



# Bell County WCID #1

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Background, Regional Role,  
Current Issues

# Bell County WCID #1

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- The Beginnings – Camp Hood
- WCID 1 Creation and background
- Current District Boundary and Precincts
- WCID 1 facilities and services
- Water Supply and Outlook



# BACKGROUND

## THE BEGINNING-FORT HOOD



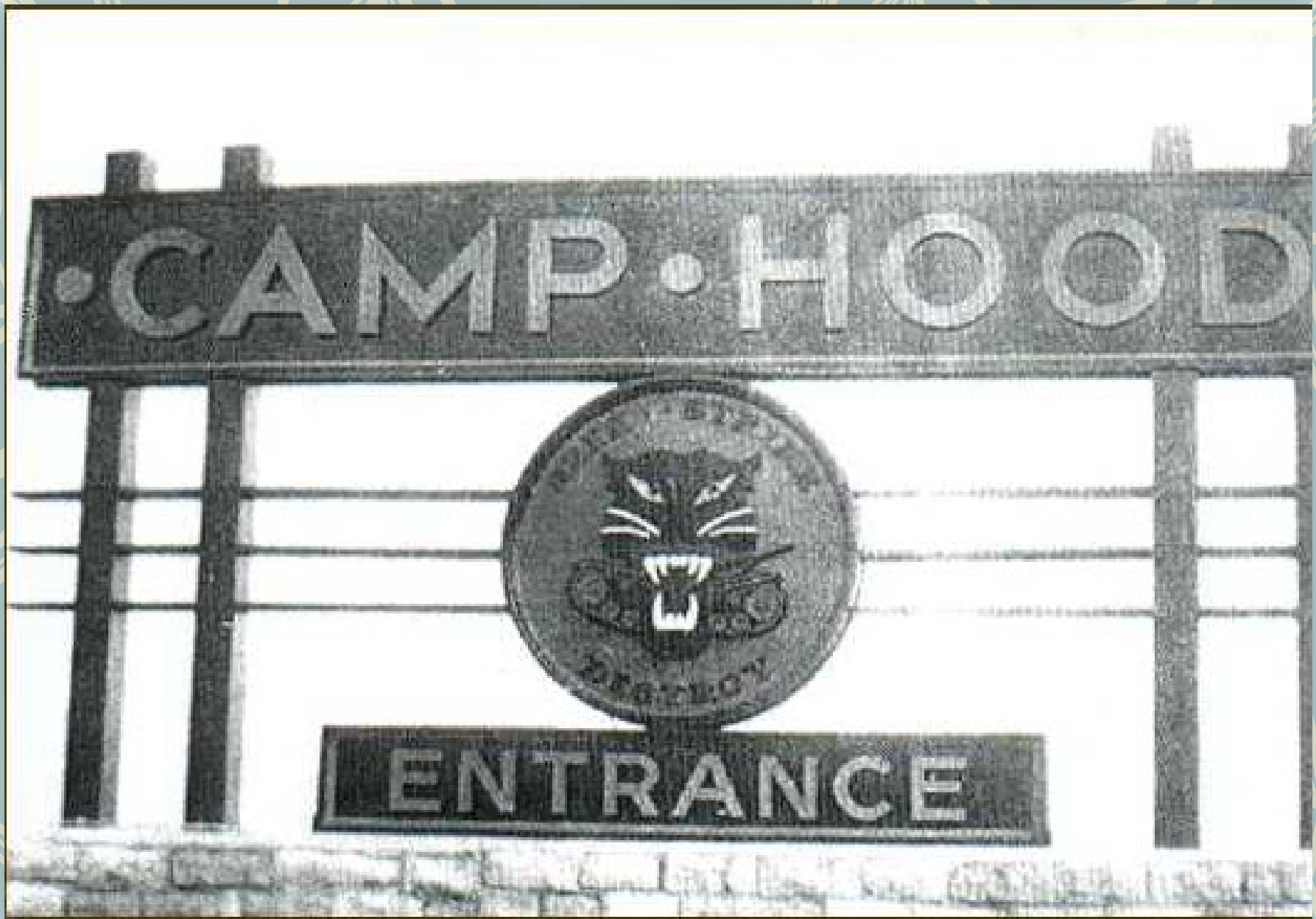
### Fort Hood

[Killeen, Texas](#)

The War Department announced the selection of Camp Hood in January 1942. Most utilities were in place by August 1942.

