STAFF REPORT TO AMADOR COUNTY AIRPORT LAND USE COMMISSION FOR MEETING OF TUESDAY, NOVEMBER 14, 2017

ITEM NO. 1 - Review and possible compatibility determination relative to the proposed Tanner Backwash Recycling Project which proposes the installation of two 35' high steel tanks and associated pumping and piping facilities for the purpose of recycling treatment plant backwash wastewater.

Applicant: Amador Water Agency

Location: On the south side of Ridge Rd. about ³/₄ mile east of Hwy 49 just southwest of the existing AWA Tanner Water Treatment Plant.

A. Background. To remain in compliance with existing regulations by eliminating offsite discharge of backwash water the Amador Water Agency (AWA) is proposing to construct two new steel storage reservoirs and associated pumping and piping facilities adjacent to their existing water treatment facility south of Ridge Rd. (see attached information). Construction is expected to commence in early 2018, after the Update to the ALUCP is adopted.

The proposed storage reservoirs (tanks enclosed with metal roof systems) will be no taller than 35' above ground level with an estimated diameter of 50' to 60' (approx. 220,000 gals each). The proposed location for the tanks lies in Overflight Zone 3 of the 1990 (current) Airport Land Use Compatibility Plan (ALUCP) and is in Safety Zone 6 of the proposed 2017 update to the ALUCP that is currently underway. Both the 1990 ALUCP and the 2017 Updated ALUCP contain the same Airspace Protection Zones for imaginary surfaces (i.e., height limitations) which establish criteria for evaluating potential obstructions that may constitute hazards to aircraft.

AWA has submitted a Notice of Proposed Construction or Alteration to the FAA (attached) for review and approval. The information submitted in that application shows the proposed tanks and pump station at the proposed location will not be of a height so as to penetrate the 14 CFR Part 77 Imaginary Surfaces as contained in both the 1990 ALUCP and the proposed 2017 Update to the ALUCP.

The AWA also plotted the location of the proposed project under the proposed 2017 ALUCP land use compatibility zones. The proposed tank site and pump station are in Zone 6 with the project piping traversing into Zone 3. The proposed Land Use Compatibility Table identifies Utilities as a "compatible" use in Zones 2 through 6 subject to ALUC review if greater than 200 feet above field elevation (AFE) and a finding the project does not to present a Wildlife Hazard Attractant

- **B. ALUC Action:** The ALUCP needs to review the information submitted and determine whether the proposed project is compatible with the Westover Field airspace protection zones for imaginary surfaces (height limits), the Land Use Compatibility Table, and the wildlife hazard attractant policies. Findings supporting the action of the Commission should be adopted.
- C. Staff Recommendations: Based upon the information provided in the FAA Notice of Proposed Construction or Alteration, the project description, and both the 1990 and 2017 ALUCPs the following findings and conditions are provided for the Commission's consideration.

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Recommended findings are as follows:

- 1. The proposed project consisting of 2 enclosed tanks with a metal roofing system does not constitute a wildlife hazard attractant;
- 2. The proposed 35' high tanks will be at a maximum elevation of approximately 1735'msl which is approximately 55' AFE (above field elevation) and which does not penetrate the imaginary surfaces maximum height limit for the project site; and
- 3. The proposed project consisting of two 35' high tanks with a pump station and associated piping system for the Amador Water Agency Tanner Backwash Recycling Project is a compatible land use (Utilities) for Overflight Zone 3 of the 1990 ALUCP and Safety Zones 3 and 6 of the proposed 2017 ALUCP Update, subject to the above two findings.

Recommended Conditions are:

- 4. Obtain FAA approval of Notice of Proposed Construction or Alteration pursuant to 14 CFR Part 77.
- 5. Construction of project shall be substantially the same as proposed. Any substantial change will require resubmittal to the ALUC.



A Public Agency 12800 RIDGE ROAD, SUTTER CREEK, CA 95685 • (209) 223-3018 Fax: (209) 257-5267

October 12, 2017

Subject:

Airport Land Use Commission Application

Amador Water Agency

Tanner Backwash Recycling Project

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OCT 13 2017

AMADOR COUNTY
PLANNING DEPARTMENT

Dear Susan Grijalva,

This Document presents the Airport Land Use Commission Application supporting the development of Amador Water Agency's proposed Tanner Backwash Recycling Project. This application includes a project description, a map of the proposed facilities within airport safety zones, a map of the proposed facilities over existing topography, and a preliminary profile presenting the extent of encroachment of the proposed facilities towards the Airspace Protection Zone Surface.

