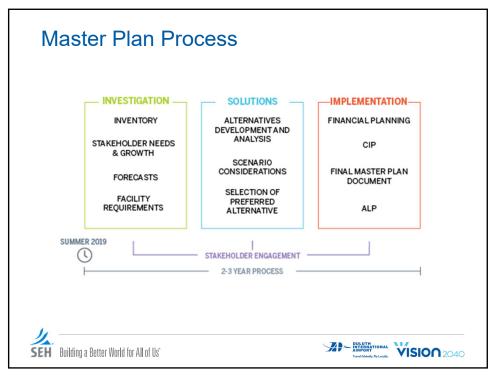


| Agenda | |
|---|--------------------------|
| Master Plan overview | |
| Public Involvement Plan | |
| Inventory | |
| Environmental Overview | |
| • <u>Break</u> | |
| Airside Facility Recommendations | |
| • <u>Lunch</u> | |
| Landside Facility Recommendations | |
| CIP and Financial Implementation | |
| | |
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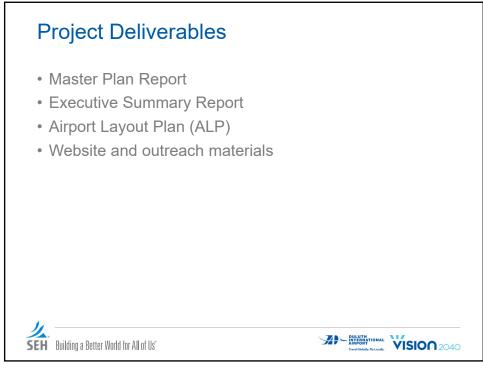


