



Square: 1912

Photo property of the Museum of History and Industry



# FORTSON SQUARE WELCOME FIGURE PROPOSAL

PIONEER SQUARE PRESERVATION BOARD

DECEMBER 1, 2021

Square: Today



JONES JONES  
ARCHITECTS  
LANDSCAPE ARCHITECTS  
PLANNERS



INTRO | PROJECT SUMMARY

Fortson Square is beginning the process of reawakening, honoring Seattle’s indigenous history and reinvigorated future. As a key crossing point from Downtown into Pioneer Square, this site offers the opportunity to welcome and celebrate Salish peoples and cultures. Key to creating a culturally resonant sense of place will be the Grandmother Frog Welcome Figure by Andrea Wilbur-Sigo. The Welcome Figure will reflect the roots and stories of the Coast Salish people while also bringing a new story as she overlooks Fortson Square and protects the surrounding areas.

Representative of the traditions of local Coast Salish peoples, the Welcome Figure can help educate people about the art that represents Seattle’s rich indigenous forms and stories, separate from the totem or story pole tradition of Canada and Alaska northern tribes. Through her carvings Andrea Wilbur-Sigo is telling “the story not only of not only our past, not only our future, but then there’ll be future stories, too.”

Andrea Wilbur-Sigo, an artist, carver, and Squaxin Island Tribe member envisions the Grandmother Frog Welcome Figure as a human figure standing on a concrete base, her feet elevated above the elements and foot traffic. Day and night she will be a welcoming presence, with lights highlighting her features after dark.



Duwamish village, illustration by Steve Patricia



Looking South from Smith Tower: Today



Andrea Wilbur-Sigo carving



Grandfather's Wisdom by Andrea Wilbur-Sigo



Cedar and Hand Dyed Wool by Andrea Wilbur-Sigo



## INTRO | ARTIST'S BACKGROUND

### ANDREA WILBUR-SIGO

Andrea Wilbur-Sigo lives in Shelton, Washington where she was born in 1975 and is a member of the Squaxin Island Tribe. She is the daughter of Andy and Ruth Wilbur-Peterson, granddaughter of Bert and Arline Wilbur great-granddaughter of Andrew and Betty Peterson and great-great granddaughter of Henry and Alice Allen of which Henry was one of the major historical and cultural informant for an ethnographic study of the Twana and Salish people.

Andrea is the first known native woman carver of many generations of carvers. She grew up with many types of art around her. She started out with beadwork and has since learned the Coast Salish art forms including bentwood boxes, welcome figures, house posts, masks, panels, button blankets, twine, twill and baskets weaving.

Her artistic life began at the age of three surrounded by an artistic community that included elders such as her Kia Louisa Pulsifer, Emily Miller, Georgie Miller, Great Grandfather Andrew Peterson, Aunt Bertha Visser and her grandfather Bert Wilbur. She has recently worked with well-known master carvers such as Andy and Ruth Wilbur-Peterson, Loren White, Susan Point, Pete Peterson, Joe and George David and Dempsey Bob. Andrea is continually researching and applying her knowledge to her art forms today.

Andrea did her first show in December 1997, then in May 1998 she participated in the First Annual Indian Art Northwest show in Portland, Oregon where she took 1st place and Honorable Mention. Andrea has continued to place in every show thereafter.

In 2006 Andrea attended the Heard Museum Show for the first time and took first place in her division. She also took best of show and People's Choice at the first Annual Native art show, which took place at the Tacoma History Museum. In 2007 Andrea once again took People's Choice at the second Annual Native art show in Tacoma Washington. Several years later 2016 she attended the "International Salish Wool Weavers Symposium" that was held in Suquamish WA and she took 1st place and Peoples Choice with her fully twined blanket that was made for her daughters graduation.

Andrea is an active member of her tribe, volunteering her time and artwork for several community events including being an active member of the tribal museum board. She also teaches Coast Salish art classes on a regular basis to *children and adults of all ages for many of the local tribes.*



### AWARDS AND SHOWS

- 2016 "1st Place" Salish Wool Weavers Symposium- *Fully Twined Blanket*  
"People Choice" Salish Wool Weavers Symposium- *Fully Twined Blanket*
- 2007 People's Choice "In the Spirit" 2nd Annual Native art show- *House Screen*
- 2006 Best of Show "In the Spirit" 1st Annual Native art show- *8' Spindal*  
People's Choice "In the Spirit" 1st Annual Native art show- *8' Spindal*  
1st Place Heard Museum Native art Show- *Small Bentwood Box/ Relief*
- 2002 Picked to represent the USA at the Winter Olympic Awards- *Salt Lake City*  
Artist of the month of May- *Dept. Of Interior Building Washington, DC*
- 2000 3rd Place IANW- *Small Bentwood Box / Relief Carving*  
2nd Place IANW- *Sculpture/ Doll Carving*
- 1999 3rd Place IANW- *Small Bentwood box/ Relief carving*
- 1998 Honorable Mention IANW- *Moon Mask*  
1st Place IANW - *Bentwood box/ Relief carving*

### PUBLIC PROJECTS/COMMISSIONS

- 2020 TBA Chief Seattle Club- *Seattle WA*  
TBA East Side Crossings, *Olympia WA*  
Place 8th Generation, *Seattle WA*
- 2019 WSCC-*Washington State Convention Center, Seattle WA*
- 2015 2-10' House Post, *UW Intellectual house Seattle WA*  
1-12' Creation Spindal Whorl *Suquamish WA*
- 2012 House Front, *Brightwater Treatment Plant Seattle WA*
- 2011 2-8' House post, *Suquamish Veterans Memorial*  
1-12' Welcome Figure, *Panorama City Olympia, WA*
- 2010 2-11' House Post, *Suquamish Veterans Memorial*  
2-18' Welcome Figures *Port of Seattle Cruise Terminal Seattle WA*
- 2009 1-7' Round Spindal floor install *Evergreen State College Longhouse*  
Benches and glass panel *Puyallup Elders Center*
- 2008 2-18' House Post, *Suquamish Community House*  
2-8' House Post, *Squaxin Island Veterans Memorial*
- 2007 1-8' Yellow Cedar Spindal, *Little Creek Casino Hotel*  
1-10' Welcome Figure, *Little Creek Casino Hotel*  
Interior of the "Island Grill" Restaurant, *Little Creek Hotel*  
2-8' House Post "She who's watching" and "He who's being watched"  
1-6' x 10' House Screen
- 2006 2-10' Welcome Figure, *Suquamish Clear Water Hotel*  
1-6' Spindal Whorl, *Suquamish Clear Water Hotel*  
Series of Panels, *Suquamish Clear Water*





**DUKABAL AND GRANDMOTHER FROG**

Long ago there were two young sisters and one of them had a baby, they would leave the baby with their blind grandmother while they went to work gathering wood and roots. The grandmother was told to never call the child a boy or address him as her grandson! While the sisters were working the grandmother would keep the baby in a cradle board, this cradle board for some unknown reason would bounce the baby up and down all on its own. So, the grandmother would just sit and sing to her grandchild. When grandmother would sing to the baby, she would refer to the baby as her granddaughter like the sisters had asked her to do. But one day while the sisters were out working, and grandmother was watching the baby she referred to her grandchild as her grandson.... Quickly she corrected herself and said oh granddaughter, my granddaughter. What grandmother did not know was that there were two women secretly watching and when the grandmother was taking a nap the women swept in and took the grandbaby and replaced him with a rotten piece of wood. So, when the sisters got home, they heard the grandmother singing away but it was a new song the grandmother was saying “oh my grandchild you smell like a rotten piece of wood, you smell so rotten ha-ha, oh how you smell so rotten” .... The sisters both looked at each other and thought what grandma is singing about so they went to check on the baby and the baby was gone.... Where had the baby went who has taken this baby.... So, they called on all the neighboring nations to please help find the baby and they searched and searched but after looking high and low for the baby they had no luck.... What they did not know was that the baby was taken to the Great Sky World because of his great Tamanmis powers. His mother went on to have another child but never lost hope in finding her son.

Her other son was born with health issues but always enjoyed retrieving water at the nearby spring. One day while there he was looking at his reflection and he saw two reflections he was so startled, so he quickly looked away and when he looked again sure enough there was a second reflection but this one was much older about 10 years older. He Crawled home and told his mom... “Mom I saw two of me in the water. His mother just smiled and thought oh my son you have a great imagination” .... But the next day the same thing happened but, on this day, the older reflection touched him on the shoulder and for the first time he did not crawl home.... He was able to run home. And say mom, mom look at me, my reflection has healed me and with great surprise and happiness sure enough her son could walk for the first time.... The next day the son went to get water like he had done every day, but he danced all the way there and sang as loud as he could with pure love and happiness! When he got to the water once again, he saw his

reflection, the older version of himself, but this time the older him could talk He said, “go home and tell our mom her oldest son has come home and to come see me tomorrow”. The younger son turned and said, “what I thought it was just my reflection in this water I was seeing the past few days and you are here... the brother I have only heard of, mom will no longer be sad”. So, the younger brother ran and sang and danced all the way home with the great news that his brother was back and that he was the one who healed him and is the reason he could walk.

With much excitement the younger sister who was now older could not wait to go to the spring the next morning she always knew he was somewhere, she always felt he was nearby. So, first thing when the sun came up, they ran to the spring and loved on and hugged the baby who was now all grown, he was now a handsome mid aged man, her son had the great Tamanmis powers of being able to heal all people. He told his mom and aunt I am here to clean the house, so after he had done his work, they put on a big feast to let all know, the child has returned so everyone who had searched for him years earlier came to feast and celebrate together.

The oldest son explained to all that I have been raised in the sky world and I really miss it so much all I want to do is go home. Dukabal’s Mother and sister just wept at the idea of him leaving them again. He then told his mother before I go, I must find a wife, not just a wife but his life partner. So, he and his brother went into the house and made the announcement that he was here to find his bride. Well, all the unmarried women were already there and everyone there wanted to be the wife of the oldest son now known as Dukabal, the healer who was raised in the sky world. So, he said I have this huge bundle of spears and I will take for my bride the woman who can lift this bundle of spears.... Day turned into night, one after another they tried picking up these spears to no avail. Nobody could even budge this bundle and the woman tried and tried. Suddenly the door to the big house opened and everyone, now full and tired, stopped to look who could be opening that door as everyone who was anyone was already there from the richest to the poorest.... as word had traveled so fast as to this mysterious man from sky world with such great powers was wanting a partner.



So, they traveled over the mountains from the east as far east as Coeur D’Alene and over the mountains and threw the water from as far west as Quinault, they traveled from as far north as Nooksack and Lummi and as far south as Chinook.... but there stood in the doorway “The Woman of the Night.... Toad” with her granddaughter Frog woman! Everyone shook their head with disbelief as frog was a tiny little lady who never made a sound what was Toad thinking.... But Toad had great powers and she said step aside I want my granddaughter to have her turn, and everyone laughed, I mean how was a woman as quiet as Frog going to be with Dukabal... But they all parted the room to humor grandmother Toad and along her side stood a shy little Frog who followed her grandmother to the bundle of spears and as she looks around, she reaches over and picked up the bundle and threw it over her shoulder and onto her back with such ease and so gracefully. She turned and walked back to the door to where Dukabal was awaiting his bride. Everyone in shock had nothing to say and they quietly left the house leaving only Dukabal, his bride Frog, his brother and his mother and his aunt.

Dukabal’s mother was so happy to see both of her sons so happy and healthy and then she realized that he has come and done what he was here to do. Dukabal had cleaned the house and found his bride and now he was going to return to the Skyworld where he had grown up. Knowing that he was going to be returning she began to cry she told him “my son, my oldest son, I’ve been looking years for you and I always knew you were ok and that I’d see you again.... but never did I think I would have to lose you again... how will I talk to you, how will I know that you are ok, my boy”. As he looked at his mother’s sad face, he said mom, I was only taken to the Skyworld because “You cooked me just right and gave me the strong roots”. The day they took me I became known to all as Dukabal and I’m always around you I am the moon in the Sky I control the tide; I will always take care of you my mother.... I will bring you high water to help the fish get to you and I will give you low water to fill my peoples belly with the shellfish, that will show themselves to you during those low tides. You will always be able to look in the sky and I will be right there whether you see me or not, I will be dangling my feet from the nearest cloud on the days you can’t see me in moon form, you need to know that I will always watch over you. Mother you need to know I’ve never left your side... But I came to find my bride, I needed to find my life partner to help with my loneliness, I felt I needed someone to talk to and to become my best friend, I want to spend nights talking and build a safe home together. Now she will return to the Skyworld with me and together we will fill our hearts with love.

Dukabal’s Mother said but son I always thought you would make me a grandmother and I thought I would have time to enjoy my babies, just as your blind grandmother did with you. Dukabal smiled and leaned towards his mom with a sparkle in his eye and said ohhh mom that is part of why I’m here to find my wife, my partner, my best friend and he quietly said mom when I return to the Skyworld We will produce lots of children, your grandchildren and they will cover the sky and they will look like the phosphorus that you see in the water and we will call them our little stars. They will be right there for you to watch daily. Then next morning Dukabal and Frog went to the sky world and started their family, one by one Dukabal’s mother watched her grandchildren appear night after night, her little stars.

Frog is a great gatherer, and she would gather the camas roots and wood everyday just as she did in her birth world. But now she would teach her many children to do the same. There were three sisters that she so enjoyed watching for an unknown reason they never would never leave each other’s side, they were best friends and they stayed together always every moment laughing, talking and singing never to be separated (the three sisters). Mother Frog enjoyed watching her children grow and her and Dukabal loved the family they had created but as Frog got older, she began to realize how much she missed her grandmother Toad.

Frog was getting older, it was her time to relax, she needed to feed her soul, so she took the roots she had been gathering and decided she needed to start weaving and started plying a rope made of the roots she had been gathering. So, day after day she turned those roots into a beautiful long rope. One day while gathering more roots, she ran across a hole in the ground and after taking a closer look she realized she could see her old home, which only made her miss her grandmother even more. She told Dukabal I need to go see my family and explained that she had found that hole and had made a rope long enough to climb home so they went home to visit and then she climbed back to sky world again. She stayed up all not night telling her husband how wonderful it was to see her grandmother and family and how wonderful their family has become.

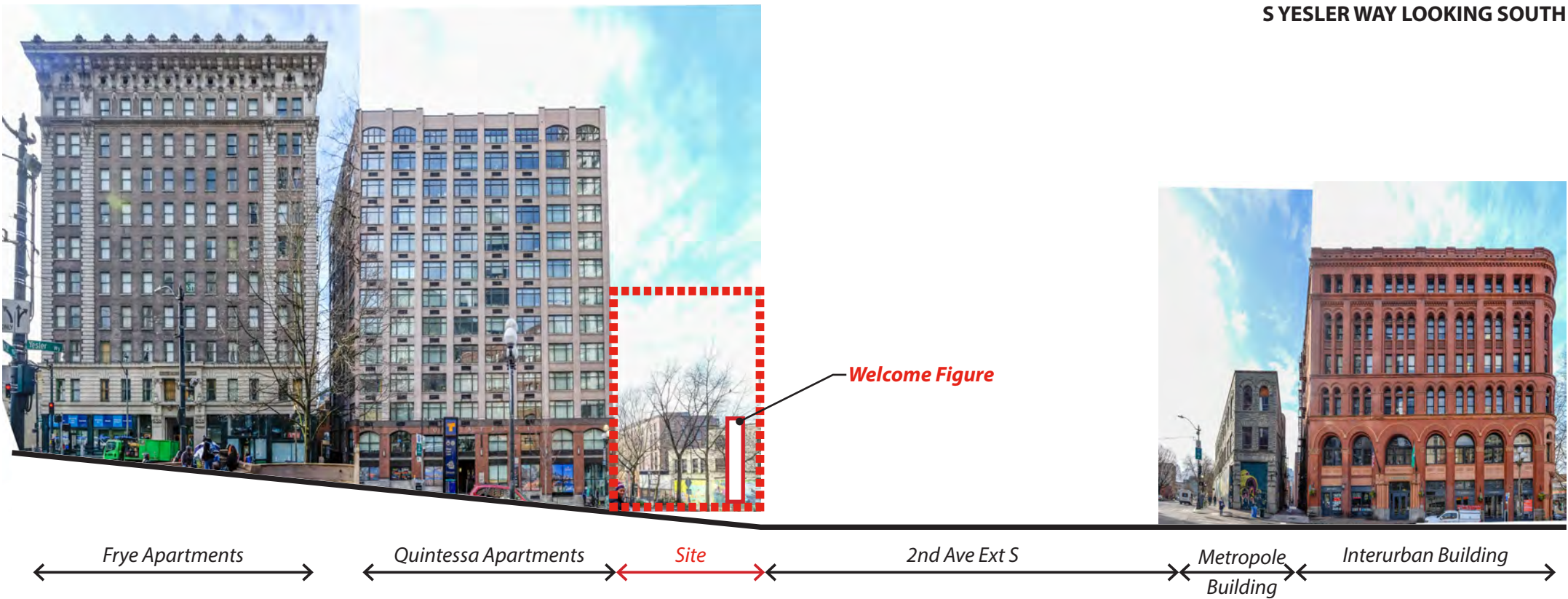
A few years later Frog went to see her grandmother again but this time she asked Dukabal to go join her, but when it was time to leave Frog told Dukabal who she deeply loved that she would not be returning to the home they made but at she needed to stay here with her grandmother she continued to explain “ I’m going to be having our youngest children now, and I want to have them here so your mother and my grandmother can enjoy them and I’m ready now to add to my title. I am not only your wife, and our children’s mother, but I’m soon to become a Grandmother Frog! Dukabal felt the feeling his mother had felt so many years earlier and said but wife how will I talk to you, how will I know you and my children here will be ok!” Frog smiled with a look of kindness and love and said “My silly husband I will be right here, I will talk to you every night, I will have our youngest children in the pond that appears when the tide comes high. Together we will nurture, reaffirm and renew the love that we have created and will continue to create until the end of time. Remember we will always be resilient and we will come together always as needed, a life were we once stood alone has now become a life that will always keep us together, we may need to change in time, but not only will we stand together, but we will stand even stronger, we together have joined 3 worlds The Skyworld, Land World, and Underwater World and we have reaffirmed to the next generation all things are possible together and together we are Dukabal and Grandmother Frog.... The great Creators...”

So, every night as you hear the frogs talking it is just Grandmother reassuring Dukabal that she and the children and the grand children are doing great and will continue to be resilient and together as a family in a safe home.





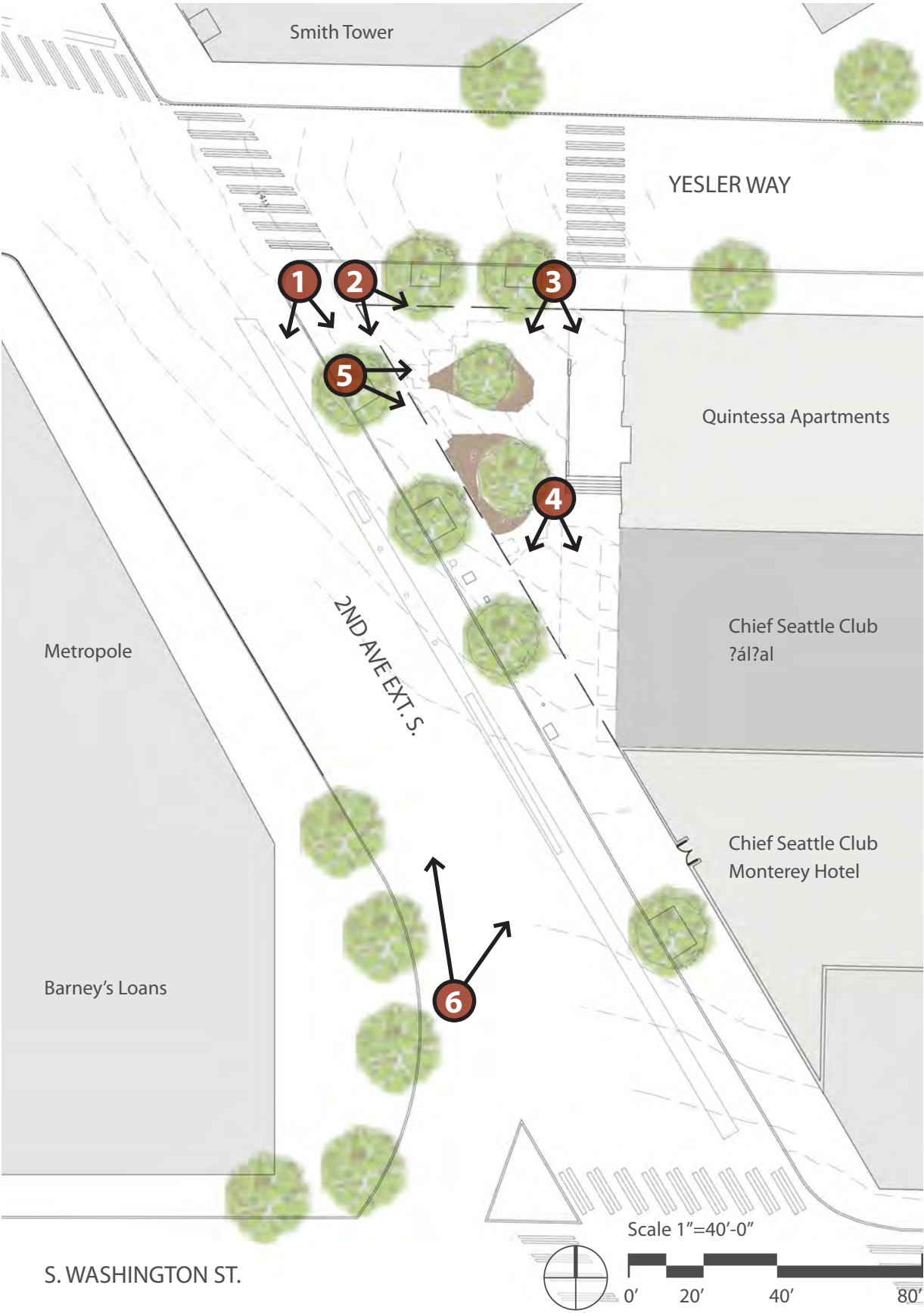
S YESLER WAY LOOKING SOUTH



2ND AVENUE SOUTH/2ND AVE EXT SOUTH LOOKING EAST



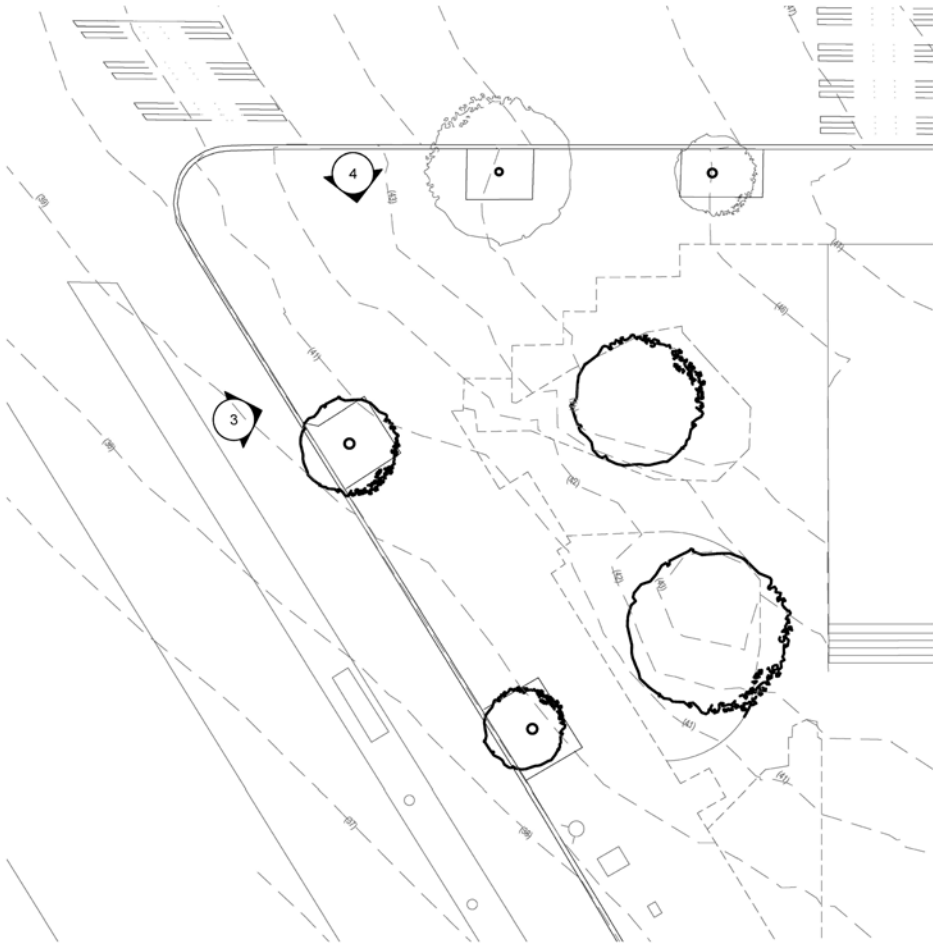








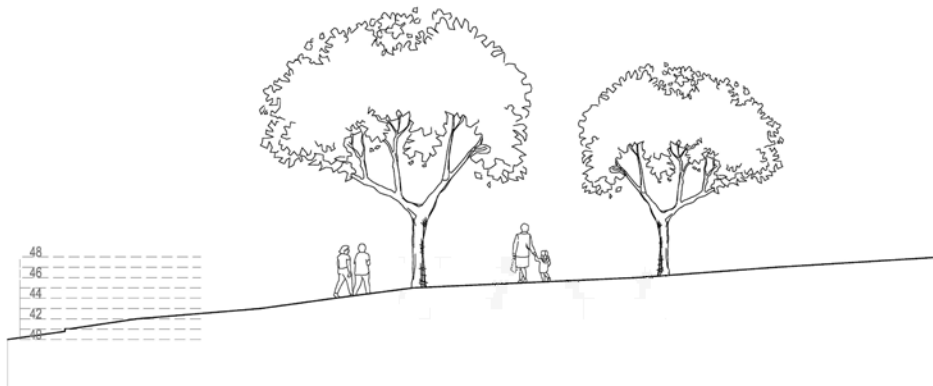




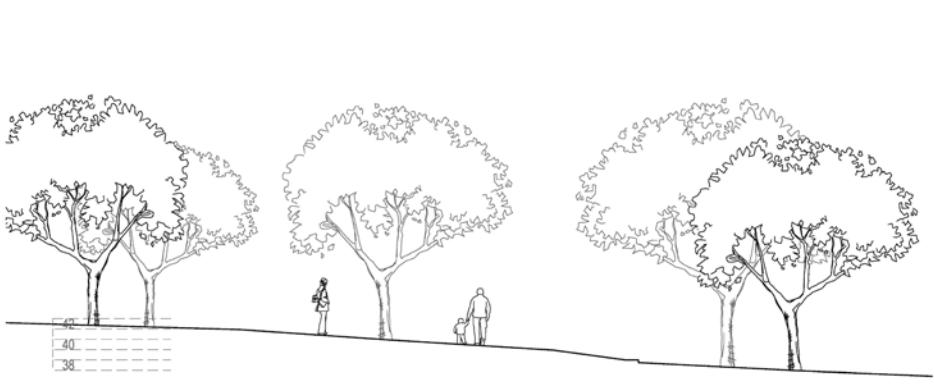
1 EXISTING AREA PLAN  
SCALE: 1" = 10'-0"



2 EXISTING SITE PLAN  
SCALE: 1/4" = 1'-0"



3 EXISTING WEST ELEVATION  
SCALE: 1/8" = 1'-0"



4 EXISTING NORTH ELEVATION  
SCALE: 1/8" = 1'-0"





SITE | GIVENS



- Legend**
- Fortson Square Redesign Area (4430sf)
  - Sidewalk Area - sidewalk grading to be maintained (3300sf)
  - Total Area 7730sf**
  - Building entry
  - Transit node
  - Bicycle Lane





**GUIDING PRINCIPLES**

Fortson Square should be redesigned to optimize the capacity of the host (Chief Seattle Club and the indigenous peoples of this area) to offer maximum space for cultural engagement and positive visitor experience.

Native people in urban areas face unique challenges; by remaking the Square to embrace the diversity of Native cultures, languages, and traditions of American Indians and Alaska Natives, it recognizes their presence here and gives the “white settlers” a chance to experience and honor the original inhabitants on an important location in their history. Fortson Square will be a place to embrace and honor the indigenous presence here, becoming a place that is resonant of meaning and a source of pride to the Native community as well as our community at large. Design inspiration for the Square will be true to Salish culture: its art, music, story, food, plants, and animals.