If you have any question or desire any additional information, please do not hesitate to contact Karl Brustad at (916) 608-2212 x113.

Sincerely,

Damon Wyckoff
Operations Manager

Enclosures: Project Description

Project Location Figure Preliminary Site Plan Preliminary Profile

RECEIVED

Tanner Backwash Recycling Project Amador Water Agency October 12, 2017

OCT 13 2017

AMADOR COUNTY
PLANNING DEPARTMENT

Project Description:

The Amador Water Agency (AWA) is proposing to construct two new welded steel storage reservoirs and associated pumping and piping facilities at the southern limits of its parcel for the purpose of recycling treatment plant backwash wastewater. The proposed Project will eliminate offsite discharge of backwash water. The Project is a priority for AWA and is needed to allow the Tanner Water Treatment Plant (WTP) to remain in compliance with existing regulations.

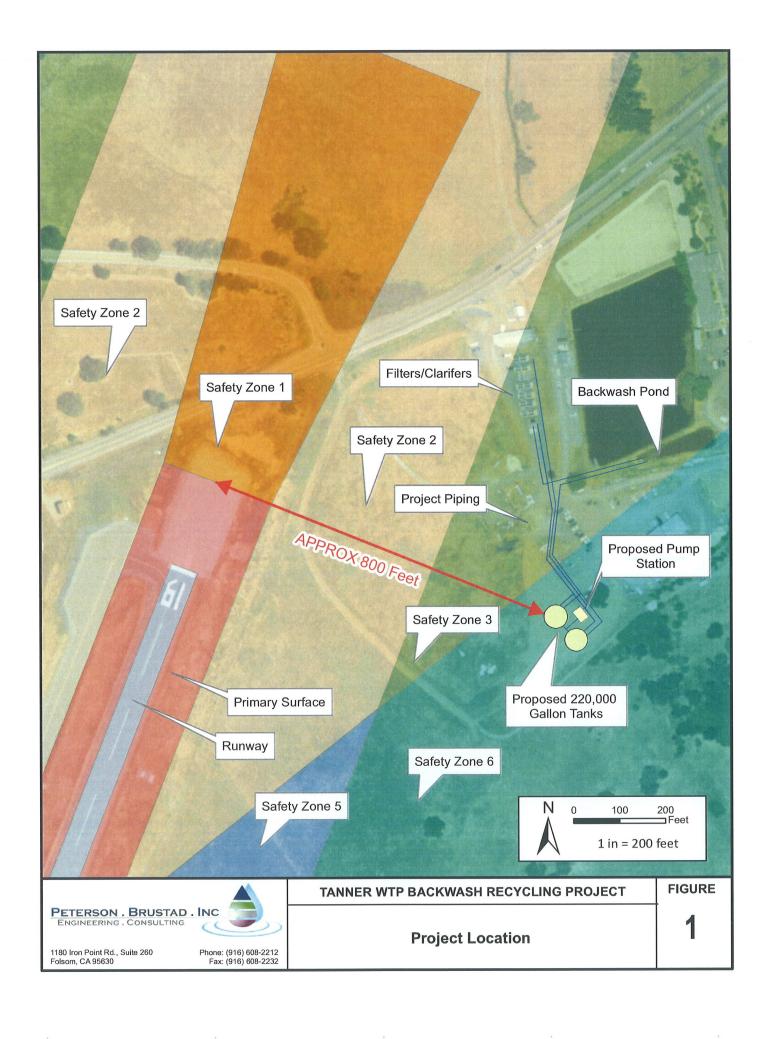
The project will consist of constructing two backwash storage reservoirs and one return pump station designed to return decanted water back to the inlet to the WTP and settled sludge to a solids handling facility. The locations of these facilities with respect to airport safety zones are presented in Figure 1. In addition, the location of these facilities with respect to existing topography are presented in Figure 2. The reservoirs and pump station are to be constructed on existing grade and will have a finished total height of no more than 35 feet above ground level. The proposed tanks will be located in Zone 6 approximately 800 feet away from the runway centerline (675 feet away from the Primary Surface) according to the Westover Field Airport Land Use Compatibility Plan¹. The site was selected to avoid construction within Zone 3 and maximize the clearance beneath the Airspace Protection Zone.

