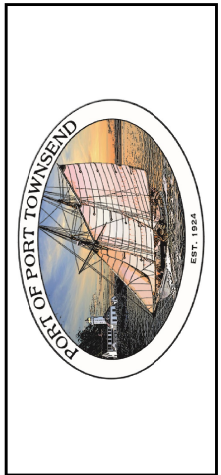
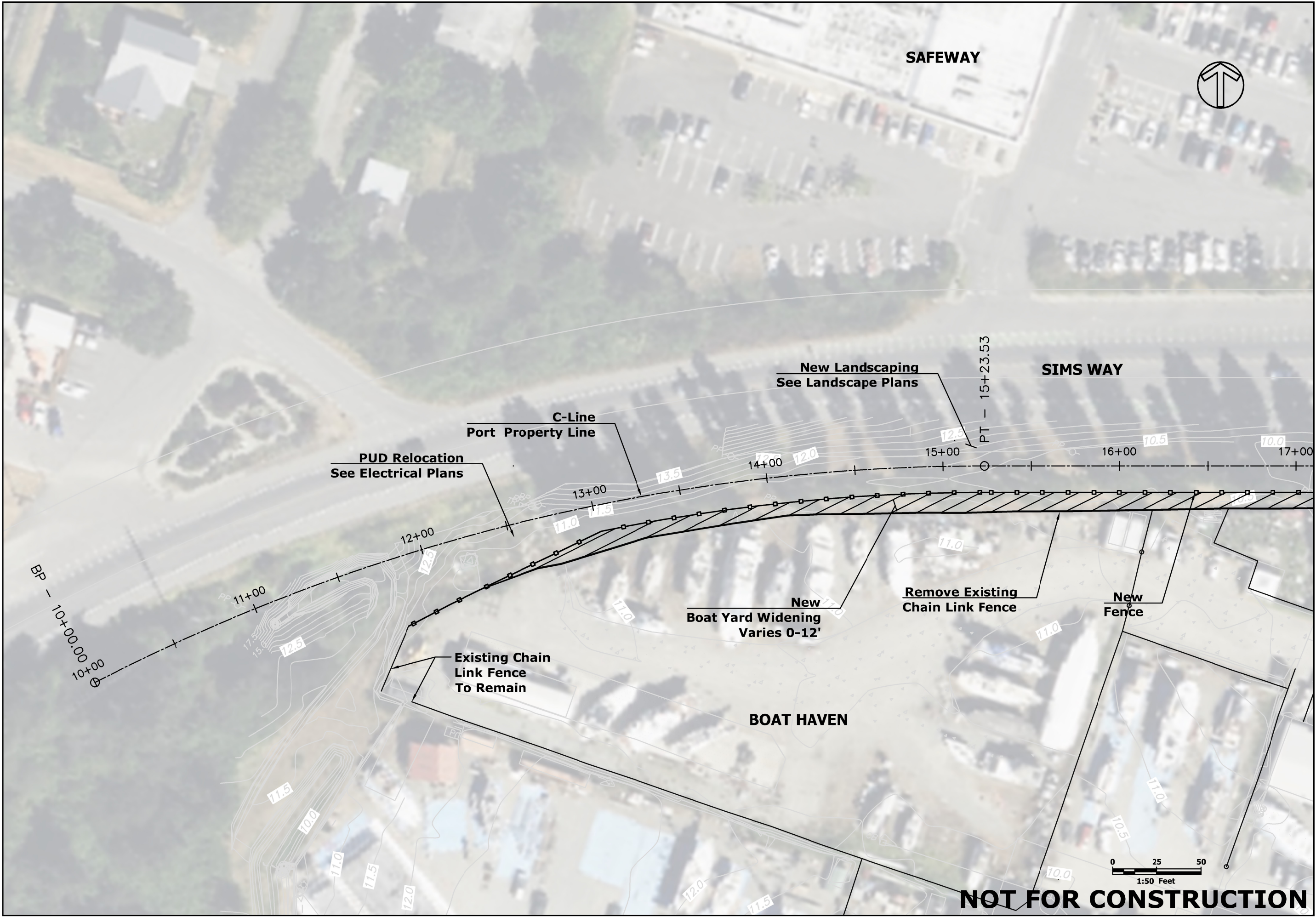
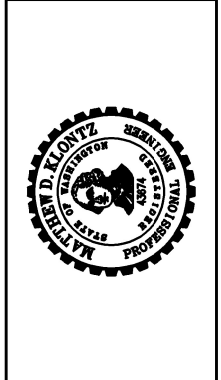


Z:\Capital Projects\Boat Haven - Sims Way Gateway and Boat Yard Expansion\_BH-01-004\05\_Design\AutoCadd\SH\_Concept Exhibit.dwg, 1/23/2025 12:54 PM, MATTHEW KLONTZ



DATE: 1/22/2018	SCALE:	NOTED:	DRAWN: MK	CHECKED: DW	APPROVED: DG
-----------------	--------	--------	-----------	-------------	--------------

		112124	DATE	APPD	
		PERMIT DRAWINGS	REVISION		
0	No.				



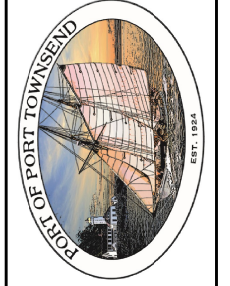
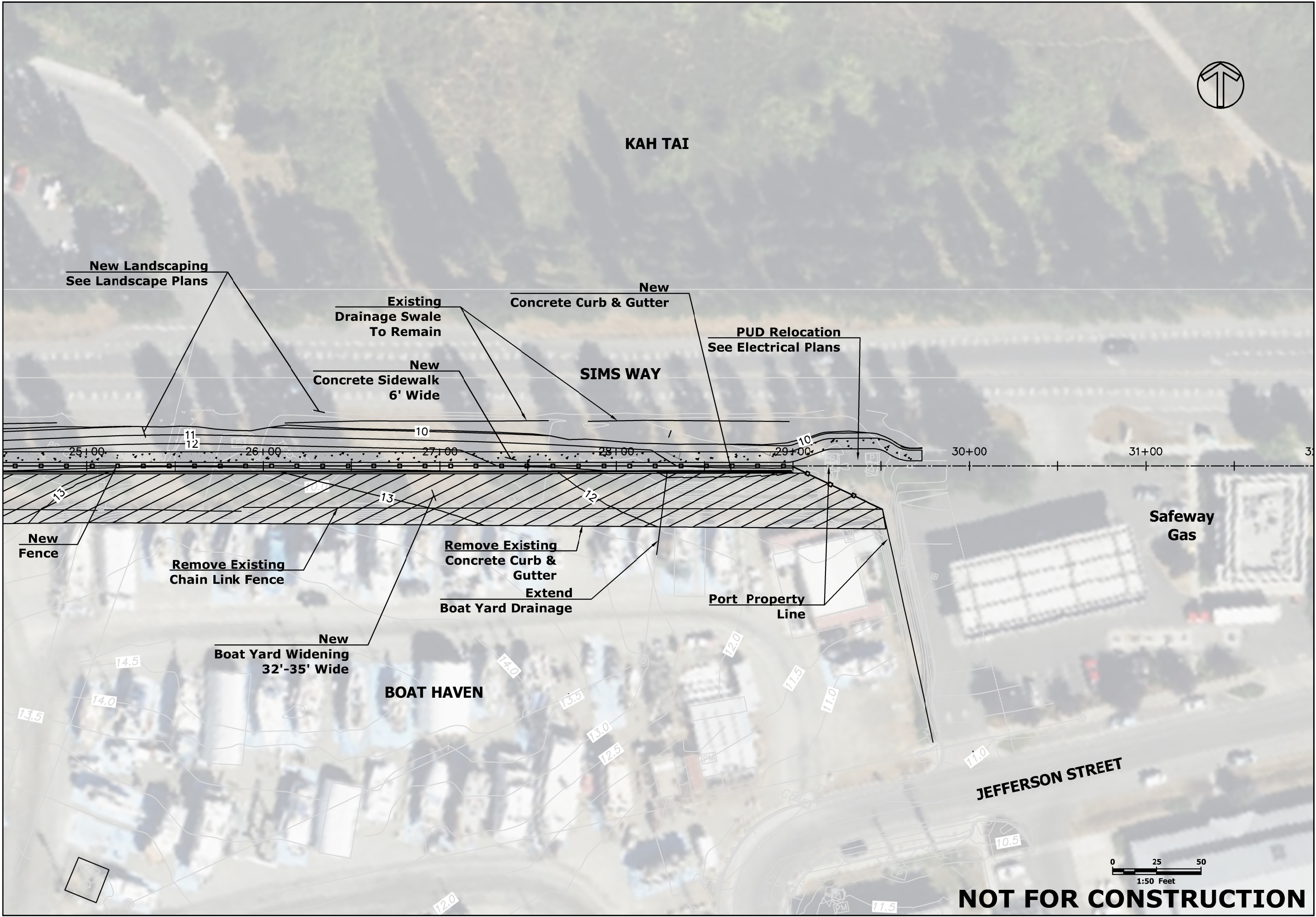
**PORT OF PORT TOWNSEND**  
JEFFERSON COUNTY WASHINGTON  
**SIMS WAY AND BOAT YARD EXPANSION**

SHEET:	
OF:	-
JOB NO.:	-----
DWGSH_CONCEPT EXHIBIT	

**NOT FOR CONSTRUCTION**



Z:\Capital Projects\Boat Haven - Sims Way Gateway and Boat Yard Expansion\_BH-01-004\05\_Design\AutoCadd\SH\_Concept Exhibit.dwg, 1/23/2025 12:56 PM, MATTHEW KLONTZ

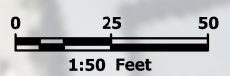


DATE: 1/22/2018	SCALE:	NOTED:	MK	DW	DG




**PORT OF PORT TOWNSEND**  
JEFFERSON COUNTY WASHINGTON  
**SIMS WAY AND BOAT YARD EXPANSION**

SHEET:	
OF:	-
JOB NO.:	-----
DWGSH_CONCEPT EXHIBIT	

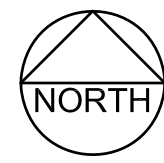


**NOT FOR CONSTRUCTION**





VICINITY MAP  
NO SCALE



**CLIENT:**

**PORT OF PORT TOWNSEND**  
2701 JEFFERSON STREET  
P.O. BOX 1180  
PORT TOWNSEND, WA 98368

CONTACT:  
MATTHEW KLONTZ  
DIRECTOR OF CAPITAL PROJECTS/PORT ENGINEER  
PHONE: 360-385-0656  
EMAIL: matt@portoft.com

**CONSULTANTS:**

**MACLEOD RECKORD, PLLC - LANDSCAPE ARCHITECTS**  
110 PREFONTAINE PLACE SOUTH, SUITE 600  
SEATTLE, WA 98104  
CONTACT: CONNIE RECKORD  
PHONE: 206-323-7919

**TREE SOLUTIONS, INC.**  
2940 WESTLAKE AVE N #200  
SEATTLE, WA 98109  
PHONE: 206-528-4670

**SHEET INDEX:**

- COVER SHEET
- G1.0 – LEGEND, NOTES, AND ABBREVIATIONS
- G1.1 – SHEET INDEX
- S1.0 – SURVEY
- S1.1 – SURVEY
- D1.0 – SITE PREPARATION
- D1.1 – SITE PREPARATION
- D1.2 – SITE PREPARATION DETAILS – NOT INCLUDED
- L1.0 – LAYOUT PLAN
- L1.1 – LAYOUT PLAN
- L2.0 – PLANTING PLAN
- L2.1 – PLANTING PLAN
- L2.2 – PLANTING SCHEDULE
- L2.3 – PLANTING DETAILS
- L3.0 – IRRIGATION PLAN
- L3.1 – IRRIGATION PLAN
- L3.2 – IRRIGATION LEGEND AND DETAILS – NOT INCLUDED
- L3.3 – IRRIGATION DETAILS – NOT INCLUDED
- L4.0 – TRAIL CONSTRUCTION DETAILS

# SIMS WAY GATEWAY AND BOATYARD EXPANSION

PORT TOWNSEND, WASHINGTON

30% PRELIMINARY DESIGN

9/26/2024

**ABBREVIATIONS:**

⊙	AT	MAX	MAXIMUM
#	NUMBER	MFR	MANUFACTURER
%	PERCENT	MH	MANHOLE
ADD	ADDITIVE	MIN	MINIMUM
ALT	ALTERNATE	N	NORTH
ADJ	ADJACENT	NE	NORTH EAST
AVE	AVENUE	NIC	NOT IN CONTRACT
BS	BOTTOM OF STAIR	NTS	NOT TO SCALE
CB	CATCH BASIN	NW	NORTH WEST
CIP	CAST IN PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
⊕	CENTER LINE	OR	OWNER'S REPRESENTATIVE
CLR	CLEAR	PE	POLYETHYLENE PIPE
CMP	CORRUGATED METAL PIPE	POB	POINT OF BEGINNING
CO	CLEANOUT	PT	PRESSURE TREATED
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONT	CONTAINER	QTY	QUANTITY
CPP	CORRUGATED PERFORATED PIPE	R	RADIUS
CRZ	CRITICAL ROOT ZONE	RET	RETAINING
CSBC	CRUSHED SURFACING BASE COURSE	S	SOUTH
CSTC	CRUSHED SURFACING TOP COURSE	SCH	SCHEDULE
DI	DUCTILE IRON PIPE	SD	STORM DRAIN
DIA	DIAMETER	SDMH	STORM DRAIN MANHOLE
E	EAST	SE	SOUTH EAST
EA	EACH	SF	SQUARE FOOT
EJ	EXPANSION JOINT	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
EX	EXISTING	SSMH	SANITARY SEWER MANHOLE
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	ST	STREET
GA	GAUGE	SS	STAINLESS STEEL
GAL	GALVANIZED	SW	SOUTH WEST
GV	GATE VALVE	TBD	TO BE DETERMINED
HMA	HOT MIX ASPHALT	TC	TOP OF CURB
HORIZ	HORIZONTAL	TS	TOP OF STAIR
HT	HEIGHT	TYP	TYPICAL
IE	INVERT ELEVATION	VB	VALVE BOX
JNT	JOINT	VERT	VERTICAL
LCPE	LINED CORRUGATED POLYETHYLENE PIPE	W	WEST
LF	LINEAR FOOT	WM	WATER METER
LOW	LIMIT OF WORK	WWM	WELDED WIRE MESH

**SURVEY LEGEND:**

●	SET 5/8" REBAR WITH PLASTIC SURVEY CAP STAMPED: "CLARK 38956". (6/15/17)
■	FOUND REBAR WITH PLASTIC SURVEY CAP STAMPED: "LS XXXXX".
▲	FOUND REBAR WITH PLASTIC SURVEY CAP STAMPED: "LS XXXXX".
CB □	CATCH BASIN.
FH ○	FIRE HYDRANT.
IRR ⊗	IRRIGATION VALVE.
⊗	ELECTRICAL CABINET.
☼	LIGHT POLE.
□	MAIL BOX.
CO ○	SANITARY SEWER CLEANOUT.
⊙	SANITARY SEWER MANHOLE.
⊙	STORM DRAIN MANHOLE.
TR □	TELEPHONE RISER.
PP ○	POWER POLE.
PM □	POWER METER.
△	POWER TRANSFORMER.
P □	POWER VAULT.
↖	GUY ANCHOR.
⋈	WATER SPIGOT.
WM ⊞	WATER METER.
WV ⊗	WATER VALVE.
⊗	VALVE.
⊗	BOLLARD.
V □	VAULT.
T □	TELEPHONE VAULT.
○	SIGN.
⊙	DRAIN.
▨	EXISTING CONCRETE.
▨	EXISTING GRAVEL DRIVEWAY.
▨	EXISTING ASPHALT ROAD.

**NOTES ON USE OF PLANS:**

- ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR. NOTIFY ENGINEER OF ANY CONFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THE CONTRACT DRAWINGS OR SPECIFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION.
- ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS.
- THESE CONTRACT DRAWINGS CONTAIN DATA INTENDED SPECIFICALLY FOR THE NOTED PROJECT AND CLIENT. THEY ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS PROJECT OR FOR REUSE ON ANY OTHER PROJECT.
- THE MODIFICATION OF THIS DOCUMENT OR ANY OTHER PORTION THEREOF WITHOUT WRITTEN PERMISSION OF MACLEOD RECKORD AND ITS CONSULTANTS IS PROHIBITED.
- THE GRAPHICAL INFORMATION CONTAINED IN ELECTRONIC FILES IS INTENDED AS DRAWING DATA ONLY. IT IS NOT INTENDED TO SERVE AS SURVEY LAYOUT DATA.
- CAD FILES WILL BE PROVIDED TO THE AWARDED BIDDER UPON SIGNING AN ELECTRONIC FILE DISCLAIMER.

**SYMBOLS LEGEND:**

<b>1</b>	<b>DETAIL TITLE</b>	DETAIL NUMBER AND TITLE
SCALE		
<b>1</b>	<b>DETAIL TITLE</b>	DETAIL CALL OUT
L4.0		

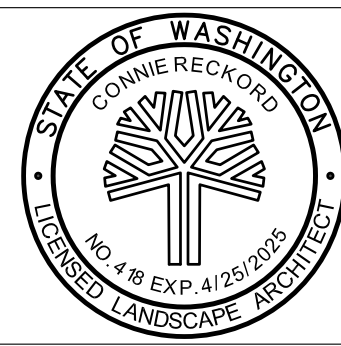
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CAD\Working\SWGB-COVER.dwg PLOTTED: Thursday, September 26, 2024 - 8:56am USER: jrmast

REVISIONS:	DATE



PORT OF PORT TOWNSEND  
2701 JEFFERSON STREET  
P.O. BOX 1180  
PORT TOWNSEND, WA 98368

**MacLeod Reckord** PLLC  
110 Prefontaine Place South, Suite 600  
Seattle, Washington 98104  
P 206-323-7919  
F 206-323-9242



**Call before you Dig.**  
1-800-424-5555  
UNDERGROUND SERVICE (USA)

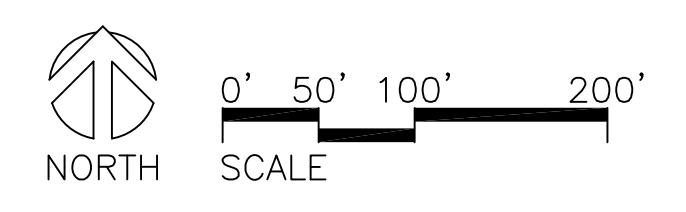
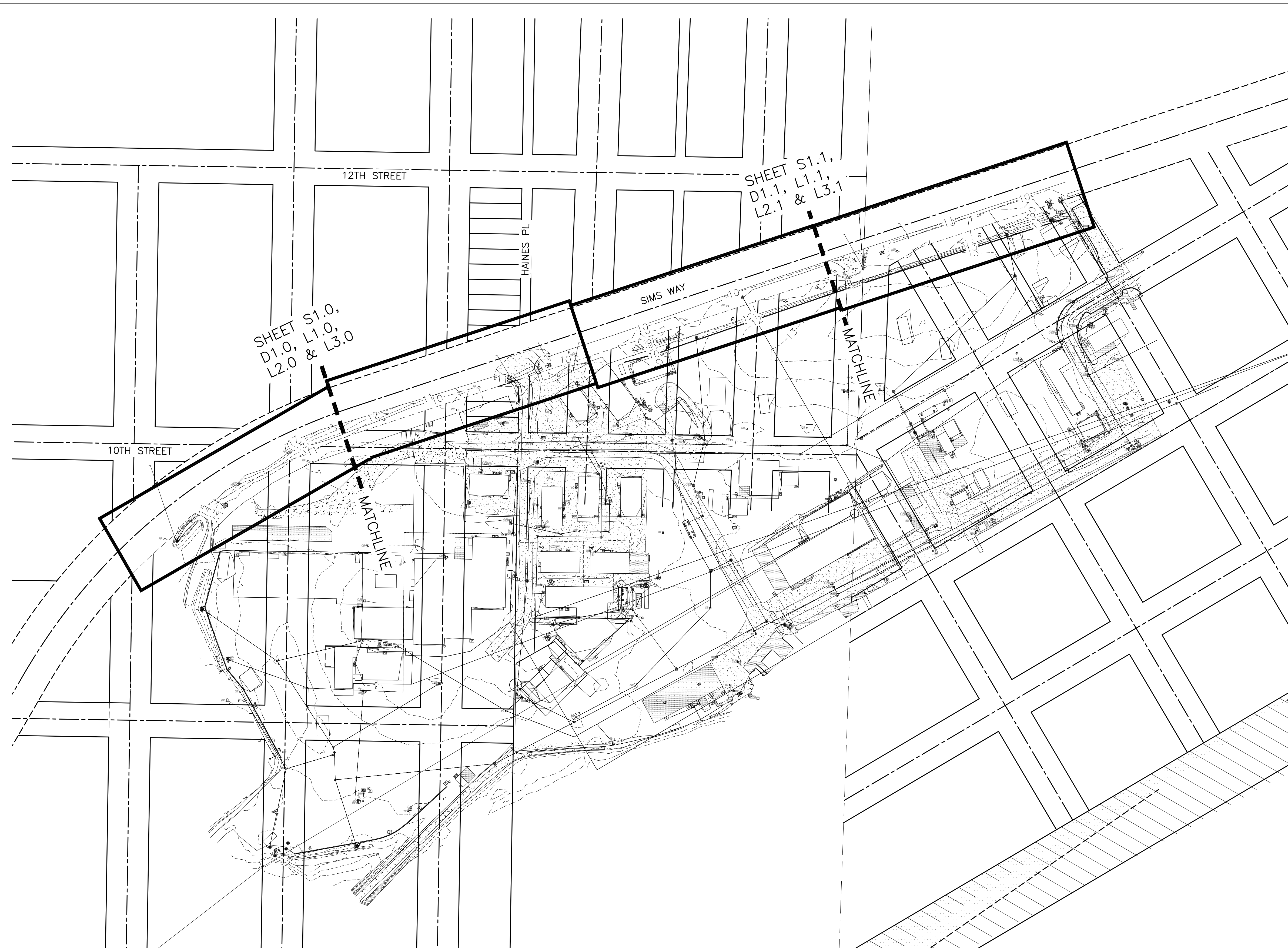
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE:	AS SHOWN
DATE:	SEPT 2024
DRAWN BY:	J.D.
CHECKED BY:	C.R.
JOB NO.:	

**LEGEND, NOTES, AND ABBREVIATIONS**

SHEET  
**G1.0**

FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-SRVY.dwg PLOTTED: Thursday, September 26, 2024 - 1:44pm USER: jameed

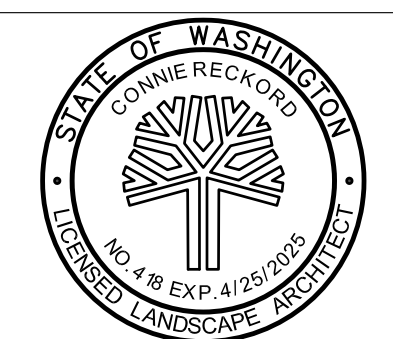


REVISIONS:	DATE



PORT OF PORT TOWNSEND  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord** PLLC  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

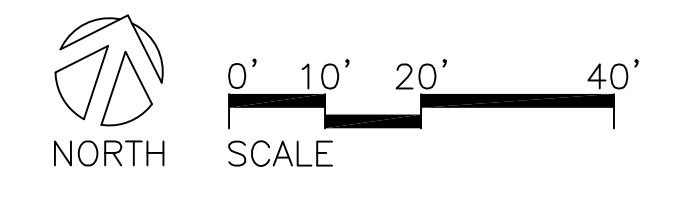
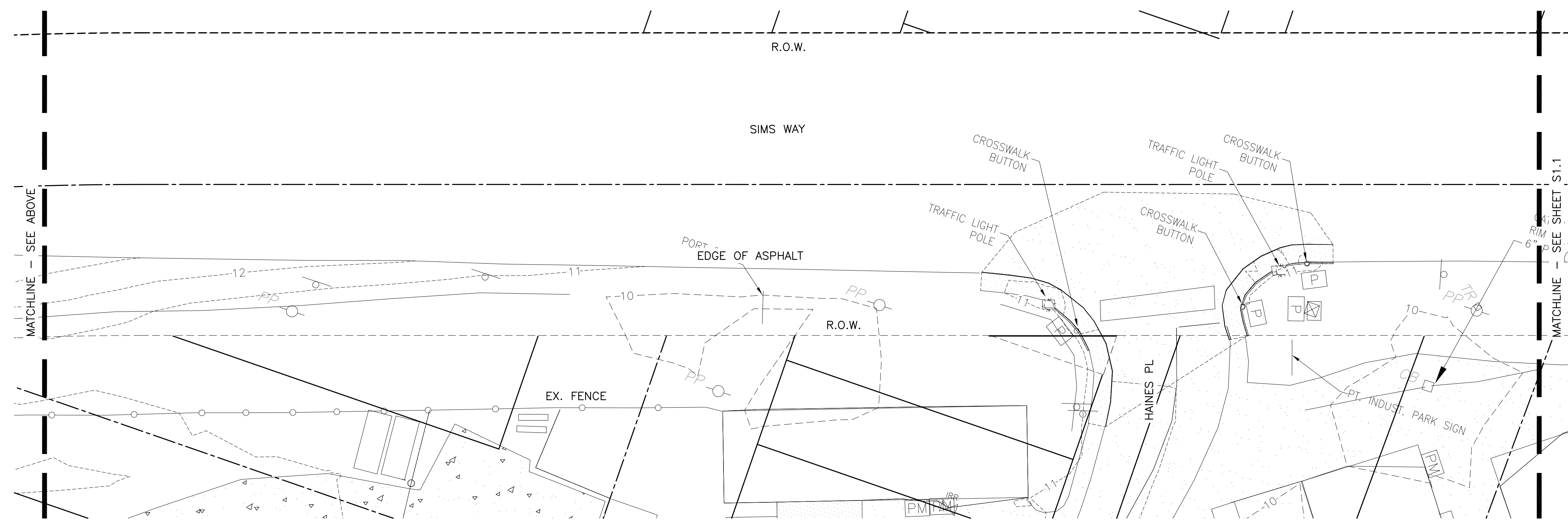
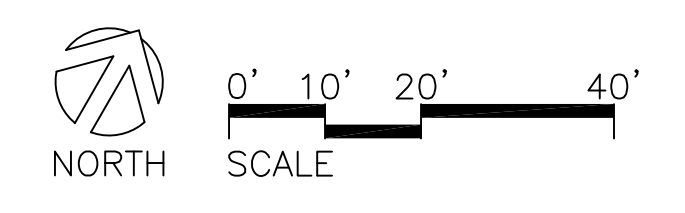
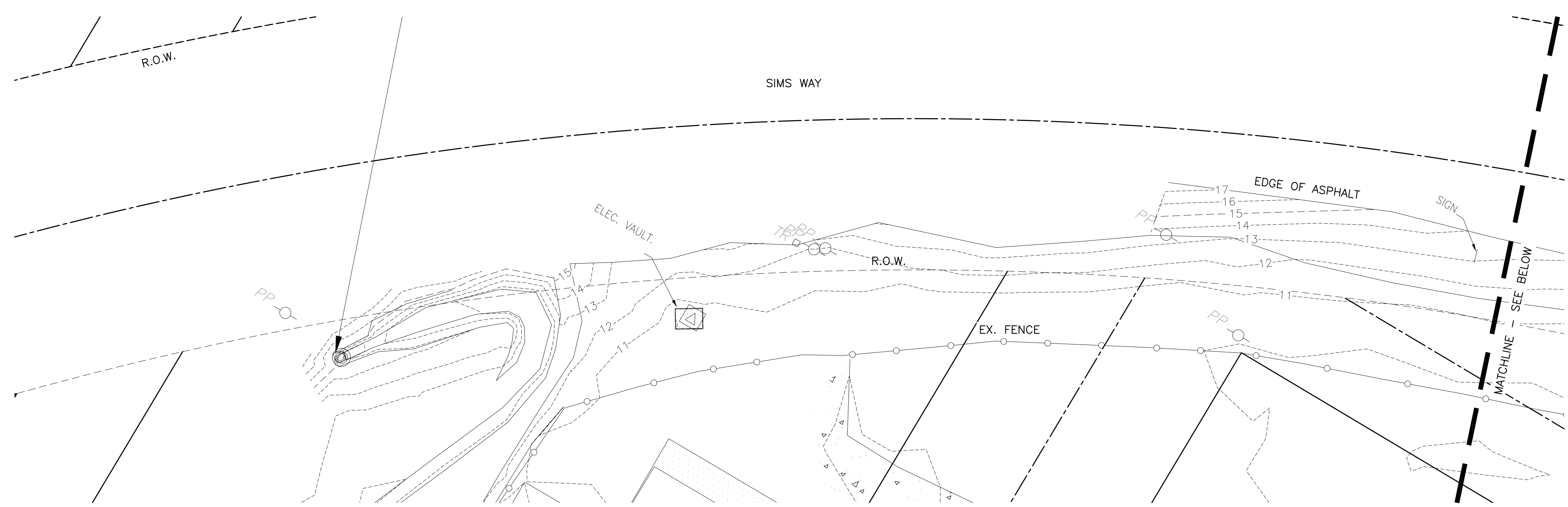
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE:	AS SHOWN
DATE:	SEPT 2024
DRAWN BY:	J.D.
CHECKED BY:	C.R.
JOB NO.:	

**SHEET INDEX**

SHEET  
**G1.1**

FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-SRVY.dwg PLOTTED: Thursday, September 26, 2024 - 8:58am USER: jameed

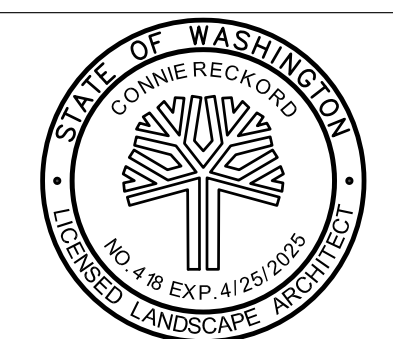


REVISIONS:	DATE



PORT OF PORT TOWNSEND  
2701 JEFFERSON STREET  
P.O. BOX 1180  
PORT TOWNSEND, WA 98368

**MacLeod Reckord** PLLC  
110 Prefontaine Place South, Suite 600  
Seattle, Washington 98104  
P 206-323-7919  
F 206-323-9242



