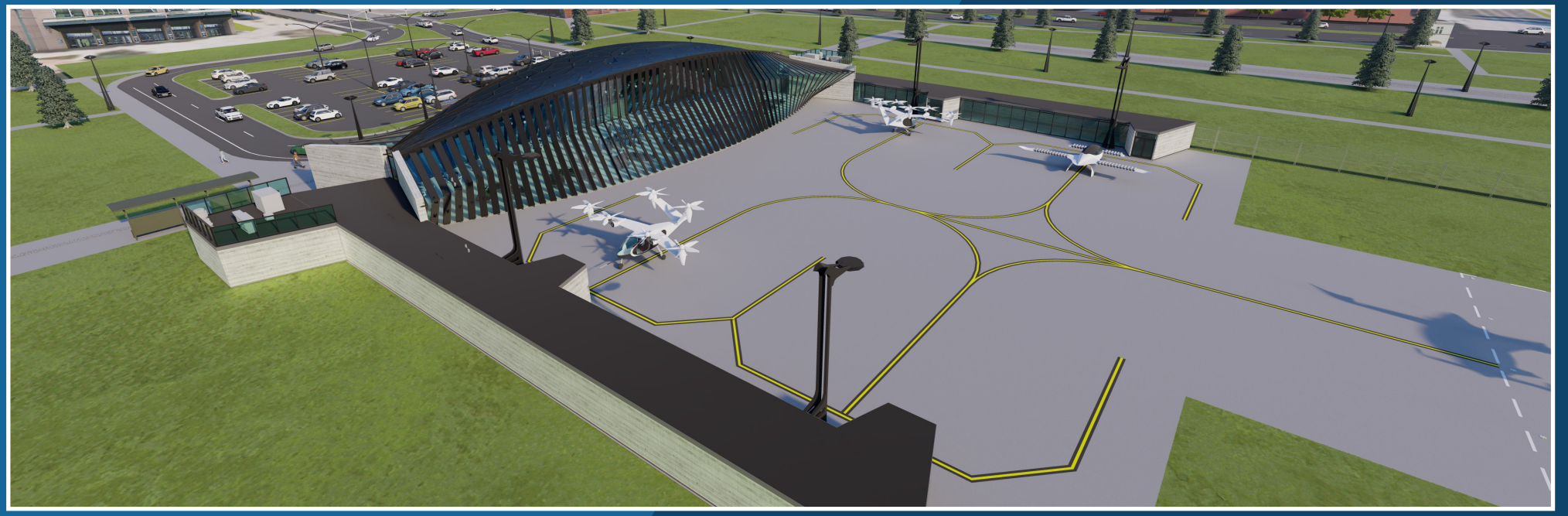
Statement of Qualifications

CONTRACT NO.: 4400032348

IDIQ CONTRACT FOR STRATEGIC PLAN FOR LOUISIANA ADVANCED AIR MOBILITY STATEWIDE

SUBMITTED TO: LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (LADOTD)



WOOLPERT

JUNE 13, 2025

DOTD FORM: 24-102

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement	IDIQ CONTRACT FOR STRATEGIC PLAN FOR LOUISIANA ADVANCED AIR MOBILITY STATEWIDE
2. Contract Number(s) as shown in the advertisement	4400032348
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	WOOLPERT, INC.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0004611
6. Prime consultant mailing address	4454 IDEA CENTER BLVD., SUITE 100 DAYTON, OH 454301500
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	4454 IDEA CENTER BLVD., SUITE 100 DAYTON, OH 454301500
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Zach Hazzard, CM Aviation Planner, Project Manager 513.297.3304 zach.hazzard@woolpert.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Zach Shuman, CM Practice Leader, Aviation Delivery National 303.949.5886 zach.shuman@woolpert.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. **Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.**	 Signature above shall be the same person listed in Section 9: 05/28/2025 Date:
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	**Firm(s):** **Firm(s)' %:** No DBE Goal is included in this solicitation.

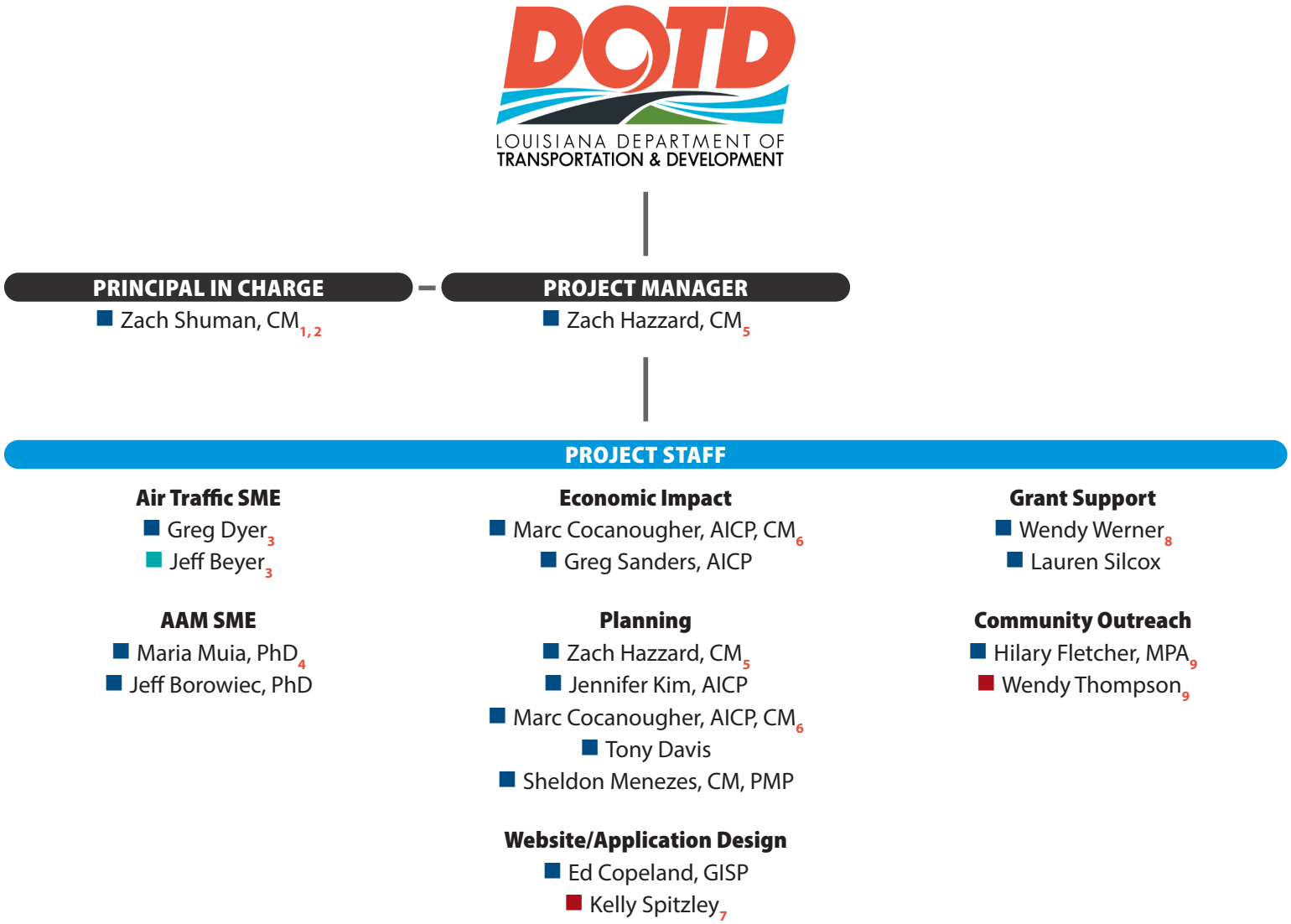
12. Discipline Table:

Discipline(s)	% of Overall Contract	Woolpert, Inc. (Prime)	Thales USA, Inc. (Sub-consultant)	HDR Engineering, Inc. (Sub-consultant)	Each discipline must total to 100%
Planning	65%	65%	10%	15%	100%
Data Collection	5%	55%	15%	15%	100%
Other (Community Engagement)	15%	80%	-	10%	100%
Other (Web Design)	10%	50%	-	50%	100%
Other (Grant Writing Services)	5%	50%	50%	-	100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	**100%**	70%	15%	15%	--------

13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Woolpert, Inc.	Accountant	2	16
	CADD Technician	2	84
	Economist	1	5
	Engineer	6	112
	Graphics	2	12
	Other (Air Traffic Controller/NAVAID Specialist)	3	8
	Other (Community Engagement)	2	12
	Other (Website/Application Designer)	4	16
	Planner	7	48
	Principal	2	24
Thales USA, Inc.	Engineer	1	3
HDR Engineering, Inc.	Economist	1	16
	Engineer - Other	1	52
	Other (Communications)	3	5
	Planner	1	17
	Supervisor - Other	1	12

14. Organizational Chart:



Legend

- Woolpert, Inc.
- HDR Engineering, Inc.
- Thales USA, Inc.

MPR No.

15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Zach Shuman, CM	Woolpert, Inc.	N/A	N/A	N/A
2	Zach Shuman, CM	Woolpert, Inc.	N/A	N/A	N/A
3	Greg Dyer	Woolpert, Inc.	N/A	N/A	N/A
	Jeff Beyer	Thales USA, Inc.	N/A	N/A	N/A
4	Maria Muia, PhD	Woolpert, Inc.	N/A	N/A	N/A
5	Zach Hazzard, CM	Woolpert, Inc.	N/A	N/A	N/A
6	Marc Cocanougher, AICP, CM	Woolpert, Inc.	N/A	N/A	N/A
7	Kelly Spitzley	HDR Engineering, Inc.	N/A	N/A	N/A
8	Wendy Werner	Woolpert, Inc.	N/A	N/A	N/A
9	Hilary Fletcher, MPA	Woolpert, Inc.	N/A	N/A	N/A
	Wendy Thompson	HDR Engineering, Inc.	N/A	N/A	N/A

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Zach Shuman, CM	**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	6
TITLE	Principal in Charge	**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	4

DEGREE(S) / YEARS / SPECIALIZATION	Juris Masters / 2025 / Legal Risk Management, Contracting and Compliance Bachelor of Science / 2018 / Political Science Minor / 2018 / Economics Certificate / 2018 / Application of Unmanned Aircraft Systems Certificate / 2018 / Emergency Management and Homeland Security
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	Certificate, Remote Pilot: 4167981 / National / No Expiration Certified Member (CM), AAAE: National / No Expiration
YEAR REGISTERED 2018 **DISCIPLINE**	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	**MPR Nos. 1 and 2**

As the national aviation practice leader, Zach manages Woolpert's national aviation national business, research and development and strategic planning. Beyond traditional planning, Zach specializes in the exploration of unmanned aircraft systems (UAS) applications and advanced air mobility (AAM). Along with integrating UAS and piloted aircraft operations, Zach assists clients with navigating their aviation policies, system planning, helping them certify compliance with service guidance, development of policy and procedures, and Federal Aviation Administration (FAA) regulations.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
09/20–Ongoing	**Vertiport Design for eVTOL, FAA—Atlantic City, NJ.** *Program Director* responsible for overseeing all research efforts and the development of the new advisory circular. Woolpert was selected to study and develop recommendations for vertiport design standards for vertical takeoff and landing aircraft, optionally piloted aircraft and unmanned aircraft. Woolpert leads all field testing as it relates to eVTOL interaction with the ground including landing precision, downwash and outwash and taxi-turn radius. Additionally, Woolpert has developed capacity models, modeling and simulation and supported the development of Engineering Brief 105.
10/22–Ongoing	**AAM Planning, FDOT—Statewide FL.** *Program Director* responsible for the overall execution of the project. Woolpert is engaged with the Florida Department of Transportation (FDOT) Aviation Office (AO) on all planning for AAM project. The team is helping to create a long-term plan that allow the AAM market to emerge. Woolpert has developed the AAM Working Group, roadmap strategic plan and now is updating the land use compatibility guidebook to incorporate AAM. Woolpert continues to manage the engagement with nearly 75 entities across the state.
10/22–02/24	**AAM Study, GDOT—Statewide GA.** *Program Director* for the Georgia Department of Transportation's (GDOT) Study on Advanced Air Mobility. The study was a comprehensive effort on AAM that researched nationwide efforts on AAM, use cases for AAM in Georgia, best practices for landing area safety and regulation, initiatives to advance AAM in Georgia, an assessment of the potential economic impact of AAM, an inventory of heliports in Georgia and their adaptability to AAM, an overview of airports and AAM, and an overview of charging infrastructure and cost estimates to install chargers at Georgia airports.
05/22–11/24	**AAM Infrastructure Study, AK DOT&PF—Statewide AK.** *AAM Integration Subject Matter Expert* for this project. Woolpert was selected to provide a gap analysis for determining infrastructure needs to support AAM in Alaska. The scope of work for this contract was to conduct an inventory of existing infrastructure, beginning with the previous Alaska State Aviation System Plan as the foundational environment. Woolpert also incorporated goals from the FAA Alaska Aviation Safety Initiative (FAASI) and the recent U.S. Government Accountability Report, "Transforming Aviation—Stakeholder Identified Issues to Address for 'Advanced Air Mobility.'"