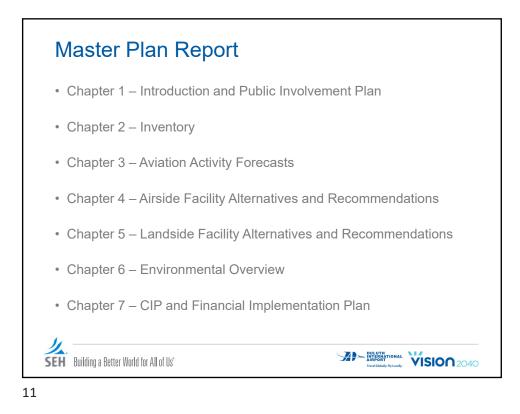




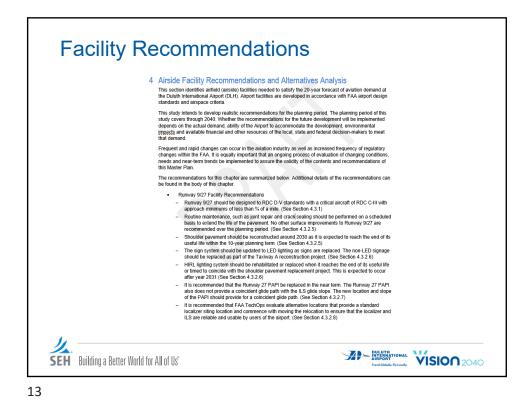


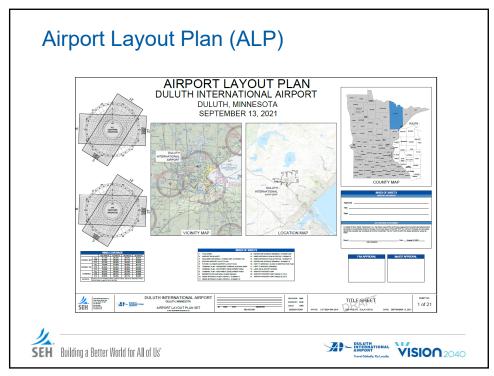


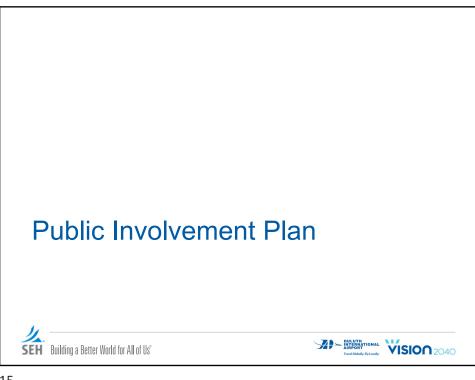






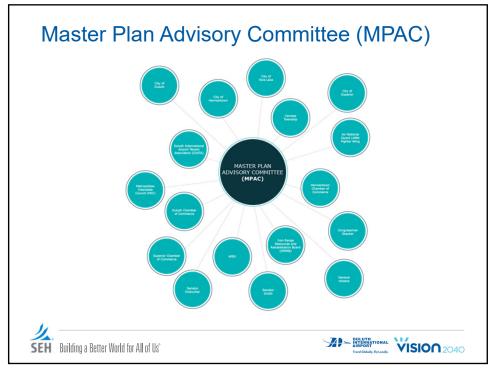






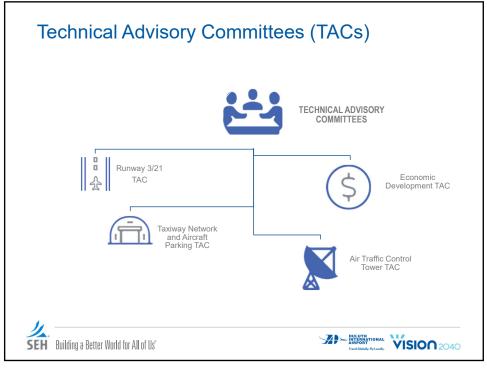








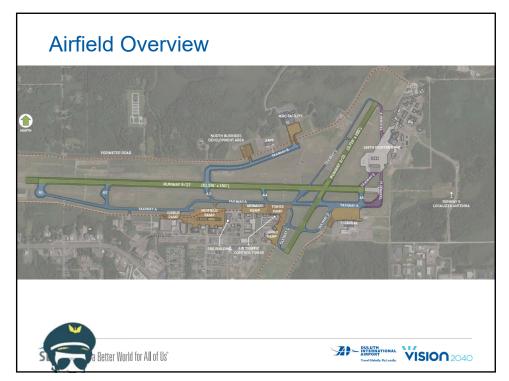


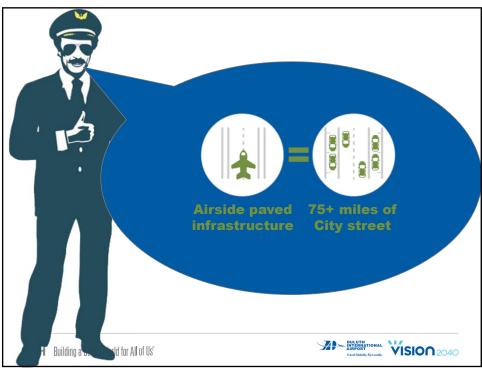




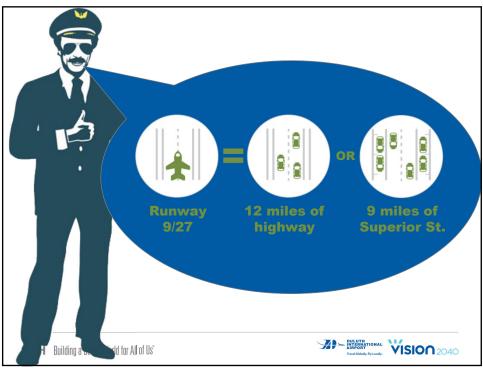


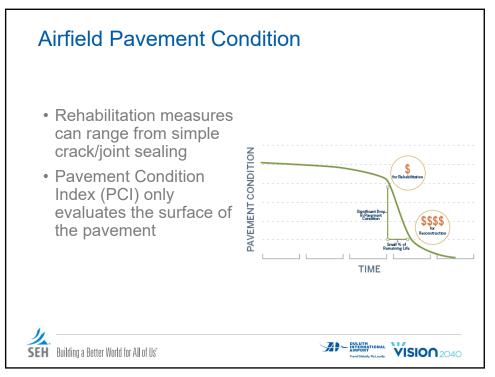


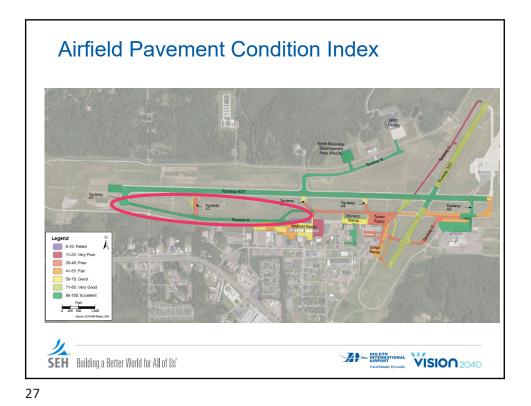


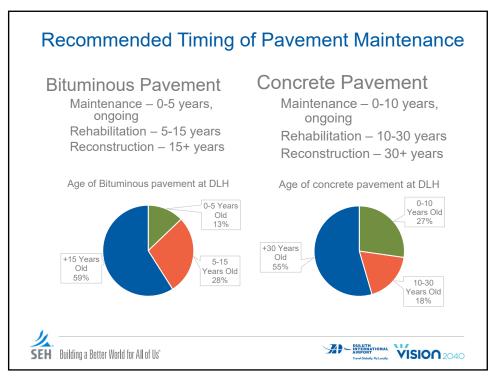


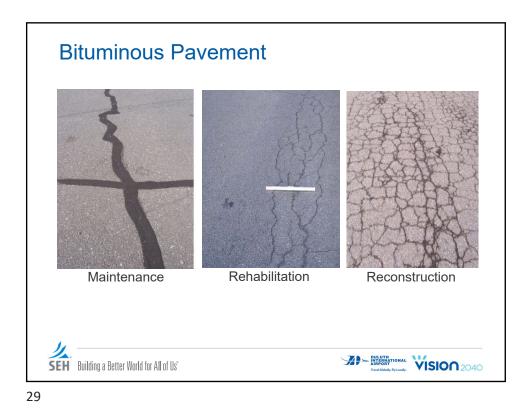




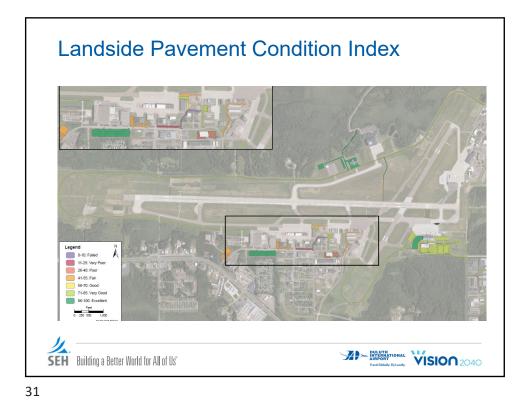














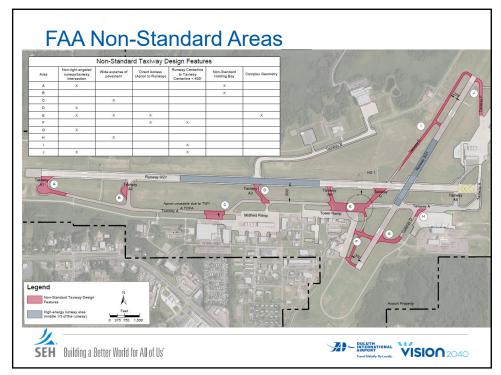
Goals of Taxiway Design Good design practices keep taxiway intersections simple. Complex layouts increase the possibility of pilot error. Three-node concept – A pilot has no more than 3 choices at an intersection – ideally, left, right and straight ahead. Intersection angles – Design turns to be 90 degrees wherever possible. Design to Reduce Runway Incursions Avoid wide expanses of pavement Limit runway crossings Avoid "dual purpose" pavements Avoid "high energy" intersections (middle 1/3 of the runway) Avoid direct access to runways

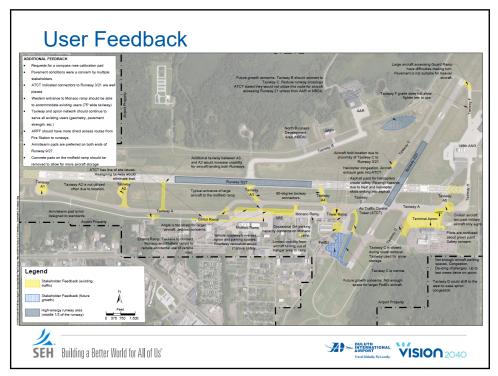
· Increase visibility - Right angle intersections provide the best visibility

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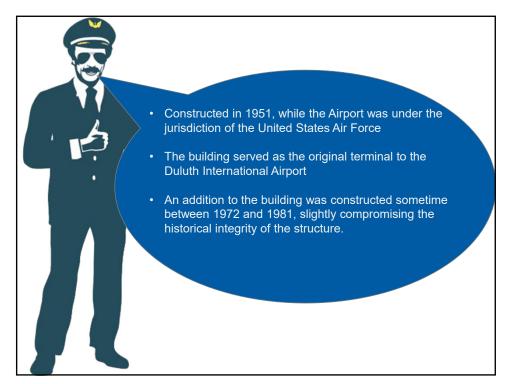




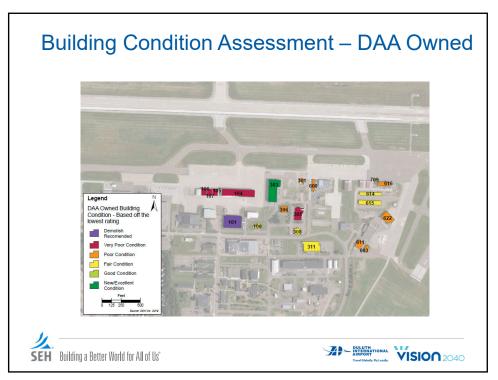




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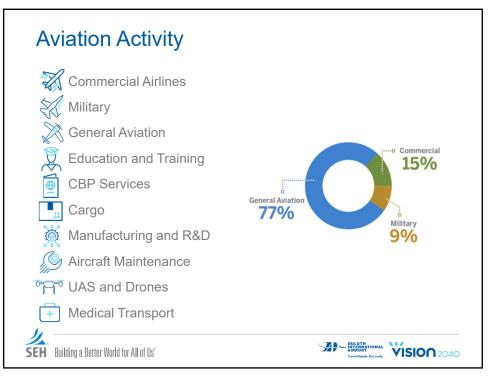








