



# **Solid Waste Division**

## **Silverdale Recycling & Garbage Facility**

**Facility Master Plan  
October 2018**



# **Kitsap County**

## **Department of Public Works**

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### ***Future Facility Goals & Objectives***

Increase capacity

Improve customer service

Redirect traffic flow

Facility flexibility

Site criteria/constraints

Increase customer and worker safety

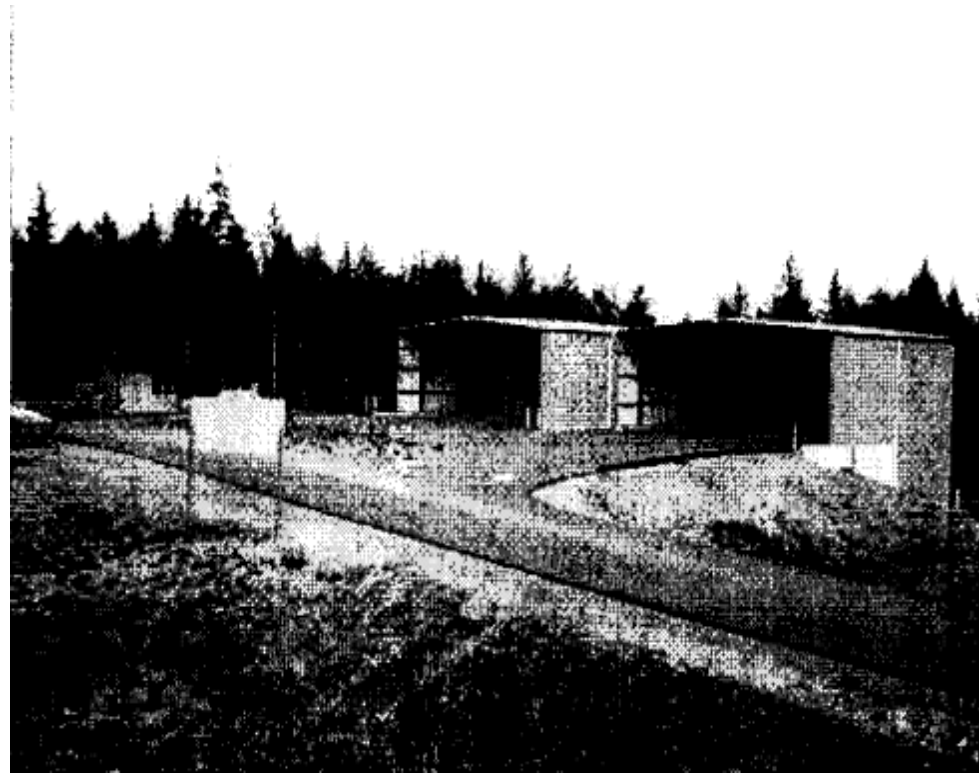
Comply with regulatory requirements

Increase waste diversion

Protect human health and environment

# Silverdale RAGF Property History

- County Silverdale “Transfer Station”
- County Roads Property
- “Kitsap County Sanitary Landfill, Inc.”
  - No landfill operations onsite
- Kitsap Humane Society
- Sand & Gravel Operations



# Silverdale Recycle & Garbage Facility



**Comments** Parcel No: 192501-1-021-2008 TaxPayer: KITSAP COUNTY PUBLIC WORKS SiteAddress: 5821 DICKEY RD NW  
2017 Imagery

\*\* This map is not a substitute for field survey \*\*

Map Scale: 1 inch = 400 feet

Kitsap Co. Parcel Search Application



Printed December 4, 2018

N 87°54'52" W 1258.71'

LOT 1  
551,642 S.F.  
12.66 AC.

TRANSMISSION  
LINE EASEMENT  
AFN 568340

250.0'  
62.5' 187.5'

CONC. PAD FOR  
PROPANE TANK

N 87°45'52" W  
168.92'

ASPHALT

GENERATOR ON  
CONC. PAD

LOT 2  
293,981 S.F.  
6.75 AC.

KITSAP HUMANE  
SOCIETY (WOOD  
FRAME BUILDING)



S 02°00'09" W 1326.45'  
1117.48'  
752.46'  
365.00'

ASPHALT  
S 72°45'56" W 585.01'

LOT 3  
355,430 S.F.  
8.16 AC.