Type	Army post
Coordinates	<span><span><span><span><span>31°08′N</span> <span>97°47′W</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>31.13°N 97.78°W</span><span><span>﻿</span> / <span>31.13; -97.78</span></span></span></span><span><span>Coordinates: <span><span><span><span>31°08′N</span> <span>97°47′W</span></span></span><span><span>﻿</span> / <span>﻿</span></span><span><span>31.13°N 97.78°W</span><span><span>﻿</span> / <span>31.13; -97.78</span></span></span></span></span></span></span>
Built	1942

Camp received water from a transmission line on the Lampasas River near the Dam on Lake Stillhouse.



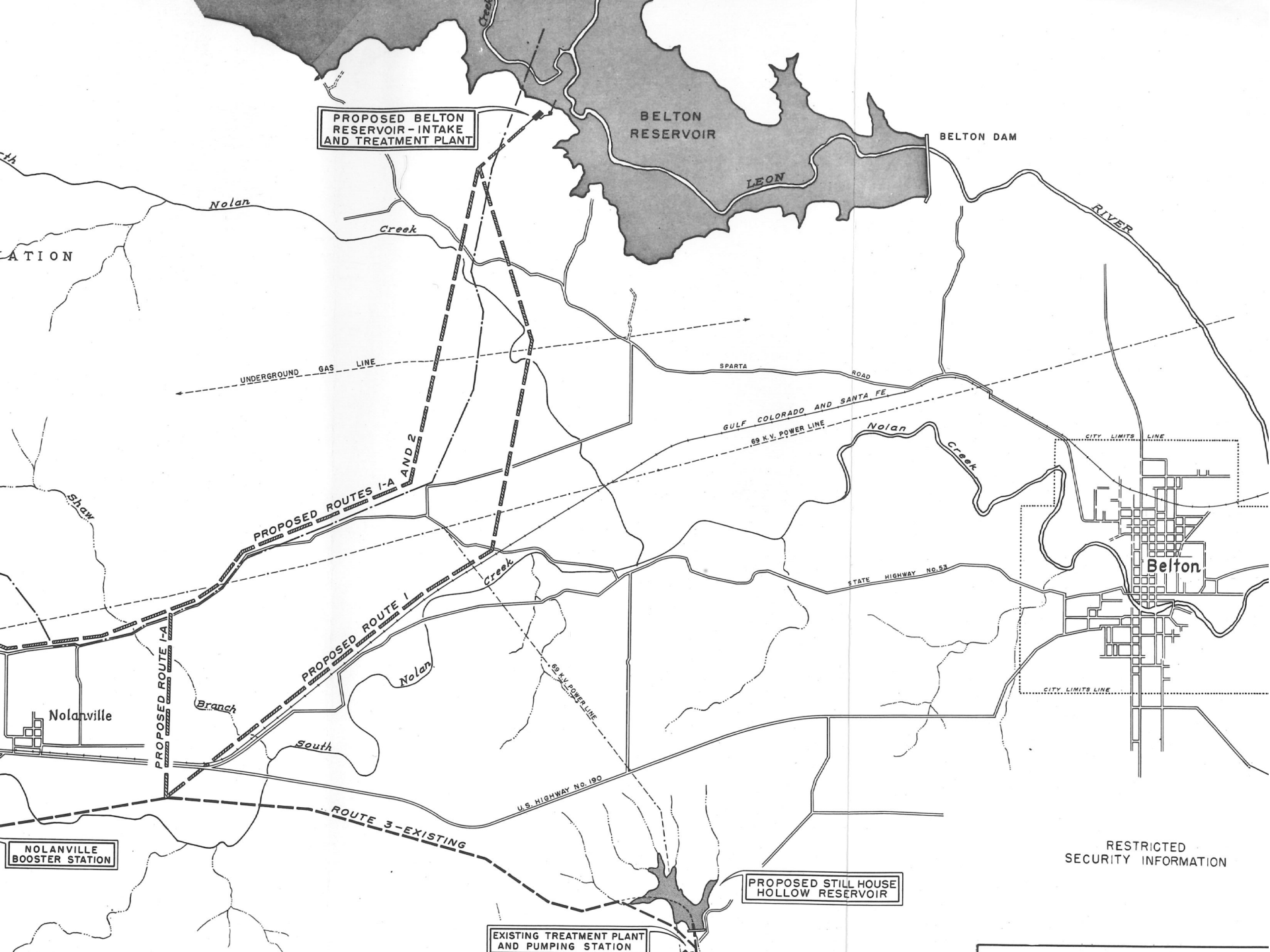
CAMP HOOD



ENTRANCE







PROPOSED BELTON  
RESERVOIR - INTAKE  
AND TREATMENT PLANT

BELTON  
RESERVOIR

BELTON DAM

LEON

Nolan

Creek

RIVER

ATION

UNDERGROUND GAS LINE

SPARTA ROAD

GULF COLORADO AND SANTA FE  
69 K.V. POWER LINE

Nolan  
Creek

CITY LIMITS LINE

PROPOSED ROUTES 1-A AND 2

PROPOSED ROUTE 1

STATE HIGHWAY No. 53

Belton

CITY LIMITS LINE

Nolanville

Branch

South

U.S. HIGHWAY No. 190

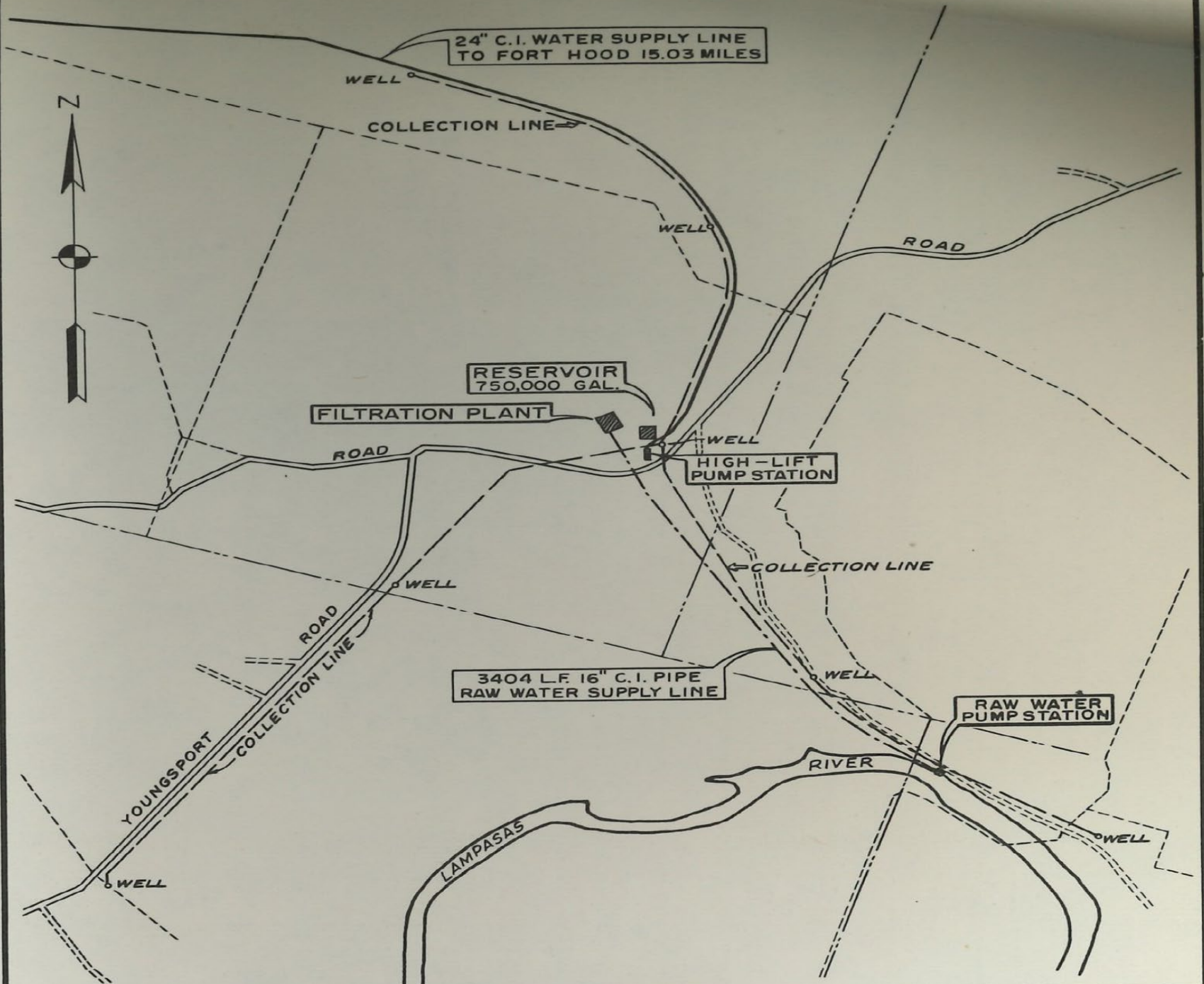
ROUTE 3 - EXISTING

NOLANVILLE  
BOOSTER STATION

PROPOSED STILL HOUSE  
HOLLOW RESERVOIR

EXISTING TREATMENT PLANT  
AND PUMPING STATION

