



Michael McLaughlin
Bronze Sculpture



“Gentle as a friend’s hand resting on
my shoulder”

“This summer sunshine”

-Issa

Say not,
'I have found the truth',
but rather,
'I have found a truth.'
-Kahlil Gibran





Nature offers us the ability to change the way we view our world.

All communities are composed of separate branches

But collectively,

We all belong to the same tree.





We as viewers should discover the unexpected, finding content that applies to another part of our lives.





“Joys come from simple and natural things:
Mists over meadows, sunlight on leaves,
The path of the moon over water.”

-Sigurd Olson

Before I begin,
I would like to express a very special **thank you**
to the following for their generous help in my
research and extra long list of questions!

The Paula A. Lewis Public Library
The St. Lucie County Chamber of Commerce
The St. Lucie Audubon Society
Leon Levy Native Plant Preserve
Oxbow Eco Center Nature Preserve



“Listen to the sounds around you.
It will teach you there are no soloists in nature,
only myriad voices singing in infinite chorus.”



Port St. Lucie, Florida



Home to



325 Bird species
 116 Mammal inhabitants
 Insects 12,500
 Amphibians 142
 Reptiles 118...



Pileated Woodpecker
 Red, flying, red
 & fox squirrels
 Cooter Turtle
 Pine Snake
 Wood Stork
 Black Bear
 Brown Bat
 Barn Owl
 Leopard Frog
 Beaver
 Boar!!
 So much inspiration!



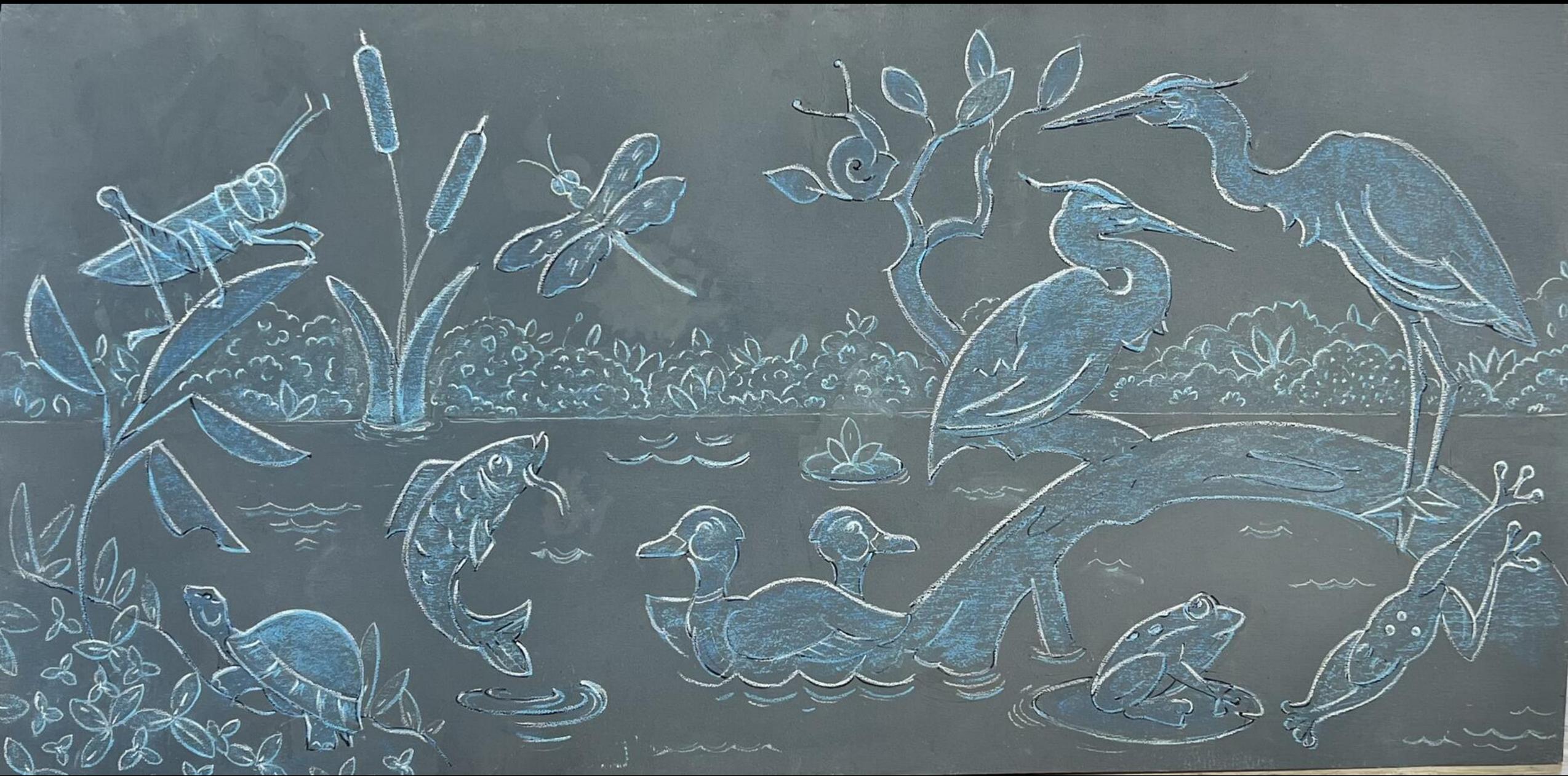
Port St. Lucie Paar Roundabout Sculptures