S 02°14'08" W  
120.58'

S 87°45'52" E  
250.00'

S 87°45'52" E  
80.01'

CHAIN  
LINK  
FENCE

ASPHALT  
GRAVEL  
METAL BUILDINGS  
CONC.  
CONC.

N 01°55'03" E 400.00'  
182.65'  
N 01°55'03" E 30.00'  
N 01°55'03" E 360.00'

ANNEX  
(WOOD FRAME  
BUILDING)

TRAINING CENTER  
(WOOD FRAME  
BUILDING)

DICKEY ROAD NW

N 87°45'52" W  
120.00'

EXCEPTION  
CONVEYED TO  
SILVERDALE WATER  
DISTRICT NO. 16,  
PER AFN 7906270159

S 69°48'21" E 293.64'  
186.00'

60' INGRESS, EGRESS AND  
UTILITIES EASEMENT PER  
THIS LARGE LOT SUBDIVISION

LOT 4  
393,147 S.F.  
9.03 AC.

N 01°55'03" E  
200.00'

S 89°12'56" E  
211.08'

N 01°55'03" E  
200.00'

1310.69'  
N 87°45'52" W



SCALE: 1"=100'

DICKEY ROAD NW

550.00'

360.00'

S 87°45'52" E 240.00'

# Existing Site & Evolution Over Time

	2014	2017	2047
MSW (Tons)	2,700	4,000	5,400
Recycling (Tons)	960	1,130	1,820
Customers	58,000	78,000	106,000

2014 - 2017 MSW growth was ~50%

2014 - 2017 Recycling growth was ~17%

Population growth projection

-- Based on 3,275 additional people per year

# Current Silverdale RAGF Layout

Sand and Gravel Operation

Humane Society

Limited HHW and White Goods Area

Attendant Booth

Refuse Area

Recycling Area

Site Entrance









# Facility Operation

- Refuse Haulers
  - Transfer to OVTS
- Recycling Haulers
- Limited HHW Haulers



# Current Challenges

Capacity

Traffic circulation and safety

Functional efficiency

Age and condition of facility features

Upgrade facilities to current standards

Surface water management



# **Change & Growth**

In a growing, more suburban environment, with ever changing and more demanding materials collection needs, how do we keep up at rural sites?