**Call before you Dig.**  
1-800-424-5555  
UNDERGROUND SERVICE (USA)

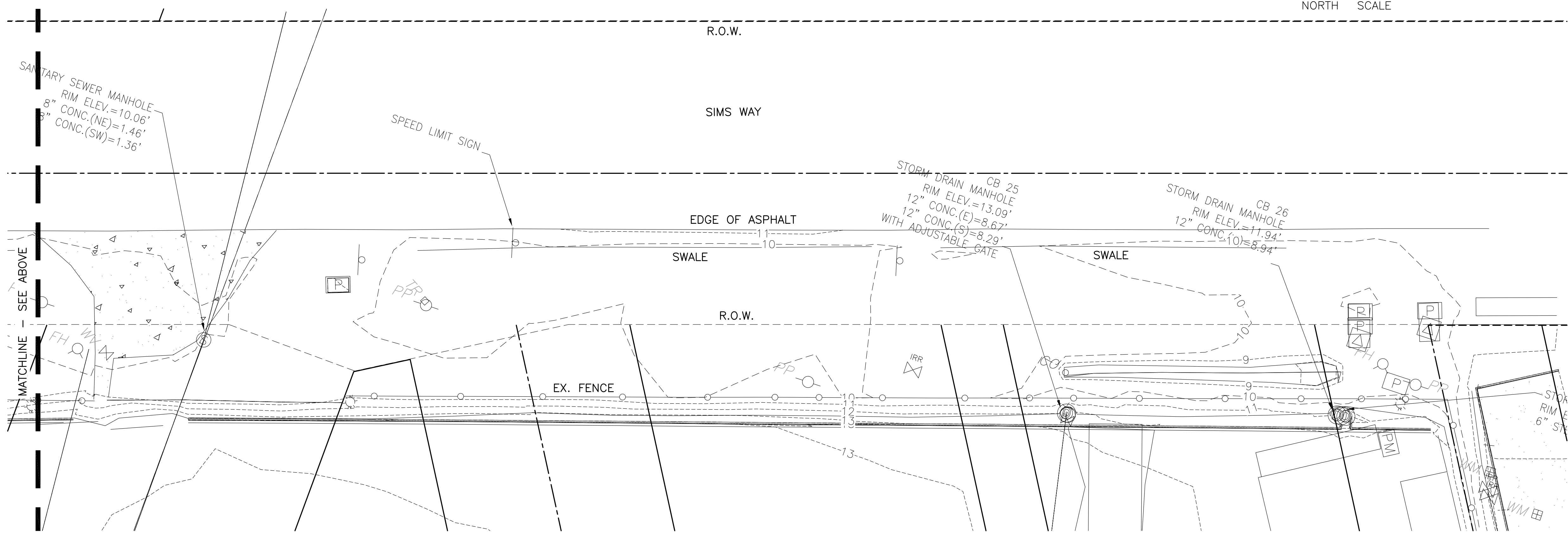
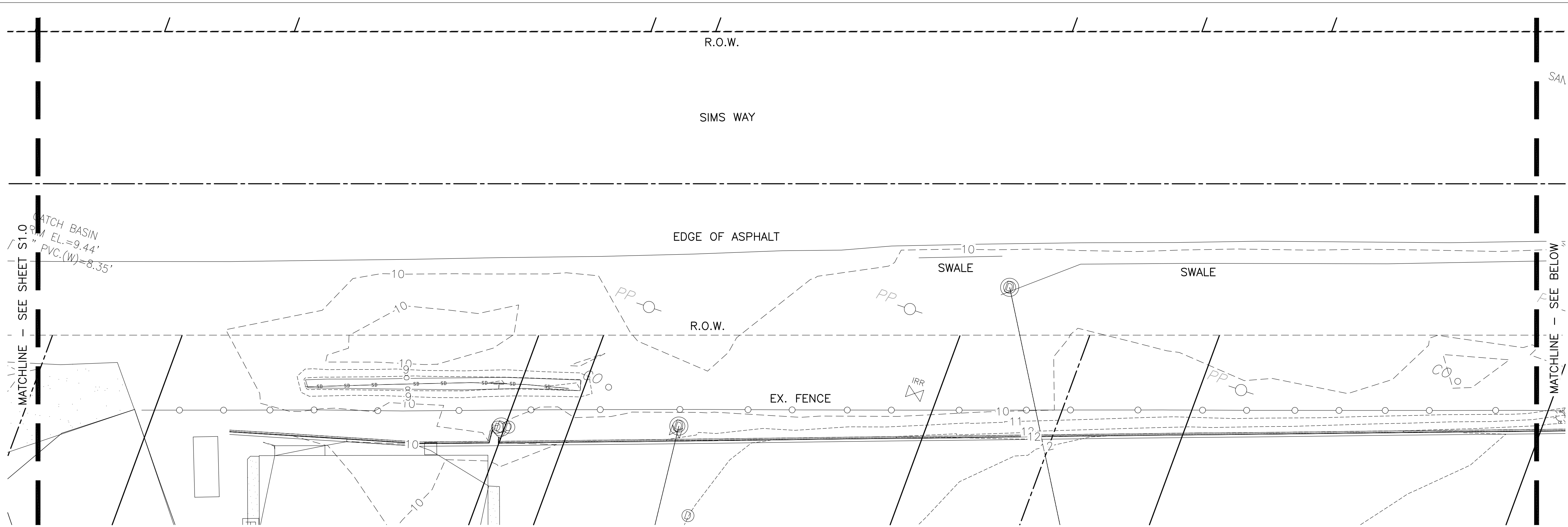
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE: AS SHOWN  
DATE: SEPT 2024  
DRAWN BY: J.D.  
CHECKED BY: C.R.  
JOB NO.:

**SURVEY**

SHEET  
**S1.0**





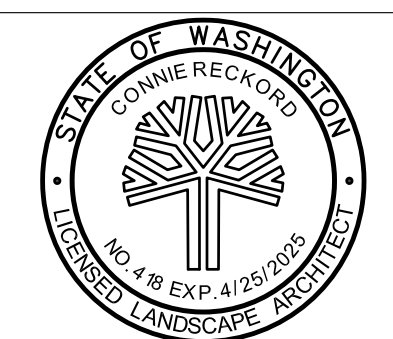
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-SRVY.dwg PLOTTED: Thursday, September 26, 2024 - 8:58am USER: jamesd

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



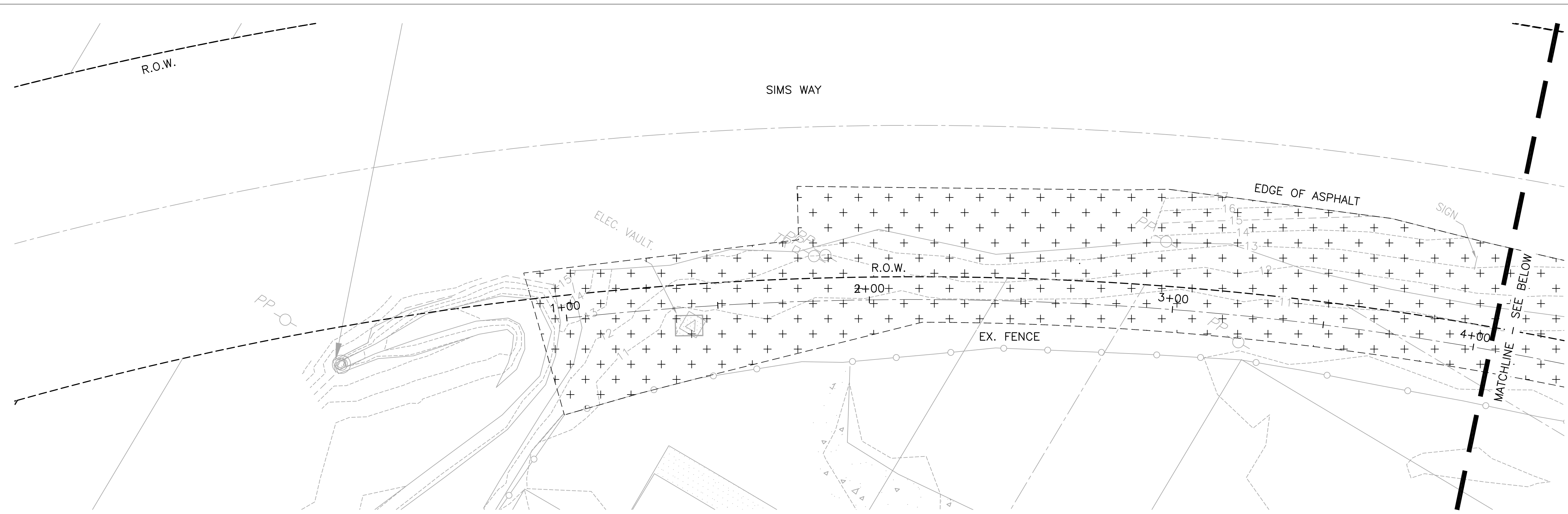
**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

SCALE:	AS SHOWN
DATE:	SEPT 2024
DRAWN BY:	J.D.
CHECKED BY:	C.R.
JOB NO.:	

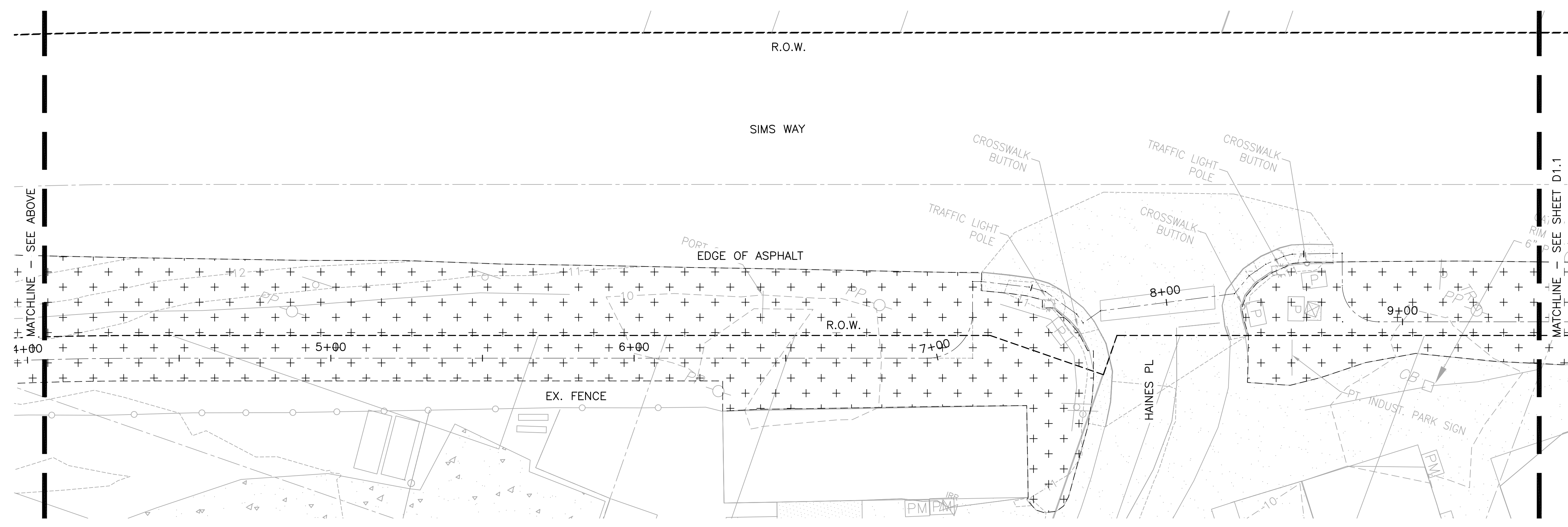
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

**SURVEY**

SHEET  
**S1.1**



- SITE PREPARATION NOTES:**
1. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SITE FROM UNAUTHORIZED PUBLIC ACCESS DURING CONSTRUCTION. INSTALL TEMPORARY CONSTRUCTION FENCING PRIOR TO COMMENCING WITH SITE PREPARATION WORK. PROVIDE TEMPORARY OPENINGS AS NECESSARY FOR CONSTRUCTION ACCESS TO SITE.
  2. CLEARLY FLAG LIMIT OF WORK (LOW) IN FIELD FOR APPROVAL PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LOW SHALL BE PERMITTED.
  3. THE CONSTRUCTION FENCE AND SILT FENCE SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
  4. PRESERVE AND PROTECT ALL EXISTING TREES AND ITEMS NOT DESIGNATED FOR REMOVAL. HAUL ALL MATERIALS NOT DESIGNATED TO REMAIN UNLESS OTHERWISE SPECIFIED.
  5. IF ENCOUNTERED, REMOVE ANY INACTIVE UNDERGROUND UTILITIES WHICH INTERFERE WITH NEW CONSTRUCTION. NOTIFY OWNER IF ACTIVE LINES INTERFERE WITH NEW CONSTRUCTION.
  6. PROTECT TREE ROOTS EXPOSED DURING TRENCHING PER THE SPECS.
  7. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND LEGAL DISPOSAL OF ALL ITEMS TO BE REMOVED AND ANY ASSOCIATED SUBSURFACE FOOTINGS.
  8. AREAS OF CONSTRUCTION STAGING AND STOCKPILING TO BE RESTORED TO EQUAL OR BETTER CONDITION.
  9. STREET FRONTAGE AND ADJACENT STREETS TO BE KEPT FREE OF SEDIMENT AT ALL TIMES. SWEEP STREET ON A DAILY BASIS OR AS DIRECTED BY THE ENGINEER.



- SITE PREPARATION LEGEND:**
- CLEAR AND GRUB PER SPECIFICATIONS
  - REMOVE GRAVEL SURFACING
  - REMOVE EXISTING CONCRETE SIDEWALK AND BASE COURSE
  - DECOMPACT SOIL TO 3'-0" DEPTH, SPREAD AND TILL COMPOST PER SPECIFICATIONS
  - LIMIT OF WORK LINE

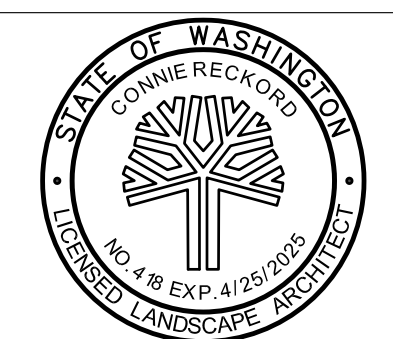
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-DEMO.dwg PLOTTED: Thursday, September 26, 2024 - 8:58am USER: jrmesd

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

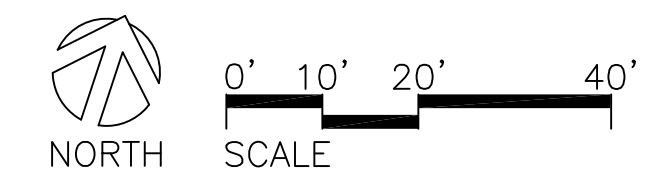
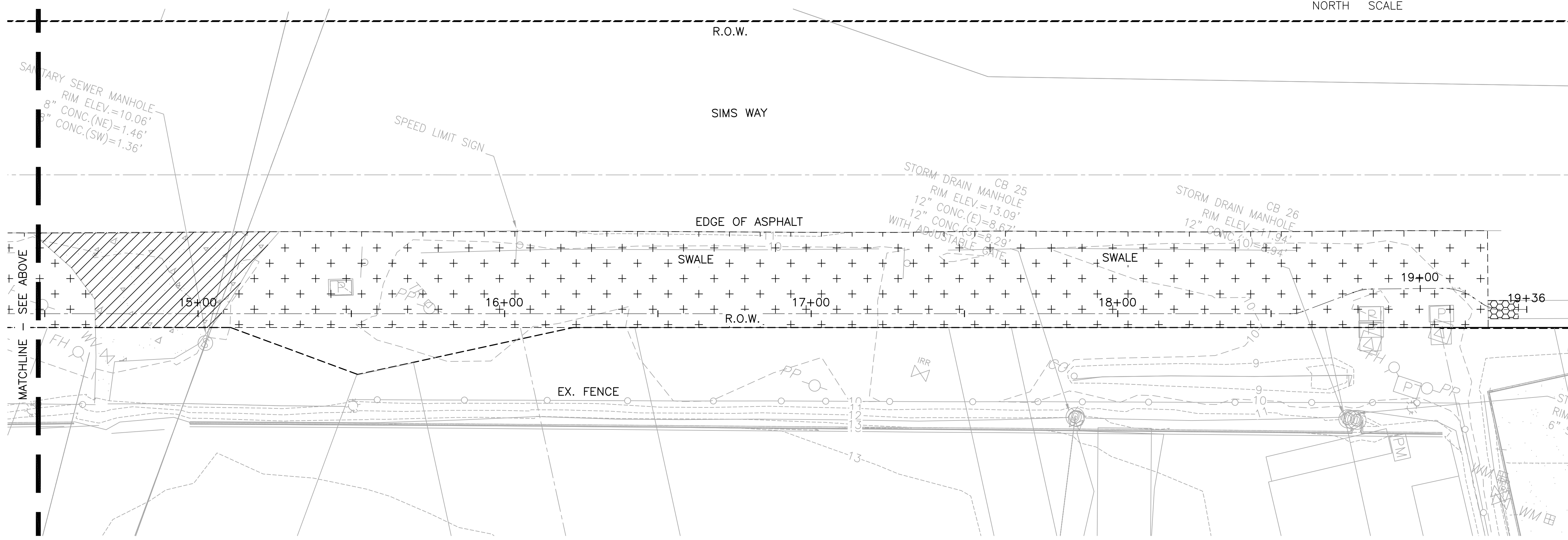
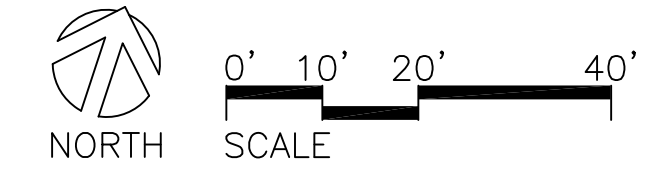
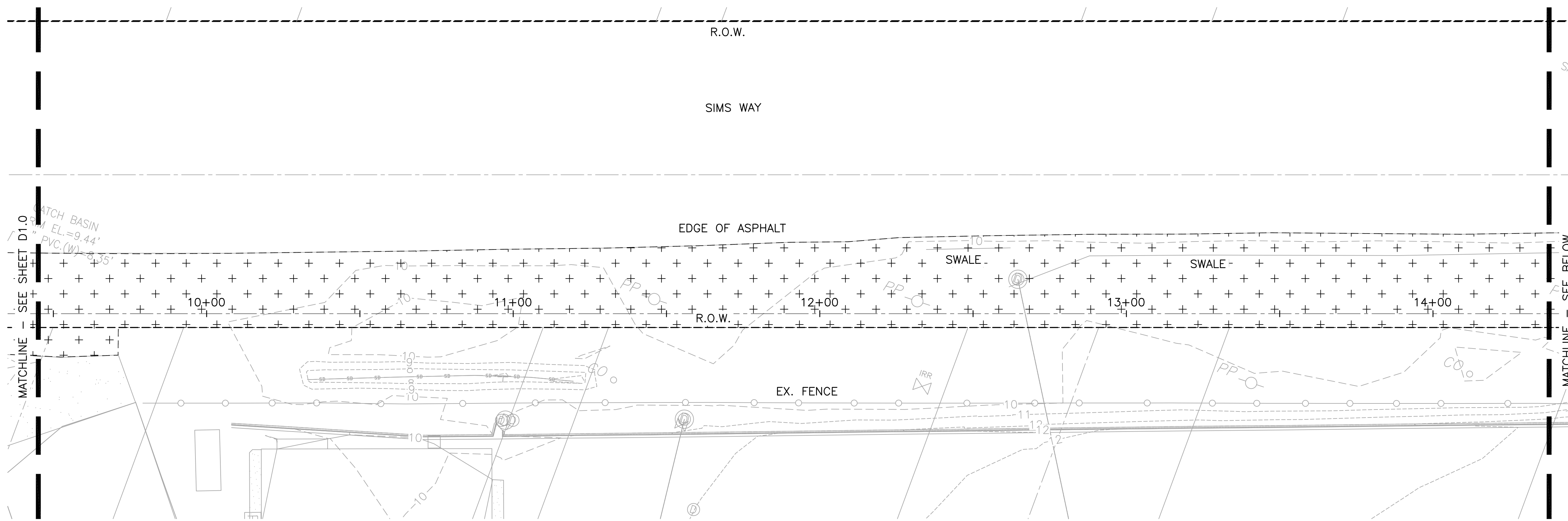
SCALE: AS SHOWN  
 DATE: SEPT 2024  
 DRAWN BY: J.D.  
 CHECKED BY: C.R.  
 JOB NO.:

**SITE PREPARATION**

SHEET  
**D1.0**

**SITE PREPARATION NOTES:**

- SEE SHEET D1.0 FOR SITE PREPARATION NOTES AND LEGEND.



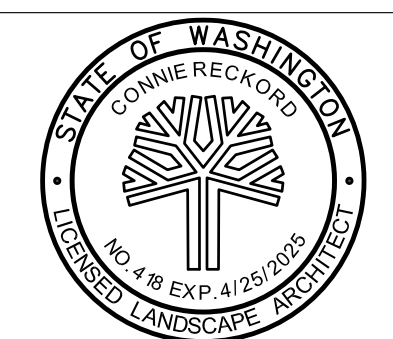
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-DEMO.dwg PLOTTED: Thursday, September 26, 2024 - 8:58am USER: jarned

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

SCALE:	AS SHOWN
DATE:	SEPT 2024
DRAWN BY:	J.D.
CHECKED BY:	C.R.
JOB NO.:	

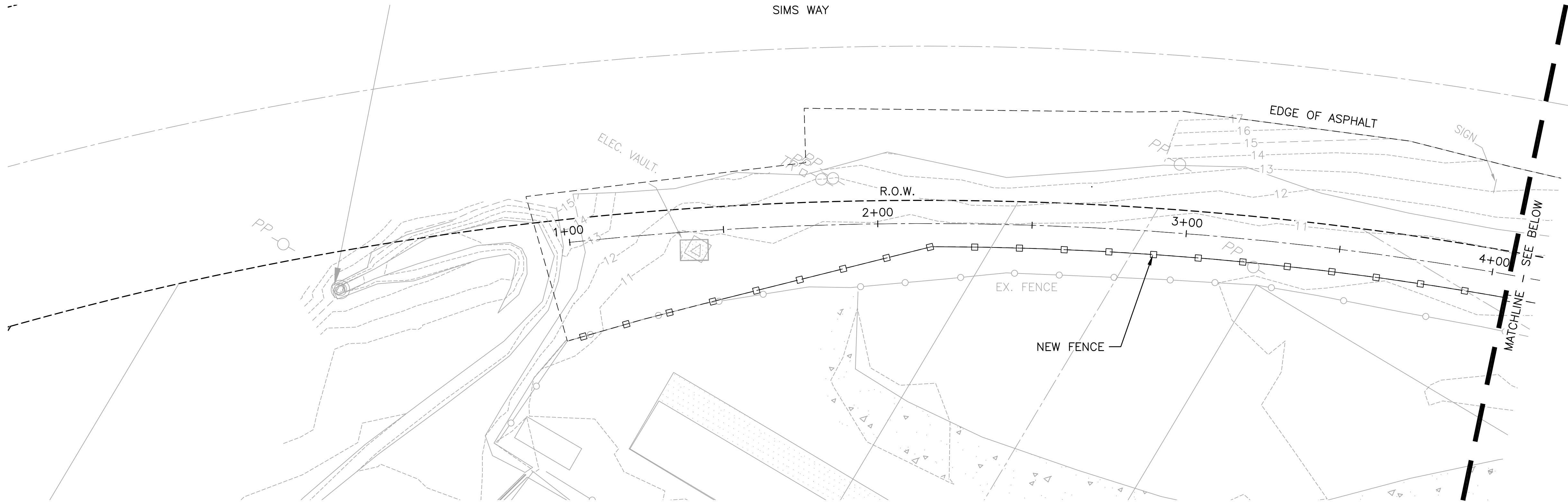
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

**SITE PREPARATION**

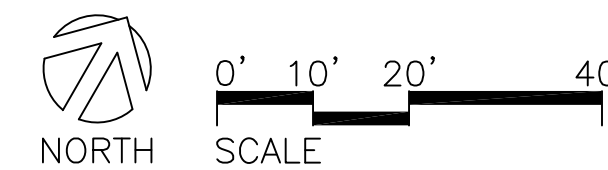
**D1.1**

SHEET

SIMS WAY



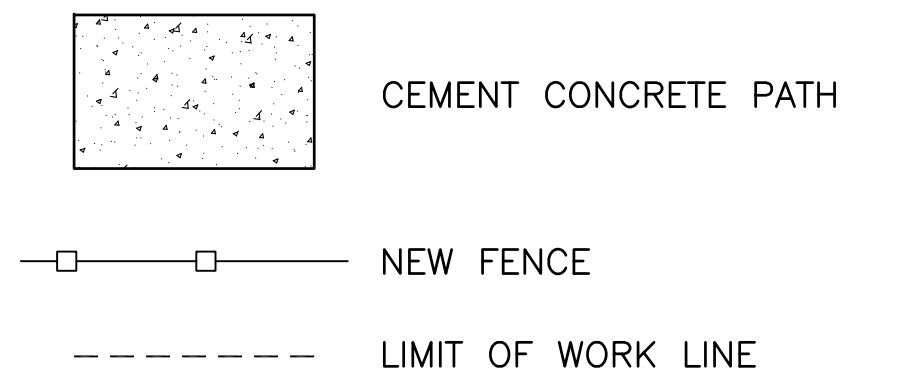
A-LINE PLAN



LAYOUT AND MATERIAL NOTES:

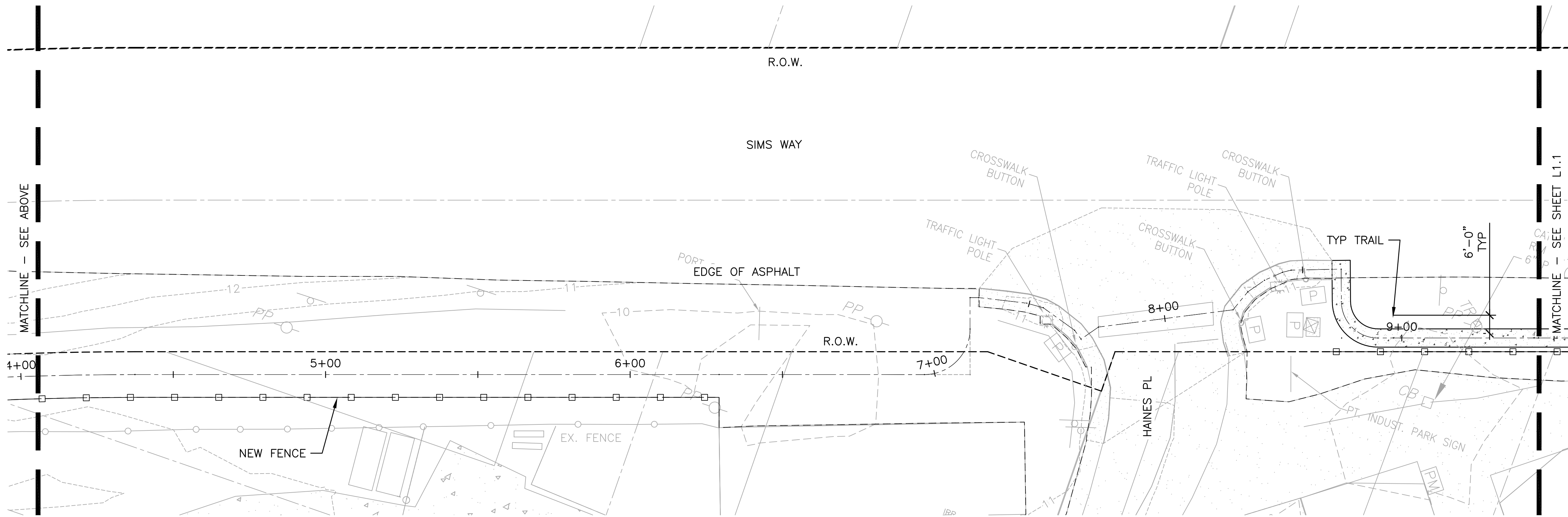
1. PROVIDE ALL CONSTRUCTION SURVEY AND STAKING.
2. STAKE OR PAINT LOCATION OF THE FOLLOWING ITEMS FOR APPROVAL PRIOR TO CONSTRUCTION
  - PATH CENTERLINES AND SUBGRADE
  - FENCE
  - LARGE TREES
  - LIMITS OF PLANT BED
3. STAKE AND COORDINATE WITH OTHER TRADES LOCATIONS OF ALL EXISTING AND PROPOSED UTILITIES PRIOR TO INSTALLATION.
4. ALL DIMENSIONS AND COORDINATE REFERENCES ARE TO FACE OF CURB, WALL OR BUILDING UNLESS OTHERWISE NOTED.
5. ALL ANGULAR DIMENSIONS ARE 90° UNLESS OTHERWISE SPECIFIED.
6. PRESERVE AND PROTECT EXISTING PAVEMENT, VEGETATION, FENCING, UTILITIES AND OTHER ITEMS TO REMAIN.
7. PROTECT ANY ROOTS OF THE TREES TO REMAIN EXPOSED DURING TRENCHING.
8. PROPOSED IMPROVEMENTS TO MEET AND MATCH EXISTING TO REMAIN WITH A SMOOTH AND FLUSH CONDITION.

LAYOUT AND MATERIAL LEGEND:

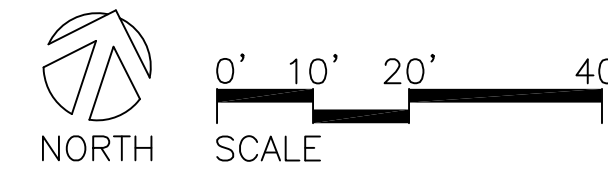


R.O.W.

SIMS WAY



A-LINE PLAN



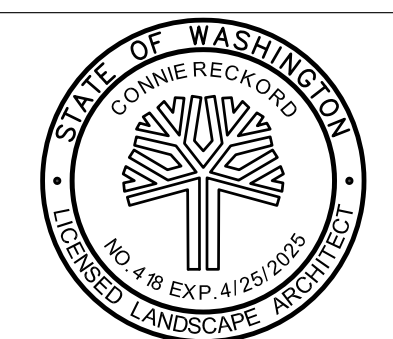
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-LAYO.dwg PLOTTED: Thursday, September 26, 2024 - 8:58am USER: jameed

REVISIONS:	DATE



PORT OF PORT TOWNSEND  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord** PLLC  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

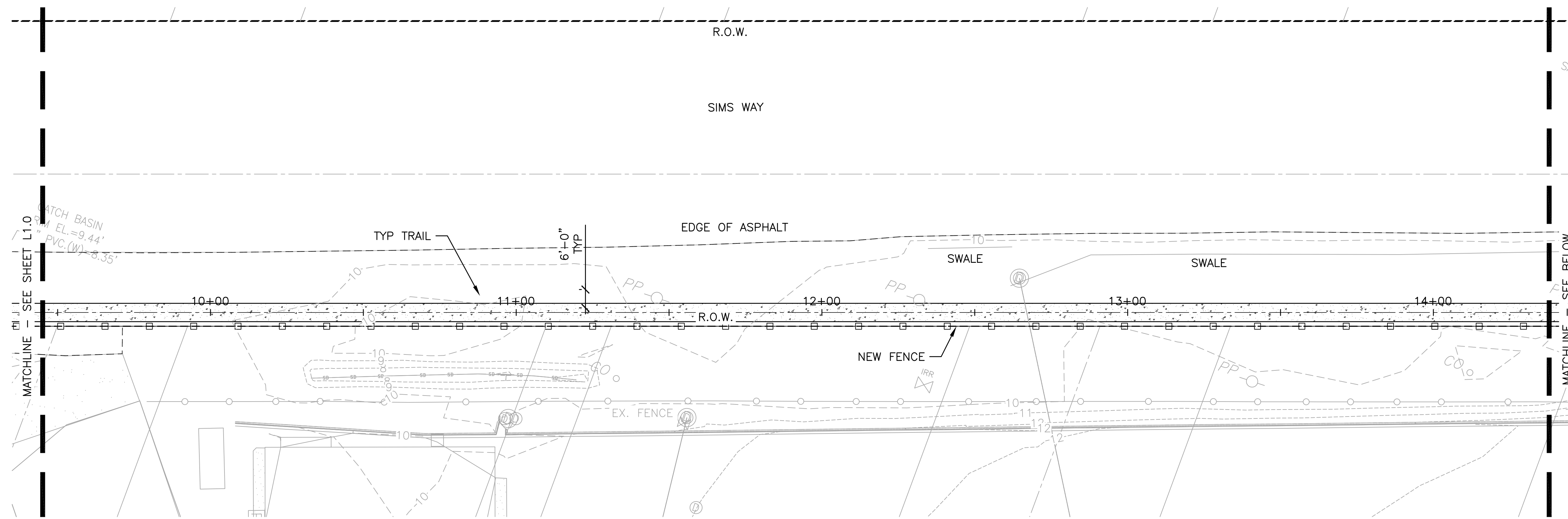
SCALE: AS SHOWN  
 DATE: SEPT 2024  
 DRAWN BY: J.D.  
 CHECKED BY: C.R.  
 JOB NO:

**LAYOUT PLAN**

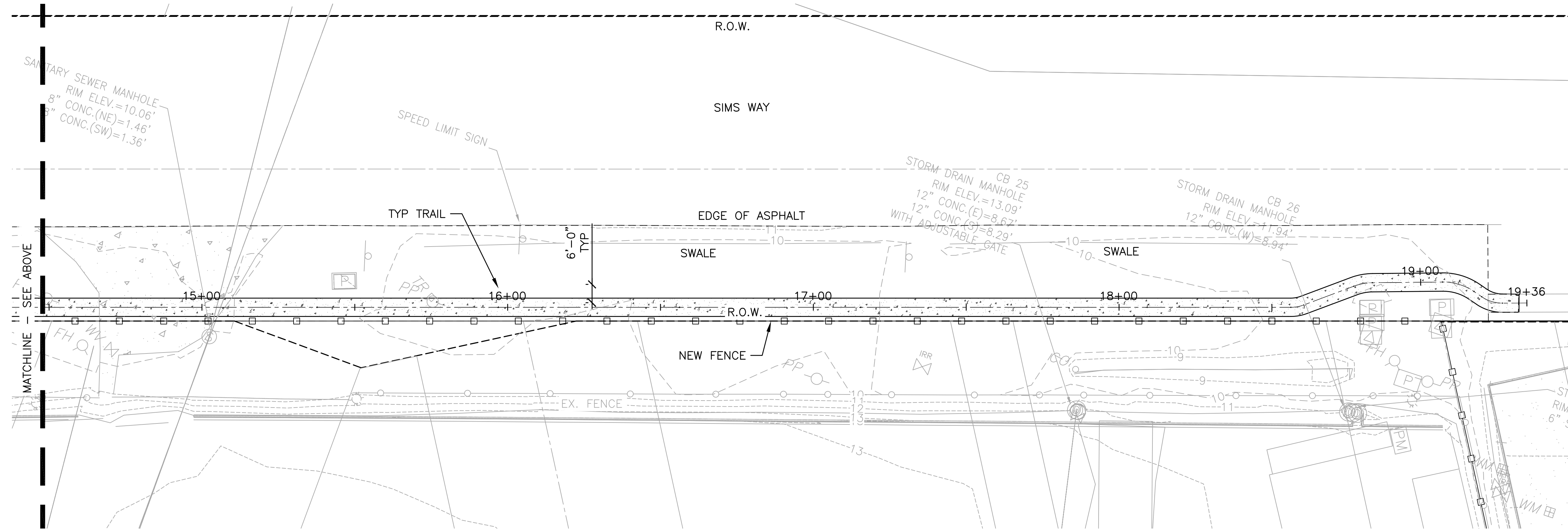
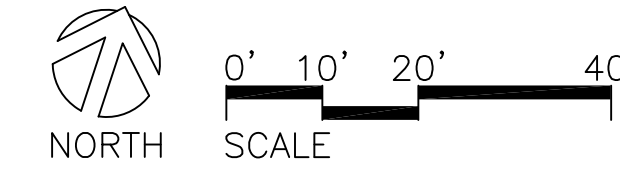
SHEET **L1.0**

**LAYOUT AND MATERIAL NOTES:**

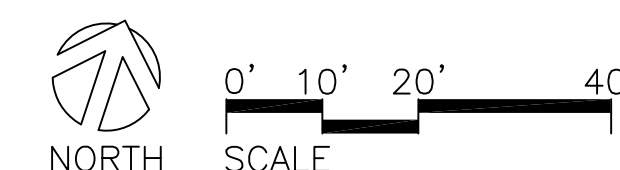
1. SEE SHEET L1.0 FOR LAYOUT AND MATERIALS NOTES AND LEGEND.