The drawings contained within this sketchbook of concept proposals are intended to present the thought and sentiment I would strive to bring to YOUR unique sculpture/s

Sculpture is a journey we invent when we make it.









For this very unique opportunity, I would like to propose 6 sculptures.
(3 sculptures per roundabout)

I would suggest that each may be viewed as distinctively independent sculptures .
(I modestly intend this in regards to subject matter and composition)

But..

My primary objective is that they ALL playfully relate to each other in such a way that they could be regarded as one.

These sculptures would be modeled as 3-dimensional, life-size (and most cases slightly larger) native animal species.
(Not cut-out silhouettes)
Cast in Bronze or Aluminum

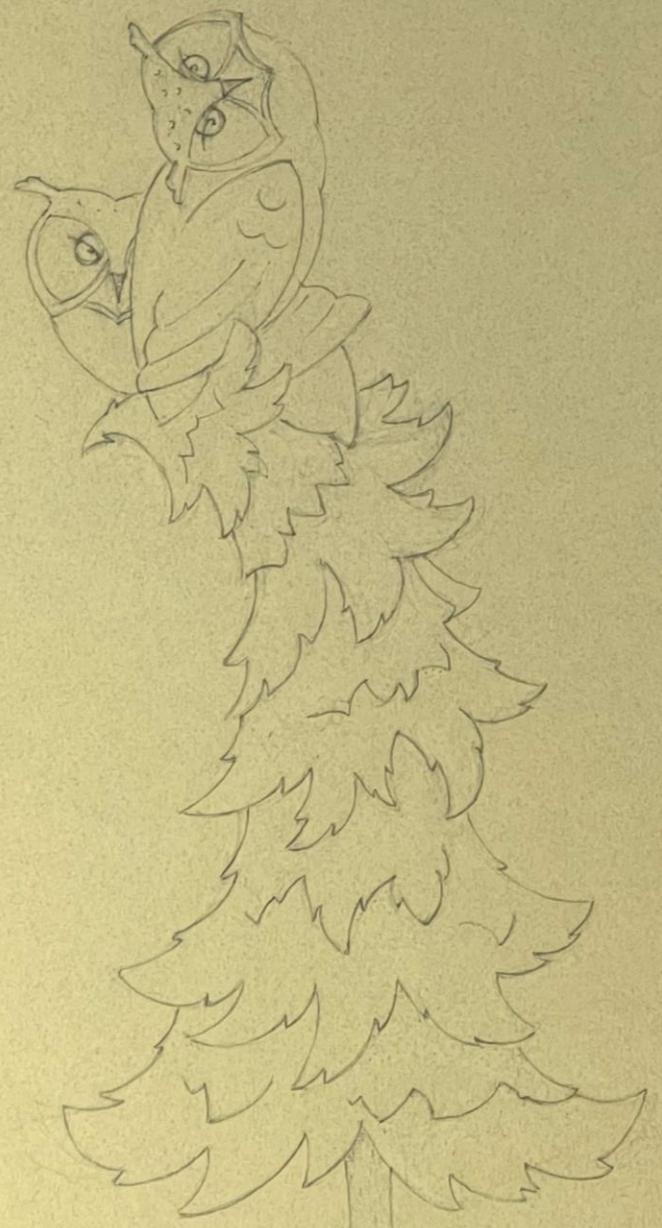
“A Hover of Hawks”



