AUS AIRPORT EXPANSION AND DEVELOPMENT PROGRAM

Sustainable Development Goals

October 15, 2024

Austin-Bergstrom International Airport

Document Revision Status

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Review & Approval

APPROVED BY:

Department of Aviation

BJ Carpenter 11/6/2024

Signature

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1. INTRODUCTION

Austin-Bergstrom International Airport (AUS) is committed to incorporating sustainable principles, climate resiliency best practices, and environmental stewardship into all aspects of its culture, planning, development, and operations. AUS sustainability goals are principally guided by the City of Austin's (COA) goals, plans and programs. AUS staff work closely with the COA to ensure that efforts at the Airport align with and support the sustainable policies and initiatives in place at the city level. In addition to the Airport's partnership with the broader COA, some of the other partnerships key to AUS's efforts include those with Austin Energy, Austin Water Utility, Transportation Department, Capital Delivery Services, and Sustainability Office.

Sustainability initiatives thus far have led to energy efficient retrofits, electric vehicles, transition to renewable natural gas, use of alternative fuels including sustainable aviation fuel, strides in composting and recycling, and purchases of renewable energy and carbon off-sets from sustainable sources. AUS has made strides in the use of reclaimed water, saving millions of gallons of potable water, and has partnered with airlines to support electric-powered airline ground service equipment. The Airport has also received LEED Green Building certifications or Austin Energy Green Building (AEGB) ratings on multiple airport buildings.

In 2019, the COA and the Federal Aviation Administration (FAA) approved the Austin-Bergstrom International Airport 2040 Master Plan, which serves as a roadmap for the future expansion and modernization of AUS with 61+ improvement projects. In 2021, the approved *AUS 2040 Master Plan* implementation program and shifted to a multi-year improvement program known as the Austin Expansion and Development Program (AEDP).

1.1. PURPOSE AND OVERVIEW

The AUS Sustainability Manual (ASM) is intended to facilitate the implementation of the AEDP goals for the advancement of sustainable practices in design, construction and operations at AUS. Sustainability goals and metrics were developed by the City of Austin Aviation Department, in collaboration with multiple COA and AUS departments and stakeholder partners. This manual includes background information on the development of the goals, the establishment of metrics, stakeholder involvement, and Sustainability Goal checklists for the project team use.

The AUS Sustainability Manual incorporates COA requirements, local plans and policies, including:

- Austin Climate Equity Action Plan (2020-2021)
- City of Austin Green Building Policy Update (2021)
- Austin Energy Green Building (AEGB)
- AUS – Environmental and Social Governance Report (2023)
- City of Austin Resolutions
- City of Austin Ordinances

The ASM also incorporates other industry best practices for sustainable design, including:

- U.S. Green Building Council
- *Sustainable SITES Initiative for landscape-oriented projects

- *WELL Building Standard
- Living Building Challenge
- ParkSmart for parking structures
- Institute for Sustainable Infrastructure Envision for infrastructure projects
- CEEQUAL for civil engineering projects
- GreenRoads for roadways and trail projects

* These rating systems are specifically designed to pair with LEED certification

1.2. AUSTIN EXPANSION AND DEVELOPMENT PROGRAM (AEDP)

The intent of the program is to increase capacity at AUS systematically and responsibly over time through a planned strategic approach that includes the development of the design, implementation and operation for the Airport's key aspects. The AEDP is a multi-year airport expansion, development and improvement program that will:

- Meet the air service needs of Central Texas
- Maintain excellent passenger experience
- Provide flexible expansion for dynamic airline growth

The intent of the program is to increase capacity at AUS systematically and responsibly over time through a planned strategic approach that includes the development of the design, implementation and operation for the Airport's key aspects. In the next ten years, the AEDP is expected to focus on the projects as listed in **Table 1** and shown on **Figure 1**:

Table 1: AEDP Project List

• Barbara Jordan Terminal (BJT) Optimization / Modernization
  ○ West Gate Expansion
  ○ West Infill
  ○ International Processing Improvements
  ○ Atrium Infill
  ○ Airport Operations Center Relocation
  ○ BJT to Tunnel Interface
	• New Arrival / Departures Hall
	• Red Garage Demo
	• Utility Infrastructure
	• Central Utility Plant
	• Concourse B
	• Passenger and Utility Tunnel
	• Parking (Garages / Surface Lots)
	• New Mid-field taxiway

Figure 1: AEDP Projects

1.3. GOALS DEVELOPMENT

Goals and metrics were developed for the AEDP projects based on the City's goals, industry best practices, and benchmarking with other airports that are leaders in sustainability. The goals were formed through a collaboration with the AUS Aviation Department, COA Sustainability Office, Austin Energy, Austin Water Utility and Capital Delivery Services among others. Early on in the goal development process, an AUS Sustainability Committee (ASC) was formed, and members of the committee were involved in the review and refinement of the initial goals. A series of workshops was then held for each individual goal with key relevant participants. The goals were presented at multiple workshops with AUS leadership and subsequently refined.