RESTRICTED  
SECURITY INFORMATION



24" C.I. WATER SUPPLY LINE  
TO FORT HOOD 15.03 MILES

RESERVOIR  
750,000 GAL.

FILTRATION PLANT

HIGH-LIFT  
PUMP STATION

3404 LF 16" C.I. PIPE  
RAW WATER SUPPLY LINE

RAW WATER  
PUMP STATION



WELL

COLLECTION LINE

WELL

ROAD

ROAD

WELL

COLLECTION LINE

WELL

ROAD

COLLECTION LINE

WELL

RIVER

LAMPASAS

WELL

YOUNGSPORT

WELL



PERMANENT WATER SUPPLY  
FOR FORT HOOD, TEXAS

I INTRODUCTION

1-01. Purpose and Authority. This is the report of an engineering study and economical analysis of various means for developing a permanent water supply for Ft. Hood, Texas. The report has been prepared in conformity with the terms of a contract for the required professional services between the Consulting Engineers and the District Engineer, Ft. Worth District, Corps of Engineers, U. S. Army, dated 17 June 1952, and designated as Contract DA-41-443-eng-1584.

1-02. Background for the Study. Ft. Hood was originally established as a temporary camp in 1942. Its original water supply was developed from seven wells located in an area near Stillhouse Hollow, southwest of the City of Belton, and about 15 air miles from Ft. Hood. These wells discharged into a ground reservoir in the center of the well field, from which water was pumped to Ft. Hood through some 15 miles of 24-inch pipeline. The situation of the well field and pumping facilities is shown in Plate 1. The capacity of the field was about four million gallons daily.

1-03. In 1943, due to the need for a better quality of water, a surface supply was developed from the Lampasas River. Pumping and treatment works having a nominal capacity of four million gallons daily were located so as to deliver treated river water to the reservoir and pumping station served by the wells. Either of these sources of water was adequate during the war years - 1942-1945, from the standpoint of quantity, but the flow on the Lampasas River during the summer months was often inadequate to supply the peak-day demand of the camp, although this demand was less than the design capacity of the treatment works. For this reason it has been necessary to maintain the well system as a supplementary source.

1-04. In 1948, the camp was designated as Fort Hood, a permanent post. The adjacent town of Killeen, which had been served with water by the Ft. Hood system since 1943, experienced a very rapid increase in population. From a population of about 1100 in 1942 the town has now