**DESIGN AND LAYOUT**

- **Create the first native-focused public space in Pioneer Square.**
- Honor the site and use water as the theme - it was a marsh on the edge of the Salish Sea. Water is the original medicine and gives life.
- Utilize native plantings and native art installation(s).
- Review regrading options to create flat area for desired programming
- Study the urban tree canopy in immediate area to determine locations for new street trees to improve the canopy of the area

**PROGRAMMING**

- Determine neighborhood’s programming desires for the Square
- **Design a cultural performance space** to accommodate for following:
  - Drumming and Singing Space: Fortson Square programming would include drumming and singing, consisting of approximately 4-8 drummers, and 4-10 singers circling them. Additional space would be needed for singers and audience.
  - Prayer Ceremonies: Last October the Club conducted a Mayan smudging ceremony with more than 10 members, staff and community circled on the pavement, and were blocking pedestrian space. Additional smudging might occur as well.
- Native Works café space (Café at new building would put chairs and tables out on Square)
- Native Works Kiosk
- Place for eating lunch and possibly Food trucks to park (along Yesler Ave – not in the Square)

**SECURITY**

- Improve the public safety of the space.





# ARTWORK | WELCOME FIGURE LOCATION

## APPROXIMATE LOCATION CONSIDERATIONS

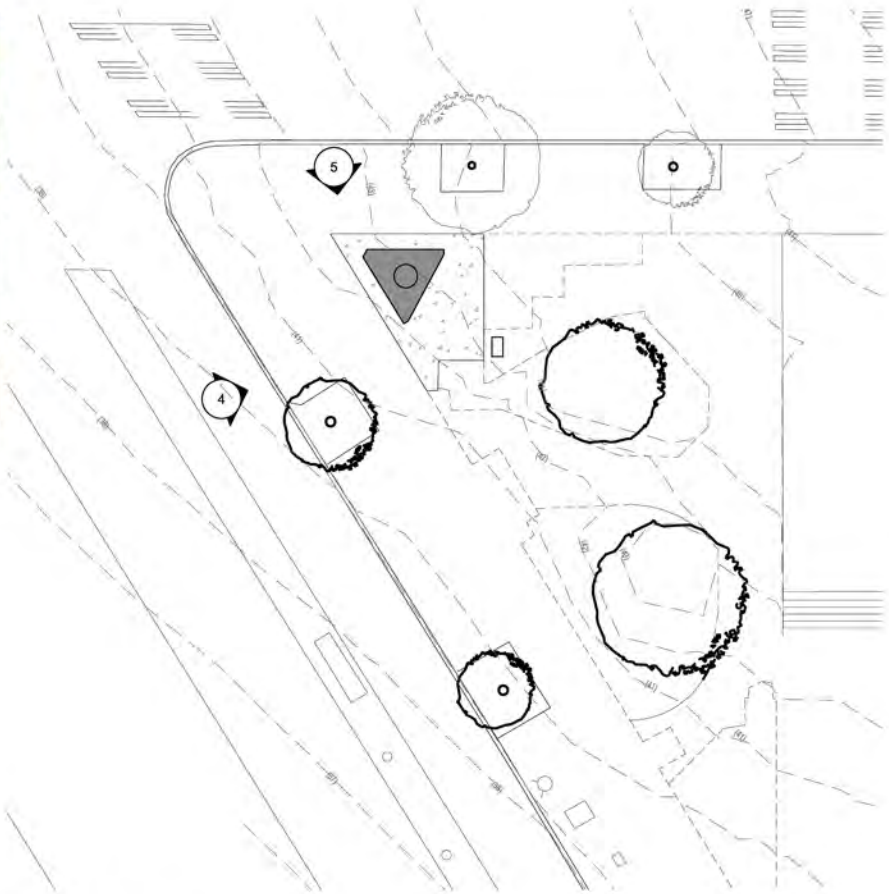
- Visible from Chief Seattle Club ʔálʔal
- Visible outside Fortson Square
- Able to be viewed from all sides
- Anchor Fortson Square
- Existing Trees to remain
- Existing Below Grade Utilities to remain
- Maintain minimum sidewalk clearances
- Maintain flexibility within Fortson Square for future TBD renovation
- Relatively low slope grade
- Will coordinate final location & base details with artist and design/engineering team
- Will go through SDOT SIP permitting process to finalize location



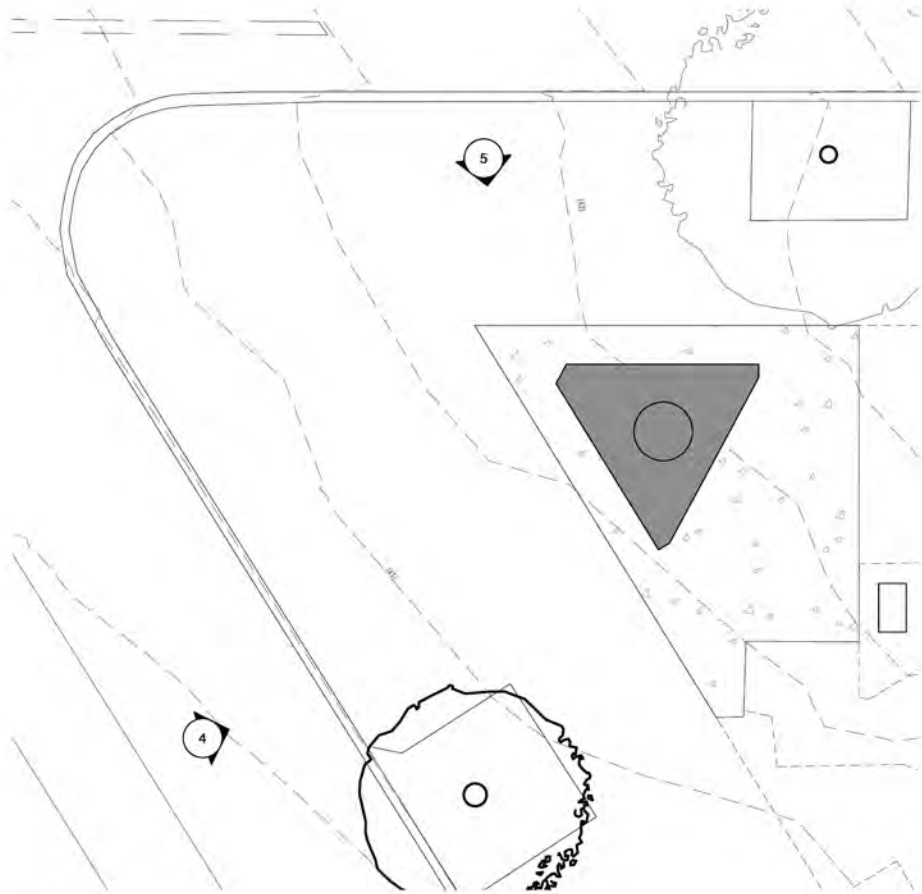




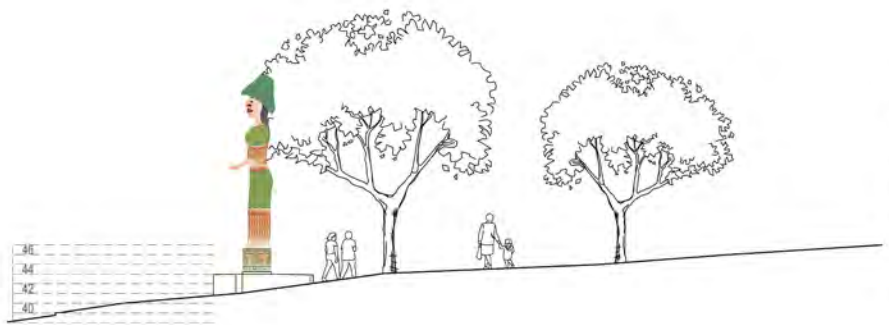
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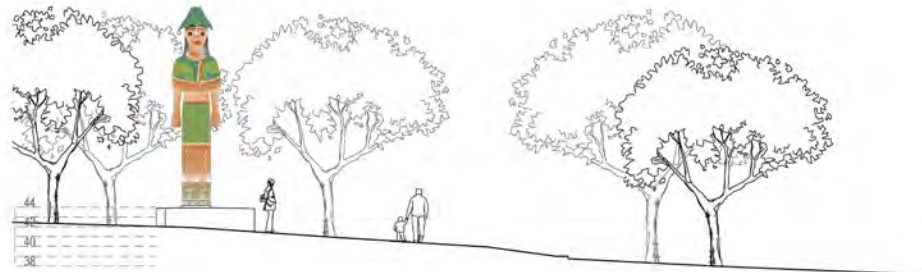
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3 SITE PLAN  
SCALE: 1/4" = 1'-0"



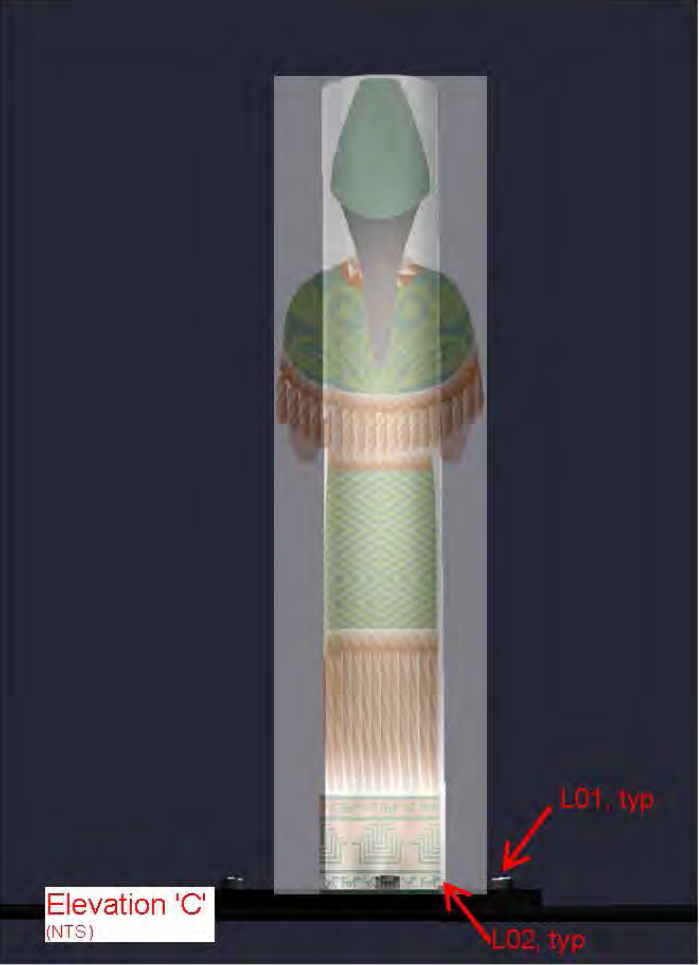
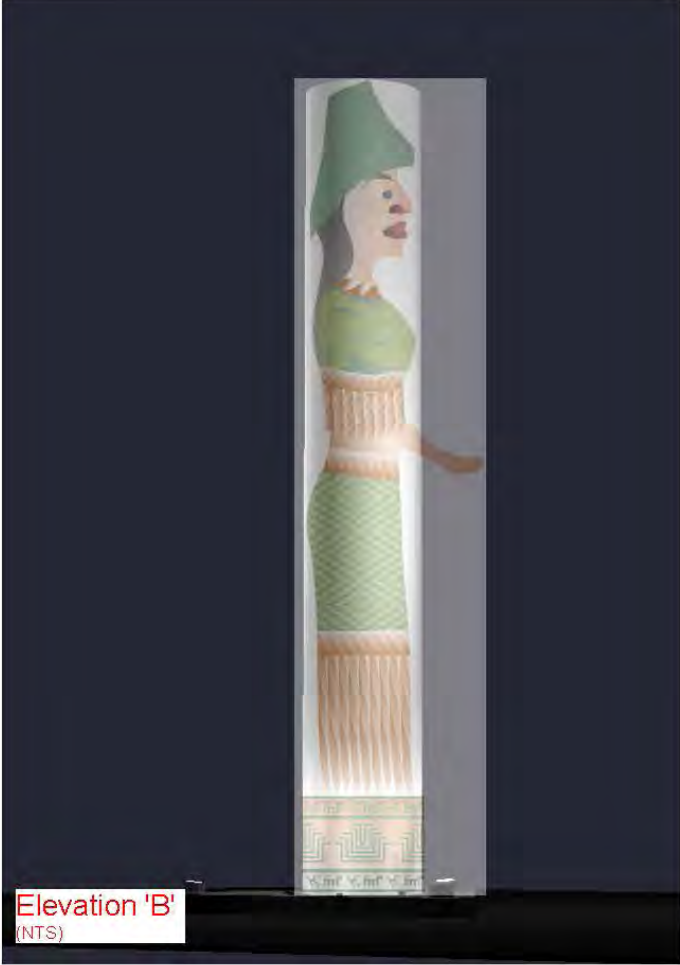
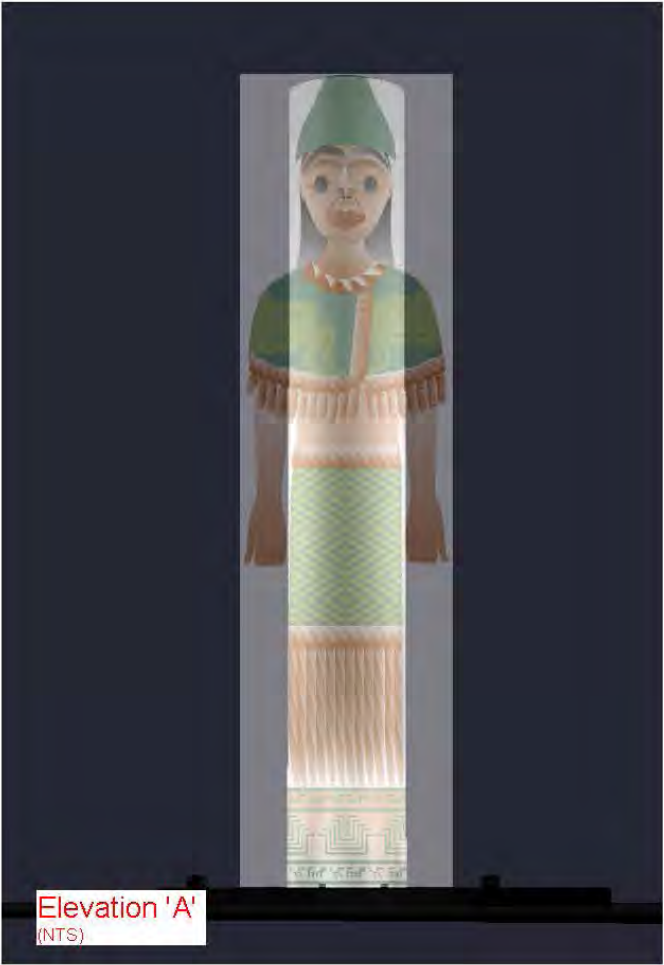
4 WEST ELEVATION  
SCALE: 1/8" = 1'-0"



5 NORTH ELEVATION  
SCALE: 1/8" = 1'-0"





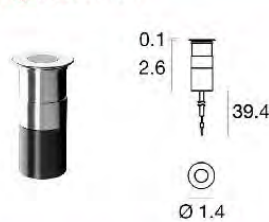


Type L01 - LineaLight Orma-adj



quantity 3 - flush, in-ground adjustable-aimable uplight w/20-degree narrow spot beam

Type L02 - LineaLight Suelo Pro-R



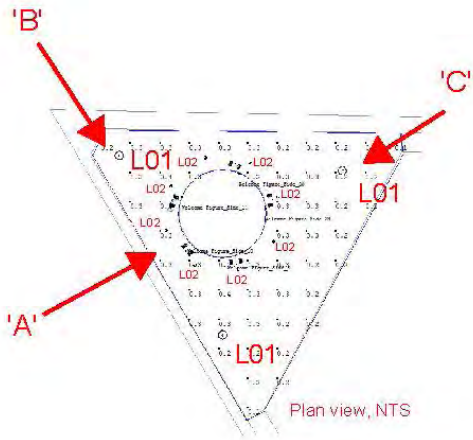
quantity 8 - flush, in-ground uplight w/120-degree beam

Welcome Figure

Preliminary Lighting Concepts:  
Accent lighting + lighting at base

S. Glover, Stantec  
2021-12-02

Project 1	
Calc Pts	
triangular plinth_Top	
Illuminance (Fc)	
Average=0.26 Maximum=0.4 Minimum=0.1 Avg/Min=2.60 Max/Min=4.00	
Welcome Figure_Side_10	
Illuminance (Fc)	
Average=1.60 Maximum=2.5 Minimum=0.6 Avg/Min=2.67 Max/Min=4.17	
Welcome Figure_Side_14	
Illuminance (Fc)	
Average=5.14 Maximum=10.0 Minimum=1.1 Avg/Min=4.67 Max/Min=9.09	
Welcome Figure_Side_20	
Illuminance (Fc)	
Average=1.56 Maximum=2.5 Minimum=0.6 Avg/Min=2.60 Max/Min=4.17	
Welcome Figure_Side_24	
Illuminance (Fc)	
Average=4.30 Maximum=7.5 Minimum=1.4 Avg/Min=3.07 Max/Min=5.36	
Welcome Figure_Side_6	
Illuminance (Fc)	
Average=4.89 Maximum=9.2 Minimum=1.3 Avg/Min=3.75 Max/Min=7.08	





L01 LIGHTS

- Lights will be on from dusk until midnight and from 6AM until dawn

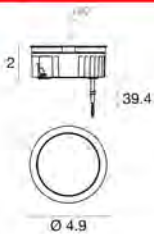


Orma trim flush adjustable

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

Uplights | arrayLED 12 W | CRI 80 | 3000K | Spot | Stainless Steel | Tilttable | Wet location |  
350mA  
LL-E82462-W-15

Type L01



Technical data	
Type	Walk Over
Installation position	Floor
Installation environment	Outdoor
Light Source	LED
Optics	Spot
Light emission direction	upward
Power	12 W
Operation	350mA
Source lumens	1724 lm
CCT	3000 K
Color rendering index	80 Ra
Safety class	Class 2
IP	IP68/90min@15'
IK	IK10
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Operating temperature	-20 / +50
Dimmable article	Yes
Directional	No
Tilting	Yes
total angle (vertical plane)	20 °
Walk-over	Yes
Drive-over	No
Cable included	Yes
Cable length	3.28 ft
Resin potting	Yes
Type of light emission	Single emission
Net weight	1.98 lbs
Electrostatic discharge protection	No
Surge protection	No
Optics technology	Honey comb
Product technological characteristics	Acquascope
Ordinary temperature on the glass	104 °F

Finishing casing	
Material	Die-cast Aluminum EN AB - 48100
Color	black
Process	Open pore anodizing + Powder Coating
Finishing diffuser	
Material	Extra clear glass - Tempered
Color	transparent
Process	Silk-screening
Finishing flange	
Material	AISI 316L steel
Color	steel
Process	Brushing
Cables Electrification	
Cable connector	No

Notes:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Orma trim flush adjustable

Uplights | arrayLED 12 W | CRI 80 | 3000K | Spot | Stainless Steel | Tilttable | Wet location |  
350mA  
LL-E82462-W-15

Type L01

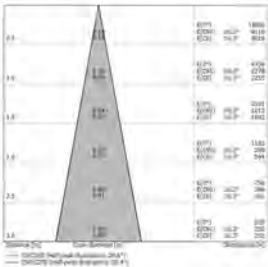
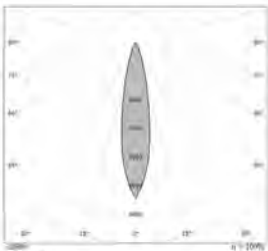
Single emission uplights for outdoor application. The warm white LED light source with a spot light distribution is composed of 1 arrayed LEDs with CCT of 3000 K and a CRI 80; the source luminous flux is 1724 lm, with a 143.7 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminum en ab - 46100 and features a black finish, processed by means of open pore anodizing + powder coating; the diffuser is made of extra clear glass - tempered with a silk-screening treatment. The ingress protection degree is IP68; the total weight is of 1.984 lbs.

The total absorbed power is 12 W. The power supply cable is included and features a 3.281 ft lenght.

and can be floor-mounted with an outer casing, code E99657(for concrete or masonry).

Compliant with the EN 60598-1 standard and its specific provisions.

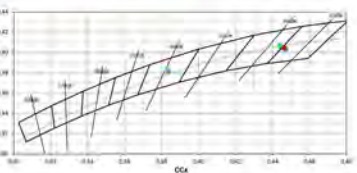
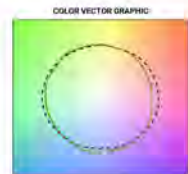


Led features	
Light Output Ratio (LOR)	50 %
Source lumens	1724 lm
Delivered lumens	870.42 lm
Power	12 W
Luminaire efficacy	72 lm/W
Color temperature	3000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Color rendering index	80 Ra
Gamut Area Index	55 GAI
Color Rendering Index	10 R9
IES TM-30 Rf	83
IES TM-30 Rg	96
Black Body Locus	On

**LED Life / Failure Ratio:**  
L70 B10 C0 296960h (at Tj 65 Ta 25 )

UGR	
UGR axial	8.7
UGR transversal	8.5
X=4H   Y=6H	S=0.25H
Reflection factor	70/50/20

OPTICAL	
Light distribution symmetry	Symmetrical
C0/C180 optics	20°



Orma trim flush adjustable

Orma trim flush adjustable | Uplights | Accessories  
LL-E82462-W-15

Type L01



Outer casing  
Installation position: floor; type of installation: masonry L=5in,  
H=2.99in, D=5in.  
Material:ABS, color:black.

Code

E99652



Outer casing  
Installation position: floor; type of installation: masonry L=4.13in,  
H=2.99in, D=4.13in.  
Material:ABS, color:black.

Code

E99564



Outer casing  
Installation position: floor; type of installation: masonry L=5.75in,  
H=2.99in, D=5.75in.  
Material:AISI 316 steel, color:steel

Code

E99657

Outer casing  
Installation position: floor; type of installation: masonry L=5in,  
H=2.99in, D=5in.  
Material:ABS, color:black.

Code

E83202

**E99652**  
Concrete  
casing  
PVC



**SOLO100W-350**  
0-10V EIdoLED  
SOLOdrive 100W  
for 1-4 fixtures





ARTWORK | LIGHTING AND DETAILS


L02 LIGHTS INFORMATION

■ Lights will be on from dusk until dawn



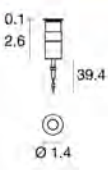
SueloPRO\_R

Project: \_\_\_\_\_  
Type: \_\_\_\_\_



Uplights | 1 x powerLED 2 W | CRI 80 | 3000K | General Lighting | Stainless Steel | Drive-over(5511.55 lbs) | Wet location | 630mA  
LL-E80439-W-00

Type L02



Technical data	
Type	Drive Over
Installation position	Floor
Installation environment	Outdoor
Light Source	LED
Optics	General Lighting
Light emission direction	upward
Power	2 W
Operation	630mA
Source lumens	233 lm
CCT	3000 K
Color rendering index	80 Ra
Safety class	Class 2
IP	IP67
IK	IK09
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
ETL	Yes
Operating temperature	-20 / +50
Dimmable article	No
Directional	No
Tiling	No
Walk-over	Yes
Drive-over	5511.55 lbs
Cable included	Yes
Cable length	3.28 ft
Resin potting	Yes
Type of light emission	Single emission
Net weight	0.33 lbs
Electrostatic discharge protection	No
Surge protection	No
Optics technology	Set-back low glare optics
Product technological characteristics	Acquastop - TVS
Ordinary temperature on the glass	104 °F

Finishing casing	
Material	Aluminum 6026
Color	Anodized Aluminum
Process	20 µm anodizing

Finishing flange	
Material	AISI 316L steel
Color	steel
Process	Brushing

Cables Electrifcation	
Cable connector	No

Notes:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Power supply options (remote only)

OT96-D010  
Osram, 10%, 0-10V dim, 96W, 24V DC, 120-277VAC, supplied in a Dry location  
Dimming required Wet location required

OT96-JBX  
Osram, Non-dim 24V DC, 120-277VAC, Wet location

Recessed casings

Ø 1.3  
3.2  
Ø 3

E99684  
Outer casing for ground-mounting installation IP67/68

1/3

20.11.2021

inter-lux

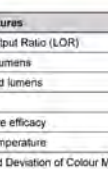
inter-lux.com/linealight

SueloPRO\_R

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

Uplights | 1 x powerLED 2 W | CRI 80 | 3000K | General Lighting | Stainless Steel | Drive-over(5511.55 lbs) | Wet location | 630mA | Base  
LL-E80439-W-00

Type L02



Single emission uplights for outdoor application. The warm white LED light source with a general lighting light distribution is composed of 1 powered LEDs with CCT of 3000 K and a CRI 80; the source luminous flux is 233 lm, with a 116.5 lm/W nominal luminous efficacy.

The device body is made of aluminum 6026 and features a anodized aluminum finish, processed by means of 20 µm anodizing. The ingress protection degree is IP67, the total weight is of 0.331 lbs.

The total absorbed power is 2 W. The power supply cable is included and features a 3.281 ft lenght.

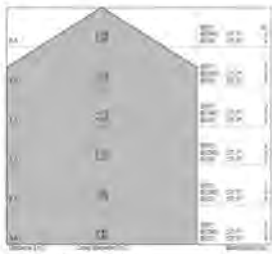
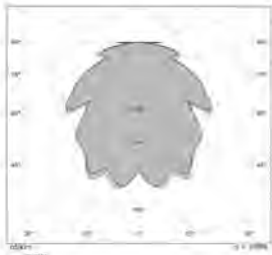
and can be floor-mounted with an outer casing, code E99684(for concrete or masonry).

Compliant with the EN 60598-1 standard and its specific provisions.

Led features	
Light Output Ratio (LOR)	7 %
Source lumens	233 lm
Delivered lumens	16.7 lm
Power	2 W
Luminaire efficacy	8 lm/W
Color temperature	3000 K
Standard Deviation of Colour Matching	1/16 ANSI BIN
Color rendering index	80 Ra
LED Life / Failure Ratio	
L70 B10 C0 361980h (at Tj 60 Ta 25 )	

UGR	
UGR axial	28.5
UGR transversal	28.2
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL	
Light distribution symmetry	Symmetrical
C0/C180 optics	115°



2/3

20.11.2021

inter-lux


linealight.com

SueloPRO\_R

Project: \_\_\_\_\_  
Type: \_\_\_\_\_

SueloPRO\_R | Uplights | Accessories  
LL-E80439-W-00

Type L02



Outer casing  
Installation position: floor; type of installation: masonry Lx2.95in, Hx3.15in, Dx2.95in  
Material:ABS, color Matt Black

Code  
E99684

3/3

20.11.2021

inter-lux

inter-lux.com/linealight

FORTSON SQUARE WELCOME FIGURE ARTWORK CONCEPT PROPOSAL

16 SEATTLE OFFICE OF ARTS & CULTURE PAAC | APRIL 27, 2021



Grandmother Frog  
Wood Welcome Figure,  
Carved and Painted,  
Approximately 21'-6" tall

Wood Base,  
Carved and Painted



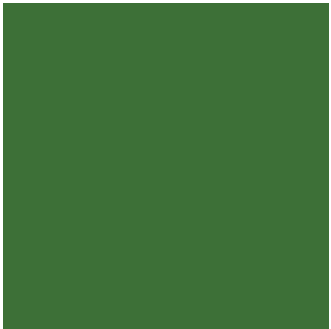
SIDE ELEVATION



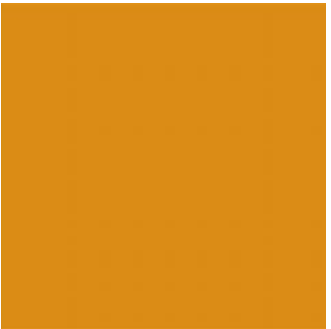
FRONT ELEVATION



BACK ELEVATION



Chromium Green Oxide



Yellow Oxide



Red Oxide



Mars Black

OXIDE COLOR PALLETTE

Rich earth tone colors selected to best match locally occuring colors

Scale 1/4"=1'-0"





GRANDMOTHER FROG WELCOME FIGURE


PROPOSED MATERIALS

- Old Growth Red Cedar
- Paint- Valspar Exterior
- Oil- X-100 wood protective coating
- Gorilla Glue

PROPOSED MAINTENANCE

- For the first 3-5 years, a coat of X100 wood protective coating or equal is recommended to maintain moisture and minimize checking and mildew.
- Oil yearly for 3-5 years, then oil as needed after 5 years.
- If dirty, surface wash with soap and water to clean.