Figure 2 illustrates the process, the stakeholders, teaming partners, and considerations. This process began in November 2022 and ultimately resulted in nine (9) overarching goals with specific targets and metrics. These goals further or build upon AUS and COA ongoing sustainability initiatives. They have been vetted through months of collaboration with internal and external AUS stakeholders, and approved for use by AUS leadership.

Figure 2: AEDP Sustainability Goal Process

2. STAKEHOLDER ENGAGEMENT

The AUS Sustainability Goals, Metrics, and Targets are the result of a collaborative planning effort between the AUS Aviation Department and other airport stakeholders. A series of workshops were held on the following dates with airport stakeholders including AUS Aviation staff, contractors, the public engagement office, concessionaire representatives, airline technical representatives, Austin Energy representative and members of the executive leadership team as needed:

- City Policy / Local Trend Checkin February 21, 2023, March 9, 2023
- AUS Sustainability Committee Meeting 1 – October 11, 2023
- Goal 5: Waste Diversion Workshop – October 25, 2023
- Goal 6: Resiliency Workshop – October 25, 2023
- Goal 4: Charging Infrastructure Workshop – October 26, 2023
- Goal 7: Green Infrastructure Workshop – October 27, 2023
- Goals 8 & 9: Passenger Experience & Community Trust Workshop – November 6, 2023
- Goal 1: Energy Conservation – November 14, 2023
- Goal 3: Carbon Neutrality Workshop – November 15, 2023
- Goal 3: Carbon Neutrality Goal Revision Meeting – November 16, 2023
- Goal 2: Water Conservation Workshop – November 17, 2023
- AEDP Airfield Infrastructure Envision Charrette No. 2 – November 30, 2023
- AUS Sustainability Committee Meeting 2 – December 7, 2023

Additional stakeholder meetings have been held during Project Definition Document (PDD) development for specific projects.

3. SUSTAINABILITY GOALS

The goals and associated targets are identified in **Table 2**. These goals are included in project checklist in Section 7.

Table 2: Sustainability Goals Summary

Goal	Target Number	Target	Metric Number	Metric (if applicable)
GOAL 1: ENERGY CONSERVATION	1A	Vertical AEDP Projects to achieve a minimum 15% reduction in electrical consumption over the base case using the current City of Austin (COA) energy code.	1A1	Track energy-related credits as part of the Austin Energy Green Building (AEGB) rating system.
			1A2	Complete a Return on Investment (ROI) analysis for proposed significant energy efficiency measures.
	1B	Install seven (7) megawatts (MWs)of new, on-site solar panels by 2034.	1B1	Focus on solar projects with a Return on Investment (ROI) of fewer than ten (10) years.
			1B2	Identify AEDP projects that can support on-site solar, coordinate with Austin Energy (AE) to identify best strategy for AUS (community solar or on-site usage), and evaluate grant opportunities.
			1B3	Track progress towards the City of Austin Net Zero Goal.
GOAL 2: WATER CONSERVATION	2A	Evaluate all projects for auxiliary water collection and use opportunities (condensate,rainwater, etc.) above current code requirements.	2A1	Complete a water balance using Austin Water Utility (AWU)-approved methodologies for each project.
			2A2	Complete Return on Investments (ROIs) for auxiliary water collection and use opportunities.
	2B	All projects to be designed using 100% non-potable water as the primary source for: irrigation, cooling, toilet / urinal flushing, and other significant non-potable water uses identified in the water balance calculator.		
	2C	All landscape projects should adhere to Austin Water guidelines and AUS water usage policies by including innovative approaches to reduce all water usage.		
	2D	Evaluate all projects for opportunities to convert existing irrigation systems from potable to non-potable water sources.	2D1	Provide documentation, Return on Investments (ROIs), and recommendations.
	2E	Use 100% non-potable water (when available) for dust control during projects.		