**A-LINE PLAN**



**A-LINE PLAN**



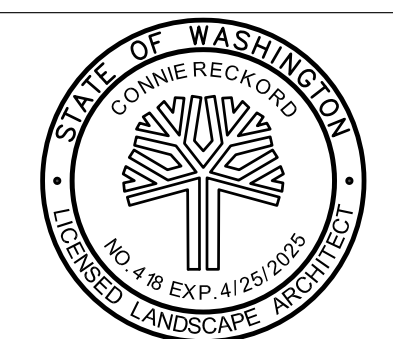
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-LAYO.dwg PLOTTED: Thursday, September 26, 2024 - 8:58am USER: jameed

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

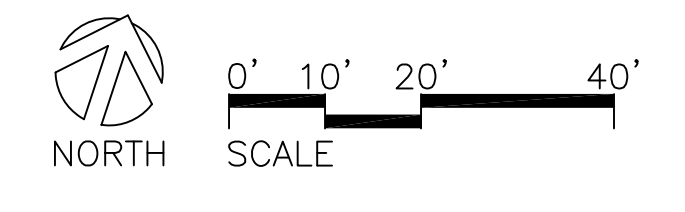
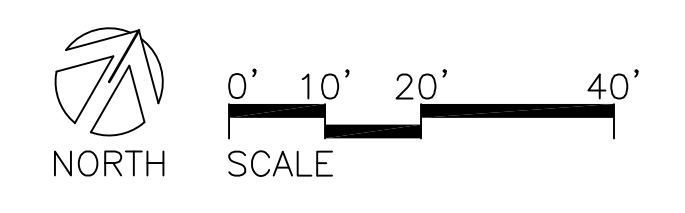
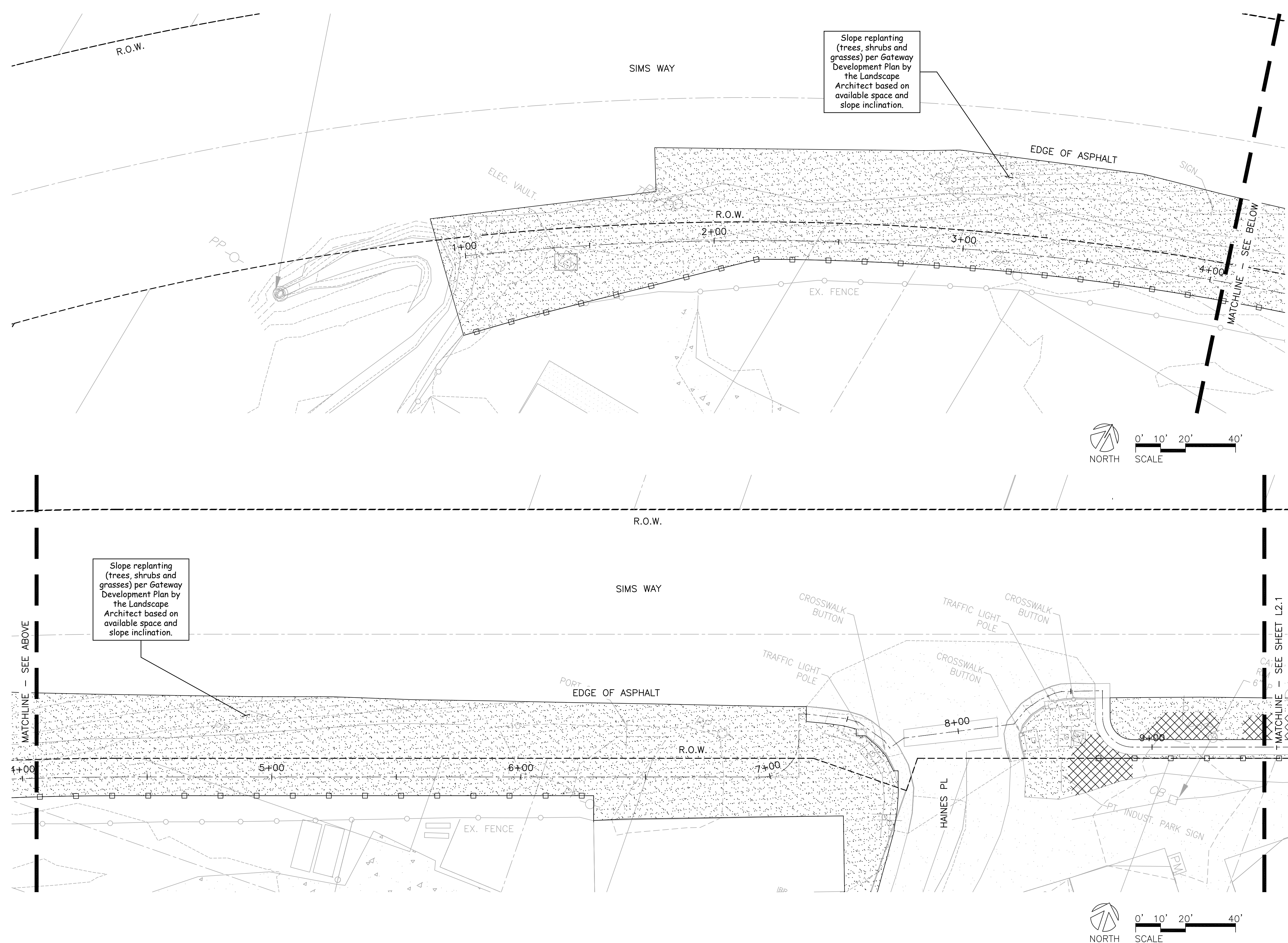
**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

<b>SIMS WAY GATEWAY AND BOATYARD EXPANSION</b>		SHEET <b>L1.1</b>
SCALE: AS SHOWN	DATE: SEPT 2024	
DRAWN BY: J.D.	CHECKED BY: C.R.	
JOB NO.:		

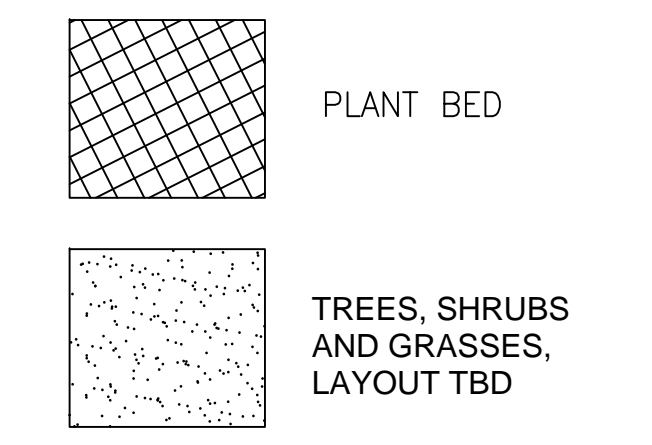
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-PLNT.dwg PLOTTED: Thursday, September 26, 2024 - 10:45am USER: jamaed



**PLANTING NOTES:**

1. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICTS.
2. STAKE LOCATIONS OF ALL NEW TREES FOR APPROVAL AND ORIENT AS DIRECTED. STAKE LOCATIONS OF ALL NEW PLANT BEDS FOR APPROVAL PRIOR TO PLANTING. SET SHRUBS IN PROPOSED LOCATIONS PRIOR TO PLANTING AND ADJUST LOCATIONS OF SHRUBS IN FIELD AS DIRECTED BY OWNER'S REPRESENTATIVE.
3. PRESERVE AND PROTECT ALL EXISTING VEGETATION TO REMAIN. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS AND/OR EXISTING UTILITIES TO REMAIN. DO NOT DRIVE MACHINERY OVER ROOTS WITHIN EXISTING TREE DRIPLINES, INCLUDING TREES LOCATED OUTSIDE THE LIMIT OF WORK.
4. ALL PLANT MATERIAL SHALL BE IN ACCORDANCE WITH MINIMUM SIZES AND TYPES IDENTIFIED IN THE PLANT SCHEDULE. PLANTING MATERIALS AND METHODS SHALL BE PER THE SPECIFICATIONS. PLANT QUANTITIES SHALL BE PER PLANT SCHEDULE AND AS SHOWN ON THE DRAWINGS. IF THERE IS A DISCREPANCY, THE GREATER QUANTITY SHALL BE INSTALLED.
5. PRUNE EXISTING AND NEW VEGETATION ONLY AS DIRECTED BY OWNERS REPRESENTATIVE.
6. ALL PLANT BEDS AND SEEDED LAWN AREAS SHALL BE WATERED WITH AN AUTOMATIC IRRIGATION SYSTEM. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL NEW PLANTS IN A HEALTHY CONDITION THROUGH FINAL ACCEPTANCE OF THE PROJECT. IRRIGATION DESIGN TO BE DEVELOPED AS A PART OF THE 90% DOCUMENTS.
7. SEE SPECIFICATIONS AND PLANTING DETAILS FOR PREPARATION OF PLANTED AREAS, INCLUDING SUBGRADE PREPARATION, IMPORTED MATERIALS AND FINISH GRADING.
8. ALL DISTURBED AREAS NOT OTHERWISE DESIGNATED FOR IMPROVEMENTS SHALL BE RESTORED TO PREVIOUS OR BETTER CONDITION.
9. SEE SHEET L2.2 FOR PLANT SCHEDULE.
10. SEE SHEET L2.3 FOR PLANTING LAYOUT.

**PLANTING LEGEND:**

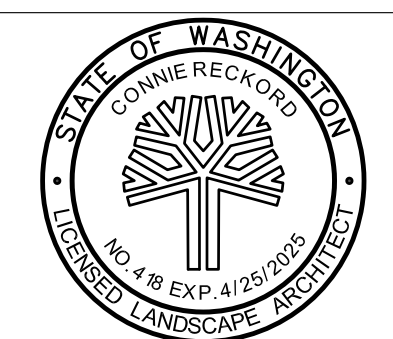


REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

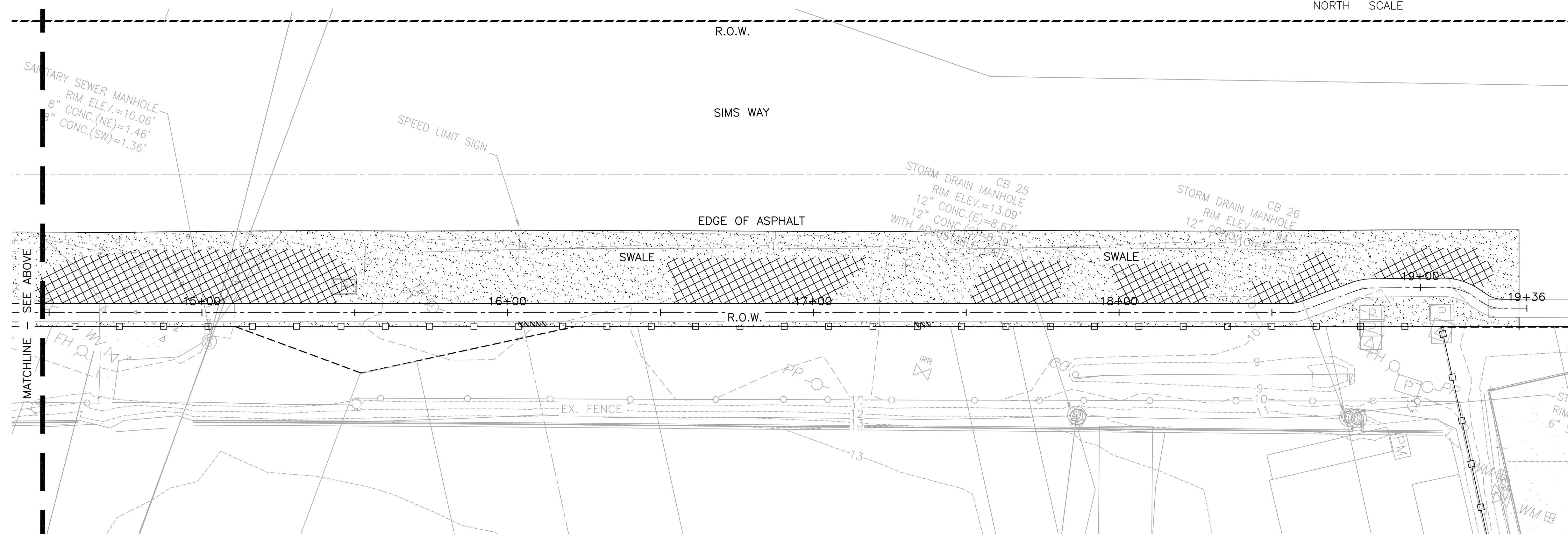
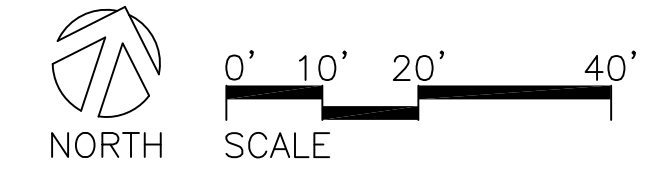
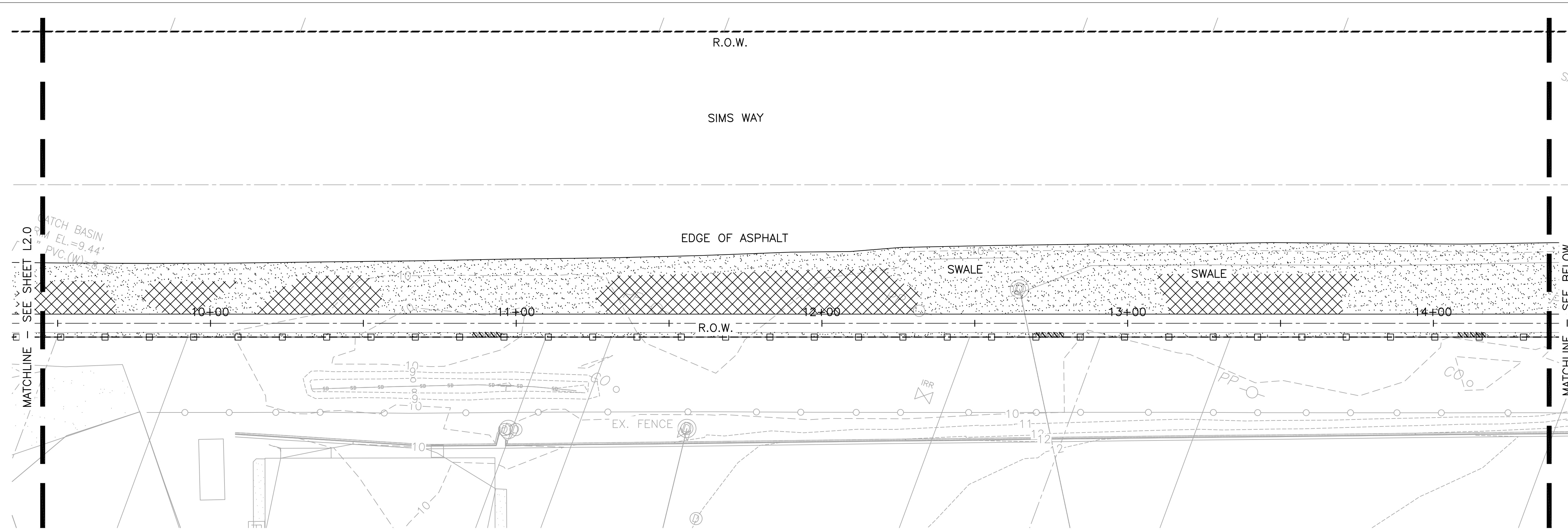
SCALE: AS SHOWN  
 DATE: SEPT 2024  
 DRAWN BY: J.D.  
 CHECKED BY: C.R.  
 JOB NO.:

**PLANTING PLAN**

SHEET  
**L2.0**

**PLANTING NOTES:**

1. SEE SHEET L2.0 FOR PLANTING NOTES.



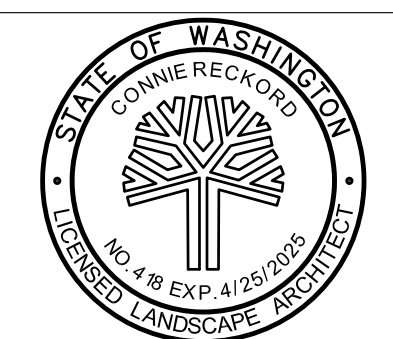
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-PLNT.dwg PLOTTED: Thursday, September 26, 2024 - 10:49am USER: jpmad

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

SCALE:	AS SHOWN
DATE:	SEPT 2024
DRAWN BY:	J.D.
CHECKED BY:	C.R.
JOB NO.:	

**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

**PLANTING PLAN**

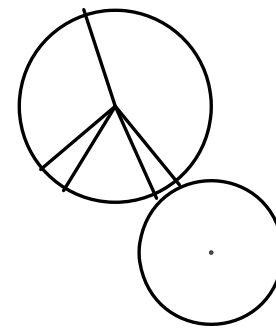
SHEET  
**L2.1**

**PLANTING SCHEDULE:**

SYMBOL	SCIENTIFIC / COMMON NAME	QUANTITY	SIZE	SPACING / NOTES
--------	--------------------------	----------	------	-----------------

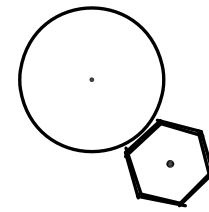
LARGE/MEDIUM TREES

- Liriodendron tulipifera 'Fastigiatum' / Columnar Tulip Tree
- Stewartia monodelpha / Orange Bark Stewartia
- Tilia americana / American Linden
- Tilia cordata / Little Leaf Linden
- Tilia cordata 'Greenspire' / Greenspire Linden
- Tilia tomentosa 'Sterling' / Sterling Silver Linden
- Ulmus x 'Frontier' / Frontier Elm



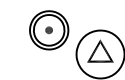
MEDIUM/SMALL TREES

- Arbutus unedo / Strawberry Tree
- Cornus kousa 'Chinensis' / Kousa Dogwood
- Lagerstroemia spp / Crape Myrtle
- Magnolia grandiflora 'Victoria' / Victoria Evergreen Magnolia
- Magnolia kobus / Kobus Magnolia
- Malus 'Adirondack', 'Golden Raindrops' / Adirondack Crabapple
- Morella californica / Pacific Wax Myrtle
- Rhododendron macrophyllum / Western Rhododendron



LARGE/MEDIUM SHRUBS

- Arctostaphylos columbiana / Hairy Manzanita
- Arctostaphylos uva-ursi / Kinnickinnick
- Gautheria shallon / Salal
- Lonicera involucrata / Black Twinberry
- Mahonia nervosa / Dull Oregon Grape



MEDIUM/SMALL SHRUBS

- Holodiscus discolor / Oceanspray
- Mahonia aquifolium / Tall Oregon Grape
- Philadelphus lewisii / Mock Orange
- Physocarpus capitatus / Pacific Ninebark
- Rhododendron sp. / Rhododendron
- Ribes sanguineum / Red Flowering Currant
- Rosa nutkana / Nootka Rose
- Rubus parvifolius / Thimbleberry
- Symphoricarpos albus / Snowberry
- Vaccinium ovatum / Evergreen Huckleberry



**PLANTING SCHEDULE CONTINUED:**

SYMBOL	SCIENTIFIC / COMMON NAME	QUANTITY	SIZE	SPACING / NOTES
--------	--------------------------	----------	------	-----------------

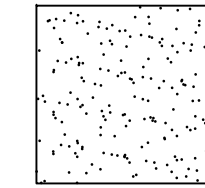
CLIMBING/VINES

- Clematis 'Apple Blossom' / Evergreen Clematis
- Lonicera periclymenum 'Graham Thomas' / Graham Thomas Honeysuckle 23 EA
- Trachelospermum jasmenoides / Star Jasmine

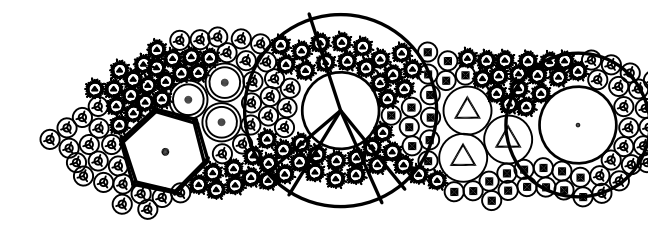


GRASSES

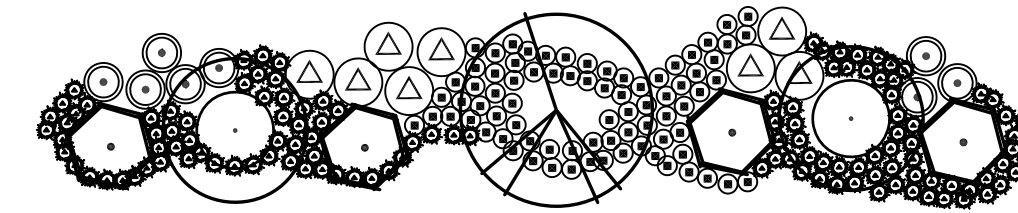
46,229 SF



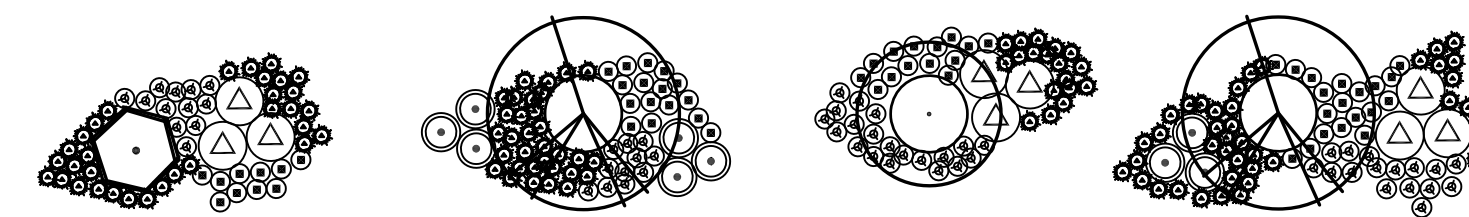
**CONCEPTUAL PLANTING LAYOUTS:**



LAYOUT A



LAYOUT B



LAYOUT C

FILE NAME: Z:\Projects\ Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-PLNT.dwg PLOTTED: Thursday, September 26, 2024 - 10:50am USER: jamed

REVISIONS:	DATE



PORT OF PORT TOWNSEND  
2701 JEFFERSON STREET  
P.O. BOX 1180  
PORT TOWNSEND, WA 98368

**MacLeod Reckord** PLLC  
110 Prefontaine Place South, Suite 600  
Seattle, Washington 98104  
P 206-323-7919  
F 206-323-9242



**Call before you Dig.**  
1-800-424-5555  
UNDERGROUND SERVICE (USA)

**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE:	AS SHOWN
DATE:	SEPT 2024
DRAWN BY:	J.D.
CHECKED BY:	C.R.
JOB NO.:	

**PLANTING SCHEDULE**

SHEET

**L2.2**



**NOTE:**

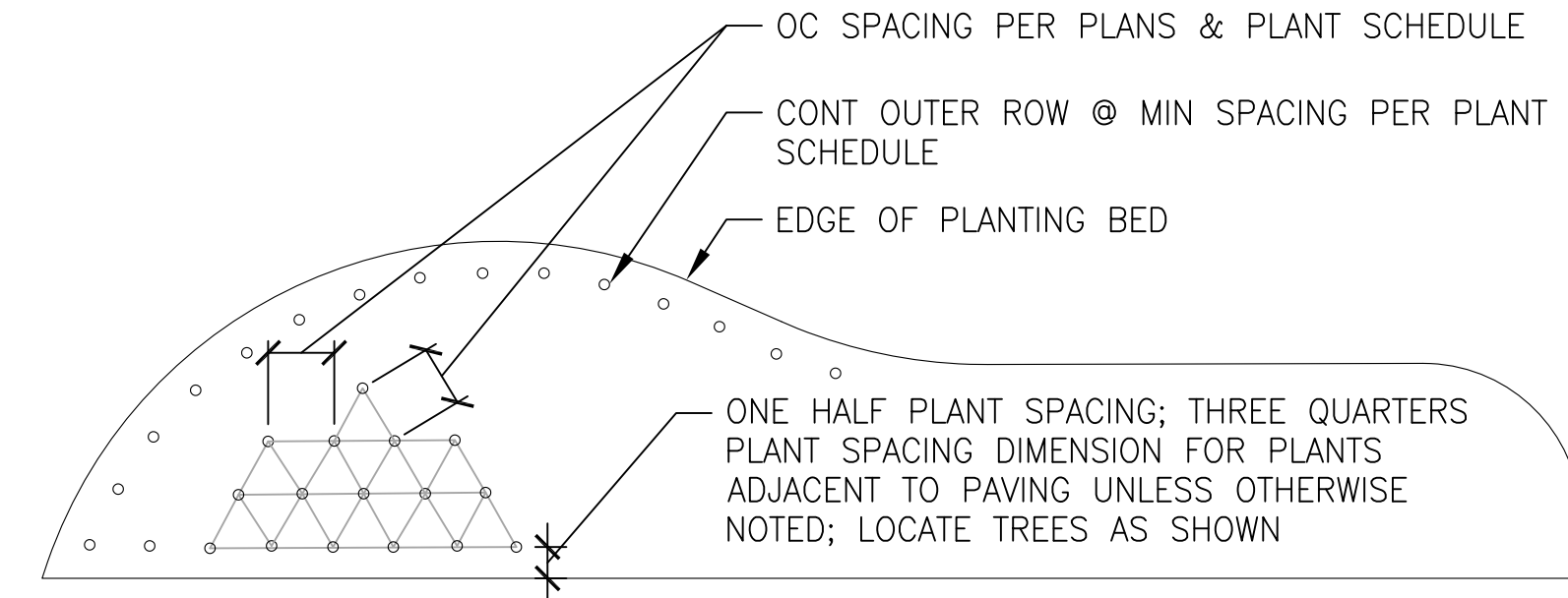
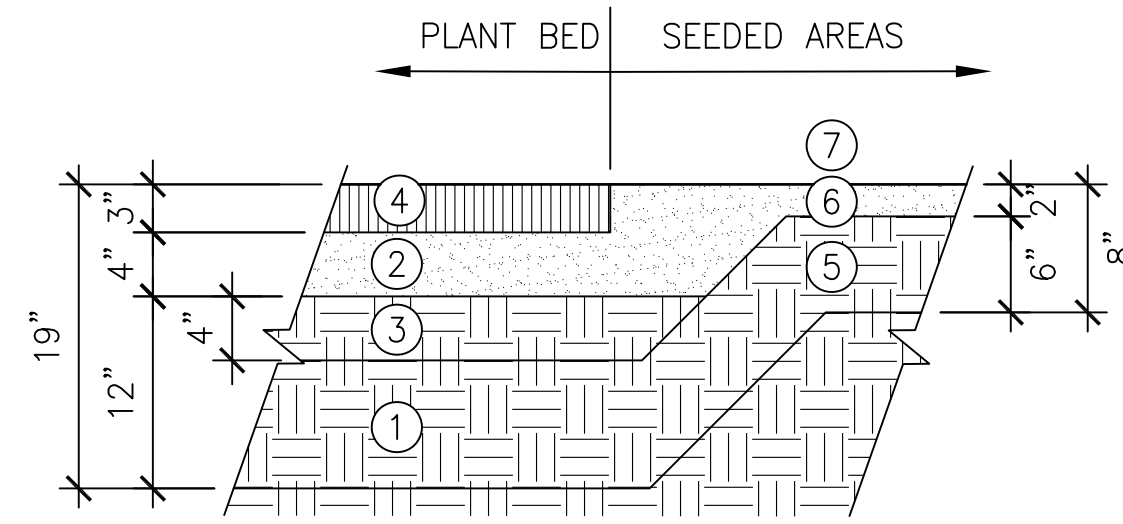
1. SEE SPECS FOR PRODUCTS AND EXECUTION INFORMATION.
2. SCARIFICATION RESTRICTED TO 2" DEPTH INSIDE ICRZ PERIMETERS.