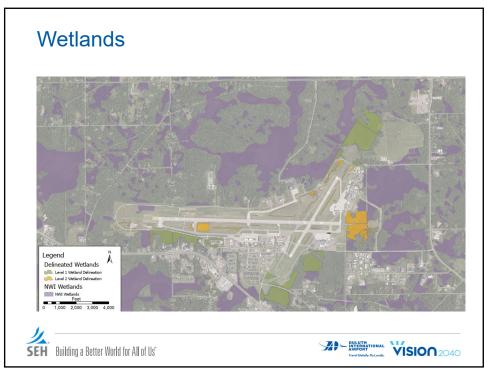






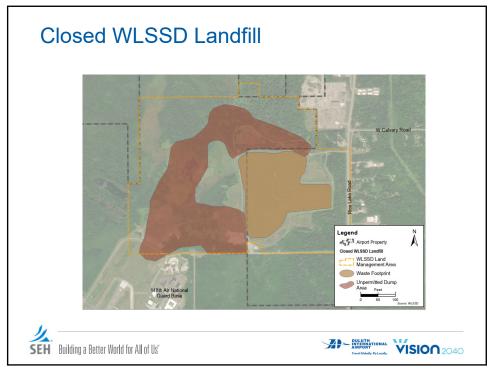


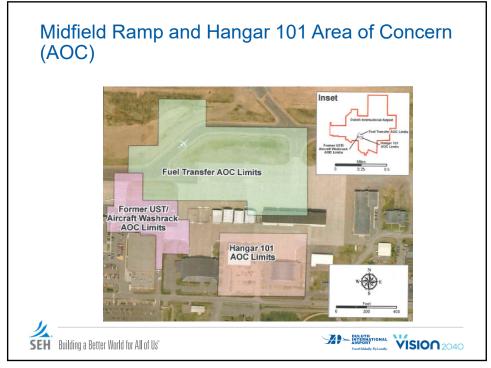


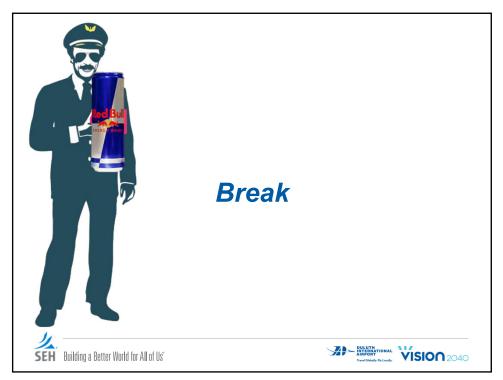














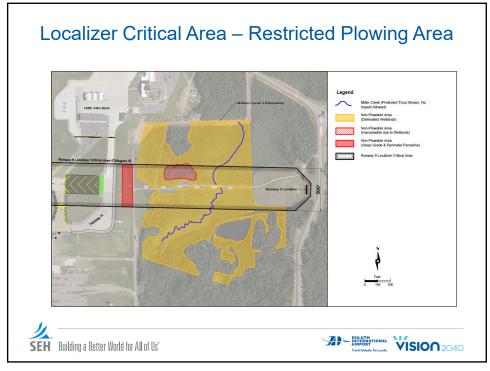












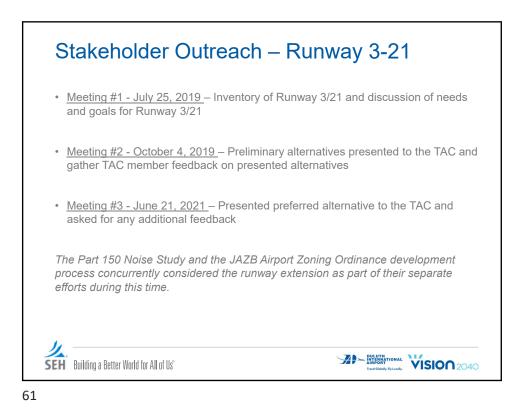
Runway 9 Localizer

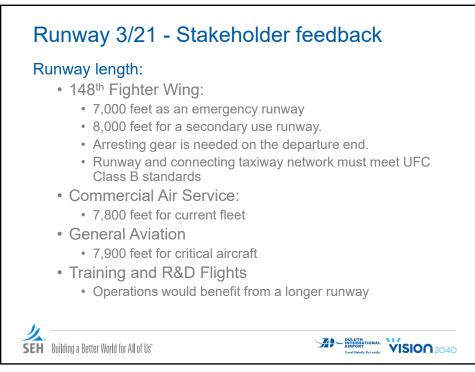
- Recommended to be relocated to 1,000' to 2,000' from runway end
 - Proposed location (orange) is 1,320' from runway end.
- Potential funding for project in infrastructure bill

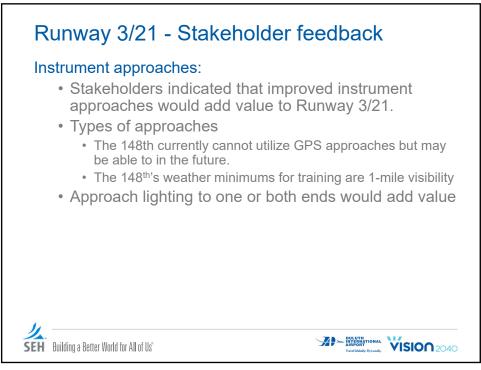
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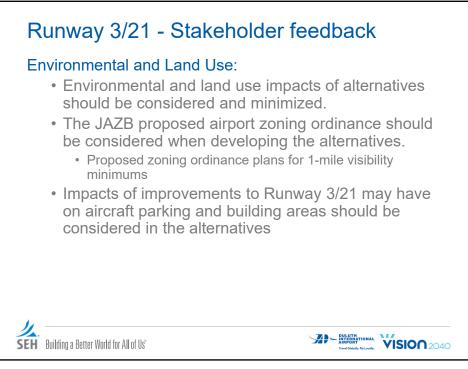




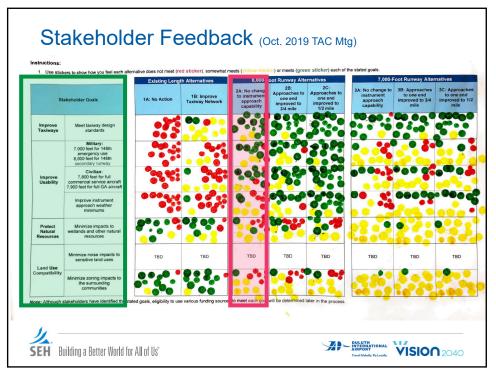


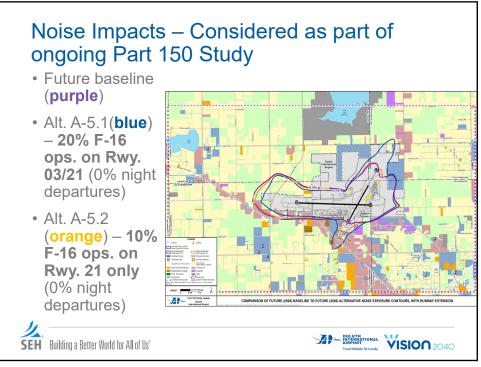




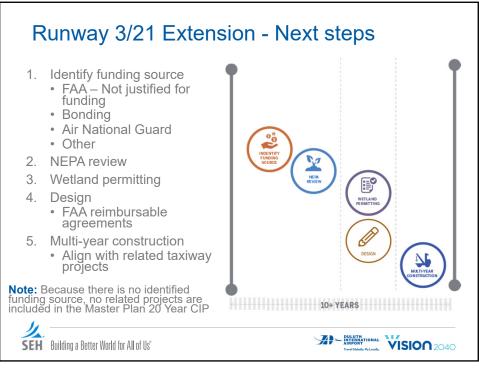


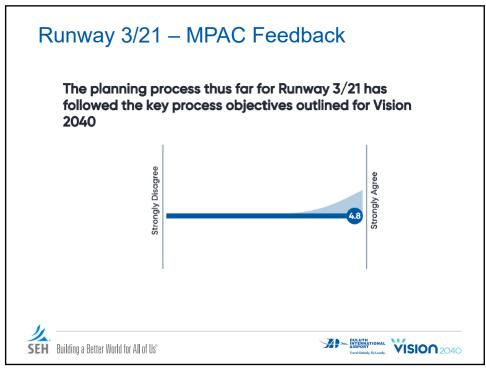
| Runway Dimension | Runway 3 Approach Minimums | Runway 21 Approach Minimums | Wetland Impacts | Cost Estimate |
|---------------------|----------------------------------|-----------------------------------|--------------------|------------------|
| 5,719' x 150' | 1-Mile | 1-Mile | - | \$0 |
| | 1-Mile | 1-Mile | - | \$23 Million |
| 8,000' x 150' | 1-Mile | 1-Mile | 34.2 Acres | \$72 Million |
| | 1-Mile | ¾ - Mile | 34.2 Acres | \$75 Million |
| | 1-Mile | ½ - Mile | 38.1 Acres | \$77.5 Million |
| 7,000' x 150' | 1-Mile | 1-Mile | 9.3 Acres | \$55 Million |
| | 1-Mile | ¾ - Mile | 9.3 Acres | \$58 Million |
| | 1-Mile | ½ - Mile | 13.2 Acres | \$60.5 Million |