11/23–Ongoing	**Strategic Plan for AAM and Site Selection Analysis, MDAD—Miami-Dade County, FL.** *Program Director* on the Strategic Plan, which included identifying use cases, timelines, milestones, and goals for the Miami-Dade Aviation Department (MDAD) airports as they relate to AAM. Zach also supported the concurrent site selection study for Miami International Airport, which identified six potential vertiport site locations and measured their merits against a host of airport design, airspace, wake turbulence, and practical considerations to identify top candidates for siting.
06/20–11/21	**PARAS Airport Response to UAS Threats, National Safe Skies Alliance—Nationwide U.S.** *Project Manager and Principal Investigator* leading the creation of a guidebook and advisory board for airports response to UAS threats. The objective of this research project is to produce guidance to assist airports in working with multiple stakeholders to plan for and respond to UAS threats. The final deliverable will comprise of a set of considerations and strategies for planning, training, assessing, responding, and returning to normal operations for UAS threats. From the final deliverable, an airport sponsor can construct a uniquely suited response plan and procedures for their facility. The final products will also include useful guidance and tools for airports as they consider infrastructure investments in detection systems and community engagement.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Greg Dyer	**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	8
TITLE	Air Traffic Subject Matter Expert	**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	33
DEGREE(S) / YEARS / SPECIALIZATION	Bachelor of Arts / 2012 / Public Administration		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	N/A		
YEAR REGISTERED N/A **DISCIPLINE**	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	**MPR No. 3**		

Greg brings over four decades of FAA experience to Woolpert, where he supports clients with airspace analysis, unmanned aircraft systems, and capacity optimization. He has led major modernization and navigation projects, including performance-based navigation and BVLOS initiatives, and has contributed to the design of airspace structures for AAM. Greg also co-led an AAAE working group on eVTOL integration and continues to support high-demand airport operations and vertiport planning.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
05/22–11/24	**AAM Infrastructure Study, AK DOT&PF—Statewide AK.** Greg led a project as the *Airspace Subject Matter Expert* for the state of Alaska to assess the current inventory of aviation infrastructure including navigational aids, radar, and communications. The report included a shortfall analysis of the current infrastructure. The next phase is to formulate detailed plans to enhance aviation services and advocate with the FAA and stakeholders to build support for those enhancements.
09/20–Ongoing	**Vertiport Design for eVTOL, FAA—Atlantic City, NJ.** As the *Airspace Subject Matter Expert*, Greg was responsible for research team collaboration, literature development and review, and conceptual testing planning. Woolpert was selected to study and develop recommendations for vertiport design standards for eVTOL aircraft including standard category aircraft (<7,000 lbs. and <9 passengers), optionally piloted aircraft and unmanned aircraft. Woolpert is modeling new recommendations after the heliport design AC 150/5390-2C, which was updated in 2012, and reviewing new and emerging technological, infrastructure, and operating models for inclusion, as appropriate. The resulting analysis and design recommendations will be summarized in a draft Engineering Brief to supplement the heliport design AC 150/5390-2C, and ultimately become the foundation for an updated vertiport specific series of safety and design standards.
04/21–04/22	**North Dakota Vantis Support, State of North Dakota—Various Locations, ND.** As the *Airspace Subject Matter Expert*, Greg led a team of Woolpert personnel to support Thales and the North Dakota Vantis program. As Vantis worked to create a state-wide Beyond Visual Line of Sight (BVLOS) network for UAS, Woolpert's role was to design and oversee construction of radar sites and communications sites. Our support included the integration design of the components of each site including radar, digital communications, ADS-B, power supplies and structural work. This work also included completing the necessary FCC permitting, tower registrations, environmental reviews, and tribal coordination processes.
06/94–01/17	**Denver ARTCC, FAA—Denver, CO.** Greg was the *FAA lead* for the Colorado WAM and Denver ARTCC segment of the Denver RNAV projects. He spent 11 years as the Airspace and Procedures Manager at Denver ARTCC, blending radar and non-radar airspace, and is an expert in connecting various surveillance capabilities to air traffic control procedures to assure safety and optimize efficiency. As Rocky Mountain District Manager, Greg oversaw the terminal facilities in Colorado, Montana, Utah, and Wyoming, including 20 ATCTs and TRACON. He was also an FAA Safety Management System Expert, responsible for a wide variety of Safety Risk Management Documents and Decision letters. He wrote air traffic control sections of Safety Risk Management Documents for multilateration and for use of cameras for line-of-sight extension at Aspen-Pitkin County Airport's ATCT.

04/23–Ongoing	**NAVAIDs and AAM Study, Commonwealth of Virginia—Statewide VA.** As the *Airspace Subject Matter Expert*, Greg is leading a Woolpert study for the Commonwealth of Virginia to evaluate all NAVAIDs owned and maintained by the Commonwealth, comparing it to FAA long-term plans for NAVAIDS in the area and recommending strategies to modernize the Commonwealth-owned NAVAIDS as well as provide initial enabling projects for AAM.
10/20–12/21	**AMA Airport Special Use Airspace, AMA—Amarillo, TX.** Greg, as the *Airspace Subject Matter Expert*, was tasked with airspace planning, requirements review, roadmap development, meeting with the airport, and concept of operations drafting. Woolpert assisted Amarillo International Airport (AMA) in developing a plan, engaging stakeholders, and documenting the steps required to receive approval for a designated special use airspace for their tenants, specifically for UAS. The team reviewed appropriate FAA policies and Advisory Circulars; engaged local stakeholders and the FAA; created a planning document that included airway structure, impacts on departure and arrival routes, potential environmental concerns, and local surface and land-use impacts; and developed a detailed mission plan for airspace use and operation.

16. Staff Experience:

FIRM EMPLOYED BY: **Thales USA, Inc.**					
NAME	Jeff Beyer		**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	4	
TITLE	Air Traffic Subject Matter Expert		**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	20	
DEGREE(S) / YEARS / SPECIALIZATION			Master of Science / 2001 / Electrical Engineering Bachelor of Science / 2000 / Electrical Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			N/A		
YEAR REGISTERED	N/A	**DISCIPLINE**	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**MPR No. 3**		
Jeff is responsible for analyzing customer needs and designing solutions that meet requirements. He will lead design, implementation, and analyze system requirements and changes.					

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
04/21–Present	**Project Design Authority, Thales.** As part of Thales Airspace Mobility Solutions (AMS) team, Jeff is a *Technical Leader* on Digital Aviation bid and project teams. He is responsible for analyzing customer needs and architecting solutions that meet customer requirements. To confirm Thales's products align with the latest standards, Jeff participates in industry working groups and organizations including RTCA, Eurocae, and ICAO.
04/21–Present	**Vantis BVLOS Network, State of North Dakota—Statewide ND.** As the *Lead Systems Architect* for North Dakota's Beyond Visual Line of Sight (BVLOS) Network, Vantis, Jeff led the design and implementation of service offerings that support BVLOS operations. He conducted in-depth system safety analyses to facilitate the approval of BVLOS waivers by the FAA and evaluated cybersecurity requirements essential for integrating FAA radar data into the network.
06/06–04/21	**Spaced-Based ADS-B.** Jeff led *Systems Safety Engineering* for the first commercial aviation-grade surveillance service using space-based ADS-B. He analyzed the initial system architecture and introduced continuity and integrity improvements by applying industry best practices and tools such as Fault Tree Analyses (FTAs) and Failure Modes and Effects Analyses (FMEAs). His work included evaluating system changes in accordance with ICAO safety methodologies and articulating the design assurance of safety-critical software components.
06/06–04/21	**Surveillance and Broadcast Services (ADS-B).** In support of the FAA's SBS program, Jeff served as a *SME* in various engineering roles spanning systems, software, and testing. He analyzed requirements, designed algorithms, and developed software for the radio segment. Additionally, he performed integration and testing of multiple new features and created tools to automate design qualification and testing processes.
06/06–04/21	**Datacomm Tower Automation Platform.** Jeff *developed statistical reporting tools* for the U.S. FAA's DTAP program. These tools consolidated data from multiple sources into a unified monthly report for the FAA. His responsibilities included analyzing requirements and developing analysis tools using Python.
06/01–05/06	**Precision Runway Monitoring.** As the *Lead Systems Engineer* for the PRM system at Detroit Metropolitan Airport (DTW), Jeff was responsible for system design, integration, and testing, confirming the system met stringent performance and safety standards.

06/06–04/21	**Principal Consultant, Clarius, LLC.** For 15 years, Jeff served as *Principal Consultant* providing professional engineering expertise to clients nationally and internationally to develop, commission, and maintain next generation air traffic management systems. He is highly skilled at designing decision support systems that integrate disparate data from a variety of sources improving the scale, efficiency, and safety of operations. He is also skilled at creating statistical analysis techniques and algorithms to forecast and measure system performance.
06/01–05/06	**Systems Engineer and Technical Lead, Sensis Corporation.** As a *Technical Lead*, Jeff led a group of engineers responsible for the development of next generation distributed surveillance including multilateration and ADS-B. He also Technical Lead on the U.S. FAA's effort to evaluate wide-area multilateration for precision runway monitoring at Lambert-St. Louis International Airport. Other notable projects during his career with Sensis include serving as Systems Engineering lead on a team that rapidly developed the Stand-Alone Traffic Information Service (TIS) Server; developing a patented multilateration algorithm enhancement; and as Technical Lead for the implementation of A-SMGCS at some of the world's busiest airports including Charles de Gaulle Airport, Schiphol Airport, and Zurich Airport.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**					
NAME	Maria Muia, PhD			**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	15
TITLE	Advanced Air Mobility Subject Matter Expert			**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	20
DEGREE(S) / YEARS / SPECIALIZATION			Doctor of Philosophy / 2000 / Management Master of Science / 1990 / Management Bachelor of Science / 1986 / Aviation Administration		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			N/A		
YEAR REGISTERED	N/A	**DISCIPLINE**	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**MPR No. 4**		

Dr. Muia is a senior aviation research specialist with a strong foundation in aviation planning, public sector administration, and nearly 1,000 flight hours as a certified private pilot. She has led projects involving airport master plans, forecasts, and environmental assessments, and now focuses on aviation research. Notably, she served as Principal Investigator for ACRP Report 129, delivering the industry's first comprehensive evaluation of traffic estimation methods at non-towered airports. She is also the lead researcher for the FAA on vertiport design and AAM infrastructure.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
09/20–Ongoing	**Vertiport Design for eVTOL, FAA—Atlantic City, NJ.** *Lead Researcher* responsible for collecting, organizing, and analyzing data, writing reports, and presenting results to the client. Woolpert was selected to study and develop recommendations for vertiport design standards for vertical takeoff and landing aircraft including standard category aircraft (<7,000 lbs and <9 passengers), optionally piloted aircraft, and unmanned aircraft. Woolpert will model new recommendations after the heliport design AC 150/5390-2C, which was updated in 2012, and review new and emerging technological, infrastructure, and operating models for inclusion, as appropriate. The resulting analysis and design recommendations from the study will be summarized in a draft Engineering Brief to supplement the heliport design AC 150/5390-2C, and ultimately become the foundation for and updated vertiport specific series of safety and design standards.
10/22–Ongoing	**AAM Planning, FDOT—Statewide FL.** *Lead Planner* responsible for developing FDOT's Advanced Air Mobility Roadmap. This included identifying the current state of the AAM industry related to Florida, researching concepts of operation for AAM, business use cases, federal policy and ground infrastructure requirements, and challenges in implementing AAM. From there a State AAM Policy Framework was developed that included land use compatibility, equity, connectivity, security, and safety. Maria also developed the methodology for Airport Compatibility Considerations to be used in developing compatibility reports and maps for 31 of Florida's airports. These reports were developed to assist communities in identifying incompatible locations for vertiports relative to legacy airports. The analysis includes five areas or uses around airports that are incompatible for siting an off-airport vertiport including airport traffic patterns, instrument approach procedures, controlled airspace, tall structures, and landfills.
10/22–02/24	**AAM Study, GDOT—Statewide GA**. *Advanced Air Mobility Subject Matter Expert* responsible for leading the development of AAM use cases, supported an inventory of potential aircraft landing areas, and prepared legislative and policy recommendations. The study was a comprehensive effort on AAM that researched nationwide efforts on AAM; use cases for AAM in Georgia; best practices for landing area safety and regulation; initiatives to advance AAM in Georgia; an assessment of the potential economic impact of AAM; an inventory of heliports in Georgia and their adaptability to AAM; an overview of airports and AAM; and an overview of charging infrastructure and cost estimates to install chargers at Georgia airports.

06/20–11/21	**PARAS Airport Response to UAS Threats, National Safe Skies Alliance—Nationwide U.S.** *Senior Research Analyst* responsible for collecting, organizing, and analyzing data, and writing reports. Woolpert was selected in 2020 to conduct PARAS 0031, Airport Response to UAS Threats. Utilizing a unique approach that included a field validation of the guidance, the Research Team developed a guidebook to assist airports in working with multiple stakeholders to plan for and respond to unapproved UAS flying in the airspace. To complete this project the Research Team developed an industry advisory board and worked alongside DFW to test strategies, and a full two-day airport response simulation was conducted utilizing a UAS detection system and UAS flying on airport property. This operation was one of the first of its kind to test and improve response strategies to the emerging technology.
04/20–03/22	**ACRP 07-18: Large UAS Airfield Design Guidelines Development, ACRP—Nationwide U.S.** *Senior Research Analyst* assisting in determining guidance for airport managers, UAS operators, consultants, and other stakeholders when incorporating large UAS operations into airport planning and design activities. Woolpert is developing guidelines for airfield design challenges, issues, and considerations for the unique operational needs of large UAS (currently greater than 55 lbs.). This includes considering safety and capacity at existing airfields of different types and sizes. The project will include a gap analysis related to existing standards and include guidelines on Integration vs. segregation of operational areas at airfields; airport master planning, including economic and cost considerations; UAS support infrastructure; environmental impacts, and approach surfaces and terminal airspace. The primary audience for this research consists of airport managers, planners, UAS operators, and other stakeholders.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Zach Hazzard, CM	**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	6
TITLE	Project Manager / Planning	**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	0

DEGREE(S) / YEARS / SPECIALIZATION			Bachelor of Arts / 2018 / Public Administration | Urban and Regional Planning
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			Certified Member (CM), AAAE: National / No Expiration
YEAR REGISTERED	2023	**DISCIPLINE**	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**MPR No. 5**