Goal	Target Number	Target	Metric Number	Metric (if applicable)
GOAL 3: CARBON NEUTRALITY	3A	Reduce embodied carbon by 40% as defined by the COA Climate Equity Action Plan.	3A1	Perform a building Life Cycle Analysis (LCA) for all projects.
	3B	Design all vertical structures to have net-zero operations as defined by the City of Austin's Climate Equity Action Plan.	3B1	Perform natural gas avoidance study / Return on Investments (ROIs) for each project in pre-design.
	3C	Provide 100% carbon neutral power to all new aircraft gates and hardstand passengers operations.	3C1	Track and report Return on Investments (ROIs) with fewer than ten (10) years.
GOAL 4: CHARGING INFRASTRUCTURE	4A	New gates should be designed to include the equivalent of one (1) fast Ground Support Equipment (GSE) charger (2 charge points) per gate.	4A1	Create a proposal for this initiative and submit it to airline partners for consideration; coordinate with airlines to locate where to install chargers at each gate.
	4B	Public parking projects to incorporate infrastructure for 10% of spaces to have charging capability.	4B1	Perform capacity analysis of charger implementation, including charging for Americans with Disabilities Act (ADA) spaces
	4C	Evaluate the feasibility of installing additional level 3 chargers on campus.	4C1	Develop an Airport Electrification Roadmap by the end of 2025.
GOAL 5: WASTE DIVERSION	5A	Projects to achieve minimum 75% diversion rate for construction and demolition (C&D) waste.	5A1	Project teams to track waste during construction and demolition waste and report to the AUS Environmental Division.
	5B	During early design, all projects will perform a waste stream analysis that includes estimated quantities, capture, storage, disposal, bulk management, logistics, and efficiency improvements.	5B1	Provide management alternatives and costs to AUS Sustainability Committee.
	5C	Establish a ten (10) gate threshold for trash, recycling, and compost transfer points (chute rooms or equivalent) in the new terminal facilities.	5C1	Provide management alternatives and costs to AUS Sustainability Committee.
GOAL 6: RESILIENCY & ADAPTABILITY	6A	Identify alternative solutions for accessing potable water (a minimum 2-day supply) during possible disruptions of water services including a plan for water distribution that prioritizes concessions and airlines.	6A1	Recommend solutions including costs and operational logistics
	6B	Evaluate an integrated microgrid strategy for AUS.	6B1	Explore incorporating Resiliency as a Service (RAAS) in collaboration with Austin Energy, solar panels, battery storage, etc. including associated costs.
	6C	Conduct climate-risk evaluations on all projects to ensure adaptability.	6C1	Each project should be evaluated on: extreme winter weather, tornadoes / straight line winds, extreme flooding, extreme heat, wildfire, and drought.

Goal	Target Number	Target	Metric Number	Metric (if applicable)
GOAL 7: GREEN DEVELOPMENT	7A	All vertical projects to achieve a minimum of a 4-star Austin Energy Green Building (AEGB) rating	7A1	Track points using scorecards.
	7B	All infrastructure projects to achieve a Gold verification through the Envision framework and verification system.	7B1	Track points using scorecards.
	7C	All parking garages to achieve Gold certification as part of the Parksmart certification system.	7C1	Track points using scorecards.
GOAL 8: PASSENGER EXPERIENCE	8A	Improve the passenger experience at AUS by increasing equitable and accessible designs and services for all passengers.	8A1	Designs should meet and exceed ADA requirements using Universal Design and Universal Accessibility principles.
			8A2	Design spaces to be useful, accessible, and comfortable for people with visible and non-visible disabilities (e.g., features and service options that require little physical effort such as automated doors).
			8A3	Design to reduce safety hazards of employees and passengers (e.g., clear directional signage).
	8B	Incorporate local Austin and Central Texas themes and experiences throughout the passenger journey.	8B1	Partner with local vendors, concessionaires, and business owners when selecting and assembling products, materials, vegetation, decoration, and other elements that will be installed or used by passengers throughout the airport.
			8B2	Use local and indigenous materials and plants.
			8B3	Educate passengers about our local vendors, partners, and materials through signage or visual aids.
	8C	Highlight and promote art and music throughout the passenger journey.	8C1	Design interior and exterior spaces that can easily incorporate the COA Art in Public Places Program and the AUS Changing Exhibits Art Program, prioritizing local artists.
			8C2	Incorporate multiculturalism aspects during the specification process to promote diversity and inclusion through the use of local craftsmanship and artistically-enhanced products.
			8C3	Increase the number of artistic experiences (visually, aurally, and tactilely) offered to passengers.