SAFETY DATA SHEET

2350			
<b>Section 1. Identification</b>			
Product name	: Supreme® Exterior Semi-Gloss Tint Base		
Product code	: 2350		
Other means of identification	: Not available.		
Product type	: Liquid.		
<u>Relevant identified uses of the substance or mixture and uses advised against</u>			
Paint or paint related material.			
Manufacturer	: Valspar 101 W. Prospect Avenue Cleveland, OH 44115		
Emergency telephone number of the company	: (800) 424-9300		
Product Information Telephone Number	: 1-877-825-7727		
Regulatory Information Telephone Number	: (216) 566-2902		
Transportation Emergency Telephone Number	: (800) 424-9300		
<b>Section 2. Hazards identification</b>			
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	: CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 7.2% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 7.2% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 7.2%		
GHS label elements			
Hazard pictograms	: 		
Signal word	: Danger		
Hazard statements	: Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. (lungs)		
Precautionary statements			
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.		
<b>Date of issue/Date of revision</b> : 5/19/2020 <b>Date of previous issue</b> : 5/14/2020 <b>Version</b> : 9.02    1/13			
2350	Supreme® Exterior Semi-Gloss Tint Base	SHW-85-NA-GHS-US	

Section 6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
Environmental precautions	: This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
Methods and materials for containment and cleaning up			
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

Section 7. Handling and storage			
Precautions for safe handling			
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.		
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		
Date of issue/Date of revision	: 5/19/2020	Date of previous issue	: 5/14/2020
2350	Supreme® Exterior Semi-Gloss Tint Base	Version	: 9.02
		SHW-85-NA-GHS-US	4/13

Section 2. Hazards identification	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients		
Substance/mixture	: Mixture	
Other means of identification	: Not available.	
CAS number/other identifiers		
Ingredient name	% by weight	CAS number
Titanium Dioxide	≤10	13463-67-7
Kaolin	≤10	1332-58-7
Heavy Paraffinic Oil	≤1	64742-65-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.  
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.			
Section 4. First aid measures			
Description of necessary first aid measures			
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Date of issue/Date of revision	: 5/19/2020	Date of previous issue	: 5/14/2020
2350	Supreme® Exterior Semi-Gloss Tint Base	Version	: 9.02
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Section 7. Handling and storage	
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection		
Control parameters		
Occupational exposure limits (OSHA United States)		
Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	ACGIH TLV (United States, 3/2019). TWA: 10 mg/m³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Respirable fraction TWA: 10 mg/m³ 10 hours. Form: Total OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 3/2019). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist
Kaolin	1332-58-7	
Heavy Paraffinic Oil	64742-65-0	

Occupational exposure limits (Canada)			
Ingredient name	CAS #	Exposure limits	
Titanium dioxide	13463-67-7	CA British Columbia Provincial (Canada, 5/2019). TWA: 3 mg/m³ 8 hours. Form: Respirable dust TWA: 10 mg/m³ 8 hours. Form: Total dust CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form:	
Kaolin	1332-58-7		
Date of issue/Date of revision		: 5/19/2020	Date of previous issue
2350		Supreme® Exterior Semi-Gloss Tint Base	Version : 9.02 SHW-85-NA-GHS-US
			5/13

Section 4. First aid measures	
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effects, acute and delayed	
Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary  
Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
Specific treatments : No specific treatment.  
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)			
Section 5. Fire-fighting measures			
Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.		
Unsuitable extinguishing media	: None known.		
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.		
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides		
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		
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Section 8. Exposure controls/personal protection		
diuron (ISO)	330-54-1	Respirable CA British Columbia Provincial (Canada, 5/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 1/2014). TWAEV: 5 mg/m³ 8 hours. Form: Respirable dust CA Ontario Provincial (Canada, 1/2018). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 4 mg/m³ 15 minutes. Form: respirable fraction TWA: 2 mg/m³ 8 hours. Form: respirable fraction CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 5/2019). TWA: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.
Occupational exposure limits (Mexico)		
diuron (ISO)	CAS #	Exposure limits
diuron (ISO)	330-54-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.  
Environmental exposure controls : This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.  
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures  
Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

<b>Eye/face protection</b>	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
<b>Skin protection</b>	
<b>Hand protection</b>	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
<b>Body protection</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Other skin protection</b>	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<b>Appearance</b>			
<b>Physical state</b>	: Liquid.		
<b>Color</b>	: Not available.		
<b>Odor</b>	: Not available.		
<b>Odor threshold</b>	: Not available.		
<b>pH</b>	: 9		
<b>Melting point/freezing point</b>	: Not available.		
<b>Boiling point/boiling range</b>	: 100°C (212°F)		
<b>Flash point</b>	: Closed cup: 96°C (204.8°F) [Pensky-Martens Closed Cup]		
<b>Evaporation rate</b>	: 0.09 (butyl acetate = 1)		
<b>Flammability (solid, gas)</b>	: Not available.		
<b>Lower and upper explosive (flammable) limits</b>	: Not available.		
<b>Vapor pressure</b>	: 2.3 kPa (17.5 mm Hg) [at 20°C]		
<b>Vapor density</b>	: 1 [Air = 1]		
<b>Relative density</b>	: 1.19		
<b>Solubility</b>	: Not available.		
<b>Partition coefficient: n-octanol/water</b>	: Not available.		
<b>Auto-ignition temperature</b>	: Not available.		
<b>Decomposition temperature</b>	: Not available.		
<b>Viscosity</b>	: Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)		
<b>Molecular weight</b>	: Not applicable.		
<b>Aerosol product</b>			
<b>Heat of combustion</b>	: 1,043 kJ/g		
<b>Date of issue/Date of revision</b>	<b>Date of previous issue</b>	<b>Version</b>	
2350	Supreme® Exterior Semi-Gloss Tint Base	5/14/2020	9.02
			SHW-SS-NA-GHS-US

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours

<b>Persistence and degradability</b>
Not available.

<b>Bioaccumulative potential</b>
Not available.

<b>Mobility in soil</b>	
<b>Soil/water partition coefficient (K<sub>oc</sub>)</b>	: Not available.

<b>Other adverse effects</b>	: No known significant effects or critical hazards.
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Section 13. Disposal considerations

<b>Disposal methods</b>	: This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.  The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
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<b>Chemical stability</b>	: The product is stable.
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<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
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<b>Conditions to avoid</b>	: No specific data.
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<b>Incompatible materials</b>	: No specific data.
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<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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Section 11. Toxicological information

Information on toxicological effects					
Acute toxicity					
Product/ingredient name	Result	Species	Dose	Exposure	
Heavy Paraffinic Oil	LD50 Dermal	Rabbit	>5000 mg/kg	-	
	LD50 Oral	Rat	>5000 mg/kg	-	
Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

<b>Sensitization</b>
Not available.

<b>Mutagenicity</b>
Not available.

<b>Carcinogenicity</b>
Not available.

Classification			
Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

<b>Reproductive toxicity</b>
Not available.

<b>Teratogenicity</b>
Not available.

<b>Specific target organ toxicity (single exposure)</b>
Not available.

<b>Specific target organ toxicity (repeated exposure)</b>
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Section 14. Transport information

<b>Additional information</b>	-	-	-	-	-
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<b>Special precautions for user</b>	: Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.
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<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	: Not available.
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<b>Proper shipping name</b>	: Not available.
<b>Ship type</b>	: Not available.
<b>Pollution category</b>	: Not available.

Section 15. Regulatory information

<b>U.S. Federal regulations</b>	: TSCA 5(a)2 proposed significant new use rules: 5-Chloro-2-methylisothiazolinone TSCA 5(a)2 final significant new use rules: Trichloroethylene This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.
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<b>SARA 313</b>
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

<b>California Prop. 65</b>
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

<b>International regulations</b>
<b>International lists</b>

<b>Australia inventory (AICS)</b>	: Not determined.
<b>China inventory (IECSC)</b>	: Not determined.
<b>Japan inventory (ENCS)</b>	: Not determined.
<b>Japan inventory (ISHL)</b>	: Not determined.
<b>Korea inventory (KECI)</b>	: Not determined.
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	: Not determined.
<b>Philippines inventory (PICCS)</b>	: Not determined.
<b>Taiwan Chemical Substances Inventory (TCSI)</b>	: Not determined.
<b>Thailand inventory</b>	: Not determined.
<b>Turkey inventory</b>	: Not determined.
<b>Vietnam inventory</b>	: Not determined.

Section 16. Other information

<b>Hazardous Material Information System (U.S.A.)</b>	
<b>Health</b>	3
<b>Flammability</b>	0
<b>Physical hazards</b>	0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.	
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Section 11. Toxicological information

<b>Name</b>	<b>Category</b>	<b>Route of exposure</b>	<b>Target organs</b>
Kaolin	Category 1	Inhalation	lungs

<b>Aspiration hazard</b>	
<b>Name</b>	<b>Result</b>
Heavy Paraffinic Oil	ASPIRATION HAZARD - Category 1

<b>Information on the likely routes of exposure</b>	: Not available.
<b>Potential acute health effects</b>	
<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
<b>Eye contact</b>	: No specific data.
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: No specific data.
<b>Ingestion</b>	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Short term exposure</b>	
<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.
<b>Long term exposure</b>	
<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.
<b>Potential chronic health effects</b>	
Not available.	

<b>General</b>	: Causes damage to organs through prolonged or repeated exposure.
<b>Carcinogenicity</b>	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

<b>Numerical measures of toxicity</b>
<b>Acute toxicity estimates</b>
Not available.

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Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.	
<b>Procedure used to derive the classification</b>	

<b>Classification</b>	<b>Justification</b>
CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 1	Calculation method Calculation method

<b>History</b>	
<b>Date of printing</b>	: 5/19/2020
<b>Date of issue/Date of revision</b>	: 5/19/2020
<b>Date of previous issue</b>	: 5/14/2020
<b>Version</b>	: 9.02
<b>Key to abbreviations</b>	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

<b>Indicates information that has changed from previously issued version.</b>
<b>Notice to reader</b>

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.	
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ARTWORK | MATERIALS AND MAINTENANCE



Safety Data Sheet - Original Gorilla Glue

Date Revised: 03/22/2017

Date Issued: 05/21/2015

Version: 1.3

FOR CHEMICAL EMERGENCY:


During Business Hours: (800) 966-3458 | Outside Business Hours: (800) 420-7186

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: IDENTIFICATION

**Product Identifier**  
Product Name: Original Gorilla Glue  
Synonyms: Polyurethane Adhesive  
**Intended Use of the Product**  
Consumer Adhesives for building, carpentry, or hobby projects.  
**Name, Address, and Telephone of the Responsible Party**  
**Company**  
The Gorilla Glue Company  
2101 E. Kemper Road  
Cincinnati, Ohio 45241  
513-271-3300  
[www.gorillatough.com](http://www.gorillatough.com)  
**Emergency Telephone Number**  
Emergency number : 1-800-420-7186 (Prosar)

SECTION 2: HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture**  
**Classification (GHS-US)**  
Acute Tox. 4 (Inhalation:dust,mist) H332  
Skin Irrit. 2 H315  
Eye Irrit. 2B H320  
Resp. Sens. 1 H334  
Skin Sens. 1 H317  
STOT SE 3 H335  
STOT RE 1 H372  
Full text of H-phrases: see section 16  
**Label Elements**  
**GHS-US Labeling**  
**Hazard Pictograms (GHS-US)** :   
**Signal Word (GHS-US)** : Danger  
**Hazard Statements (GHS-US)** :  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H320 - Causes eye irritation.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
**Precautionary Statements (GHS-US)** :  
P260 - Do not breathe vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P284 - [In case of inadequate ventilation] wear respiratory protection.



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P302+P352 - If on skin: Wash with plenty of water.  
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a poison center or doctor if you feel unwell.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Other Hazards**  
Other Hazards: May cause gastro-intestinal blockage if swallowed. Seek medical advice immediately. Contains isocyanates. May produce an allergic reaction.  
**Unknown Acute Toxicity (GHS-US)** Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture			
Name	Product Identifier	% (w/w)	Classification (GHS-US)
Polyisocyanate Prepolymer based on MDI	[CAS No] 67815-87-6	40 - 70	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 1, H372
Polymeric Diphenylmethane Diisocyanate (pMDI)	[CAS No] 9016-87-9	10 - 30	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 1, H372
4,4'-Diphenylmethane diisocyanate	[CAS No] 101-68-8	15 - 25	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
Diphenylmethane Diisocyanate (MDI) Mixed Isomers	[CAS No] 26447-40-5	1 - 5	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335



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Additive	(CAS No) Trade Secret	<0.5	STOT RE 1, H372 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 STOT SE 3, H335
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Full text of H-phrases: see section 16  
**SECTION 4: FIRST AID MEASURES**  
**Description of First Aid Measures**  
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).  
**Inhalation:** Using proper respiratory protection, immediately move the exposed person to fresh air. Seek medical attention immediately.  
**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.  
**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.  
**Ingestion:** Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
**Most Important Symptoms and Effects Both Acute and Delayed**  
General: Irritation to eyes, skin and respiratory tract. Exposure may produce an allergic reaction. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing.  
**Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.  
**Skin Contact:** Causes skin irritation. Exposure may produce an allergic reaction.  
**Eye Contact:** Causes eye irritation.  
**Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause gastro-intestinal blockage if swallowed.  
**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.  
**Indication of Any Immediate Medical Attention and Special Treatment Needed**  
If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media**  
Suitable Extinguishing Media: Carbon dioxide, dry powder, and foam. In cases of large scale fires, alcohol-resistant foams are preferred. If water is used, it should be used in very large quantities. The reaction between water and isocyanate may be vigorous.  
**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.  
**Special Hazards Arising From the Substance or Mixture**  
**Fire Hazard:** Not flammable.  
**Explosion Hazard:** Product is not explosive.  
**Reactivity:** Exothermic reaction with amines and alcohols; reacts with water forming heat, CO<sub>2</sub>, and insoluble polyurea. The combined effect of CO<sub>2</sub> and heat can produce enough pressure to rupture a closed container.  
**Advice for Firefighters**  
**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.  
**Firefighting Instructions:** Do not allow run-off from fire fighting to enter drains or water courses.  
**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.  
**Hazardous Combustion Products:** Fire will produce dense black smoke. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds.



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**Reference to Other Sections**  
Refer to section 9 for flammability properties.  
**SECTION 6: ACCIDENTAL RELEASE MEASURES**  
**Personal Precautions, Protective Equipment and Emergency Procedures**  
General Measures: Do not get in eyes, on skin, or on clothing.  
**For Non-Emergency Personnel**  
**Protective Equipment:** Use appropriate personal protection equipment (PPE).  
**Emergency Procedures:** Evacuate unnecessary personnel.  
**For Emergency Personnel**  
**Protective Equipment:** Equip cleanup crew with proper protection.  
**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.  
**Environmental Precautions**  
Prevent entry to sewers and public waters.  
**Methods and Material for Containment and Cleaning Up**  
**For Containment:** Absorb and/or contain spill with inert material, then place in suitable container.  
**Methods for Cleaning Up:** Remove mechanically; cover remainders with wet absorbent material (e. g. sand, earth, sawdust). After approx. 15 min. transfer to waste container and do not seal (evolution of CO<sub>2</sub>). Keep damp in a safe ventilated area for several days. Clean up spills immediately and dispose of waste safely.  
**Reference to Other Sections**  
See heading 8. Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling**  
**Additional Hazards When Processed:** Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating.  
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.  
**Conditions for Safe Storage, Including Any Incompatibilities**  
**Storage Conditions:** Store in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep product away from sources of alcohol, amines, or other materials that react with isocyanates. Keep out of reach of children and animals. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.  
**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Alcohols. Copper and its alloys. Water.  
**Storage Temperature:** 18 - 30 °C (64.4 - 86 °F)  
**Specific End Use(s)**  
Consumer Adhesives for building, carpentry, or hobby projects.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**  
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.



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Polymeric Diphenylmethane Diisocyanate (pMDI) [9016-87-9]			
Alberta	OEL TWA (mg/m <sup>3</sup> )		0.07 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)		0.005 ppm
4,4'-Methylenediphenyl diisocyanate [101-68-8]			
USA ACGIH	ACGIH TWA (ppm)		0.005 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (ppm)		0.02 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )		0.05 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)		0.005 ppm
USA NIOSH	NIOSH REL (Ceiling) (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (Ceiling) (ppm)		0.020 ppm
USA IDLH	US IDLH (mg/m <sup>3</sup> )		75 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )		0.05 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)		0.005 ppm
British Columbia	OEL Ceiling (ppm)		0.01 ppm
British Columbia	OEL TWA (ppm)		0.005 ppm
Manitoba	OEL TWA (ppm)		0.005 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )		0.051 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)		0.005 ppm
Newfoundland & Labrador	OEL TWA (ppm)		0.005 ppm
Nova Scotia	OEL TWA (ppm)		0.005 ppm
Ontario	OEL Ceiling (ppm)		0.02 ppm (designated substances regulation)
Ontario	OEL TWA (ppm)		0.005 ppm (designated substances regulation) 0.005 ppm (applies to workplaces to which the designated substances regulation does not apply)
Prince Edward Island	OEL TWA (ppm)		0.005 ppm
Québec	VEMP (mg/m <sup>3</sup> )		0.051 mg/m <sup>3</sup>
Québec	VEMP (ppm)		0.005 ppm
Saskatchewan	OEL STEL (ppm)		0.015 ppm
Saskatchewan	OEL TWA (ppm)		0.005 ppm
Yukon	OEL Ceiling (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup>
Yukon	OEL Ceiling (ppm)		0.02 ppm
Diphenylmethane Diisocyanate (MDI) Mixed Isomers [26447-40-5]			
Mexico	OEL TWA (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup> 0.051 mg/m <sup>3</sup>
Mexico	OEL TWA (ppm)		0.02 ppm 0.005 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (ppm)		0.02 ppm
Nunavut	OEL Ceiling (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup>
Nunavut	OEL Ceiling (ppm)		0.02 ppm
Northwest Territories	OEL Ceiling (mg/m <sup>3</sup> )		0.2 mg/m <sup>3</sup>
Northwest Territories	OEL Ceiling (ppm)		0.02 ppm

**Exposure Controls**  
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Ensure all national/local regulations are observed.



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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations


**Personal Protective Equipment:** Protective clothing. Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.  
  
**Materials for Protective Clothing:** Chemically resistant materials and fabrics.  
**Hand Protection:** Wear chemically resistant protective gloves.  
**Eye Protection:** Chemical goggles or safety glasses.  
**Skin and Body Protection:** Wear suitable protective clothing.  
**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.  
**Other Information:** When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**  
**Physical State** : Liquid  
**Appearance** : Brown  
**Odor** : Earthy, musty  
**Odor Threshold** : Not available  
**pH** : Not available  
**Evaporation Rate** : Not available  
**Melting Point** : 0 °C (Calculated) (32 °F)  
**Freezing Point** : Not available  
**Boiling Point** : 208 °C (406.4 °F)  
**Flash Point** : > 205 °C (> 401 °F) (Pensky-Martens Closed Cup (ASTM D-93))  
**Auto-ignition Temperature** : Not available  
**Decomposition Temperature** : Polymerizes at about 200 °C with evolution of CO<sub>2</sub>  
**Flammability (solid, gas)** : Not available  
**Lower Flammable Limit** : Not available  
**Upper Flammable Limit** : Not available  
**Vapor Pressure** : < 0.0001 mm Hg @ 25 °C (77 °F)  
**Relative Vapor Density at 20 °C** : Not available  
**Density** : Not available  
**Specific Gravity** : 1.138 g/cm<sup>3</sup> @ 20 °C (68 °F)  
1.137 @ 25 °C (77 °F)  
**Solubility** : Insoluble in water.  
**Partition Coefficient: N-Octanol/Water** : Not available  
**Viscosity** : Not available  
**Explosion Data – Sensitivity to Mechanical Impact** : Not expected to present an explosion hazard due to mechanical impact.  
**Explosion Data – Sensitivity to Static Discharge** : Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Exothermic reaction with amines and alcohols; reacts with water forming heat, CO<sub>2</sub>, and insoluble polyurea. The combined effect of CO<sub>2</sub> and heat can produce enough pressure to rupture a closed container.  
**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).  
**Possibility of Hazardous Reactions:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C) may cause polymerization.



Safety Data Sheet - Original Gorilla Glue

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Date Issued: 05/21/2015

Version: 1.3

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**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.  
**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Alcohols. Copper and its alloys. Amines. Water.  
**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds. Isocyanates. Fire will produce dense black smoke.  
**SECTION 11: TOXICOLOGICAL INFORMATION**  
**Information on Toxicological Effects - Product**  
**Acute Toxicity:** Based on polymeric MDI  
**LD50 and LC50 Data:**  


Original Gorilla Glue	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 9400 mg/kg (OECD Test Guideline 402)
LC50 Inhalation Rat	0.49 mg/l/4h
ATE US (vapors)	0.49 mg/l/4h
ATE US (dust, mist)	0.49 mg/l/4h

**Additional information**  
Toxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers). For inhalation, the test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of evidence, a modified classification for acute inhalation toxicity is justified.

**Skin Corrosion/Irritation:** Causes skin irritation. (Rabbit, slightly irritating)  
**Serious Eye Damage/Irritation:** Causes eye irritation.  
**Respiratory or Skin Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  
**Germ Cell Mutagenicity:** Not classified (Genetic Toxicity in Vitro: Bacterial - gene mutation assay: negative (Salmonella typhimurium, Metabolic Activation: with/without))  
**Teratogenicity:** Rat, female, inhalation, gestation days 6-15, 6 hrs/day, NOAEL (teratogenicity): 12 mg/m<sup>3</sup>, NOAEL (maternal) 4 mg/m<sup>3</sup>. No teratogenic effects observed at doses tested. Fetotoxicity seen only with maternal toxicity.  
**Carcinogenicity:** Not classified  
**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs through prolonged or repeated exposure.  
**Reproductive Toxicity:** Not classified  
**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.  
**Aspiration Hazard:** Not classified  
**Symptoms/Injuries After Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.  
**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Exposure may produce an allergic reaction.  
**Symptoms/Injuries After Eye Contact:** Causes eye irritation.  
**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause gastro-intestinal blockage if swallowed.  
**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

Original Gorilla Glue		
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	1 mg/m <sup>3</sup> (6hrs/day 5 days/week)	Irritation to lungs and nasal cavity.
NOAEL (inhalation, rat, dust/mist/fume, 2 years)	0.2 (6 hrs/day 5 days/week)	Irritation to lungs and nasal cavity

**Information on Toxicological Effects - Ingredient(s)**  
**LD50 and LC50 Data:**



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Polyisocyanate Prepolymer based on MDI [67815-87-6]	
Same as Original Gorilla Glue. See above.	
Polymeric Diphenylmethane Diisocyanate (pMDI) [9016-87-9]	
Same as Original Gorilla Glue. See above.	
4,4'-Diphenylmethane diisocyanate [101-68-8]	
LD50 Oral Rat	7616 mg/kg
LD50 Dermal Rabbit	> 9400 mg/kg
LC50 Inhalation Rat	0.368 mg/l/4h
Additional information	
For inhalation, the test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of evidence, a modified classification for acute inhalation toxicity is justified	
Diphenylmethane Diisocyanate (MDI) Mixed Isomers [26447-40-5]	
Same as Original Gorilla Glue. See above.	
Additive (Trade Secret)	
LD50 Oral Rat	2200 mg/kg
LD50 Dermal Rabbit	1410 mg/kg
Polymeric Diphenylmethane Diisocyanate (pMDI) [9016-87-9]	
IARC Group	3
Polymeric Diphenylmethane Diisocyanate (pMDI) [9016-87-9]	
IARC Group	3
Diphenylmethane Diisocyanate (MDI) Mixed Isomers [26447-40-5]	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**  
**Ecology - General:** Ecotoxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers).  
**Toxicity to Fish**  

LC0 (Canio rerio (zebra fish))	> 1000 mg/l, 96 h
LC0 (Oryzias latipes (Orange-red killifish))	> 3000 mg/l, 96 h

**Toxicity to Aquatic Invertebrates**  

EC50 (Water flea (daphnia magna))	> 1000 mg/l, 24 h
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**Toxicity to Aquatic Plants**  

NOEC	1640 mg/l, End Point: growth (Green algae (Scenedesmus subspicatus), 72 h)
------	--

**Toxicity to Microorganisms**  

EC50 (activated sludge)	> 100 mg/l, 3 h
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**4,4'-Diphenylmethane diisocyanate [101-68-8]**  
**Toxicity to Fish**  


LC50 (Zebra fish (Brachydanio rerio))	> 500 mg/l, 24 h
---------------------------------------	------------------

**Toxicity to Aquatic Invertebrates**  

EC50 (Water flea (daphnia magna))	> 500 mg/l, 24 h
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FORTSON SQUARE WELCOME FIGURE ARTWORK CONCEPT PROPOSAL





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Additive	
Toxicity to Fish	
LC50 (Fathead minnow (Pimephales promelas))	134 mg/l, 96 h
Persistence and Degradability	
Original Gorilla Glue	
Persistence and Degradability	Biodegradation for this product was 0%, exposure time: 28 days, i.e. not degradable.
Biodegradation	0 % after 28 days
Bioaccumulative Potential	
Original Gorilla Glue	
BCF fish 1	< 1 Oncorhynchus mykiss (rainbow trout), Exposure time: 112 d (does not bioaccumulate)
Mobility in Soil	Not available
Other Adverse Effects	
Other Information:	Avoid release to the environment.
SECTION 13: DISPOSAL CONSIDERATIONS	
Sewage Disposal Recommendations:	Do not dispose of waste into sewer.
Waste Disposal Recommendations:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
SECTION 14: TRANSPORT INFORMATION	
In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
In Accordance with TDG	Not regulated for transport
SECTION 15: REGULATORY INFORMATION	
US Federal Regulations	
Original Gorilla Glue	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Polyisocyanate Prepolymer based on MDI (67815-87-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %
4,4'-Diphenylmethane diisocyanate (101-68-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %
Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
US State Regulations	
Original Gorilla Glue	
State or local regulations	
This product contains a trace (ppm) amount of phenyl isocyanate (CAS # 103-71-9) and monochlorobenzene (CAS # 108-90-7) as impurities. California Prop 65: Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.	
Weight %	Component CAS #

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<1 ppm	Acetaldehyde	75-07-0
1-5 ppm	Furan	110-00-9
<1 ppm	Propylene Oxide	75-56-9
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)		
U.S. - New Jersey - Right to Know Hazardous Substance List		
4,4'-Methylenediphenyl diisocyanate (101-68-8)		
U.S. - Massachusetts - Right To Know List		
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
U.S. - Pennsylvania - RTK (Right to Know) List		
Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)		
U.S. - Massachusetts - Right To Know List		
U.S. - New Jersey - Right to Know Hazardous Substance List		
Canadian Regulations		
Original Gorilla Glue		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Polyisocyanate Prepolymer based on MDI (67815-87-6)		
Listed on the Canadian DSL (Domestic Substances List)		
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
4,4'-Methylenediphenyl diisocyanate (101-68-8)		
Listed on the Canadian DSL (Domestic Substances List)		
Listed on the Canadian IDL (Ingredient Disclosure List)		
IDL Concentration 0.1 %		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	: 03/22/2017
Other information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

Party Responsible for the Preparation of This Document  
The Gorilla Glue Company  
+1 513-271-3300

The information presented in this Safety Data Sheet was prepared by qualified personnel and to the best of our knowledge is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. This data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which The Gorilla Glue Company assumes legal responsibility. The data is submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.

Original Gorilla Glue SDSPage 11 of 11

## ABR PRODUCT SPECIFICATIONS



### PRODUCT NAME

X-100 Natural Seal® Wood Protective Coating

MANUFACTURER  
American Building Restoration Products, Inc.  
9720 South 60th Street  
Franklin, WI 53132  
(414) 421-4125  
1-800-346-7532 (Orders Only)  
Fax (414) 421-8696  
[www.abrp.com](http://www.abrp.com)

PRODUCT DESCRIPTION  
X-100 Natural Seal® Wood Protective Coating formula is an oil based protective coating consisting of essential wood protecting ingredients. X-100 Natural Seal® Wood Protective Coating is designed to penetrate the wood, protecting against cracking, splitting, cupping, curling, sap stain, mold and mildew and against the environmental forces of wind, rain, snow, ice and sun.

X-100 Natural Seal® Wood Protective Coating is for use on all wood surfaces including cedar, redwood, pine, plywood, T1-11, cypress, fir, dimensional lumber, siding, decking, logs and roofs. X-100 Natural Seal® Wood Protective Coating is available in transparent and semi-transparent stains. This transparent technology enables the natural wood grain to show through allowing for a natural wood finish.