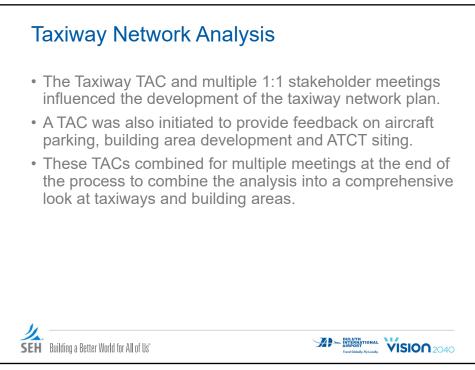






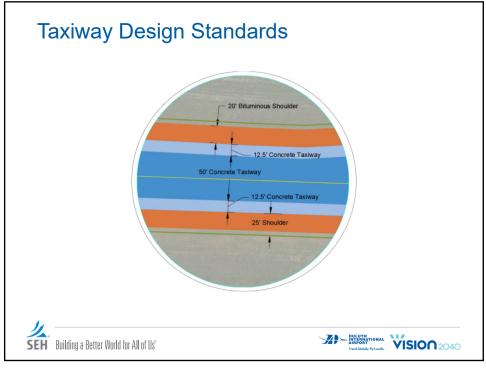


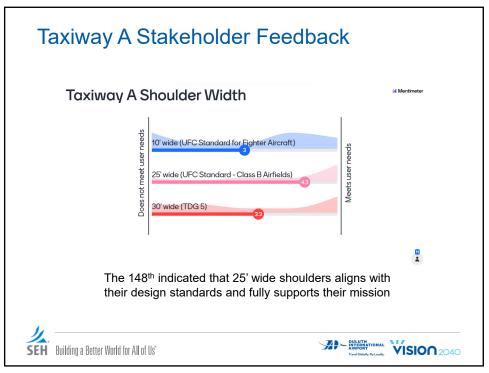


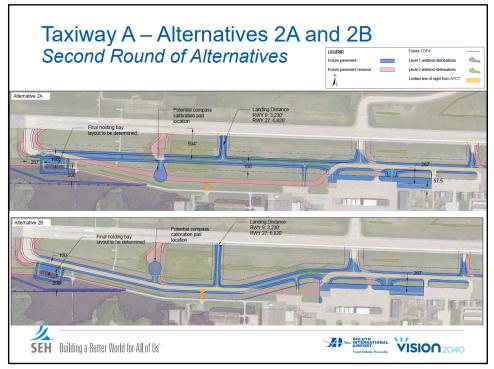




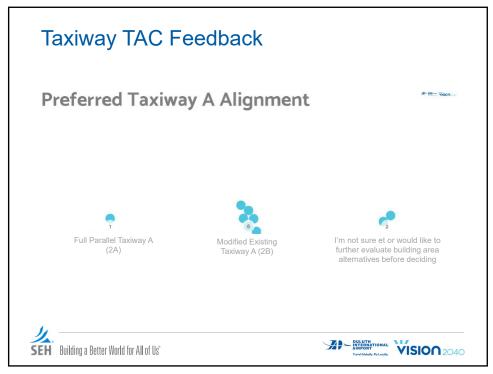
| | Civi | lian Aircraft Ree | quiremen | its | UFC / Military Aircraft | | | |
|---|-------------------------|------------------------|-----------------------|------------------------|----------------------------|------------------------|----------------|--|
| | TDG 2 <i>CRJ-700</i> | TDG 3 <i>A-31</i> 9 | TDG 4 <i>MD-90</i> | TDG 5 <i>A-</i> 330 | Class A UC-35 | Class B <i>F-16</i> | Class B C-5 | |
| Pavement Width | 35' | 50' | 50' | 75' | 50' | 75' | 75' | |
| Paved Taxiway Shoulder Required | No | Recommended | Yes | Yes | N/A ¹ | Yes ¹ | Yes² | |
| Paved Taxiway Shoulder Width | 15' | 3 3 Eligible f | 20' | 30' | _ 1 | 10'1 | 25' ² | |
| Total pavement width | 65' | 90' | 90' | 135' | 50' | 95' | 125' | |
| Notes: ¹ Air Force taxiways dev ² Army and Air Force air | | ively for fighter a | nd trainer | aircraft | | | ••••• | |