Goal	Target Number	Target	Metric Number	Metric (if applicable)
GOAL 9: COMMUNITY TRUST	9A	Thoughtfully consider potential impacts on the community (e.g., air quality, noise, vibration, light pollution, safety, wayfinding) and ensure airport staff and stakeholders act in their best interest accordingly during construction.	9A1	Coordinate with AUS Department of Aviation Divisions to evaluate potential community effect(s) of each project, and support them in reducing effects (transportation, noise, water, air, land use, energy, equity) until project completion.
			9A2	Propose setting up a communications system to easily and equitably receive and respond to feedback from the community (via Department of Aviation staff) before and during construction.
	9B	Support the surrounding communities during design, construction, and/or operation by creating jobs, offering job trainings and resources, and establishing educational partnerships.	9B1	Track and document the number of jobs created (including type and duration) as a result of each project.
			9B2	Track workforce training initiatives (i.e. apprenticeships, internships), community outreach, and educational activities for each project.
	9C	Proactively communicate about projects, emphasizing their environmental and sustainability initiatives/efforts and project updates and timelines.	9C2	Team project managers to report key sustainability metrics throughout projects to AUS.

4. GOVERNANCE AND FRAMEWORK

AUS's Aviation Department is the lead department within the organization for oversight of the ASM and Sustainability Goals Checklist. The Department is also responsible for the implementation and monitoring of the sustainability goals for all applicable projects. The Department is also responsible for coordination with relevant stakeholders, the ASC and the AUS executive team, as needed.

The ASC was formed in the Fall of 2023 as part of the AEDP sustainability goal development process and will function as champions and approvers for all of the Airport's sustainability efforts moving forward. The ASC is comprised of representatives from various airport departments and airport leadership, ensuring diverse expertise, perspectives, and decision-making authority. The ASC approves or disapproves goals, measures, and recommendations brought forth by the Aviation Department on issues pertaining to sustainability, resiliency environmental responsibility and sustainability.

After the Aviation Department's initial review of project submittal's compliance with the Sustainability Goal Checklist, the ASC has the responsibility of reviewing submissions in relation to the approved Sustainability Goals and will provide feedback on each project as it relates to each of the nine Sustainabilty Goals. Depending on project size, the ASC will review each project submission and provide guidance and feedback at project milestones (typically at Planning/Pre-Design, 30%, 60%, and 90% and Post-Construction). Effective communication between project teams, the Aviation Department, and the ASC is essential. The Chief Sustainability Officer (or designee) facilitates this collaboration.

5. SUSTAINABILITY REVIEW PROCESS

The Aviation Department works with each project team to assess sustainability opportunities from project inception through the design and construction phases. For large capital projects, the Department will host a Sustainability Interdisciplinary Review (SIR) Kick-Off Meeting to solicit feedback from relevant stakeholders. At least one additional Interdisciplinary meeting should be held. At the beginning of each design phase and the construction phase, SIR meetings should be held. The kick-off and the additional reviews should include attendance of the entire design team (architect, electrical, mechanical, civil, structural engineers, landscape architect, energy, etc.) and all relevant stakeholders (AUS Aviation staff, task managers, construction manager, contractor, the public engagement office, concessionaires, airlines, etc.). The PM and design team are required to attend to maximize feasible outcomes. All integrated design meetings shall be led by the Chief Sustainability Officer (or appointee).

The Sustainability Goals and Checklist are overseen by the ASC, which plays a critical role in evaluating projects from a sustainability perspective and offering technical guidance aligned with AUS's sustainability goals. The checklist and its accompanying documentation will undergo assessments at key milestones of applicable projects. As an integral part of the standard design review process, the ASC and supporting documentation will request a status update at each phase of the project (typically at Planning/Pre-Design, 30%, 60%, and 90% and Post-Construction) in consideration of the applicable goals. These milestone check-ins ensure alignment with the goals outlined in the ASM. Review comments from the checklist are provided alongside design-related feedback. **Figure 3** provides an illustration of the sustainability review process.

Figure 3: Sustainability Review Process

Review Checklist applicability guidelines and confirm with Department of Environment & Sustainability.

Complete pre-assessment with Checklist.