TECHNICAL DATA  
Coverage: Sidewalls: smooth or rough sawn lumber including logs, first coat 100 sq. ft. per gallon. Second coat 200 sq. ft. per gallon.  
Roofs: 75-150 sq. ft. per gallon, depending on porosity of surface.  
VOC content limit: less than 250 grams per liter VOC (2.89 lbs. per gallon).  
Packaging: one, five and fifty-five gallon containers.

PROPER SURFACE PREPARATION  
To achieve the maximum effectiveness of this product the surface must be cleaned of dirt, mildew, loose wood fibers, chalky residue, foreign matter and must be dry.

NEW WOOD  
Surface must be dry with moisture below 15%. Remove mill glaze/shiny lumber, tannic acid bleed, rust stains from fasteners, weathered grey and dirty wood with X-180 Weathered Wood Restorer™.

EXISTING COATING (other than X-100 finishes)  
Strip the existing finish with Super Bio Strip™ or other, appropriate ABRP, Inc. coatings remover.  
Note: Before beginning removal process test to determine removal product suitability, dwell time and dilution ratio if applicable. Clean with X-180 Weathered Wood Restorer™ or other, appropriate ABRP, Inc. coatings remover. Failure to remove the existing coating will cause unsatisfactory finish results. Removal of the existing coating by methods other than what is specified may produce unsatisfactory finish results.

DIRECTIONS FOR USE  
Mix X-100 Natural Seal® Wood Protective Coating well before using. A test area should be performed before beginning overall project to determine the amount of X-100 Natural Seal® Wood Protective Coating the wood will absorb, dry time, wood porosity and total desired look. Fully protect all adjacent surfaces, as well as general work areas. When spraying near vegetation, cover plant life with cardboard or other suitable material in case of overspray.

FOR BEST RESULTS AND OPTIMAL PENETRATION: APPLY TO DRY WOOD. DO NOT APPLY IF RAIN IS IMMINENTLY FORECASTED. BOTH SURFACE AND AIR TEMPERATURE MUST BE ABOVE 50°F.

For lumber that is not dried or seasoned: X-100 Natural Seal® Wood Protective Coating is formulated to protect damp wood. However, the duration of protection will be in direct relationship to how much X-100 Natural Seal® Wood Protective Coating the wood will absorb.

Helpful Hints: For further protection, apply X-100 Natural Seal® Wood Protective Coating on all sides of the wood. If the application has to be interrupted, stop at a corner as opposed to the middle of the wall.

APPLICATION  
1. Apply X-100 Natural Seal® Wood Protective Coating with a brush, or low pressure sprayer. If using a low pressure sprayer always back brush into surface. Work vigorously into all surfaces.  
2. Apply as much X-100 Natural Seal® Wood Protective Coating as the wood will absorb.  
Note: If after a 12 hour period the surface remains oily, over-application has occurred. Use ABRP® Deck & Siding Wash to remove the excess finish. Failure to do so in a timely manner will result in unsatisfactory performance of the finish.

3. To avoid runs and streaking, X-100 Natural Seal® Wood Protective Coating is limited solely to the following warranty from ABRP, Inc.: If the product herein is shown to be defective, ABRP, Inc., at its option, will either replace the product or refund the purchase price. Contact ABRP, Inc., to make claim under this warranty. The purchaser must have proof of purchase from the label and the original sales receipt. Proper surface preparation is essential to the product's performance and is a necessary prerequisite for triggering ABRP, Inc.'s obligation under this warranty. Read and follow label directions and observe all safety precautions in the use of this product. ABRP, Inc., further disclaims, and shall not be liable for, incidental, consequential or indirect damage and/or personal injuries including death arising from the use of this product or the cost of labor involved in its application or any re-application of product that is replaced. SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE USE OF THIS PRODUCT OTHER THAN INDICATED ON THE LABEL. BUYER ASSUMES ALL RISK OF USE AND/OR HANDLING OF THIS MATERIAL WHEN SUCH USE AND/OR HANDLING IS CONTRARY TO LABEL INSTRUCTIONS. NO OTHER WARRANTIES ARE MADE, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN ALL EVENTS, ABRP, INC.'S LIABILITY SHALL BE LIMITED SOLELY TO REPLACEMENT OF THE PRODUCT PROVIDED ABOVE. This limited warranty may not be modified or extended by manufacturer's representatives, distributors or dealers of ABRP, Inc., products. This warranty gives the purchaser specific legal rights, as well as rights which may vary from state to state. ABRP, Inc. specifically disclaims any and all other obligations or liability to any party relative to the sale, use or application of its products.

## ABR PRODUCT SPECIFICATIONS

Wood Protective Coating at a later date.

DRY TIME: Allow at least 24 hours to dry.

CLEAN UP: Use mineral spirits or dish detergent and water. If X-100 Natural Seal® Wood Protective Coating should get on surfaces such as glass, paint, metal, caulking or rubber, remove immediately with dish detergent. If a spill is dry, clean with mineral spirits.

AVAILABILITY  
Available through distributors and dealers across the United States and Canada. NOTICE: the information and recommendations made herein are based on ABRP, Inc. research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made. Because ABRP, Inc., cannot anticipate every possible application of ABRP, Inc., products, nor anticipate every variation encountered in project surfaces, job conditions, and methods used. For this reason, purchasers shall make their own tests to determine the suitability of such products for a particular purpose. Purchasers assume all risk of use, application and handling of products. Statements concerning the possible use of ABRP, Inc., products are not intended as recommendation to use ABRP, Inc. products in the infringement of any patent.

LIMITED WARRANTY  
This warranty is valid for one year from the date of product purchase. Purchaser's back brush product from surfaces before drying. Rough sawn wood will generally absorb more product evenly; however, it will still require back brushing.  
4. Keep a wet edge to avoid lap marks.  
5. If the wood can absorb more X-100 Natural Seal® Wood Protective Coating and extra protection or more depth of color is desired, apply an additional coat of X-100 Natural Seal®

precautions in the use of this product. ABRP, Inc., further disclaims, and shall not be liable for, incidental, consequential or indirect damage and/or personal injuries including death arising from the use of this product or the cost of labor involved in its application or any re-application of product that is replaced. SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE USE OF THIS PRODUCT OTHER THAN INDICATED ON THE LABEL. BUYER ASSUMES ALL RISK OF USE AND/OR HANDLING OF THIS MATERIAL WHEN SUCH USE AND/OR HANDLING IS CONTRARY TO LABEL INSTRUCTIONS. NO OTHER WARRANTIES ARE MADE, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN ALL EVENTS, ABRP, INC.'S LIABILITY SHALL BE LIMITED SOLELY TO REPLACEMENT OF THE PRODUCT PROVIDED ABOVE. This limited warranty may not be modified or extended by manufacturer's representatives, distributors or dealers of ABRP, Inc., products. This warranty gives the purchaser specific legal rights, as well as rights which may vary from state to state. ABRP, Inc. specifically disclaims any and all other obligations or liability to any party relative to the sale, use or application of its products.

TECHNICAL SERVICES  
ABRP, Inc., employs in-field technical representatives to answer questions for architects, building owners and contractors.

REFERENCING  
Catalog, product specifications, brochures, list of national registered historical landmarks restored with over the past 45 years ABRP, Inc., products and video training tapes demonstrating a variety of cleaning and restoration projects being performed with ABRP, Inc. products are available upon request. For more information on many of the specialty building restoration products available to you, please see our home page at <http://www.abrp.com> or e-mail ABRP, Inc. at [info@abrp.com](mailto:info@abrp.com)

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4/20/2021 Pioneer Square will be home to a towering welcome figure. Meet the Native artist who will carve it | The Seattle Times

Visual Arts  
The Seattle Times

Pioneer Square will be home to a towering welcome figure. Meet the Native artist who will carve it

Nov 5, 2020 at 6:00 am



Carver Andrea Wilbur-Sigo at work. The artist is in the process of designing a welcome figure to accompany a new mixed-use building in downtown Seattle that will include... (Florence Sigo) More

By Megan Burbank  
Seattle Times features reporter

Pioneer Square, once an important fishing site for Coast Salish tribes, will next year welcome a new mixed-use building including seven floors of affordable housing for Native Americans, and a towering welcome figure to be designed by Squaxin Island Tribe member [Andrea Wilbur-Sigo](#).

The mixed-use development, [Tal?al](#), will also have gallery space and a clinic, and art from Native artists throughout the country. Upon its completion, the space will house \$850,000 in Native-made art.

Artist and carver Wilbur-Sigo's welcome figure is currently in progress, as she makes design choices and sources materials. But her concept has been clear from the

<https://www.seattletimes.com/archive/local/visual-arts/pioneer-square-will-be-home-to-a-towering-welcome-figure-meet-the-native-artist-who-will-carve-it/> 1/4

4/20/2021 Pioneer Square will be home to a towering welcome figure. Meet the Native artist who will carve it | The Seattle Times

beginning.

"When I found out about the opportunity, and that I was going to be interviewed for it, of course, I immediately got excited and started thinking, and when I did find out I actually got the job to do it, all I could think about is a very large woman welcome figure," she said.

How large? Twenty-five feet tall, said Wilbur-Sigo. The base will be about 4 feet across.

"And because she's so large, she's going to have a shoulder span of approximately 7 feet," said the artist. "It's huge. I mean, huge, huge ... her shoulders and her arms will be actually put on separately, because there's no way you can find a log that big."



A computer-generated rendering of the mixed-use development, [Tal?al](#), coming to Pioneer Square in 2021. The welcome figure in the rendering is based on a piece by Shajun... (Nylons Workshop) More

Wilbur-Sigo's welcome figure will reflect the roots and stories of the Coast Salish people, "but at the same time, bring a new story to her."

To source logs, the carver has been "on the phone nonstop with the mills since the minute they said it's a go." Another tribe is also helping her look.

Wilbur-Sigo anticipates joining four separate logs together. Though she initially hoped to use a single log for the project, it is challenging to source one large enough to fit the scale of the project. "These are the things that we have to deal with now that we once didn't have to," she said. "And so it only shows that we as people have adapted and are

<https://www.seattletimes.com/archive/local/visual-arts/pioneer-square-will-be-home-to-a-towering-welcome-figure-meet-the-native-artist-who-will-carve-it/> 2/4

4/20/2021 Pioneer Square will be home to a towering welcome figure. Meet the Native artist who will carve it | The Seattle Times

continuing to adapt to new ideas, new ways of doing things, and proof that we're just a living culture that continues to grow."

Once complete, it will be well worth it. "She's going to be absolutely stunning," the carver said.

Adaptation is something Wilbur-Sigo is used to when it comes to her work. "I always tell people, somebody documented somewhere along the line that women didn't carve," she said. "I come from very stubborn women. I know that somewhere along there, I had probably a grandma that was a carver. I may not be able to document it. But also, I know what's in me. I watch my kids, I watch myself, I watch my family, and I'm like, nope, nope ... our entire family thinks outside the box. That's what we do."

Wilbur-Sigo grew up in a family of artists, and is currently raising one of her own. She's been able to trace her family's carving lineage back nine generations. Both her grandfathers were carvers. Her father, she said, has been carving full time for about 40 years, and she recalled her mother's projects as a seamstress when Wilbur-Sigo was a young child. "She designed puppets that went along with all of our legends," said Wilbur-Sigo.

Then, when Wilbur-Sigo was about 14 years old, she said, her mother suffered an injury that would lead her to carving, too. "Us kids were cooking fry bread and it caught on fire," said Wilbur-Sigo, "so she took the pan to go outside" and "they wanted to amputate her hand because the burn was so bad. And she said 'I can't, I'm an artist.' And so she started carving, because you have to grip your knife ... she'd already been carving prior to that but that's when she actually started really carving and never has quit."

Carving allowed Wilbur-Sigo's mother to exercise her hand enough that she was able to keep it.

Wilbur-Sigo herself did beadwork as a child, starting from age 3, and was selling her work by age 8. She recalled exhibiting her work at The Evergreen State College. At 13, she did her first carving project with her father.

Welcome figures like the one she is constructing are often human forms with arms outstretched in welcome, "made to overlook, protect its surrounding areas," said Wilbur-Sigo.

<https://www.seattletimes.com/archive/local/visual-arts/pioneer-square-will-be-home-to-a-towering-welcome-figure-meet-the-native-artist-who-will-carve-it/> 3/4

4/20/2021 Pioneer Square will be home to a towering welcome figure. Meet the Native artist who will carve it | The Seattle Times

Welcome figures also shouldn't be confused with story poles or totem poles, said Wilbur-Sigo. Though you may see totem poles around Seattle, they are a tradition of northern tribes in what is now Canada and Alaska — beautiful, said Wilbur-Sigo, but "it's not from here."

But, she said, art can help educate people about the provenance of these objects and ideas. "[W]hen I say educate, it's just letting people know, this is who we are. This is what we do. And this is what represents us, not that totem that's down in Pike Place or wherever," she said. "This is who we are, and it's so exciting to see it happen, because 20 years ago, the galleries were not ready for this ... they told me, 'Coast Salish art is ... not sellable.'"

Wilbur-Sigo hopes that her work will fill in knowledge gaps about Washington's Coast Salish people, and that it can be a unifying force.

"With everything going on, I hope that just brings people together," she said. "You know, that's what it's meant to do."

She also sees her work as a way of telling stories for future generations. Wilbur-Sigo notes that like her ancestors, her children are all artists, too.

"In just the last 12 months, look at all the change that we all went through," she said. "Fifty years from now my grandkids are going to need to know a story of what happened today, and this is exactly what I'm trying to do, is tell the story of not only our past, not only our present, but then there'll be future stories, too."

**Megan Burbank:** [mburbank@seattletimes.com](mailto:mburbank@seattletimes.com); on Twitter: [@meganireneh](https://twitter.com/meganireneh). Megan Burbank is a features reporter at The Seattle Times.

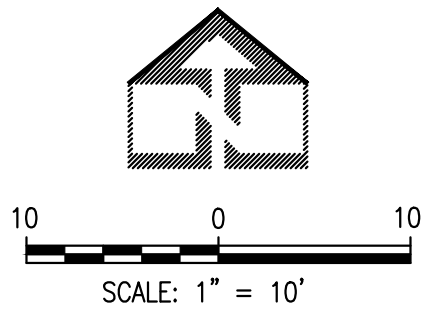
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<https://www.seattletimes.com/archive/local/visual-arts/pioneer-square-will-be-home-to-a-towering-welcome-figure-meet-the-native-artist-who-will-carve-it/> 4/4



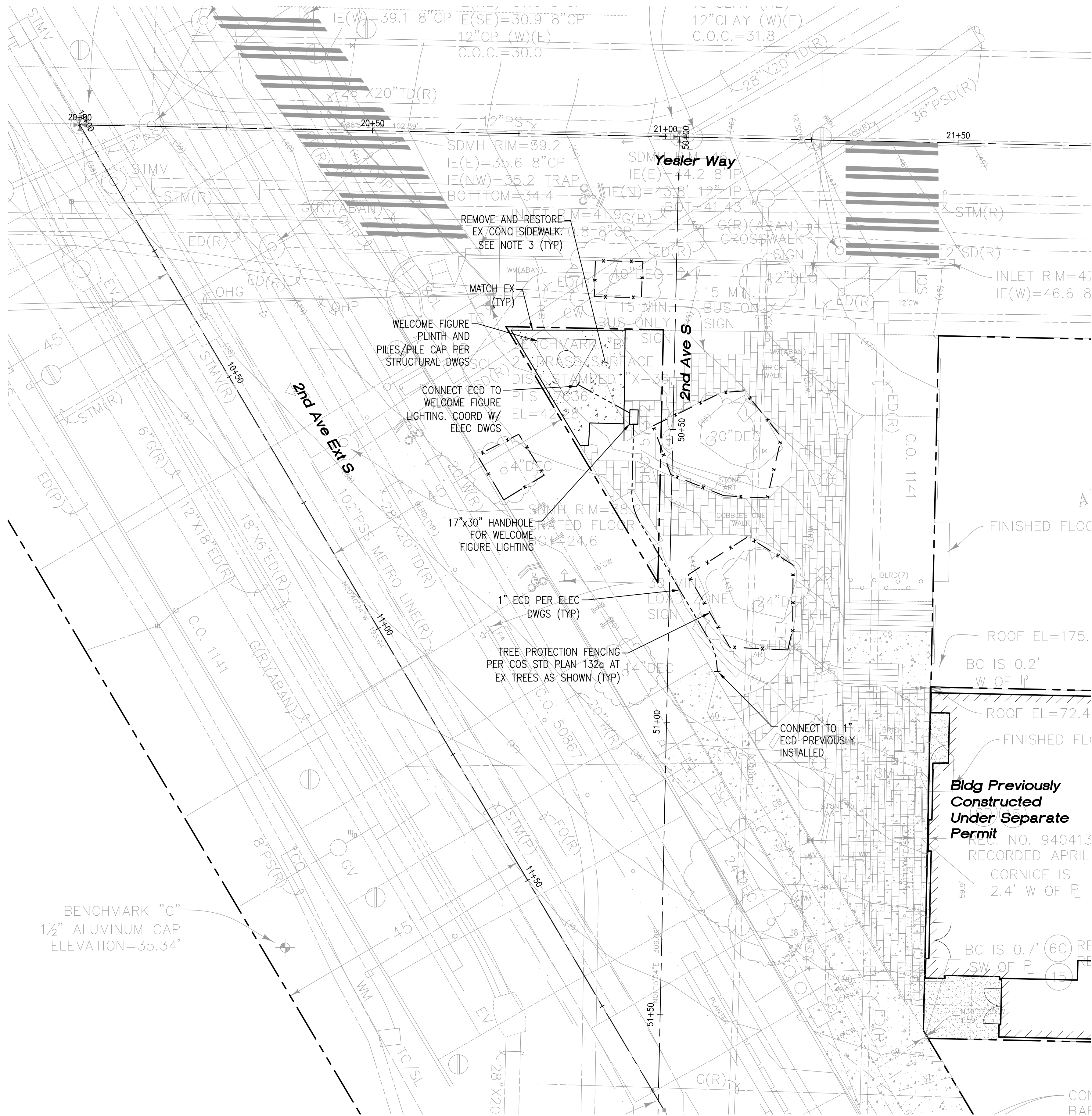




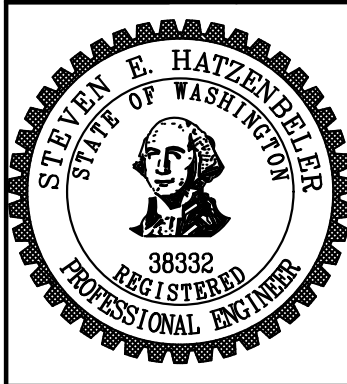


**Datum**  
NAVD 88 – SEE SITE SURVEY FOR BENCHMARK AND ADDITIONAL INFORMATION.

- Notes**
1. SEE SHEET 1 FOR GENERAL NOTES.
  2. SEE SHEET 2 FOR SURVEY CONTROL.
  3. REMOVE EX IMPROVEMENTS AS REQUIRED FOR NEW CONSTRUCTION.
  4. RESTORE UTILITY CUTS IN THE RIGHT OF WAY PER SDOT DIRECTORS RULE 01-2017. COORDINATE WITH SDOT AS REQUIRED AND PAY ALL COSTS FOR RESTORATION.




DATE	MARK	NATURE	REVISIONS
			MADE CHKD REVD



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	DESIGNED . SEH 12/02/21	CHECKED . SEH 12/02/21
DRAWN	SEH 12/02/21	CHECKED . SEH 12/02/21
DESIGN REVIEW		

INITIALS AND DATE	REVIEWED: .....
PROJECT MANAGER	
REVISED AS-BUILT.....	



**City of Seattle**  
**Seattle Department**  
**of Transportation**

WORK ORDER NO: –  
PERMIT NO: –  
SCALE: H: 1"=10' V: 1"=5'

SPU NO. –  
APPROVED  
INSPECTOR'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURE

SDCI PROJECT #: N/A

108 2ND AVE S  
SIDEWALK PLAN  
EXT 2ND AVE S

SDOT PROJECT NO. SUSIP-----
VAULT PLAN NO. ---
VAULT SERIAL NO. ---
SHEET 3 OF X

60% SIP SUBMISSION – 12/7/21



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. 2018 SEATTLE BUILDING CODE & REFERENCED STANDARDS

B. THESE DRAWINGS AND SPECIFICATIONS
2. THE STRUCTURE SHOWN IN THESE DRAWINGS HAS BEEN DESIGNED FOR:

A. THE SELF WEIGHT OF THE SCULPTURE

B. SEISMIC EFFECTS PER CHAPTER 15 OF ASCE 7-16

C. WIND LOAD EFFECTS PER CHAPTER 29 OF ASCE 7-16
3. SEISMIC DESIGN PARAMETERS:

SEISMIC IMPORTANCE FACTOR (Ie)1.0

SITE CLASSD (DEFAULT)

MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)1.408

MAPPED SPECTRAL RESPONSE ACCELERATION (S1)0.491

SPECTRAL RESPONSE COEFFICIENT (Sds)1.126

SPECTRAL RESPONSE COEFFICIENT (Sd1)NA

ANALYSIS PROCEDUREEQUIVALENT LATERAL FORCE ANALYSIS

STRUCTURE TYPESIMILAR TO A WOOD POLE TOWER

DESIGN PARAMETERSR = 1.5, Cd = 1.5, OMEGA = 1.5
4. WIND DESIGN PARAMETERS:

STRUCTURE CLASSSIMILAR TO A HEXAGONAL CHIMNEY

RISK CATEGORYII

BASIC WIND SPEED98 MPH

EXPOSURE CATEGORYB

MEAN HEIGHT24 FT

VELOCITY PRESSURE (qz)15.2 PSF

GUST FACTOR0.85

DRAG COEFFECIENT1.2

DESIGN PRESSURE16 PSF
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND PROPOSED DIMENSIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REVIEW AND COMPARE THE STRUCTURAL DRAWINGS TO THE ACTUAL DIMENSIONS OF THE SCULPTURE AND NOTIFY THE ARTIST AND ENGINEER OF ANY DISCREPANCY.
6. THE STRUCTURAL SYSTEM AS REPRESENTED IN THSESE DRAWINGS HAS BEEN DESIGNED FOR THE FINAL, INSTALLED CONFIGURATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY MEASURES NECESSARY FOR MAINTAINING THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ALL STAGES OF CONSTRUCTION AND INSTALLATION PRIOR TO THE STRUCTURE REACHING ITS FINAL CONDITION.
7. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OF THE CONSTRUCTION DOCUMENTS (ARCHITECTURAL, CIVIL, MECHANICAL AND PLUMBING DRAWINGS, PROJECT SPECIFICATION, ETC.). REFER TO ALL CONSTRUCTION DOCUMENTS FOR INFORMATION NOT SHOWN IN THE STRUCTURAL DRAWINGS.
8. ALL MANUFACTURER'S RECOMMENDATIONS FOR STRUCTURAL PRODUCTS USED FOR THIS PROJECT SHALL BE STRICTLY FOLLOWED, UNLESS NOTED OTHERWISE. ANY REQUIREMENTS INDICATED IN THE DRAWINGS SHALL BE IN ADDITION TO THE MANUFACTURER RECOMMENDATIONS, UNLESS SPECIFICALLY NOTED AS AN EXCEPTION TO, OR IN LIEU OF A SPECIFIC MANUFACTURER RECOMMENDATION.

STRUCTURAL OBSERVATION

1. THE STRUCTURAL ENGINEER SHALL PROVIDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS AT SIGNIFICANT STAGES OF CONSTRUCTION AND AT COMPLETION OF THE STRUCTURAL SYSTEM AS DEFINED IN IBC CHAPTER 17.
2. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE ANY OF THE RESPONSIBILITIES OF THE SPECIAL INSPECTOR

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER'S TESTING LAB IN ACCORDANCE WITH THE CODE AND ALL APPLICABLE LOCAL ORDINANCES, AND THE PROJECT SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR APPROVED BY THE BUILDING OFFICIAL TO PERFORM THE SPECIFIED TYPES OF INSPECTIONS AND TESTS. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, CONTRACTOR AND OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. WHEN WORK IS DONE TO THE SATISFACTION OF THE BUILDING OFFICIAL, THEN THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK WAS COMPLETED IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE PRIOR TO THE TIME THAT THE PHASE OF WORK IS APPROVED FOR OCCUPANCY
2. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS FOR THE LIST OF CONSTRUCTION ACTIVITIES REQUIRING SPECIAL INSPECTION IN ACCORDANCE WITH IBC CHAPTER 17.

SHOP DRAWINGS & SUBMITTALS

1. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARTIST AND ENGINEER BEFORE FABRICATION. ALLOW AT LEAST 5 BUSINESS DAYS FOR THE ENGINEER TO REVIEW THE SHOP DRAWINGS. ADDITIONAL TIME MAY BE REQUIRED FOR THE ARTIST TO REVIEW AND COMMENT, AND FOR REVISIONS AND RE-SUBMITTALS.
2. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH DRAWINGS, AND FOR CONFORMANCE WITH THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION PRIOR TO SUBMITTAL TO THE ARTIST.
3. ALL STRUCTURAL PRODUCTS INCLUDING GROUTS, ADHESIVES, ETC. SHALL BE SUBMITTED FOR REVIEW PRIOR TO USE. SUBMITTALS SHALL INCLUDE APPLICABLE PRODUCT LITERATURE AND ICC-ES EVALUATION REPORTS.
4. THE CONTRACTOR SHALL MAINTAIN MATERIAL VERIFICATION RECORDS OF ALL STRUCTURAL COMPONENTS AS REQUIRED BY CHAPTER 17 OF THE IBC AND PROVIDE THEM UPON REQUEST TO ODD LOT
5. SHOP DRAWINGS ARE NOT PART OF THE CONTRACT DOCUMENTS AND THEREFORE THE ARTIST/ENGINEER'S REVIEW OF SHOP DRAWINGS DOES NOT CONSTITUTE A CHANGE ORDER OR AUTHORIZATION TO DEVIATE FROM THE CONTRACT DOCUMENTS. IF DISCREPANCIES OR CONFLICTS BETWEEN THE SHOP DRAWINGS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER THE ARTIST/ENGINEER'S SHOP DRAWING REVIEW, THE CONSTRUCTION DOCUMENTS SHALL GOVERN AND BE FOLLOWED.



DRAWING LIST

SA001	GENERAL NOTES
SA002	GENERAL NOTES
SA003	GENERAL NOTES
SA004	LOADS IMPOSED
SA101	FOUNDATION PLAN
SA201	ELEVATION
SA301	CONCRETE DETAILS
SA501	STEEL DETAILS

ABBREVIATIONS

#, LB	POUND
&	AND
@	AT
~, APPROX	APPROXIMATELY
ASSY	ASSEMBLY
BOF, BOS, BOC	BOTTOM OF FOOTING, STEEL, CONCRETE
CJP	COMPLETE JOINT PENETRATION WELD
CL	CENTER LINE
CONN	CONNECTION; CONNECT; CONNECTED
CONT	CONTINUOUS
COG	CENTER OF GRAVITY
CTR	CENTER
°, DEG	DEGREE
D	DEPTH
DIA, Ø	DIAMETER
DBL	DOUBLE
EQ	EQUAL
ES	EACH SIDE
(E)	EXISTING
FTG	FOOTING
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
H	HEIGHT
HDG	HOT-DIP GALVANIZED
HSS	HOLLOW STRUCTURAL SECTION
ID	INNER DIAMETER
KIP	1,000 POUNDS
KSI	KIPS PER SQUARE INCH
L	ANGLE
LOC	LOCATION(S)
MCMC #	McMASTER CARR PART NUMBER
MPH	MILES PER HOUR
NC	NATIONAL COARSE
NF	NATIONAL FINE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTER DIAMETER
OPNG	OPENING
OPP	OPPOSITE
P	PIPE
PL	PLATE
PJP	PARTIAL JOINT PENETRATION WELD
PSF	POUNDS PER SQUARE FOOT
RECT	RECTANGLE
REQD	REQUIRED
RT	RADIOGRAPHIC TESTING
SAD	SEE ARCHITECT'S / ARTIST'S DRAWINGS
SB	SOLID BAR
SC	SLIP CRITICAL
SIM	SIMILAR
SOMD	SLAB ON METAL DECK
SPCG	SPACING
SS	STAINLESS STEEL
SSLT	SHORT SLOTTED HOLE
STIFF	STIFFENED/STIFFENER
THR'D	THREADED
TPI	THREADS PER INCH
T&B	TOP AND BOTTOM
TOF, TOS, TOC, TOP	TOP OF FOOTING, STEEL, CONCRETE, PLINTH
TS	TUBE STEEL
THK	THICK
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
(v), VIF	CONTRACTOR TO VERIFY, VERIFY IN FIELD
W	WIDTH
W/	WITH
WLL	WORKING LOAD LIMIT
WP	WORK POINT

LEGEND

	BOLT
	ELEVATION ABOVE PROJECT BASE

DEFERRED SUBMITTALS / VENDOR DESIGNED ELEMENTS

1. STRUCTURAL SYSTEMS WHICH HAVE BEEN DESIGNATED AS VENDOR-DESIGNED OR DESIGN-BUILD COMPONENTS PER THE DRAWINGS AND/OR PROJECT SPECIFICATION ARE DEFERRED SUBMITTAL COMPONENTS WHICH HAVE NOT BEEN PERMITTED UNDER THE BASE PERMIT APPLICATIONS. THE CONTRACTOR IS REQUIRED TO SUBMIT DOCUMENTS, STAMPED AND SIGNED BY A DESIGN PROFESSIONAL LICENSED IN THE STATE OF WASHINGTON, FOR ALL SUCH COMPONENTS TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE AHJ.
2. PRIOR TO SUBMITTAL TO THE AHJ, DRAWINGS AND CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF GENERAL CONFORMANCE WITH THE OVERALL DESIGN OF THE STRUCTURE.
3. DEFERRED STRUCTURAL SUBMITTAL COMPONENTS INCLUDE:

A. MICROPILES

60% SIP SUBMISSION - 12/1/2021

		REV'D
	MADE	CHK'D
	NATURE	REVISIONS
	MARK	
	DATE	



ODD lot


Architecture + Engineering

4110 Dayton Ave N

Seattle WA 98103

206.300.7261

REVIEWED BY SPU/WATER ENGINEERING	20.....	NAME OR INITIALS AND DATE	INITIALS AND DATE
REVIEWED BY SPU/DRAINAGE	20.....	DESIGNED      CB    12/02/21	REVIEWED: .....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....	CHECKED      CB    12/02/21	
		DRAWN        CB    12/01/21	PROJECT MANAGER
		CHECKED      CB    12/01/21	
		DESIGN REVIEW .....	REVISED AS-BUILT .....
		All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.	