# Silverdale RAGF Facility Master Plan

Capacity, 30-year planning horizon

Circulation and access

Hauling/maneuvering/parking

Queuing and traffic

Layout and orientation

Utilities

Landscaping

Customer facilities

# Current Silverdale RAGF Layout

Sand and Gravel Operation

Humane Society

Limited HHW and White Goods Area

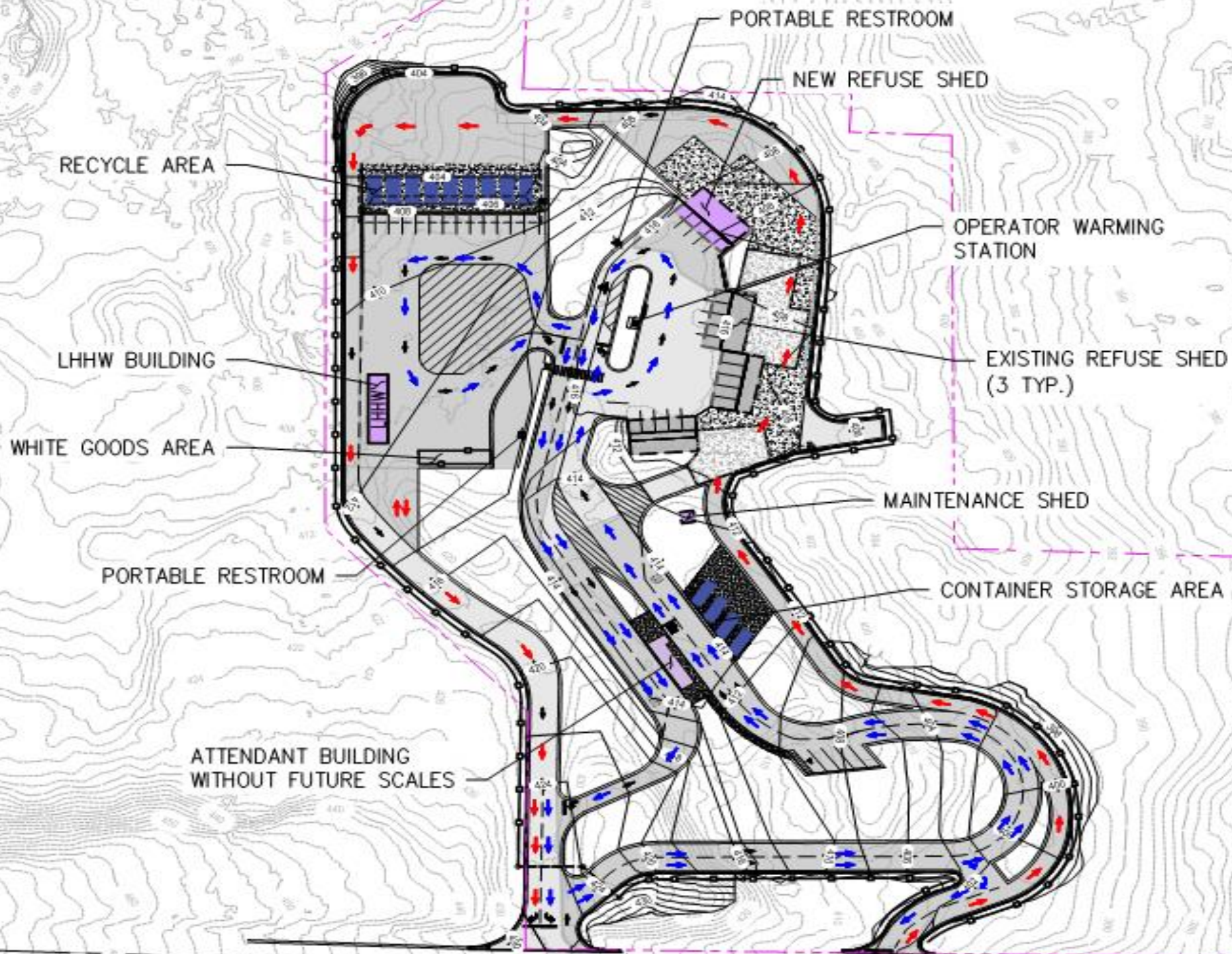
Attendant Booth