**SEQUENCE OF WORK (PLANT BED)**

- ① SCARIFY SUBGRADE MIN. 12" DEPTH
- ② PLACE 4" DEPTH TOPSOIL
- ③ TILL TOPSOIL INTO TOP 4" OF SCARIFIED SUBGRADE
- ④ PLACE 3" DEPTH MULCH. FINISH GRADE OF MULCH TO BE FLUSH WITH FINISH GRADE OF TOPSOIL IN SEEDED AREAS

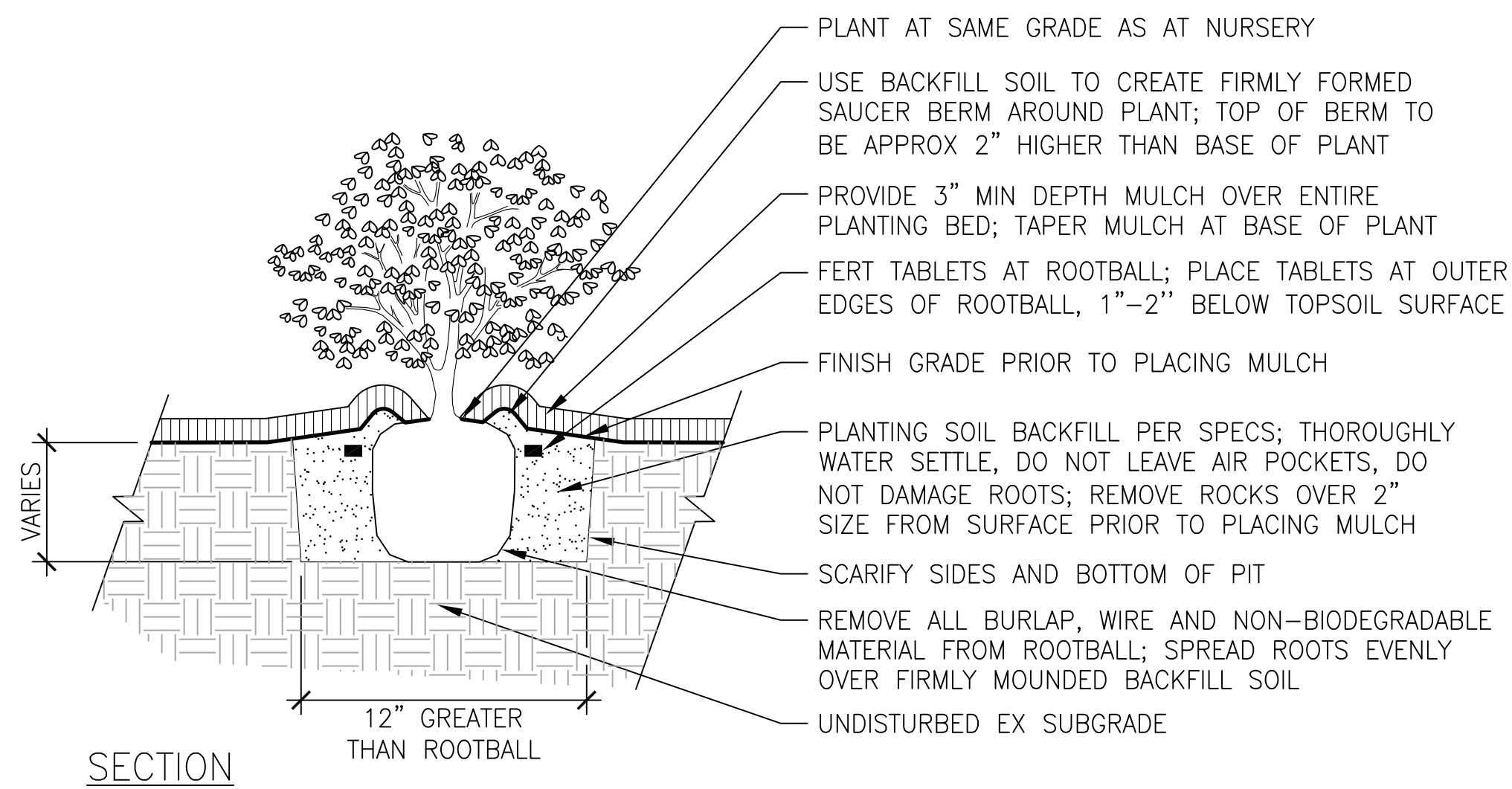
**SEQUENCE OF WORK (LAWN SEED AREAS)**

- ⑤ SCARIFY SUBGRADE 6" DEPTH. WHERE SEEDED AREAS ARE INSIDE ICRZ, SCARIFY SUBGRADE TO 2" DEPTH
- ⑥ PLACE 2" DEPTH TOPSOIL
- ⑦ FINISH GRADE TOPSOIL PRIOR TO SEEDING

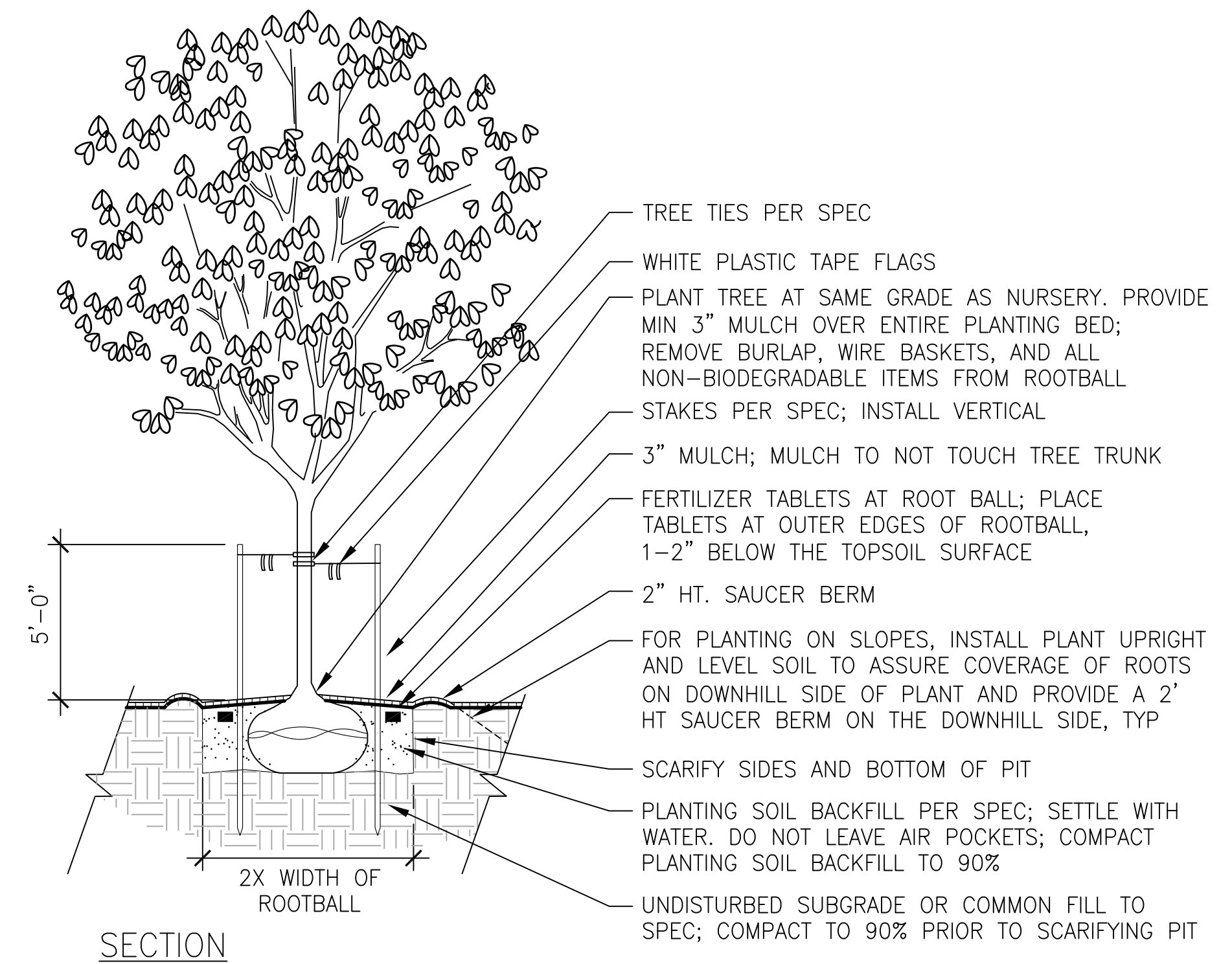


**1 SOIL PREP**  
SCALE: 1"=1'-0"

**2 GROUND COVER SPACING**  
SCALE: 1/2"=1'-0"



**3 SHRUB & GROUND COVER PLANTING**  
SCALE: 1"=1'-0"



**4 TREE PLANTING**  
SCALE: 1/4"=1'-0"

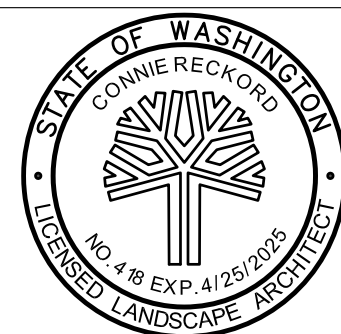
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-PLNT.dwg PLOTTED: Thursday, September 26, 2024 - 8:59am USER: jameed

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
2701 JEFFERSON STREET  
P.O. BOX 1180  
PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
110 Prefontaine Place South, Suite 600  
Seattle, Washington 98104  
P 206-323-7919  
F 206-323-9242



**Call before you Dig.**  
1-800-424-5555  
UNDERGROUND SERVICE (USA)

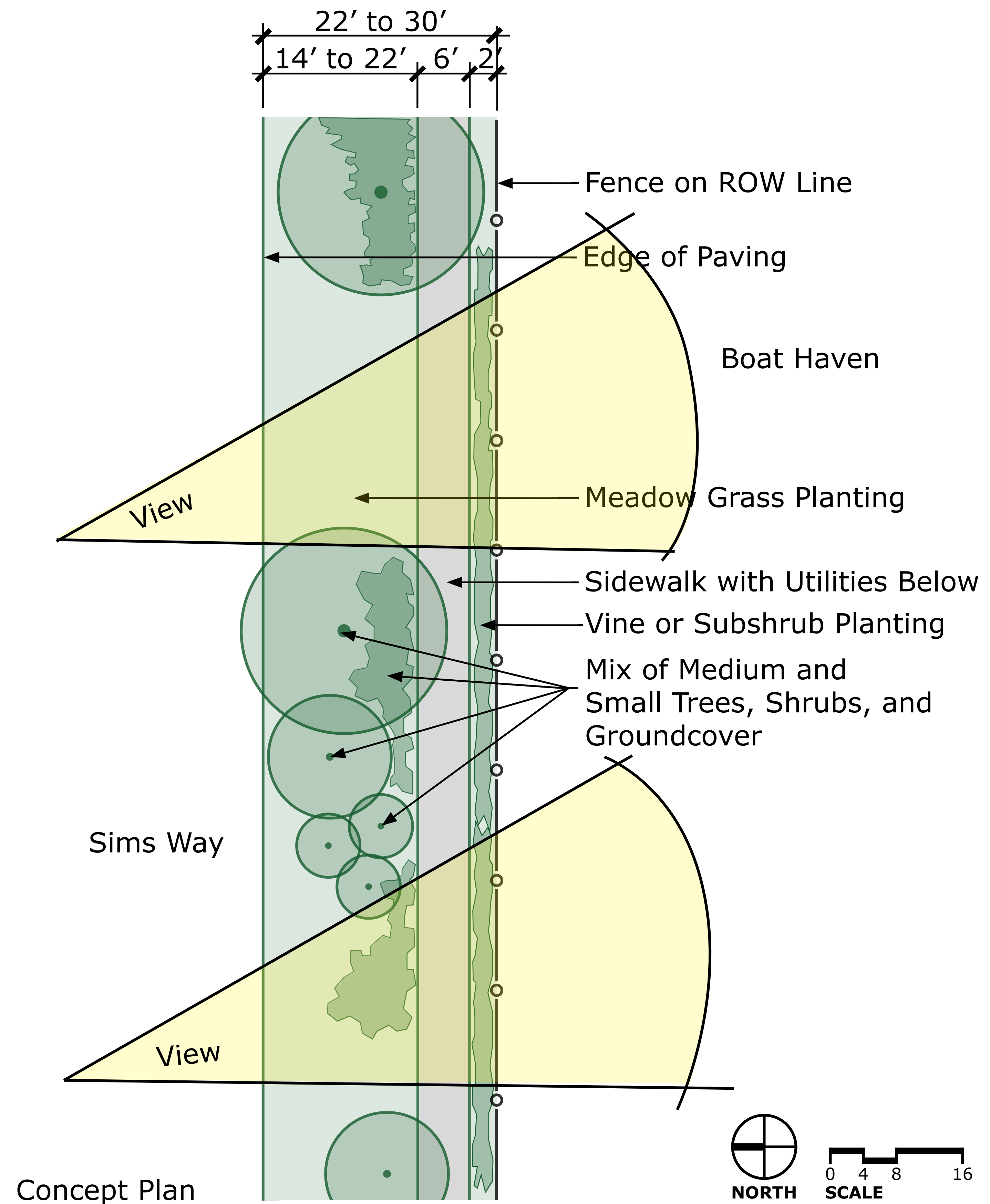
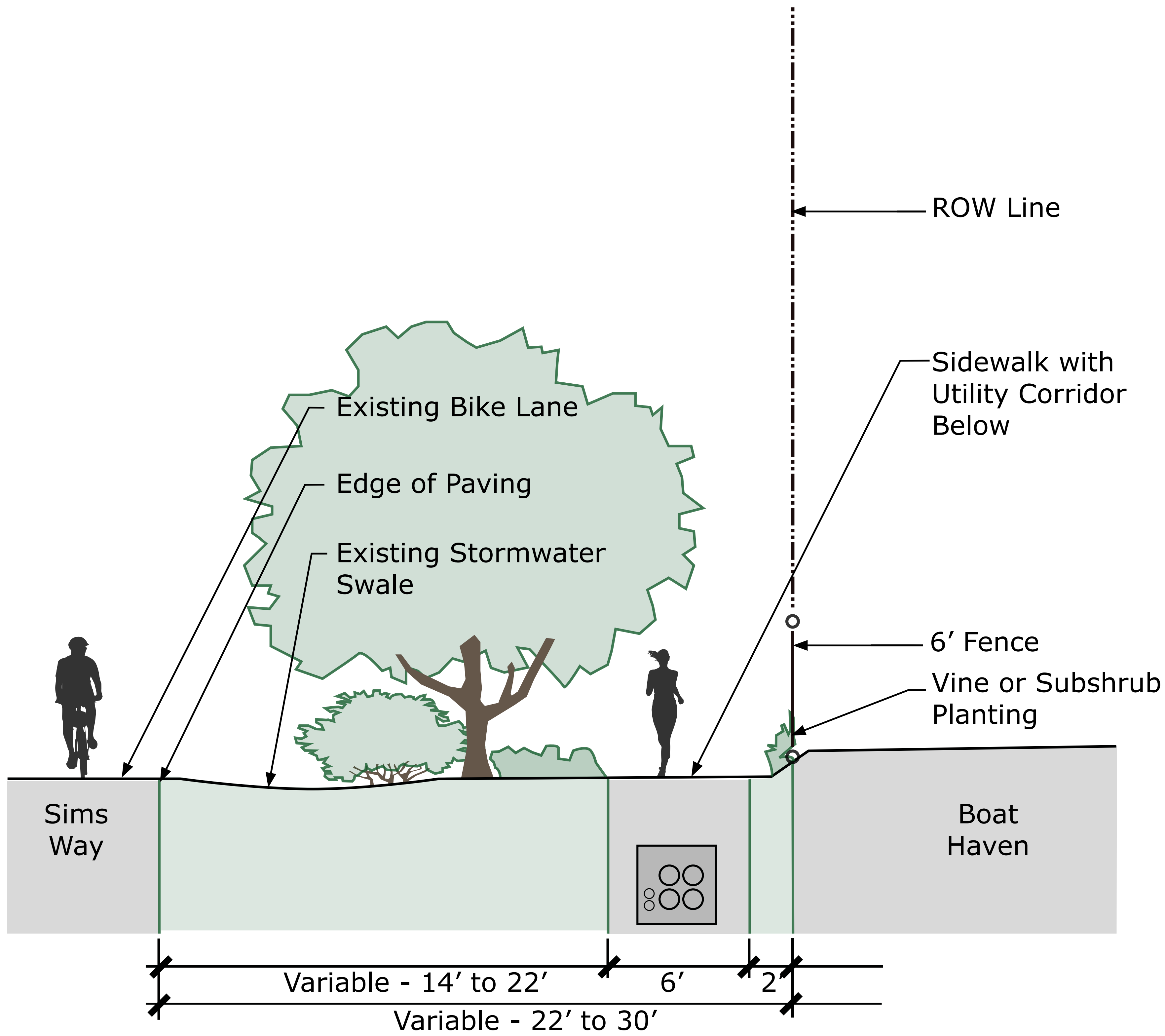
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE: AS SHOWN  
DATE: SEPT 2024  
DRAWN BY: J.D.  
CHECKED BY: C.R.  
JOB NO.:

**PLANTING DETAILS**

SHEET

**L2.3**

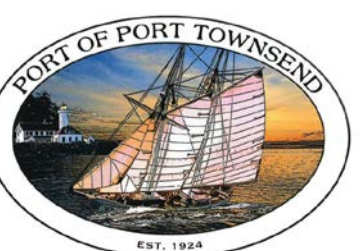


# Parkway Planting Concept - South Side of Sims Way

## Graphics Supporting SEPA Checklist

Sims Way Gateway and Boatyard Expansion Project

January 2025



# Trees



© David Anstiss

*Arbutus unedo* / Strawberry Tree



© Liz West

*Cornus kousa* 'Chinensis' / Kousa Dogwood



© Ong Jyh Seng

*Lagerstroemia speciosa* / Crape Myrtle



© Agnieszka Kwiecien

*Liriodendron tulipifera* 'Fastigiatum' / Columnar Tulip Tree



© Kiran891

*Magnolia grandiflora* 'Victoria' / Victoria Evergreen Magnolia



© Bruce Martin

*Magnolia kobus* / Kobus Magnolia

## Plant Materials Images

Photographs Supporting SEPA Checklist

Sims Way Gateway and Boatyard Expansion Project



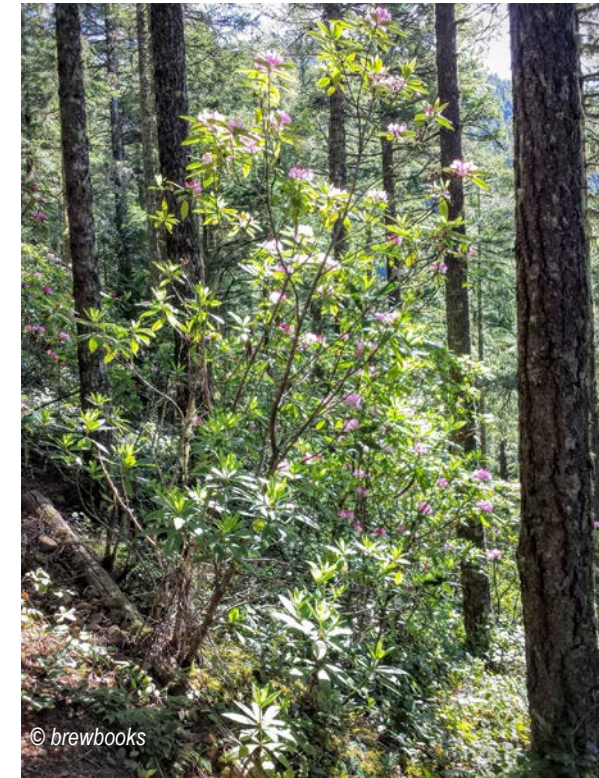
# Trees



Malus 'Adirondack', 'Golden Raindrops' / Adirondack Crabapple



Morella californica / Pacific Wax Myrtle



Rhododendron macrophyllum / Western Rhododendron



Stewartia monadelphica / Orange Bark Stewartia



Tilia cordata / Little Leaf Linden



Ulmus 'Frontier' / Frontier Elm

## Plant Materials Images

Photographs Supporting SEPA Checklist

Sims Way Gateway and Boatyard Expansion Project

# Shrubs



Arctostaphylos columbiana / Hairy Manzanita



Arctostaphylos uva-ursi / Kinnikinnick



Gaultheria shallon / Salal



Holodiscus discolor / Oceanspray



Lonicera involucrata / Black Twinberry



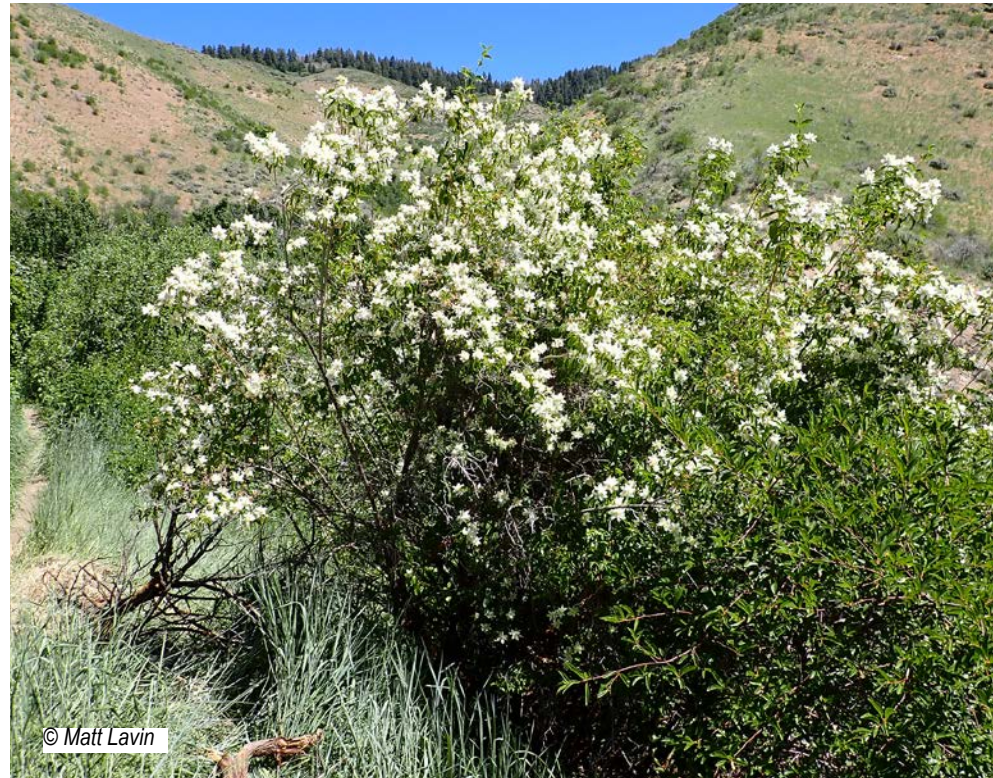
Mahonia aquifolium / Tall Oregon Grape

## Plant Materials Images

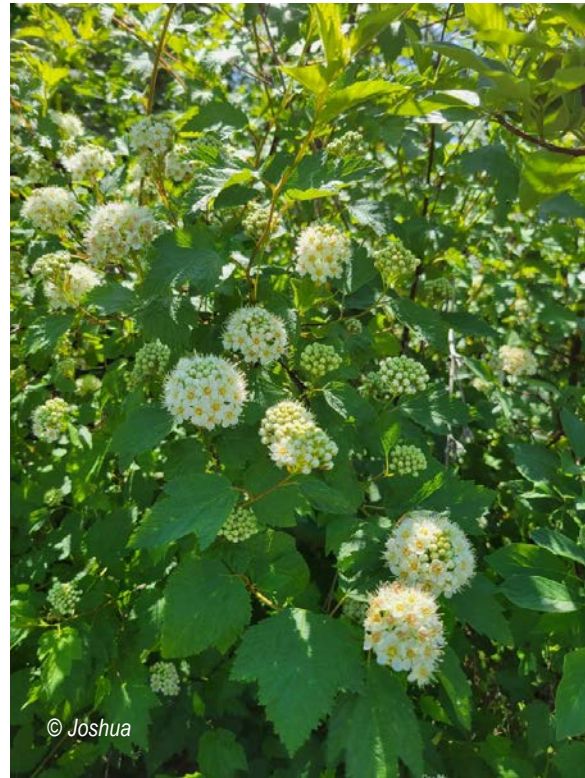
Photographs Supporting SEPA Checklist

Sims Way Gateway and Boatyard Expansion Project

# Shrubs



Philadelphus lewisii / Mock Orange



Physocarpus capitatus / Pacific Ninebark



Ribes sanguineum / Red Flowering Currant



Rosa nutkana / Nootka Rose



Symphoricarpos albus / Snowberry



Vaccinium ovatum / Evergreen Huckleberry

## Plant Materials Images

Photographs Supporting SEPA Checklist

Sims Way Gateway and Boatyard Expansion Project

# Groundcover



Carex lyngbyei / Lyngbye's Sedge



Deschampsia cespitosa / Tufted Hairgrass



Fragaria chiloensis / Beach Strawberry



Leymus mollis / Dunegrass



Lupinus littoralis / Coastal Lupine



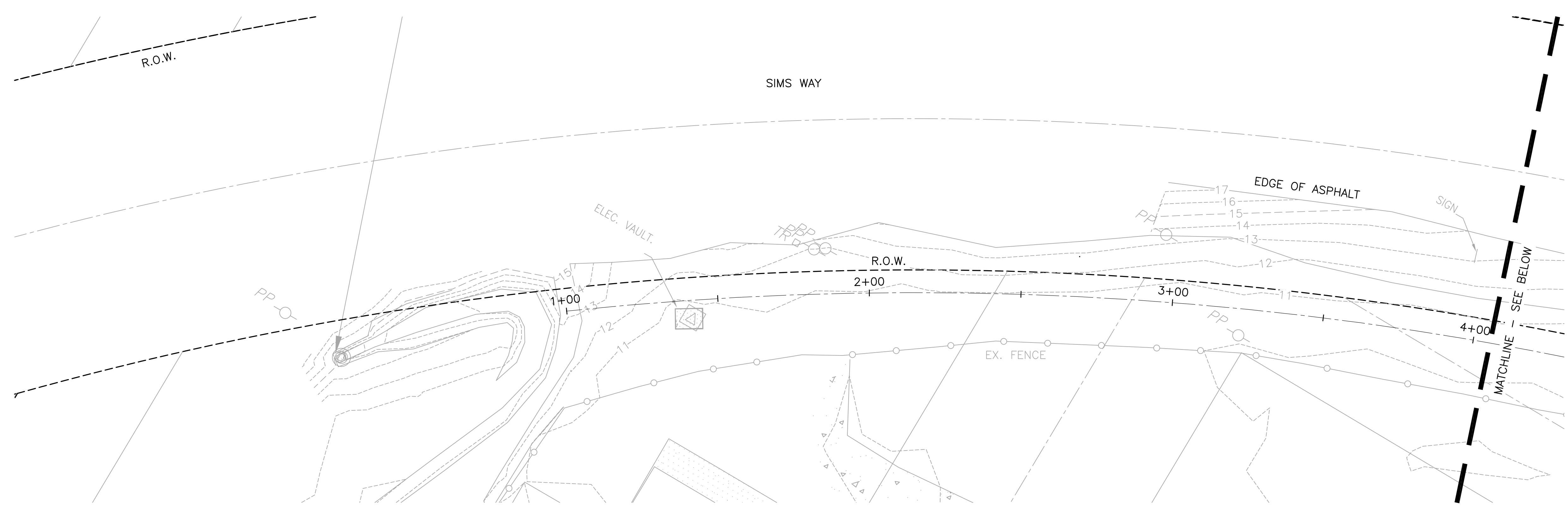
Polystichum munitum / Sword Fern

## Plant Materials Images

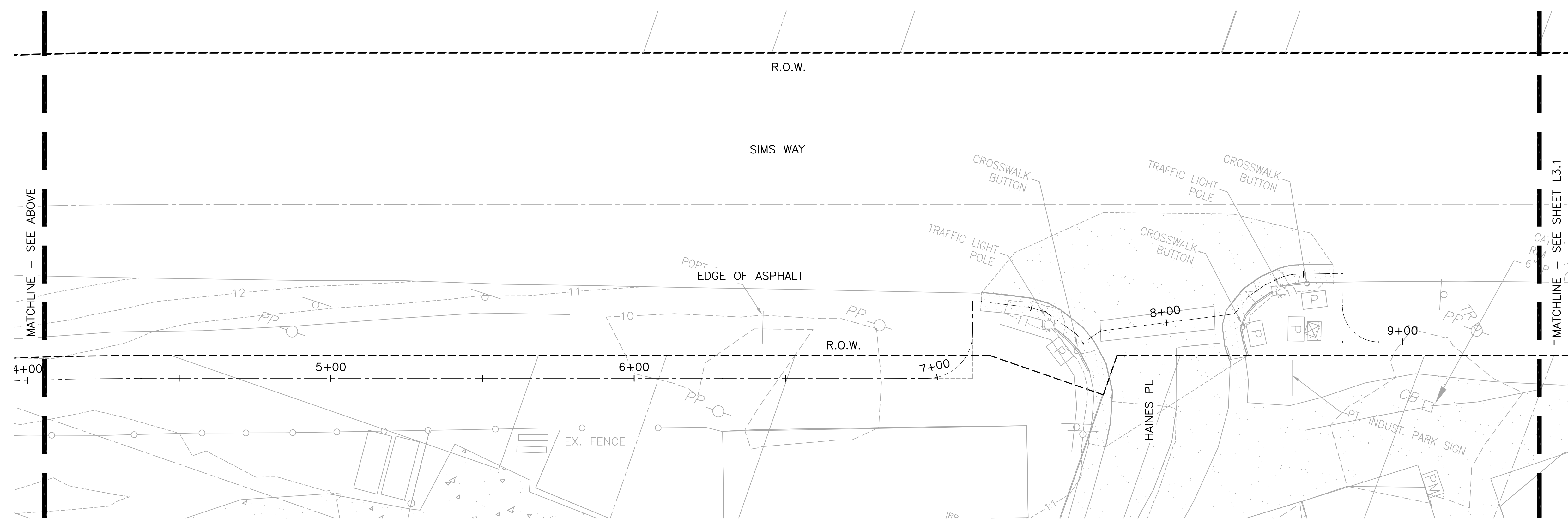
Photographs Supporting SEPA Checklist

Sims Way Gateway and Boatyard Expansion Project

FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CA0\Working\SWGB-IRRIG.dwg PLOTTED: Thursday, September 26, 2024 - 1:46pm USER: jameed



- IRRIGATION NOTES:**
1. CONFIRM STATIC PRESSURE BETWEEN 125 PSI AND 140 PSI.



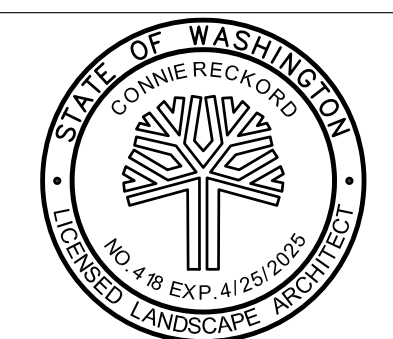
- IRRIGATION PLAN ACTION ITEMS:**
1. LOCATE EXISTING MAIN LINE(S) EAST OF HASTINGS PL.
  2. "PROVIDE NEW WATER METER, LOCATION AND SIZE TBD"
  3. "PROVIDE DCVA MAIN ASSEMBLY PER CITY OF PORT TOWNSEND STANDARDS; LOCATION AND SIZE TBD"
  4. "PROVIDE PEDESTAL MOUNTED CABINET FOR IRRIGATION CONTROLLER; LOCATION AND SIZE TBD"

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE: AS SHOWN  
 DATE: SEPT 2024  
 DRAWN BY: J.D.  
 CHECKED BY: C.R.  
 JOB NO.:

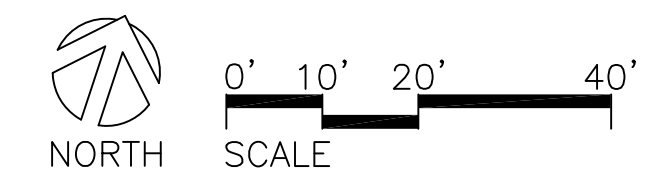
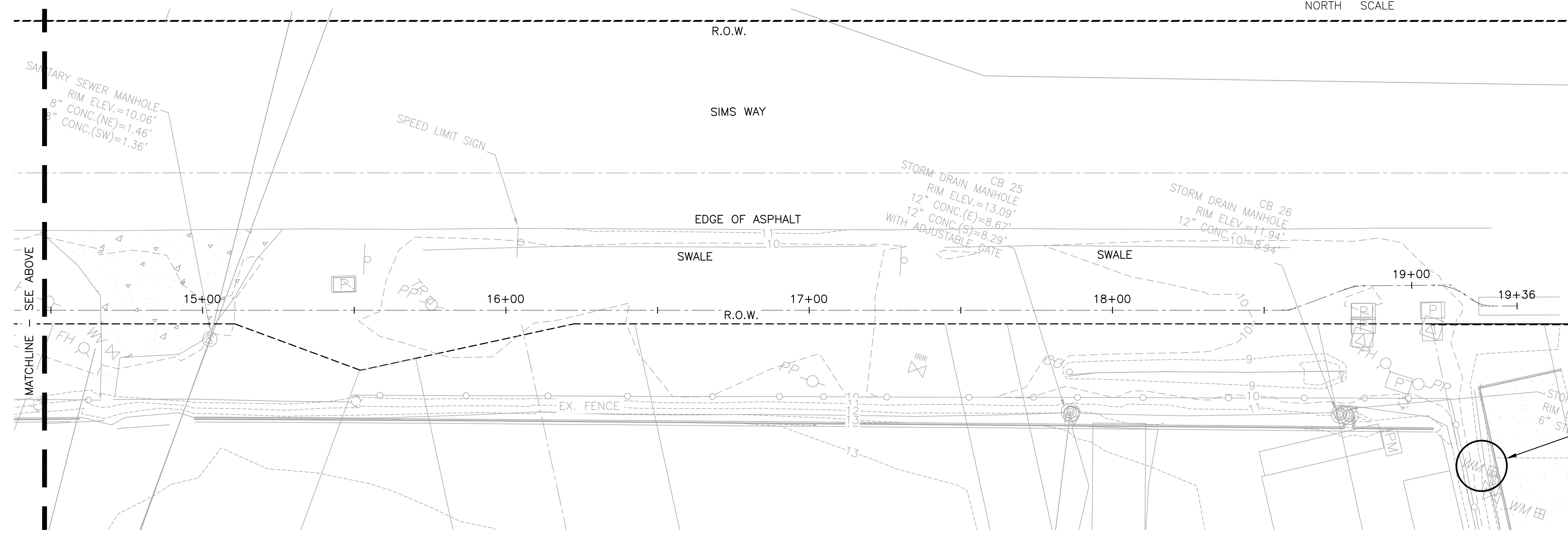
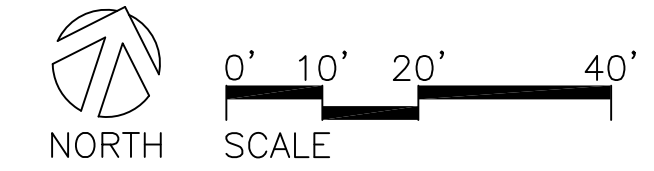
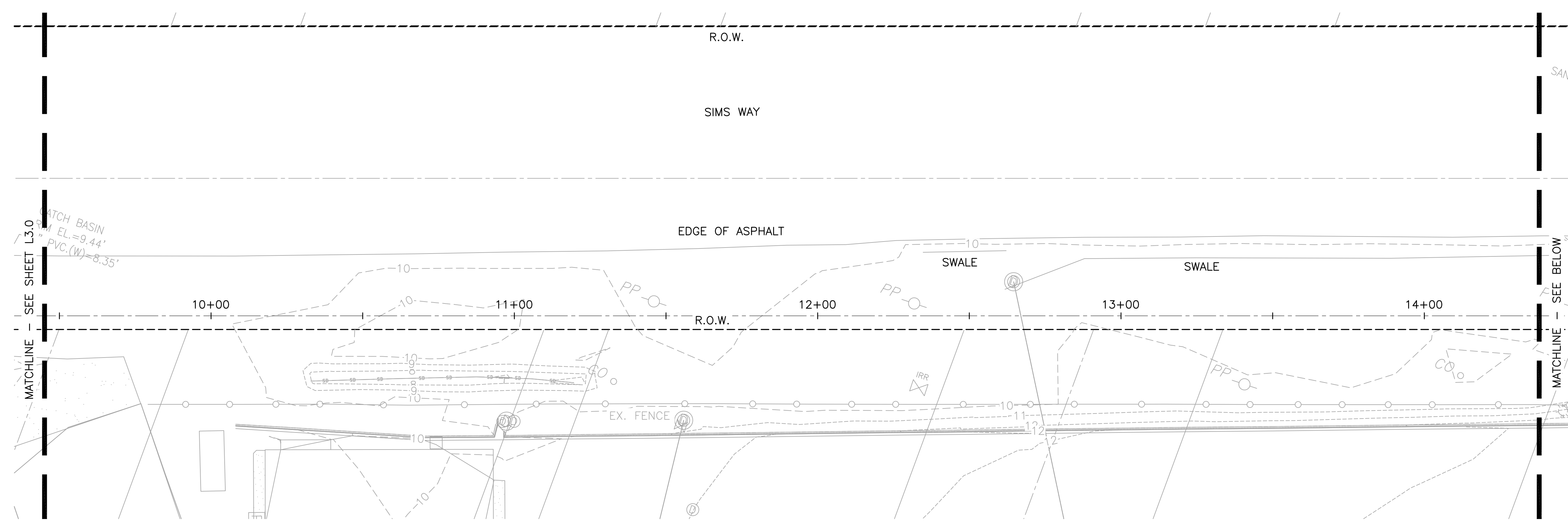
**IRRIGATION PLAN**

SHEET  
**L3.0**



**IRRIGATION NOTES:**

- SEE SHEET L3.0 FOR IRRIGATION NOTES.