Zach is the lead planner and project manager for numerous state DOT and airport AAM contracts. He served as Woolpert's deputy project manager and lead planner for the GDOT AAM study and California DOT (Caltrans) initiative, and he currently leads and manages the FDOT AAM on-call contract. In addition to DOT contracts, Zach has supported AAM initiatives at both small and large airports and manages the on-call planning contract for AAM at Orlando International Airport.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/22–Ongoing	**AAM Planning, FDOT—Statewide FL.** *Project Manager, Planner, and Researcher* on the Florida DOT Aviation Office's AAM efforts, including a Roadmap, Policy Framework, and Best Practices for Local Governments. Lead author of the FDOT AAM Working Group Report, which includes legislative, regulatory, and advisory recommendations for the State of Florida to support the integration of AAM. Current project manager and lead planner for the implementation of FDOT AAM Working Group report, which includes an AAM Land Use Guidebook, tabletop planning exercises, and hosting the FDOT AAM Advisory Committee.
10/22–02/24	**AAM Study, GDOT—Statewide GA.** *Lead Planner* for the Georgia Department of Transportation's (GDOT) Study on Advanced Air Mobility. The study was a comprehensive effort on AAM that researched nationwide efforts on AAM; use cases for AAM in Georgia; best practices for landing area safety and regulation; initiatives to advance AAM in Georgia; an assessment of the potential economic impact of AAM; an inventory of heliports in Georgia and their adaptability to AAM; an overview of airports and AAM; and an overview of charging infrastructure and cost estimates to install chargers at Georgia airports.
11/23–Ongoing	**Strategic Plan for AAM and Site Selection Analysis, MDAD—Miami-Dade County, FL.** *Project Manager and Planner* who developed a strategic plan identifying use cases, timelines, milestones, and goals for the Miami-Dade Aviation Department (MDAD) airports. Zach also supported the concurrent site selection study for Miami International Airport, which identified six potential vertiport site locations and measured their merits against a host of airport design, airspace, wake turbulence, and practical considerations to identify top candidates for siting.
06/19–08/22	**Economic Impact Study, GDOT—Statewide GA.** *Associate Planner.* The team updated Georgia's Aviation Economic Impact Study of the state's 103 airports. Zach's work in project setup and data collection made certain that the report reflected the influence and impact unique aviation ecosystem because every facet of the system is influenced by the nation's busiest airport, Atlanta Hartsfield. Zach has been involved in project setup and in-field data collection.
07/23–09/24	**AAM Study, Caltrans—Statewide CA.** *Project Manager.* Zach led Woolpert's efforts to provide an inventory of eVTOL aircraft characteristics and infrastructure requirements and developed a report piecing together relevant Engineering Briefs and Advisory Circulars to form a comprehensive guide on vertiport design requirements. Woolpert also analyzed the regulatory and planning context for vertiport development within the California administrative code, then applied the planning and design methodology to align state requirements and proposed developments.
05/18–07/20	**System Plan and Economic Impact Study, ALDOT—Statewide AL.** *Associate Planner.* Zach was involved in various facets of the project, including drivetime mapping analysis, flight map data production, and report production.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Marc Cocanougher, AICP, CM	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	7
TITLE	Economic Impact / Planning	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	10

DEGREE(S) / YEARS / SPECIALIZATION			Bachelor of Arts / 2008 / Urban and Regional Planning
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			American Institute of Certified Planners (AICP): 029029 / National / No Expiration Certified Member (CM), AAAE: National / No Expiration
YEAR REGISTERED	2016; 2013	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**MPR No. 6**

Marc brings extensive experience in aviation planning, including system plans, master plans, air cargo studies, AAM studies, and economic impact analyses. He leads innovations in data collection, modeling, and economic impact tools. He has contributed to 38 studies across 26 states, with a strong focus on statewide airport system planning—bringing valuable insight to AAM efforts. Marc also led two national studies for Airports Council International on the economic impact of U.S. commercial aviation.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/22–02/24	**AAM Study, GDOT—Statewide GA.** *Planner* for the Georgia Department of Transportation's (GDOT) Study on Advanced Air Mobility. The study was a comprehensive effort on AAM that researched nationwide efforts on AAM, use cases for AAM in Georgia, best practices for landing area safety and regulation, initiatives to advance AAM in Georgia, an assessment of the potential economic impact of AAM, an inventory of heliports in Georgia and their adaptability to AAM, an overview of airports and AAM, and an overview of charging infrastructure and cost estimates to install chargers at Georgia airports.
06/19–12/20	**System Plan and Economic Impact Study, GDOT—Statewide GA.** *Senior Planner* that contributed to all phases, including coordinating data collection and data modeling efforts and developing an online calculator. GDOT's objectives were to document how the system (103 general aviation and commercial airports) had changed in demand, facilities, and services; generate a set of targets and projects to improve the system; and address identified gaps and deficiencies. The Georgia system was unique because every facet of the system was influenced by the nation's busiest airport, Atlanta Hartsfield.
05/18–02/22	**System Plan Update and Economic Impact Study, ALDOT Aeronautics Bureau—Statewide AL.** *Deputy Project Manager* responsible for conducting a statewide economic impact study for the Alabama Department of Transportation (ALDOT) Aeronautics Bureau while updating the airport system plan. The plan optimized resources, and the study provided an online calculator tool for 80 airports. Delivered an online GIS dashboard and video to communicate results. This led to the addition of a new regional airport to the NPIAS, replacing several underperforming airports.
01/13-12/15	**System Plan and Economic Impact Analysis, LA DOTD—Statewide LA.** As part of the Statewide Intermodal Transportation Plan Update, this project consisted of developing a statewide needs analysis of 30-year investments in the state's airport system to achieve the plan's vision, goals, and objectives. Marc served as the *Planner* and was responsible for multiple segments of the project, including conducting data collection and authoring a preliminary overview chapter of existing conditions. He produced an incentives analysis that outlined the various federal, state, and locally/airport funded incentive programs employed by airports throughout the country to sustain or attract air service and addressed specific issues in Louisiana. He was responsible for forecasting statewide enplanements, operations, and based aircraft at all system airports. The forecast section included an analysis of out-of-state passenger leakage and capture rates at Louisiana's commercial service airports.

01/13–12/14	**Economic Impact Study, Mississippi Department of Transportation Aeronautics—Statewide MS.** This project's main purpose was to determine the economic contributions of the state's airport system. Marc served as the *Primary Project Planner*, performing data collection, data management/ analysis, economic modeling, and authoring of the technical report. He also assisted in the production of individual airport summary brochures.
01/14–12/14	**Economic Impact of Runway Rehabilitation Scenarios, Hawkins Field Airport—Jackson, MS.** This project required assessing the economic impact of temporarily closing the primary runway at Hawkins Field for repairs. Hawkins serves as the reliever airport for the Jackson Medgar Wiley Evers International Airport. Several runway rehabilitation scenarios were considered to determine the best course of action while considering the potential negative consequences an extended runway closure would have on airport tenants, airport users, and the regional economy. Marc performed as the *Technical Lead* for this project, responsible for field data collection, data management, economic modeling, and development of the technical report.
01/08–12/14	**Economic Impact Study (Multiple Years), FDOT—Statewide FL.** As part of a multi-phase evaluation of Florida's 130 system airports, Marc served as a *Planner* supporting field data collection at both general aviation and commercial service airports. His responsibilities included conducting on-site visits, administering commercial passenger and business surveys, and analyzing data related to aviation manufacturing, air cargo, military aviation, education, and FAA involvement. He contributed to the development of economic impact analyses, including a base-by-base technical report on military aviation and a Phase 2 report on off-airport air cargo impacts. The study aimed to assess the current and projected economic contributions of Florida's aviation system through comprehensive research and stakeholder engagement.
03/19–04/21	**System Plan and Economic Impact Study, UDOT Aeronautics—Statewide UT.** Marc served as *Planner and Deputy Project Manager*, operating as a key player in all phases of the project—from data collection, economic impact modeling, and development of the online calculator. Woolpert conducted an Aviation System Plan and Statewide Economic Impact Study for UDOT. The study included a detailed assessment of the economic impact of 46 public airports, including Salt Lake City International (SLC)—marking the first such analysis of SLC in over a decade. The evaluation featured a unique online survey that collected more than 100,000 passenger responses, enabling a comprehensive analysis of visitor spending. Multiplier impacts were assessed using the IMPLAN model. In addition to SLC, the study evaluated the economic contributions of Utah's broader system of 45 airports, including SLC's reliever airports. By applying innovative and creative approaches to identify connections between the airport system and economic development, the team defined parameters for a decision-making tool designed to guide future funding and maximize return on investment.
11/20-09/22	**System Plan Update, Oklahoma Aeronautics Commission—Statewide OK.** Woolpert conducted an update to the Oklahoma Airport System Plan to build upon the state's existing system planning framework for 106 of the 108 system airports. The study framework focused on important outcomes of ensuring a balanced and viable system of airports by ultimately providing information to support sound decisions on investment needs. Marc served as a *Technical Lead* on several components of the system plan, including analyses of roles, facility and service objectives, costing, system performance, and recommendations. This project included several unique electronic deliverables, such as web-based GIS dashboards for client and public use.

16. Staff Experience:

FIRM EMPLOYED BY: **HDR Engineering, Inc.**			
NAME	Kelly Spitzley	**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	16
TITLE	Website/Application Design	**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	5
DEGREE(S) / YEARS / SPECIALIZATION	Master of Science / 2012 / Library and Information Science Bachelor of Arts / 2004 / English Language and Literature		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	N/A		
YEAR REGISTERED N/A	**DISCIPLINE** N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	**MPR No. 7**		

Kelly offers end-to-end services in user interface planning, design, and frontend development for websites and web applications, with experience spanning infrastructure sectors like transportation, water, and power across the U.S. She specializes in scalable solutions—from simple informational sites to complex, data-driven applications—and uses Figma for collaborative design. Kelly is proficient in HTML5, CSS3, PHP, SQL, JavaScript, and ConcreteCMS, and confirms accessibility compliance with WCAG 2.1 Level AA standards.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
12/24–Ongoing	**Destination Zero Deaths Website, LADOTD—LA.** *Website Planning and Technical Lead.* HDR was contracted to plan, design, and build a new Destination Zero Deaths website for LADOTD. Kelly led the planning and wireframing processes and provided server build, website installation, and launch services for the final website, which launched in May 2025, using ConcreteCMS, Figma, HTML/SCSS/JS. https://destinationzerodeaths.com/
12/23–Ongoing	**Prior Lake Spring Lake Watershed District Website—MN.** *Lead Designer and Developer.* HDR provided full website reorganization, planning, redesign, and redevelopment services to the Prior Lake Spring Lake Watershed District for their primary website. Kelly led each aspect of the project, from content reorganization, wireframing, prototyping, to full site development and content migration using ConcreteCMS, Figma, HTML/SCSS/JS. https://plslwd.org/
01/20–Ongoing	**Stormwater BMP Interpretive Signage and Website, City of Minneapolis—Minneapolis, MN.** *Lead Designer, Developer, and Project Manager.* HDR partnered with a local artist to plan, design, and develop artistic interpretive signage to highlight and explain 26 different stormwater management sites to the surrounding communities. The signs emphasize an accessible, artistic, highly visual approach to creating a common understanding and appreciation for the important work each BMP provides to the community – water quality improvement, flow control, and flood mitigation. The signs are paired with a mobile app-centric web experience that detects user location and is populated with relevant site-based information in a visual, informational, and interactive website. Kelly led the artistic development and messaging for each sign and designed and provided data and development services for the website using Figma, HTML/SCSS/JS, Leaflet. https://stormwater.minneapolismn.gov/
03/19–Ongoing	**Website Redesign, VDOT—VA.** *Website Project Manager and Lead Developer.* VDOT contracted with HDR to lead the analysis and redesign of its primary website. Kelly led the website analytics analysis and industry research portion of the first phase, and incorporated user focus group and survey results into the final report, which provided a data-driven preliminary design and content strategy to VDOT for expansion in the next phase. Kelly conducted a full content audit, created a consolidated sitemap, created a new design system based on a component-driven architecture, developed a detailed content creation guide, developed an information governance guide, helped select and coordinate with a new technology vendor (TerminalFour), provided front-end code for website components, and continues to migrate and build custom sites and content types on an on-call basis. https://www.vdot.virginia.gov/

11/17–Ongoing	**Transportation Action Plan Digital Engagement, City of Minneapolis—Minneapolis, MN.** *Lead Designer and Developer.* HDR was contracted to provide communication, design, and online engagement support to the City of Minneapolis throughout the development of the City's Transportation Action Plan. The Minneapolis Transportation Action Plan is a 10-year action plan to guide future planning, design, and implementation of transportation projects for people in every way they move around and the technology that will support it. Kelly provided comprehensive design and development services for the primary website and other ancillary communication materials using ConcreteCMS, Figma, HTML/SCSS/JS, GoogleMaps API. https://go.minneapolismn.gov/
08/15–Ongoing	**Minnesota GO Statewide Transportation Plan and Highway Investment Plan, MnDOT—Statewide MN.** *Lead Designer and Developer.* HDR provided full statewide community engagement for the Minnesota Statewide Multimodal Transportation Plan and the Minnesota Statewide Highway Investment Plan. Kelly designed and developed the project website, which includes survey-style input, interactive plans, and video, as well as promotional, social media, and informational materials like visual executive summaries using ConcreteCMS, Figma, HTML/SCSS/JS. https://minnesotago.org/
05/13–2/25	**Website Redesign, Riley Purgatory Bluff Creek Watershed District—Eden Prairie, MN.** *Lead Designer and Developer.* HDR was contracted to provide a complete redesign of the Riley Purgatory Bluff Creek Watershed District website, including rebranding, content restructuring, and functionality enhancement. Kelly rebuilt the site using a content management system to allow for rapid site development and editing access for designated team members, with or without programming experience. Added functionality included interactive district region and project maps, an interactive event calendar, and a sortable and searchable document library with uploading functionality using ConcreteCMS, Figma, HTML/SCSS/JS, GoogleMaps API.
07/12–12/19	**Great Northern Transmission Line Environmental Support, Minnesota Power—Duluth, MN.** *Lead Designer and Developer.* HDR provided environmental and public involvement services for a proposed 500 kV transmission line between the Minnesota/Manitoba border and an Iron Range Substation, and a 345 kV HVTL between the Iron Range Substation and the Arrowhead Substation near Duluth, MN. Kelly provided design and development of the project website, including an interactive mapping component, and also designed and produced meeting information and promotional materials for multiple rounds of public and agency meetings throughout the project area using Adobe InDesign, HTML/CSS/JS, GoogleMaps API, Google Fusion Table API.
12/11–12/13	**Revision to SD Coordinated Plan for Natural Resource Conservation, State of South Dakota—Statewide SD.** *Lead Designer and Developer.* The South Dakota Department of Agriculture is revising its 2007 Coordinated Plan for Natural Resources Conservation. HDR was retained to provide full public outreach services, including seven public meetings and a project website. Kelly developed and maintained a project website using a content management system utilizing Adobe InDesign, HTML/CSS/JS, GoogleMaps API, Google Fusion Table API. The website included comment and mailing list forms with back-end reporting, file management, versioning, and also includes an interactive project map.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**					
NAME	Wendy Werner			**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	3 months
TITLE	Grant Support			**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	11
DEGREE(S) / YEARS / SPECIALIZATION			Bachelor of Science / 2014 / Business Administration		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			N/A		
YEAR REGISTERED	N/A	**DISCIPLINE**	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**MPR No. 8**		