Attach a copy of the Checklist to planning deliverable (e.g., Project Definition Document).

Include the Checklist in bid documents.

Introduce project to attendees.

Discuss Pre-Assessment Checklist results.

ID opportunities to achieve Sustainability Goals.

Submit Pre-Assessment Checklist along with meeting minutes to Dept. of Environment & Sustainability.

Complete the Sustainability Goal Checklist.

Review Checklist at **Design Review Meeting**.

Submit 30% Design Checklist along with meeting minutes with any changes to goal achievement highlighted.

Chief Sustainability Officer / ASC reviews any changes to Checklist; schedule follow-up meeting if needed.

Update Sustainability Goal Checklist.

Review Checklist at **Design Review Meeting**.

Submit 60% Design Checklist along with any changes to goal achievement highlighted, plus meeting minutes.

Chief Sustainability Officer / ASC reviews and changes to Checklist; schedule follow up meeting if needed.

Update Sustainability Goal Checklist.

Review Checklist at **Final Design Review Meeting**.

Submit 90% Design Checklist along with any changes to goal achievement highlighted, plus meeting minutes.

Chief Sustainability Officer / ASC reviews and changes to Checklist; schedule follow up meeting if needed.

Conduct Sustainability Review Meeting with awarded construction contractor.

Review and approve required submittals for construction phase.

Submit complete **Post-Construction Checklist.**

6. CHECKLIST APPLICABILITY

As with the COA's Green Build Policy, the Checklist applies to all AUS capital improvement projects (CIPs) and third party financed and/or delivered (such as public-private partnerships, also known as P3s) projects that meet the thresholds defined in **Table 3.** Other airport projects that are not covered by this manual and checklist are encouraged to pursue applicable sustainability ratings, and meet the intent of these goals where possible.

CIP projects are encouraged to consider, utilize and pursue higher levels of sustainability, ratings and performance in addition to the requirements of this policy. The requirements stated herein shall not supersede code requirements or other legal agreements

Table 3: Sustainability Goals Project Applicability

Type of Project	Description	Examples
New Construction – Vertical construction (Occupied Buildings/Facilities) over XX SF or $XX.	Projects consisting of buildings or facilities that that once complete will be occupied by employees and passengers	New Arrivals-Departures Hall, New Central Utility Plant (CUP)
New Construction – Vertical construction (Unoccupied Buildings/Facilities) over XX SF or $XX.	Projects consisting of buildings or facilities that that once complete would not have regular occupants (without permanent staff)	Pump Stations, Lighting Vaults, and Fuel Stations
New Construction – Horizontal construction over XX SF or $XX.	Projects consisting of permanent infrastructure that does not include structures or buildings.	New Midfield taxiway, Utility Connections, Roadway Improvements
Major Renovations	Projects that include renovated areas of at least 4,000 sq ft or with a construction cost greater than $750,000 or include the replacement of HVAC, electrical, plumbing, significant envelope modifications, and/or major interior renovations.	BJT Optimization, Parking Garage Renovations
ADDITIONAL		

Although sustainability practices are relevant to both operations and planning, this manual and checklist place greater emphasis on the design and construction phases. The expectation is that achievements in design and construction will contribute to the broader COA and AUS goal to lead the way in conserving energy, water and other natural resources, promoting human health, safety and wellness,and ensuring a high-quality built environment.

6.1. EXEMPTIONS

Projects can apply for exemption to be approved by the ASC where the use of the checklist is not feasible (e.g., due to conflicts with airport operations). Design teams must submit justification to the ASC for the exemption, and how sustainable features will be incorporated to the maximum extent feasible. The ASC will evaluate the justification on a per criteria basis and issue issue approval or disapproval for exemption.

7. PRE-ASSESSMENT CHECKLIST – TO BE FILLED OUT IN PLANNING/PRE-DESIGN PHASE.

PROJECT TITLE: Click or tap here to enter text.

Project Description:

PROJECT MANAGER: Click or tap here to enter text.

PROJECT CHAMPION: Click or tap here to enter text.

DATE: Click or tap to enter a date.

Goal 1: Energy Conservation						
		Applicable		Achievable		Explanation
		Y	N	Y	N	
A	Minimum 15% reduction in electrical consumption over base case using current City of Austin Energy Code (Vertical Construction)	☐	☐	☐	☐	Click or tap here to enter text.