“An Eagerness of Beavers”



8' tall



"A Sagaciousness of Owls"

8' tall



“A Clowder of Bobcats”



7' tall

Complement the plantings and landscape design



“The Colloquy”

9' tall

“Community Informed Art”

I would like to convey that I am always very receptive to suggestions/recommendations

- Some of the most joyous projects are a direct result of this important ingredient.

If there is a certain flora/fauna that is especially meaningful, I am happy to discuss! MM





A "Walk" of Snails
&
A "Cloud" of Grasshoppers

8' tall

“An Aerie of Eagles”



8' tall

"A Sleuth of Bears"



7.5' tall



“A Siege of Herons”
(On Sawgrass)

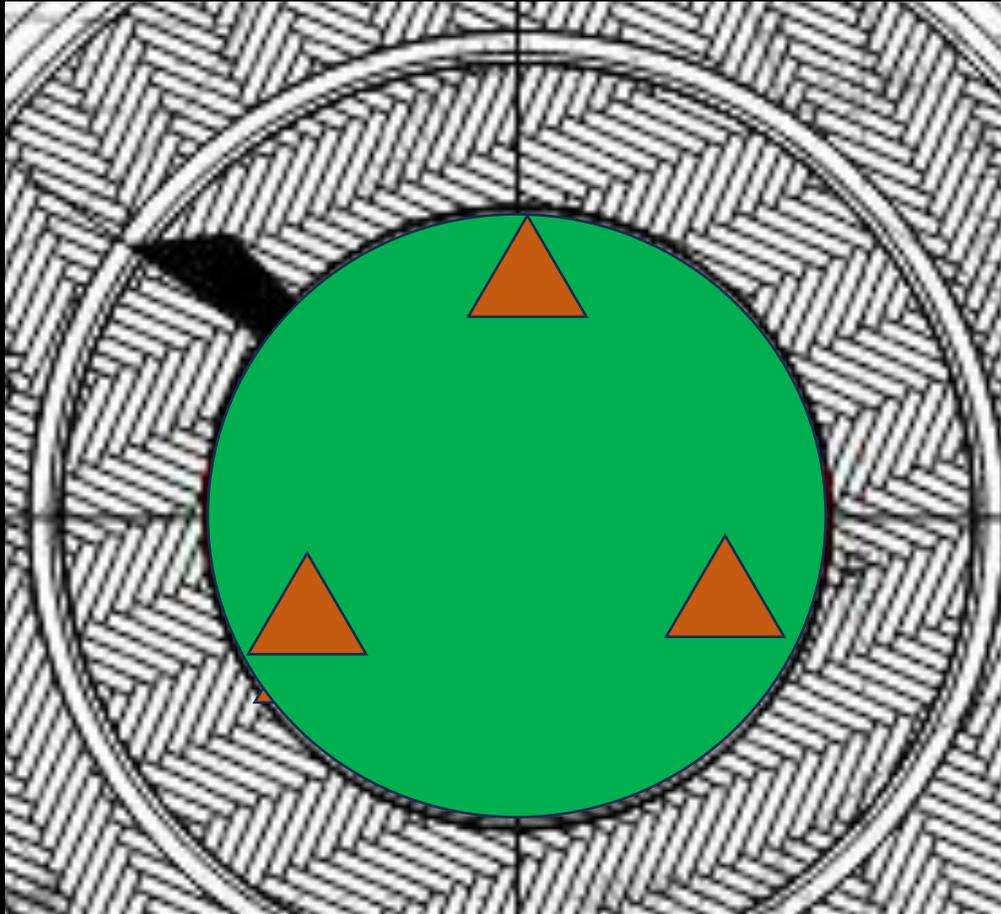
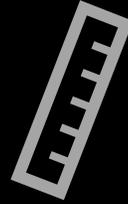
7.5' tall