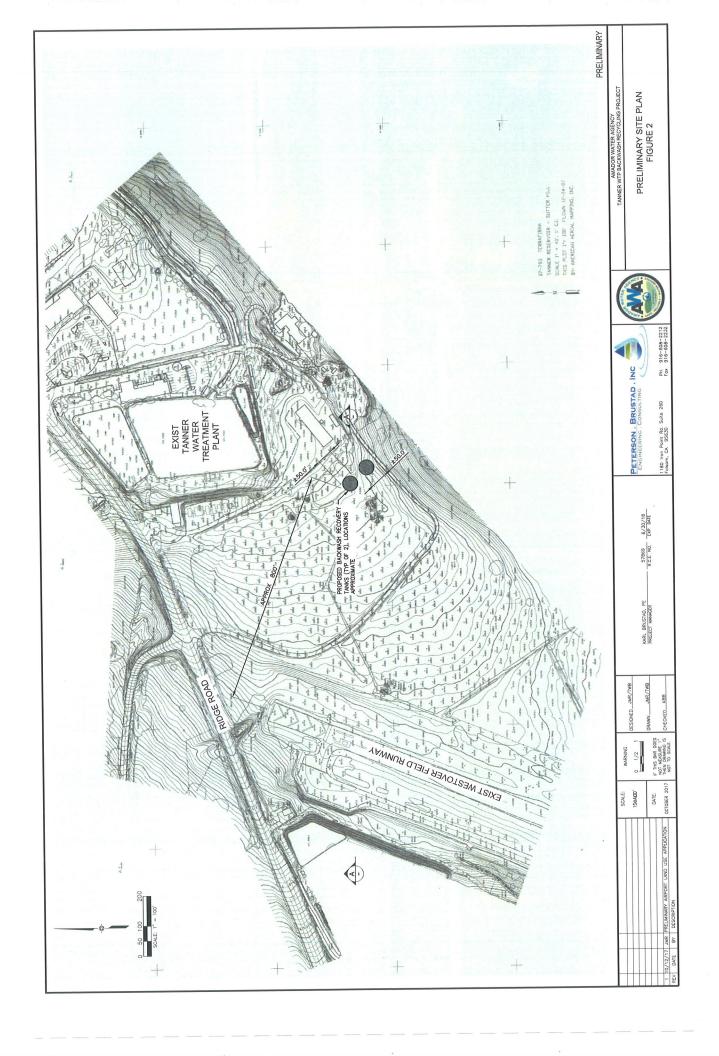
The proposed reservoirs will be approximately 50 to 60 feet wide, and no more than 35 feet tall including ventilation and railings. The height of the proposed facilities are below the Airspace Protect Zone. A preliminary profile of the closest proposed reservoir to the runway is presented in Figure 3.

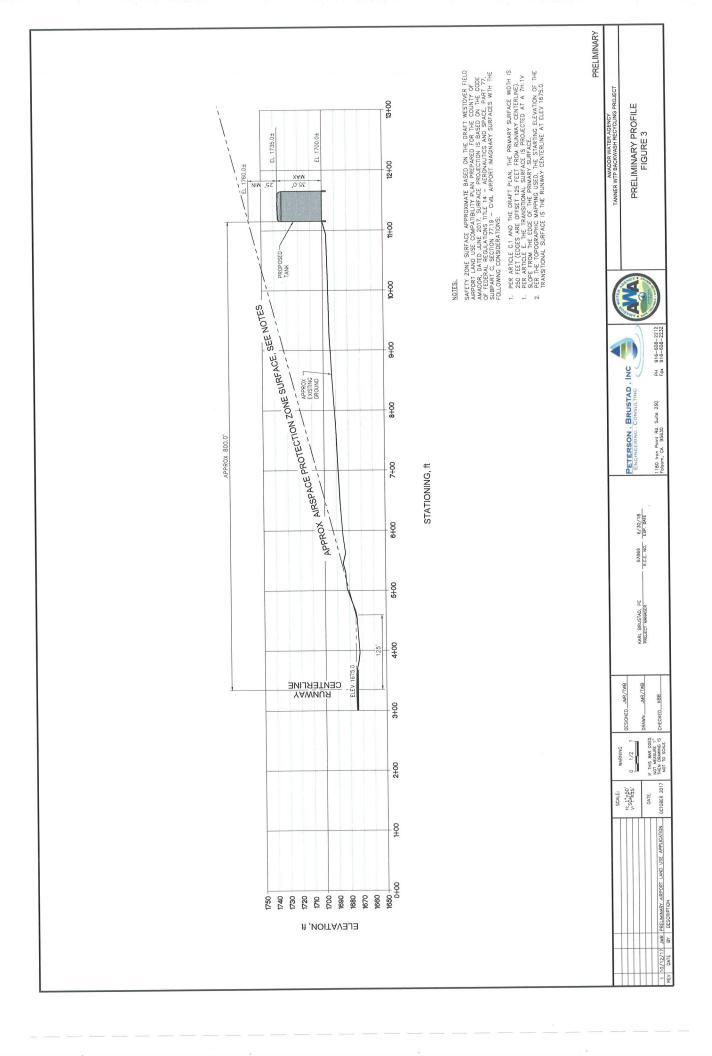
Equipment used in the construction of the reservoirs shall not extend vertically into the Airspace Protection Zone more than 35 feet above existing grade. This requirement will be clearly addressed in the final construction documents and will preserve a minimum of 5 feet of clearance beneath the Airspace Protection Zone.