City of Seattle

Seattle Department of Transportation

WORK ORDER NO: -

PERMIT NO: -

SCALE: H. 1 1/4"=1'

SPU NO. -

APPROVED

1 1/2"=1'

INSPECTOR'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURESDCI PROJECT #:

108 2ND AVE S  
GENERAL NOTES - S001  
EXT 2ND AVE S

SDOT PROJECT NO.
VAULT PLAN NO.
VAULT SERIAL NO.
SHEET      OF



STRUCTURAL STEEL WELDING

1. ALL WELDING SHALL BE PERFORMED BY AWS / WABO CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.
2. ALL WELDS SHALL BE MADE USING LOW-HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH EQUAL TO 70 KSI
3. FILLET WELD SIZES SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESSES.
4. WHERE FILLET WELD EFFECTIVE THROAT THICKNESS IS CALLED OUT THUS (t), THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE FILLET WELD LEG BASED ON CONNECTION GEOMETRY TO ACHIEVE THE REQUIRED EFFECTIVE THROAT.
5. FILLET WELD LENGTHS SHOWN ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT, MEMBER OR PLATE.
6. ALL GROOVE AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS, UNLESS NOTED OTHERWISE. ALL PARTIAL PENETRATION GROOVE WELD (PJP) OR PJP + FILLET SIZES SHOWN ON THE DRAWINGS THUS (t) REFER TO EFFECTIVE THROAT THICKNESS.
7. ALL WELD, TACKING AND FIT-UP PROCEDURES SHALL BE PERFORMED PER THE PREQUALIFIED WELDING PROCEDURES OF AWS D1.1. WHEN PROCEDURES NOT PREQUALIFIED UNDER AWS D1.1 ARE TO BE USED, WELD PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO ODD LOT FOR REVIEW PRIOR TO FABRICATION.
8. CONTRACTOR IS RESPONSIBLE FOR JOINT PREPARATIONS AND WELDING PROCEDURES INCLUDING BUT NOT LIMITED TO: WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND WELDING TAPERS OF UNEQUAL PARTS.
9. CONTRACTOR IS RESPONSIBLE FOR SEQUENCING AND PROCEDURES OF WELDING TO MINIMIZE THE EFFECT OF SHRINKAGE, RESIDUAL STRESSES, AND TO MAINTAIN ERECTION TOLERANCES.
10. STRUCTURAL STEEL SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.

STRUCTURAL STEEL WELDING INSPECTION

1. WELDS SHALL BE INSPECTED PER THE REQUIREMENTS OF AWS D1.1 BY AWS/WABO CERTIFIED WELDING INSPECTORS. THE WELDING INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. THE WELDING INSPECTOR SHALL SEND REPORTS TO THE ENGINEER AND CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. WHEN WORK IS COMPLETE AND ALL NON-CONFORMANCES RESOLVED, THE WELDING INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK WAS COMPLETED IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
2. WELDER CERTIFICATES SHALL BE SUBMITTED TO THE WELDING INSPECTOR PRIOR TO WELDING.
3. EXTENT OF WELDING INSPECTION SHALL BE AS FOLLOWS. SEE SPECIFICATIONS FOR FURTHER INSPECTION REQUIREMENTS:

ALL WELDS:	VISUAL INSPECTION
PARTIAL PENETRATION GROOVE WELDS AND MULTI-PASS FILLET WELDS:	VISUALLY INSPECT ROOT PASSES AND LIQUID PENETRANT TEST ALL PJP WELDS 5/16 INCH OR GREATER IN THICKNESS OR MULTI-PASS FILLET WELDS
COMPLETE PENETRATION GROOVE WELDS:	VISUALLY INSPECT ROOT PASSES AND ULTRASONIC TEST. PLATE AND MEMBERS LESS THAN 1/4 INCH THICK SHALL BE MAGNETIC PARTICLE TESTED IN LIEU OF ULTRASONIC TESTING.

CONSTRUCTION TOLERANCES

1. UNLESS NOTED OTHERWISE, STANDARD CONSTRUCTION TOLERANCES SHALL BE BASED ON THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE AND ACI 117, STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.
2. ANY CONSTRUCTION TOLERANCES NOTED IN THE DRAWINGS OR SPECIFICATION ARE TO BE CONSIDERED IN CONJUNCTION WITH THE STANDARD TOLERANCES AS INDICATED ABOVE, UNLESS SPECIFICALLY NOTED AS AN EXCEPTION TO, OR IN LIEU OF A STANDARD TOLERANCE.

FOUNDATIONS

1. FOUNDATION DESIGNS ARE BASED ON THE DESIGN FINDINGS, RECOMMENDATIONS AND CRITERIA PROVIDED IN THE GEOTECHNICAL REPORT TITLED "Geotechnical Report (Revised), 108 Second Avenue Extension South, Seattle, Washington " DATED JULY 18, 2019 AND AUTHORED BY PAN GEO INC. REFER TO THE REFERENCED GEOTECHNICAL REPORT AND SUBSEQUENT ADDENDA FOR INFORMATION ON GENERALIZED SUBSURFACE PROFILES, SOIL PROPERTIES, EXISTING SITE FEATURES, AND CONDITIONS AFFECTING FOUNDATION INSTALLATION.
2. REFER TO THE GEOTECHNICAL REPORT FOR SOIL CONDITIONS AND EXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS.
3. ALL SPREAD FOOTINGS SHALL BEAR ON SOIL WITH AN ALLOWABLE BEARING PRESSURE OF 2000 PSF. IF SUITABLE SOIL IS NOT FOUND AT THE ELEVATION DETERMINED BY THE TOP OF FOOLING ELEVATION AND FOOTING THICKNESS INDICATED ON THE PLANS, FOOTINGS SHALL EITHER BE LOWERED AS REQUIRED TO BEAR ON SUITABLE SOIL, OR THE SUBGRADE MAY BE OVER EXCAVATED AND FOUNDATIONS MAY BEAR ON LEAN CONCRETE EXTENDING INTO THE ADEQUATE BEARING LAYER IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. REFER TO THE FOUNDATION TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
4. EARTH FORMS: SIDE FORMS FOR FOUNDATIONS MAY BE OMITTED AND CONCRETE PLACED AGAINST SOIL IF THE GEOTECHNICAL ENGINEER VERIFIES THAT THE SOIL EXCAVATIONS ARE SUITABLE FOR SUCH USE AND WILL NOT CAVE PRIOR TO OR DURING THE CONCRETE POUR.
5. MICROPILES SHALL BE DESIGNED AND INSTALLED BY A SPECIALTY CONTRACTOR WITH RECENT LOCAL EXPERIENCE WITH SUCH PILES AND SHALL BE SUBJECT TO APPROVAL OF THE GEOTECHNICAL ENGINEER. INSTALLATION AND LOAD TESTING OF PILES SHALL BE INSPECTED BY THE GEOTECHNICAL SPECIAL INSPECTOR PER THE SPECIAL INSPECTION AND TESTING SCHEDULE AND GEOTECHNICAL REPORT. LOCATE EXISTING UNDERGROUND UTILITIES BEFORE INSTALLING PILES.
6. ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PLACING CONCRETE.
7. CLEAN AND ROUGHEN CONSTRUCTION JOINTS BETWEEN FOUNDATIONS AND WALLS AND PIERS PER THE SECTION "CONCRETE FORMWORK AND JOINTS".

GENERAL STEEL FABRICATION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATION, UNLESS NOTED OTHERWISE.
2. STEEL CONNECTIONS SHALL BE DETAILED ON THE SHOP DRAWINGS IN CONFORMANCE WITH THE DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION AIDS, INCLUDING BUT NOT LIMITED TO: ERECTION ANGLES, LIFT HOLES AND OTHER AIDS.
4. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

A. WIDE FLANGE SHAPES: ASTM A992, GRADE 50, UNLESS NOTED OTHERWISE.

B. CHANNELS AND ANGLES: ASTM A36, Fy= 36 KSI, UNLESS NOTED OTHERWISE.

C. PLATES AND BARS: ASTM A572, GRADE 50, UNLESS NOTED OTHERWISE

D. SQUARE OR RECTANGULAR TUBES (HSS): ASTM A500, GRADE C, FY=50 KSI.

E. ROUND TUBES (HSS): ASTM A500, GRADE C, FY=46 KSI.

F. PIPES WITH NOMINAL DIAMETER LESS THAN OR EQUAL TO 12 INCHES: ASTM A53 TYPE E OR S, GRADE B, Fy = 35 KSI OR ASTM A501, Fy = 36 KSI
5. DIMENSIONAL TOLERANCES FOR BUILT UP MEMBERS SHALL BE PER AWS D1.1.
6. ALL EDGES OF CUT PIPES AND OTHER SECTIONS SHALL BE THERMALLY CUT OR GROUND TO A SURFACE ROUGHNESS NOT TO EXCEED 1000 µin.
7. ALL EDGES OF CUT PLATES, PIPES AND OTHER SECTIONS SHALL BE FREE OF NOTCHES HAVING A RADIUS OF LESS THAN 3/8" UNO
8. BOLTS SHALL CONFORM TO ASTM A325 OR ASTM A490, TYPE 1, HEAVY-HEX STRUCTURAL BOLTS AS NOTED ON DRAWINGS.
9. NUTS SHALL CONFORM TO ASTM A563, GRADE DH, HEAVY HEX NUTS.
10. WASHERS SHALL CONFORM TO ASTM F436, TYPE 1 HARDENED STEEL WASHERS.
11. "TWIST OFF" TYPE TENSION CONTROLLED BOLT/NUT WASHER ASSEMBLIES SHALL CONFORM TO F2280 (A490)
12. INSTALL HIGH-STRENGTH BOLTS ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS". ALL BOLTS SHALL BE INSTALLED SNUG-TIGHT AS DEFINED IN AISC 360 UNLESS NOTED OTHERWISE
13. ALL BOLT HOLES SHALL BE STANDARD SIZE (NOT OVERSIZED OR SLOTTED) UNLESS NOTED OTHERWISE.
14. UNLESS NOTED OTHERWISE, ANCHOR RODS SHALL BE ASTM F1554 GRADE 55. IF ANCHOR RODS ARE TO BE WELDED THEY SHALL BE GRADE 55-S1.
15. ANCHOR RODS FOR LEDGERS TO CONCRETE OR CMU WALLS SHALL BE ASTM A307 BOLTS OR ASTM F1554, GRADE 36.
16. ANCHOR RODS SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329 AND SUPPLIED WITH GALVANIZED NUTS AND WASHERS AS SPECIFIED IN THESE NOTES.
17. FURNISH ANCHOR RODS WITH MATCHING DOUBLE HEX NUTS JAMMED AT THE EMBEDDED END. PROVIDE BEARING WASHER BETWEEN DOUBLE NUT AS NOTED IN DETAILS. ANCHOR ROD EMBEDMENT IS MEASURED FROM FACE OF CONCRETE TO TOP OF DOUBLE NUT.
18. ALL STRUCTURAL AND ARCHITECTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE CORROSION PROTECTED BY BEING HOT-DIPPED GALVANIZED PER ASTM A123, OR SUITABLY PRIMED AND PAINTED PER THE PROJECT SPECIFICATION UNLESS NOTED OTHERWISE. ALL STEEL ANCHORS, TIES AND OTHER MEMBERS EMBEDDED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED.
19. PRIOR TO WELDING ANY GALVANIZED COMPONENTS, ALL GALVANIZING IN THE WELD AREA SHALL BE REMOVED TO PREVENT WELD CONTAMINATION. UPON COMPLETION OF WELDING, THE UNCOATED STEEL SURFACES SHALL BE COATED IN ACCORDANCE WITH ASTM A780 TO EQUIVALENT CORROSION PROTECTION AS THE ADJACENT HOT DIPPED GALVANIZED REGIONS. THE WORKS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CONTRACTOR'S METHOD STATEMENT FOR THIS WORK
20. ANY GALVANIZING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780
21. ALL STEEL PERMANENTLY EXPOSED TO THE WEATHER THAT IS NOT HOT-DIPPED GALVANIZED SHALL HAVE ADDITIONAL SEAL WELDING TO PROTECT THE MEMBERS (PIPES, TUBES, BUILT-UPS) AND THE CONNECTIONS FOR MOISTURE INFILTRATION. ALTERNATIVE SEALING MEASURES MAY BE SUBMITTED FOR REVIEW AND APPROVAL. SUCH ADDITIONAL SEAL WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW

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REVIEWED BY SPU/DRAINAGE 20.....	DRAWN      CB    12/01/21 CHECKED      CB    12/01/21	PROJECT MANAGER					VAULT PLAN NO.
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CONCRETE

1. MIXING, BATCHING, TRANSPORTING, AND PLACING OF ALL CONCRETE AND SELECTION OF CONCRETE MATERIALS SHALL CONFORM TO ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE, UNLESS NOTED OTHERWISE.
2. EACH MIX DESIGN LISTED BELOW SHALL BE SUBMITTED WITH CURRENT SUPPORTING STRENGTH DATA, AND STAMPED BY A DESIGN PROFESSIONAL REGISTERED IN THE STATE OF WASHINGTON. IN LIEU OF A DESIGN PROFESSIONAL STAMP, A CONTINUOUS APPROVAL STAMP FOR THE SPECIFIED CONCRETE STRENGTH FROM THE CITY OF SEATTLE DEPARTMENT OF PLANNING AND DEVELOPMENT MAY BE USED. MIX DESIGNS SHALL BE APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE TESTING LABORATORY PRIOR TO USE.
3. THE MIX SPECIFICATION TABLE BELOW INDICATES THE MINIMUM CONCRETE DESIGN MIX REQUIREMENTS. SOME DESIGN MIX PROPERTIES MAY NEED TO EXCEED MINIMUM REQUIREMENTS IN ORDER TO MAKE OTHER PROPERTIES MEET MINIMUM REQUIREMENTS.
4. THE CONTRACTOR SHALL DETERMINE THE SLUMP. EACH CONCRETE MIX DESIGN SHALL BE SUBMITTED WITH A SPECIFIED SLUMP. SLUMP SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK, EXCEPT IF CONCRETE IS PUMPED THEN SLUMP SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE. SLUMPS SHALL BE WITHIN +1 INCH AND -2 INCHES OF THE SPECIFIED SLUMP.
5. WATER/CEMENT (W/C) RATIO SHALL BE BASED ON TOTAL WEIGHT OF CEMENTITIOUS MATERIAL, INCLUDING FLY ASH AND OTHER POZZOLANIC MATERIALS.
6. THE USE OF SUPER PLASTICIZERS AND WATER REDUCERS IS ALLOWED, BUT NOT REQUIRED UNLESS SPECIFICALLY NOTED AS SUCH. WHERE USED, ALL ADMIXTURES SHALL BE INCLUDED IN THE CONCRETE MIX DESIGN SUBMITTALS. ALL ADMIXTURES SHALL BE CHLORIDE FREE.
7. CONCRETE CURING COMPOUNDS AND PROCEDURES SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.

CONCRETE MIX SPECIFICATION TABLE						
LOCATION	f'c MIN (PSI)	TEST AGE (DAYS)	MAX W/C RATIO	AIR CONTENT (%)	SHRINKAGE LIMIT (%)	MAX AGGREGATE SIZE (IN)
SLAB	4000	28	0.5	5	-	3/4
FOOTING & PLINTHS	4000	28	0.5	-	-	3/4

CONCRETE REINFORCING STEEL

1. ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR ASTM A706 AS NOTED ON PLANS OR WHERE OTHER REQUIREMENTS MANDATE THE USE OF ASTM A706. ASTM A615 GRADE 60 MAY BE USED WHERE ASTM A706 GRADE 60 IS REQUIRED ONLY IF MILL CERTIFICATES ARE SUBMITTED TO THE ARCHITECT, ENGINEER, AND SPECIAL INSPECTOR DEMONSTRATING THE FOLLOWING:

A. THE ACTUAL YIELD STRENGTH DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18000 PSI

B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRENGTH TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25.
2. REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. WELDED REBAR IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE ENGINEER.
3. REINFORCING BARS SHALL BE LAP SPliced PER THE LAP SPlice SCHEDULE. LAP SPlices ARE TO BE SECURELY TIED AT ALL SIDE AND END LAPS. SPlice REINFORCING WHERE INDICATED ON THE DRAWINGS.
4. MECHANICAL SPlices SHALL HAVE A CURRENT ICC-ES EVALUATION REPORT DEMONSTRATING THE FOLLOWING: TYPE 1 MECHANICAL SPlices SHALL BE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. TYPE 2 MECHANICAL SPlices SHALL MEET THE REQUIREMENTS OF TYPE 1 AND BE CAPABLE OF DEVELOPING 100% OF THE SPECIFIED TENSILE STRENGTH OF THE BAR. UNLESS NOTED OTHERWISE, ALL MECHANICAL SPlices SHALL BE TYPE 1 WITH THE FOLLOWING EXCEPTIONS: MECHANICAL SPlices SHALL BE TYPE 2 WHERE USED FOR REINFORCING WITHIN THE LATERAL SYSTEM (SHEAR WALLS AND MOMENT FRAMES), LONGITUDINAL COLUMN REINFORCING, AND REINFORCING WHICH CONNECTS THE DIAPHRAGM SLABS TO THE LATERAL SYSTEM. MANUFACTURER DOCUMENTATION FOR MECHANICAL SPlice DEVICES SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. MECHANICAL SPlices SHALL BE STAGGERED BY A MINIMUM OF 24 INCHES.
5. HEADED DEFORMED BAR REINFORCEMENT (TERMINATORS) SHALL SATISFY THE REQUIREMENTS OF ASTM A970, INCLUDING THOSE OF ANNEX A FOR THE "HA" CLASSIFICATION AND HAVE A CURRENT ICC-ES EVALUATION REPORT DEMONSTRATING THAT THE ASSEMBLY MEETS OR EXCEEDS ICC-ES AC347 ACCEPTANCE CRITERIA. ALL HEADED DEFORMED BAR REINFORCEMENT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. ACCEPTABLE PRODUCTS ARE THE nVENT LENTON TERMINATOR - D6 (ER-0188) OR HRC 555 (ESR-2935).
6. BARS SHALL NOT BE BENT OR TWISTED IN THE FIELD, UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
7. SECURELY TIE ALL REINFORCING IN PLACE WITH IRON WIRE. SUPPORT ALL REINFORCING IN PLACE WITH ACCEPTABLE CHAIRS.
8. UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS, MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:

- 3 INCHES

CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER:

- #5 BAR AND SMALLER: 1 1/2 INCHES
- #6 BAR AND LARGER: 2 INCHES

OTHER CONCRETE:

- SLABS: 3/4 INCHES TOP, 3/4 INCH BOTTOM, UNLESS NOTED OTHERWISE
- WALLS: 1 INCH
- BEAMS, COLUMNS, PILASTERS (TIES, STIRRUPS, SPIRALS): 1-1/2 INCHES

CONCRETE FORMWORK AND JOINTS

1. DESIGN AND CONSTRUCTION OF FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH ACI 301.
2. ALL CONSTRUCTION JOINT SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED SHALL BE INTENTIONALLY ROUGHENED TO A 1/4 INCH AMPLITUDE. WHERE INDICATED IN THE DRAWINGS, INTERMITTENT SHEAR KEYS MAY BE USED IN LIEU OF INTENTIONALLY ROUGHENING SURFACES.
3. PRIOR TO CASTING NEW CONCRETE, ALL CONSTRUCTION JOINT SURFACES SHALL BE CLEANED AND LAITANCE REMOVED. IMMEDIATELY BEFORE PLACING NEW CONCRETE, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
4. REFER TO THE ARCHITECTURAL / ARTIST DRAWINGS FOR CHAMFERS REVEALS AND SURFACE TREATMENTS.

NON-SHRINK GROUT

1. ALL NON-SHRINK GROUT SHALL MEET THE REQUIREMENTS OF ASTM STANDARD C1107, AND SHALL ATTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 8,000 PSI.
2. IN ADDITION TO THE ABOVE, NON-SHRINK GROUT USED TO SUPPORT BASE PLATES, SLEEVES AND EMBEDDED STRUCTURAL STEEL SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH 2000 PSI GREATER THAN THE MAXIMUM SPECIFIED COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE.
3. IN ADDITION TO THE ABOVE, NON-SHRINK GROUT USED TO REPAIR DAMAGED OR CRACKED CONCRETE SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH NO LESS THAN THE MAXIMUM SPECIFIED COMPRESSIVE STRENGTH OF THE SURROUNDING CONCRETE.

REINFORCING BAR DEVELOPMENT, SPLICES AND HOOKS

1. KEY TO TABLES:

db = BAR DIAMETER

Ld = DEVELOPMENT LENGTH OF BAR IN TENSION

Ldthk = DEVELOPMENT LENGTH OF "HORIZONTAL BARS IN THICK CONCRETE"

Ldh = DEVELOPMENT LENGTH OF HOOKED BARS IN TENSION

Ldt = DEVELOPMENT LENGTH OF HEADED BARS

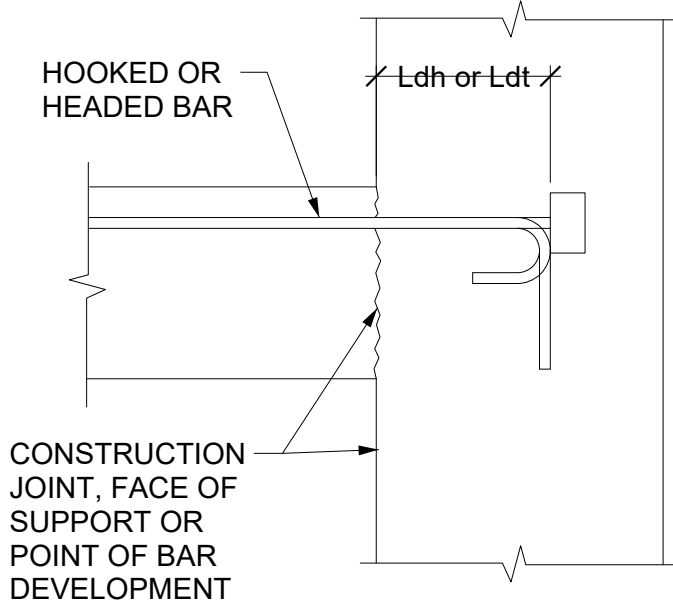
Ls = TYPICAL LAP SPlice LENGTH

Lsthk = LAP SPlice LENGTH OF "HORIZONTAL BARS IN THICK CONCRETE"
2. MULTIPLY THE TABULATED VALUES FOR Ld, Ldthk, Ls AND Lsthk BY 1.5 IF THE FOLLOWING REQUIREMENTS ARE NOT MET:

SLABS AND WALLS: CLEAR BAR SPACING >2db AND CLEAR COVER >db  
BEAMS AND COLUMNS: CLEAR BAR SPACING >db AND CLEAR COVER >db

3. SEE DETAILS FOR REQUIREMENTS RELATED TO HOOKED AND HEADED BARS

4. ALL BAR DETAILING SHALL COMPLY WITH THESE SCHEDULES UNLESS NOTED OTHERWISE. SEE SHEAR WALL NOTES FOR ADDITIONAL SPlice AND DEVELOPMENT REQUIREMENTS.
5. #14 AND #18 BARS SHALL NOT BE SPliced OR DEVELOPED WITH HEADED BARS
6. WHEN BARS OF DIFFERENT SIZES ARE SPliced, SPlice LENGTH SHALL BE BASED ON THE SMALLER BAR
7. "HORIZONTAL BARS IN THICK CONCRETE" IS DEFINED AS BARS INCLINED LESS THAN 30 DEGREES TO HORIZONTAL WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW. THIS INCLUDES ALL CONCRETE ELEMENTS.
8. TABLES ARE BASED ON NORMAL WEIGHT CONCRETE, FOR BARS IN LIGHTWEIGHT CONCRETE, MULTIPLY VALUES BY 1.33. HEADED BARS NOT ALLOWED IN LIGHTWEIGHT CONCRETE.
9. THESE TABLES ARE BASED ON 60 KSI REINFORCEMENT, FOR 80 KSI REINFORCEMENT, MULTIPLY TABULATED LENGTHS BY 1.33. HEADED 80 KSI BARS MAY NOT BE USED.
10. FOR EPOXY COATED REBAR MULTIPLY TABULATED VALUES BY 1.5 EXCEPT THAT Ldh AND Ldt MAY BE MULTIPLIED BY 1.2

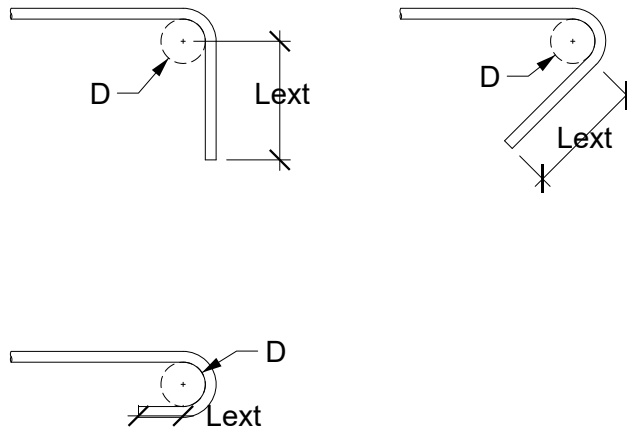


f'c = 4000 psi						
BAR SIZE	Ld (in)	Ldthk (in)	Ls (in)	Lsthk (in)	Ldh (in)	Ldt (in)
#3	15	20	20	26	6	6
#4	19	25	25	33	7	8
#5	24	32	32	41	9	10
#6	29	38	38	50	10	12
#7	42	55	55	71	12	14
#8	48	63	63	82	14	16
#9	54	71	71	92	15	18
#10	61	80	80	104	17	20
#11	67	88	88	114	19	22
#14	81	106	-	-	33	-
#18	108	141	-	-	43	-

1. HOOKED BAR DEVELOPMENT LENGTHS APPLY TO MEMBERS WITH:

a. SIDE COVER >= 2 1/2 INCHES.

b. END CONCRETE COVER (90° HOOKS) >= 2 INCHES.
2. FOR 180° HOOKS AT RIGHT ANGLES TO EXPOSED SURFACE, PROVIDE 2 INCHES MINIMUM COVER TO TAIL.
3. CLEAR BAR COVER SHALL NOT BE LESS THAN 2 TIMES BAR DIAMETER AND CLEAR SPACING BETWEEN BARS SHALL NOT BE LESS THAN 4 TIMES BAR DIAMETER.
4. SMALLER DEVELOPMENT LENGTHS MAY BE SUBMITTED FOR REVIEW BY SEOR IF JUSTIFIED BY TESTING AND AN ICC TEST REPORT IS PROVIDED.