“A Rafter of Turkeys”



6' tall

Proposed dimensions/placement



Each unique Sculpture could range from 6.5 to 9.5 ft. tall x 5 ft in diameter x width x depth

(3ea.) Unique sculptures designed for each roundabout

Placed toward the perimeter's edge. (Romantic side facing spectator)



Grade

Concrete Foundation (cross section below grade)



Color and Maintenance

The choice of Patinas can suggest the graceful appearance of aged antiquity. It also has the ability to make bronze appear rich, bright & iridescent



Our unique applications of traditional & contemporary finishes require little to no maintenance.



3 coats of exterior UV protective are applied upon installation.



Belmont

Everdur Silicon Bronze Product 4951

With its pleasant color (and ability to accept a range of patinas) combined with good fluidity, low drossing, and a reasonable solidification range, Everdur Silicon Bronze is widely used in both industrial and creative applications. Everdur's balance of mechanical properties and corrosion resistance has led to its use in valve and pump parts, impellers, bells and a variety of other engineering applications. More recently, Everdur's excellent casting characteristics have resulted in it being the preferred Bronze for sculpture casting and in its wide acceptance for the jewelry caster as well.

Nominal Chemical Composition

Copper	95%
Silicon	4%
Manganese	1%



Typical Physical Properties

Unless otherwise stated, measured at room temperature, 68°F (20°C).

Property	U.S.	Metric
Melting Range (solidus/liquidus)	1550°F–1780°F	840°C–971°C
Pouring Range	1900°F–2250°F	1010°C–1235°C
Density	0.302 lbs/cu. in.	8.36 g/cu. cm.
Specific Gravity	8.36	8.36
Thermal Conductivity	16.4 Btu/ft./hr./sq. ft./°F	28 W/m/°K
Electrical Conductivity	6% IACS	6% IACS

Typical Mechanical Properties (test bar values – C80100)

Unless otherwise stated, measured at room temperature, 68°F (20°C).

Property	U.S.	Metric
Tensile Strength	55000 lbs/sq. in.	379 MPa
Yield Strength	25000 lbs/ sq. in.	172 MPa
Elongation in 2 in. (50 mm)	30%	30%
Brinell Hardness (500 kg. wt.)	85	85
Shear Strength	28000 lbs/sq. in.	190 MPa
Impact Strength Izod	33 ft. lbs	45 Joules

Continued

Belmont: *The Non Ferrous Specialists*

For maximum variety in non ferrous metals, alloys and shapes.

Custom shapes and compositions available.

Bronze?

Why “Silicon” Bronze in particular?

95% copper

4% silicon and

1% manganese.



This “modern” alloy recipe was formulated early in the 20th C by metallurgists seeking to meet the high demand for better quality castings intended for industrial and marine applications.



It contains good structural quality, finishes nicely and accepts patinas readily. It especially offers a high resistance to corrosion!



For 20 years we have been fortunate enough to operate our own studio foundry.



