### Port of Alaska – Terminal 1



#### Terminal 1 – POL Facility

Option 1 Marine Loading Arm

Option 2 Mobile Hose Tower

Option 3 Hybrid Mobile Hose Tower

Option 4 Hose Reel



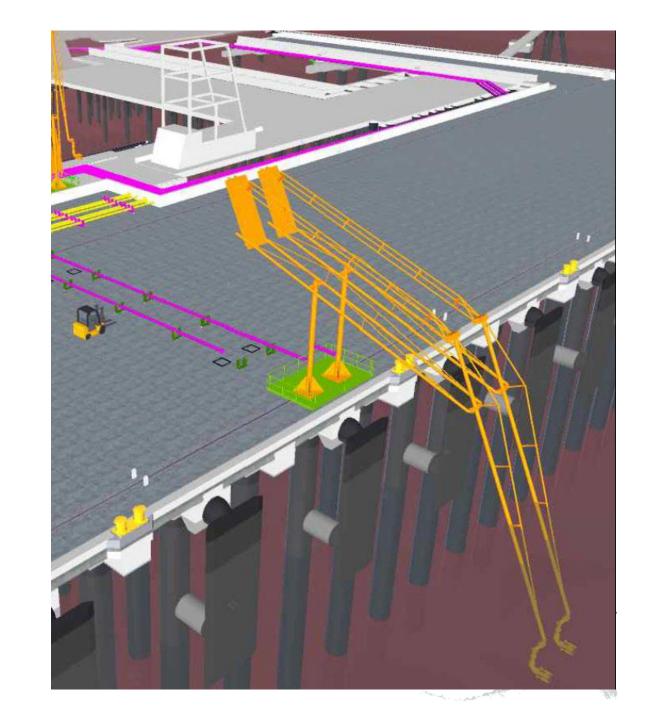


# Option 1 Marine Loading Arm

Complex System

High level of service and control

\$7.5 million



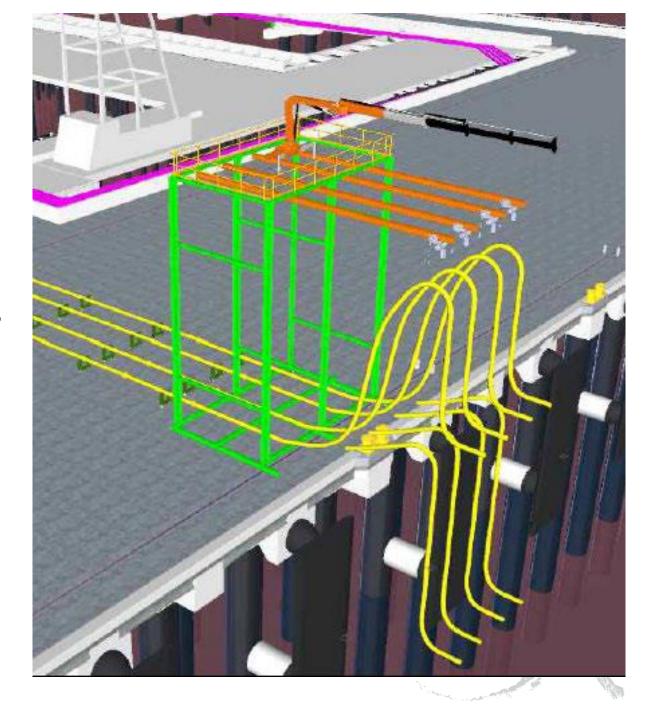


## Option 2 Mobile Hose Tower

Similar to POL 1&2

Requires segmented piping across deck.

\$3.9 million





### Option 3 Hybrid Mobile Hose Tower

More controlled hose handling compared to option 2 \$5 million



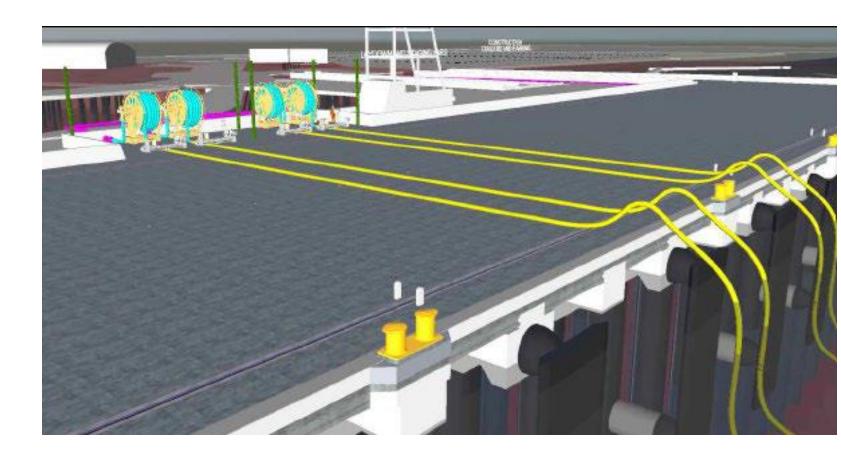


### Option 4 Hose Reel

Very Simple

Requires ship cranes to handle hoses.

\$3.6 million







#### Next Steps

Costs for dock bump out.
Cost for piping
Electrical space
classification and effects
that this may have on

the container crane.

