.8 lbs.	100
Gallon Kits	8 lbs.	7.2 lbs.	401
5-Gallon Kits	40 lbs.	36 lbs.	2,006
55-Gallon Drum Kits	400 lbs.	360 lbs.	20,064

SAFETY PRECAUTIONS:

Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product. Use in well-ventilated areas. Avoid breathing vapors. If exposures cannot be kept at a minimum, a respirator may be necessary in addition to ventilation. The use of a positive pressure air supplied respirator is mandatory when airborne isocyanate concentrations are "not known" or exceeds OSHA'S TWA of 0.005 ppm. Air purifying, organic cartridge type respirators are not generally recommended to use when handling this material without implementation of an end of life service program. Observe OSHA regulations for respirator use (29 CFR 1910.134). Employers are responsible for selecting the correct respirator for each situation.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin.Seek qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.

⚠**WARNING:** This product can expose you to chemicals including Ethylbenzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Handling Guide

WC-595 Part A SDS

WC-595 Part B SDS

For more information call BJB Enterprises, Inc. (714) 734-8450 Fax (714) 734-8929

NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."

ClovaPrime: 2.8 Epoxy Primer
83021

Description

Clovaprime 21 is a heavy duty, high performance polyamide epoxy primer with a long pot life that provides excellent corrosion resistance over both properly and marginally prepared steel. This rust inhibitive epoxy primer provides excellent weathering and chemical resistance as well as staying flexible even as it ages. Clovaprime 21 has a 6 month overcoat window and should be used wherever a long recoat is needed. Outstanding adhesion and application characteristics make Clovaprime 21 a great option for most substrates and projects that require an epoxy primer.

Coating Properties

Coating Category	Epoxy Primer
Mix Ratio	4:1
Pot Life @ 50% RH, 25°C (77°F)	8 hours
Induction Time	15 minutes at 25°C (77°F). Colder paint temperatures will require longer induction times.
Gloss	Low Gloss finish
In-service Temperature Limits **Continuous:** **Intermittent:**	 93°C (200°F) 120°C (250°F)
Product VOC (g/L)	<340 Mixed

Coverage Information

Volume Solids	56% May vary by base/color
Theoretical Coverage	892 ft^2/gal (21.9 M^2/L) @ 1 mil (25 microns) DFT These coverage rates are based on 100% transfer efficiency
Recommended Film Thickness	Wet: 4.0 - 5.0 mils (100 - 125 microns) Dry: 2.0 - 3.0 mils (50 - 75 microns)
Applied Coverage	*Actual coverage will vary depending on substrate and application method. Please contact your Cloverdale Industrial Representative for specific project recommendations*

Approvals / Certifications

AWWA D102 - OCS 2, 6

Benefits

Chemical Resistant
Corrosion Resistant
VOC Compliant
Good Flexibility on Aging
Rust Inhibitive
Excellent Weathering

Markets / End-Uses

Bridges
Farm Machinery
Plant Maintenance
Process Equipment
Pulp & Paper
Storage Tank Exteriors
Structural Steel

Bases

83021A	Grey
83021B	Catalyst
83023A	Red Oxide

Part B Products

83021B

Substrates and Surface Preparation

All surfaces must be clean, dry and free from loose mill scale, weld spatter, oils, grease, wax, dust or any other foreign contaminant affecting adhesion.

Minimum preparation as follows:

Ferrous: SSPC-SP 2/3 Hand/Power Tool Clean. SSPC-SP 6 Commercial Blast preferred.

Non-Ferrous: SSPC-SP 2/3 Hand/Power Tool Clean. SSPC-SP 16 Brush Off Blast preferred.

Galvanized: SSPC-SP 2/3 Hand/Power Tool Clean. SSPC-SP 16 Brush Off Blast preferred.

System Recommendations

SSPC-SP 16 SWEEP BLAST 1.0 MIL Profile

Contact your Cloverdale Technical Representative for system recommendations.

Mixing Instructions

Part A to Part B

- Stir Part A and Part B separately.
- Slowly pour Part B into Part A while mixing well.
- After combining, continue mixing for several minutes more.
- Stir mixture again after induction time and add thinner if required.

Methods of Application

Application Parameters

Relative Humidity	Not to exceed 85%
Minimum Temperature	10°C (50°F)
Maximum Temperature	35°C (95°F)
Application Comment	• *If re coating after 6 months, lightly scuff the surface and SP-1 solvent wipe prior to top coating. • For application temperatures, outside of recommended min/max values, consult your Technical Sales Representative. • Please note that use of accelerator will shorten pot life. • Thinning is not recommended.

Equipment Settings

Airless Spray	Min. Fluid Capability	3000 psi
	Tip size	.017" - .021"
	Hose size	3/8" ID
Brush/Roll	• Lap marks may be visible. • Use solvent resistant equipment.	

Substrates
Ferrous Metals
Non-Ferrous Metals
Old or Damaged Galvanizing

Thinner
C-70 Slow Evaporating
C-25 Fast Evaporating

Additives
A-65 Accelerator

Equipment Cleaning
C-25 Thinner

Product Weight
Part A: 10.37 lbs/gallon kit
Part B: 1.52 lbs/gallon kit

Shelf Life
3 years Part A
3 years Part B
Applicable only for material stored in unopened, undamaged factory filled containers stored at 4°C-38°C (39°F-100°F). Subject to reinspection.