The ancillary improvements associated with the project will be constructed at or below grade and will not extend above the height of the reservoirs.

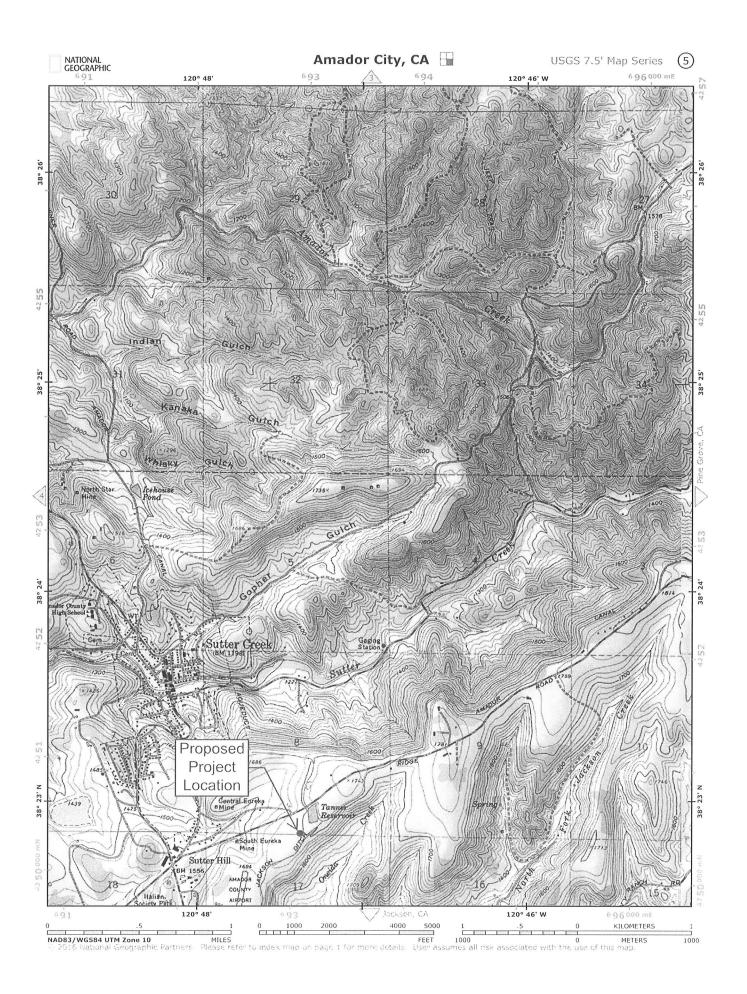
¹ Draft Westover Field Airport Land Use Compatibility Plan, Prepared for the County of Amador, June 2017