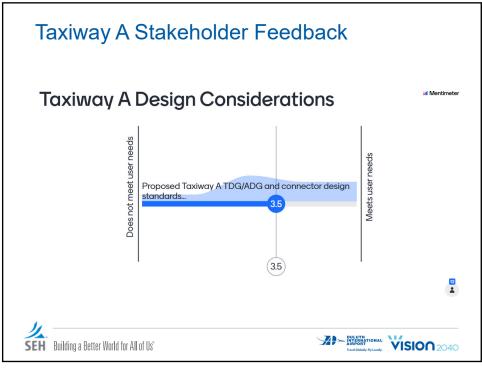




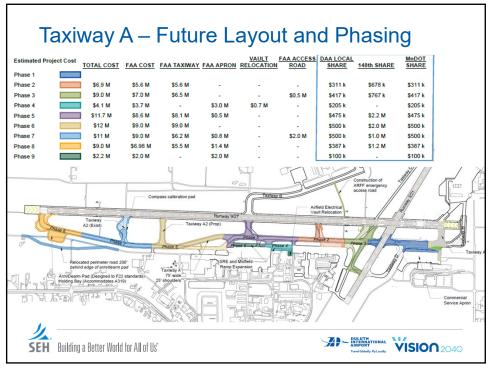


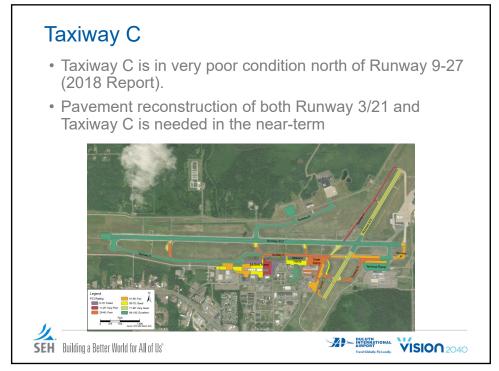




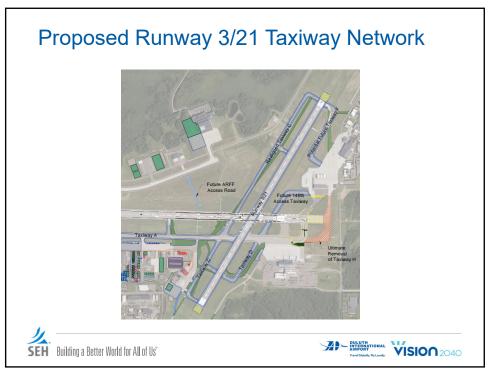


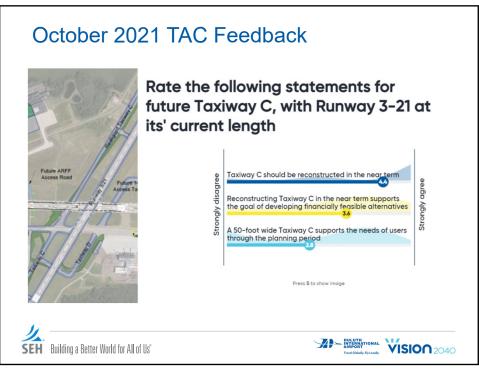


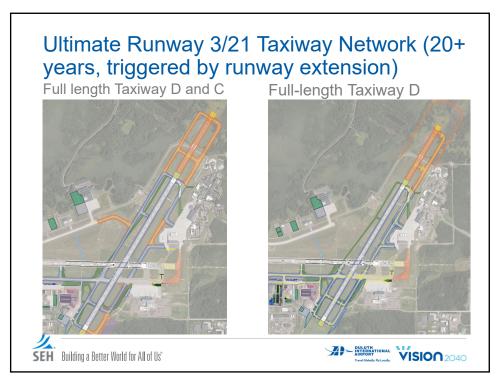


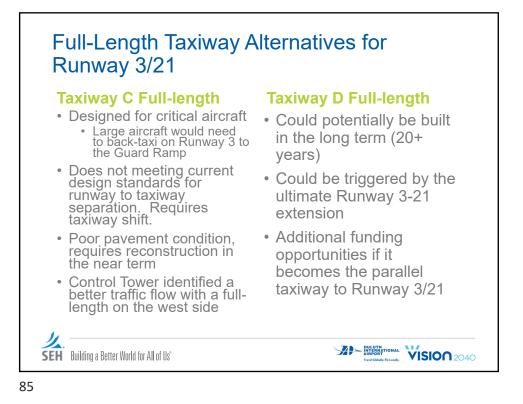


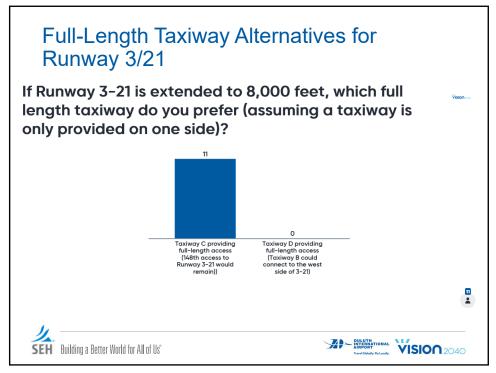


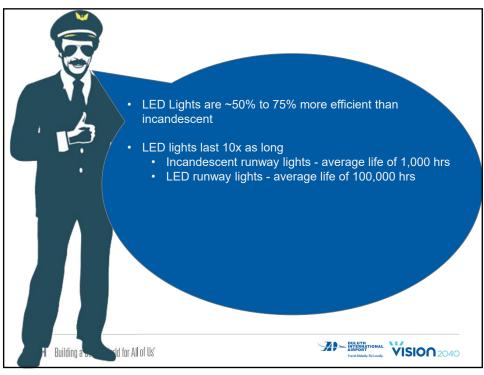


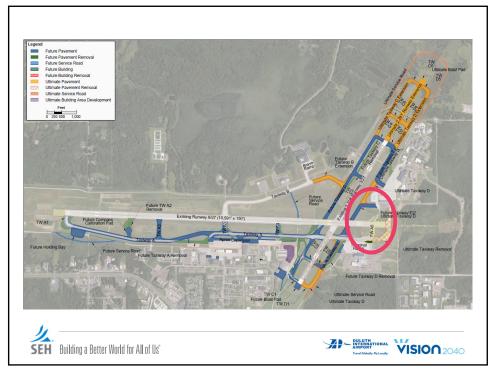






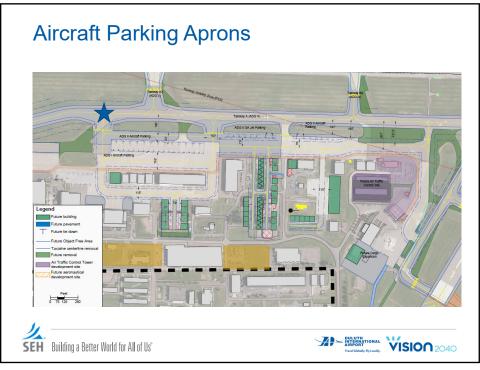




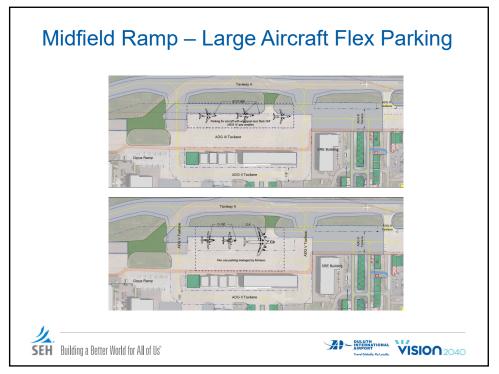


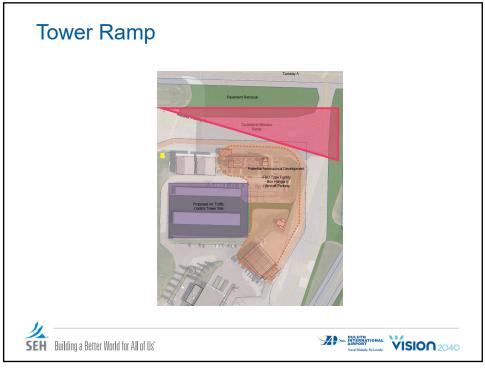


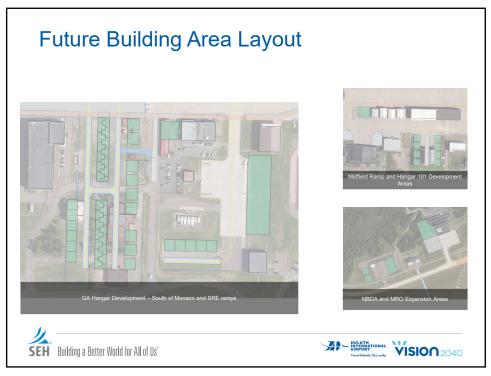


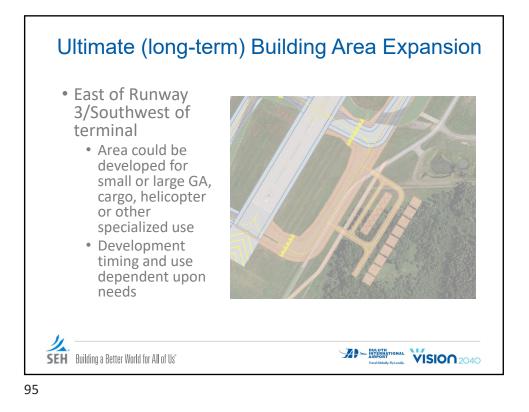


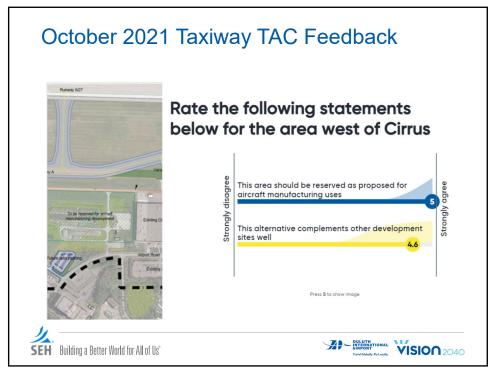


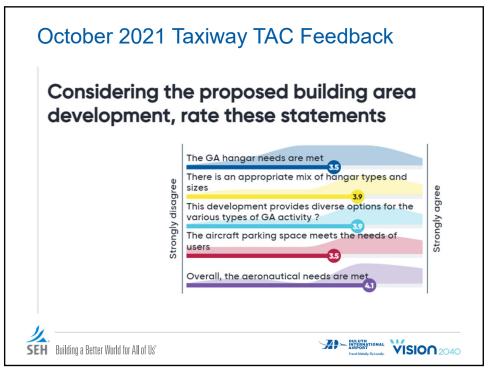








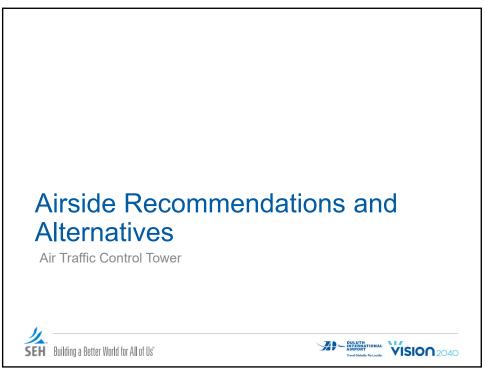


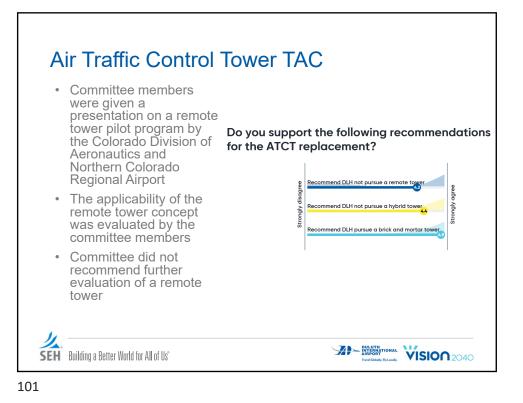












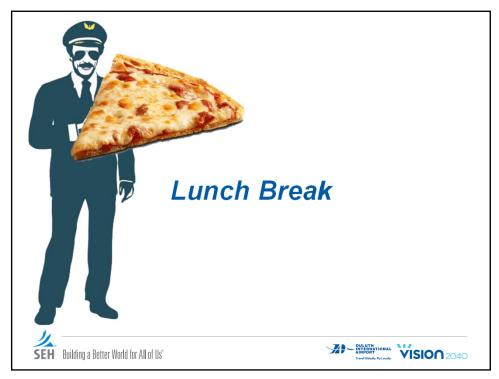


| | | Location | Approximate Cab Height (AGL) | Building area height restrictions | Meets minimum FAA Standards |
|-----------------------|----------------|---|------------------------------------|--------------------------------------|--|
| | Alternative 1A | South of the existing vault | 100' | 20' to 30' | Yes |
| | Alternative 1B | Aligned with the vault between Monaco and the SRE | 85' | 25' to 30' | Yes |
| | Alternative 1C | South of Monaco ramp along taxilane to the fuel farm | 85' | 20' to 30' | Yes |
| | Alternative 1D | Existing tower location | 85' | 30' | Yes |
| aut | Alternative 1E | Existing ranch and t-hangar area location | 110' | 35' to 40' | Yes |
| t Quadra | Alternative 1F | North of FedEx along tower ramp | 120' | 55' to 70' | Yes |
| Southwest Quadrant | Alternative 1G | South of FedEx | 180' | 35' to 40' | Potential impacts to Runway 3/21 instrument approach and departure procedures |
| | Alternative 1H | Immediately south of the fuel farm | 130' | 30' to 55' | Yes |
| | Alternative 1I | Hydrosolutions Site | 110' | 25' to 55' | Yes |
| | Alternative 1J | West of Hydrosolutions | 110' | 25' to 55' | Probability of identifying objects at the Runway 21 end is below minimum threshold |
| - | Alternative 1K | Located on top of the SRE building | 130" | 25' to 30' | Yes |