Wendy brings extensive experience from the FAA and MoDOT to her role at Woolpert, where she supports airport clients with grant documentation, compliance, and financial oversight. Her deep understanding of aviation funding and collaborative approach help her coordinate effectively with stakeholders and agencies at all levels.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
07/24–02/25	**Management and Financial Analyst, FAA Central Region Airports Division—Kansas City, MO.** Wendy programmed all Airport Improvement Program (AIP) and Infrastructure Investment and Jobs Act (IIJA) Central Region (ACE) grants in the System of Airports Reports (SOAR) database, preparing Remarks, Project Talking Points, and Supplemental Notes, and addressed any questions that arose during grant reviews. She prepared all ACE multi-year amendments, both upward and downward grant amendments, and processed grant withdrawals and closeouts in SOAR. As part of the closeout process, Wendy completed any necessary accounting actions, such as reclassifications. She notified staff when grants were OST released and reserved funds for all ACE grants. Additionally, Wendy reviewed all ACE grants before they were transmitted to airport sponsors. She performed entitlement transfers and carryovers in SOAR and prepared ACE's monthly reconciliation reports. Wendy monitored Period of Performance (POP) dates for ACE grants, prepared all POP amendment justifications in SOAR, and drafted amendments upon approval. She also tracked grants with zero balances for closeout and notified project managers accordingly.
01/20–06/24; 11/14–06/19	**Senior Financial Services Specialist, MoDOT—Jefferson City, MO.** Wendy provided all financial duties for both the Highway Safety Division and the Multimodal Division, including managing expenditures and processing purchase orders through MissouriBuys. She regularly monitored and reconciled funds for up to 475 federal grants to facilitate accuracy. Each week, she compiled and completed drawdowns of federal funds and handled annual federal and state reporting. Wendy also prepared the monthly budget for the Highway Safety Division and tracked funding and expenditures across multiple appropriations. Notably, she closed out a significant backlog of federally funded projects, reducing the total from 450 to 200. She collaborated with the financial reporting team to develop and implement a funding code information report, which streamlined the project closeout process by eliminating several steps. Additionally, Wendy analyzed and closed out numerous complex projects—some valued at up to $520 million—that required exceptional attention to detail. She also reviewed, reconciled, and submitted weekly Federal Highway billings, which at times exceeded $100 million, and worked closely with the Financial Planning team to provide support as needed.
06/19–01/20	**Fiscal and Administrative Manager, Missouri Department of Social Services—Jefferson City, MO.** Wendy supervised two staff members in the cash unit and was responsible for monitoring fund balances, drawing funds from various grant systems, and confirming that all deposits were accurate and complete. She prepared daily cash flow projections to maintain adequate liquidity and approved all cash receipts in the SAM II system. Her responsibilities included completing a variety of reconciliations on a daily, monthly, and year-end basis. Wendy also prepared and submitted both state and federal reports. She worked with external entities to make certain that all grant funds were properly documented and reconciled, and she obtained and submitted necessary documentation for audit requests related to the cash unit.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Hilary Fletcher, MPA	**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	15
TITLE	Community Outreach	**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	22

DEGREE(S) / YEARS / SPECIALIZATION	Master / 2000 / Public Administration Bachelor of Arts / 1982 / American History
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	N/A
YEAR REGISTERED N/A **DISCIPLINE**	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	**MPR No. 9**

Hilary has experience that includes numerous community facilitation projects, land use mediations, and community collaboration projects at the state, regional, and national levels. She has helped local governments, special districts, and non-profits address organizational issues, develop strategic plans, and conduct community outreach initiatives. Hilary leverages her public-policy experience to provide public engagement and policy support for numerous clients throughout the country.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/22–Ongoing	**AAM Planning, FDOT—Statewide FL.** Hilary is providing *Meeting Facilitation/Support, Project Communication, and Tabletop Exercise Execution.* FDOT Aviation Division selected Woolpert to provide strategic planning for the implementation of AAM throughout the state. The team is helping to create guidance to allow the AAM market to emerge. Woolpert wishes to help FDOT be one of the first clients at the State-level to develop a welcoming but thoughtful plan for new entrants and innovation. AAM integrations presents challenges that require innovation, regulation, planning, and significant infrastructure improvements. Hilary's expertise has been critical to the high-level coordination required for the report's land-use guidance, an advisory committee, Florida AAM Roadmap, and a Florida Airports Compatibility Report.
06/19–08/22	**Economic Impact Study, GDOT—Statewide GA.** Hilary provided *Community Engagement/Stakeholder Outreach*. Woolpert has served as Georgia DOT's on-call aviation planning consultant since 2019, providing many planning studies, including both a statewide airport system plan and economic impact analysis. Oversight Committees consisting of political, transportation, and economic specialists helped guide the development of both statewide studies. The economic impact study included extensive investigation to prepare airport and business case studies, showcasing how airports are an integral part of the economic development and business growth. Study products included a comprehensive statewide executive summary, an individual report for each study airport, a study fact sheet, and animated flight maps showing various facets of international and domestic activity. Webinars were conducted to educate airports, their boards and commissions, and other aviation stakeholders on how to effectively use study results. An online economic impact calculator enables GDOT staff to update individual airport economic impacts as circumstances warrant. The project also included the production of a groundbreaking animated video on economic impact findings.
10/22–12/24	**Air Cargo Facility Planning, Private Cargo Carrier—Nationwide U.S.** *Project Management and Client/Stakeholder Coordination*. Hilary currently manages Woolpert's on-call planning and engineering contract for a major U.S. cargo airline, which includes planning and design for air cargo facility optimization at numerous locations at major international airports in the U.S. Hilary and the team have worked closely with this client to deliver an economic impact analysis, conceptual design, cost estimating, and project documentation. Where applicable, she and Woolpert's AAM experts coordinated with airport sponsors to incorporate infrastructure to support this emerging technology. These analyses conducted for the initial expansion helped justify the client's major investment. Woolpert serves in similar capacity for this client at multiple other facilities at major international airports across the U.S.

03/19–04/21	**System Plan and Economic Impact Study, UDOT—Statewide UT.** Hilary provided *Community Engagement/Stakeholder Outreach*. Woolpert conducted an Aviation System Plan and Statewide Economic Impact Study for Utah Department of Transportation (UDOT) Aeronautics. This study includes a detailed assessment of the economic impact of 46 public airports, including Salt Lake City International (SLC). This is the first analysis of SLC in more than 10 years. The evaluation included a unique online survey that collected more than 100,000 passenger surveys, providing a detailed evaluation of visitor spending. Multiplier impacts were assessed using the IMPLAN model. In addition to SLC, the study evaluated the economic impact of Utah's system of 45 airports, including SLC's relievers. By using new and creative approaches to identify links between the airport system and economic development, the team identified the parameters for a decision-making tool that will help direct future funding to maximize return on investment.
05/14–03/16	**Economic Impact Study, NDAC—Statewide ND.** Hilary provided *Community Engagement/Stakeholder Outreach*. This study focused on measuring changes in airport-related economic impacts that have taken place as a result of North Dakota's energy boom. The project began with a focus group attended by airport, planning, educational, and economic stakeholders. This group provided essential input to ensure study products can be easily understood by elected officials and the general public. Woolpert also provided numerous training tools so that airports around the state can serve as champions for the study findings.

16. Staff Experience:

FIRM EMPLOYED BY: **HDR Engineering, Inc.**			
NAME	Wendy Thompson	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	17
TITLE	Community Outreach	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	7
DEGREE(S) / YEARS / SPECIALIZATION	Credential / 2013 / Data Management		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	**MPR No. 9**		

Wendy is responsible for leading the development and implementation of project-specific outreach strategies across the private and public sectors. This includes the organization, management, and facilitation of formal and informal public meetings, hearings, open houses, workshops, advisory committees, and other stakeholder meetings, both in-person and virtually. Wendy excels in leveraging existing communication strategies and employing new technologies and tools to enhance engagement with the public for programs across the country.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
02/23–Ongoing	**Virtual Producer and Web Delivery - TO14 Opt 10-Task 2, Schnabel-HDR Joint Venture / USACE Louisville—Lexington, KY.** *Training Lead and Webinar Production.* Wendy planned, executed, and provided comprehensive virtual production support for numerous U.S. Army Corps of Engineers (USACE) training courses/webinars delivered via web-based platforms (e.g., Microsoft Teams and Webex). Managed technical aspects of virtual classroom environments, including scheduling, platform setup, breakout room management, interactive polling, and multimedia integration. Facilitated smooth communication between instructors and participants, troubleshooting technical issues in real-time to provide an uninterrupted learning experience. Wendy oversaw the recording and post-production of training sessions, confirming high-quality archival and accessibility for on-demand viewing. She provided pre-course technical checks and training for instructors, confirming their comfort and proficiency with virtual delivery tools. Wendy also collaborated closely with course developers and subject matter experts to optimize content for virtual delivery, incorporating interactive elements and best practices for online engagement.
10/22–Ongoing	**Omaha Streetcar Design, Omaha Streetcar Authority—Omaha, NE.** *Public Outreach and Webinar Production.* HDR is developing engineering plans for the 3.5-mile streetcar line, including alignment design and maintenance facility design. Wendy serves as the public information officer for OSA, offering a one-stop information center for questions from stakeholders. She also organized and conducted stakeholder one-on-one meetings to speak with and inform property owners and tenants near proposed streetcar stops. To enhance public transparency and communication Wendy initiated and facilitates monthly public webinars, providing crucial updates on construction and traffic impacts, thereby fostering positive community relations during essential utility work.
01/22–02/23	**Training Supplemental TO06, USACE—Lexington, KY.** *Webinar Production.* HDR led comprehensive services to support the USACE Risk Management Center's public dam and levee safety training program. Wendy managed the development/refresh of training materials, website maintenance, and multi-format course delivery (in-person & virtual webinars). She also produced professional training videos, facilitated diverse delivery, and maintained training participant/material documentation.
09/13–Ongoing	**I-29/I-80 Council Bluffs Interstate System Program Management/General Engineering Consultant, Iowa DOT—Council Bluffs, IA.** *Public Information Officer and Webinar Production.* The Iowa Department of Transportation (DOT) is currently undertaking a major reconstruction project on 14 miles on I-80, I-29, and I-480 in the Council Bluffs / Omaha metropolitan area. Wendy's primary responsibility is the development of comprehensive communications plans and strategies, specifically tailored to facilitate stakeholder and public involvement. Wendy is creating a wide range of informative outreach materials, including meeting materials, press releases, newsletters, and other relevant project pieces, to effectively relay crucial project information to stakeholders. Wendy is coordinating stakeholder and public meetings both in-person and virtually, project events, elected officials webinars, and media events.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**					
NAME	Greg Sanders, AICP			YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	5
TITLE	Economic Impact / Planning			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	3
DEGREE(S) / YEARS / SPECIALIZATION			Bachelor of Arts / 2016 / Urban Planning		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			American Institute of Certified Planners (AICP): 32596 / National / No Expiration		
YEAR REGISTERED	2020	DISCIPLINE	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**Economic Impact (Supporting Role)**		

Greg is an aviation planner with eight years of experience in the airport and transit disciplines. He has contributed to system plans and economic impact studies for 10 different state DOTs. This experience includes GIS analysis of system attributes, economic impact estimations using IMPLAN, and in-person and virtual data collection from airport sponsors and community stakeholders. His other project work includes research for the FAA William J. Hughes Technical Center, financial analyses (rates and charges and fixed base operator services studies) and AAM planning.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
05/22–11/24	**AAM Infrastructure Study, AK DOT&PF—Statewide AK.** *Planner* for this project. Woolpert was selected to provide a gap analysis for determining infrastructure needs to support AAM in Alaska. The scope of work for this contract was to conduct an inventory of existing infrastructure, beginning with the previous Alaska State Aviation System Plan as the foundational environment. Woolpert also incorporated goals from the FAA Alaska Aviation Safety Initiative (FAASI) and the recent U.S. Government Accountability Report, "Transforming Aviation—Stakeholder Identified Issues to Address for 'Advanced Air Mobility.'"
01/22–03/24	**FAA William J. Hughes Technical Center—Atlantic City, NJ.** *Research Analyst* who assisted in conducting FAA research related to automated foreign object debris (FOD) and wildlife detection systems, as well as wrong surface landings. This research was conducted as part of the Airport Safety, Design, Analysis, and Planning program intended to produce recommended safety improvements at U.S. airports.
06/19–12/20	**System Plan and Economic Impact Study, GDOT—Statewide GA.** *Planner* who contributed to all phases, including coordinating data collection and data modeling efforts and developing an online calculator. GDOT's objectives were to document how the system (103 general aviation and commercial airports) had changed in demand, facilities, and services; generate a set of targets and projects to improve the system; and address identified gaps and deficiencies. The Georgia system was unique because every facet of the system was influenced by the nation's busiest airport, Atlanta Hartsfield.
05/18–02/22	**System Plan Update and Economic Impact Study, ALDOT Aeronautics Bureau—Statewide AL.** *Planner* who supported a statewide economic impact study for the Alabama Department of Transportation (ALDOT) Aeronautics Bureau while updating the airport system plan. The plan optimized resources, and the study provided an online calculator tool for 80 airports. Delivered an online GIS dashboard and video to communicate results. This led to the addition of a new regional airport to the NPIAS, replacing several underperforming airports.
11/20-09/22	**System Plan Update, Oklahoma Aeronautics Commission—Statewide OK.** *Planner* who supported an update to the Oklahoma Airport System Plan to build upon the state's existing system planning framework for 106 of the 108 system airports. The study framework focused on important outcomes of ensuring a balanced and viable system of airports by ultimately providing information to support sound decisions on investment needs. This project included several unique electronic deliverables, such as web-based GIS dashboards for client and public use.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**					
NAME	Lauren Silcox			YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6
TITLE	Grant Support			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S) / YEARS / SPECIALIZATION			N/A		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**Grant Support (Supporting Role)**		