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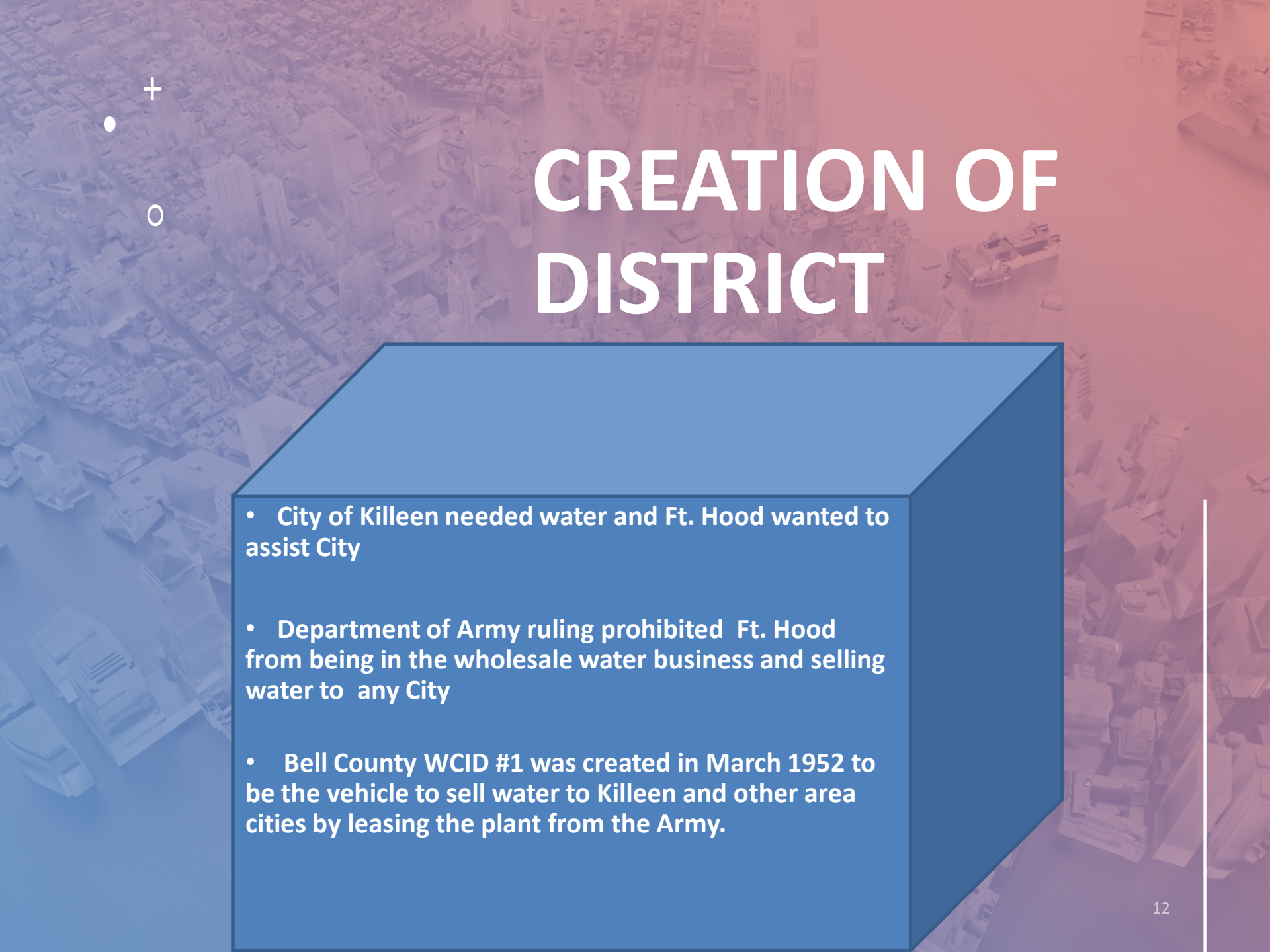
**Table**  
**Population Change**

**The Region**

<b>Place</b>	<b>1940</b>	<b>1950</b>	<b>1960</b>	<b>1970</b>	<b>1980</b>	<b>1990</b>	<b>2000</b>	<b>2010</b>	<b>2020</b>
Copperas Cove	356	1,052	4,567	10,818	19,469	24,079	29,592	32,032	36,670
Harker Heights	N.I.	N.I.	N.I.	4,216	7,245	12,841	17,308	26,700	33,097
Belton	3,572	6,246	8,163	8,696	10,660	12,476	14,623	18,216	23,054
Temple	15,344	25,467	30,419	33,431	42,483	46,109	54,514	66,102	82,073
Killeen	1,268	7,045	23,377	35,507	46,296	63,535	86,911	127,921	153,095
Bell County	44,863	73,824	94,097	124,483	157,889	191,088	237,974	310,235	370,647