This important asset allow us to perform all stages of our creative and technical fabrications under one roof.



I come from a construction background.(USAF Combat Engineer) For the past 20 years I have applied this unique life experience to our artistic endeavors. As a result, I can always be found “hands-on” in every aspect of installation/s.

There are occasions when we are mandated by state and local ordinances to seek out and subcontract with qualified companies that can assist us in these endeavors. Like any contractor or home-owner, we strive to seek those companies that have the ability to communicate well, provide the highest quality and value for the service. (Good references, insurance and credentials).





3" Dia. S-Steel Dowel
embedded in concrete
and fastened to interior
of casting

12" Dia x 48" Deep
Concrete Caisson

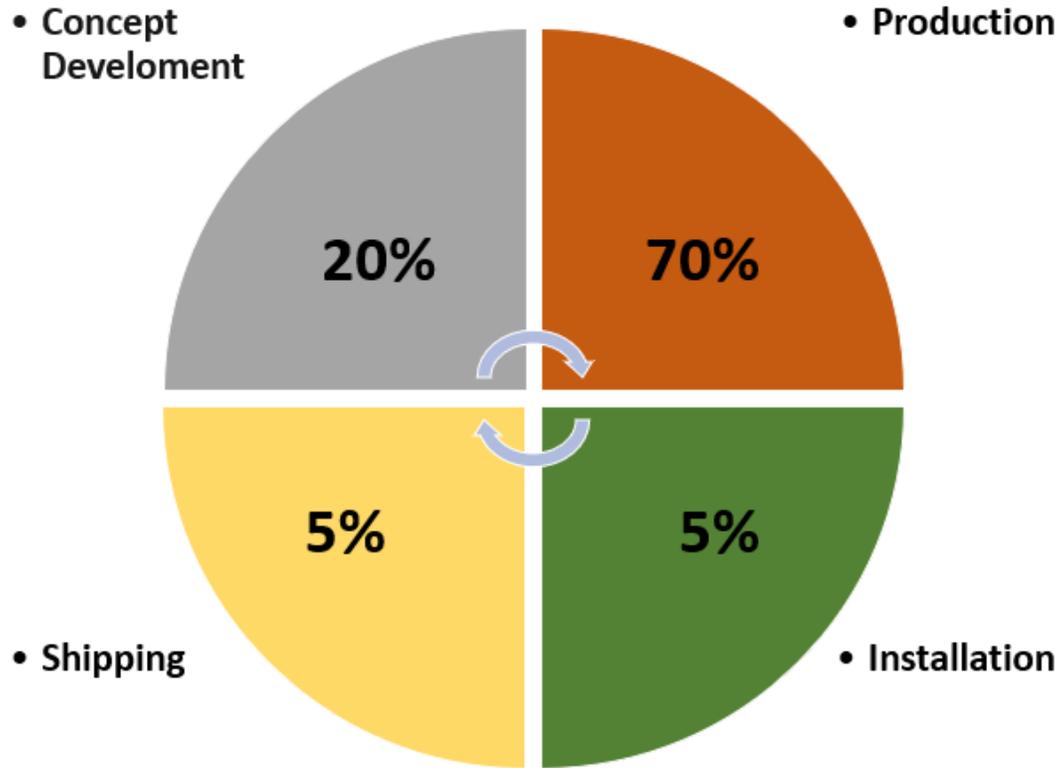
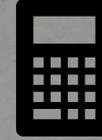
Installation Method & Materials :

This illustrates our suggested base-line installation concept.

As you probably all well know, a Florida licensed engineer will be a necessary and valuable partner for any sculpture installation.