B	On-site solar panels (Overall AUS goal for 7 MW new, onsite solar by 2034)	☐	☐	☐	☐	Click or tap here to enter text.
Notes:						

Goal 2: Water Conservation						
		Applicable		**Achievable**		**Explanation**
		Y	**N**	**Y**	**N**	
A	Auxiliary water collection and use opportunities (condensate,rainwater, etc.) above current code requirements.	☐	☐	☐	☐	Click or tap here to enter text.
B	Design using 100% non-potable water as the primary source for: irrigation, cooling, toilet / urinal flushing, and other significant non-potable water uses identified in the water balance calculator.	☐	☐	☐	☐	Click or tap here to enter text.
C	Landscaping adheres to Austin Water guidelines and AUS water usage policies.	☐	☐	☐	☐	Click or tap here to enter text.
D	Convert existing irrigation systems from potable uses to non-potable uses.	☐	☐	☐	☐	Click or tap here to enter text.
E	Uses 100% non-potable water during construction for dust control.	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

Goal 3: Carbon Neutrality						
		Applicable		Achievable		Explanation
		Y	N	Y	N	
A	Reduce embodied carbon by 40% as defined by the COA Climate Equity Action Plan.	☐	☐	☐	☐	Click or tap here to enter text.
B	Design for net-zero operations as defined by the COA's Climate Equity Action Plan. (Vertical Construction)	☐	☐	☐	☐	Click or tap here to enter text.
C	100% Carbon Neutral power to new aircraft gates and hardstand passenger operations.	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

Goal 4: Charging Infrastructure						
		Applicable		Achievable		Explanation
		Y	N	Y	N	
A	New gates designed to include equivalent of one (1) fast Ground Support Equipment (GSE) charger (2 charge points) per gate.	☐	☐	☐	☐	Click or tap here to enter text.
B	Public parking projects incorporate infrastructure for 10% of public parking spaces to have charging capability.	☐	☐	☐	☐	Click or tap here to enter text.
C	Consideration to include Level 3 chargers.	☐	☐	☐	☐	Click or tap here to enter text.

Notes: Click or tap here to enter text.

Goal 5: Waste Diversion						
		Applicable		Achievable		Explanation
		Y	N	Y	N	
A	Minimum 75% diversion rate for construction & demolition waste achieved.	☐	☐	☐	☐	Click or tap here to enter text.
B	Conduct detailed waste stream analysis with estimated quantities, capture, storage, disposal, bulk management, logistics, and efficiency improvements.	☐	☐	☐	☐	Click or tap here to enter text.
C	10-gate threshold for trash, recycling, compost transfer points achieved (Terminals Only).	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

Goal 6: Resiliency & Adaptability						
		Applicable		Achievable		Explanation
		Y	N	Y	N	
A	Solutions for accessing potable water supply (min. of 2 days) during periods of disruption have been identified.	☐	☐	☐	☐	Click or tap here to enter text.

B	Opportunities for integrated microgrid strategies have been evaluated.	☐	☐	☐	☐	Click or tap here to enter text.
C	Climate-risk evaluation has been conducted.	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

Goal 7: Green Development						
		Applicable		**Achievable**		**Explanation**
		Y	**N**	**Y**	**N**	
A	4-star AEGB Rating minimum (Vertical Construction)	☐	☐	☐	☐	Click or tap here to enter text.
B	ISI Envision Gold Verification (Infrastructure)	☐	☐	☐	☐	Click or tap here to enter text.
C	Parksmart Certification Level Gold (Parking Garages)	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

Goal 8: Passenger Experience						
		Applicable		**Achievable**		**Explanation**
		Y	**N**	**Y**	**N**	
A	Equitable and accessible designs and services for all passengers.	☐	☐	☐	☐	Click or tap here to enter text.

B	Incorporates local Austin and Central Texas themes and experiences.	☐	☐	☐	☐	Click or tap here to enter text.
C	Promotes art and music.	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

Goal 9: Community Trust						
		Applicable		Achievable		Explanation
		Y	N	Y	N	
A	Consider potential impacts on the community (e.g., air quality, noise, vibration, light pollution, safety, wayfinding) and ensure airport staff and stakeholders act in their best interest accordingly during construction.	☐	☐	☐	☐	Click or tap here to enter text.
B	Support the surrounding communities during design, construction, and/or operation by creating jobs, offering job trainings and resources, and establishing educational partnerships.	☐	☐	☐	☐	Click or tap here to enter text.
C	Proactive communiation about projects, emphasizing their environmental and sustainability initiatives/efforts and project updates and timelines.	☐	☐	☐	☐	Click or tap here to enter text.
Notes: Click or tap here to enter text.						