N.I. - Not Incorporated

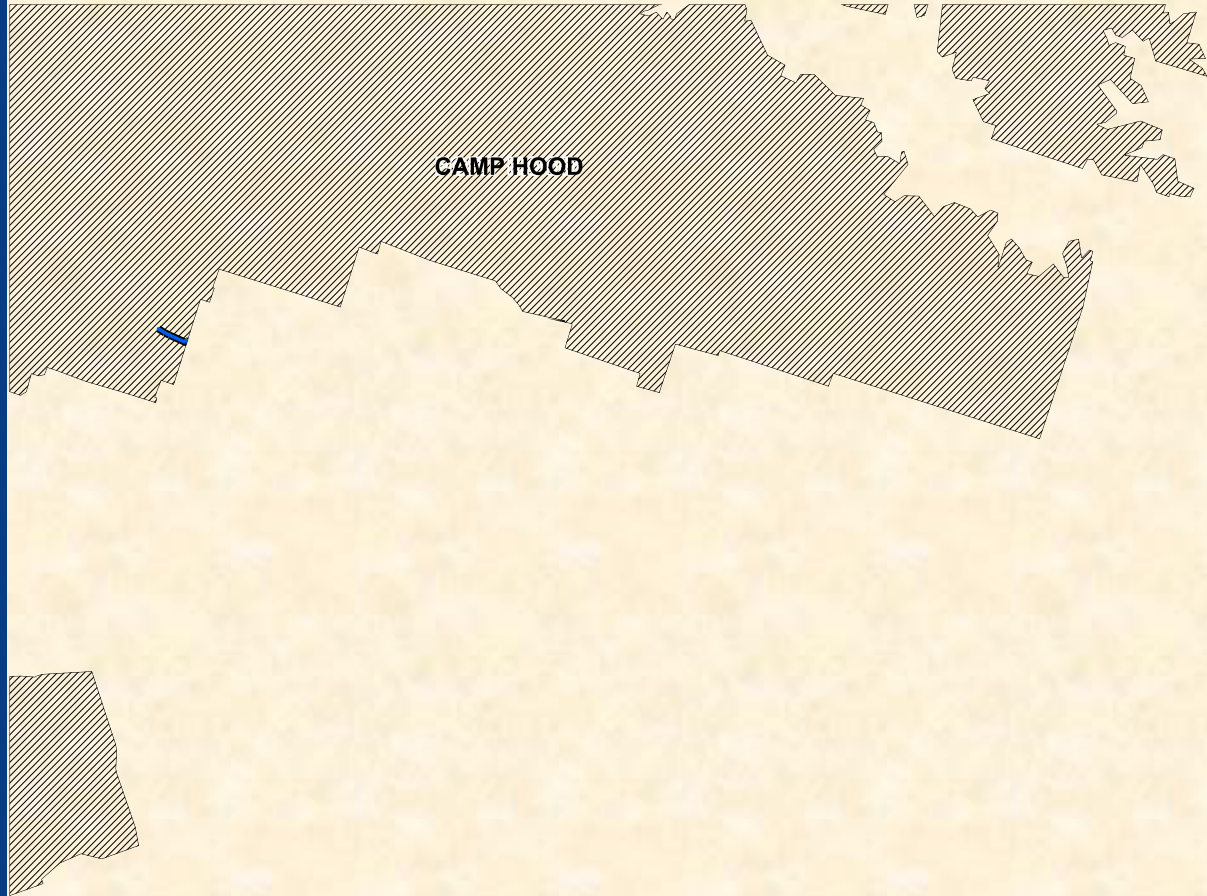
Source: U.S. Census



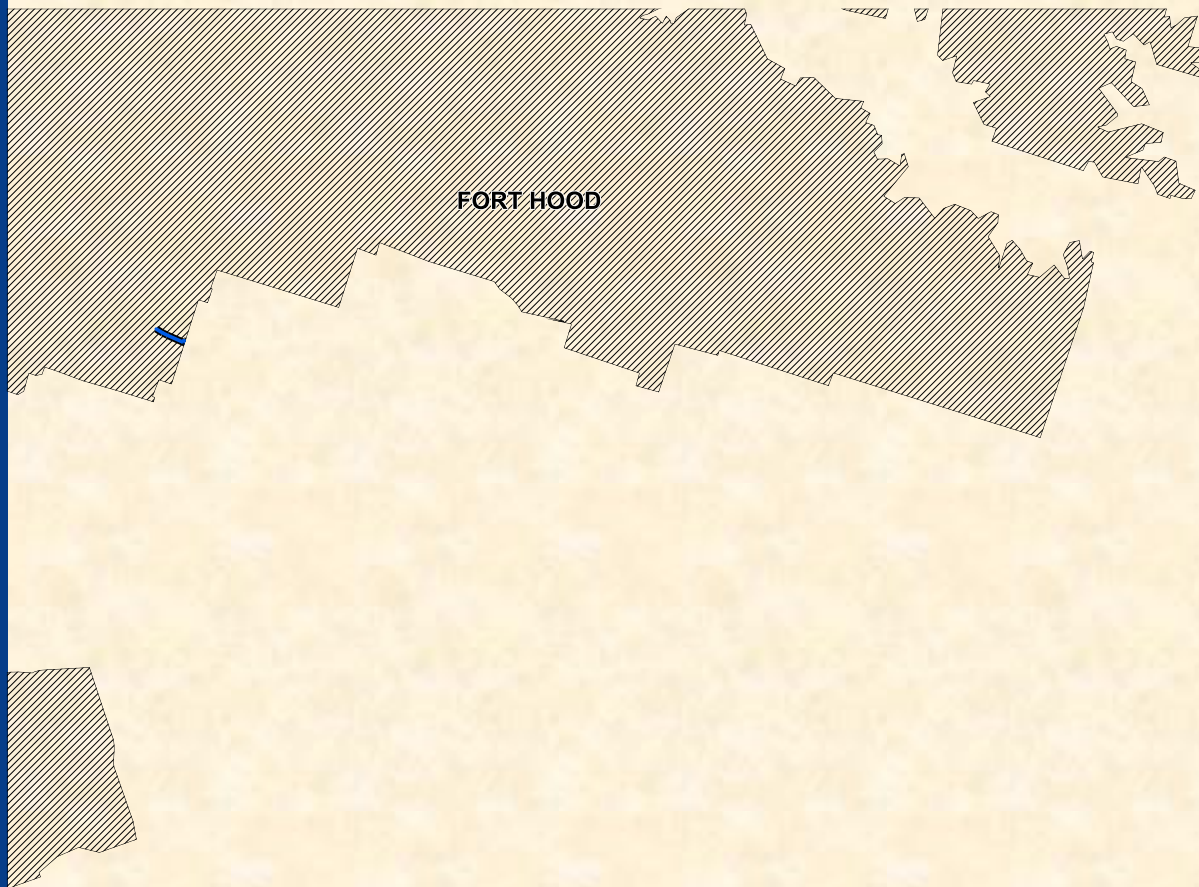
# CREATION OF DISTRICT

- **City of Killeen needed water and Ft. Hood wanted to assist City**
- **Department of Army ruling prohibited Ft. Hood from being in the wholesale water business and selling water to any City**