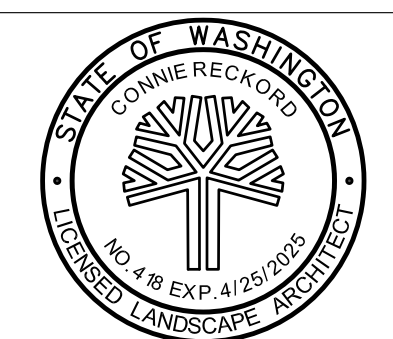
FILE NAME: Z:\Projects\Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-IRRIG.dwg PLOTTED: Thursday, September 26, 2024 - 10:55am USER: jrmast

REVISIONS:	DATE



**PORT OF PORT TOWNSEND**  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord PLLC**  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

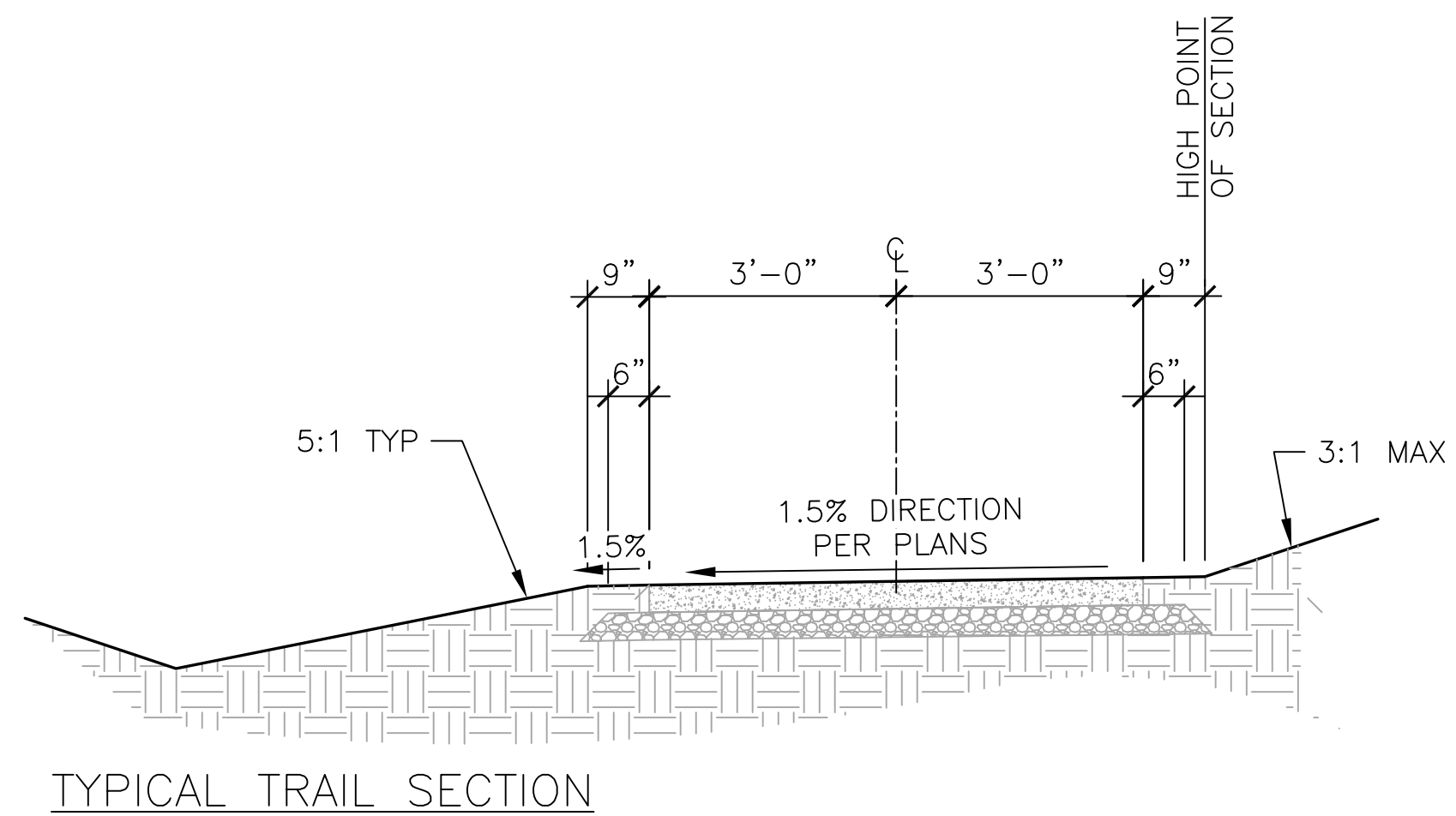
**SIMS WAY GATEWAY AND BOATYARD EXPANSION**

SCALE: AS SHOWN  
 DATE: SEPT 2024  
 DRAWN BY: J.D.  
 CHECKED BY: C.R.  
 JOB NO.:

**IRRIGATION PLAN**

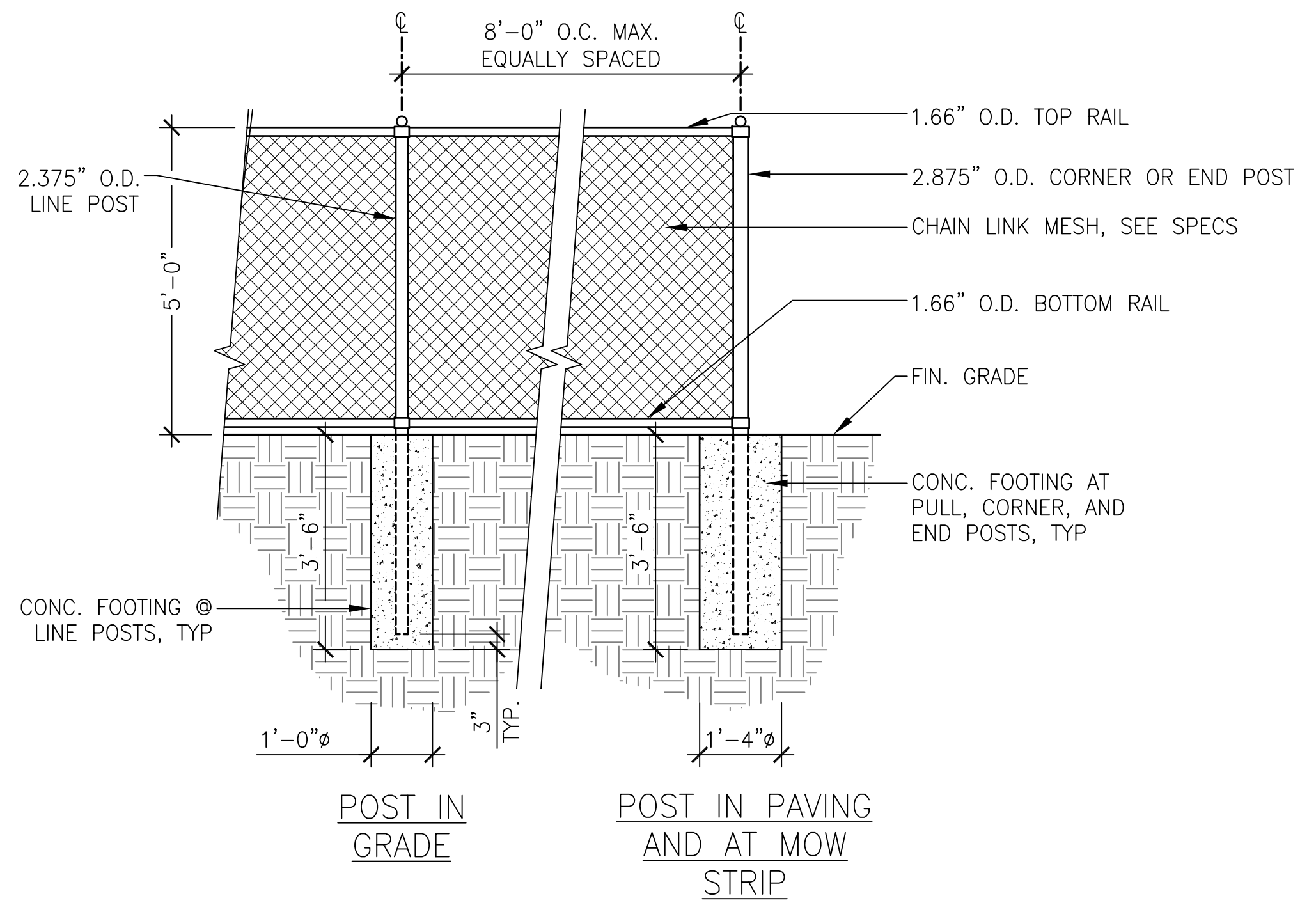
SHEET  
**L3.1**

FILE NAME: Z:\Projects\ Sims Way Gateway and Boatyard Expansion\CAO\Working\SWGB-DTLS.dwg PLOTTED: Thursday, September 26, 2024 - 11:06am USER: jarnesd



TYPICAL TRAIL SECTION

**1** TYPICAL TRAIL SECTION  
 SCALE: 1/2"=1'-0"



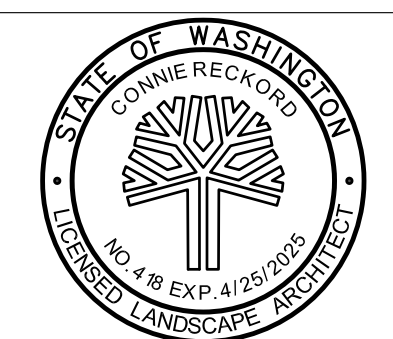
**2** FENCE  
 SCALE: 1/2"=1'-0"

REVISIONS:	DATE



PORT OF PORT TOWNSEND  
 2701 JEFFERSON STREET  
 P.O. BOX 1180  
 PORT TOWNSEND, WA 98368

**MacLeod Reckord** PLLC  
 110 Prefontaine Place South, Suite 600  
 Seattle, Washington 98104  
 P 206-323-7919  
 F 206-323-9242



**Call before you Dig.**  
 1-800-424-5555  
 UNDERGROUND SERVICE (USA)

<b>SIMS WAY GATEWAY AND BOATYARD EXPANSION</b>		<b>TRAIL CONSTRUCTION DETAILS</b>	<b>L4.0</b>
SCALE: AS SHOWN	DATE: SEPT 2024		
DRAWN BY: J.D.	CHECKED BY: C.R.	JOB NO.:	



# JEFFERSON COUNTY PUD

## 115kV UNDERGROUND TRANSMISSION LINE



*NOT FOR CONSTRUCTION*

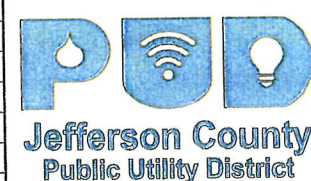
JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT  
115kV UNDERGROUND TRANSMISSION LINE  
COVER SHEET

SCALE: NTS  
DRAWING No. 531-025-E001  
REVISION: A

Des. By:	KAC	Date:	05/08/24
Drawn By:	KAC	Date:	05/08/24
Chk'd. By:	ML	Date:	-
ENCR.	ML	Date:	-
APPD.		Date:	
APPD.		Date:	

THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

CONFIDENTIAL



No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		

DRAWING LIST	
DWG. NO.	TITLE
E001	COVER SHEET
E002	DRAWING LIST & MATERIAL LIST
D100	DEMOLITION PLAN
E100	CABLE INSTALLATION
E101	TRANSMISSION VAULT ELECTRICAL DETAILS
E102	DISTRIBUTION VAULT ELECTRICAL DETAILS
E103	SWITCH VAULT ELECTRICAL DETAILS
E210	RISER STRUCTURE DETAILS
C100	CONDUIT AND VAULT ARRANGEMENT
C101	TYPICAL CONDUIT TRENCH SECTIONS
C102	TRANSMISSION VAULT NOTES AND DETAILS
C103	DISTRIBUTION VAULT NOTES AND DETAILS
C104	SWITCH VAULT NOTES AND DETAILS
C201	DRILLED PIER NOTES & DETAILS
S101	RISER POLE DESIGN DATA
S102	RISER POLE SECTIONS & DETAILS
B100	BORING LOCATIONS

MATERIAL LIST				
ITEM	QTY.	DESCRIPTION	MANUF.	CAT. NO.
1	20'	WIRE, #6 AWG SOLID BARE COPPER, SOFT DRAWN	-	-
2	60'	WIRE, #1/0 AWG ACSR "RAVEN"	-	-
	30'	WIRE, 795 kcmil ACSR "DRAKE"	-	-
3	6	INSULATOR, DEAD END, 115 kV, SILICONE RUBBER POLYMER	NGK LOCKE	251-SC310-SJ
4	3	DEAD END, QUADRANT CLAMP, #1/0 ACSR	HUBBELL	SD70N
	3	DEAD END, QUADRANT CLAMP, 795 ACSR	HUBBELL	SD112N
5	3	CONNECTOR, WEDGE, #1/0 ACSR TO #1/0 ACSR	TE/AMP	600403
6	3	CONNECTOR, WEDGE, 795 ACSR TO 795 ACSR	TE/AMP	602121
6	15	TERMINAL, COMPRESSION, #1/0 ACSR, 4 HOLE PAD	HUBBELL	CCLS39BC
	3	TERMINAL, COMPRESSION, 795 ACSR, 4 HOLE PAD	HUBBELL	JTS12
7	6	TERMINAL, BOLTED, 1.57" DIA. AL, 4 HOLE PAD	HUBBELL	ASTF12C
8	12	HARDWARE KIT, (4) 1/2" STAINLESS STEEL BOLTS w/ WASHERS AND NUTS	HUBBELL	SS4HDW250
9	6	BALL Y-CLEVIS, HOT LINE, 30 kip	HUBBELL	HYBC30
10	3	SOCKET EYE, HOT LINE, 30 kip	HUBBELL	HSE10006
	3	SOCKET EYE, HOT LINE, 30 kip	HUBBELL	HSE10010
11	6	SURGE ARRESTER, RISER, 120 kV, 98 kV MCOV	MACLEAN	ZRP009-0000001
12	6	UG CABLE TERMINATOR, 115 kV, 750 AL	-	-
13	42	CLAMP, CABLE SUPPORT, 750 AL, 115 kV CABLE	RAYCHEM	CC68-81-PL-M12
14	9	CONDUIT, ELBOW, 6", FIBERGLASS, 84" RADIUS, 90'	-	-
15	56	CONDUIT, ELBOW, 4", FIBERGLASS, 60" RADIUS, 22.5'	-	-
16	7920'	CONDUIT, 4"	-	-
17	5400'	CONDUIT, 6"	-	-
18	5580'	CABLE, 500 kcmil AL, 15kV CONCENTRIC NEUTRAL	-	-
19	6000'	CABLE, 500 kcmil CU, 115kV TAPE SHIELDED	-	-
20	12	CABLE, ELBOW, 600A NON-LOADBREAK, 500 AL	-	-
21	6	CABLE, TERMINATOR, 115kV, 500 kcmil CU, TAPE SHIELDED	-	-
22	3	CABLE, SPLICE, 15kV, 500 kcmil AL, CONCENTRIC NEUTRAL	-	-
23	3	CABLE, SPLICE, 115kV, 500 kcmil CU, TAPE SHIELDED	-	-
24	20	UNDERGROUND CABLE RACK	MACLEAN	J5125
25	48	CABLE HOOK	MACLEAN	J5134A
26	66	RACK INSULATOR	MACLEAN	J5122
27	66	CABLE TIE	-	-
28	55	GROUND CLAMP, SPLIT BOLT, #4/0 CU TO #4/0 OR #6 CU	BURNDY	KSU29
29	48	GROUND CLAMP, LAY-IN-LUG, #4/0 OR #6 CU	BURNDY	BGBL250
30	4	GROUND CLAMP, 1/2" PULLING IRON	HUBBELL	GC1112A
31	12	GROUND CLAMP, 3/4" OR 7/8" PULLING IRON	HUBBELL	GC1113A
32	18	GROUND CLAMP, VAULT GROUND	HUBBELL	GTCS41
33	3	GROUND CLAMP, TERMINAL, #6 CU	BURNDY	K44C

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMEDIUM CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY. ©ICPE 2024

Des By:	KAC	Date	05/08/24
Drawn By:	KAC	Date	05/08/24
Chk'd. By:	ML	Date	-
ENGR.	ML	Date	-
APPD.		Date	
APPD.		Date	

**NOT FOR CONSTRUCTION**

**DRAWING LIST & MATERIAL LIST**  
**PUBLIC UTILITY DISTRICT**  
**115kV UNDERGROUND TRANSMISSION LINE**  
**COVER SHEET**

SCALE: NTS  
 Project No. 531-025  
 DRAWING No. **531-025-E002**  
 REVISION: **A**



INSTALL (3) 500 kcmil AL, 115kV TRANSMISSION CABLES FROM NEW STEEL POLE #1 TO NEW TRANSMISSION VAULT TV1.

INSTALL NEW SERIES 9 15kV SWITCH, SG2. TERMINATE (6) 500 kcmil AL, 15kV DISTRIBUTION CABLES AT NEW SWITCH SG2.

INSTALL (3) 500 kcmil AL, 15kV DISTRIBUTION CABLES FROM EXISTING SWITCH SG1 TO NEW SWITCH SG2.

TERMINATE (3) 500 kcmil AL, 15kV DISTRIBUTION CABLES AT EXISTING SWITCH SG1.

INSTALL TRANSMISSION RISER ON NEW STEEL POLE #1. TERMINATE (3) 500 kcmil CU, 115kV CABLES AT NEW STEEL POLE #1.

CENTERLINE OF SIMS WAY BASED ON PAINT STRIPE.

INSTALL (3) 500 kcmil AL, 15kV DISTRIBUTION CABLES FROM NEW SWITCH SG2 TO NEW DISTRIBUTION VAULT DV1.

LOOP CABLES AROUND INSIDE OF NEW DISTRIBUTION VAULT DV1. SPLICE (3) 500 kcmil AL, 15kV DISTRIBUTION CABLES FROM NEW SWITCH SG2 TO (3) 500 kcmil AL, 15 kV DISTRIBUTION CABLES FROM EXISTING SWITCH SG3.

SPLICE (3) 500 kcmil AL, 115kV TRANSMISSION CABLES FROM POLE #1 TO (3) 500 kcmil AL, 115kV TRANSMISSION CABLES FROM POLE #2 IN TRANSMISSION VAULT TV1.

INSTALL (3) 500 kcmil AL, 15kV DISTRIBUTION CABLES FROM NEW DISTRIBUTION VAULT DV1 TO EXISTING SWITCH SG3.

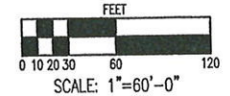
TERMINATE (3) 500 kcmil AL, 15kV DISTRIBUTION CABLES AT EXISTING SWITCH SG3.

INSTALL (3) 500 kcmil AL, 115kV TRANSMISSION CABLES FROM NEW TRANSMISSION VAULT TV1 TO NEW STEEL POLE #2.

INSTALL TRANSMISSION RISER ON NEW STEEL POLE #2. TERMINATE (3) 500 kcmil CU, 115kV TRANSMISSION CABLES AT NEW STEEL POLE #2.

**CABLE LENGTHS**

- DISTRIBUTION CABLES**  
 (3) 500 kcmil AL, 15kV CONCENTRIC NEUTRAL  
 SG1 TO SG2 = 625'  
 SG2 TO DV1 = 590'  
 DV1 TO SG3 = 645'  
 TOTAL = 1860'X3 = 5580'
- TRANSMISSION CABLES**  
 (3) 500 kcmil CU, 115kV TAPE SHIELDED  
 NEW POLE #1 TO TV1 = 1800'  
 TV1 TO NEW POLE #2 = 200'  
 TOTAL = 2000'X3 = 6000'



*NOT FOR CONSTRUCTION*

JEFFERSON COUNTY  
 PUBLIC UTILITY DISTRICT  
 115 kV UNDERGROUND TRANSMISSION LINE  
 CABLE INSTALLATION

SCALE 1"=60' DRAWING No. 531-025-E100 REVISION A  
 Project No. 531-025

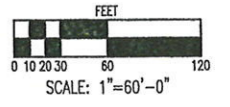
No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, ENVELOPED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
 © ICPE 2024

Des. By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd. By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	

CONFIDENTIAL



*NOT FOR CONSTRUCTION*

**JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT**

**115 kV UNDERGROUND TRANSMISSION LINE  
DEMOLITION PLAN**

SCALE	1"=60'	DRAWING No.	531-025-D101
Project No.	531-025	REVISION	A

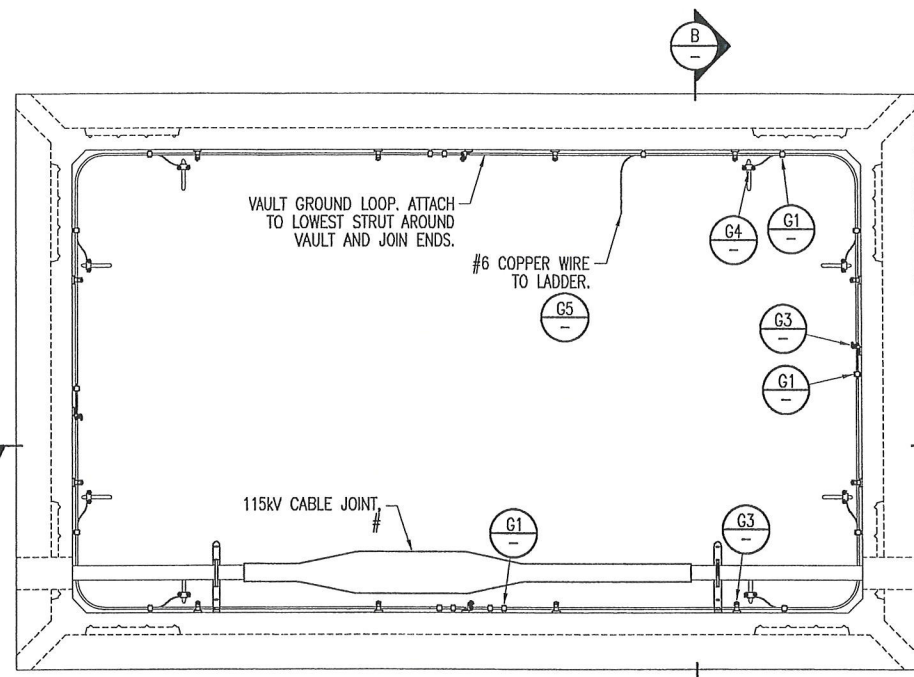
No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



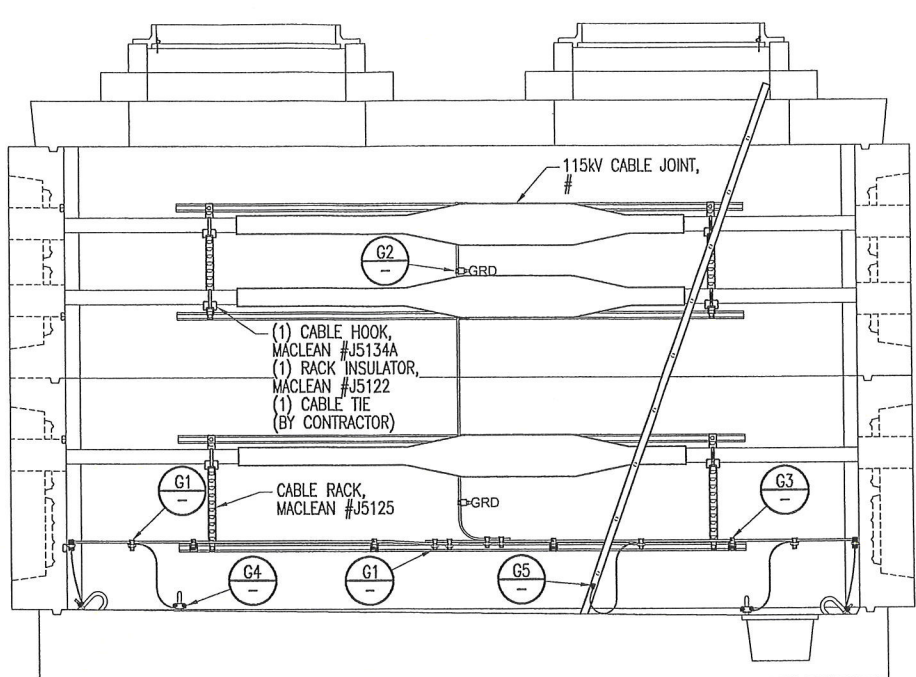
THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

Des. By:	KAC	Date:	06/08/23
Drawn By:	KAC	Date:	06/08/23
Chk'd. By:	LAB	Date:	06/08/23
ENCR.	LAB	Date:	06/06/23
APPD.		Date:	
APPD.		Date:	

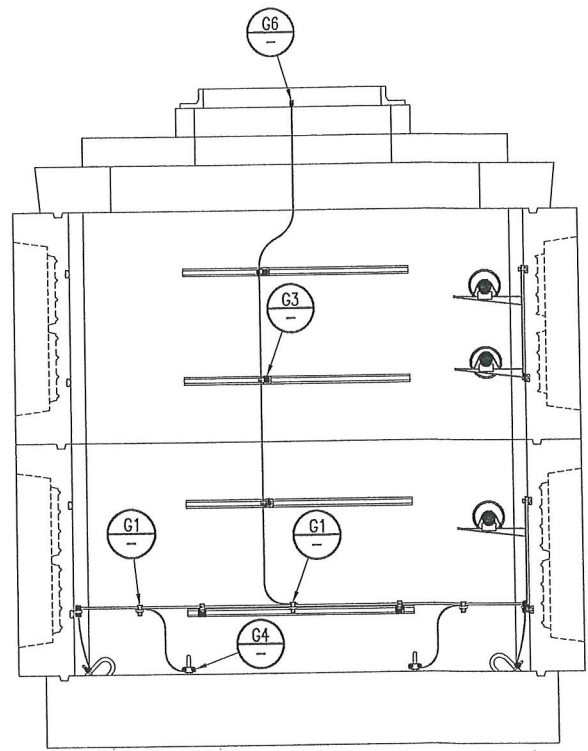
CONFIDENTIAL



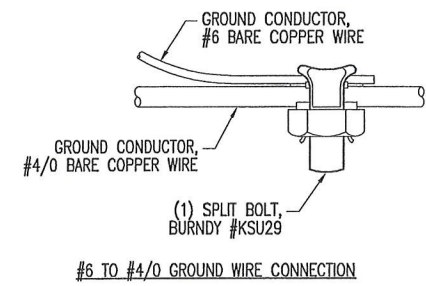
**TRANSMISSION VAULT ELECTRICAL DETAILS** (E1)  
SCALE: NTS



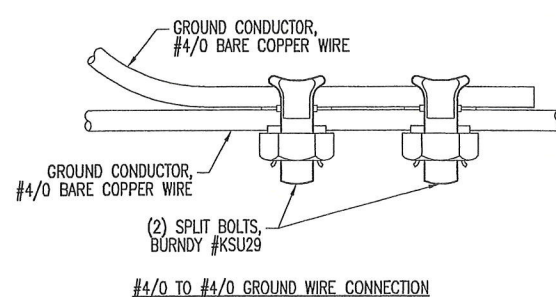
**VAULT SIDE WALL** (A)  
SCALE: NTS



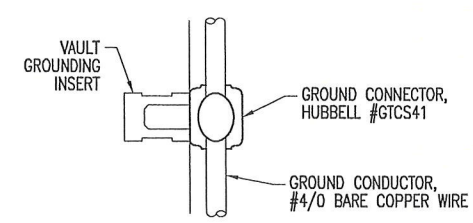
**VAULT END WALL** (B)  
SCALE: NTS



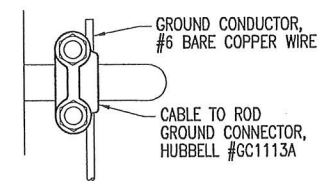
**GROUND WIRE CONNECTION** (G1)  
SCALE: NTS



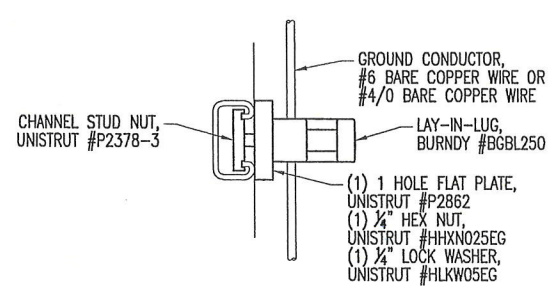
#4/0 TO #4/0 GROUND WIRE CONNECTION



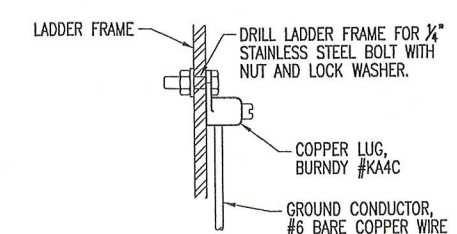
**VAULT GROUNDING** (G2)  
SCALE: NTS



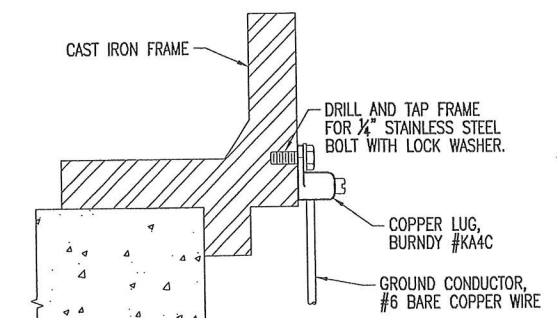
**PULLING IRON GROUNDING** (G4)  
SCALE: NTS