| Northwest Quadrant | Alternative 2A | East of the ARFF Station | 100' | - | A southern orientated tower is least preferred where snow accumulates |
| North Quac | Alternative 2B | North of the ARFF Station | 100' | - | A southern orientated tower is least preferred where snow accumulates |



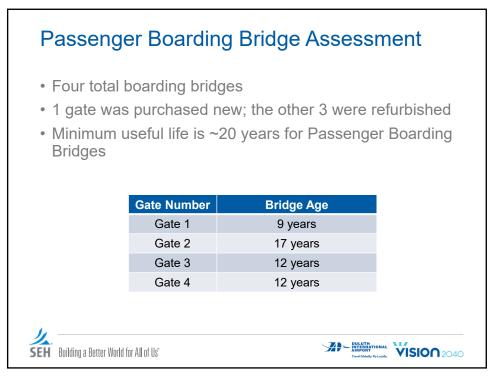




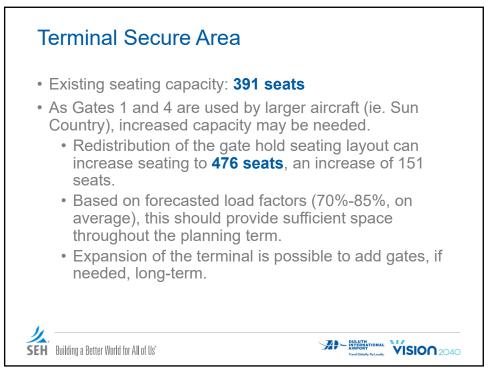


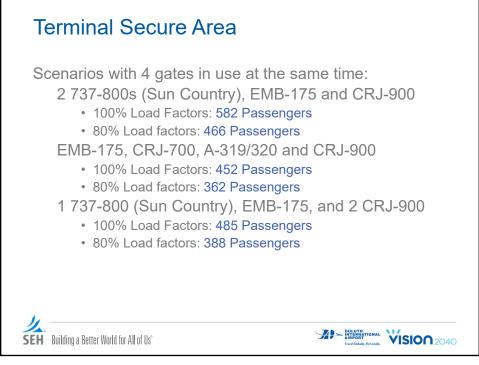




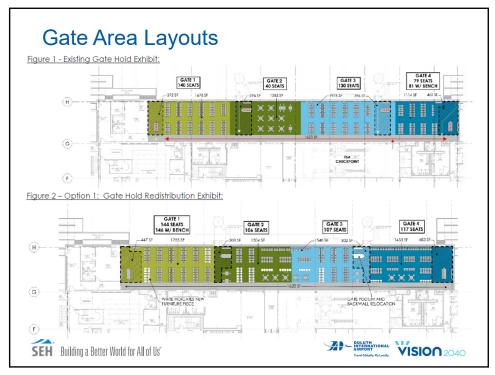






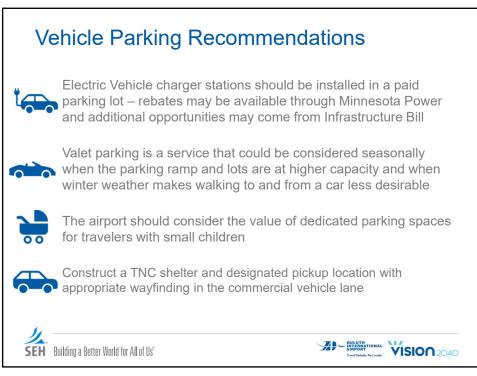


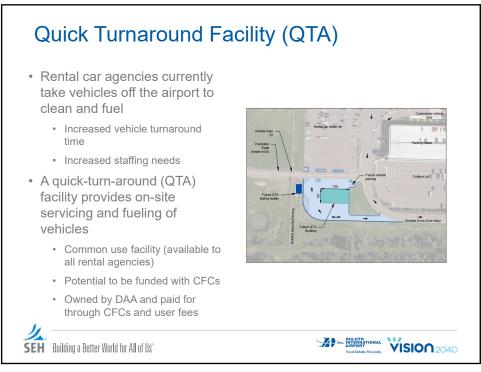




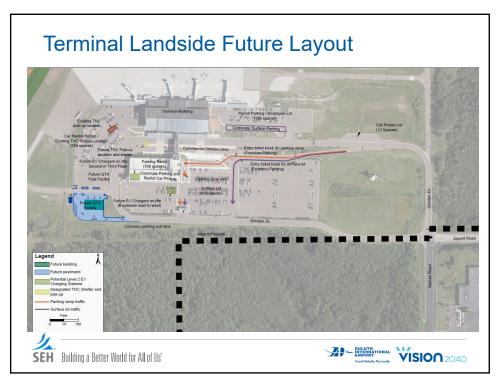










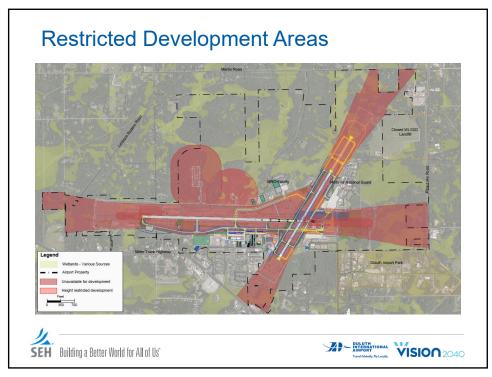


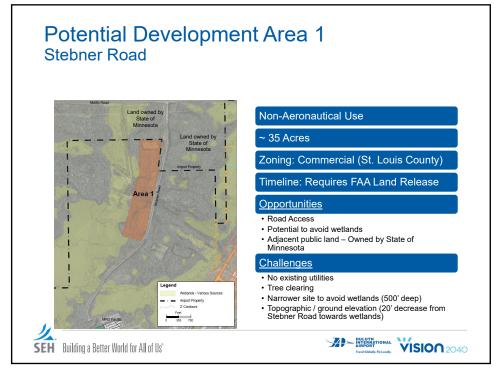
| | Airport Owned Snow Removal Equipment (SRE) | | | | | | | | | |
|------|--|-------------|-------------|-----------------------|-------------------|-----------------|-----------------------------|--|--|--|
| Unit | Equipment Type | Brand | Model | Manufacturing Year | Funding Source | Grant Number | Planned Replacement Year | | | |
| 13 | Plow | Oshkosh | HB237 | 1997 | 90% / 10% | | 2029 | | | |
| 16 | Plow | Oshkosh | P2525-SP | 1987 | 90% / 10% | AIP-07 | 2026 | | | |
| 17 | Grader | Caterpillar | 163H | 2005 | PFC 6 | | 2034 | | | |
| 18 | Grader | Caterpillar | 163H | 1997 | 90% / 10% | | 2030 | | | |
| 19 | Grader | Caterpillar | 163M3AWD | 2015 | 90%/5%/5% | AIP-58 / SP-182 | 2037 | | | |
| 20 | Blower | Oshkosh | H2723B | 2008 | 100% Federal | | 2028 | | | |
| 22 | Blower | Oshkosh | H2718B | 2001 | PFC 4 | | 2024 | | | |
| 28 | Loader | Caterpillar | IT62G | 2005 | PFC 6 | | 2026 | | | |
| | | | | | | | 2035 | | | |
| 29 | Sander | Chevrolet | 4500 Kodiak | 1999 | 90% / 10% | AIP-26 | | | | |
| 30 | Loader | Caterpillar | 972M | 2015 | 90%/5%/5% | AIP-58 / SP-182 | 2038 | | | |
| | | | | | | | 2025 | | | |
| 36 | Multi-purpose | Oshkosh | HT2926 | 2014 | 70%/15%/15% | AIP-57 / SP-179 | | | | |
| | | | | | | | 2025 (Multi) 2039 | | | |
| 37 | Sweeper | Oshkosh | HB2723 | 2005 | 95% / 5% | AIP-37 | | | | |
| 42 | Sander | GMC | 8000 | 1979 | | | 2021 | | | |
| 43 | Loader | Caterpillar | 930G | 2005 | | | 2031 | | | |