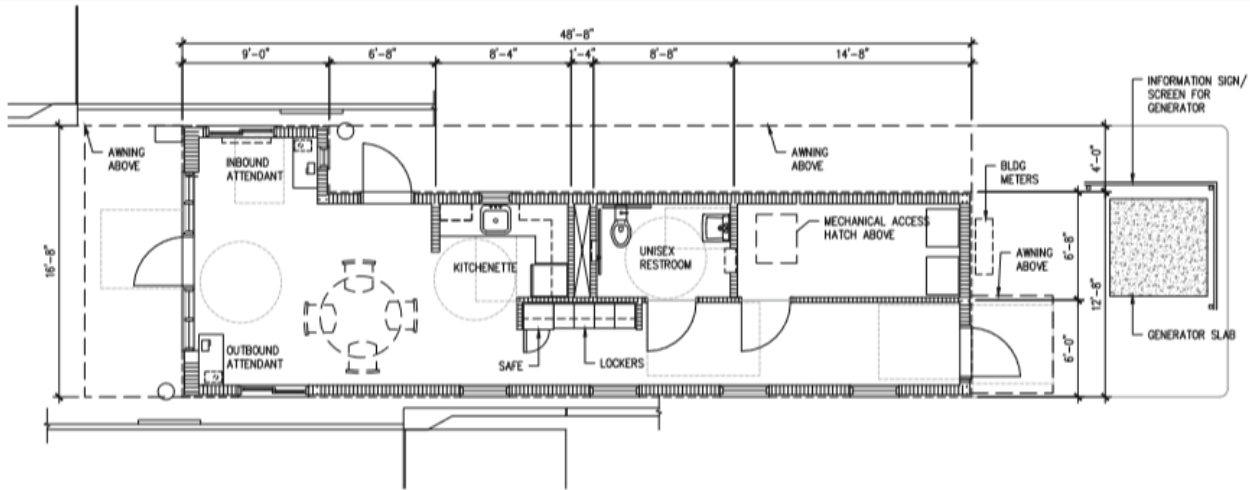
Refuse Area

Recycling Area

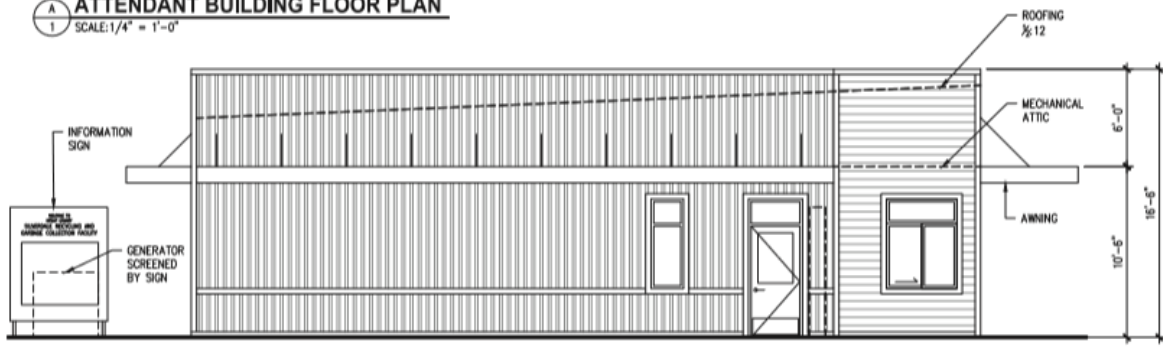
Site Entrance



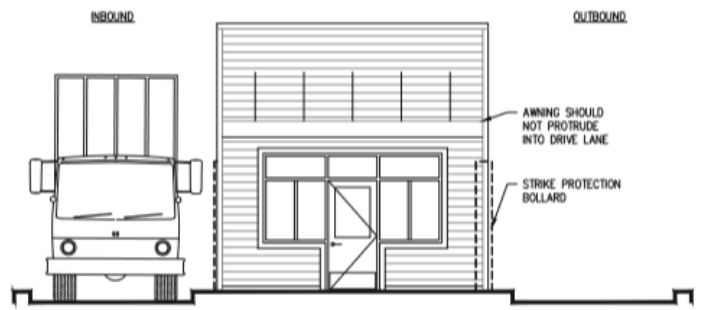




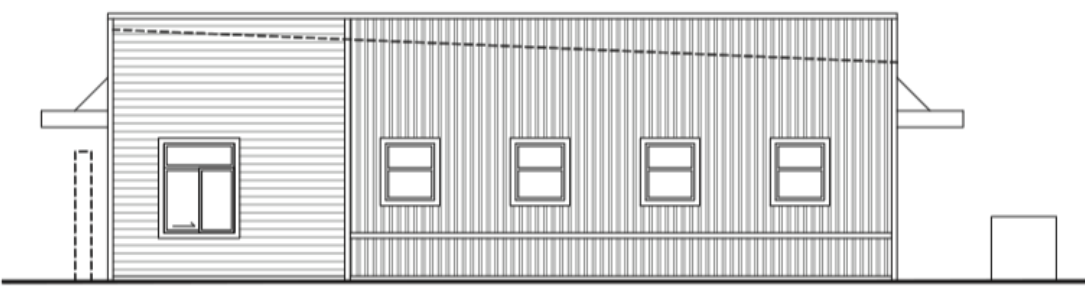
**A ATTENDANT BUILDING FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



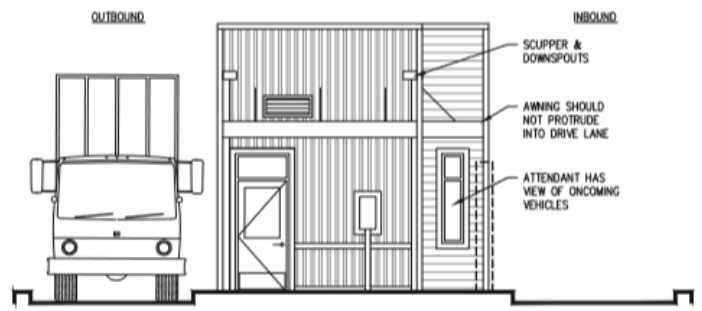
**B INBOUND TRANSACTION WINDOW**  
SCALE: 1/4" = 1'-0"