**STRUT GROUNDING** (G3)  
SCALE: NTS



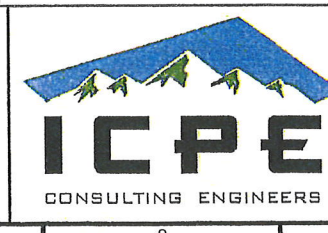
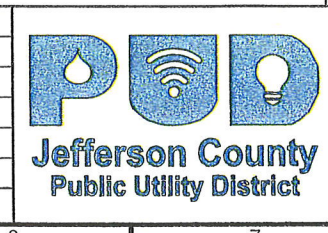
**LADDER GROUNDING** (G5)  
SCALE: NTS



**CAST IRON FRAME GROUNDING** (G6)  
SCALE: NTS

**NOT FOR CONSTRUCTION**

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		

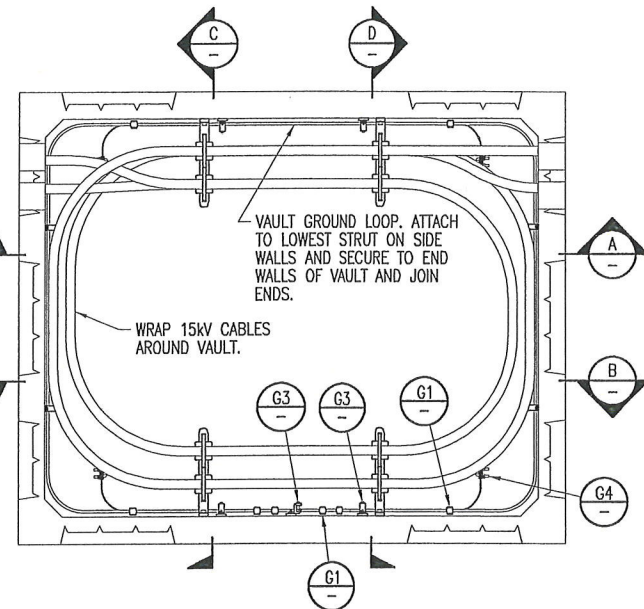


THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSULTING PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFREMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY. © ICPE 2024

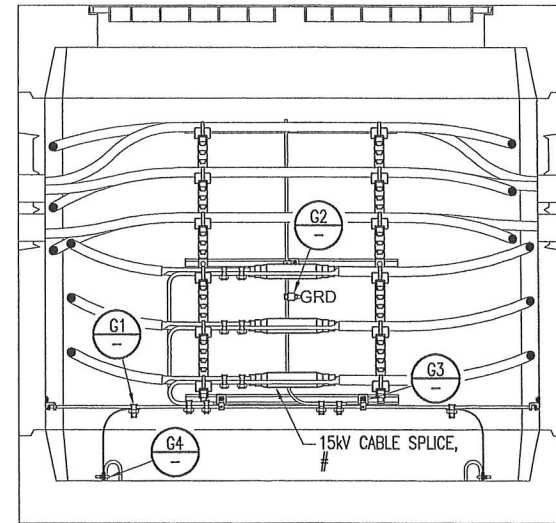
Des By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd. By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	

**JEFFERSON COUNTY PUBLIC UTILITY DISTRICT**  
**115 kV UNDERGROUND TRANSMISSION LINE TRANSMISSION VAULT ELECTRICAL DETAILS**

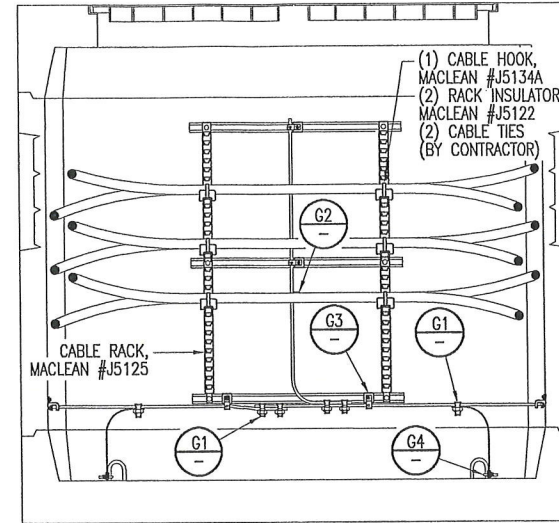
SCALE: NTS  
 DRAWING No. **531-025-E101**  
 Project No. 531-025  
 REVISION **A**



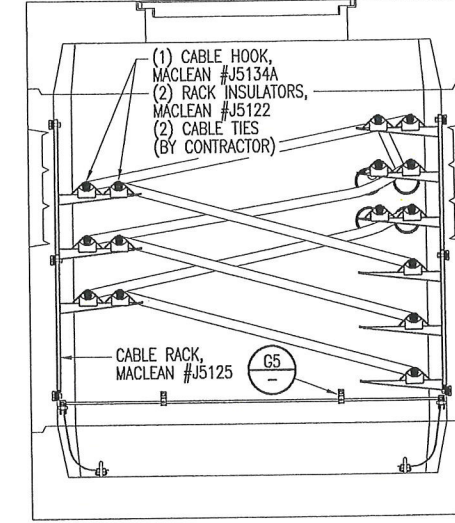
**DISTRIBUTION VAULT ELECTRICAL DETAILS**  
SCALE: NTS



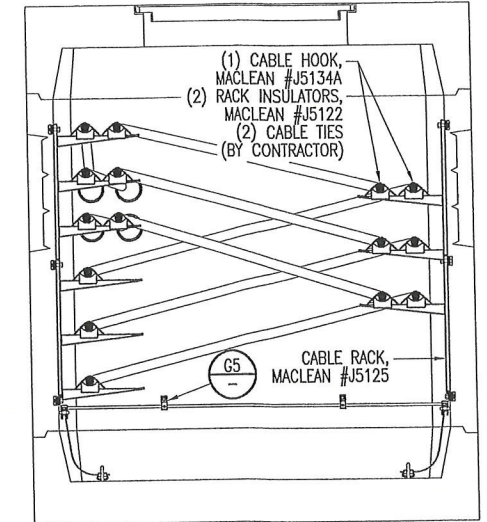
**VAULT SIDE WALL A**  
SCALE: NTS



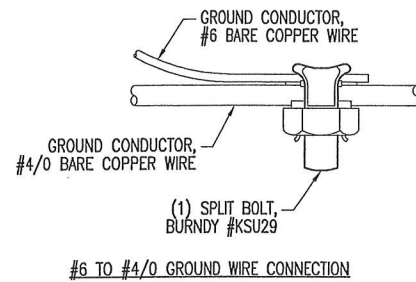
**VAULT SIDE WALL B**  
SCALE: NTS



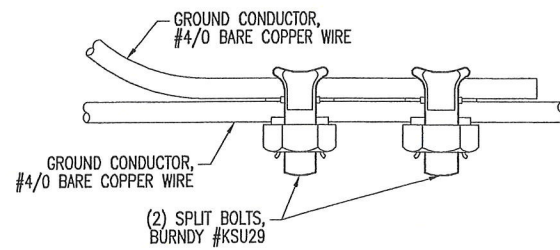
**VAULT END WALL C**  
SCALE: NTS



**VAULT END WALL D**  
SCALE: NTS

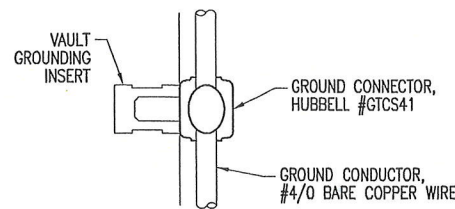


**#6 TO #4/0 GROUND WIRE CONNECTION**

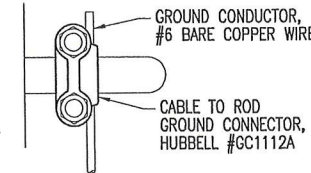


**#4/0 TO #4/0 GROUND WIRE CONNECTION**

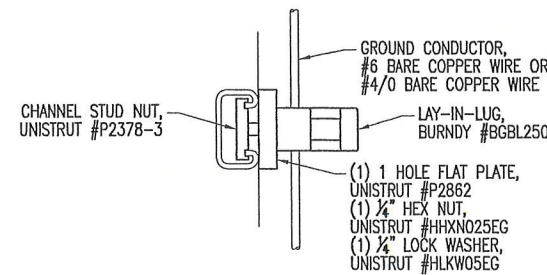
**GROUND WIRE CONNECTION G1**  
SCALE: NTS



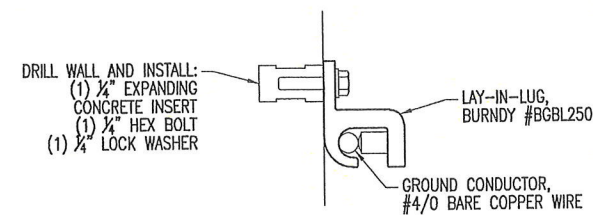
**VAULT GROUNDING G2**  
SCALE: NTS



**PULLING IRON GROUNDING G4**  
SCALE: NTS



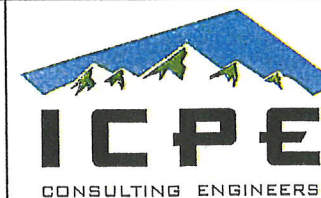
**STRUT GROUNDING G3**  
SCALE: NTS



**GROUND CONDUCTOR SUPPORT G5**  
SCALE: NTS

**NOT FOR CONSTRUCTION**

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		

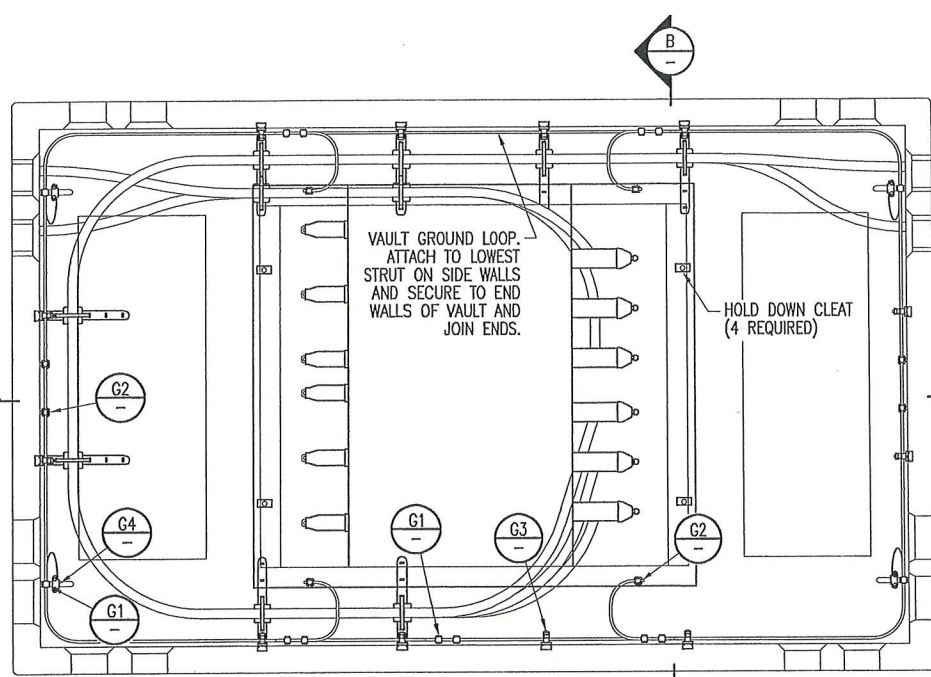


THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

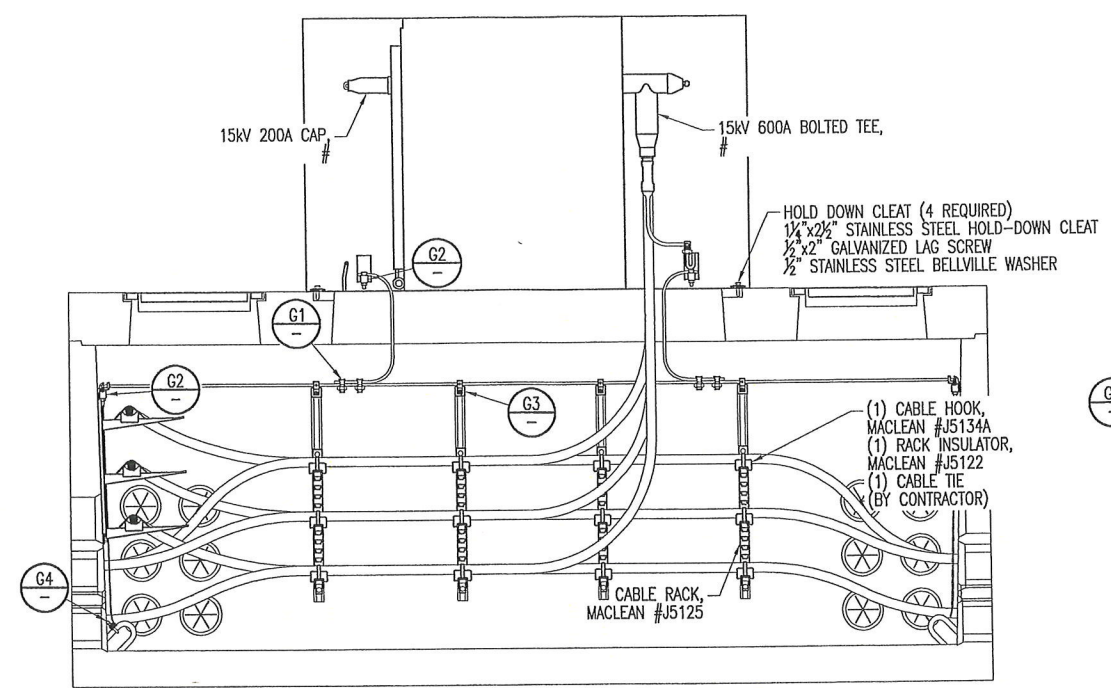
Des By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd. By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	

<b>JEFFERSON COUNTY PUBLIC UTILITY DISTRICT</b> <b>115 kV UNDERGROUND TRANSMISSION LINE DISTRIBUTION VAULT ELECTRICAL DETAILS</b>		SCALE	NTS	DRAWING No.	531-025-E102	REVISION	A
		Project No.	531-025				

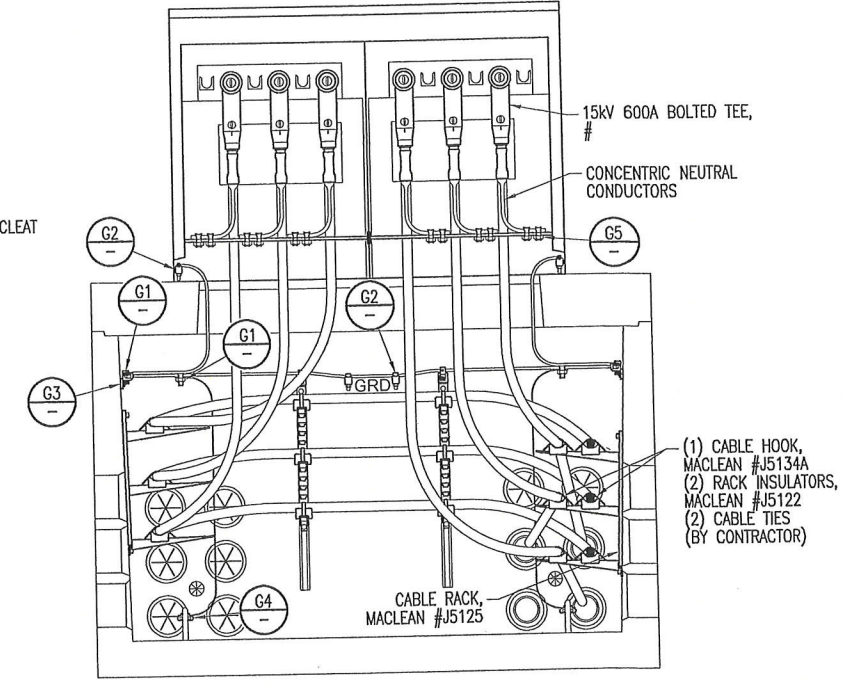




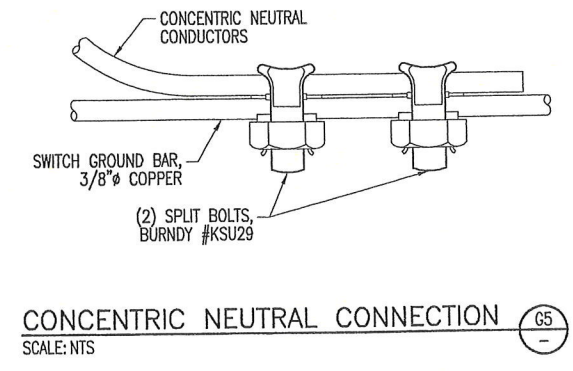
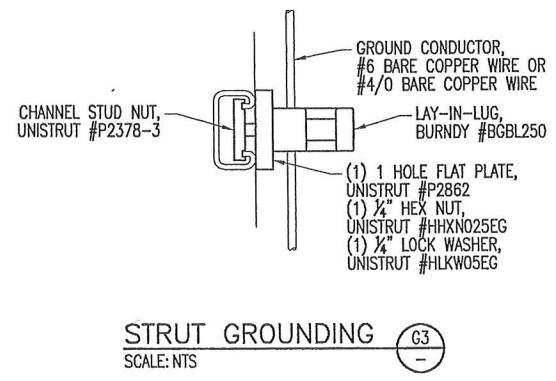
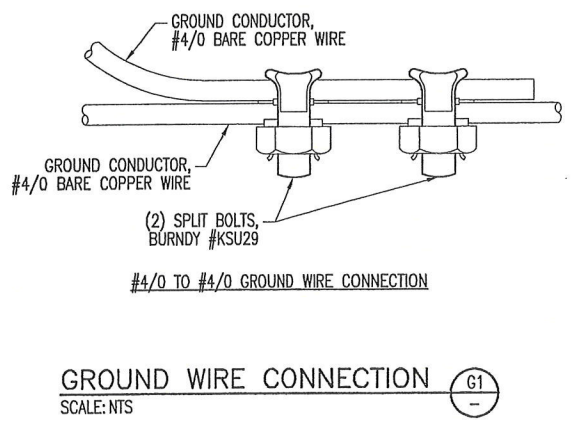
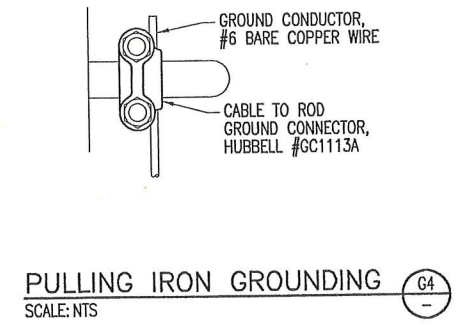
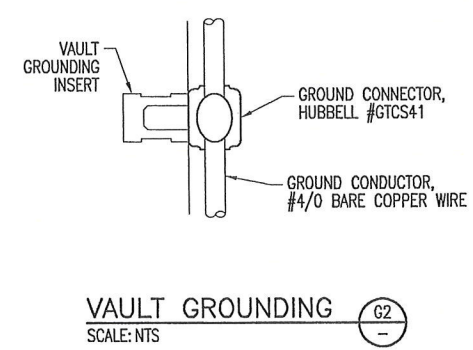
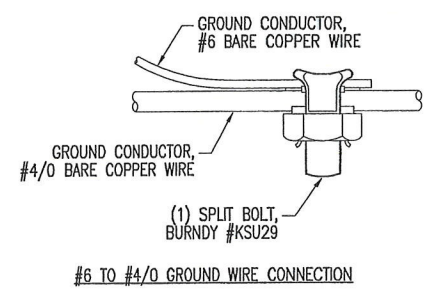
SWITCH VAULT ELECTRICAL DETAILS (E3)  
SCALE: NTS



VAULT SIDE WALL (A)  
SCALE: NTS



VAULT END WALL (B)  
SCALE: NTS



NOT FOR CONSTRUCTION

JEFFERSON COUNTY PUBLIC UTILITY DISTRICT  
115 kV UNDERGROUND TRANSMISSION LINE SWITCH VAULT ELECTRICAL DETAILS

SCALE: NTS  
DRAWING No. 531-025-E103  
REVISION A



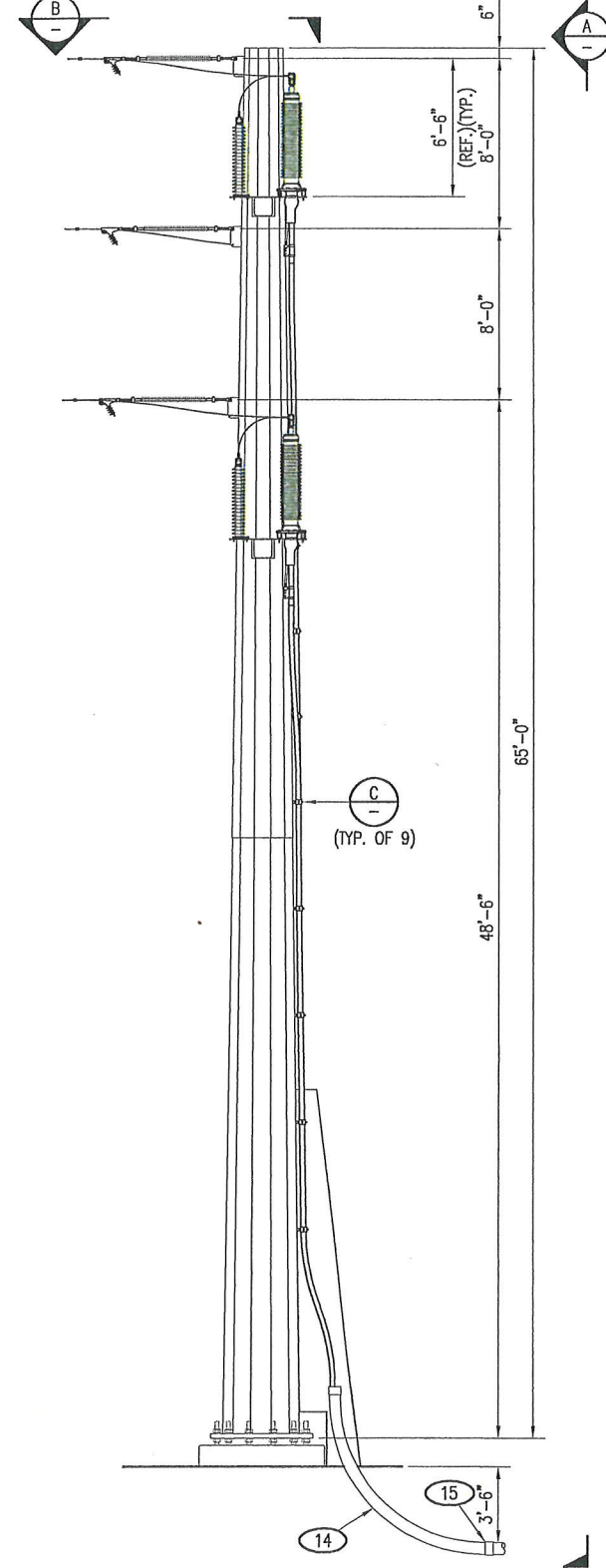
THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

CONFIDENTIAL

Des By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	

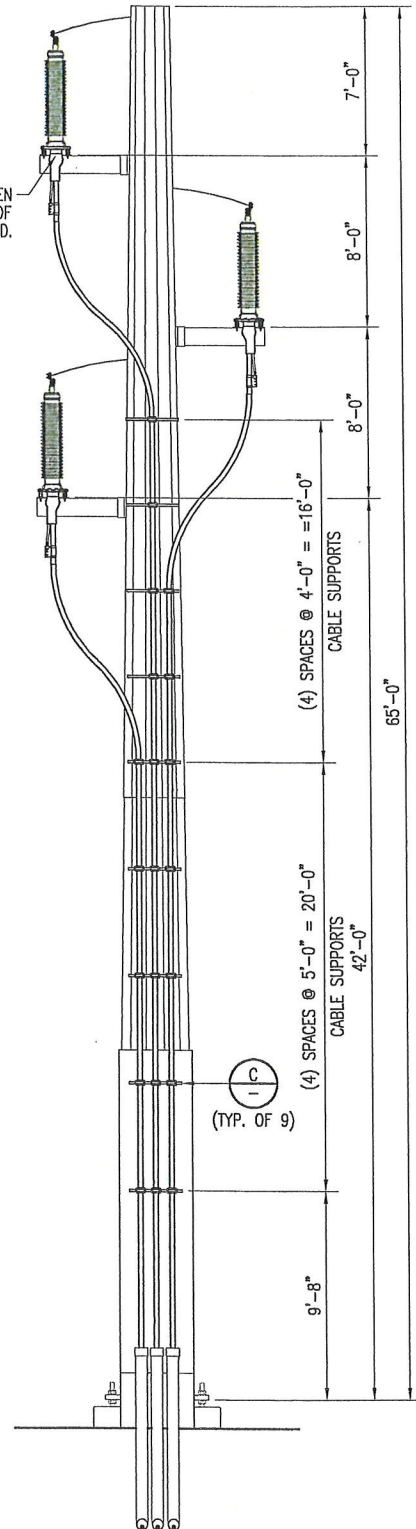
No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		

(TYP. OF 3)

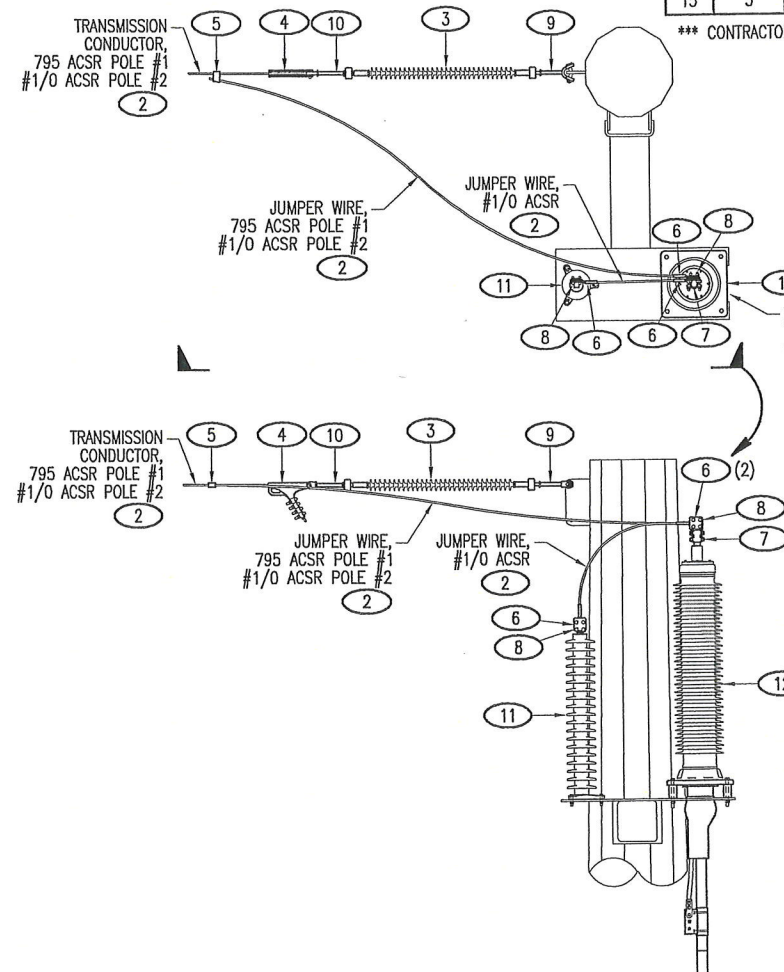


**RISER STRUCTURE FRAMING** (R1)  
SCALE: NTS

NOTE: END OF BRACKET IS OPEN TO ALLOW INSTALLATION OF TERMINATOR WITH CABLE ATTACHED.



**ELEVATION** (A)  
SCALE: NTS

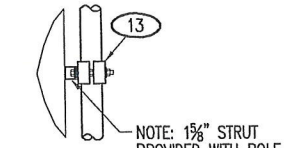


**TRANSMISSION CONDUCTOR** (B)  
SCALE: NTS

**MATERIAL LIST**

ITEM	QTY.		DESCRIPTION	MANUF.	CAT. NO.
	#1	#2			
1	10'	10'	WIRE, #6 AWG SOLID BARE COPPER, SOFT DRAWN	-	-
2	15'	45'	WIRE, #1/0 AWG ACSR "RAVEN"	-	-
	30'	-	WIRE, 795 kcmil ACSR "DRAKE"	-	-
3	3	3	INSULATOR, DEAD END, 115 kV, SILICONE RUBBER POLYMER	NGK LOCKE	251-SC310-SJ
4	-	3	DEAD END, QUADRANT CLAMP, #1/0 ACSR	HUBBELL	SD70N
	3	-	DEAD END, QUADRANT CLAMP, 795 ACSR	HUBBELL	SD112N
5	-	3	CONNECTOR, WEDGE, #1/0 ACSR TO #1/0 ACSR	TE/AMP	600403
6	3	-	CONNECTOR, WEDGE, 795 ACSR TO 795 ACSR	TE/AMP	602121
6	6	9	TERMINAL, COMPRESSION, #1/0 ACSR, 4 HOLE PAD	HUBBELL	CCLS398C
	3	-	TERMINAL, COMPRESSION, 795 ACSR, 4 HOLE PAD	HUBBELL	JTS12
7	3	3	TERMINAL, BOLTED, 1.57" DIA. AL., 4 HOLE PAD	HUBBELL	ASTF12C
8	6	6	HARDWARE KIT, (4) 1/2" STAINLESS STEEL BOLTS w/ WASHERS AND NUTS	HUBBELL	SS4HDW250
9	3	3	BALL Y-CLEVIS, HOT LINE, 30 kip	HUBBELL	HYBC30
10	-	3	SOCKET EYE, HOT LINE, 30 kip	HUBBELL	HSE10006
	3	-	SOCKET EYE, HOT LINE, 30 kip	HUBBELL	HSE10010
11	3	3	SURGE ARRESTER, RISER, 120 kV, 98 kV MCOV	MACLEAN	ZRP009-0000001
12	3	3	UG CABLE TERMINATOR, 115 kV, 750 AL	-	-
13	21	21	CLAMP, CABLE SUPPORT, 750 AL, 115 kV CABLE	RAYCHEM	CC68-81-PL-M12
14	3	3	CONDUIT, ELBOW, 6", FIBERGLASS, 84" RADIUS	-	-
15	3	3	CONDUIT ADAPTER, 6" PVC TO 6" FIBERGLASS	-	-

\*\*\* CONTRACTOR TO COMPLETE PART NUMBER FOR LENGTH AS REQUIRED.



**CABLE SUPPORT** (C)  
SCALE: NTS

**NOTES:**  
1. THE MATERIAL LISTS ARE FOR IDENTIFICATION OF ITEMS ONLY. THE CONTRACTOR SHALL PURCHASE ALL MATERIAL INDICATED ON THE MATERIAL LIST AND ANY OTHER MATERIAL NECESSARY FOR PROJECT CONSTRUCTION.