- **Bell County WCID #1 was created in March 1952 to be the vehicle to sell water to Killeen and other area cities by leasing the plant from the Army.**

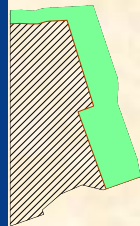
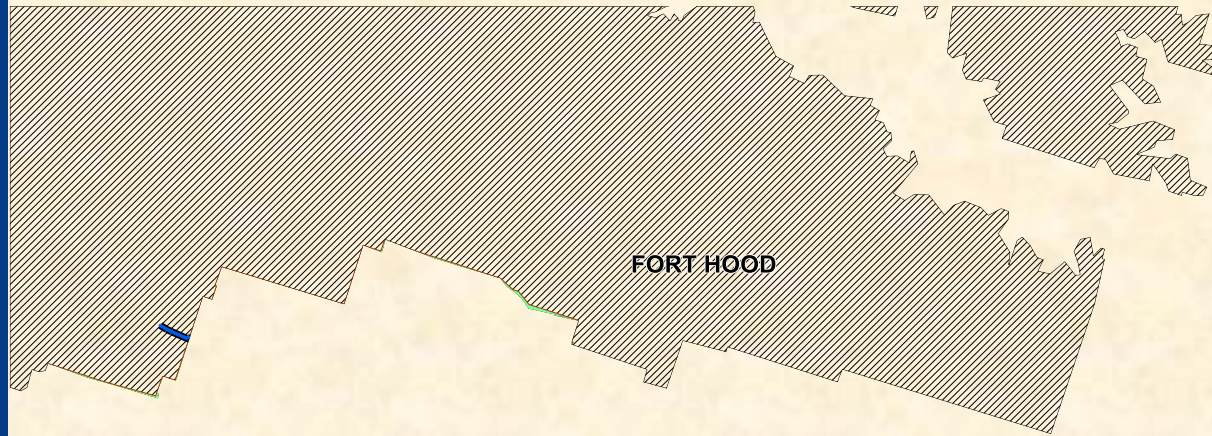
FIRST FT.  
HOOD  
WATER  
MAIN