**C EXIT ELEVATION**  
SCALE: 1/4" = 1'-0"



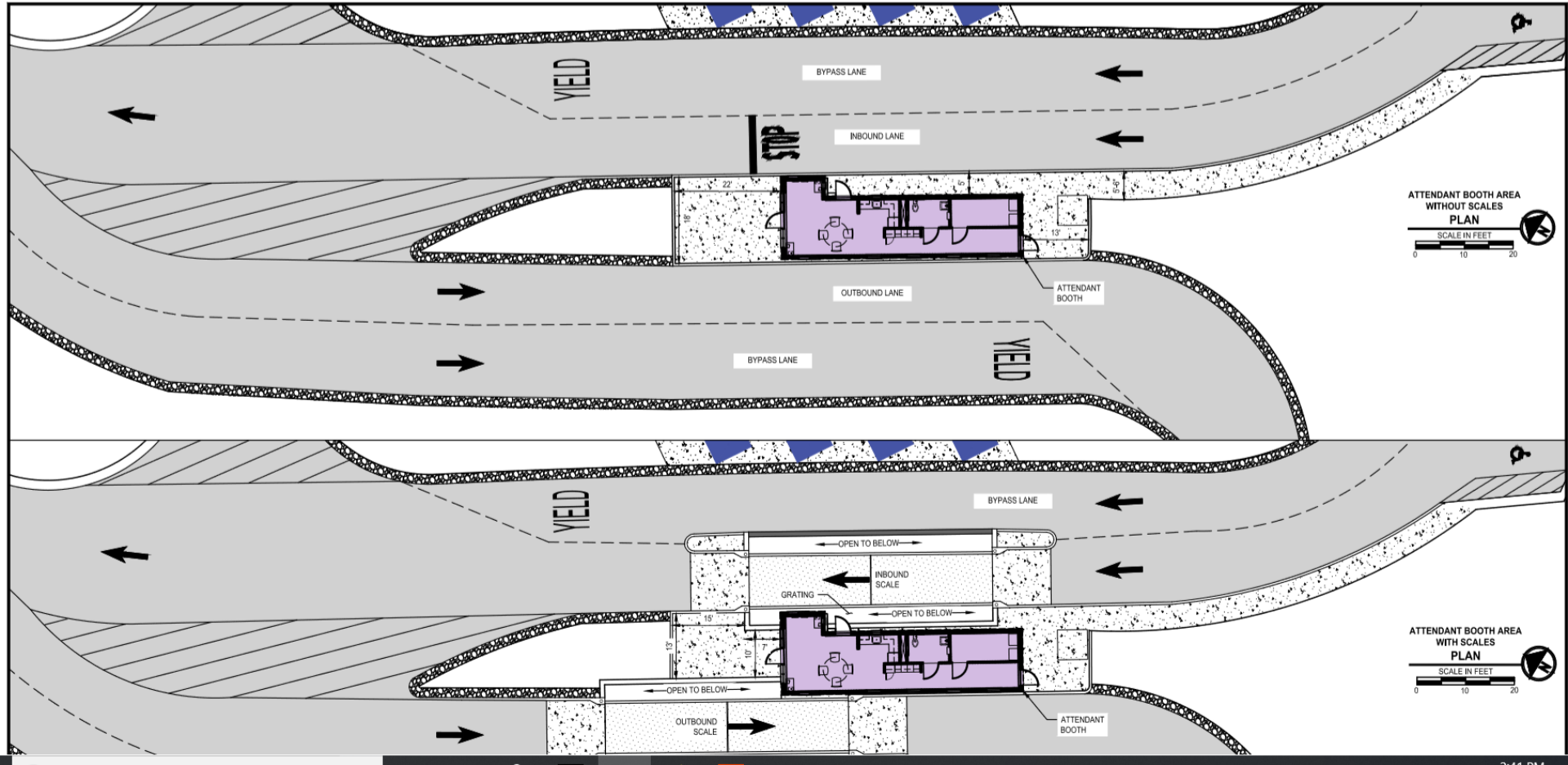
**D OUTBOUND TRANSACTION WINDOW**  
SCALE: 1/4" = 1'-0"