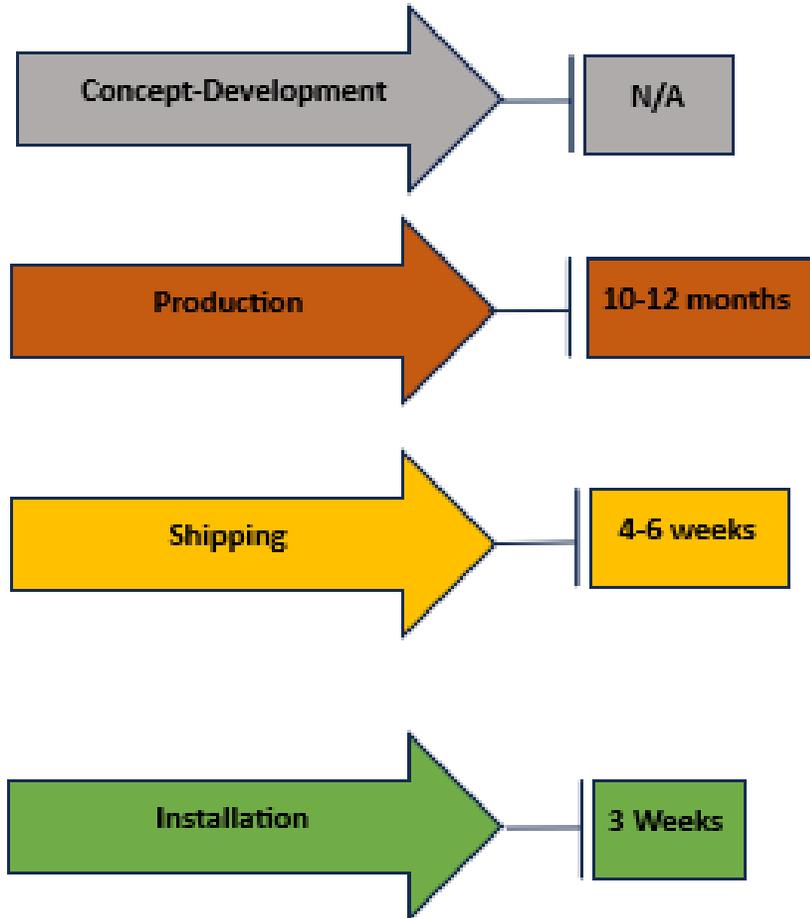
They will happily review and guide us in determining the exact foundation to meet & exceed all national, state and local building standards.

Project Budget



Patterns		\$15,000.00
Insurance		\$4,000.00
Foundry Costs		\$79,475.00
Fabrication		\$12,500.00
Delivery		\$6,000.00
Installation		\$15,000.00
Engineering		\$5,000.00
Permits		\$1,000.00
Incidentals		\$2,000.00
Taxes	6.35% Sales Tax	\$9,525.00
Total		\$150,000.00

Project Time-line



Project Duration 10 -16 months

Concept & Development- Through the discussion and use of visual materials (drawings/models) the parameters of the project, ie. scale, placement, estimated production schedule and projected requirements will be agreed upon. Administrative documentation is included