Lauren is one of Woolpert's full-time grant administrators and an expert in the complex Federal grant process. She has six years of experience (federal, private, internal, and donor) navigating grant applications, guiding allowable expenses, interfacing with the FAA and DOTs for compliance and reimbursement, and coordinating with airport stakeholders.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
01/20–12/24	**SGH Airport On-Call Services, City of Springfield—Springfield, OH.** *Grants Administrator/Billing Analyst* responsible for billing, invoicing, and project administration tasks. Woolpert was responsible for updating the airport's master plan and ALP and provided FAA grant application assistance, updated the Storm Water Pollution Protection Plan, prepared the ACIP for ODOT and the FAA, runway crack repair, and updated the airport stormwater master plan. Woolpert has worked closely with the FAA and ODOT to secure funding to design and rehabilitate Runway 15-33 including updating the runway lighting system and obstruction removal for Runways 15-33 and 6-24.
08/20–Ongoing	**On-Call Consulting Services, Terre Haute Regional Airport (HUF)—Terre Haute, IN.** *Grants Administrator/Billing Analyst* assisting with annual CIP/ACIP program development support for federal and local capital projects. This includes leading FAA-INDOT CIP review meetings, grant applications, grant payments throughout closeout, event planning, and conflict resolution.
08/21–08/22	**TYQ Runway 18-36 Extension Construction Phase 2, Hamilton County IN Airport Authority—Hamilton, IN.** *Grants Administrator/Billing Analyst* who assisted with project setup, invoices, pay request preparation and submission, and other related tasks. Woolpert managed the construction of Phase 2 (grading and drainage) for the Runway 36 extension project. Woolpert also submitted the required documentation to approving agencies to complete grant requirements
06/20–Ongoing	**CIP/ACIP Program Management, Purdue University Airport (LAF)—Lafayette, IN.** *Grants Administrator/Billing Analyst* assisting with the annual CIP/ACIP program development support for federal projects. This includes leading FAA-INDOT CIP review meetings, grant applications, grant payments throughout closeout, event planning, and conflict resolution.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**					
NAME	Jennifer Kim, AICP		**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	2	
TITLE	Planning		**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	8	
DEGREE(S) / YEARS / SPECIALIZATION			Master / 2018 / Urban Planning Bachelor of Arts / 2014 / Geography (Urban Systems) and International Development Studies		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			American Institute of Certified Planners (AICP): 332629 / National / No Expiration		
YEAR REGISTERED	2019	**DISCIPLINE**	N/A		
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**Planning (Supporting Role)**		

Jennifer is a certified planner with 10 years of experience in aviation planning, stakeholder engagement, and project management. She has prepared and led statewide system plans, airport layout plans, terminal and apron plans, and facility planning/siting studies, and has a deep understanding of the airport planning process.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/22–Ongoing	**AAM Planning, FDOT—Various Locations FL.** *Planner* assisting with developing the land use compatibility guidebook and assembling an AAM working group consisting of eVTOL manufacturers, airports, local governments, planning organizations, and state and federal officials.
04/23–Ongoing	**NAVAIDs and AAM Study, Commonwealth of Virginia—Statewide VA.** *Planner* supporting a Woolpert study for the Commonwealth of Virginia to evaluate all NAVAIDs owned and maintained by the Commonwealth, comparing it to FAA long-term plans for NAVAIDS in the area and recommending strategies to modernize the Commonwealth-owned NAVAIDS as well as provide initial enabling projects for AAM.
10/22–08/23	**Ohio Airport System Plan Update, ODOT—Various Locations OH.** *Planner* who led an airport system planning study for 104 public-use airports in the state of Ohio and served as the Deputy Project Manager and Technical Lead for an IT Enterprise Solution that transforms the study into a live, dynamic, and data-based tool. Her responsibilities included project and workflow management, client coordination, and product management. **completed in prior association*
02/20–02/23	**Maryland Airport System Plan Update, MDOT—Various Locations MD.** *Planner* who conducted an airport system planning study for 35 public-use airports in Maryland. As the Deputy Project Manager and Technical Lead, her responsibilities included developing goals and performance measures, developing an inventory of existing airport facilities, identifying facility requirements, and developing recommendations for Maryland state's airport system. In addition, Jennifer developed an electronic questionnaire that dynamically evaluated inventory data to identify facility, service, and equipment objectives for the study. **completed in prior association*

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Tony Davis	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	9
TITLE	Planning	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	18

DEGREE(S) / YEARS / SPECIALIZATION	Master of Business Administration / 2003 Bachelor of Science / 1994 / Aviation Business Management Associate of Science / 1992 / Aeronautical Science
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE	N/A
YEAR REGISTERED: 1994; 1993; 1991 — DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES	**Planning (Supporting Role)**

Tony has been an aviation consultant since 1994, providing master planning, system planning, and economic impact analysis to airport and state clients throughout the country. For most of his career, he has served as a senior aviation project manager for airport planning projects and has led dozens of airport master plans throughout the United States and was responsible for all phases of the planning process. His development of short-, medium-, and long-term alternative concepts assist airports in understanding the phased construction of airport infrastructure while maintaining critical components of airfield operation, terminal and landside facilities.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/22–04/24	**Airport Master Plan, Miami University Airport (OXD)—Oxford, OH.** *Project Manager* supporting the master plan update. The plan focuses on opportunities that open the airport to new aspects of aviation and capitalize on the learning environment at Miami University. Facilities that are geared toward research and development, as well as AAM access and manufacturing, are critical elements of the airport's future. Consequently, these facilities were studied in detail within the master plan.
11/19–05/20	**Land Use Compatibility Study and Master Plan, Colorado Springs Airport (COS)—Colorado Springs, CO.** *Project Manager* of the master plan and land use compatibility study that analyzed existing and planned land uses on and around the airport to ensure the airport and community continues to thrive and grow in harmony. The study recommended jurisdictions surrounding the airport implement land use policies as well as zoning and building ordinances that balance the airport's current and projected future needs. Elements of the work included aviation forecasts, extensive community outreach, noise contours for future activity, and land use policy recommendations.
10/18–11/20	**Airport Master Plan, Wendover Airport (ENV)—Wendover, UT.** *Project Manager* for the new master plan. Wendover Airport (ENV) is an important transportation facility for Wendover, Utah and the northeastern Nevada and northwestern Utah region. The last airport master plan was prepared in 1999 and ENV was required to complete a new airport master plan to stay eligible for future federal airport improvement grants. Many of the key issues for this plan were related to inventory of existing facilities and environmental resources as well as assessing alternative development areas and relocation areas for facilities at the airport.
09/19–06/21	**Airport Master Plan, Beverly Regional Airport (BVY)—Beverly, MA.** *Senior Planner* who led the airfield planning efforts of the master plan. The master plan focused on critical aircraft determination, the associated airfield design standards, and other long-term development initiatives. A key element of the master plan involved the creation, evaluation, and determination of runway length alternatives and recommended plan.

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Sheldon Menezes, CM, PMP	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	5
TITLE	Planning	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	9

DEGREE(S) / YEARS / SPECIALIZATION			Bachelor of Science / 2012 / Aviation Management
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			FAA Remote Pilot: 3933510 / National / Exp. 11/26 Certified Member (CM), AAAE / National / No Expiration Project Management Professional (PMP), Project Management Institute / National / Exp. 01/28
YEAR REGISTERED	2016; 2016; 2022	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**Planning (Supporting Role)**

Sheldon is an Unmanned Aerial Systems (UAS) Specialist and airport planner, with 14 years of experience in consulting and guiding aviation clients with UAS and AAM implementation and traditional planning services. He identifies opportunities for UAS applications in the aviation and engineering industries and champions UAS initiatives through a continuous improvement process.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
09/20–Ongoing	**Vertiport Design for eVTOL, FAA—Atlantic City, NJ.** *Project Manager* who managed research efforts and the development of the new advisory circular. Woolpert was selected to study and develop recommendations for vertiport design standards for vertical takeoff and landing aircraft, optionally piloted aircraft and unmanned aircraft. Woolpert leads all field testing as it relates to eVTOL interaction with the ground including landing precision, downwash and outwash and taxi-turn radius. Additionally, Woolpert has developed capacity models, modeling and simulation and supported the development of Engineering Brief 105.
10/22–Ongoing	**AAM Planning, FDOT—Statewide FL.** *AAM and Avaition Planning SME* for this project. Woolpert is engaged with the Florida Department of Transportation (FDOT) Aviation Office (AO) on all planning for AAM project. The team is helping to create a long-term plan that allow the AAM market to emerge. Woolpert has developed the AAM Working Group, roadmap strategic plan and now is updating the land use compatibility guidebook to incorporate AAM. Woolpert continues to manage the engagement with nearly 75 entities across the state.
10/22–02/24	**AAM Study, GDOT—Statewide GA.** *AAM and Avaition Planning SME* for the Georgia Department of Transportation's (GDOT) Study on Advanced Air Mobility. The study was a comprehensive effort on AAM that researched nationwide efforts on AAM, use cases for AAM in Georgia, best practices for landing area safety and regulation, initiatives to advance AAM in Georgia, an assessment of the potential economic impact of AAM, an inventory of heliports in Georgia and their adaptability to AAM, an overview of airports and AAM, and an overview of charging infrastructure and cost estimates to install chargers at Georgia airports.
05/22–11/24	**AAM Infrastructure Study, AK DOT&PF—Statewide AK.** *AAM and Avaition Planning SME* for this project. Woolpert was selected to provide a gap analysis for determining infrastructure needs to support AAM in Alaska. The scope of work for this contract was to conduct an inventory of existing infrastructure, beginning with the previous Alaska State Aviation System Plan as the foundational environment. Woolpert also incorporated goals from the FAA Alaska Aviation Safety Initiative (FAASI) and the recent U.S. Government Accountability Report, "Transforming Aviation—Stakeholder Identified Issues to Address for 'Advanced Air Mobility.'"

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Jeff Borowiec, PhD	**YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER**	2
TITLE	AAM SME	**YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)**	30

DEGREE(S) / YEARS / SPECIALIZATION			Doctor of Philosophy / 2003 / Urban and Regional Science Master of Public Administration / 1993 / Public Policy and Administration/Public Works Bachelor of Science / 1990 / Aeronautical Management Technology
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			Certified Member (CM), AAAE: National / No Expiration
YEAR REGISTERED	2024	**DISCIPLINE**	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**AAM SME (Supporting Role)**

Jeff is an experienced aviation planner and researcher who has served as project manager and principal investigator on dozens of aviation studies pertaining to all facets of airports including urban air mobility, airport operations, airport system planning, land use planning, economic impacts, rates and charges, private investments on airports, aviation education, customer service assessments, and community engagement.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/22–02/24	**AAM Study, GDOT—Statewide GA.** *Project Manager* who led planning efforts for the Georgia Department of Transportation's (GDOT) Study on Advanced Air Mobility. The study was a comprehensive effort on AAM that researched nationwide efforts on AAM, use cases for AAM in Georgia, best practices for landing area safety and regulation, initiatives to advance AAM in Georgia, an assessment of the potential economic impact of AAM, an inventory of heliports in Georgia and their adaptability to AAM, an overview of airports and AAM, and an overview of charging infrastructure and cost estimates to install chargers at Georgia airports.
08/21-09/22	**Urban Air Mobility Advisory Committee Project Support, Texas Senate (SB763)/TxDOT, Aviation Division and Strategy and Innovation Division—Statewide TX.** *Principal Investigator/Project Manager* who supported research and participated in committee discussions on urban air mobility operations and infrastructure in Texas. The final report assessed current state law and identified 18 potential changes to state law with specific recommendations to facilitate the development of urban air mobility in Texas. **completed in prior association*
05/17-02/18	**ACRP 11-03/S01-17 Attracting Investment at General Aviation Airports Through Public-Private Partnerships, Transportation Research Board and Airport Cooperative Research Program—United States.** *Principal Investigator* who led the research of public-private partnerships (PPPs) at general aviation airports in the United States. The resulting synthesis outlined practical business applications for successful general aviation airport development. **completed in prior association*
03/15-06/16	**ACRP Report 191: Preparing for the Connected Airport and the Internet of Things, Transportation Research Board and Airport Cooperative Research Program—United States.** *Researcher* who contributed to the development of recommendations for leveraging current and evolving technologies via "the Internet of Things" (IoT) to improve the user experience and add value within the airport environment. **completed in prior association*

16. Staff Experience:

FIRM EMPLOYED BY: **Woolpert, Inc.**			
NAME	Ed Copeland, GISP	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	7
TITLE	Website/Application Design	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	19

DEGREE(S) / YEARS / SPECIALIZATION			Bachelor of Science / 1997 / Geographic and Cartographic Information Systems
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			Certified GIS Professional (GISP): 91821 / National / Exp. 12/25/2025
YEAR REGISTERED	2016	DISCIPLINE	N/A
CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES			**Website/Application Design**

Ed is a Vice President at Woolpert and an accomplished GIS program manager with more than 20 years of experience in the aviation industry and continuing education in the use of GIS for analysis in a wide variety of science and engineering projects. He primarily works with airport clients on system integrations and enterprise systems. Ed has been successful at integrating geospatial solutions at over 30 airports, which includes operations, document management, asset management, properties, mobile, pavement and systems. He is proficient in the use of various CAD-GIS technologies for data processing including the Esri software suite, Autodesk, FME, databases (Oracle, SQL), and a variety of GPS systems.

EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE DATES SHOULD COVER THE YEARS OF EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).
10/21–7/25	**On-Call Technology Planning, Ft. Lauderdale-Hollywood International Airport (FLL)—Ft. Lauderdale, FL.** *Program Director* for this on-call contract. The Broward County Aviation Department (BCAD) engaged Woolpert to provide services and assistance through a Technical Solutions for Advanced Planning Services Contract for FLL and North Perry (HWO) Airports. As part of this contract, Woolpert is currently working on has completed Strategy and Vision Plan for Technology , an Update to BIM Standards, Developing UAS and AAM Program, and providing web application new portal interface for the airport utilizing GIS.
03/20–6/25	**LAODTD ELEVATE Project Platform—Statewide LA.** *Project Manager* developing the replacement program managementplatform; soliciting/ integrating airport, state, and stakeholder feedback; and procuring a Salesforce service cloud. Woolpert conducted an in-depth discovery phase focused on determining project requirements, solution architecture and design, and approval from LADOTD. This program allowed LADOTD to utilize a much more streamlined approach tofacilitate their emergency management module and be aware of what facilities/ services are available during each majoremergency event such as a hurricane, it integrates with their 5010 inspection data, integrates their statewide systemplan data, their Capital Improvement Plan (CIP) and simplifies day-to-day tasksneeded by the States Aviation team.
08/23–4/24	**Systemwide Plan and Economic Impact Dashboard, GDOT—Statewide GA.** *Technology Lead* who helped define the requirements design and layout of a statewide dashboard that presented the system plan along with the economic data drivers for the state of Georgia. The dashboard was built in experience builder and utilizes complex queries and filters along with real time data to allow G dot staff to evaluate different geographical areas and airports based upon economic impact. The dashboard uses a wide variety of information from real time flights, 5010 data, economic information, census information, and other demographics throughout the state.
12/22–7/25	**GIS Consulting, Raleigh-Durham International Airport (RDU)—Raleigh, NC**. *Program Director* for this on-call contract. Since 2015, Woolpert has provided GIS services to RDU and was recently reselected in 2022. Woolpert has worked on a variety of tasks ranging from data maintenance to application development and database management. Most recently, Woolpert provided support and assistance with the configuration and three-tiered deployment of the SQL server, web server, and portal on different servers (for availability and scalability purposes). Also provided an on-premises production GIS environment for RDU. Woolpert provided GIS and IT subject matter experts to support and guide the efforts required to implement the plan for the deployment of this environment

02/22–04/23	**GIS-PROPworks Integration and Address Data Management Solution Implementation, Greater Orlando Aviation Authority (GOAA)—Orlando, FL.** *GIS Manager* responsible for the execution of this project. As part of our on-call information Technology Services co Godntract, Woolpert led the design and oversaw the creation of the solution for GIS Space Management Upgrade and provided guidance for updating the Address Management System Assessment (ADMA) and ArcGIS Enterprise Upgrade Estimate. The Space Management solution is a custom Python Code that runs in ArcGIS Pro and an approval system for new PROPworks Space information through the Enterprise Esri ArcGIS Portal. At the completion of the project, GOAA (Greater Orlando Aviation Authority) has a new Space Management Tools supported by user training and documentation, an analysis and proposal with suggested architecture and cost estimate for an ADMA replacement and an analysis and proposal with suggested architecture and cost estimate for an ArcGIS Estimate.

17. Firm Experience:

FIRM NAME:	**Woolpert, Inc.**			DISCIPLINE(S)	**Planning, Other (research and development)**
PROJECT NAME	Vertiport Design for eVTOL			**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	N/A	**OWNER'S NAME**		Federal Aviation Administration (FAA)	
PROJECT LOCATION	Atlantic City, New Jersey			**OWNER'S PROJECT MANAGER**	Ryan King
OWNER'S ADDRESS, PHONE, EMAIL	109 Amelia Earhart Blvd., Egg Harbor, NJ 08234 | ryan.king@faa.gov | 609.485.8816				
SERVICES COMMENCED BY THIS FIRM (MM/YY)		09/20	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		6,400
SERVICES COMPLETED BY THIS FIRM (MM/YY)		Ongoing	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		6,400

MEMBERS INVOLVED: Ed Copeland, Greg Dyer, Sheldon Menezes, Zach Shuman, Maria Muia

Woolpert is providing research, development, design, and modeling services to the Federal Aviation Administration (FAA) to create vertical lift infrastructure safety and design standards. Since the publication of Engineering Brief 105, the Woolpert team has been working with OEMs to collect operational data to build a performance based advisory circular (AC). Ultimately, Woolpert will conduct the research for the new Advisory Circular for Vertiport Design.

Woolpert was selected to study and develop recommendations for vertiport design standards for VTOL aircraft including standard category aircraft (less than 7,000 lbs. and less than nine passengers), optionally piloted aircraft, and unmanned aircraft. Woolpert will model new recommendations after the heliport design AC 150/5390-2C, which was updated in 2012, and review new and emerging technological, infrastructure, and operating models for inclusion as appropriate. This AC 150/5390-2C categorizes heliports by General Aviation (GA) heliports, transport heliports, hospital heliports, and helicopter facilities on airports.

The new AC will incorporate performance-based standards for each category of use and include landing area design and geometry (basic layout); taxiways; pavement design; lighting and marking; wind indicators; aircraft parking pads; load bearing requirements for pavement design; electric propulsion and charging stations; noise levels anticipated; physical security; and cyber/IT security.

The resulting analysis and design recommendations from the study were summarized in a draft Engineering Brief to supplement the heliport design AC 150/5390-2D and ultimately become the foundation for an updated, vertiport-specific series of safety and design standards. The FAA published Engineering Brief 105 (vertiport design) in 2022. The brief is currently being updated, and the Advisory Circular written.

Woolpert's unique approach to developing the Engineering Brief and Advisory Circular has involved a literature review followed by close coordination with the FAA to collect data and work with OEMs. Woolpert supported the FAA in collecting and handling sensitive information, which was subsequently compiled into a composite aircraft. Since then, Woolpert has been working with different lines of business within the FAA and has started modeling and simulation work to further validate and develop new regulations.

17. Firm Experience:

FIRM NAME:	**Woolpert, Inc.**			DISCIPLINE(S)	**Planning**
PROJECT NAME	Advanced Air Mobility Planning			**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Sub
PROJECT NUMBER	N/A	**OWNER'S NAME**		Florida Department of Transportation (FDOT) Aviation Office (AO)	
PROJECT LOCATION	Statewide Florida			**OWNER'S PROJECT MANAGER**	David Roberts
OWNER'S ADDRESS, PHONE, EMAIL	605 Suwannee St., Tallahassee, FL 32399 | 850.414.4507 | david.roberts@dot.state.fl.us				
SERVICES COMMENCED BY THIS FIRM (MM/YY)		11/21	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		2,150
SERVICES COMPLETED BY THIS FIRM (MM/YY)		Ongoing	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		1,998.6

MEMBERS INVOLVED: Hilary Fletcher, Zach Hazzard, Sheldon Menezes, Maria Muia, Zach Shuman

The Florida Department of Transportation (FDOT) Aviation Office (AO) initiated this planning project in response to the rapid growth of advanced air mobility (AAM) and urban air mobility (UAM). As a subcontractor to Environmental Science Associates (ESA), Woolpert was selected to engage with FDOT AO for Phase 1 and help them become one of the first clients at the state level to develop a welcoming but thoughtful plan for new entrants and innovation.

AAM integrations present challenges that require innovation, regulation, planning, and significant infrastructure improvements. This effort defined FDOT AO's goals, identified areas where AAM development is likely, and highlighted the actions required for successful implementation.

Woolpert's first two tasks were to develop a Florida AAM Roadmap and a Florida Airports Compatibility Report. The Woolpert team studied 30 airports and the surrounding land use and airspace to determine locations for potential AAM infrastructure, specifically full vertiport facilities and minimum standards for them. Since the Federal Aviation Administration's own guidance on this topic is in development, this state-level planning effort provided interim standards for vertiport operations. The Woolpert team ultimately created an interim roadmap to allow the AAM market to emerge before it embarks on the traditional planning elements familiar to a FAA-guided aviation system plan. This roadmap detailed AAM's entry, evolution, and eventual integration into the state's transportation infrastructure. It also includes best practices for communities integrating AAM operations. The reports included many air traffic considerations that may limit capacity at existing facilities in an effort to avoid undesired outcomes of AAM integration.

In the next phase of work, Woolpert assembled an AAM Working Group and collaborated with those stakeholders to publish an implementation plan for AAM across Florida. This implementation plan contained 18 recommendations across four categories, with a special on initiatives that support community engagement and resources for local government. Since then, Woolpert has been implementing those recommendations. In the spring of 2024, Woolpert hosted a series of tabletop exercises across the state to identify gaps and solutions to facilitate the successful development of vertiports across the state. At these tabletops, Woolpert brought together the FAA, airports, local governments, eVTOL operators, and vertiport developers to evaluate the necessary components of a successful land use proposal for a vertiport development. Woolpert used the real life feedback from these events to create and refine an AAM Land Use Compatibility and Site Approval Guidebook, which provides comprehensive guidance for local governments and their role in AAM.

This year, Woolpert has been leading FDOT's Local Government Education Training Campaign and is holding workshops across the state to actively engage the local planners and elected officials who are so critical to the success of AAM. Woolpert's efforts to support AAM in the state are ongoing, with the Advisory Committee meeting several times each year to discuss and make updates to the state's implementation plan.

17. Firm Experience:

FIRM NAME:	**Woolpert, Inc.**		DISCIPLINE(S)	**Planning**
PROJECT NAME	Advanced Air Mobility Study		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	N/A	**OWNER'S NAME**	Georgia Department of Transportation (GDOT)	
PROJECT LOCATION	Statewide Georgia		**OWNER'S PROJECT MANAGER**	Matthew Coffelt
OWNER'S ADDRESS, PHONE, EMAIL	600 W Peachtree St., N.W., 6th Floor, Atlanta, GA 30308 | 205.790.2500 | mcoffelt@dot.ga.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	10/22	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		432.5
SERVICES COMPLETED BY THIS FIRM (MM/YY)	02/24	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		432.5

MEMBERS INVOLVED: Jeff Borowiec, Marc Cocanougher, Zach Hazzard, Sheldon Menezes, Maria Muia, Zach Shuman

Woolpert was selected by the Georgia Department of Transportation (GDOT) to provide a wide range of analysis and process/procedure documentation services surrounding development of best practices in the adoption of advanced air mobility (AAM) throughout the state.

Blueprint and Action Plan: A roadmap outlining phased actions—current, near-term, and mid-term—to engage stakeholders, support local governments, build workforce capacity, and drive economic development.

Technical Report: Covers Georgia-specific AAM topics including use cases, regulatory best practices, economic impact, heliport and airport readiness, and charging infrastructure estimates.

Concepts of Operations (CONOPS): Describes four AAM scenarios in Georgia—urban air taxi, special event transport, rural commuter, and regional mobility—highlighting routes and potential impacts on ground congestion.

Heliport Analysis and Select Airport Analysis: Evaluates heliport adaptability and airport compatibility for AAM based on infrastructure, airspace, safety, and siting recommendations for future AAM facilities.

Community Guidebook: A resource for local governments explaining AAM and offering best practices to prepare communities for integration.

Administrative Updates: Legislative recommendations to advance AAM in Georgia, including updates to aeronautical definitions, establishing GDOT as the AAM lead, and draft code language for licensing and inspection of landing areas.

17. Firm Experience:

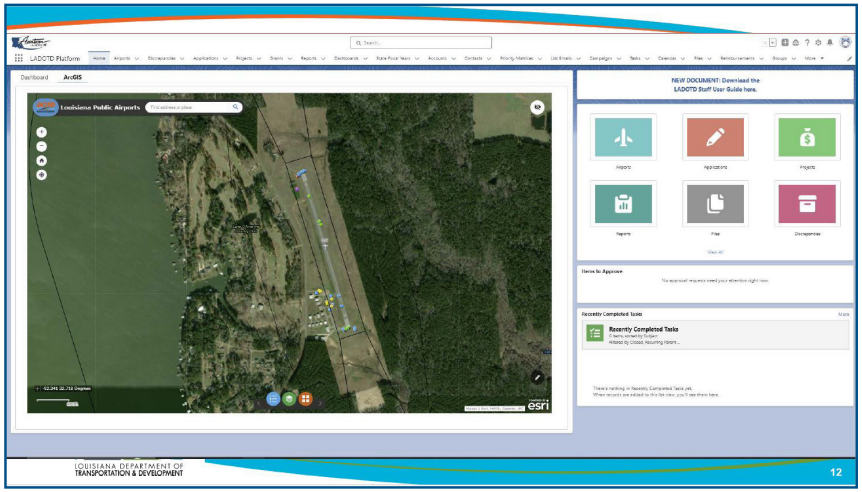
FIRM NAME:	**Woolpert, Inc.**		DISCIPLINE(S)	**Other (Program Development GIS)**
PROJECT NAME	Airport Program Management Update		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Sub
PROJECT NUMBER	H.013983	**OWNER'S NAME**	Louisiana Department of Transportation and Development (DOTD)	
PROJECT LOCATION	Statewide Louisiana		**OWNER'S PROJECT MANAGER**	Brad Brandt
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capitol Access Rd., Baton Rouge, LA 70802 | 225.379.3040 | brad.brandt@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	12/21	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		≥2,500
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		190.36

MEMBERS INVOLVED: Ed Copeland

The Louisiana Department of Transportation and Development (DOTD) selected Woolpert, as a subconsultant to Infrastructure Consulting & Engineering (ICE), to develop and implement the second element of the state's ELEVATE program: an update of the Airport Program Management Plan to replace the existing Airport Information System (AIS).

In addition to overall project management, the team is developing the replacement program management platform; soliciting/integrating airport, state, and stakeholder feedback; and procuring a Salesforce service cloud. Woolpert conducted an in-depth discovery phase focused on determining project requirements, solution architecture and design, and approval from DOTD. The team delivered a roadmap for the implementation of the ELEVATE program with a series of recommendations for the application/web portal development, addressing conceptual architecture, administration, reporting needs, potential tool development needs and review of alternative platforms (Microsoft, Salesforce, etc.) to allow the DOTD to attain its vision of a state-of-the-art Airport Program Management Plan.

Finally, Woolpert is working with DOTD staff to document training needs and deliver instructional modules to help state and airport staff use the new platform. Our previous work with DOTD on the ELEVATE program informs our hands-on approach and enables the team to provide a powerful resource planning platform tailored to DOTD's specific needs.



17. Firm Experience:

FIRM NAME:	**Woolpert, Inc.**		DISCIPLINE(S)	**Planning, Other (GIS)**
PROJECT NAME	Advanced Air Mobility Infrastructure Study		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	N/A	**OWNER'S NAME**	Alaska Department of Transportation and Public Facilities (DOT&PF)	
PROJECT LOCATION	Statewide Alaska		**OWNER'S PROJECT MANAGER**	Troy LaRue
OWNER'S ADDRESS, PHONE, EMAIL	3132 Channel Dr., Juneau, AK 99811 | 907.269.0724 | Troy.LaRue@alaska.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	05/22	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		156
SERVICES COMPLETED BY THIS FIRM (MM/YY)	11/24	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		156

MEMBERS INVOLVED: Greg Dyer, Sheldon Menezes, Greg Sanders, Zach Shuman

The State of Alaska Department of Transportation and Public Facilities (DOT&PF) manages and operates the state airports and the aviation programs throughout the state of Alaska. Woolpert was selected to evaluate the state's current aviation infrastructure and existing plans, consider enhancements based on current operating needs, and incorporate UAS and AAM concepts into the state's planned aviation outlook.