Flash Point
-7°C (19°F) TCC

Package Size
1 gallon kit
5 gallon kits
Drum stock special order

Drying Times

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Times
5°C (41°F)	4 hrs	48 hrs	see Rep
15°C (60°F)	2 hrs	36 hrs	see Rep
25°C (77°F)	1 hour	24 hrs	see Rep

Recoat Times

Substrate Temperature	Minimum	Maximum	Normal recoat
5°C (41°F)	6 hrs	* 6 Mths	8 hrs
15°C (60°F)	4 hrs	* 6 Mths	6 hrs
25°C (77°F)	1 hour	* 6 Mths	3 hrs

Performance Criteria

Standard	Method	Results
Abrasion Resistance	**ASTM D 4060**	41 mg Max; 1000gr;CS17 wheel; 1000 cyclesl
Adhesion	**ASTM D 4541**	900 psi minimum to Bondrite panels
Chemical Resistance:	**ASTM D**	Excellent
Flexibility:	**ASTM D 522**	8% elongation minimum
Humidity/Condensation:	**ASTM D 4585**	3000hrs. unaffected
Salt Spray (Fog):	**ASTM B117**	1500hrs; 2.7mm creepage at scribe
Impact resistance:	**ASTM D 2794**	44 inch - lbs minimum
Pencil Hardness:	**ASTM D 3363**	H - minimum

Typical Resistance (Non-Immersion)

Weather	Excellent	**Salt Water**	Good	**Acids**	Good
Moisture	Excellent	**Fresh Water**	Good	**Alkalis**	Excellent
Solvents	Good	**Abrasion**	Excellent	**Oil**	Excellent

Typical Resistance (Immersion)

Not recommended for immersion service

Safety Precautions

This product is for Industrial / Shop use only.

WARNING! If you scrape, sand or remove old lead paint from any surface you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information, Canadian customers contact the Product Safety division of Health Canada at 1-800-O-CANADA, US customers contact the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323).

WARNING! Use with Adequate Ventilation. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

WARNING! Proper breathing PPE must be worn during application. Refer to Safety Data Sheet for proper health and safety information, located at www.cloverdalepaint.com

Updates

Please visit www.cloverdalepaint.com for the most recent versions of Technical Data Sheets and Safety Data Sheets.

Last Modification date: 09/22/2017

LIMITATION OF LIABILITY

To the best of our knowledge, the technical data contained herein are true and accurate at the time of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. All technical advice, recommendations and services regarding this product are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable and are intended for use by persons having skill and know-how, at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from this product use by Buyer whether as recommended herein or otherwise. Such recommendations, technical advice or services are not to be taken as a license to operate under or suggest infringement of any patent.

WARRANTY

Cloverdale Paint Inc. warrants its products to be free from defects in material and workmanship. At its option, Cloverdale Paint Inc. will either replace products not conforming to this warranty or credit the Buyer's account the invoiced amount for the non-conforming products. This is Cloverdale Paint Inc.'s sole obligation and Buyer's exclusive remedy in connection with the products. In no event shall Cloverdale Paint Inc. be liable for special, indirect, consequential or incidental damages.

By purchasing this product the Buyer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the Buyer or implied by any applicable law.

Any claim under this warranty must be made in writing by the Buyer to Cloverdale Paint Inc. within ten (10) days of discovery of the claimed non-conformance, but in no event later than one (1) year from the delivery date. The Buyer's failure to notify Cloverdale Paint Inc. of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

READ LABEL AND SAFETY DATA SHEET PRIOR TO USE.

ArmourShield 837: XP High Gloss Polyurethane

PAINTED FINISH BLACK

Description

The Armourshield XP 837 Series is a two component, tightly crosslinked interpenetrating polymer network of acrylic and polyester urethanes. Virtually HAPS free at less than 1%, this high performance, VOC compliant aliphatic urethane provides superior gloss and color retention, excellent chemical resistance, outstanding abrasion resistance, and a very high gloss ("wet look") finish.

Coating Properties

Coating Category	Aliphatic Acrylic Urethane
Mix Ratio	4:1
Pot Life @ 50% RH, 25°C (77°F)	2 hours
Induction Time	None
Gloss	High Gloss
In-service Temperature Limits	
Continuous:	93°C (200°F)
Intermittent:	120°C (250°F)
Product VOC (g/L)	<340

Coverage Information

Volume Solids	60% May vary by base/color
Theoretical Coverage	962 ft^2/gal (23.6 m^2/L) @ 1 mil (25 microns) DFT. These coverage rates are based on 100% transfer efficiency
Recommended Film Thickness	Wet: 4.0 - 6.0 mils (100 - 150 microns) Dry: 2.0 - 4.0 mils (50 - 100 microns)
Applied Coverage	*Actual coverage will vary depending on substrate and application method. Please contact your Cloverdale Industrial Representative for specific project recommendations.*

Approvals / Certifications

MPI #72
AWWA D102-11, OCS 5/6
SSPC Paint 36

Benefits

Chemical Resistant
Excellent Gloss Retention
Excellent Weathering
Fast Dry
Good Flexibility on Aging
Low VOC
Outstanding Application
UV Resistant

Markets / End-Uses

Aircraft
Commercial Transport
Farm Machinery
Oil Field/Refinery Work
Process Equipment
Storage Tank Exteriors
Structural Steel
Trailers
Truck Body Builders

Bases

83703A	Clear Base
83705A	Yellow Base
83701A	Deep Base
83706A	Red Base
83707A	Green Base
83709A	Blue Base
83ARMB	Catalyst
83751A	Metallic Grey Base

System Recommendations

Contact your Cloverdale Technical Representative for system recommendations.