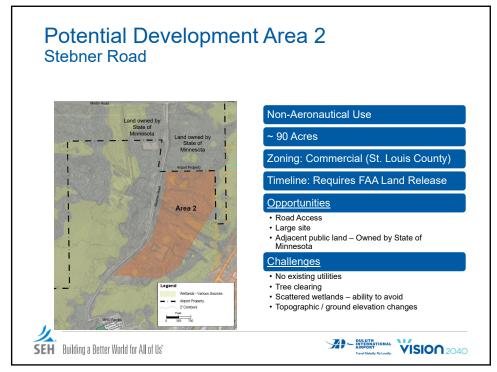


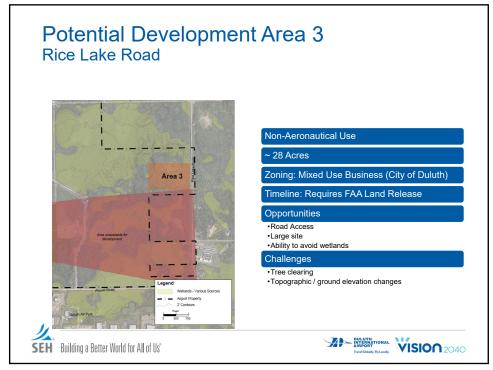


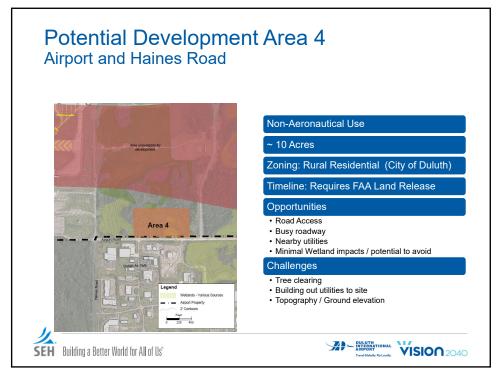






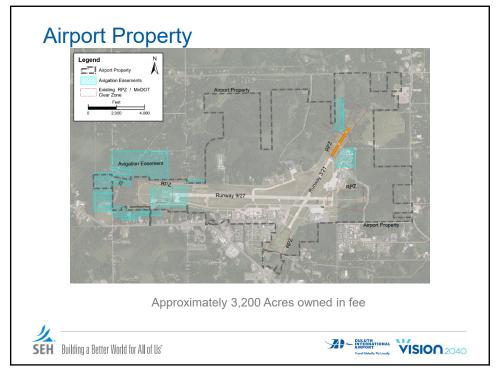






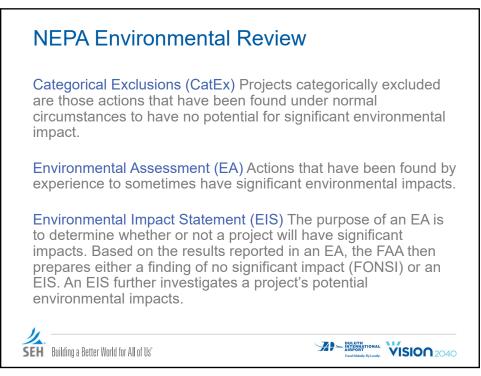


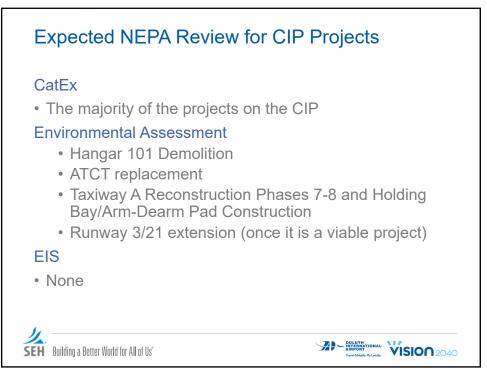


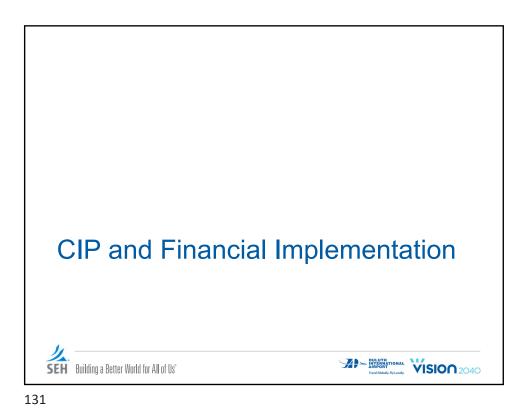


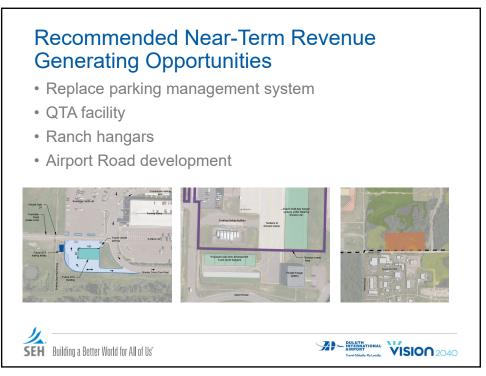


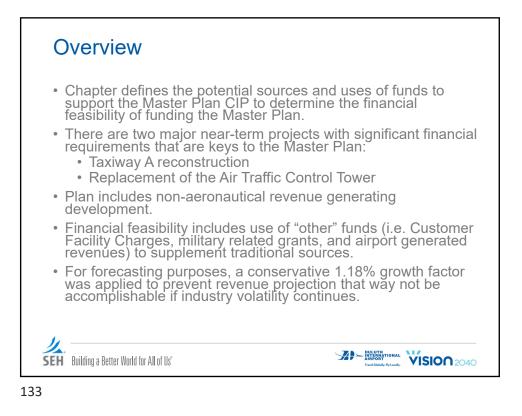


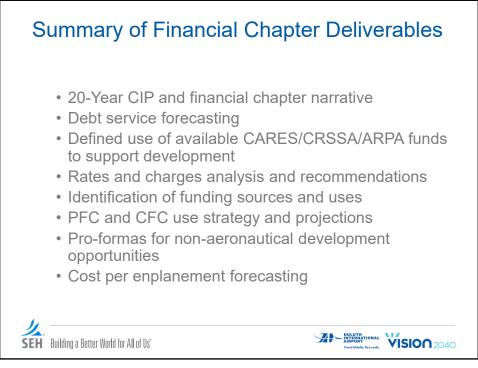


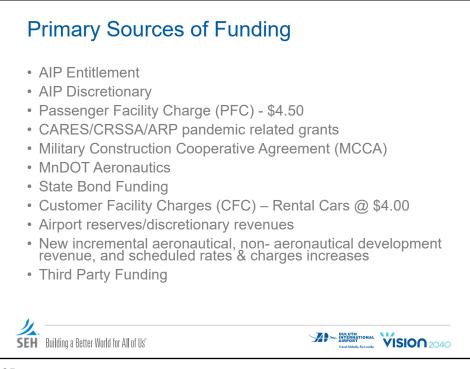




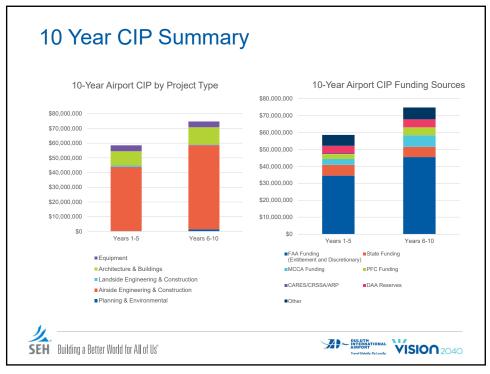


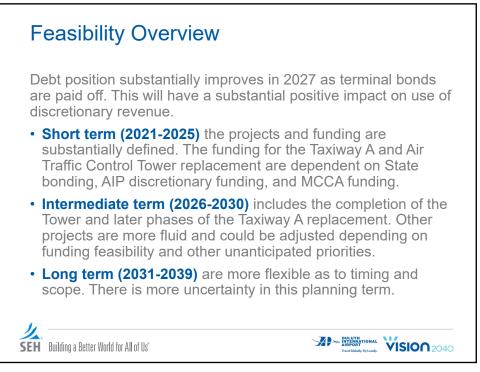


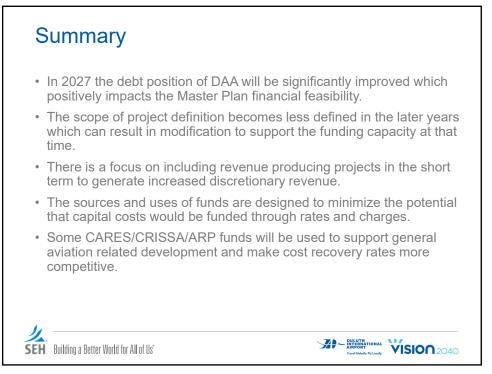


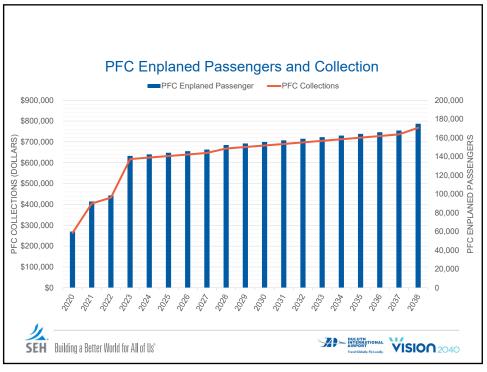


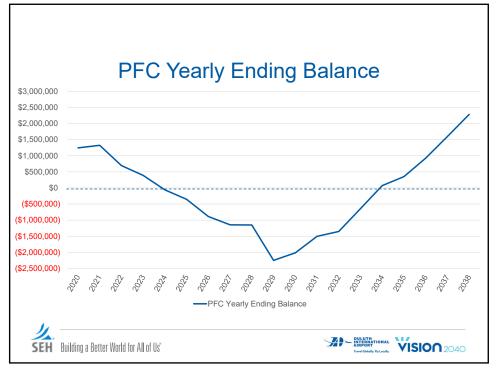












| ESTIMATED PFC COLLECTIONS AND PFC FUND BALANCE | • | | | | | | | | | | | |
|---|-----------|---------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|
| | | Actual 2020 | Forecast 2021 | Forecast 2022 | Forecast 2023 | Forecast 2024 | Forecast 2025 | Forecast 2026 | Forecast 2027 | Forecast 2028 | Forecast 2029 | Forecast 2030 |
| ANNUAL PFC COLLECTIONS Enplaned Passengers (000s) % Enplaned Passengers paying PFCs | | 66,117 90.6% | 101,549 90.6% | 108,669 90.6% | 155,150 90.6% | 156,981 90.6% | 158,833 90.6% | 160,707 90.6% | 162,604 90.6% | 167,936 90.6% | 169,738 90.6% | 171,56 90.69 |
| PFC Enplaned Passengers | [A] | <u>-</u> 59,935 | 92,054 | 98,508 | 140,643 | 142,303 | 143,982 | 145,681 | 147,400 | 152,234 | 153,867 | 155,520 |
| PFC Rate Less: Admin. Fee | | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.11 | \$4.50 0.1: |
| Adjusted PFC Rate | (B) | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 |
| PFC Collections | [C=A*B] | \$263,115 | \$404,119 | \$432,450 | \$617,424 | \$624,710 | \$632,081 | \$639,540 | \$647,086 : | \$668,306 : | \$675,477 | \$682,73 |
| PFC FUND Beginning Balance | (D) | \$1,431,839 | \$1,461,262 | \$1,323,281 | \$696,231 | \$388,929 | (\$59,356) | (\$354,553) | (\$887,303) | (\$1,145,981) | (\$1,151,833) | (\$2,247,979 |
| Annual PFC Collections Interest Earnings | | \$263,115 \$1,316 | \$404,119 \$2,021 | \$432,450 \$2,162 | \$617,424 \$3,087 | \$624,710 \$3,124 | \$632,081 \$3,160 | \$639,540 \$3,198 | \$647,086 \$3,235 | \$668,306 \$3,342 | \$675,477 \$3,377 | \$682,733 \$3,414 |