The inventory of existing infrastructure used the most recent Alaska State Aviation System Plan as the foundation. Woolpert's tasks include reviewing the goals of the FAA Alaska Aviation Safety Initiative (FAASI) and the recent U.S. Government Accountability Report "Transforming Aviation-Stakeholder Identified Issues to Address for 'Advanced Air Mobility.'" This study also considers planning enterprises currently being developed by other states and the FAA.

This project is currently underway with the inventory of the baseline conditions complete. Initial stakeholder outreach and formulation of recommendations is ongoing.

The notional plan to achieve AAM capabilities will consider known trends and FAA processes. Per guidance from DOT&PF, the report will be formulated to begin with a gap analysis of the current system and legacy operations, leading to recommendations formulated to enable AAM operations.

The Woolpert team has created a GIS dashboard application to depict current assets and the ranges of the different types of equipment. It also contains layers to give personnel access to funding and projects within the state's system.

As a result of Woolpert's work, the Alaska DOT&PF will have a document that will capture the existing aviation infrastructure state, give officials a graphics tool to inform stakeholders, and provide a strategic framework for future investments. These plans will have a two-pronged focus, to address important shortfalls that may exist, and to work towards a comprehensive vision of legacy operations and an effective AAM network. The ultimate system goals will incorporate appropriate levels of redundancy, equitable transportation of people and goods across the state and increasing modality options.

17. Firm Experience:

FIRM NAME:	**Thales USA, Inc.**			DISCIPLINE(S)	**Other (Aviation/Engineering)**
PROJECT NAME	Vantis			**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	N/A	**OWNER'S NAME**		State of North Dakota	
PROJECT LOCATION	Grand Forks, ND			**OWNER'S PROJECT MANAGER**	Erin Roesler
OWNER'S ADDRESS, PHONE, EMAIL	4201 James Ray Dr., Grand Forks, ND 58202 | 218.230.9132 | emroesler@nd.gov				
SERVICES COMMENCED BY THIS FIRM (MM/YY)		02/20	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		55,000+
SERVICES COMPLETED BY THIS FIRM (MM/YY)		Ongoing	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		55,000+

MEMBERS INVOLVED: Jeff Beyer, Brian Sanderson, Adrian Solomon

Thales is currently serving as the competitively selected, long-term systems engineering / systems integrator (SE/SI) partner responsible for developing, implementing, operating, and maintaining surveillance and communications systems and services that enable UAS Beyond Visual Line of Sight (BVLOS) operations for commercial and public sector customers throughout the state of North Dakota. Thales is fully integrating all elements (systems, subsystems, hardware, software, and training) necessary for a successful integration and deployment of the BVLOS system as an end-to-end UAS solution. Additionally, Thales continues to work closely with the FAA and University of North Dakota / Northern Plains UAS Test Site (NPUASTS) to deliver industry-leading UAS BVLOS solutions, and in the process, has received more waivers and Certificates of Waivers of Authorization (COAs) from the FAA than any other test site. Thales is currently successfully executing on the 9th Task Order for the Vantis program.

17. Firm Experience:

FIRM NAME:	**Thales USA, Inc.**		DISCIPLINE(S)	**Other (Aviation/Engineering)**
PROJECT NAME	Feasibility Study for UAS Connected Corridor Michigan DOT AERO		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Sub
PROJECT NUMBER	N/A	**OWNER'S NAME**	Michigan DOT Aeronautics	
PROJECT LOCATION	State of Michigan and Windsor, Ontario		**OWNER'S PROJECT MANAGER**	Bryan Budds
OWNER'S ADDRESS, PHONE, EMAIL	425 W Ottawa St., Lansing, MI 48933 | 517.230.1367 | BuddsB@michigan.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	01/24	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		1,300
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing (until 01/26)	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		1,300

MEMBERS INVOLVED: Jeff Beyer, Brian Sanderson, Adrian Solomon

Thales, in partnership with Airspace Link, executed on a project for the Michigan Development of Transportation Office of Aeronautics (AERO) to perform a Feasibility Assessment across three geographic areas in Michigan and Ontario, Canada for a UAS Connected Corridor. Thales devised the approach for assessing existing airspace, air traffic and ground infrastructure and spearheaded the analysis. Thales leveraged their extensive experience as a designer, developer and implementer of complex, mission-critical solutions for ATM and used a system-of-systems methodology. Due to the fact that Detect and Avoid (DAA) technology in the UAS would take several years to mature technologically and obtain FAA approval, Thales was able to accelerate the time for AERO to obtain approval for a BVLOS UAS Connected Corridor by using the valuable lessons learned in North Dakota on the Vantis program and analyzed a combination of non-cooperative sensors to maximize the coverage volume and protect UAS operations from intruding in commercial, general aviation, or military flight paths.

17. Firm Experience:

FIRM NAME:	**Thales USA, Inc.**			DISCIPLINE(S)	**Other (Aviation/Engineering)**
PROJECT NAME	MICH-AIR			**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	N/A	**OWNER'S NAME**		Battle Creek Unlimited	
PROJECT LOCATION	Kellogg, Michigan			**OWNER'S PROJECT MANAGER**	Robert Corder
OWNER'S ADDRESS, PHONE, EMAIL	4950 W Dickman Rd., Suite 1, Battle Creek, MI 49037 | 269.719.6829 | corder@bcunlimited.com				
SERVICES COMMENCED BY THIS FIRM (MM/YY)		07/24	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		270
SERVICES COMPLETED BY THIS FIRM (MM/YY)		09/24	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		270

MEMBERS INVOLVED: Jeff Beyer, Brian Sanderson, Adrian Solomon

For the Battle Creek Unlimited (BCU) project, Thales prepared an Engineering Study for a Ground Based Sense and Avoid (GBSAA) system to support BVLOS UAS operations in and out of the Kellogg Airport in Battle Creek, MI. The project's goal was to lay the groundwork for Battle Creek's advancement of UAS integration within the state of Michigan and help establish the MICH-AIR facility as the first of its kind in the state, serving as a hub for advanced urban air mobility. Thales conducted a detailed technological evaluation, provided a recommended equipment list for the GBSAA system and a Strategic Integration Plan to serve as a roadmap for BCU.

17. Firm Experience:

FIRM NAME:	**HDR Engineering, Inc.**		DISCIPLINE(S)	**Data Collection**
PROJECT NAME	MCAS Cherry Point Boundary Management UAS Capture & Program Development		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	10254757	**OWNER'S NAME**	Naval Facilities Engineering Command (NAVFAC)	
PROJECT LOCATION	MCAS Cherry Point, NC		**OWNER'S PROJECT MANAGER**	Richard Allahar
OWNER'S ADDRESS, PHONE, EMAIL	1837 Morris St., Bldg. Z133, Rm. 1307, Norfolk, VA 23511 | 757.341.0284 | richard.g.allahar.civ@navy.mil			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	12/20	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		793
SERVICES COMPLETED BY THIS FIRM (MM/YY)	08/22	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		517

MEMBERS INVOLVED: Carlos Femmer

HDR's data acquisition team performed the first commercial base-wide drone capture for Marine Corps Air Station Cherry Point. We provided the installation's management with orthomosaic and point cloud deliverables to support their boundary management process. We worked closely with the FAA, DoD, MCAS Air Traffic Control, and Base Commander to develop an approved flight plan, and with the FAA and MCAS Air Traffic Control for deconfliction with the base's air traffic. Our pilots successfully completed the planned flights despite high winds. We captured approximately 8,000 acres in three days, utilizing a pair of Wingtra fixed-wing drones flying simultaneously. The drones were outfitted with post-processing kinematic (PPK) positioning equipment. With the data, we developed a high-resolution orthomosaic photo, point cloud, and reality mesh model for ongoing reference. The deliverables enhance the ability to identify property markers and fence lines remotely, increasing the efficiency of the boundary management process. Additionally, we developed comprehensive standard operating procedures (SOPs) for NAVFAC's drone program to provide safety, efficiency, and regulatory compliance. We also designed a tailored drone training program that blended classroom-based theoretical instruction with practical field-based training sessions. This dual approach confirmed that participants gained a robust understanding of drone operations, from fundamental principles and regulatory requirements to hands-on flight experience and mission execution. The classroom component covered essential topics such as airspace regulations, drone maintenance, flight planning, and data analysis, while the field-based training provided real-world experience in piloting drones, conducting inspections, and troubleshooting in various operational scenarios. This holistic training program equips NAVFAC personnel with the skills and knowledge necessary to effectively and safely utilize drones for specific operational needs.

17. Firm Experience:

FIRM NAME:	**HDR Engineering, Inc.**		DISCIPLINE(S)	**Planning**
PROJECT NAME	North Carolina NEVI and Infrastructure Needs Assessment		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	10395336	**OWNER'S NAME**	North Carolina Department of Transportation (NCDOT)	
PROJECT LOCATION	Statewide Michigan		**OWNER'S PROJECT MANAGER**	Heather Hildebrandt
OWNER'S ADDRESS, PHONE, EMAIL	1 S Wilmington St., 1554 Mail Service Center, Raleigh, NC 27699 | 919.707.0964 | hjhildebrandt@ncdot.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	11/22	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		1,500
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		1,500

MEMBERS INVOLVED: Justin Robbins

As required by the Bipartisan Infrastructure Law (BIL), NCDOT prepared and submitted a Statewide EV Infrastructure Deployment Plan in July 2022. The Plan provides a comprehensive framework for future deployment, specifying two phases of infrastructure deployment as well as providing a timeline and outline for implementation. Like most states, NCDOT's NEVI Plan was developed under an extremely tight time frame, and while approved by FHWA, it still needed to have significant details and work conducted prior to issuance of an RFP or deployment of an EV infrastructure. HDR assisted NCDOT in these activities, engaging stakeholders and analyzing EV charging station siting criteria. The HDR team developed a procurement strategy, assessed infrastructure needs for different vehicles, and conducted a zero-emission vehicle needs assessment. HDR consulted with stakeholders, gathered feedback, and is currently developing the final procurement process. As part of the process, HDR held over 20 one-on-one meetings with industry stakeholders, including utilities, EVSE suppliers, OEMs, logistics providers, trade groups, and retail providers.

HDR is currently serving as the Program Manager in support of NCDOT's implementation of the NEVI program. It works with private awardees, site hosts, and EVSE providers to meet the program requirements. HDR also serves as the day-to-day point of contact, and technical experts verify awardee compliance with the requirements and help NCDOT navigate federal guidance as it is updated.

In 2023, North Carolina Governor Roy Cooper issued Executive Order 271 that directs North Carolina agencies to begin preparing for the state's entry into the ACT program. Part of the order directed NCDOT to develop an infrastructure needs assessment for medium-duty/heavy-duty vehicles that corresponds to the ACT sales requirements. Medium and heavy-duty (MD/HD) vehicles have much larger batteries than do light-duty vehicles and require substantially more power and energy to electrify. This study was intended to prepare the state of North Carolina and its utilities with the needed infrastructure to support large-scale adoption of battery electric and hydrogen MD/HD vehicles.

HDR developed the infrastructure needs assessment report (alongside the state's NEVI implementation program and under the same contract) that quantifies the potential charging infrastructure needs, number of chargers (both Level 2 and DCFC, based upon use cases and vehicle classifications), and impact on electrical load and electricity generation. The report, created by HDR, highlights many of the barriers that will need to be addressed to support implementation of the ACT rule, as well as a host of recommendations and options available to the state to help plan, coordinate, fund, and develop legislation intended to lower the barriers for implementing the proposed ACT rule.

17. Firm Experience:

FIRM NAME:	**HDR Engineering, Inc.**		DISCIPLINE(S)	**Planning**
PROJECT NAME	Strategic Highway Safety Plan (SHSP) Development and Planning Task Order #3: Destination Zero Deaths Website Design		**FIRM RESPONSIBILITY (PRIME OR SUB?)**	Prime
PROJECT NUMBER	H.972419.1 F.A.P. No. H972419	**OWNER'S NAME**	Louisiana Department of Transportation and Development (LADOTD)	
PROJECT LOCATION	Statewide Louisiana		**OWNER'S PROJECT MANAGER**	Autumn Goodfellow-Thompson
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capitol Access Rd., Baton Rouge, LA 70802 | 225.379.1838 | Autumn.Goodfellow-Thompson@LA.GOV			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	08/24	**TOTAL CONSULTANT CONTRACT COST ($1,000'S)**		118.5
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	**COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM ($1,000'S)**		118.5

MEMBERS INVOLVED: Kelly Spitzley

After preparing the 2022 Strategic Highway Safety Plan (SHSP) and 2023 Vulnerable Road User Safety Assessment in coordination with DOTD as part of Task Orders 1 and 2, DOTD enlisted HDR in the planning, redesign, and development of the Destination Zero Deaths (DZD) website as part of this task order (Task Order 3). The DZD website houses SHSP materials, crash statistics, action plans, social media links, and other resources.

HDR's Digital Engagement Team created a user-friendly, device-responsive, accessible website to share information, educate stakeholders and communities, provide community engagement opportunities, and integrate with other digital communication channels and media. HDR 's subject matter experts worked closely with HDR's in-house communication specialists, web designers, and developers to create a website that combines engaging design, interactive elements, and technically sound content for users and devices. HDR launched and transferred the final website (https://destinationzerodeaths.com) to DOTD in May 2025.

HDR's website design and development process includes the following:

- Facilitating a website planning workshop
- Creating the website wireframe based on a sitemap with approved content
- Creating an interactive design mockup based on the wireframe
- Developing a staging site based on approved design prototype
- Conducting launch preparations and deploying the final website
- Transferring website properties to DOTD
- Providing website training and maintenance

18. Approach and Methodology:

The aviation industry is evolving rapidly with the emergence of new technologies, driven by innovation and regulatory changes. Woolpert is at the forefront of advanced air mobility (AAM) planning, working with various entities on research, planning, infrastructure, and operational requirements. Woolpert leads the Federal Aviation Administration (FAA) William J. Hughes Technical Center's unmanned aerial system (UAS) and AAM research programs, and has been developing national standards, such as FAA Engineering Brief 105/105-A for vertiport design, and conducting operational testing of these new aircraft. Our FAA and statewide AAM planning experience, our strong relationships with prominent stakeholders in the industry, and our experience working with DOTD positions the Woolpert Team best to deliver the task orders as part of this IDIQ.

Woolpert's management approach to IDIQ contracts is to approach each task order with the following key pillars:

Woolpert will collaborate with DOTD to define AAM clearly and approach the project with a comprehensive view that includes both legacy aviation and the future of all aeronautical users in the state.