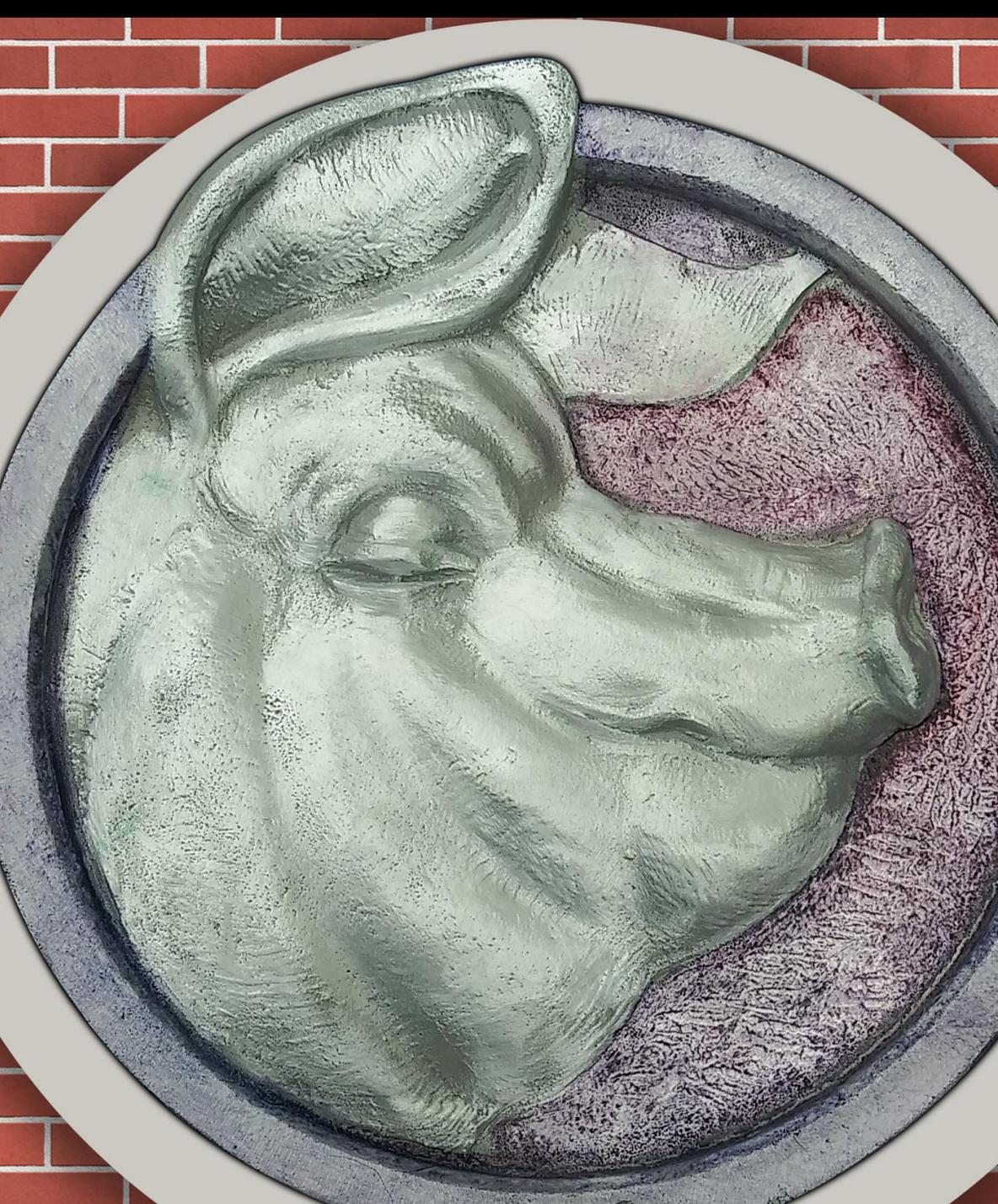
Production – The artist and team will create a full-scale prototype (plaster, clay wax or fiberglass) which will be delivered to the foundry for casting into the desired metal alloy. Upon completion there, the castings will be returned to the artist studio-workshop where fabrication, finishing and patina will be performed.

Shipping - Contracted freight handlers (or in some cases) the artist . Bonded, Insured DOT compliant 

Installation- Due to the scale-weight of the art work, it may be necessary to contract licensed riggers with specialty equipment to assist in installation.

NB: Liability Insurance, permitting, engineering certificates, custom fees and incidentals are calculated in “production”. All requisite supplies, materials and associated costs for site clean up are included in “installation”





Note:

Aluminum could be offered as an equally durable and time tested alternative.

A wire brushed finish can give the rich appearance of silver pewter. Aluminum can be colored transparently (or boldly if desired).

Aluminum can allow for larger scale castings.





Thank you so much for the opportunity to present our work. I am very honored and grateful for your consideration. Please feel free to reach out at any time for further information .



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Development Images