**E ENTRY ELEVATION**  
SCALE: 1/4" = 1'-0"

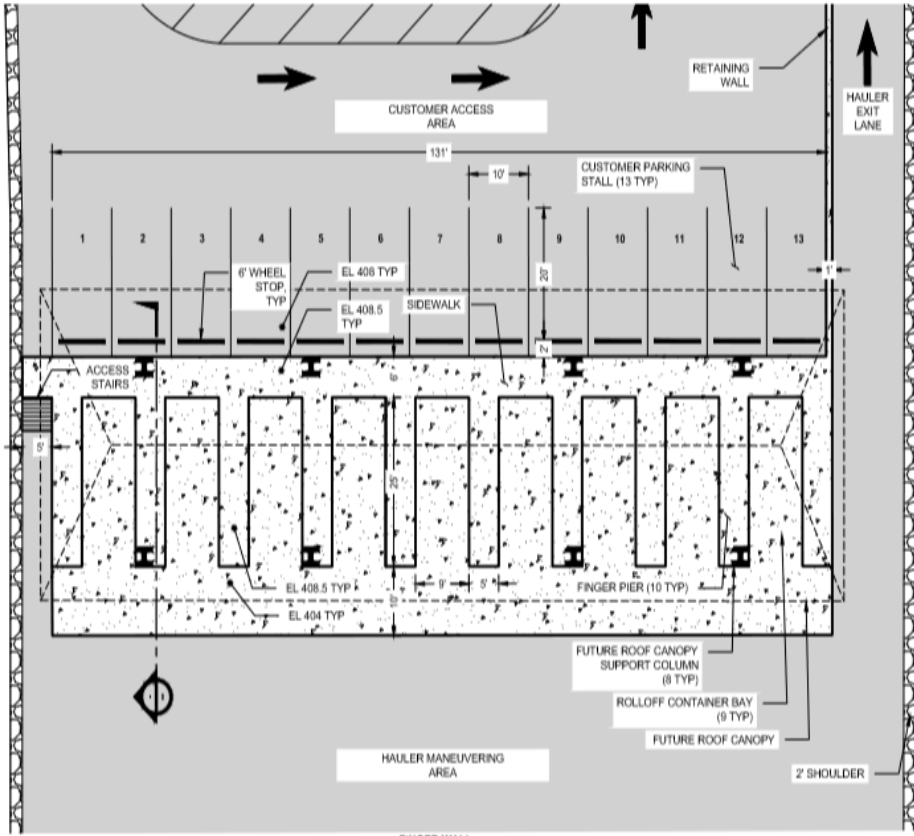




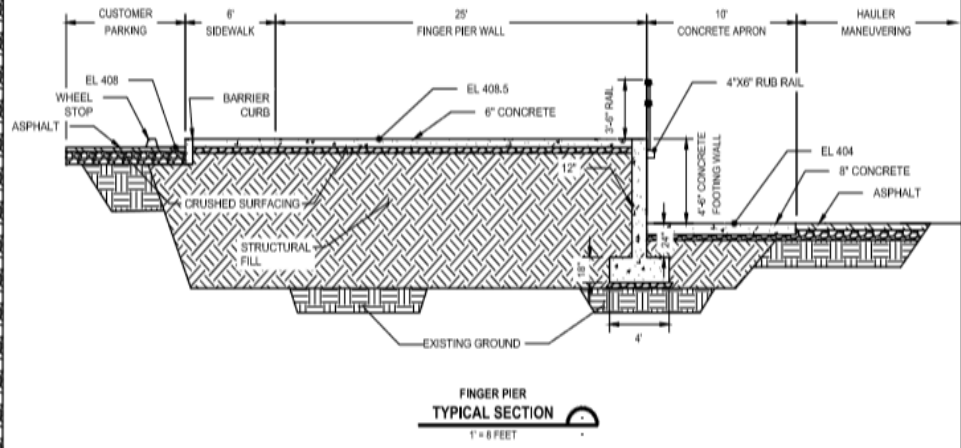


ATTENDANT BOOTH AREA  
WITHOUT SCALES  
PLAN  
SCALE IN FEET

ATTENDANT BOOTH AREA  
WITH SCALES  
PLAN  
SCALE IN FEET



**FINGER WALL PLAN**  
 SCALE IN FEET  
 0 10 20



**FINGER PIER TYPICAL SECTION**  
 1" = 6 FEET

# Recycling “Finger Wall”

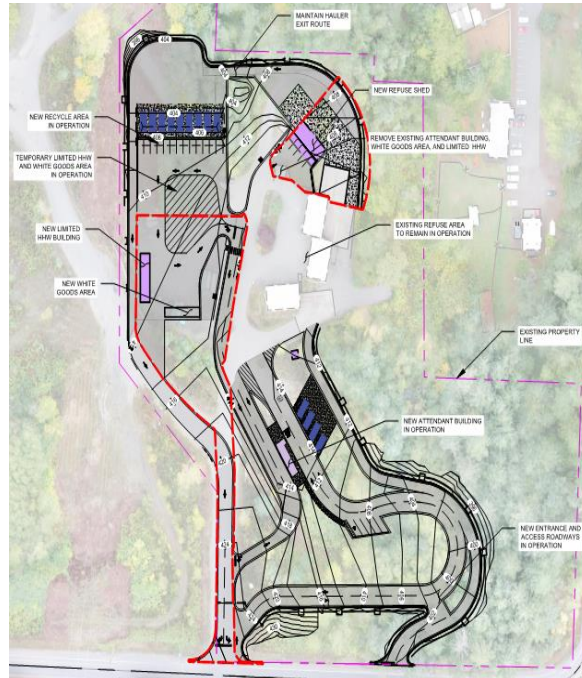


# Construction Phasing

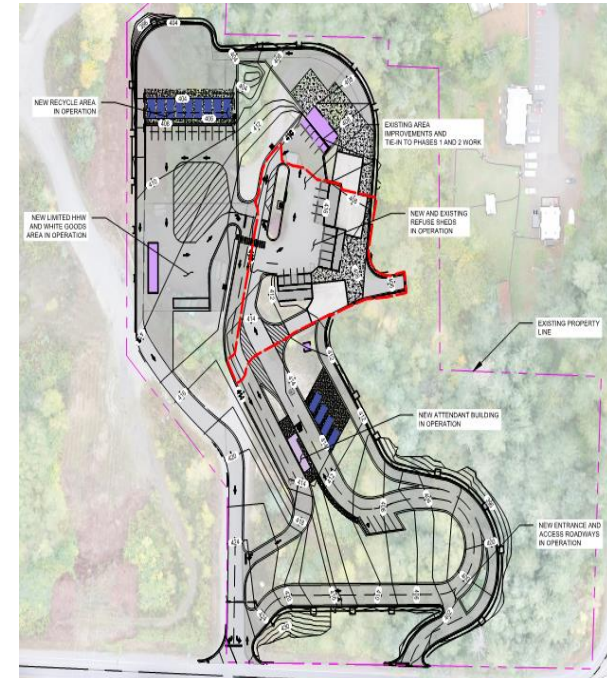
## Phase 1



## Phase 2



## Phase 3



# Estimated Project Cost & Schedule

**Design & Construction Management \$ 584,881**

**Construction \$3,899,207**

**Total Estimated Project Costs \$4,484,088**

**Projected Timeframe**

**Design 2019**

**Construction 2020**

# Recommendations

## Proceed with Preferred Layout

- Separate hauler entrance
  - New attendants booth
- Build out for future scales
  - Recycling finger wall
- Build out for future canopy

# Next Steps

- Public Discussion and Input
  - Solid Waste Advisory Committee (SWAC)
  - Public Meeting in Silverdale/Central Kitsap area
  - Receive and evaluate public input
- Present recommended alternative to Board of County Commissioners
- Move forward to design if directed by Board