X

Project Manager

X

Environmental Review Staff

X

Project Champion

8. SUSTAINABILITY GOAL CHECKLIST – TO BE FILLED OUT AT EACH DESIGN/CONSTRUCTION MILESTONE.

PROJECT TITLE: Click or tap here to enter text.

Project Description:

PROJECT MANAGER: Click or tap here to enter text.

DATE: Click or tap to enter a date.

PROJECT PHASE SUBMITTAL

	Planning/ Pre-Design	30% Design	60% Design	90% Design	Construction	Post-Construction
Submission Date	Click or tap to enter a date.	Click or tap to enter a date.	Click or tap to enter a date.	Click or tap to enter a date.	Click or tap to enter a date.	Click or tap to enter a date.

ESTIMATED CONSTRUCTION DATE: Click or tap here to enter text.

ESTIMATED CONSTRUCTION DURATION: Click or tap here to enter text.

Goal 1: Energy Conservation

Target 1A: Vertical AEDP Projects to achieve a minimum 15% reduction in electrical consumption over the base case using the current City of Austin (COA) energy code.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 1A1: Track energy-related credits as part of the Austin Energy Green Building (AEGB) rating system.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 1A2: Complete a Return on Investment (ROI) analysis for proposed significant energy efficiency measures.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 1B		**Applicable**	**Metric on Track**	**Need to Elevate**
1B: On-site solar panels (Overall AUS goal for 7 MW new, onsite solar by 2034)		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 2: Water Conservation

Target 2A: Evaluate all projects for auxiliary water collection and use opportunities (condensate,rainwater, etc.) above current code requirements.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 2A1: Complete a water balance using Austin Water Utility (AWU)-approved methodologies for each project.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 2A2: Complete Return on Investments (ROIs) for auxiliary water collection and use opportunities.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 2B		**Applicable**	**Metric on Track**	**Need to Elevate**
2B: All projects to be designed using 100% non-potable water as the primary source for: irrigation, cooling, toilet / urinal flushing, and other significant non-potable water uses identified in the water balance calculator.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Target 2C		Applicable	Metric on Track	Need to Elevate
2C: All landscape projects should adhere to Austin Water guidelines and AUS water usage policies by including innovative approaches to reduce all water usage.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 2D: Evaluate all projects for opportunities to convert existing irrigation systems from potable to non-potable water sources.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 2D1: Provide documentation, Return on Investments (ROIs), and recommendations.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 2E		**Applicable**	**Metric on Track**	**Need to Elevate**
2E: Use 100% non-potable water (when available) for dust control during projects.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 3: Carbon Neutrality

Target 3A: Reduce embodied carbon by 40% as defined by the COA Climate Equity Action Plan.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 3A1: Perform a building Life Cycle Analysis (LCA) for all projects.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 3B: Design all vertical structures to have net-zero operations as defined by the City of Austin's Climate Equity Action Plan.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 3B1: Perform natural gas avoidance study / Return on Investments (ROIs) for each project in pre-design.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 3C: Provide 100% carbon neutral power to all new aircraft gates and hardstand passengers operations.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 3C1: Track and report Return on Investments (ROIs) with fewer than ten (10) years.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 4: Charging Infrastructure

Target 4A		Applicable	Metric on Track	Need to Elevate
4A: New gates should be designed to include the equivalent of one (1) fast Ground Support Equipment (GSE) charger (2 charge points) per gate.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Target 4B		Applicable	Metric on Track	Need to Elevate
4B: Public parking projects to incorporate infrastructure for 10% of spaces to have charging capability.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Target 4C		Applicable	Metric on Track	Need to Elevate
4C: Evaluate the feasibility of installing additional level 3 chargers on campus.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 5: Waste Diversion

Target 5A: Projects to achieve minimum 75% diversion rate for construction and demolition (C&D) waste.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 5A1: Project teams to track waste during construction and demolition waste and report to the AUS Environmental Division.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 5B: During early design, all projects will perform a waste stream analysis that includes estimated quantities, capture, storage, disposal, bulk management, logistics, and efficiency improvements.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 5B1: Provide management alternatives and costs to AUS Sustainability Committee.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 5C		**Applicable**	**Metric on Track**	**Need to Elevate**
5C: Establish a ten (10) gate threshold for trash, recycling, and compost transfer points (chute rooms or equivalent) in the new terminal facilities.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 6: Resiliency & Adaptability