Failure To Provide All Requested Information May Delay Processing of Your Notice				FOR FAA USE ONLY
Nation of Dunmond Construction on Alteretion				Aeronautical Study Number
U.S. Department of Transportation NOTICE OF Proposed Construction of Alteration Federal Aviation Administration				
1. Sponsor (person, company, etc. pro	pposing this action):	9. Latitude: 38 • 22	. 50.	9 N "
Attn. of: Damon Wyckoff		120 0.47	. 19	1
Name: Amador Water Agency		10. Longitude: 120 0 47	· <u>19.</u> .	, "
Address: 12800 Ridge Road		11. Datum: NAD 83 NAD	27 🗶 Othe	r
		12. Nearest: City: Sutter Creek		State <u>CA</u>
City: Sutter Creek State: CA Zip: 95685		13. Nearest Public-use (not private-use) or Military Airport or Heliport:		
Telephone: (209) 257-5284 Fax: (209) 257-5295		_Westover Field Airport		
		14. Distance from #13. to Structure: Approx 850 ft from runway		
2. Sponsor's Representative (if other than #1):		15. Direction from #13. to Structure: Northeast		
Attn. of: Karl Brustad		16. Site Elevation (AMSL): 1700 ft.		
Name: Peterson Brustad, Inc.		17. Total Structure Height (AGL): 35 ft.		
Address: 1180 Iron Point Road, Suite 260		18. Overall Height (#16 + #17) (AMSL): 1735 ft.		
		19. Previous FAA Aeronautical Study Number (if applicable):		
City: Folsom State: CA Zip: 95630		-OE		
Telephone: (916) 608-2212, x 113 Fax: (916) 608-2232				
(210) 000 2212, X113	20. Description of Location: (Attach a USGS 7.5 minute Quadrangle Map with the precise site marked and any certified survey)			
3. Notice of: New Construction				
4. Duration: Permanent	See attached quad map, topo map, preliminary site plan, and preliminary			
5. Work Schedule: Beginning April 20	profile exhibit.			
6. Type: Antenna Tower Cra				
Landfill X Water Tank				
7. Marking/Painting and/or Lighting Red Lights and Paint White - Medium Intensity White High Intensity				
White - High Intensity Tother				
8. FCC Antenna Structure Registration Number (if applicable):				
21. Complete Description of Proposal: The Amador Water Agency is proposit	storage reservoirs and associated num	nning and	Frequency/Power (kW)	
piping facilities at the southern limits of	ng treatment plant backwash wastewater. The dual			
		height of no more than 35 feet above ground		
level. The ancillary improvements associated with the project will be constructed at or below grade and will not encroach upon the Westover Field Airport beyond the footprint of the proposed reservoirs, nor will the extend above the height of the reservoirs. The new reservoirs will be complete enclosed with metal roof systems.				
Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 49 U.S.C., Section 44718. Persons who knowingly and willingly violate the notice requirements of part 77 are subject to a civil penalty of \$1,000 per day until the notice is received, pursuant to 49 U.S.C., Section 46301(a)				
I hereby certify that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to mark and/or light the structure in accordance with established marking & lighting standards as necessary.				
Date	Typed or Printed Name and Title of Person Filing	Notice Signature		
October 6, 2017	Damon Wyckoff			