END HOOKS			
BAR SIZE	D (in)	90 DEGREE Lext (in)	180 DEGREE Lext (in)
#3	2.25	4.5	2.5
#4	3	6	2.5
#5	3.75	7.5	2.5
#6	4.5	9	3
#7	5.25	10.5	3.5
#8	6	12	4
#9	9.5	13.5	4.5
#10	10.75	15.25	5
#11	12	17	6
#14	18.25	20.5	7
#18	24	27	9

STIRRUPS, TIES AND HOOPS				
BAR SIZE	D (in)	90 DEGREE Lext (in)	135 DEGREE Lext (in)	180 DEGREE Lext (in)
#3	1.5	3	3	2.5
#4	2	3	3	2.5
#5	2.5	3.75	3.75	2.5
#6	4.5	9	4.5	3
#7	5.25	10.5	5.25	3.5
#8	6	12	6	4

ADHESIVE ANCHORS

1. ADHESIVE USED TO ANCHOR THREADED RODS AND REBAR TO CONCRETE SHALL BE HILTI HIT-RE 500-V3 (ESR-3814), OR APPROVED EQUAL WITH A CURRENT ICC-ES REPORT. ADHESIVE ANCHOR PRODUCTS SHALL BE APPROVED FOR USE IN CRACKED AND UNCRACKED CONCRETE PER ICC-ES AC308 ACCEPTANCE CRITERIA.
2. MINIMUM EMBEDMENT SHALL BE AS NOTED ON THE DRAWINGS.
3. RODS SHALL BE HAS-R 316 SS UNLESS NOTED OTHERWISE.
4. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF INSTALLATION.
5. THE CONTRACTOR SHALL INSTALL ANCHORS IN CONCRETE IN STRICT ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS.
6. NO REINFORCEMENT SHALL BE CUT OR DAMAGED TO ACCOMMODATE INSTALLATION OF ANCHORS IN CONCRETE.
7. DEFECTIVE OR UNUSED HOLES SHALL BE GROUTED FULL WITH AN APPROVED ADHESIVE OR NON-SHRINK GROUT.

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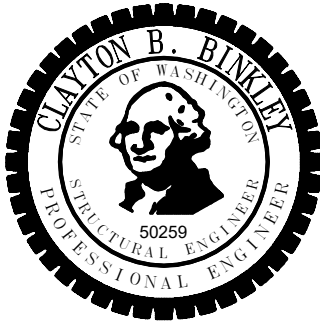
STATEMENT OF SPECIAL INSPECTIONS

1. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING PER IBC SECTION 1704. THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR CERTIFIED BY THE BUILDING OFFICIAL TO PERFORM THE TYPES OF INSPECTIONS AND TESTS SPECIFIED. THE FREQUENCY OF INSPECTIONS AND TESTING SHALL BE AS OUTLINED IN THE IBC TABLE ITEMS LISTED BELOW. DEFICIENCIES SHALL BE REPORTED DAILY TO THE CONTRACTOR. SUMMARY EPORTS SHALL BE DISTRIBUTED WEEKLY TO THE OWNER, ARCHITECT, ARTIST, CONTRACTOR, BUILDING OFFICIAL, AND STRUCTURAL ENGINEER. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

VERIFICATION AND INSPECTION	C	P	NOTES
<b>1704.2.5.1 -</b>  PERFORM INSPECTION AS REQUIRED BY SECTION 1704.2.5. REFER TO SECTION 1704.2.5.2 FOR INSPECTION EXEMPTIONS FOR APPROVED FABRICATORS	----	----	
<b>1705 REQUIRED VERIFICATION AND INSPECTION</b>			
<b>1705.2 STEEL CONSTRUCTION</b>			
<b>1705.2.1 STRUCTURAL STEEL:</b> ALL IN ACCORDANCE WITH QUALITY INSURANCE INSPECTION REQUIREMENTS OF AISC 360. NOTE ADDITIONAL REQUIREMENTS IN SEISMIC RESISTANCE SECTION.			
1. WELDING			
A. OBSERVE OR PERFORM INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N5.4-1	----	----	
B. OBSERVE OR PERFORM INSPECTION TASKS DURING WELDING PER AISC 360 TABLE N5.4-2	----	----	
C. OBSERVE OR PERFORM INSPECTION TASKS AFTER WELDING PER AISC 360 TABLE N5.4-3	----	----	
D. VISUALLY INSPECT ROOT PASSES OF PARTIAL JOINT PENETRATION AND MULTI-PASS FILLET WELDS	X	----	
2. WELDING NON DESTRUCTIVE TESTING			
A. PERFORM NDT PER PROJECT DRAWINGS AND SPECIFICATIONS.	----	----	
<b>1705.3 – CONCRETE</b> REFER TO TABLE 1705.3:			
1. INSPECTION OF REINFORCING STEELAND PLACEMENT.		X	
3. INSPECTION OF ANCHORS CAST IN CONCRETE		X	
4. VISUAL INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE			
A. INSPECTION OF ANCHORS POST- INSTALLED IN HARDENED CONCRETE MEMBERS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X		
B. INSPECTION OF ANCHORS POST- INSTALLED IN HARDENED CONCRETE MEMBERS NOT DEFINED IN 4A.		X	
5. VERIFYING USE OF REQUIRED DESIGN MIX.		X	
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	
13. INSPECTION DURING CONCRETE MIXING FOR MIXES NOT GRANTED CONTINUOUS APPROVAL BY THE CITY OF SEATTLE BUILDING OFFICIAL UNDER CONDITIONS DESCRIBED IN 1705.3.2	X		
14. INSPECTION OF REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORMSAVERS		X	

<b>1705.6 –SOILS.</b> REFER TO TABLE 1705.6 & GEOTECHNICAL REPORT			
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	
<b>1705.8 DEEP FOUNDATIONS</b>			
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X		
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X		

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CHIEF SEATTLE CLUB WELCOME FIGURE

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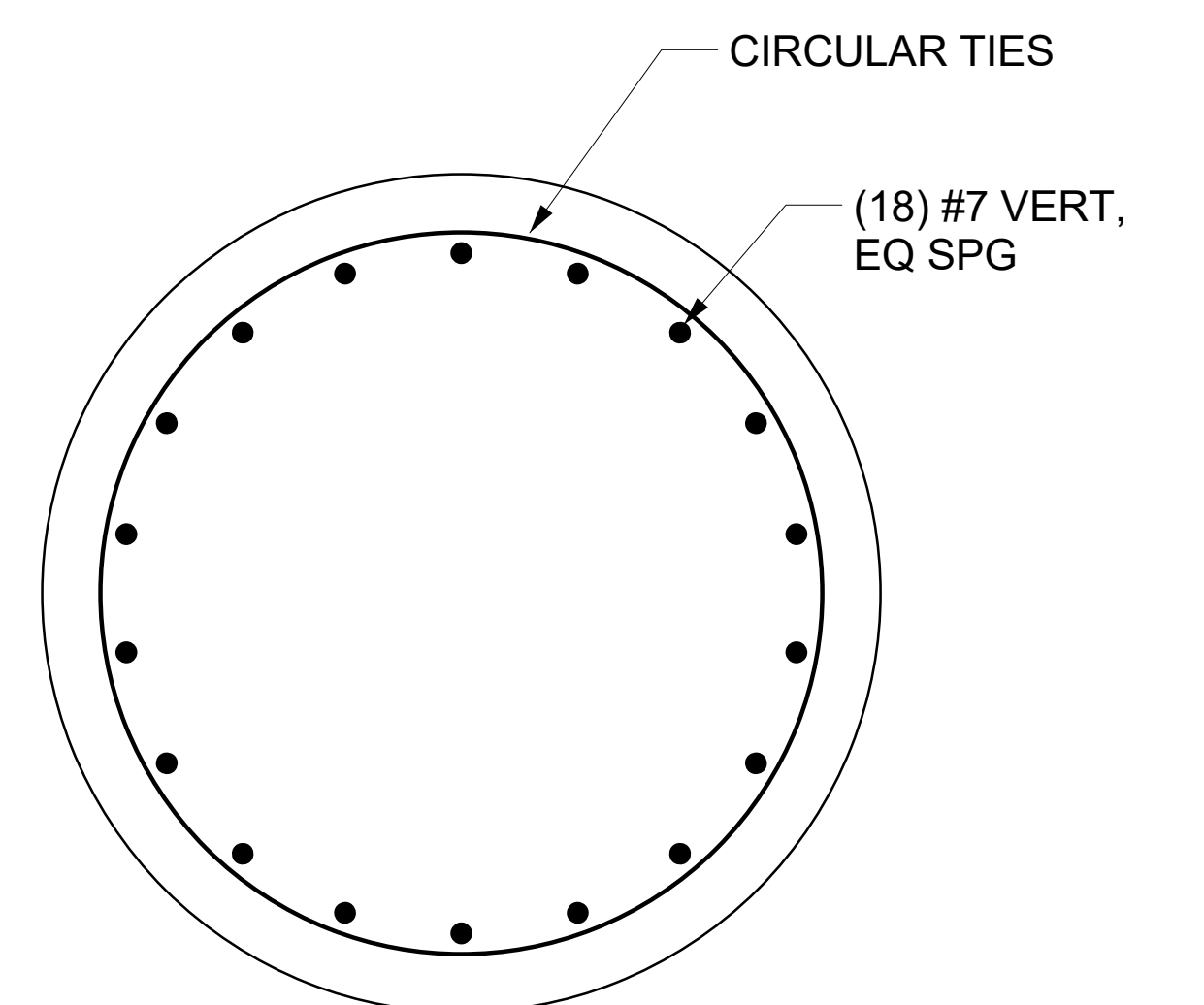
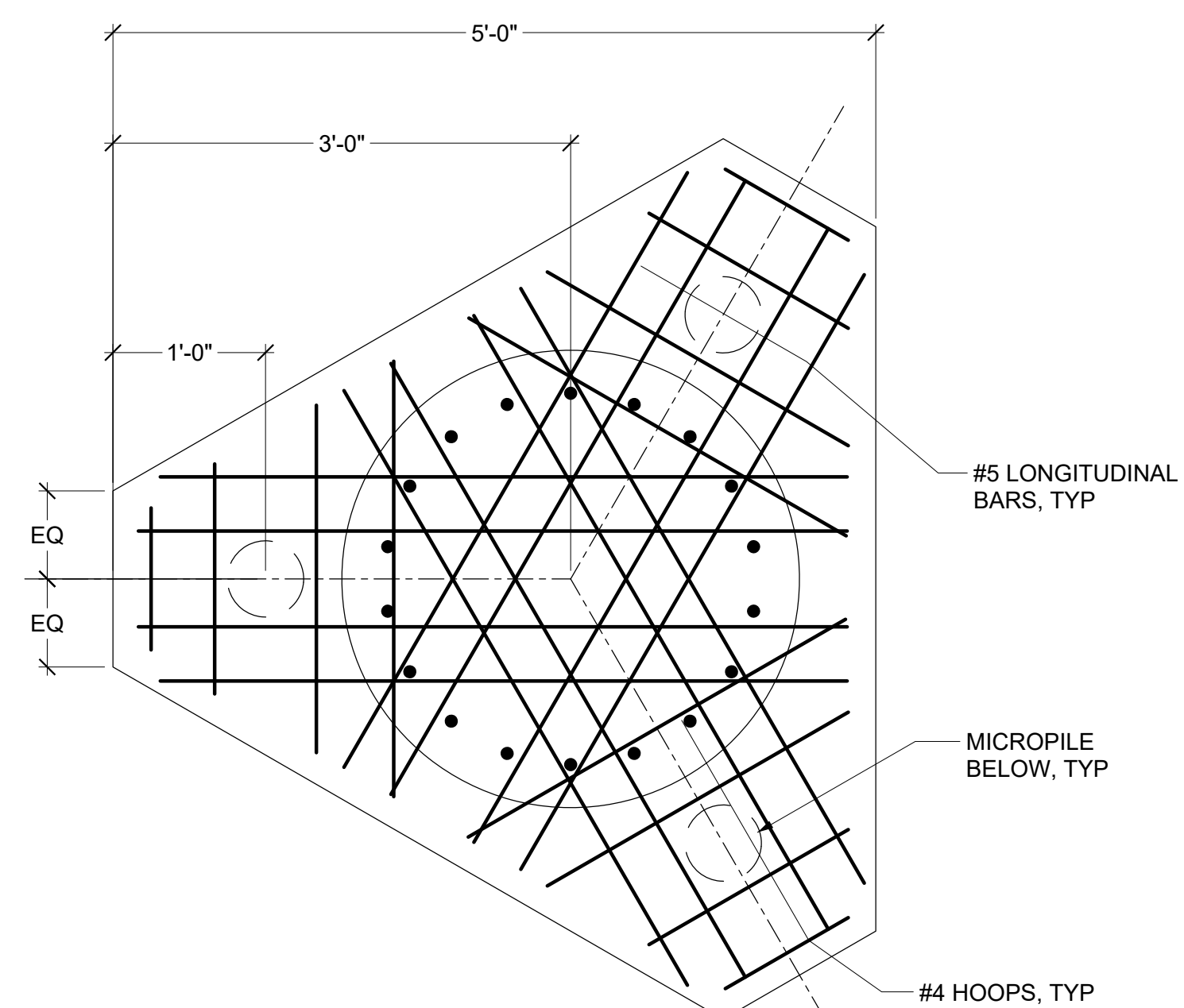
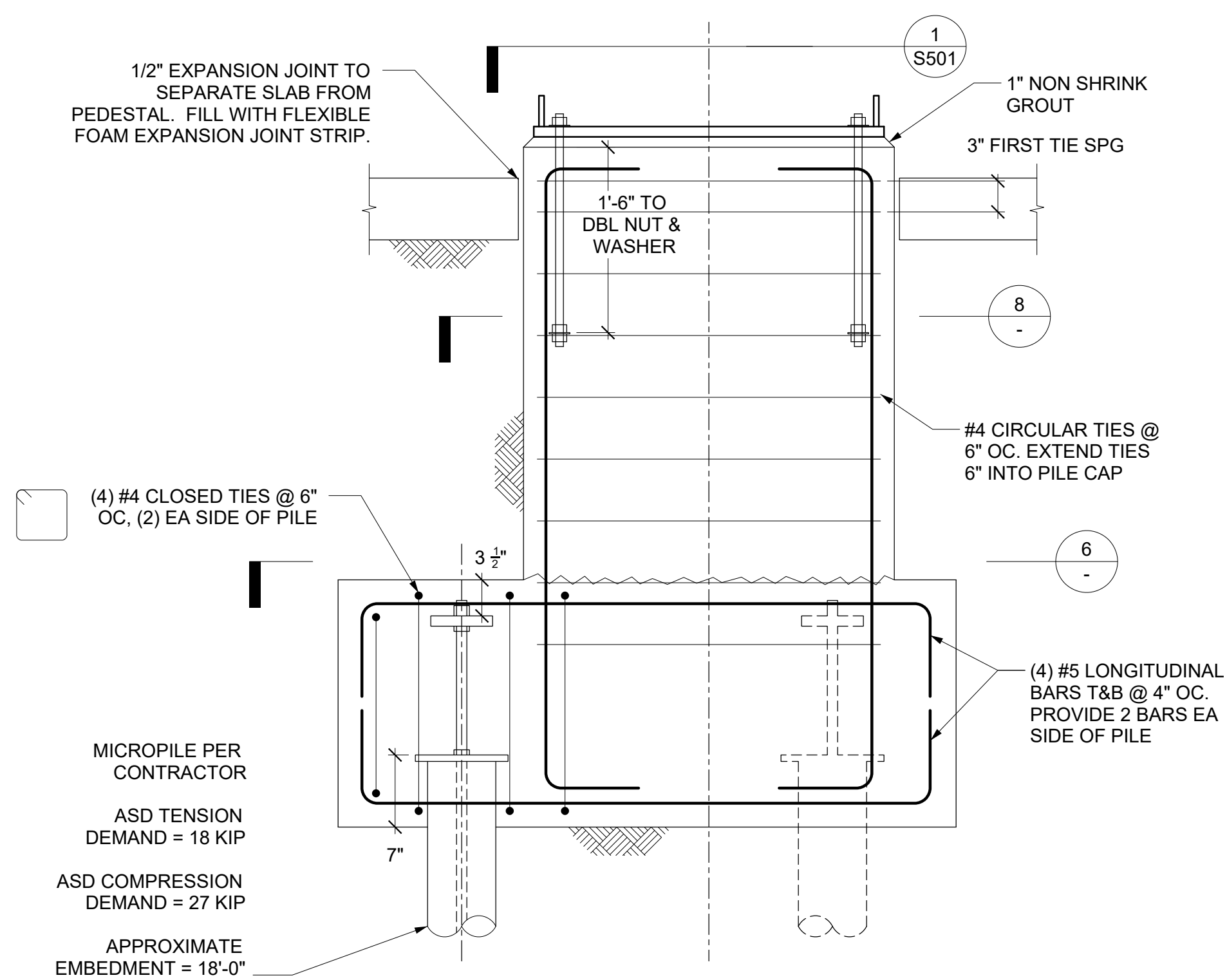
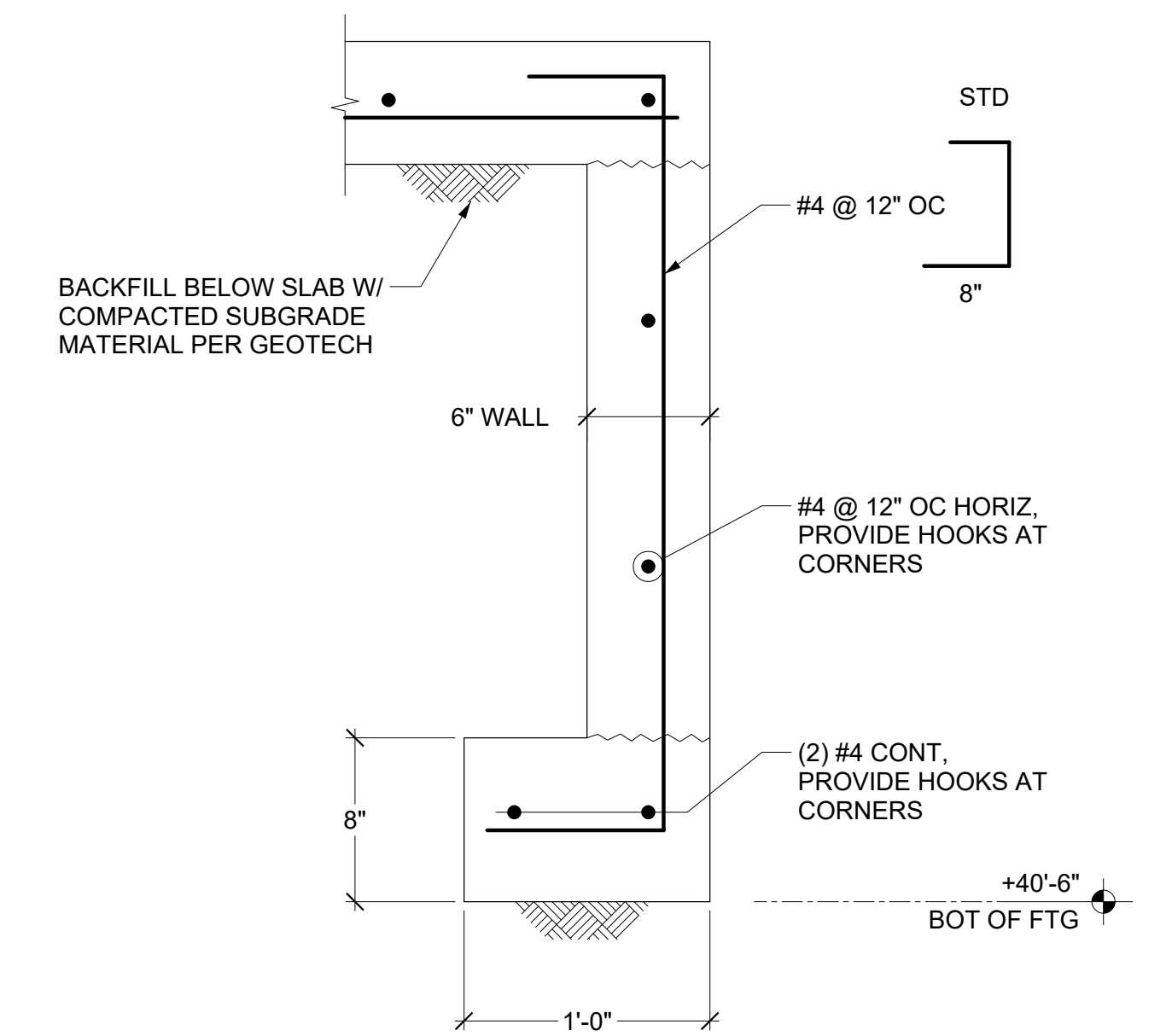
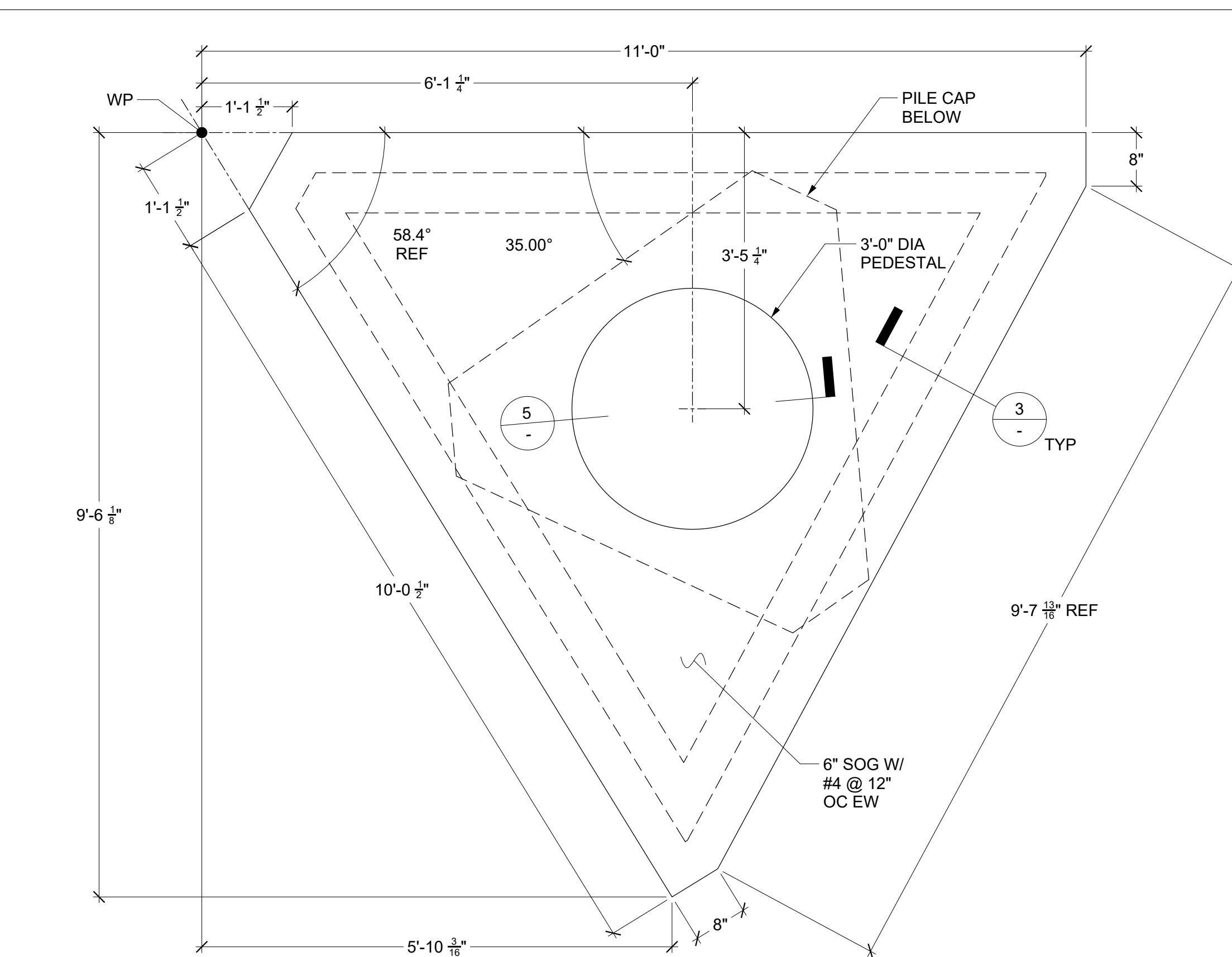
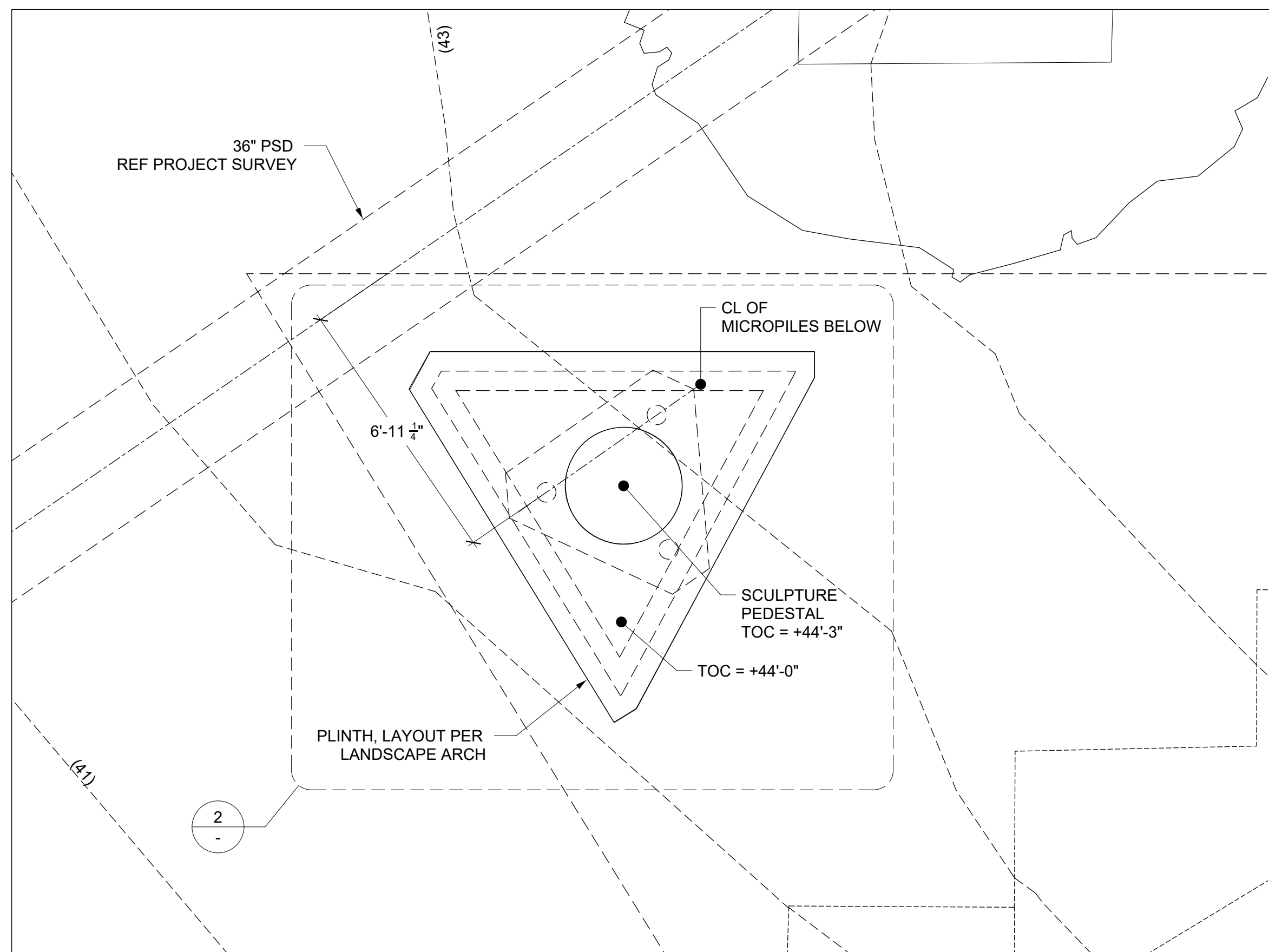
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<p>All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.</p>			



**City of Seattle**  
**Seattle Department**  
**of Transportation**

WORK ORDER NO. -	SPU NO. -
PERMIT NO. -	APPROVED
SCALE: H. 1¼"=1'	INSPECTOR'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURE

SDCI PROJECT #:

108 2ND AVE S  
PLANS AND DETAILS - S101  
EXT 2ND AVE S

SDOT PROJECT NO. \_\_\_\_\_

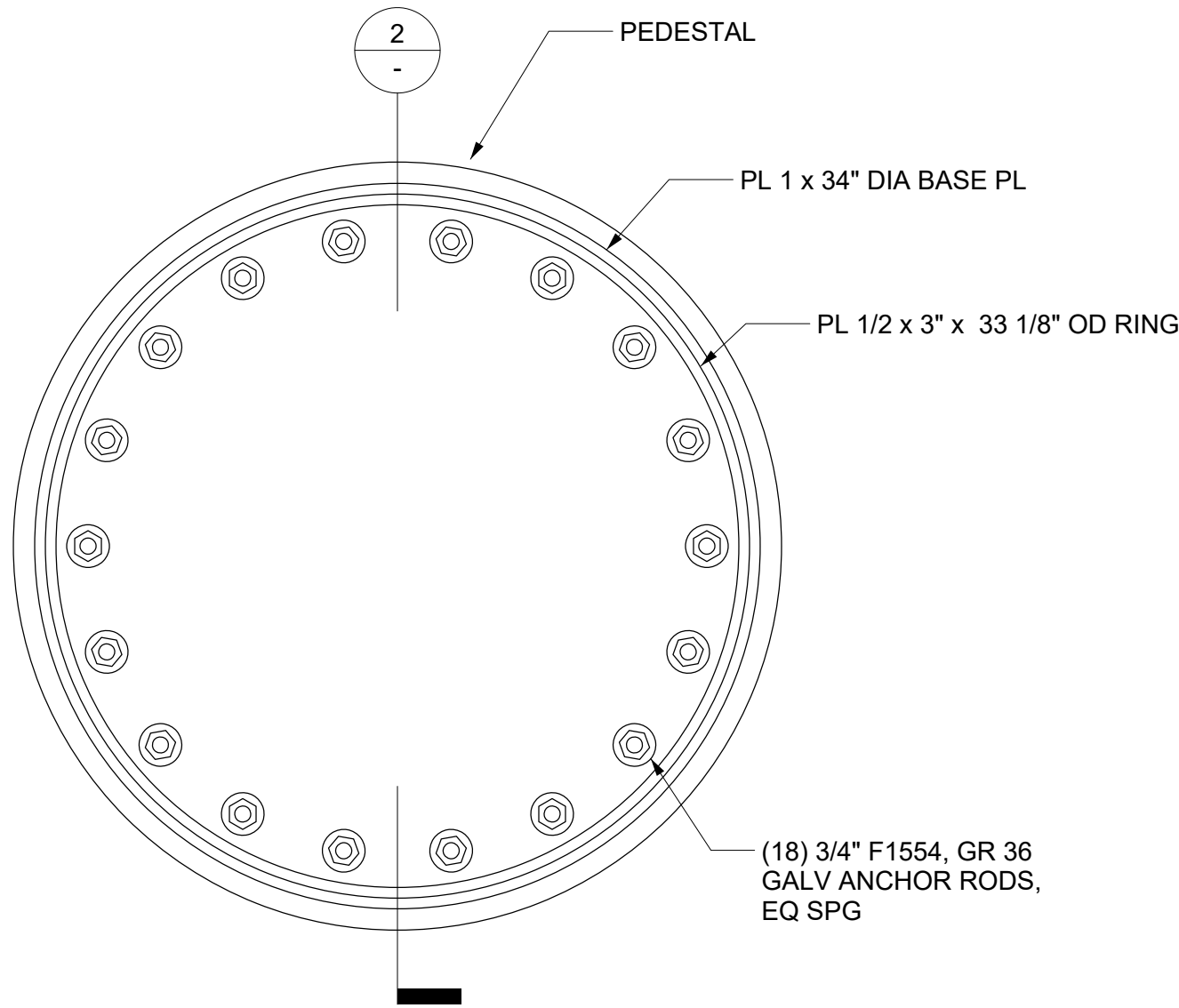
VAULT PLAN NO. \_\_\_\_\_

VAULT SERIAL NO. \_\_\_\_\_

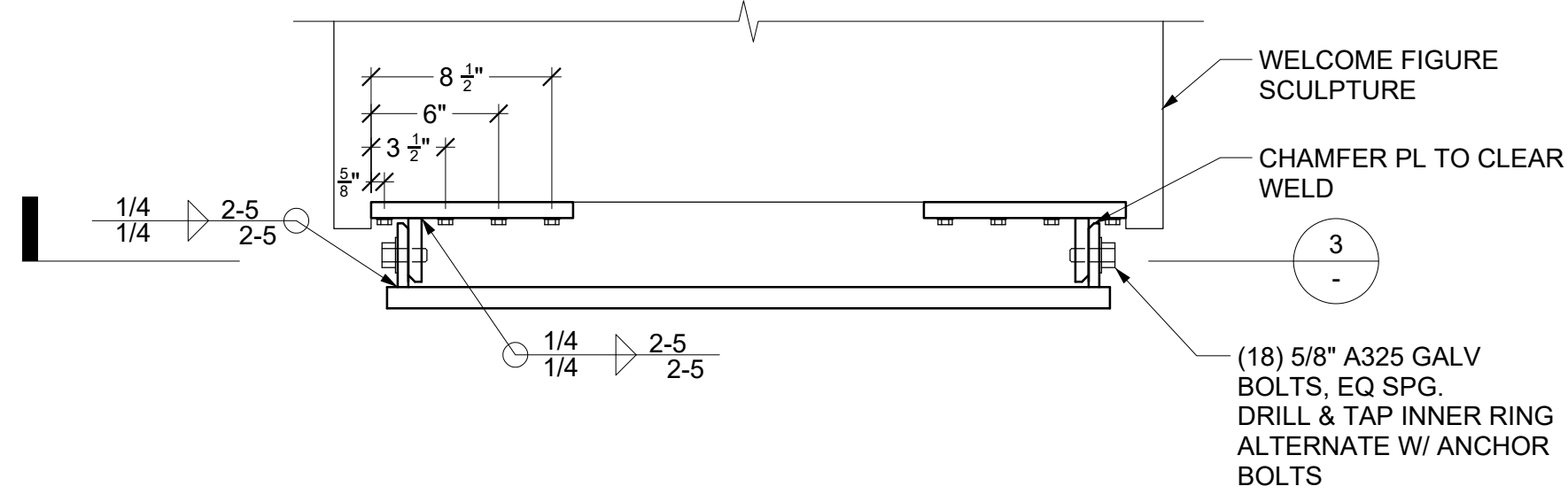
SHEET \_\_\_\_\_ OF \_\_\_\_\_

60% SIP SUBMISSION - 12/1/2021

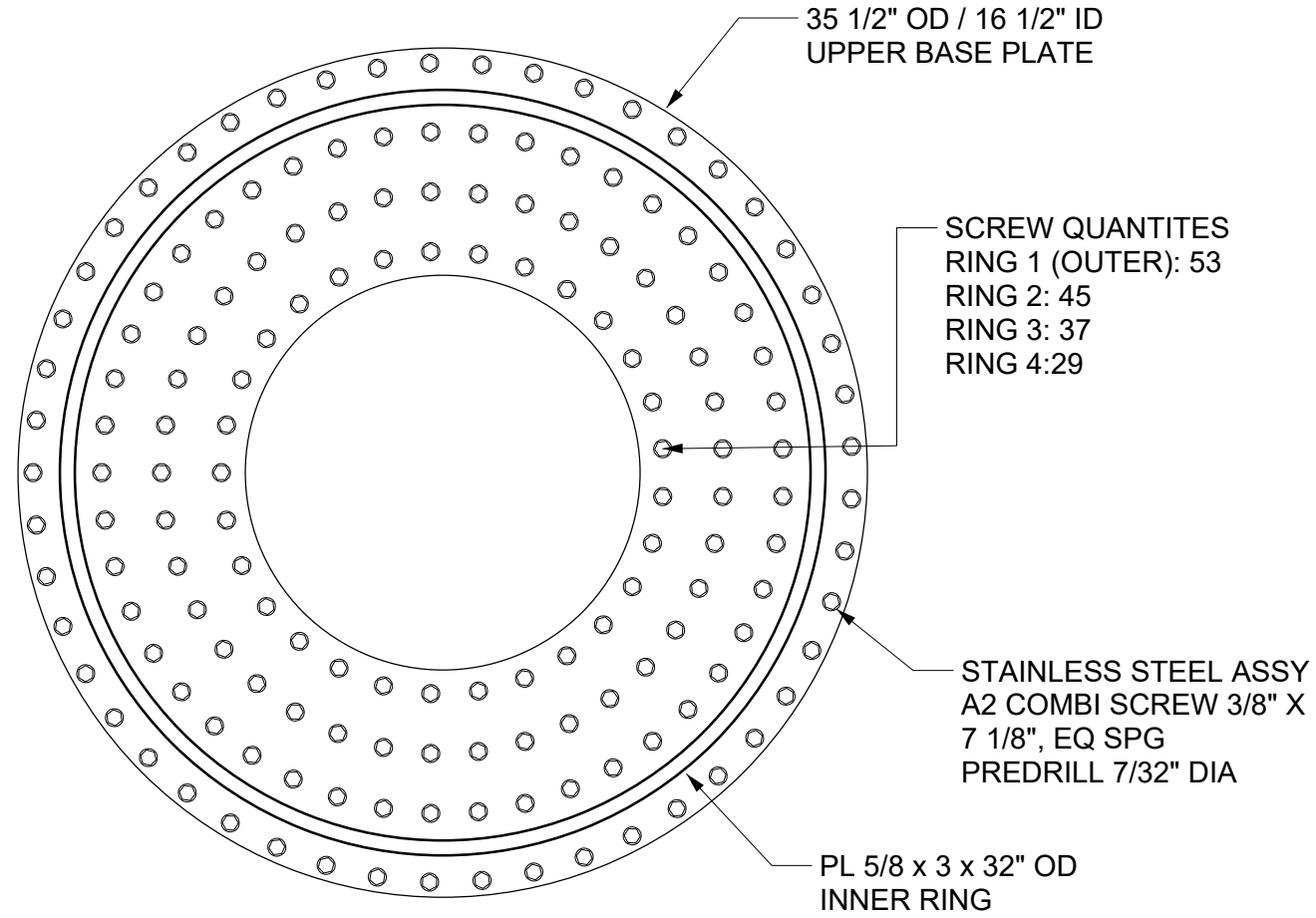




1 BASE PLATE DETAIL  
1 1/2"=1'-0"



2 SECTION - UPPER BASE PLATE  
1 1/2"=1'-0"



3 BASE PLATE DETAIL  
1 1/2"=1'-0"

DATE	MARK	NATURE REVISIONS	MADE	CHKD	REVD



ODD lot

Architecture + Engineering  
4110 Dayton Ave N  
Seattle WA 98103  
206.300.7261

REVIEWED BY SPU/WATER ENGINEERING	NAME OR INITIALS AND DATE	INITIALS AND DATE
20.....	DESIGNED CB 12/02/21	REVIEWED: .....
REVIEWED BY SPU/DRAINAGE	CHECKED CB 12/02/21	PROJECT MANAGER
20.....	DRAWN CB 12/01/21	REVISED AS-BUILT .....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	CHECKED CB 12/01/21	DESIGN REVIEW
20.....	All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.	

City of Seattle  
Seattle Department  
of Transportation

WORK ORDER NO: -  
PERMIT NO: -  
SCALE: H. 1/4"=1'-0" 1"=5'

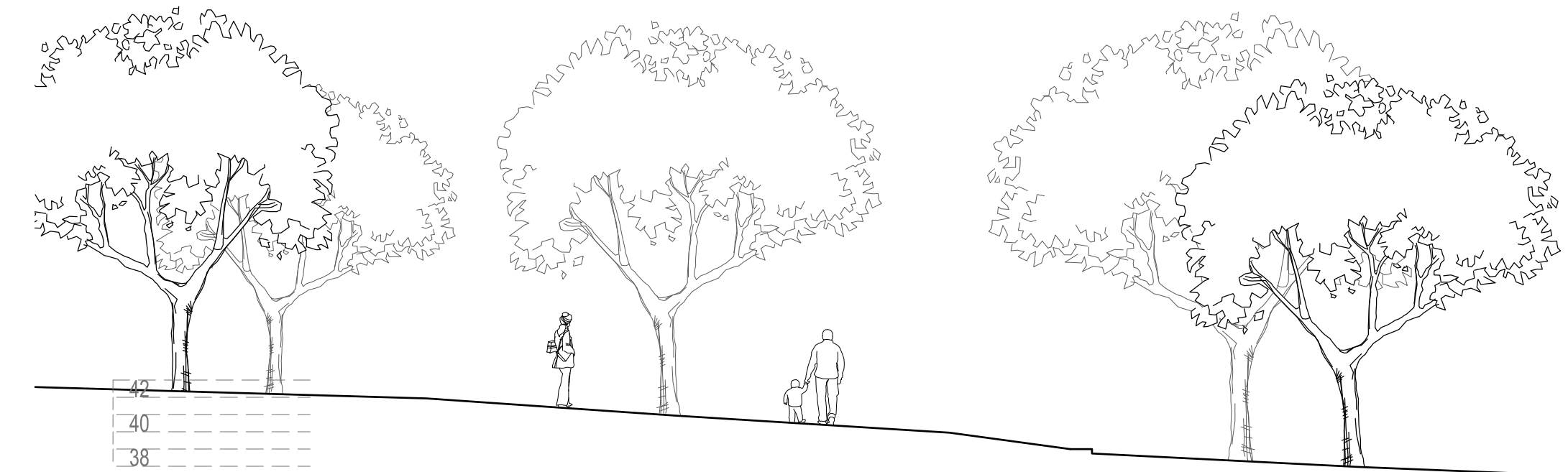
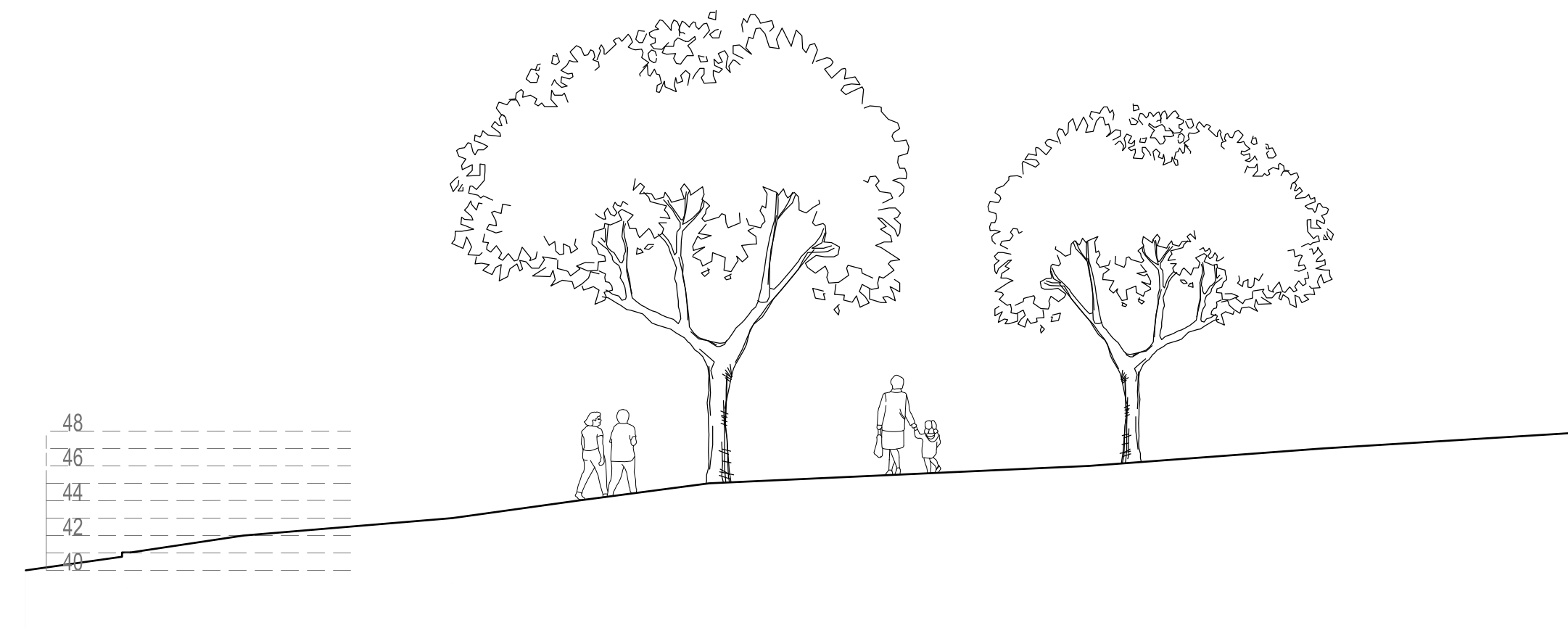
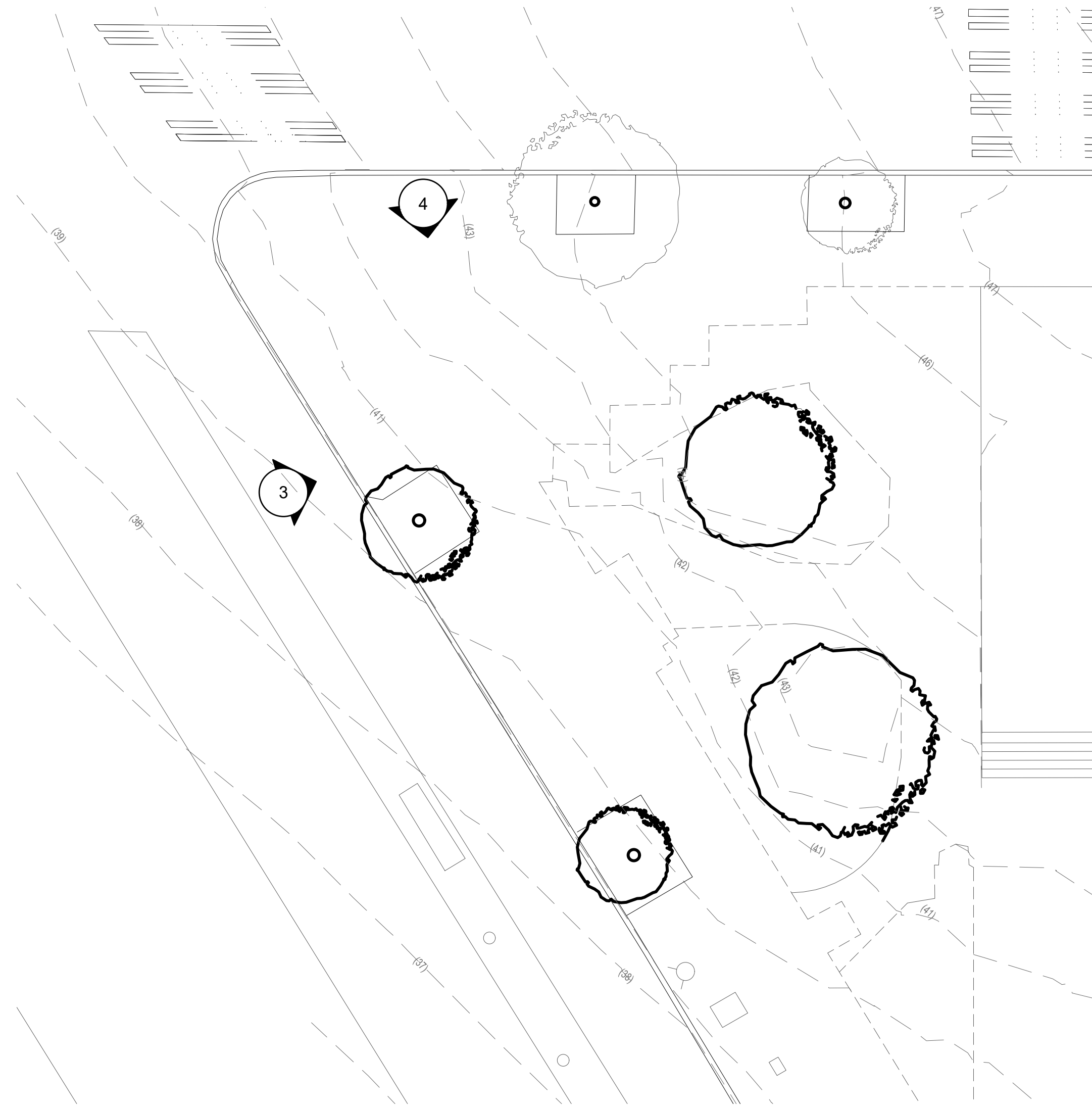
SPU NO. -  
APPROVED  
INSPECTOR'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURE SDCI PROJECT #:

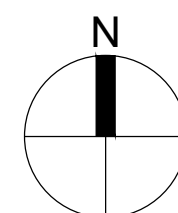
108 2ND AVE S  
DETAILS - S501  
EXT 2ND AVE S

SDOT PROJECT NO.
VAULT PLAN NO.
VAULT SERIAL NO.
SHEET OF





	DATE	MARK	NATURE OF REVISIONS	MADE	CHK'D	REV'D



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE			
DESIGNED	XXX	11/02/21	
CHECKED	XXX	11/02/21	
DRAWN	JMH	12/01/21	
CHECKED	MNH	12/01/21	
DESIGN REVIEW			

All work done in accordance with the City of St. Louis regulations in effect on the date shown above, and

INITIALS AND DATE	
REVIEWED:	.....
PROJECT MANAGER	.....
REVISED AS-BUILT.....	.....

Seattle Standard Plans and Specifications  
supplemented by Special Provisions.



WORK ORDER NO: -	SPU NO. -
PERMIT NO: -	APPROVED
SCALE: H. 1=10' V. 1=5'	INSPECTOR'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURE

SDCI PROJECT #:

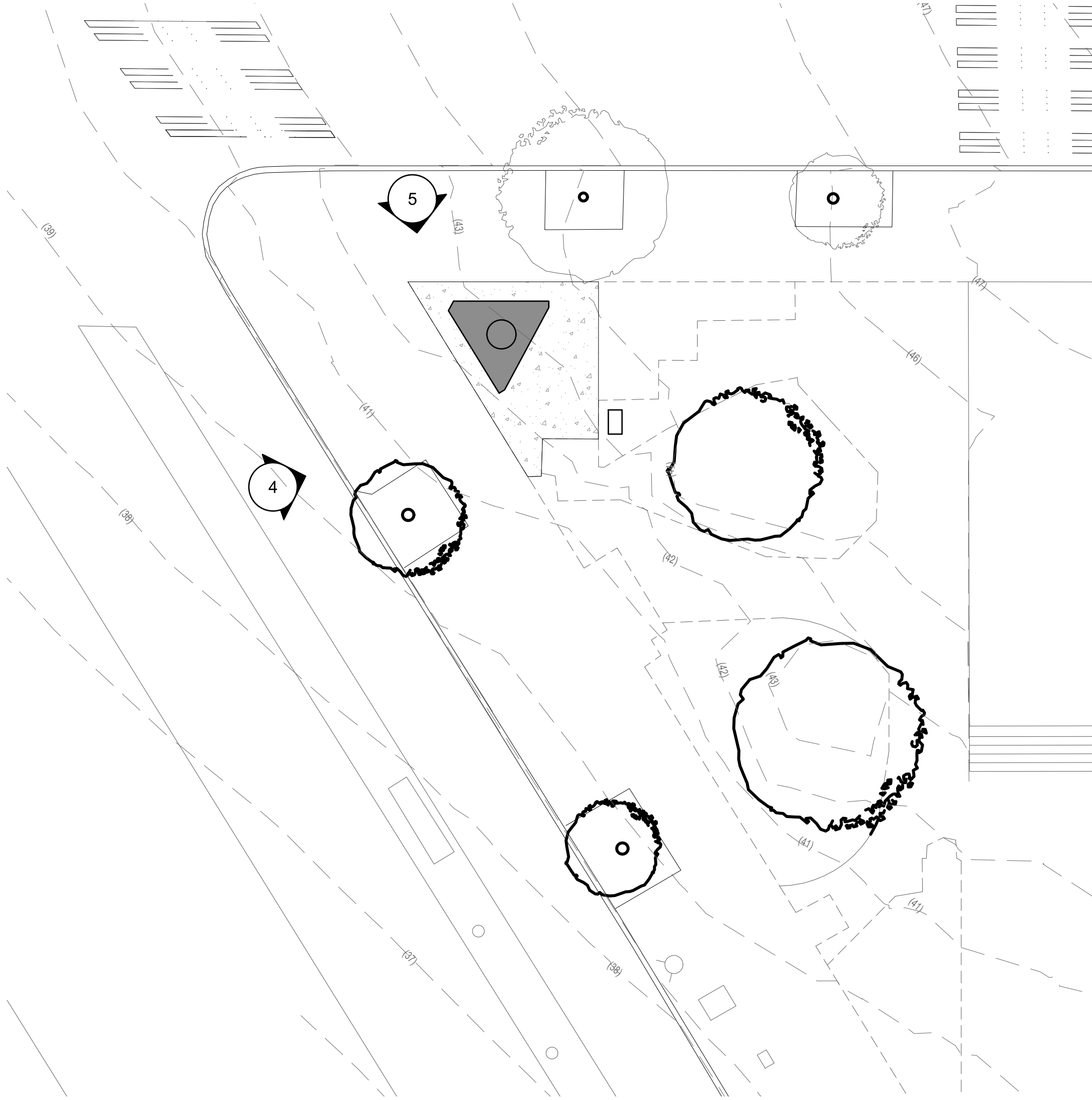
108 2ND AVE S  
EXISTING SITE PLANS AND ELEVATIONS  
EXT 2ND AVE S

SDOT PROJECT NO.
VAULT PLAN NO.
VAULT SERIAL NO.
<b>SHEET                      OF</b>

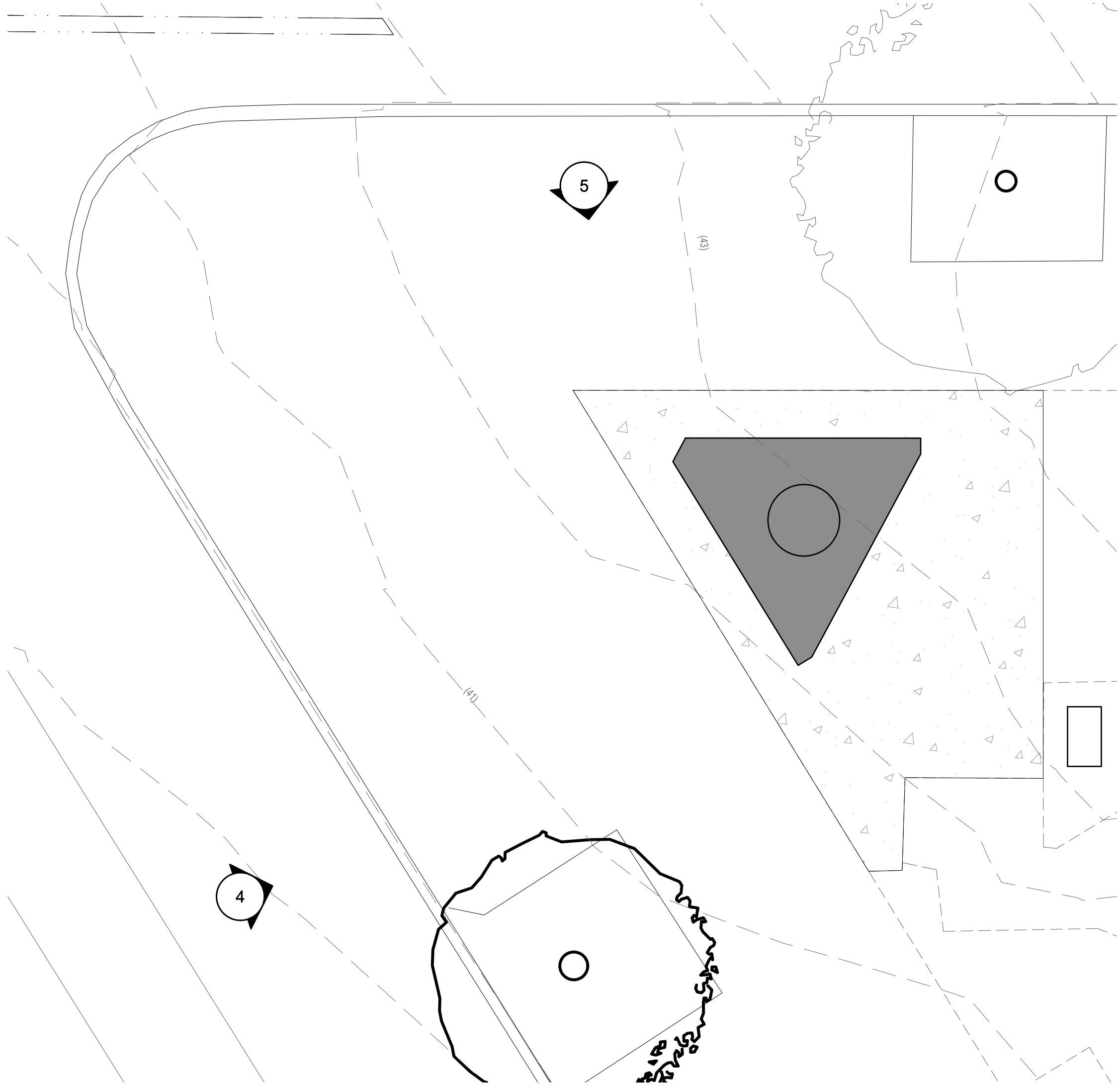




1 EXISTING SITE  
SCALE: NTS



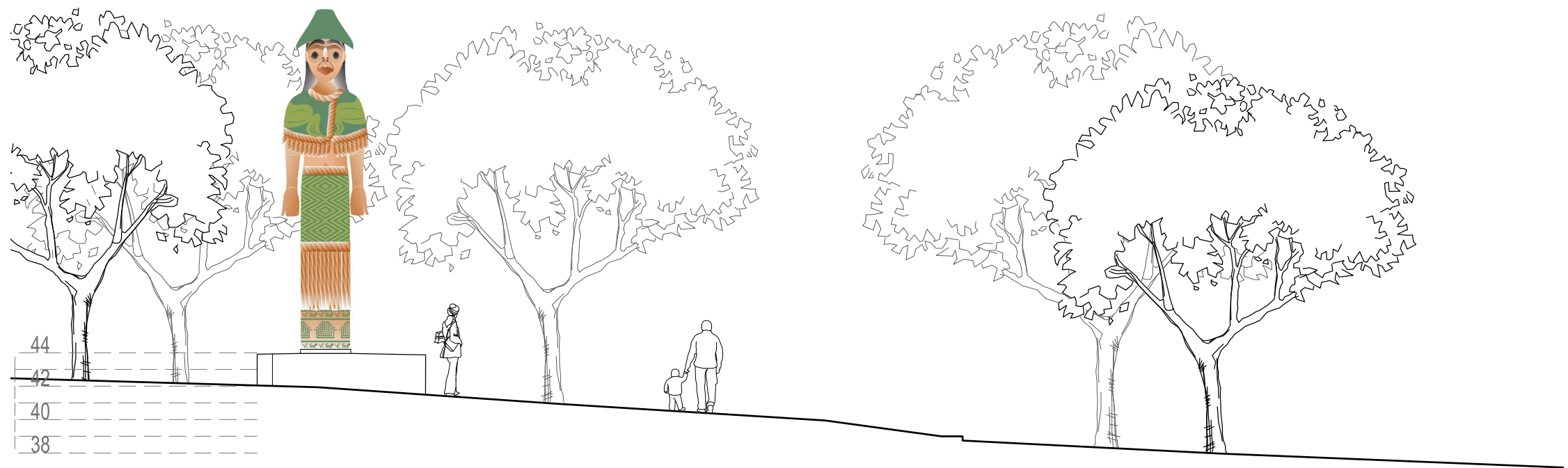
2 AREA PLAN  
SCALE: 1" = 10'-0"



3 SITE PLAN  
SCALE: 1/4" = 1'-0"

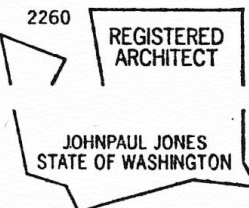
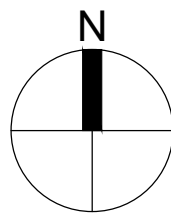


4 WEST ELEVATION  
SCALE: 1/8" = 1'-0"



5 NORTH ELEVATION  
SCALE: 1/8" = 1'-0"

DATE	MARK	NATURE	REVISIONS	MADE	CHK'D	REV'D



JONES & JONES

ARCHITECTS  
LANDSCAPE ARCHITECTS  
PLANNERS

105 SOUTH MAIN STREET  
SUITE 300  
SEATTLE, WA 98104  
206.624.5702  
www.jonesandjones.com

REVIEWED BY SPU/WATER ENGINEERING

20.....