Target 6A: Identify alternative solutions for accessing potable water (a minimum 2-day supply) during possible disruptions of water services including a plan for water distribution that prioritizes concessions and airlines.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 6A1: Recommend solutions including costs and operational logistics.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 6B: Evaluate an integrated microgrid strategy for AUS.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 6B1: Explore incorporating Resiliency as a Service (RAAS) in collaboration with Austin Energy, solar panels, battery storage, etc. including associated costs.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 6C: Conduct climate-risk evaluations on all projects to ensure adaptability.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 6C1: Each project should be evaluated on: extreme winter weather, tornadoes / straight line winds, extreme flooding, extreme heat, wildfire, and drought.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 7: Green Development

Target 7A: All vertical projects to achieve a minimum of a 4-star Austin Energy Green Building (AEGB) rating **Target 7B:** All infrastructure projects to achieve a Gold verification through the Envision framework and verification system. **Target 7C:** All parking garages to achieve Gold certification as part of the Parksmart certification system.	**Applicable**	**Metric on Track**	**Need to Elevate**
Applicable rating system is: Click or tap here to enter text.	Choose an item.	Choose an item.	Choose an item.

Phase	**Actions/Notes**	**Expected Documentation/Outcomes**
Planning/Pre-Design		
30% Design		
60% Design		
90% Design		
Construction		
Post-Construction		

Goal 8: Passenger Experience

Target 8A: Improve the passenger experience at AUS by increasing equitable and accessible designs and services for all passengers.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 8A1: Designs should meet and exceed ADA requirements using Universal Design and Universal Accessibility principles.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 8A2: Design spaces to be useful, accessible, and comfortable for people with visible and non-visible disabilities (e.g., features and service options that require little physical effort such as automated doors).		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 8A3: Design to reduce safety hazards of employees and passengers (e.g., clear directional signage).		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Target 8B: Incorporate local Austin and Central Texas themes and experiences throughout the passenger journey.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 8B1: Partner with local vendors, concessionaires, and business owners when selecting and assembling products, materials, vegetation, decoration, and other elements that will be installed or used by passengers throughout the airport.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 8B2: Use local and indigenous materials and plants.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 8B3: Educate passengers about our local vendors, partners, and materials through signage or visual aids.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Target 8C: Highlight and promote art and music throughout the passenger journey.		Applicable	Metric on Track	Need to Elevate
Metric 8C1: Design interior and exterior spaces that can easily incorporate the COA Art in Public Places Program and the AUS Changing Exhibits Art Program, prioritizing local artists.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 8C2: Incorporate multiculturalism aspects during the specification process to promote diversity and inclusion through the use of local craftsmanship and artistically-enhanced products.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 8C3: Increase the number of artistic experiences (visually, aurally, and tactilely) offered to passengers.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Goal 9: Community Trust

Target 9A: Thoughtfully consider potential impacts on the community (e.g., air quality, noise, vibration, light pollution, safety, wayfinding) and ensure airport staff and stakeholders act in their best interest accordingly during construction.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 9A1: Coordinate with AUS Department of Aviation Divisions to evaluate potential community effect(s) of each project, and support them in reducing effects (transportation, noise, water, air, land use, energy, equity) until project completion.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 9A2: Propose setting up a communications system to easily and equitably receive and respond to feedback from the community (via Department of Aviation staff) before and during construction.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				

Target 9B: Support the surrounding communities during design, construction, and/or operation by creating jobs, offering job trainings and resources, and establishing educational partnerships.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 9B1: Track and document the number of jobs created (including type and duration) as a result of each project.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Metric 9B2: Track workforce training initiatives (i.e. apprenticeships, internships), community outreach, and educational activities for each project.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				
Target 9C: Proactively communicate about projects, emphasizing their environmental and sustainability initiatives/efforts and project updates and timelines.		**Applicable**	**Metric on Track**	**Need to Elevate**
Metric 9C1: Team project managers to report key sustainability metrics throughout projects to AUS.		Choose an item.	Choose an item.	Choose an item.
Phase	**Actions/Notes**	**Expected Documentation/Outcomes**		
Planning/Pre-Design				
30% Design				
60% Design				
90% Design				
Construction				
Post-Construction				