**NOT FOR CONSTRUCTION**

**JEFFERSON COUNTY PUBLIC UTILITY DISTRICT**  
115 kV UNDERGROUND TRANSMISSION LINE RISER STRUCTURE DETAILS

SCALE: NTS  
DRAWING No. 531-025-E210  
Project No. 531-025

Des By:	KAC	Date:	06/08/23
Drawn By:	KAC	Date:	06/08/23
Chk'd. By:	LAB	Date:	06/08/23
ENGR.	LAB	Date:	06/06/23
APPD.		Date:	
APPD.		Date:	

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		

**PUD**  
Jefferson County Public Utility District

**ICPE**  
CONSULTING ENGINEERS

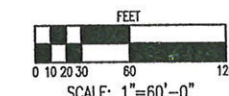
CONFIDENTIAL

THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024



**CONDUIT LENGTHS**

SECONDARY CONDUITS (2) 4"  
 DV1 EAST = 250'  
 DV1 WEST = 250'  
 TOTAL = 500'X2 = 1000'  
 DISTRIBUTION CONDUITS (4) 4"  
 SG1 TO SG2 = 585'  
 SG2 TO DV1 = 545'  
 DV1 TO SG3 = 600'  
 TOTAL = 1730'X4 = 6920'  
 TRANSMISSION CONDUITS (3) 6"  
 NEW POLE #1 TO TV1 = 1700'  
 TV1 TO NEW POLE #2 = 100'  
 TOTAL = 1800'X3 = 5400'



*NOT FOR CONSTRUCTION*

**JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT**

**115 kV UNDERGROUND TRANSMISSION LINE  
CONDUIT AND VAULT ARRANGMENT**

SCALE 1"=60' DRAWING No. **531-025-C100** REVISION **A**

Project No. 531-025

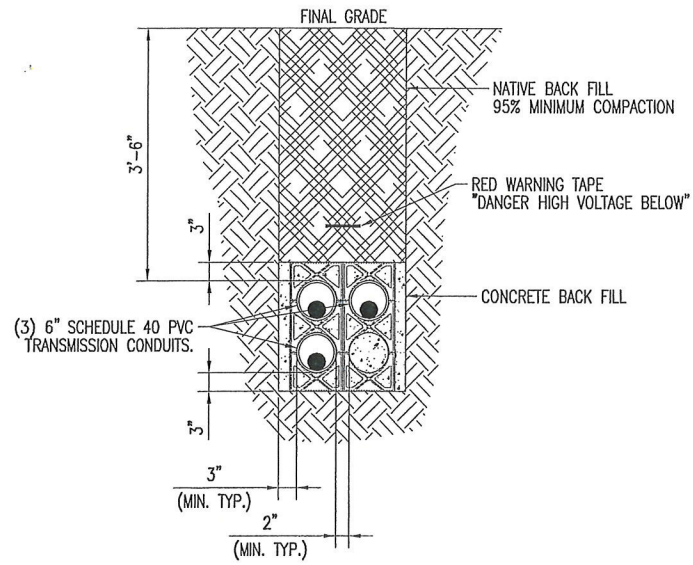
No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



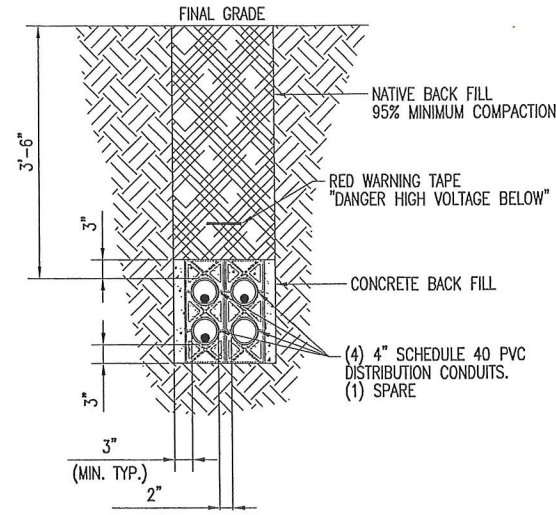
THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

**CONFIDENTIAL**

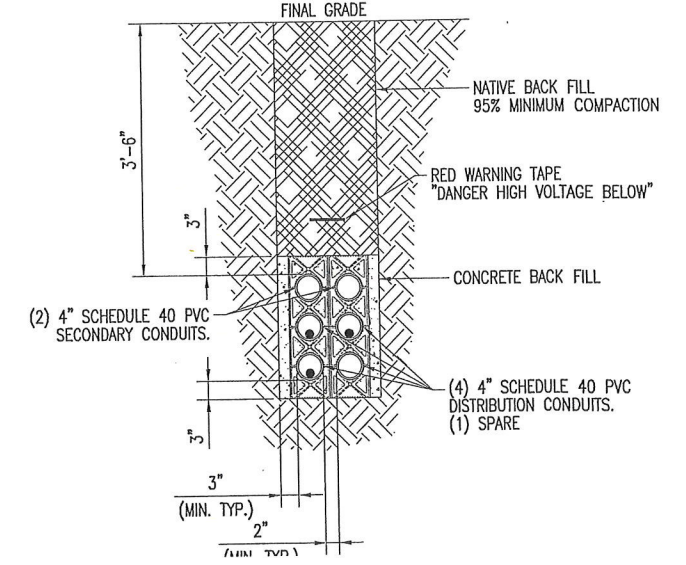
Des By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd. By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	



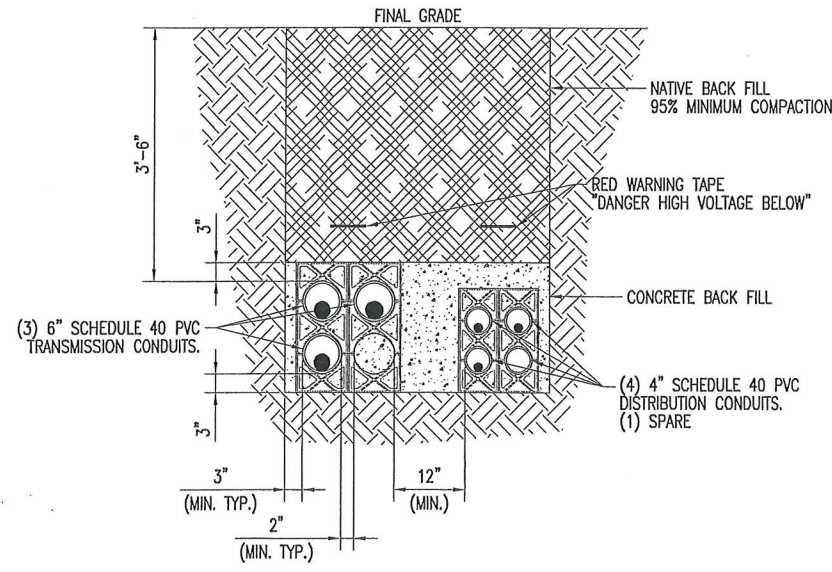
TYPICAL TRANSMISSION CONDUITS (C1)  
SCALE: NTS



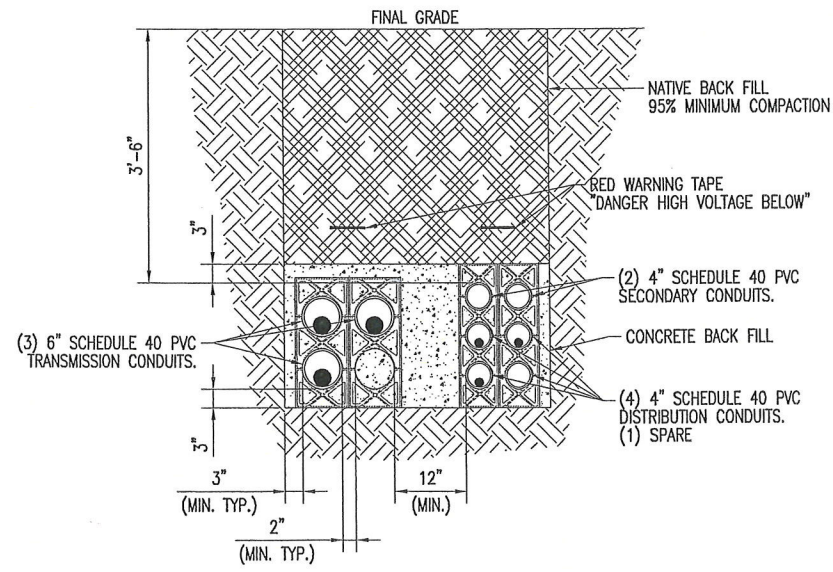
TYPICAL DISTRIBUTION CONDUITS (C2)  
SCALE: NTS



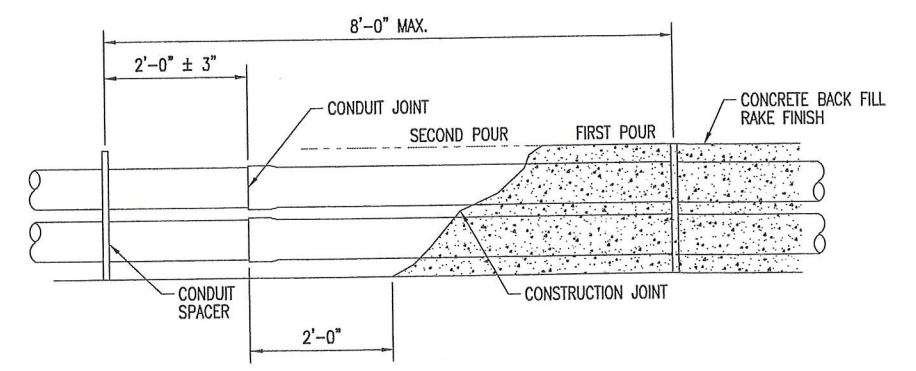
TYPICAL DISTRIBUTION CONDUITS w/ SECONDARY CONDUITS (C3)  
SCALE: NTS



COMBINED CONDUITS (C4)  
SCALE: NTS

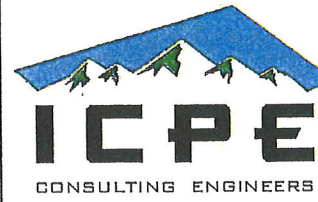


COMBINED CONDUITS w/ SECONDARY CONDUITS (C5)  
SCALE: NTS



TYPICAL CONDUIT SPACER ARRANGEMENT (C6)  
SCALE: NTS

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY. © ICPE 2024

Des By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd. By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	

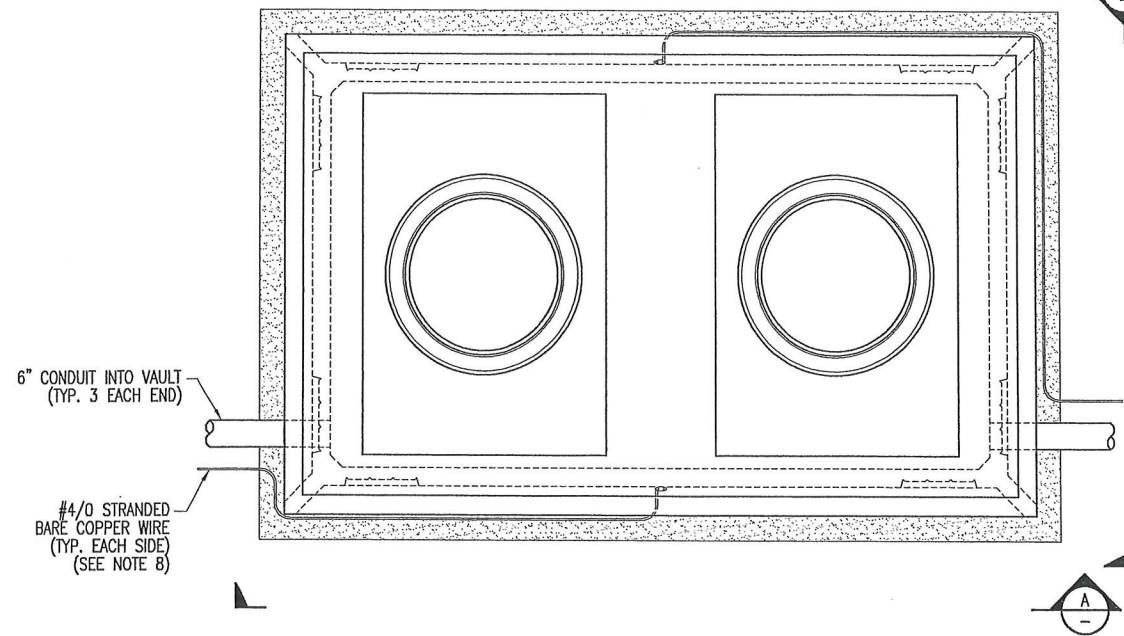
**NOT FOR CONSTRUCTION**

**JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT**

**115 kV UNDERGROUND TRANSMISSION LINE  
TYPICAL CONDUIT TRENCH SECTIONS**

SCALE: NTS      DRAWING No. **531-025-C101**      REVISION **A**

Project No. 531-025



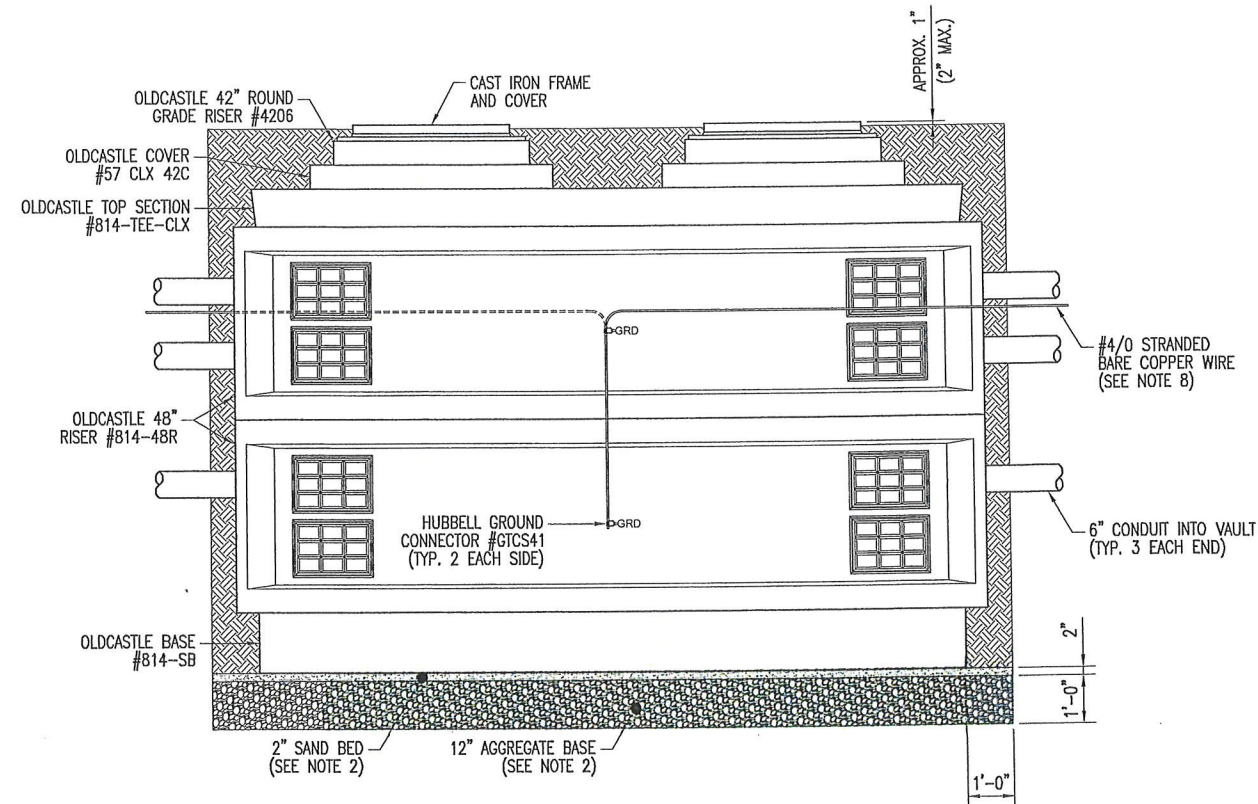
8'x14'x8' TRANSMISSION VAULT C10  
SCALE: NTS

**NOTES:**

- EXCAVATION FOR THE VAULT SHALL BE SUCH THAT THE TOP OF THE COVERS WITH ASSOCIATED GRADE RISERS, CAST IRON FRAMES, AND COVERS SHALL BE AT FINAL GRADE  $\pm 1/4"$ .
- THE EXCAVATION SHALL BE DEEP ENOUGH TO ALLOW FOR A 12-INCH LAYER OF AGGREGATE WITH A TWO-INCH BEDDING LAYER OF WASHED SAND PLACED ON TOP OF THE AGGREGATE. THE GRADATIONS FOR THE AGGREGATE SHALL BE AS SHOWN BELOW. 100% OF THE SAND SHALL BE ABLE TO PASS THROUGH A #4 SIEVE.

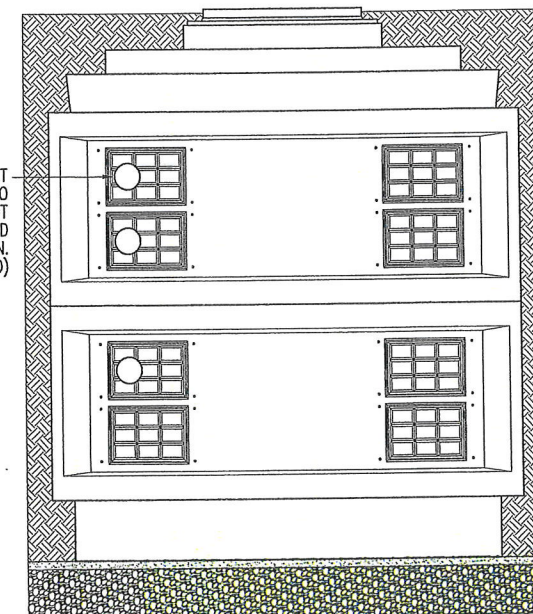
GRADATION FOR AGGREGATE BASE	
SIEVE SIZE (INCH)	PERCENT PASSING
2.5	100
1.25	50 TO 80
0.5	20 TO 40
#4	0 TO 10

- EXCAVATIONS SHALL BE PROTECTED, BRACED, AND SHORED TO PREVENT CAVING OF THE EXCAVATION IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS.
- ALL EXCAVATIONS SHALL BE PROTECTED FOR INADVERTENT PEDESTRIAN AND VEHICULAR TRAFFIC IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL SAFETY REGULATION.
- THE BOTTOM OF THE VAULT SHALL BE PLACED ON LEVEL COMPACTED MATERIAL. ALL FOUR CORNERS OF THE BOTTOM SHALL BE AT THE SAME ELEVATION  $\pm 1/4"$ .
- THE MATERIAL OBTAINED FROM VAULT EXCAVATION MAY BE USED FOR BACKFILLING MATERIAL. ALL ORGANIC MATERIAL, RUBBISH, DEBRIS, AND OTHER FOREIGN MATERIAL SHALL BE REMOVED. BROKEN CONCRETE AND BITUMINOUS PAVEMENT SHALL NOT BE USED FOR BACKFILL.
- SOIL BACKFILL SHALL BE MECHANICALLY COMPACTED. MATERIAL FOR MECHANICALLY COMPACTED BACKFILL SHALL BE PLACED IN HORIZONTAL LIFTS WHICH, PRIOR TO COMPACTION, SHALL NOT EXCEED A MAXIMUM LIFT DEPTH OF EIGHT INCHES. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF THE MAXIMUM DENSITY ESTABLISHED BY THE STANDARD PROCTOR DENSITY TEST ASTM D-698. GOOD COMPACTION OF THE SOIL AROUND THE VAULT IS NECESSARY FOR CREATING AN EFFECTIVELY GROUNDED VAULT SINCE THE VAULT GROUND IS ATTACHED TO THE REBAR IN THE VAULT'S CONCRETE WALLS. THERMAL BACK FILLS MAY BE USED IF LOCAL SOILS HAVE HIGH ELECTRICAL RESISTIVITY.
- A #4/0 BARE COPPER GROUND WIRE SHALL BE ATTACHED TO THE EXTERNAL VAULT GROUND LUGS ON BOTH SIDES OF THE VAULT AND SHALL RUN ALONG THE CONDUIT TRENCH BOTTOM FOR A DISTANCE OF 80 FEET IN EACH DIRECTION.



SIDE VIEW A  
SCALE: NTS

CORE DRILL END WALL TO INSERT 6" CONDUIT WITH END BELL INTO VAULT. PLACE NON-SHRINK GROUT AROUND CONDUIT PENETRATION AND SEAL AGAINST WATER PENETRATION. (TYP. 3 EACH END)



END VIEW B  
SCALE: NTS

NOT FOR CONSTRUCTION

JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT  
115 kV UNDERGROUND TRANSMISSION LINE  
TRANSMISSION VAULT NOTES AND DETAILS

Des By:	KAC	Date	04/24/24
Drawn By:	KAC	Date	04/24/24
Chk'd. By:	ML	Date	-
ENGR.	-	Date	-
APPD.	-	Date	-
APPD.	-	Date	-

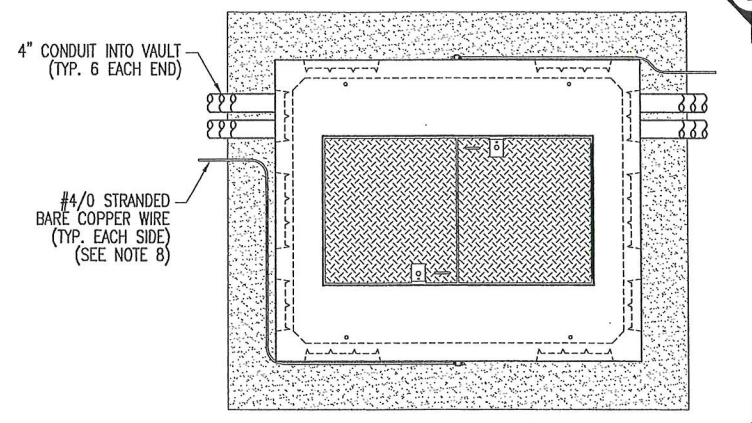
SCALE	NTS	DRAWING No.	531-025-C102	REVISION	A
Project No.	531-025				



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY. © ICPE 2024

CONFIDENTIAL

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



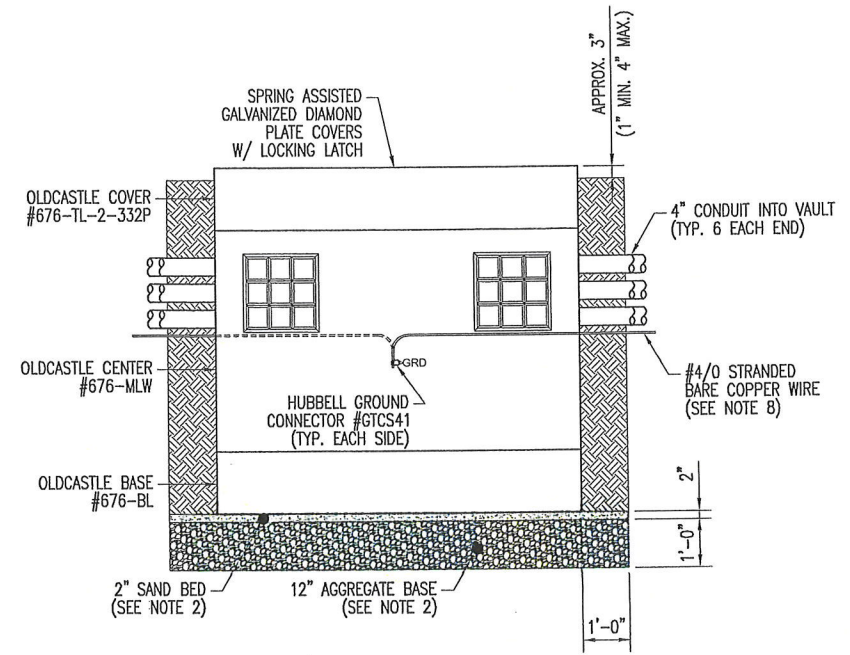
5'-6" x 7' x 6' DISTRIBUTION VAULT (C11)  
SCALE: NTS

**NOTES:**

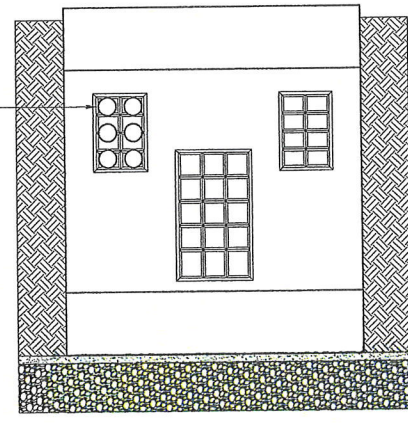
1. EXCAVATION FOR THE VAULT SHALL BE SUCH THAT THE TOP OF THE COVERS WITH ASSOCIATED GRADE RISERS, CAST IRON FRAMES, AND COVERS SHALL BE AT FINAL GRADE  $\pm \frac{1}{4}$ ".
2. THE EXCAVATION SHALL BE DEEP ENOUGH TO ALLOW FOR A 12-INCH LAYER OF AGGREGATE WITH A TWO-INCH BEDDING LAYER OF WASHED SAND PLACED ON TOP OF THE AGGREGATE. THE GRADATIONS FOR THE AGGREGATE SHALL BE AS SHOWN BELOW. 100% OF THE SAND SHALL BE ABLE TO PASS THROUGH A #4 SIEVE.

GRADATION FOR AGGREGATE BASE	
SIEVE SIZE (INCH)	PERCENT PASSING
2.5	100
1.25	50 TO 80
0.5	20 TO 40
#4	0 TO 10

3. EXCAVATIONS SHALL BE PROTECTED, BRACED, AND SHORED TO PREVENT CAVING OF THE EXCAVATION IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS.
4. ALL EXCAVATIONS SHALL BE PROTECTED FOR INADVERTENT PEDESTRIAN AND VEHICULAR TRAFFIC IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL SAFETY REGULATION.
5. THE BOTTOM OF THE VAULT SHALL BE PLACED ON LEVEL COMPACTED MATERIAL. ALL FOUR CORNERS OF THE BOTTOM SHALL BE AT THE SAME ELEVATION  $\pm \frac{1}{4}$ ".
6. THE MATERIAL OBTAINED FROM VAULT EXCAVATION MAY BE USED FOR BACKFILLING MATERIAL. ALL ORGANIC MATERIAL, RUBBISH, DEBRIS, AND OTHER FOREIGN MATERIAL SHALL BE REMOVED. BROKEN CONCRETE AND BITUMINOUS PAVEMENT SHALL NOT BE USED FOR BACKFILL.
7. SOIL BACKFILL SHALL BE MECHANICALLY COMPACTED. MATERIAL FOR MECHANICALLY COMPACTED BACKFILL SHALL BE PLACED IN HORIZONTAL LIFTS WHICH, PRIOR TO COMPACTION, SHALL NOT EXCEED A MAXIMUM LIFT DEPTH OF EIGHT INCHES. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF THE MAXIMUM DENSITY ESTABLISHED BY THE STANDARD PROCTOR DENSITY TEST ASTM D-698. GOOD COMPACTION OF THE SOIL AROUND THE VAULT IS NECESSARY FOR CREATING AN EFFECTIVELY GROUNDED VAULT SINCE THE VAULT GROUND IS ATTACHED TO THE REBAR IN THE VAULT'S CONCRETE WALLS. THERMAL BACK FILLS MAY BE USED IF LOCAL SOILS HAVE HIGH ELECTRICAL RESISTIVITY.
8. A #4/0 BARE COPPER GROUND WIRE SHALL BE ATTACHED TO THE EXTERNAL VAULT GROUND LUGS ON BOTH SIDES OF THE VAULT AND SHALL RUN ALONG THE CONDUIT TRENCH BOTTOM FOR A DISTANCE OF 80 FEET IN EACH DIRECTION.



SIDE VIEW (A)  
SCALE: NTS



END VIEW (B)  
SCALE: NTS

*NOT FOR CONSTRUCTION*

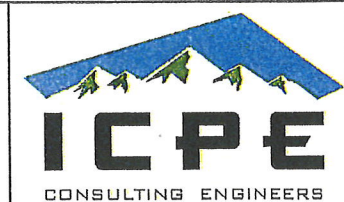
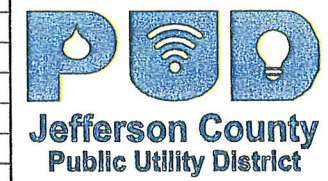
JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT  
115 kV UNDERGROUND TRANSMISSION LINE  
DISTRIBUTION VAULT NOTES AND DETAILS

Des By:	KAC	Date	04/24/24
Drawn By:	KAC	Date	04/24/24
Chk'd. By:	ML	Date	--
ENGR.	--	Date	--
APPD.	--	Date	--
APPD.	--	Date	--

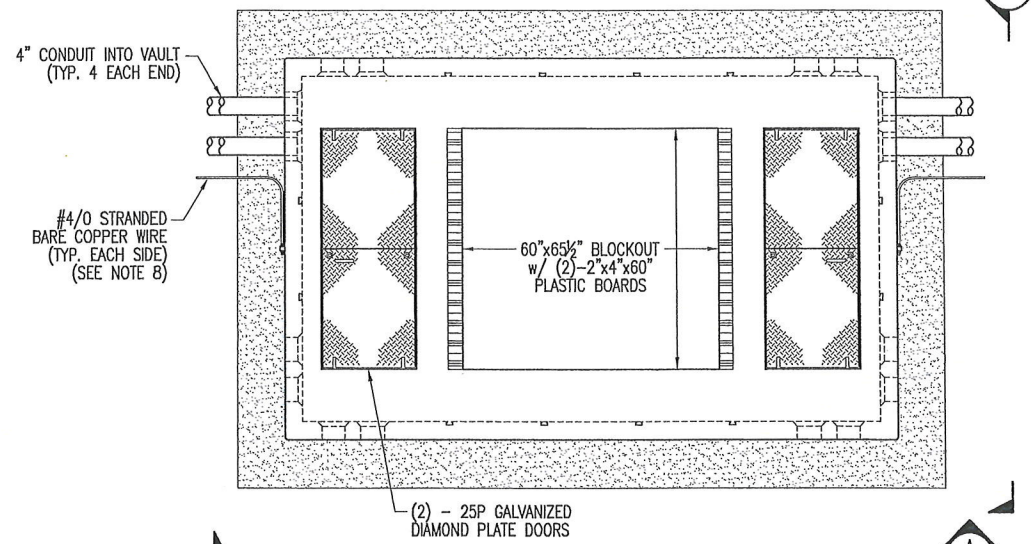
SCALE	NTS	DRAWING No.	531-025-C103	REVISION	A
Project No.	531-025				

THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

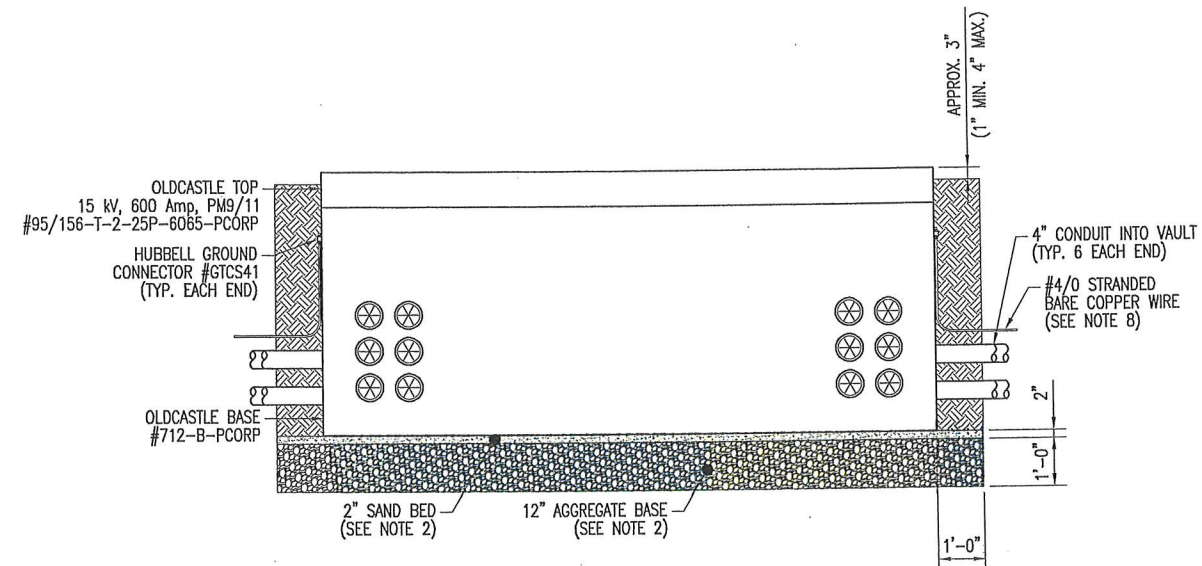
CONFIDENTIAL



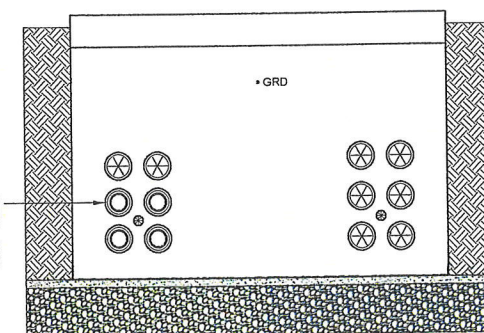
No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



5'-6" x 7' x 6' DISTRIBUTION VAULT  
SCALE: NTS



SIDE VIEW  
SCALE: NTS



END VIEW  
SCALE: NTS

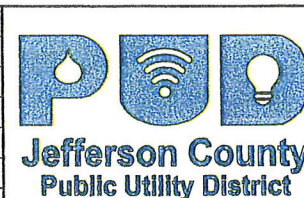
**NOTES:**

- EXCAVATION FOR THE VAULT SHALL BE SUCH THAT THE TOP OF THE COVERS WITH ASSOCIATED GRADE RISERS, CAST IRON FRAMES, AND COVERS SHALL BE AT FINAL GRADE  $\pm \frac{1}{4}$ ".
- THE EXCAVATION SHALL BE DEEP ENOUGH TO ALLOW FOR A 12-INCH LAYER OF AGGREGATE WITH A TWO-INCH BEDDING LAYER OF WASHED SAND PLACED ON TOP OF THE AGGREGATE. THE GRADATIONS FOR THE AGGREGATE SHALL BE AS SHOWN BELOW. 100% OF THE SAND SHALL BE ABLE TO PASS THROUGH A #4 SIEVE.