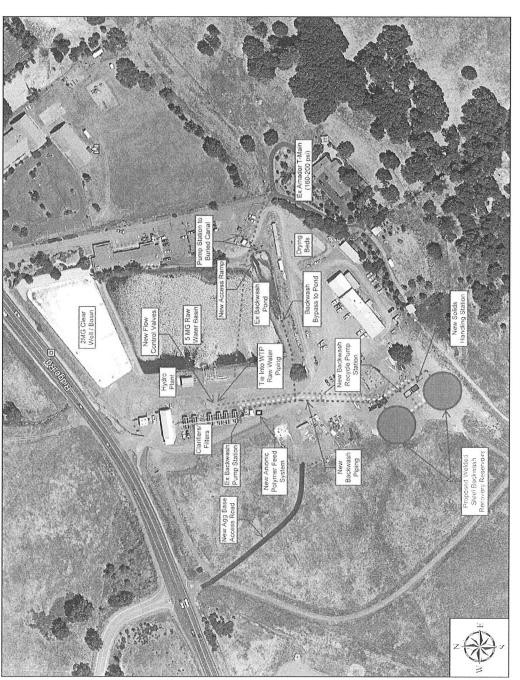
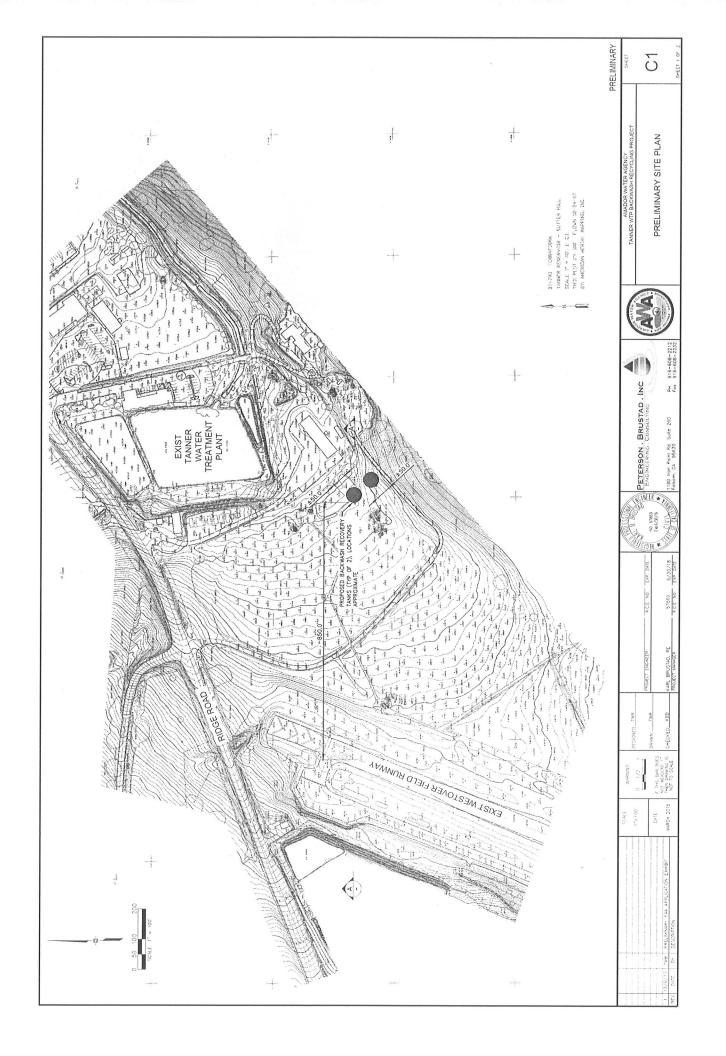
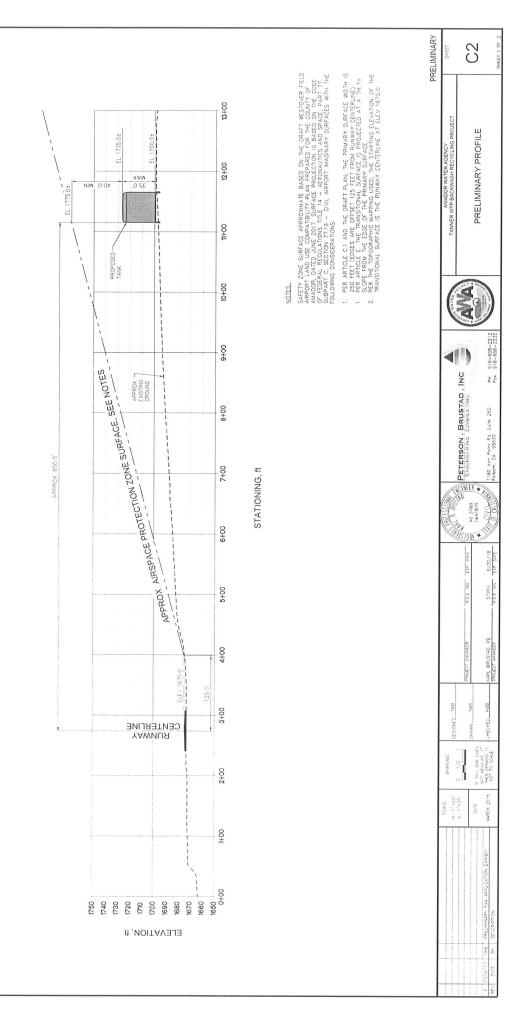


Exhibit: Preliminary Site Plan





DRAFT FOR DELIBERATIVE PURPOSES ONLY

SOURCE USDOT, FAA, 14 CFR Part 77, Safe, Efficient Use and Preserv

Amador County Westover Field ALUCP . 211961 Figure 3-3 14 CFR Part 77 Imaginary Surfaces