The following section provides a detailed approach and methodology for each of the task orders included in Attachment A. We understand additional task orders may arise throughout the IDIQ contract and our project management approach will facilitate consistency throughout the entire IDIQ.

Conduct a SWOT Analysis for AAM in Louisiana. A SWOT analysis is an important component in defining the DOTD's role in AAM. Woolpert will begin by identifying stakeholders from within DODT, state economic development organizations, airports, universities, original equipment manufacturers (OEMs), among others to participate in the SWOT. This group will function as an Advisory Committee on the project and will be consulted throughout subsequent task orders. Woolpert will then identify a date to facilitate an in-person SWOT workshop. This workshop will ideally be conducted alongside the visioning session identified in the "Strategic Plan" task of this Proposal, so that these participants can begin by setting the vision for AAM within the state before moving onto the SWOT exercise. Concurrently, Woolpert will review existing studies, international best practices, and case studies on AAM, and coalesce the findings from these efforts into a comprehensive existing conditions inventory and analysis that includes the SWOT Matrix.

Task Order: Conduct a SWOT Analysis for AAM in Louisiana						**Deliverables**
Subtasks/Month	1	2	3	4	5	
Establish Advisory Committee						Advisory Committee
Prep and Host SWOT Workshop						SWOT Workshop and Materials
Develop Comprehensive Existing Conditions Analysis						Comprehensive Existing Conditions Document

Develop a Detailed Strategic Plan. This task will consist of three components: The traditional elements of a strategic plan, land use considerations, and operational use cases. These elements will be incorporated into a consolidated document along with an implementation roadmap.

Traditionally, a Strategic Plan would define the DOTD's vision, goals, and objectives for AAM within the state. Woolpert's effort will consist of traditional strategic planning elements, considerations for land use, the development of use cases, and an implementation roadmap. Woolpert will facilitate an in-person visioning workshop with the Advisory Committee to develop a vision and mission statement for AAM in the state, establish strategic initiatives for infrastructure, workforce development, policy development, and public-private partnerships, and define objectives and performance measures for each initiative. Woolpert will review opportunities for infrastructure development and review federal and state statutes to recommend revisions to safely enable AAM in the state. Woolpert will also identify current pain points or gaps in the existing aviation system to identify upgrades that support all users, better preparing for AAM integration.

KEY PROJECT OBJECTIVES ACHIEVED

- ✓ Vision Development
- ✓ Infrastructure Assessment
- ✓ Regulatory Framework
- ✓ Workforce Development
- ✓ Modernize Airspace System
- ✓ Integration Plan

The second component of this task is to discuss land use considerations and identify solutions for public use vertical landing areas, with a special focus on noise, compatible land uses, and best practices for local governments to establish zoning for such facilities. Woolpert will develop specific materials, including local government checklists and a zoning template to promote a broad understanding of AAM and its land use implications across local governments.

The third component of this task is to develop use cases and an operational environment for AAM in the state. Use cases to be developed include disaster response, the oil and gas industry, and rural air taxi. The use cases will contain infrastructure considerations for landing infrastructure, whether at existing airports or new vertical landing facilities, requirements for charging or fueling infrastructure, as well as a discussion on airspace integration and state initiatives regarding low altitude airspace. Woolpert can conduct feasibility assessments for low-altitude airspace to modernize infrastructure and explore opportunities for UAS corridors.

Task Order: Develop a Detailed Strategic Plan										**Deliverables**
Subtasks/Month	1	2	3	4	5	6	7	8	9	
Prep and Host Visioning Workshop										Visioning Workshop and Materials
Draft Strategic Initiatives										Strategic Planning Document
Identify Land Use Considerations										Strategic Planning Document
Develop Use Cases										Strategic Planning Document

Our team includes FAA specialists from Thales and Woolpert with deep expertise in air traffic technology and policy, providing the foundation for thorough and informed analysis.

Prepare a Near-, Mid-, and Long-Term Economic Impact Analysis. AAM is a continually evolving industry that has seen shifting timelines for the entrance of new technologies and regulation, most notably for the certification of electric vertical takeoff and landing (eVTOL) aircraft, as well as beyond visual line of sight (BVLOS) approvals for unmanned aerial systems (UAS). Woolpert will leverage its relationships in the industry and DOTD's relationships in the state to gather a group of AAM stakeholders to explore opportunities for pilot projects, tax breaks, or grants to AAM startups that are establishing operations in Louisiana, as well as those researching hydrogen or hybrid AAM systems. Last, Woolpert will conduct at a high-level demand modeling and forecasting for potential AAM operations in Louisiana, whether they are for UAS last-miles logistics or eVTOL/ other novel aircraft. This task will provide Louisiana with a broad understanding of the potential market for AAM in the state, and these materials will further economic development for AAM as the content is developed for the Strategic Plan website.

KEY PROJECT OBJECTIVES ACHIEVED

- ✓ Market Analysis
- ✓ Economic Impact
- ✓ Public Engagement and Education

Task Order: Prepare a Near-, Mid-, and Long-Term Economic Impact Analysis								Deliverables
Subtasks/Month	1	2	3	4	5	6	7	
Explore Pilot Project Opportunities								Consolidated Economic Impact Report, including Executive Summary and Briefing Materials
Incentives Report								
Demand Modeling and Economic Impact Report								

Design, Develop, and Host an AAM Strategic Plan Website. A dedicated website for the DOTD's AAM Strategic Plan will serve as Louisiana's AAM brand, and one of the most impactful ways to engage with stakeholders across Louisiana on DOTD's vision and goals. As local planners are critical to infrastructure development and protection, content will be developed for both public awareness and local officials' education. Woolpert will design, develop, host, test, and launch an AAM website for the DOTD to promote the AAM strategy in the state. Understanding DOTD's functional requirements, information technology (IT) security processes and policies, and the identified user needs and preferences are all essential in successfully launching an AAM website that meets DOTD's approved specifications. Woolpert will leverage the Advisory Committee (or a subset of members of the Advisory Committee) to assist in identifying user needs. The website development process will be iterative, and will include multiple rounds of DOTD input, review, and approval at key junctures of development. An important step in introducing any new technology is user training and system familiarization. To ensure DOTD Aviation staff can seamlessly manage the AAM website, Woolpert will provide a series of training sessions on the website system architecture and deliver a detailed user manual and hosting/administrative access credentials.

KEY PROJECT OBJECTIVES ACHIEVED

- ✓ Public Engagement and Education
- ✓ Integration Plan

Task Order: Design, Develop, and Host an AAM Strategic Plan Website								Deliverables
Subtasks/Month	1	2	3	4	5	6	7	
Review/Finalize DOTD Approved Specifications								Functional Requirements Document
Design Website & Gain Input from Advisory Committee								User Interface Wireframe Document
Website Development/Hosting								-
Website Testing/Launch								Live Website
DOTD Training & Documentation								DOTD Training Sessions & Documentation

Plan and Deliver an AAM Webinar Series. Educating stakeholders on AAM topics is a critical part of successfully integrating AAM across the state. Woolpert has significant experience hosting working groups, leading local government training campaigns, and producing webinars for maximizing engagement with stakeholders. Following the completion of the Strategic Plan, Woolpert will finalize the topics, messaging, and key talking points for six AAM webinars. Woolpert will identify options for and ultimately procure licenses for webinar hosting that is suitable for the DOTD's future use and then transfer any said licenses along with setup documentation to DOTD at the conclusion of the project. Each Webinar will feature a script, PowerPoint slides, and engaging visuals on the topic, including interactive elements to maximize audience engagement. Woolpert will rehearse, present, and record each webinar, and then edit the recording as needed for clarity. The webinars will be hosted every other month and Woolpert will manage the live event's logistics and provide the recording of each webinar for on-demand access on the AAM Strategic Plan Website. Interim webinar reports will be developed following each webinar and lessons learned will be incorporated into the planning for future webinars. Last, Woolpert will produce a final report summarizing each webinar, including information on attendance, engagement, and other metrics.

KEY PROJECT OBJECTIVES ACHIEVED

✓ Public Engagement and Education

✓ Integration Plan

Task Order: Plan and Deliver an AAM Webinar Series															Deliverables
Subtasks/Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Prep and Host Visioning Workshop															PowerPoint Slides and Graphic Exhibits
Webinar Sessions															Final Webinar Recordings
Webinar Reports															Interim and Final Webinar Reports
License Procurement															Webinar Licensing and Transfer

Support DOTD with Professional Grant Writing Services. As AAM evolves, so will grant opportunities that support the integration of AAM within Louisiana. Woolpert provides a one-stop shop for grant services, with a dedicated Grant Services team that works closely with Woolpert's Government Affairs group to provide coordinated, efficient project funding support. Woolpert's grant services cover the entire life cycle of the grant - from research to closeout. As an in-house team, this team will be kept apprised of Louisiana's AAM goals as they are made, so that research can begin alongside the development of the Strategic Plan. Woolpert will develop a comprehensive list of funding sources and the goals from the Strategic Plan which they support.

KEY PROJECT OBJECTIVES ACHIEVED

✓ Integration Plan

Once identified, Woolpert will work together with the DOTD to develop tailored grant applications, including fiscal qualifications, project-to-grant alignment, and justification of project need. All grant applications will be reviewed for technical accuracy, and submissions will be handled by Woolpert. Once submitted, Woolpert will address all follow-up requests from funders and support reporting requirements for successful grant awards.

Task Order: Support DOTD with Professional Grant Writing Services													Deliverables
Subtasks/Month	1	2	3	4	5	6	7	8	9	10	11	12	
Research AAM Grant Opportunities													List of AAM Grant Opportunities
Develop Grant Applications													Fully Developed Grant Proposals
Submission Management and Support													Submissions and Outcomes Report
	Services as needed on retainer.												

19. Workload:

For all contracts where a firm on the team is a prime consultant or sub-consultant and where a) the consultant selection was made by DOTD, and b) a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

1) One of the team's firms is responsible for the performance of the work;
2) Authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
3) The work has not yet been performed and invoiced; and
4) The work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Woolpert, Inc.	Planning	400017531	IDIQ Planning 20-24.04(Sub)	$15,550
	Planning	400017531	IDIQ Planning 20-24.03(Sub)	$7,759
	Planning	400017531	IDIQ Planning 20-24.07(Sub)	$0
HDR Engineering, Inc.	Other (Hydraulic Modeling)	4400017091	LADOTD LWI Region 5 TO4 - Project # 10403496	$284,771
	Bridge	4400024186/H.015472	LADOTD Br Preservation TO4 - Project # 10390676	$110,351
	Planning	4400026365/H.015223.2	Baton Rouge to New Orleans Rail Corridor Environmental Study – Project # 10368719	$538,228
	Planning	4400018780	LADOTD IDIQ SHSP_TO2 - Project # 10366533	$23,627
	Planning	4400018780	LADOTD IDIQ SHSP_TO3 - Project # 10412666	$11,724
	Bridge	4400021517	Contract 5 for Movable Bridges (6) – Project # 10360261	$1,757,718
	Bridge	4400024186	LADOTD LA301 Priest Canal TO#5 - 10431757	$215,242
Thales USA, Inc.	N/A	N/A	N/A	N/A

20. Certifications/Licenses:

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Name	Type	City	Status
WOOLPERT, INC.	Business Corporation (Non-Louisiana)	DAYTON	Active

Previous Names

Business: WOOLPERT, INC.
Charter Number: 35820651F
Registration Date: 11/22/2004

Domicile Address

4454 IDEA CENTER BLVD.
SUITE 100
DAYTON, OH 454301500

Mailing Address

4454 IDEA CENTER BLVD.
SUITE 100
DAYTON, OH 454301500

Principal Business Office

4454 IDEA CENTER BLVD.
SUITE 100
DAYTON, OH 454301500

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

C/O 3867 PLAZA TOWER DRIVE
BATON ROUGE, LA 70816

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 11/22/2004
Last Report Filed: 10/24/2024
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: NATIONAL REGISTERED AGENTS, INC.
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816
Appointment Date: 12/15/2008

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Name	Type	City	Status
HDR ENGINEERING, INC.	Business Corporation (Non-Louisiana)	OMAHA	Active

Previous Names

HDR INFRASTRUCTURE, INC. (Changed: 12/3/1987)

Business: HDR ENGINEERING, INC.
Charter Number: 34178558F
Registration Date: 6/17/1985

Domicile Address

1917 S. 67TH STREET
OMAHA, NE 68106

Mailing Address

1917 S. 67TH STREET
OMAHA, NE 68106

Principal Business Office

1917 S. 67TH STREET
OMAHA, NE 68106

Registered Office in Louisiana

201 RUE BEAUREGARD, STE. 202
LAFAYETTE, LA 70508

Principal Business Establishment in Louisiana

5750 JOHNSTON STREET
SUITE 105
LAFAYETTE, LA 70503

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 6/17/1985
Last Report Filed: 5/27/2025
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: REGISTERED AGENTS INC
Address 1: 201 RUE BEAUREGARD, STE. 202
City, State, Zip: LAFAYETTE, LA 70508
Appointment Date: 6/7/2024

Thales has submitted an application for the Louisiana Secretary of State registration on June 2, 2025. The registration is currently in process, and the status is pending as of June 13, 2025. Thales will have the certification in place before contract award.

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Woolpert, Inc.	Ms. Tess Carawan 4454 Idea Center Boulevard Dayton, Ohio 45430

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0004611	Active	06/16/2010	09/30/2026	Mr. Michael Todd Ford # PE.0046092

21. QA/QC Plan:

If the advertisement requires submission of a QA/QC plan, include it here. Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.

N/A - Not Required.

22. Subconsultant Information:

Firm Name (Name must match **exactly** as registered with Louisiana's Secretary of State (SOS): **including punctuation, include screenshot(s) from SOS at the end of Section 20)**	**Address**	**Point of Contact and email address**	**Phone Number**
HDR ENGINEERING, INC.	8545 United Plaza Boulevard, Suite 379, Baton Rouge, LA 70809	Wesley (Wes) Jacobs wesley.jacobs@hdrinc.com	225.465.6360
Thales USA, Inc. – ATC	500 Plum Street, Suite 100, Syracuse, NY 13204	Steve Willer steve.willer.e@thalesdigital.io	909.712.9998

23. Location:

If location is an evaluation criterion for this advertisement (see page 2) and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement.

N/A - Not Required.