GRADATION FOR AGGREGATE BASE	
SIEVE SIZE (INCH)	PERCENT PASSING
2.5	100
1.25	50 TO 80
0.5	20 TO 40
#4	0 TO 10

- EXCAVATIONS SHALL BE PROTECTED, BRACED, AND SHORED TO PREVENT CAVING OF THE EXCAVATION IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS.
- ALL EXCAVATIONS SHALL BE PROTECTED FOR INADVERTENT PEDESTRIAN AND VEHICULAR TRAFFIC IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL SAFETY REGULATION.
- THE BOTTOM OF THE VAULT SHALL BE PLACED ON LEVEL COMPACTED MATERIAL. ALL FOUR CORNERS OF THE BOTTOM SHALL BE AT THE SAME ELEVATION  $\pm \frac{1}{4}$ ".
- THE MATERIAL OBTAINED FROM VAULT EXCAVATION MAY BE USED FOR BACKFILLING MATERIAL. ALL ORGANIC MATERIAL, RUBBISH, DEBRIS, AND OTHER FOREIGN MATERIAL SHALL BE REMOVED. BROKEN CONCRETE AND BITUMINOUS PAVEMENT SHALL NOT BE USED FOR BACKFILL.
- SOIL BACKFILL SHALL BE MECHANICALLY COMPACTED. MATERIAL FOR MECHANICALLY COMPACTED BACKFILL SHALL BE PLACED IN HORIZONTAL LIFTS WHICH, PRIOR TO COMPACTION, SHALL NOT EXCEED A MAXIMUM LIFT DEPTH OF EIGHT INCHES. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF THE MAXIMUM DENSITY ESTABLISHED BY THE STANDARD PROCTOR DENSITY TEST ASTM D-698. GOOD COMPACTION OF THE SOIL AROUND THE VAULT IS NECESSARY FOR CREATING AN EFFECTIVELY GROUND VAULT SINCE THE VAULT GROUND IS ATTACHED TO THE REBAR IN THE VAULT'S CONCRETE WALLS. THERMAL BACK FILLS MAY BE USED IF LOCAL SOILS HAVE HIGH ELECTRICAL RESISTIVITY.
- A #4/0 BARE COPPER GROUND WIRE SHALL BE ATTACHED TO THE EXTERNAL VAULT GROUND LUGS ON BOTH SIDES OF THE VAULT AND SHALL RUN ALONG THE CONDUIT TRENCH BOTTOM FOR A DISTANCE OF 80 FEET IN EACH DIRECTION.

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE, OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

Des By:	KAC	Date	04/24/24
Drawn By:	KAC	Date	04/24/24
Chk'd. By:	ML	Date	--
ENGR.	--	Date	--
APPD.	--	Date	--
APPD.	--	Date	--

**NOT FOR CONSTRUCTION**

**JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT**

**115 kV UNDERGROUND TRANSMISSION LINE  
SWITCH VAULT NOTES AND DETAILS**

SCALE	NTS	DRAWING No.	531-025-C104	REVISION	A
Project No.	531-025				

**CONCRETE NOTES:**

- CONCRETE MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO ACI 318-14, AND IBC-18. ALL "APPROVALS" ARE BY THE ENGINEER. DRAWING INFORMATION CONFLICTING WITH THESE NOTES CONTROL.
- MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - CONCRETE AGGREGATE - ASTM C33 (MAXIMUM SIZE 1-1/2 INCH)
  - REINFORCING STEEL (REBAR) - ASTM A615, GRADE 60
  - CEMENT - PORTLAND CEMENT, ASTM C150, TYPE V OR 1L (HS), TRICALCIUM ALUMINATE - 8% MAXIMUM
  - FLY ASH - ASTM C618, CLASS C OR F, 15% MAXIMUM AS CEMENT REPLACEMENT
  - COMPRESSIVE STRENGTH AT 28 DAYS (F<sub>c</sub>) - 4500 PSI MINIMUM
  - SLUMP - 5 INCHES MAXIMUM
  - WATER TO CEMENT RATIO - 0.45 MAXIMUM
  - AIR ENTRAINMENT - 5 ± 1.5 PERCENT
  - CONCRETE WEIGHT - NORMAL
  - CHEMICAL ADMIXTURES - ASTM C494
  - CALCIUM CHLORIDE - NONE ALLOWED
- PROVIDE MINIMUM REBAR COVER CONFORMING TO ACI 318, CHAPTER 20 AS FOLLOWS:
  - CONCRETE DEPOSITED DIRECTLY AGAINST EARTH - 3" OR AS NOTED
  - CONCRETE EXPOSED TO WEATHER OR GROUND - 2"
- REBAR SPLICES SHALL CONFORM TO ACI 318, CHAPTER 25 AS FOLLOWS:
 

#4 - 29"	#6 - 43"	#8 - 72"	#10 - 91"	#14 - 121"
#5 - 36"	#7 - 63"	#9 - 81"	#11 - 101"	

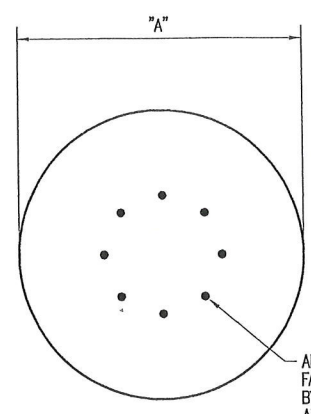
 REBAR SPACING - CLEAR DISTANCE GREATER THAN TWICE REBAR DIAMETER.
- COLD JOINT CONTACT SURFACES TO HAVE 1/4 INCH PROFILE AND LOCATIONS BE APPROVED.
- EXPOSED CONCRETE FINISH SHALL BE AS FOLLOWS:
  - EXPOSED - SMOOTH WITHOUT HONEYCOMBING OR FORM MARKS, LIGHT BROOM
- EXPOSED CORNERS SHALL HAVE A 3/4 INCH x 45 DEGREE CHAMFER.
- CONCRETE WORK IN HOT WEATHER (90+ DEGREES F) SHALL CONFORM TO ACI STANDARD 305.
- CONCRETE WORK IN COLD WEATHER (40- DEGREES F) SHALL CONFORM TO ACI STANDARD 306.
- EXPOSED (NON-FORMED) CONCRETE SURFACES SHALL HAVE SEVEN DAYS MOIST CURE OR A CURING COMPOUND APPLIED CONFORMING TO THE FOLLOWING:
  - ASTM C309 AND ASTM C1315
  - THIRTY PERCENT MINIMUM SOLIDS BY WEIGHT
- ALL CONSTRUCTION SHALL BE INSPECTED/TESTED PER QUALITY CONTROL INSPECTION REQUIREMENTS; CONSTRUCTION OBSERVATION/TESTING SHALL BE COORDINATED WITH HURRICANE CITY POWER.
- PLACEMENT TOLERANCES
  - ANCHOR BOLTS (RODS)
    - LOCATION; ±1/8 INCH AT TOP OF ROD AND CONCRETE SURFACE
    - PROJECTION; + 1/2 INCH, - 0 INCH
  - PIER EXCAVATION
    - LOCATION; WITHIN 1/24 OF SHAFT DIAMETER BUT NOT MORE THAN 3 INCHES
    - PLUMB; MAXIMUM 1.5% OF PIER LENGTH AND 12.5% OF SHAFT DIAMETER, BUT NOT MORE THAN 15 INCHES
  - CONCRETE TOP OF PIER ELEVATION ±1 INCH
- CONCRETE SHALL BE PLACED PER ACI REQUIREMENTS WITH ONLY THE TOP 5'-0 OF CONCRETE PIERS REQUIRED TO BE CONSOLIDATED.
- TREMIE PIPE SHALL BE USED FOR CONCRETE PLACEMENT UNDER WATER WITH THE WATER LEVEL AT CASINGS BALANCED. THE END OF TREMIE SHALL REMAIN BELOW THE CONCRETE SURFACE DURING PLACEMENT AND THE SIDES OF EXCAVATION RETAINED.
- CONCRETE WITH FALL GREATER THAN 5'-0 SHALL BE PLACED WITH A HOPPER OR TREMIE TO PREVENT CONCRETE FROM HITTING EXCAVATED HOLE SIDES OR REINFORCEMENT.
- CASING OR APPROVED LIQUID STABILIZING AGENT SHALL BE USED WHEN PIER HOLE SIDES DO NOT STAND DUE TO SLOUGHING OR BOULDER REMOVAL OR IF BOTTOM OF A HOLE CANNOT BE KEPT FREE OF LOOSE DEBRIS.
- CASINGS SHALL BE STEEL CONFORMING TO ASTM A252 (GRADE 2) OR CONFORMING TO ASTM A36 OR ASTM A444 AND BE 1/4 INCH THICK MINIMUM IN SAFETY CONDITIONS. CASINGS LEFT IN PLACE SHALL HAVE EXTERIOR VOIDS FILLED WITH CONCRETE OR 1/2 INCH MAXIMUM COMPACTED GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER.
- PIER DIAMETERS MAY BE INCREASED FOR PLACEMENT PURPOSES WITH THE SAME LENGTH AND USING THE SAME REBAR CONFIGURATION AS THE ORIGINAL PIER ON THE DRAWINGS.
- OBSERVATION OF THE DRILLED PIER EXCAVATION TO DETERMINE WHETHER SOIL CONDITIONS ARE SIMILAR TO WHAT WERE ENCOUNTERED IN THE BORING AND THAT THE DRILLED PIER IS CONSTRUCTED IN ACCORDANCE WITH GEOTECHNICAL ASPECTS OF THE CONSTRUCTION PLANS SHALL BE DONE BY GEOTECHNICAL FIRM.

**DESIGN CRITERIAL**

GEOTECHNICAL PARAMETERS:  
 GEOTECHNICAL REPORT BY: \_\_\_\_\_  
 DATED: \_\_\_\_\_  
 PROJ. #: \_\_\_\_\_

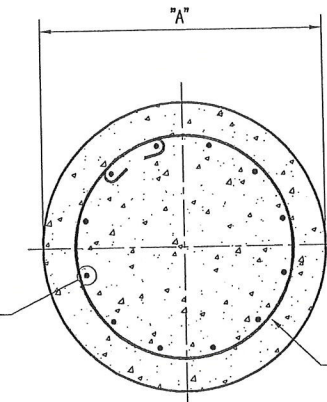
PIER SCHEDULE					
POLE NO.	A (FT)	B (FT)	H	J	COMMENTS
#1	-	-	-	-	
#2	-	-	-	-	

NOTE: ANCHOR BOLTS PROVIDED BY POLE FABRICATOR.

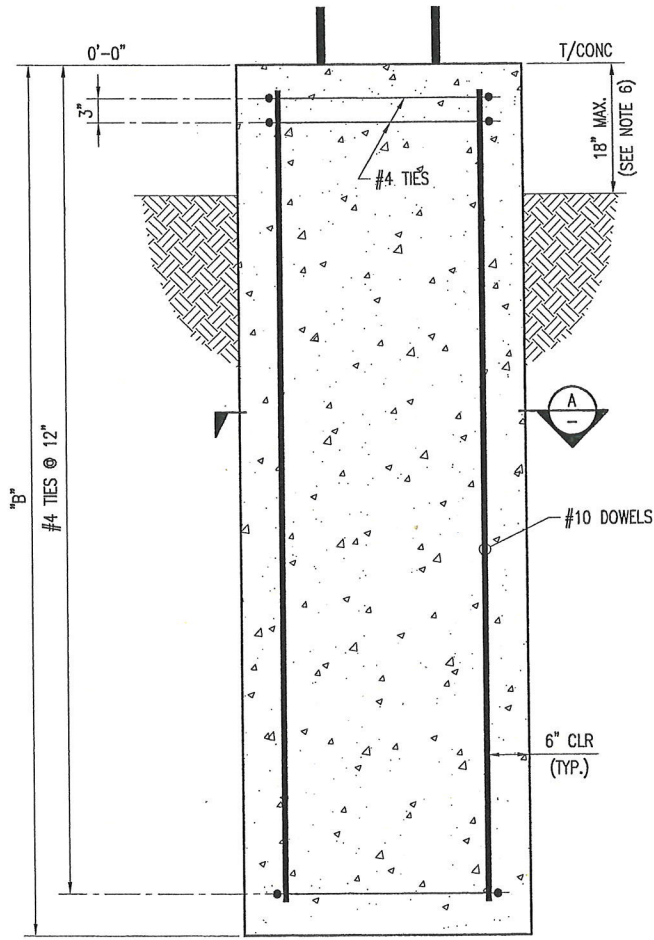


PLAN VIEW  
SCALE: NTS

ANCHOR BOLTS PROVIDED BY FABRICATOR AND INSTALLED BY CONTRACTOR. SEE ANCHOR BOLT ORIENTATION.



SECTION A  
SCALE: NTS

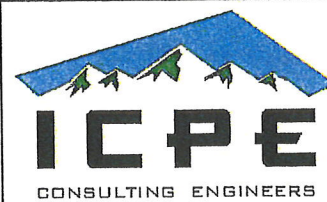


ELEVATION  
SCALE: NTS

HOLD FOR GEOTECH & POLE VENDOR INFORMATION

QUALITY CONTROL INSPECTION REQUIREMENTS		
ACTIVITY	IBC REQUIREMENTS	OTHER REQUIREMENTS / COMMENTS
GENERAL	SECTION 1704.1 & 1705.1	
STEEL CONSTRUCTION ELEMENTS	SECTION 1705.2 TABLE 1705.2.2	AISC
WELDING	SECTION 1705.2	AISC
CONCRETE CONSTRUCTION	SECTION 1705.3 TABLE 1705.3	ACI / MINIMUM FOUR (4) 6"x12" TEST CYLINDERS PER STRUCTURE
MASONRY	SECTION 1705.4	ACI 530, LEVEL 1
SOILS (FILL >12" DEEP TOTAL)	SECTION 1705.6 TABLE 1705.6	
POST INSTALLED ANCHORS		ACI 355.2 AND MANUFACTURER'S RECOMMENDATIONS
SEISMIC RESISTIVE ELEMENTS	SECTIONS 1705.11 & 1705.12	PROJECT SEISMIC QUALITY ASSURANCE PLAN
PILE FOUNDATIONS	SECTIONS 1705.7 TABLE 1705.7	
PIER FOUNDATIONS	SECTION 1705.8 TABLE 1705.8	

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LITIGATION.  
 © ICPE 2024

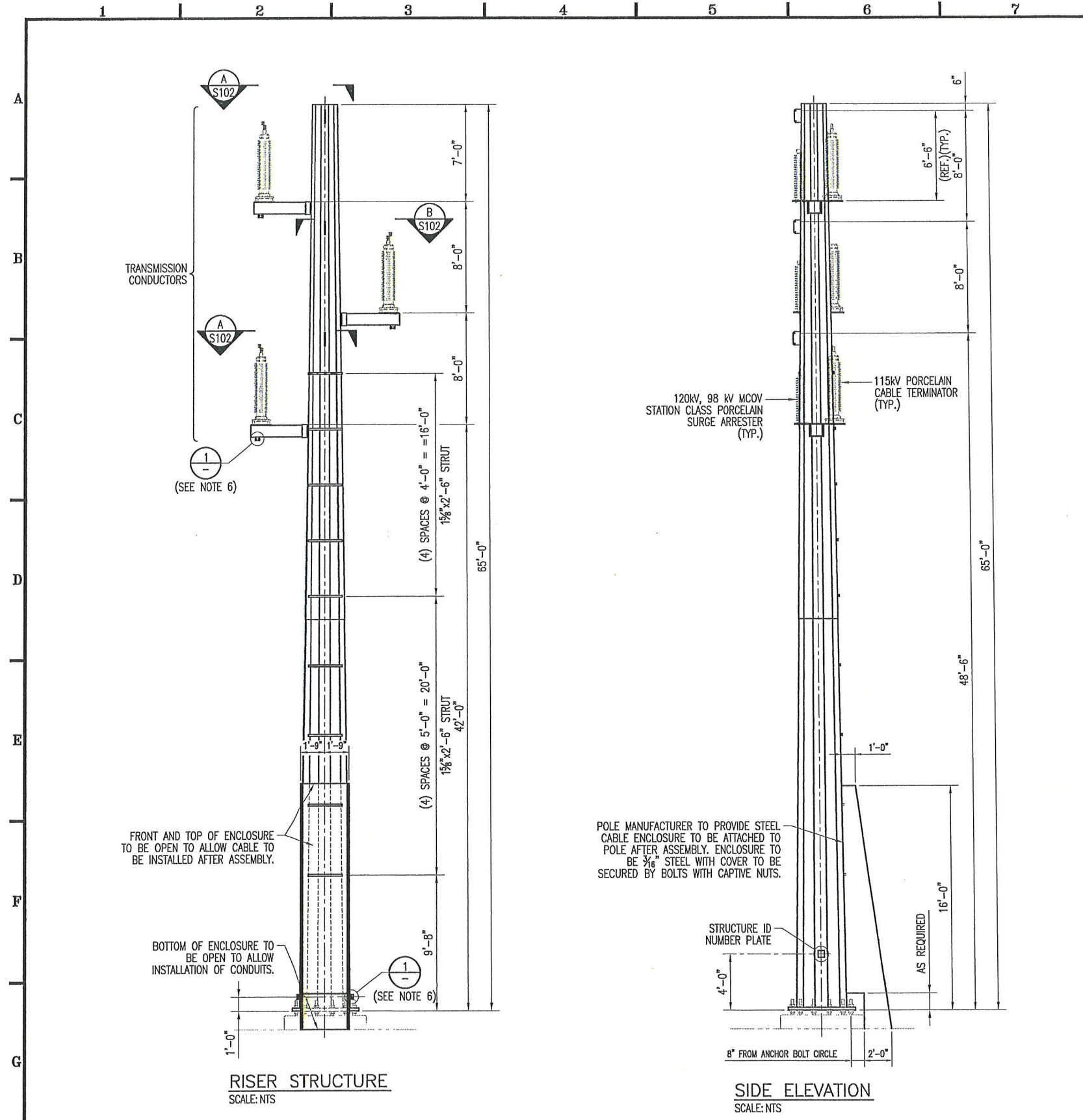
Des By:	KAC	Date	05/08/24
Drawn By:	KAC	Date	05/08/24
Chk'd. By:	ML	Date	-
ENGR.	ML	Date	-
APPD.		Date	
APPD.		Date	

**NOT FOR CONSTRUCTION**

JEFFERSON COUNTY  
 PUBLIC UTILITY DISTRICT  
 115 kV UNDERGROUND TRANSMISSION LINE  
 DRILLED PIER NOTES & DETAILS

SCALE: NTS  
 DRAWING No. 531-025-C201  
 Project No. 531-025  
 REVISION A





### STRUCTURE POINT LOADS

1: NESC MEDIUM				
DESCRIPTION	POSITION	TRANSVERSE	LONGITUDINAL	VERTICAL
TRANSMISSION CONDUCTORS	1, 2, 3	0.26	9.90	0.52
TERMINATOR/ARRESTER ARM	4, 5, 6	-	-	-

2: HIGH WIND				
DESCRIPTION	POSITION	TRANSVERSE	LONGITUDINAL	VERTICAL
TRANSMISSION CONDUCTORS	1, 2, 3	0.33	5.77	0.49
TERMINATOR/ARRESTER ARM	4, 5, 6	-	-	-

3: 60° CAMBER				
DESCRIPTION	POSITION	TRANSVERSE	LONGITUDINAL	VERTICAL
TRANSMISSION CONDUCTORS	1, 2, 3	0.00	3.11	0.21
TERMINATOR/ARRESTER ARM	4, 5, 6	-	-	-

### DESIGN APPLICATION

WIRE DATA

SHIELD WIRE: 3/8" EHS 7 STRAND STEEL  
TRANSMISSION CONDUCTOR: 795 ACSR "BITTERN"

#### MECHANICAL LOADING CRITERIA

CASE 1: NESC MEDIUM (RULE 250B):  
4 psf WIND @ 15F, 1/4" ICE ON WIRES, CONDUCTORS AND STRUCTURE.  
OLF: VERTICAL 1.5, WIND 2.5, TENSION 1.65.

CASE 2: NESC HIGH WIND - 90 MPH (RULE 250C):  
21.4 psf @ 60F ON WIRES AND CONDUCTORS,  
21.2 psf @ 60F ON STRUCTURE,  
NO ICE ON WIRES, CONDUCTORS AND STRUCTURE.  
OLF: 1.1 - ALL LOADS.

CASE 3: 60F CAMBER (FINAL TENSION):  
NO WIND @ 60F, NO ICE ON WIRES, CONDUCTORS AND STRUCTURE.  
OLF: 1.0 - ALL LOADS.

#### DESIGN TENSIONS (lbs.)

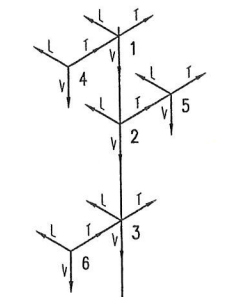
WIRE	NESC MEDIUM	HIGH WIND	60F CAMBER
	AHEAD	AHEAD	AHEAD
TRANSMISSION CONDUCTOR	6000	845	440

#### SPAN AND ANGLE DATA

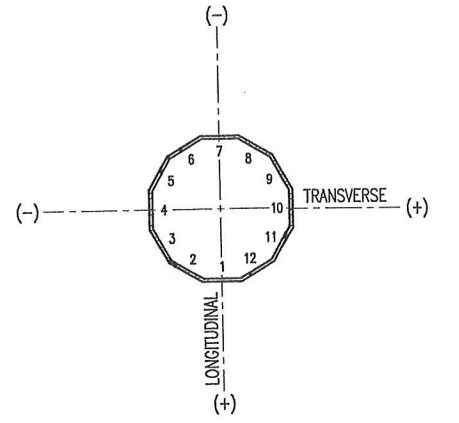
DESCRIPTION	NESC MEDIUM	HIGH WIND	60F CAMBER
	AHEAD	AHEAD	AHEAD
HORIZONTAL SPAN	150'	150'	150'
VERTICAL SPAN	165'	175'	150'
ANGLE	0°	0°	0°

#### GENERAL NOTES

- THE LOADS IN THE LOADING TABLE ARE ULTIMATE LOADS AND INCLUDE ALL OVERLOAD FACTORS. ALL LOADS IN KIPS EXCEPT WIND "W" IN psf.
- THE VERTICAL LOADS (V) INCLUDE ONLY DEAD WEIGHT OF THE WIRE AND WEIGHT OF THE INSULATORS. THE DEAD WEIGHT OF THE STRUCTURE SHALL BE CALCULATED BY THE POLE MANUFACTURER AND USED IN THE DESIGN. THE OVERLOAD FACTOR APPLIED TO THE DEAD WEIGHT SHALL BE AS LISTED FOR EACH CASE.
- FOR STRUCTURAL DESIGN, THE LONGITUDINAL, TRANSVERSE AND VERTICAL LOADS SHALL BE CONSIDERED TO ACT SIMULTANEOUSLY WITH THE WIND AND THE DEAD WEIGHT OF THE STRUCTURE.
- APPLY STRUCTURE WIND "W" IN THE DIRECTION WHICH PRODUCES THE MAXIMUM STRESS.
- STRUCTURE SHALL BE DESIGNED TO BE SELF SUPPORTING, GUYS ARE NOT PERMITTED.
- ATTACH GROUNDING PLATES (DETAIL 1 ON DWG. S102) 6" FROM END OF EACH ARM AND 1'-0" ABOVE BASE PLATE ON FLATS #4 AND #10.
- CLIMBING LADDER CLIPS (DETAIL 2 ON DWG. S102) TO BE INSTALLED ON FLAT #8. WORKING LADDER CLIPS TO BE INSTALLED BELOW EACH TRANSMISSION ATTACHMENT AND BELOW EACH ARM.
- FINISH SHALL BE HOT DIP GALVANIZING PER ASTM A123, A143, A153, A384 AND A385.

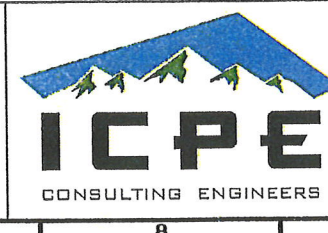
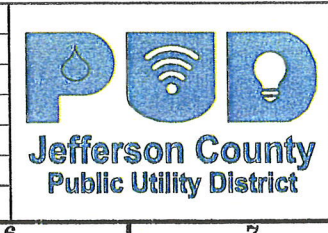


**LOADING DIAGRAM**  
SCALE: NTS



**ORIENTATION OF AXES**  
SCALE: NTS

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSOCIATES. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

Des By:	KAC	Date	05/08/24
Drawn By:	KAC	Date	05/08/24
Chk'd. By:	ML	Date	
ENGR.	ML	Date	
APPD.		Date	
APPD.		Date	

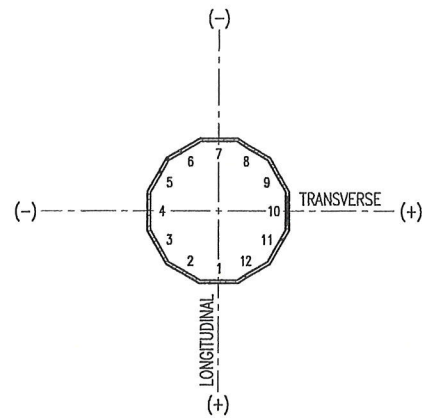
**NOT FOR CONSTRUCTION**

**JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT**

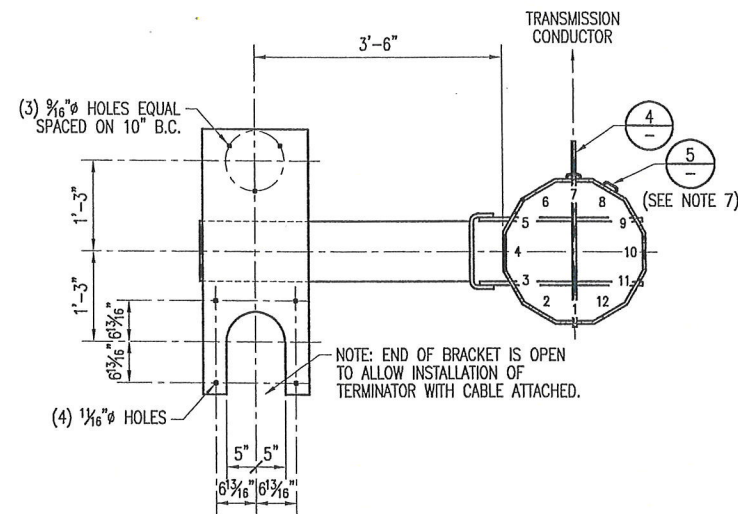
**115 kV UNDERGROUND TRANSMISSION LINE  
RISER POLE DESIGN DATA**

SCALE: NTS      DRAWING No. **531-025-S101**      REVISION **A**

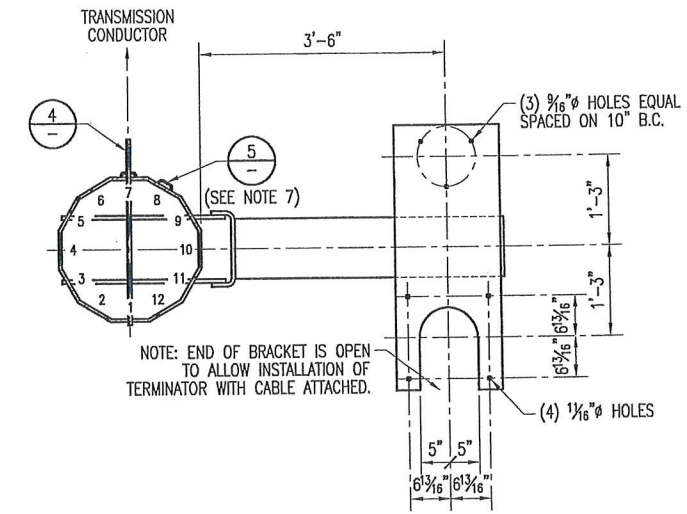
Project No. 531-025



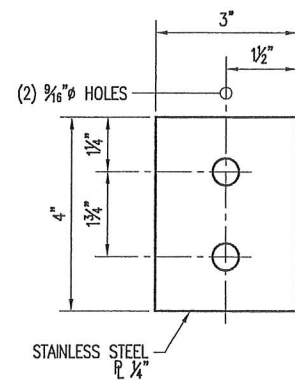
ORIENTATION OF AXES  
SCALE: NTS



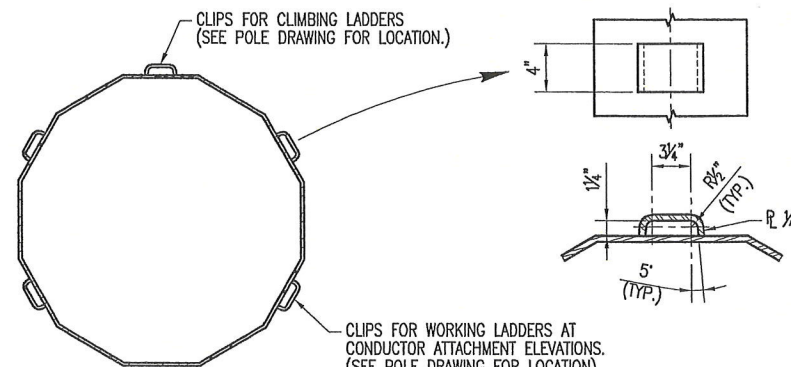
DETAIL A  
SCALE: NTS  
TRANSMISSION ORIENTATION



DETAIL B  
SCALE: NTS  
TRANSMISSION ORIENTATION

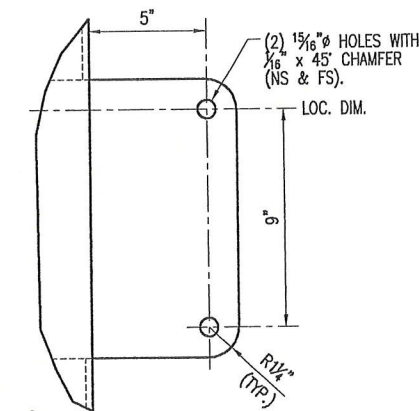


DETAIL 1  
SCALE: NTS  
GROUND TAB



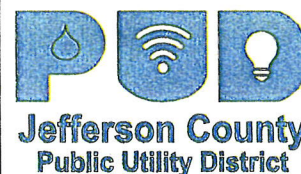
NOTES:  
1. CLIPS TO BE SPACED AS REQUIRED FOR LADDERS SUPPLIED.  
2. LADDER CLIP DETAIL IS FOR MCGREGOR LADDERS ONLY.

DETAIL 5  
SCALE: NTS  
LADDER BRACKET



DETAIL 4  
SCALE: NTS  
TRANSMISSION ATTACHMENT

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	ML	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
© ICPE 2024

Des By:	KAC	Date	05/08/24
Drawn By:	KAC	Date	05/08/24
Chk'd. By:	ML	Date	
ENGR.	ML	Date	
APPD.		Date	
APPD.		Date	

**NOT FOR CONSTRUCTION**

**JEFFERSON COUNTY  
PUBLIC UTILITY DISTRICT**

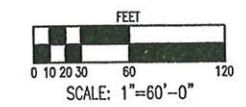
**115 kV UNDERGROUND TRANSMISSION LINE  
RISER POLE SECTIONS & DETAILS**

SCALE	NTS	DRAWING No.	531-025-S102	REVISION	A
Project No.	531-025				



**BOREHOLE 1**  
 #1  
 409780.105 N  
 1164099.57 E  
 LAT. 48°06'24.64"N  
 LONG. 122°46'59.40"W

**BOREHOLE 2**  
 #2  
 410335.055 N  
 1165755.783 E  
 LAT. 48°06'30.53"N  
 LONG. 122°46'35.21"W



*NOT FOR CONSTRUCTION*

**JEFFERSON COUNTY  
 PUBLIC UTILITY DISTRICT**  
 115 kV UNDERGROUND TRANSMISSION LINE  
 BORING LOCATIONS

SCALE 1"=60'  
 Project No. 531-025  
 DRAWING No. **531-025-B100**  
 REVISION **A**

No.	DATE	BY	APP	REVISION	REFERENCE DRAWING	NUMBER
A	05/10/24	KAC	LAB	ISSUED FOR APPROVAL		



THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON, AND IN CONJUNCTION WITH, THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY.  
 ©ICPE 2024

Des By:	KAC	Date	06/08/23
Drawn By:	KAC	Date	06/08/23
Chk'd. By:	LAB	Date	06/08/23
ENGR.	LAB	Date	06/06/23
APPD.		Date	
APPD.		Date	

CONFIDENTIAL