REVIEWED BY SPU/DRAINAGE

20.....

APPROVED BY SDOT STREET IMPROVEMENT PERMITTING

20.....

NAME OR INITIALS AND DATE

DESIGNED: . . . . . XXX . . . . . 11/02/21

CHECKED: . . . . . XXX . . . . . 11/02/21

DRAWN: . . . . . JMH . . . . . 12/01/21

CHECKED: . . . . . MNH . . . . . 12/01/21

DESIGN REVIEW

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

INITIALS AND DATE

REVIEWED:

PROJECT MANAGER

REVISED AS-BUILT.....



City of Seattle  
Seattle Department  
of Transportation

WORK ORDER NO: -

PERMIT NO: -

SCALE: H. 1=10' V. 1=5'

SPU NO. -

APPROVED

INSPECTOR'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURE

SDCI PROJECT #:

108 2ND AVE S  
SITE PLANS AND ELEVATIONS  
EXT 2ND AVE S

SDOT PROJECT NO.

VAULT PLAN NO.

VAULT SERIAL NO.

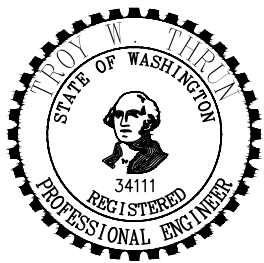
SHEET OF

60% SIP SUBMISSION - 12/1/2021



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DATE	MARK	REVISIONS	
		NATURE	MADE CHK'D REVD



**JONES & JONES**  
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PLANNERS  
185 SOUTH MAIN STREET  
SUITE 300  
SEATTLE, WA 98104  
206.624.5702  
www.jonesandjones.com

**Stantec**  
720 3rd Avenue Suite 1500  
Seattle Washington 98104-1878  
(206) 667-0555

REVIEWED BY SPU/WATER ENGINEERING	20....
REVIEWED BY SPU/DRAINAGE	20....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20....

NAME OR INITIALS AND DATE DESIGNED . . . XXX . . . . . CHECKED . . . XXX . . . . . DRAWN . . . . . XXX . . . . . CHECKED . . . . . XXX . . . . .	DESIGN REVIEW . . . . .
All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.	

INITIALS AND DATE REVIEWED: .....	PROJECT MANAGER .....
DESIGNED AS-BUILT.....	



**City of Seattle**  
**Seattle Department**  
**of Transportation**

WORK ORDER NO: -- SPU NO. --  
PERMIT NO: -- APPROVED  
SCALE: H. 1=10' V. 1=5' INSPECTOR'S BOOK



CHIEF SEATTLE CLUB WELCOME FIGURE

SDCI PROJECT #:

108 2ND AVE S  
ELECTRICAL LEGEND AND ABBREVIATIONS  
EXT 2ND AVE S

SDOT PROJECT NO.
VAULT PLAN NO.
VAULT SERIAL NO.
SHEET 1 OF 3

# SYMBOLS AND ABBREVIATIONS

## ELECTRONIC SECURITY

---	DEVICE IDENTIFICATION
	CCTV CAMERA
	CCTV CAMERA, 360° FIELD OF VIEW
	CCTV CAMERA, FIXED POSITION
	CCTV CAMERA, OPERATIONAL
	CCTV CAMERA, PAN/TILT/ZOOM
	LOCAL ALARM
	CCTV MONITOR
	VOICE DURESS ALARM (WALL MOUNTED)
	VOICE DURESS ALARM WITH STROBE (WALL MOUNTED)
	VOICE DURESS ALARM WITH STROBE (PEDESTAL MOUNTED)
	MASTER INTERCOM STATION, AUDIO ONLY
	MASTER INTERCOM STATION, AUDIO/VIDEO
	MASTER INTERCOM STATION, AUDIO ONLY, DOOR RELEASE
	MASTER INTERCOM STATION, AUDIO/VIDEO, DOOR RELEASE
	SLAVE INTERCOM STATION, AUDIO ONLY
	SLAVE INTERCOM STATION, AUDIO/VIDEO
	SLAVE INTERCOM STATION, AUDIO ONLY, DOOR INTERCONNECT
	SLAVE INTERCOM STATION, AUDIO/VIDEO, DOOR INTERCONNECT
	MOTION DETECTOR (WALL MOUNTED)

## CONTROLS

	FUSED DISCONNECT SWITCH (FUSE RATING INDICATED)
	DISCONNECT SWITCH
	MOTOR STARTER
	MANUAL MOTOR STARTER
	COMBINATION MOTOR STARTER FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	CONTACTOR
	PUSH BUTTON CONTROL STATION
	AUTO DOOR PUSHPLATE
	EMERGENCY SHUTDOWN
	MOTOR RATED TOGGLE SWITCH
	BUSWAY PLUG
	DIRECT DIGITAL CONTROL PANEL
	RELAY, CONTROL TYPE
	THERMOSTAT
	TIME CLOCK
	VARIABLE FREQUENCY DRIVE

## PANELBOARDS

	208V SYSTEM PANELBOARD
	480V SYSTEM PANELBOARD

## SITE AND LANDSCAPE LIGHTING

	LIGHTING STANDARD: FIXTURES, POLE, AND BASE
N/A	LAMP POST
N/A	SITE LIGHTING BOLLARD
N/A	IN-GROUND FIXTURE
N/A	AIMED IN-GROUND FIXTURE
N/A	EXTERIOR RECESSED ACCENT FIXTURE
N/A	EXTERIOR SURFACE MOUNTED ACCENT FIXTURE
N/A	EXTERIOR SEMI-RECESSED ACCENT FIXTURE
N/A	EXTERIOR DOWNLIGHT FIXTURE
N/A	EXTERIOR MONOPOINT FIXTURE
N/A	STEP LIGHT
XXX XXXX	FIXTURE IDENTIFICATION, SEE LIGHTING FIXTURE SCHEDULE

## LIGHTING SWITCHES AND CONTROLS

	LOWER-CASE LETTER NEAR SWITCH DENOTES CIRCUIT CONTROLLED (TYP)
	SINGLE POLE SWITCH
	DOUBLE POLE SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	KEY OPERATED SWITCH
	MOMENTARY CONTACT, LOW VOLTAGE SWITCH
	OCCUPANCY SENSOR SWITCH
	SWITCH WITH PILOT LIGHT
	PHOTOCELL SWITCH
	TIMER SWITCH
	DIMMER SWITCH
	CONTROL STATION, # INDICATES STATION IDENTIFICATION
	DIMMING SYSTEM CONTROLS
	EMERGENCY LIGHTING CONTROL UNIT
	CEILING MOUNTED OCCUPANCY SENSOR SWITCH
	PHOTOCELL CONTROL
	PHOTO SENSOR CONTROL
	RELAY, NEC CLASS II
	LOW VOLTAGE TRANSFORMER

## ELECTRICAL RISER

---	FEEDER SIZE IDENTIFICATION
	AVAILABLE FAULT CURRENT IDENTIFICATION
	ARRESTOR, SURGE
	ARRESTOR, LIGHTNING
	AUTOMATIC TRANSFER SWITCH
	BUS SPACE
	BUS DUCT
	BUSWAY END TAP BOX
	CABLE TO BUS CONNECTION
	CAPACITOR
	CONTACT, NORMALLY OPEN AND NORMALLY CLOSED
	CIRCUIT BREAKER
	CIRCUIT BREAKER, DRAWOUT
	CIRCUIT BREAKER, DRAWOUT, MEDIUM VOLTAGE
	CIRCUIT BREAKER, GFI
	CIRCUIT BREAKER, GFI WITH DRAWOUT
	CIRCUIT BREAKER, MAGNETIC OVERLOAD
	CIRCUIT BREAKER, NETWORK PROTECTOR
	CIRCUIT BREAKER, THERMAL OVERLOAD
	FUSE OR CURRENT LIMITER
	FUSE (ISOLATING)
	FUSED SWITCH
	GROUND
	PUSHBUTTON
	SPLICE
	STRESS RELIEF, MEDIUM VOLTAGE
	SWITCH, 2-POLE
	SWITCH, 3-POLE
	THERMAL ELEMENT
	TRANSFORMER
	TRANSFORMER, CURRENT
	TRANSFORMER, ELECTROSTATICALLY SHIELDED, MAGNETIC CORE SHOWN
	TRANSFORMER, MAGNETIC CORE SHOWN
	TRANSFORMER, SHIELDED, MAGNETIC CORE SHOWN
	AMMETER
	CONTACTOR
	ENGINE-GENERATOR
	KEY INTERLOCK
	METER
	POWER METER
	RELAY
	RELAY, GFI
	SURGE PROTECTIVE DEVICE

## EQUIPMENT

	EQUIPMENT CABINET
	EQUIPMENT CONNECTION, E = EMERGENCY POWER
	GROUND BAR, LENGTH TO SCALE
	MOTOR CONNECTION, SINGLE PHASE
	MOTOR CONNECTION, 3 PHASE
	POWER BUSWAY
	SURGE PROTECTIVE DEVICE
	TRANSFORMER, <30KVA, NOT TO SCALE
	TRANSFORMER, 30KVA OR GREATER, DRAWN TO SCALE

## RECEPTACLES

	SINGLE RECEPTACLE 120V
	DUPLEX RECEPTACLE 120V
	DOUBLE DUPLEX RECEPTACLE 120V
	SPLIT WIRED RECEPTACLE, 120V, TOP SWITCHED
	RECEPTACLE 208V OR 240V, SINGLE PHASE
N/A	RECEPTACLE 208V OR 240V, THREE PHASE
N/A	COMBINATION RECEPTACLE 120/208V OR 120/240V, SINGLE PHASE
N/A	RECEPTACLE 480V, SINGLE PHASE
N/A	RECEPTACLE 480V, THREE PHASE
	SINGLE RECEPTACLE 120V (TWIST LOCK)
	DUPLEX RECEPTACLE 120V (TWIST LOCK)
N/A	RECEPTACLE 208V OR 240V, SINGLE PHASE (TWIST LOCK)
N/A	RECEPTACLE 208V OR 240V, THREE PHASE (TWIST LOCK)
N/A	COMBINATION RECEPTACLE 120/208V OR 120/240V, SINGLE PHASE (TWIST LOCK)
N/A	RECEPTACLE 480V, SINGLE PHASE (TWIST LOCK)
N/A	RECEPTACLE 480V, THREE PHASE (TWIST LOCK)
N/A	CLOCK RECEPTACLE 120V
	SINGLE RECEPTACLE, FLUSH FLOOR BOX
	DUPLEX RECEPTACLE, FLUSH FLOOR BOX
	DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR BOX
	SPLIT WIRED RECEPTACLE, 120V, FLUSH FLOOR BOX
N/A	FLOOR BOX (DEVICES AS INDICATED)
N/A	POKE THROUGH (DEVICES AS INDICATED)
N/A	POWER POLE
N/A	MULTI-OUTLET ASSEMBLY (DEVICES AS INDICATED)
	DUPLEX RECEPTACLE, SURGE PROTECTOR TYPE
	DOUBLE DUPLEX RECEPTACLE, SURGE PROTECTOR TYPE

## RECEPTACLE TYPES

	DEDICATED CIRCUIT
	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
	ISOLATED GROUND
	TAMPER RESISTANT
	GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER PROOF COVER

## CIRCUITS

	RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
	HOT (SHORT HASH MARK)
	NEUTRAL (LONG HASH MARK)
	GROUND WIRE (JOGGED HASH MARK)
	EXISTING RACEWAY (IF HASH MARKS ARE SHOWN, PULL NEW CONDUCTORS)
	RACEWAY BELOW SLAB OR UNDERGROUND
	RACEWAY UP
	RACEWAY DOWN
	RACEWAY STUB-OUT WITH BUSHING
	CIRCUIT CONTINUATION
	HOME RUN TO PANEL OR LOCATION NOTED
	JUNCTION BOX
	PULL BOX

## GENERAL NOTES

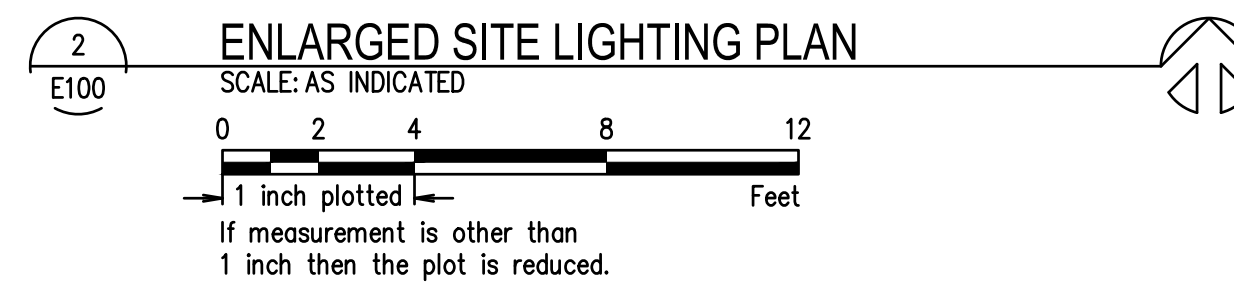
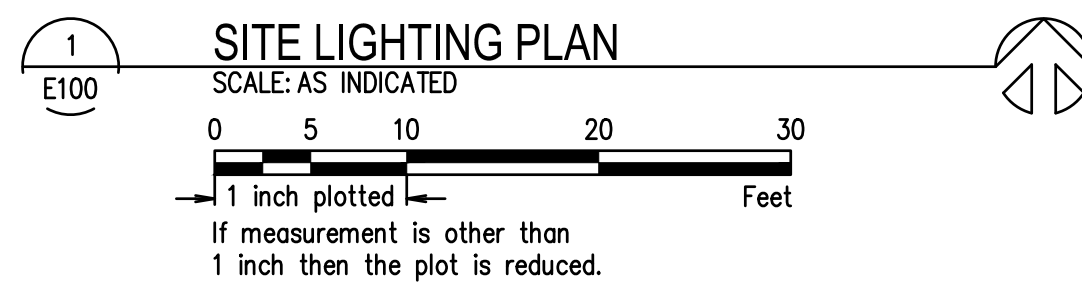
- COMPLY WITH THE NATIONAL ELECTRICAL CODE AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE LOCATIONS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES INDICATED ON ARCHITECTURAL PLANS ELEVATIONS OR SECTIONS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE ELECTRICAL DRAWINGS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS.
- FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL ALSO BE FUNCTIONALLY TESTED TO ENSURE IT IS OPERATING IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

## ABBREVIATIONS

A, AMP	AMPERE	FB	FLOOR BOX	POS	POSITION/POINT OF SALE
ABV	ABOVE	FBOIC	FURNISHED BY OTHERS, INSTALLED BY CONTRACTOR	PR	PAIR
AC	3" ABOVE COUNTER BACKSPLASH	FI	FILM ILLUMINATOR	PTS	PNEUMATIC TUBE STATION
ACH	ABOVE COUNTER HEIGHT	FO	FIBER OPTIC(AL)	R	RACEWAY
AFF	ABOVE FINISHED FLOOR	FOC	FACE OF COLUMN	RO	RACEWAY ONLY
AG	ABOVE GRADE	G,GND	GROUND	RECEPT	RECEPTACLE
AIC	AMPERE INTERRUPTING CAPACITY	GD	GARBAGE DISPOSAL	REF	REFRIGERATOR
ATS	AUTOMATIC TRANSFER SWITCH	GFI,GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SLV	SLEEVE
AWG	AMERICAN WIRE GAUGE	HH	HAND HOLE	SM	SINGLEMODE
AV, A/V	AUDIO/VISUAL	HP	HORSEPOWER	SPECS	SPECIFICATIONS
CATV	COMMUNITY ACCESS TELEVISION	IH	INSTA-HOT WATER DISPENSER	SW	SWITCH
CB	CIRCUIT BREAKER	J-BOX	JUNCTION BOX	SWBD	SWITCHBOARD
CCTV	CLOSED CIRCUIT TELEVISION	LR	LEGALLY REQUIRED	TELECOM	TELECOMMUNICATIONS
CKT	CIRCUIT	LS	LIFE SAFETY BRANCH	TGB	TELECOMMUNICATIONS GROUNDING
CLG	CEILING	MAG	MAGNETIC		BUSBAR
CM	CEILING MOUNTED	MCC	MOTOR CONTROL CENTER	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
COMM	COMMUNICATIONS	MH	MANHOLE	TR	TELECOMMUNICATIONS ROOM
C	CONDUIT	MM	MULTIMODE	TV	TELEVISION
CO	CONDUIT ONLY	MTD	MOUNTED	TYP	TYPICAL
CTRL	CONTROL	MW	MICROWAVE	UF	UNDER FLOOR
CU	COPPER	N	NEUTRAL	UG	UNDER GROUND
D	DATA	NIC	NOT IN CONTRACT	UON	UNLESS OTHERWISE NOTED
DED	DEDICATED	NTS	NOT TO SCALE	UTP	UNSHIELDED TWISTED PAIR
DEV	DEVICE	OPER	OPERATER/OPERABLE	V	VOLT OR VOICE
DN	DOWN	OPOI	OWNER PROVIDED OWNER INSTALLED	VEL	VERIFY EXACT LOCATION
DW	DISHWASHER	OS	OCCUPANCY SENSOR, OPTIONAL	W	WIRE, WATT, OR WALLPHONE
EF	ENTRANCE FACILITY		STANDBY	WAP	WIRELESS ACCESS POINT
ER	EQUIPMENT ROOM/EMERGENCY ROOM	PB	PULLBOX	WP	WEATHERPROOF
EWC	ELECTRIC WATER COOLER	PNL	PANEL, PANELBOARD	XFMR	TRANSFORMER
FA	FIRE ALARM			ø	PHASE

60% SIP SUBMISSION - 12/1/2021





1. L01 AND L02 FIXTURES REQUIRE REMOTE DRIVERS LOCATED IN WET-RATED ENCLOSURE. ENCLOSURE AND ITS LOCATION ARE TBD.
2. LIGHTING CIRCUITS SHALL BE CONNECTED TO THE NEXT AVAILABLE SPARE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL L1H (208/120V, 150A, MLO) LOCATED IN THE ?g?d BUILDING MAIN ELECTRICAL ROOM AND ROUND THROUGH THE BUILDING LIGHTING CONTROL PANEL FOR ASTRONOMICAL TIME CLOCK CONTROL.
3. TYPE L02 FIXTURES SHALL BE ON FROM DUSK UNTIL DAWN. TYPE L01 FIXTURES SHALL BE ON FROM DUSK UNTIL MIDNIGHT AND FROM 6AM UNTIL DAWN TO MEET THE LIGHTING SETBACK REQUIREMENTS OF 2018 SEATTLE ENERGY CODE SECTION C405.2.6.3.

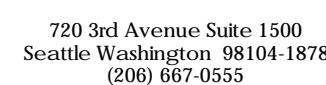
- 1 PROVIDE 17"x30"x24" POLYMER CONCRETE HAND HOLE WITH GASKETED COVER AND BOLT GROMMETS, HUBBELL QUAZITE PG STYLE OR APPROVED EQUAL LOCATE DRIVERS FOR TYPE L01 AND L02 LIGHT FIXTURES IN HAND HOLE.
- 2 EXISTING 1" CONDUIT ROUTED TO MAIN ELECTRICAL ROOM IN 2nd FLOOR BUILDING PROVIDED UNDER A SEPARATE CONTRACT.
- 3 INTERCEPT AND EXTEND EXISTING 1" CONDUIT FROM THIS LOCATION.
- 4 4#10, 1#10 GND, 1" CONDUIT.
- 5 LOW VOLTAGE WIRING PER MANUFACTURER'S RECOMMENDATION IN 3/4" CONDUIT.

DATE	MARK	NATURE	MADE	CHK'D	REV'D



ARCHITECTS  
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SEATTLE, WA 98104  
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20.....

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20

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20....

PERMITTING

20.....

DESIGNED . . . XXX . . . . .

CHECKED. . . . . xxx . . . . .

DRAWN. . . . . XXX . . . . .  
CHECKED. . . . . YYY

CHECKED. . . . .

DESIGN REVIEW . . . . .

All work done in accordance with the City of Sec  
cations in effect on the date shown above, and

REVIEWED:

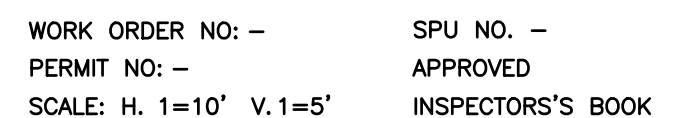
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PROJECT MANAGER

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REVISÉ AS-BUILT.....

### Little Standard Plans and Specifi- cations, supplemented by Special Provisions



WORK ORDER NO: -

PERMIT NO: —

SCALE: H. 1=10' V

SPU NO. -

APPROVED

INSPECTORS'S BOOK

SDCI PROJECT #:

SDOT PROJECT NO.

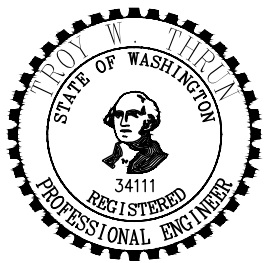
VAULT PLAN NO.

VAULT SERIAL NO.
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SHEET 2 OF 3



TYPE	DESCRIPTION	MANUFACTURER	CONTROL	LAMP		INPUT		COMMENTS
				#	CODE	WATTS	VOLT*	
L01	IN-GRADE LED ADJUSTABLE ACCENT LIGHT NOMINAL 4.9" DIAMETER X 2" DEPTH. DIE-CAST ALUMINUM HOUSING WITH STAINLESS STEEL FACEPLATE. TEMPERED GLASS LENS WITH BLACK SILK-SCREENING AND HONEYCOMB LOUVER FOR GLARE CONTROL. ABS OUTER CASING. 5" DEEP. FOR IN- GROUND INSTALLATION. LED MODULE ADJUSTABLE UP TO 20- DEGREES TILT. SPOT BEAM DISTRIBUTION OPTIC. 22- DEGREES. CONSTANT CURRENT. IP68.	INTERLUX LINEA LIGHT ORMA TRIM FLUSH ADJUSTABLE SERIES	0-10V DIMMING TO 1%	1	LED - 3000K - 1724 LM 80 CRI	12	120- 277 TO 350MA	REMOTE DRIVER LOCATED PER ELECTRICAL PLANS.
L02	IN-GRADE LED UPLIGHT NOMINAL 1.4" DIAMETER X 2.6" DEEP ANODIZED ALUMINUM HOUSING WITH STAINLESS STEEL FACEPLATE. TEMPERED GLASS LENS. GASKETED. LED REGRESSED FOR LOW GLARE. 120-DEGREE BEAM DISTRIBUTION. SUPPLY WITH OUTER CASING FOR IN-GROUND INSTALLATION. CONSTANT CURRENT. IP68.	INTERLUX LINEA LIGHT SUELO PRO AR SERIES	0-10V DIMMING TO 1%	1	LED - 3000K - 219 LM 80 CRI	2	120- 277 TO 630 MA	REMOTE DRIVER LOCATED PER ELECTRICAL PLANS.

[illegible]

ARCHITECTS  
LANDSCAPE ARCHITECTS  
PLANNERS

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# Stantec

720 3rd Avenue Suite 1500  
Seattle Washington 98104-1878  
(206) 667-0555

REVIEWED BY SPU/WATER ENGINEERING

20....

REVIEWED BY SPU/DRAINAGE

20....

APPROVED BY SDOT STREET IMPROVEMENT PERMITTING

20....

NAME OR INITIALS AND DATE
---------------------------

DESIGNED . . . XXX . . . . .  
DATE . . . . . XXX

DRAWN: YYY

CHECKED. . . . XXX . . . . .

DESIGN REVIEW . . . . .	REVISED AS-BUILT.....
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All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

INITIALS AND DATE

REVIEWED

## PROJECT MANAGER

Page 10 of 10

REVISÉ AS-BUILT.....

Supplemented by Special Provisions.



**City of Seattle**  
**Seattle Department**  
**of Transportation**

WORK ORDER NO: -

PERMIT NO: —

SCALE: H. 1=10' V. 1=10'

SPU NO. -

APPROVED

INSPECTORS'S BOOK

CHIEF SEATTLE CLUB WELCOME FIGURE

SDCI PROJECT #:

108 2ND AVE S  
LIGHTING FIXTURE SCHEDULE  
EXT 2ND AVE S

SDOT PROJECT NO.

VAULT PLAN NO.

VAULT SERIAL NO.
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SHEET 3 OF 3