| Total PFC Collections | [E] | \$264,430 | \$406,140 | \$434,612 | \$620,511 | \$627,833 | \$635,242 | \$642,738 | \$650,322 | \$671,648 | \$678,855 | \$686,14 |
| PFC Uses City Loan 1 - GO Bonds Issued PFC Pay-As-You-Go Project Costs | | \$322,331 \$129,000 \$ | \$326,038 218,083 | \$324,163 \$737,500 | \$321,813 \$606,000 | \$323,619 \$752,500 | \$324,769 \$605,670 | \$325,238 \$850,250 | \$909,000 | \$677,500 | \$1,775,000 \$ | \$ 455,000 |
| Total Uses | [F] | \$451,331 | \$544,120 | \$1,061,663 | \$927,813 | \$1,076,119 | \$930,439 | \$1,175,488 | \$909,000 | \$677,500 | \$1,775,000 | \$455,000 |
| Ending PFC Balance | [G=D+E-F] | \$1,244,938 | \$1,323,281 | \$696,231 | \$388,929 | (\$59,356) | (\$354,553) | (\$887,303) | (\$1,145,981) | (\$1,151,833) | (\$2,247,979) | (\$2,016,832 |

| Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
|---------------|---------------|---------------|-------------|---------------|---------------|--------------|----------------|
| 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 |
| 173,406 | 175,272 | 177,161 | 179,072 | 181,005 | 182,961 | 184,941 | 192,94 |
| 90.6% | 90.6% | 90.6% | 90.6% | 90.6% | 90.6% | 90.6% | 90.6 |
| 157,192 | 158,884 | 160,596 | 162,328 | 164,081 | 165,854 | 167,649 | 174,905 |
| \$4.50 | \$4.50 | \$4.50 | \$4.50 | \$4.50 | \$4.50 | \$4.50 | \$4.50 |
| 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.39 | \$4.3 |
| \$690,074 | \$697,502 | \$705,018 | \$712,622 | \$720,316 | \$728,101 | \$735,977 | \$767,834 |
| (\$2,016,832) | (\$1,503,307) | (\$1,352,317) | (\$643,775) | \$72,410 | \$351,328 | \$923,069 | \$1,597,726 |
| \$690,074 | \$697,502 | \$705,018 | \$712,622 | \$720,316 | \$728,101 | \$735,977 | \$767,834 |
| \$3,450 | \$3,488 | \$3,525 | \$3,563 | \$3,602 | \$3,641 | \$3,680 | \$3,83 |
| \$693,525 | \$700,990 | \$708,543 | \$716,185 | \$723,917 | \$731,741 | \$739,657 | \$771,674 |
| \$ 180,000 | \$ 550,000 | Ś- | Ś - | \$ 445,000.00 | \$ 160,000.00 | \$ 65,000.00 | \$ 85,000.00 |
| \$180,000 | \$550,000 | \$0 | \$0 | \$445,000 | \$160,000 | \$65,000 | \$ \$\$,000.00 |
| | (\$1,352,317) | (\$643,775) | \$72,410 | \$351,328 | \$923,069 | \$1,597,726 | \$2,284,400 |

