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		COMMON: WAIALUA AGRICULTURAL COMPANY ENGINE NUMBER 6								
		WATALUA AGRICULTURAL COMPANY ENGINE NUMBER 6								
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	2.	2. LOCATION STREET AND NUMBER:								
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0 _		Site Structure	🕱 Private 🗆 Both	🔲 In Pro	cess Considered	K Unoccupied	Restricted	а		
⊢		X Object	_ Both		Considered	Preservation wor in progress	K No			
U PRESENT USE (Check One or More as Appropriate)							<u>-</u> L			
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2		Commercial Industrial Private Residen S Educational Military Religious			ence	ce Other (Specify)				
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z	4.	OWNER OF PROPERTY				- April 1				
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DESCRIPTION	(Check One)		
	🕅 Excellent 🗌 Good 📋 Fair 🔲 Deteriorated 🗌 Ruins 🗌 Unexposed		
CONDITION	(Check One) (Check One) (Check One) (Check One) (Check One) (Check One)		
DESCRIBE THE PE	RESENT AND ORIGINAL (<i>if known</i>) PHYSICAL APPEARANCE		
It is a	a O-6-2T ¹ Baldwin Locomotive Works Type Class 8-16, 2/3 D,		
	ng, steam-powered locomotive built to operate on narrow-		
guage (36-	-inch) track.		
	in fully operational condition, and has been restored to its appearance.		
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	in the second states a substance of particular and the second states and the second states and the second states		
1	-6-2T designation is an adaption of the Whyte System for classi-		
fication a success	of locomotives and is based on wheel arrangement. It employs ion of numbers to indicate (1) the number of front truck wheels,		
(2) the number of coupled driving wheels, each set being numbered in dividually, and (3) the number of back truck, or trailing wheels. any of these wheels are absent, a zero is placed in that space. The			
two (2) b	ack trucks, or trailers, (0-6-2). The letter "T" placed after number stands for "tanker," and indicates that the locomotive		
is a sadd	le-tank type, with the water tank built so that if fits like		
	over the boiler.		
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REAS OF SIGNIFICANCE (Che	ck One or More as Appropri	ate) .	
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Communications	Military	Theater	
Conservation	Music	X . Transportation	

The Waialua Agricultural Company Engine Number 6 is an excellent type example of the steam-powered locomotives used on Hawaiian plantations during the late 19th and early 20th centuries. It is also the only locomotive designed and built in Hawaii, and is the only fully operational and authentically restored Hawaiian sugar plantation locomotive in the world.

The reason for being of Hawaii's railroads, common carrier and private line, in the 19th and early 20th centuries can be stated in one word: sugar. As sugar plantations developed in the Islands, the need for an efficient and cheap means of transportation from the cane from the fields to the mills, and bulk sugar from the mills to the harbors soon became apparent. When the 1876 Reciprocity Treaty between the Hawaiian monarchy and United States government was concluded, the vast American market was opened free of tariffs to Hawaiian sugar producers, and the need for improved transportation in the Islands became critical. The Kalakaua administration responded to these needs with the Railway Act of 1878. This act was designed to aid in the construction of railroads throughout the kingdom. The Kahului and Wailuku Railway on Maui was the first common carrier built, in 1879, followed by the Hawaiian Railroad Company on the Big Island (1880), the Oahu Railway and Land Company (1888), and the Hawaii Consolidated Railway on Hawaii (1899).

These common carriers linked towns to each other, and towns to harbors. They carried freight and passengers, but their most important was sugar. As these companies snaked their tracks out to previously isolated areas, large scale agricultural development followed close behind. As plantations were chartered and the lands cultivated, the plantation railroads came into being. These were rail lines built on the actual plantations to connect the fields and link up with the common carriers to get the sugar down to harbors for shipment to the United States and other, minor markets.

They were specialized lines, generally using narrow-guage fixed and portable tracks and tough little steam locomotives to pull cane cars, bargasse cars, and cars filled with workers here and there on the plantations.

On Oahu, the Waialua Agricultural Company was reorganized as a plantation in 1889 by B. F. Dillingham, developer of the Oahu Railway and Land Company, and the Castle and Cook Company. The property had been used for sugar cultivation on a relatively small scale since 1836. (continued)

MAJOR BIBLIOGRAPHICAL REFERENCES		1			
	Current Theorem Name Constant				
Conde, Jesse C., and Best, Gerald M.	, <u>Sugar Trains: Narrow Guage Rails of</u>				
Hawaii (Felton, California, Glenwood Publishers), 1973.					
Hungerford, John B., <u>Hawaiian Railroads</u> : <u>A Memoir of the Common Carriers</u> of the Fiftieth State (Reseda, California: Hungerford Press), 1963.					
"The Aloha Locomative " DuPont Pofi	nichom Nova No. 181 (Jume July 1072)				
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(8. Significance, continuation sheet #1)

A railway was surveyed immediately after the reorganization, and by 1901. 24 miles of fixed track of a narrow guage (36-inch) compatible with that of Dillingham's Oahu Railway and Land Company was in place. In addition, two locomotives, both Baldwin Locomotive Works (Philadelphia, Pa.) 0-6-0T's were in operation.

Both the plantation and its railway continued to grow during the period before World War I. By 1908, the three main sections of the plantation: Waialua, Helemano, and Kawailoa, were connected by rail. After that, much time and money was spent in improving the line by straightening curves, filling trestles, and replacing worn rails and ties. By 1910, there were 30 miles of fixed track carrying five locomotives and 600 cane cars.

In 1916, the company purchased some extra boilers from the Baldwin Locomotive Company works in Philadelphia. The reason for this purchase was not to repair existing rolling stock, but to construct an entirely new locomotive. Between 1916 and 1919, Locomotive # 6 was built in the Waialua Agricultural Company shops by employees. It was built along the familiar lines of a Baldwin Company "saddle tanker" locomotive, a type widely used then on Hawaiian sugar plantations. When completed, it was not a "tin can and baling wire" job, but a well-designed, functional piece of equipment. It remained in constant service from 1919 to 1952. with only one instance of major maintenance, in 1931, when a new boiler was installed.

The Waialua Agricultural Company began to phase out its railroad in favor of rubber tired trucks as early as 1946. However, it was not until 1952 that the transition was complete. Large "Tournahauler" diesel trucks capable of carrying heavy loads across rough terrain at less cost then replaced the entire railroad operation.

Engine # 6 was placed in a park near the company's mill as an exhibit. It remained there for 19 years, steadily deteriorating due to vandalism, weather, and lack of maintenance. In 1971, the company decided to haul it away and cut it up for scrap.

At that point, the Hawaii Chapter of the Railroad Historical Society offered to take over the locomotive and restore it to its original The Wailalua Agricultural Company agreed to the transfer condition. on condition that the restoration would be completely authentic. The Railroad Historical Society (now the Hawaiian Railway Society) took the engine to the Lualualei Naval Ammunition Depot, west of Honolulu, where existing railroad storage and repair facilities were volunteered by the U. S. Navy.

On February 21, 1971, the actual restoration work began, and by November 1972, the locomotive had been restored to its original appearance and was again in operating condition. It was run for a time on a small section of track within the depot by the Society for its members on weekends, but this practice was recently banned by the Navy. The Navy has ordered the Society to remove the engine from its property this year, and once again, its future is somewhat in doubt.