Mixing Instructions

4 Parts A to 1 Part B

- Stir Part A and Part B separately.
- Slowly pour Part B into Part A while mixing well.
- After combining, continue mixing for several minutes more.
- Add thinner if required.

Methods of Application

Application Parameters

Relative Humidity	Not to exceed 80 %
Minimum Temperature	10°C (50°F)
Maximum Temperature	35°C (95°F)

Equipment Settings

Airless Spray	Min. Fluid Capability	1200 psi
	Tip Size	.009" - .013"
Air Spray	Pot Pressure	10 – 20 psi
	Atomizing Air	45 – 65 psi
	Nozzle Set	0.7 - 1.4
Air Assisted Airless	Min Fluid Capability	700 psi
	Atomizing Air	40 - 70 psi
	Tip Size	.009" - .013"
Brush/Roll	• Lap marks may be visible. • Use solvent resistant equipment.	

Drying Times

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Times
10° C(50°F)	4 hrs	12 hrs	24 hrs
25°C (77°F)	2hrs	6-8 hrs	12 hrs
35°C (95°F)	1 hr	3 hrs	6 hrs

Recoat Times

Substrate Temperature	Touch Dry	Hard Dry	Tape Time
10°C (50°F)	4 hrs	12 hrs	N/A
25°C (77°F)	2hrs	6-8 hrs	7-8 hrs
35°C (95°F)	1 hr	3 hrs	N/A

This Urethane can be re coated with itself up to 3 days. After 3 days it must must be scuff-sanded for adhesion purposes

Substrates

Ferrous Metals
Non-Ferrous Metals

Thinner

C7603 VOC Compliant
C7604 Urethane Thinner

Equipment Cleaning

C25 MEK Thinner

Product Weight

Part A 6.37 lbs/gallon kit
Part B 2.20 lbs/gallon kit

Shelf Life

2 years on Part A
2 years on Part B
Applicable only for material stored in unopened, undamaged factory filled containers stored at 4°C-38°C (39°F-100°F). Subject to reinspection.

Package Size

1 gallon kit
5 gallon kit

Safety Precautions

This product is for Industrial / Shop use only.

WARNING! If you scrape, sand or remove old lead paint from any surface you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information, Canadian customers contact the Product Safety division of Health Canada at 1-800-O-CANADA, US customers contact the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323).

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Updates

Please visit www.cloverdalepaint.com for the most recent versions of Technical Data Sheets and Safety Data Sheets.

Last Modification date: 10/02/2017

LIMITATION OF LIABILITY

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WARRANTY

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Any claim under this warranty must be made in writing by the Buyer to Cloverdale Paint Inc. within ten (10) days of discovery of the claimed non-conformance, but in no event later than one (1) year from the delivery date. The Buyer's failure to notify Cloverdale Paint Inc. of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

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Proposed Art (Continued)

Attachment 4 - Roundabout Schematic

TUNNEL APPROACH AND POND LANDSCAPING AREA, SEE SHEET LS11

MATCH LINE - STA 101+10 SEE SHEET LS4

RESTORATION SEEDING

PROPERTY FRONTAGE LANDSCAPE AREA, SEE SHEET LS10

ART WALL PLANTING AREA #1, SEE SHEET LS10

ART WALL PLANTING AREA #2, SEE SHEET LS10

Concrete Pad for future statue / artwork at center of roundabout (City to solicit RFP)

ROUNDABOUT PLANTING AREA 1

RESTORATION SEEDING

ROUNDABOUT CENTER ISLAND LANDSCAPING AREA, SEE SHEET LS10

Knee High (3' to 4') Wall with Board Finish and "VELKOMMEN TIL POULSBO" Text

Shrubs with Irrigation

SR305 ROUNDABOUT CENTER ISLAND ART TO BE COORDINATED WITH CITY ART COMMITTEE

SR305 RBT CENTER ISLAND PLAN

SCALE IN FEET

MATCH LINE - STA 98+00 SEE SHEET LS2

PRELIMINARY

90% REVIEW SUBMITTAL

NOT FOR CONSTRUCTION

Parametrix

CITY OF POULSBO
JOHNSON PARKWAY AND SR305 ROUNDABOUT
POULSBO, WASHINGTON

JOHNSON PARKWAY & SR305
LANDSCAPE PLAN
STA 98+00 TO STA 101+10
AND STA 701+50 TO STA 707+75

LS3