FROM  
FREESE,  
NICHOLS,  
TURNER  
STUDY;  
PLANT  
AND  
PIPELINE  
1954



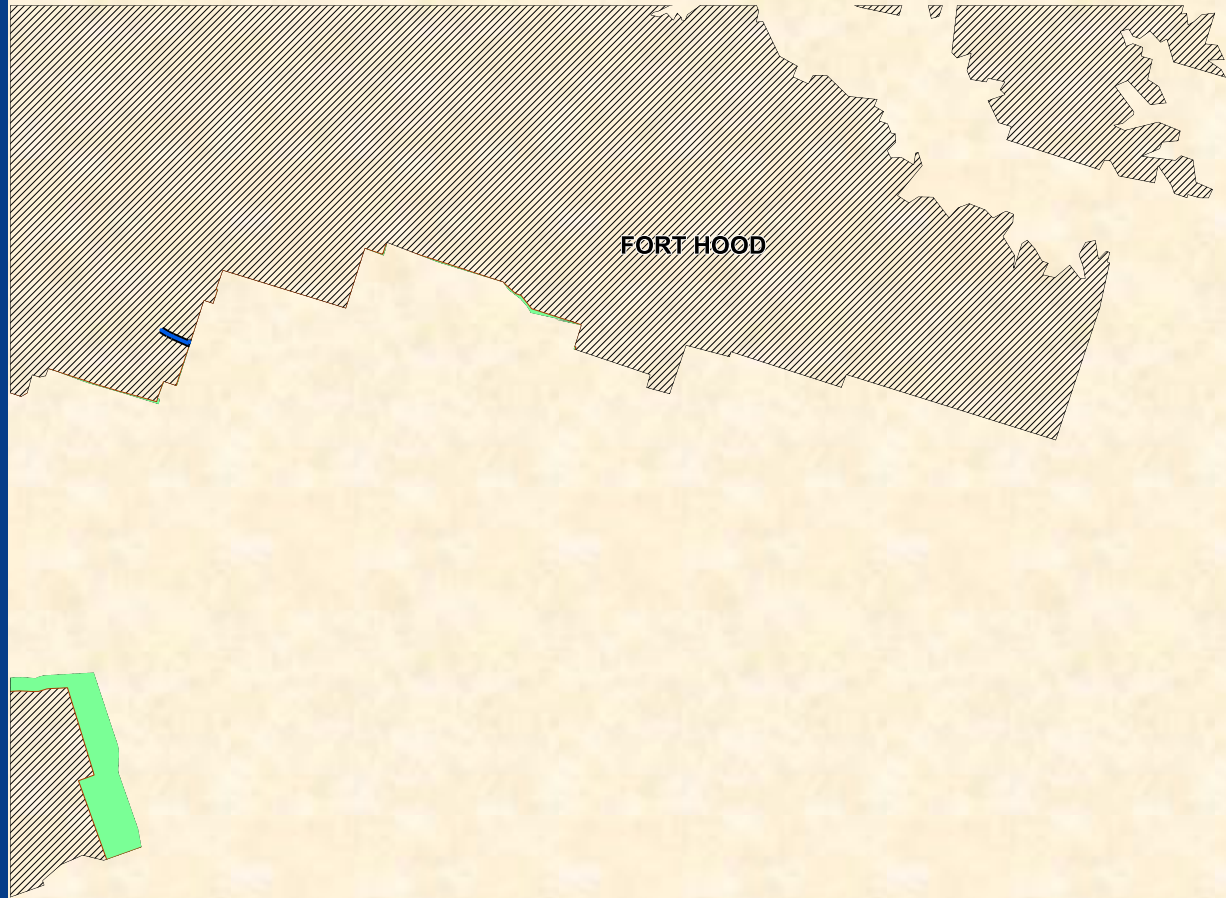
FT HOOD  
SVC  
CONTRACT  
SEPT 1955,  
FACILITIES  
LEASE FEB.  
1956,  
KILLEEN  
AND  
COPPERAS  
COVE  
SERVICE  
CONTRACTS  
APRIL 1956



1956

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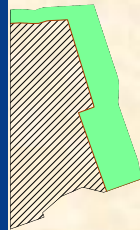
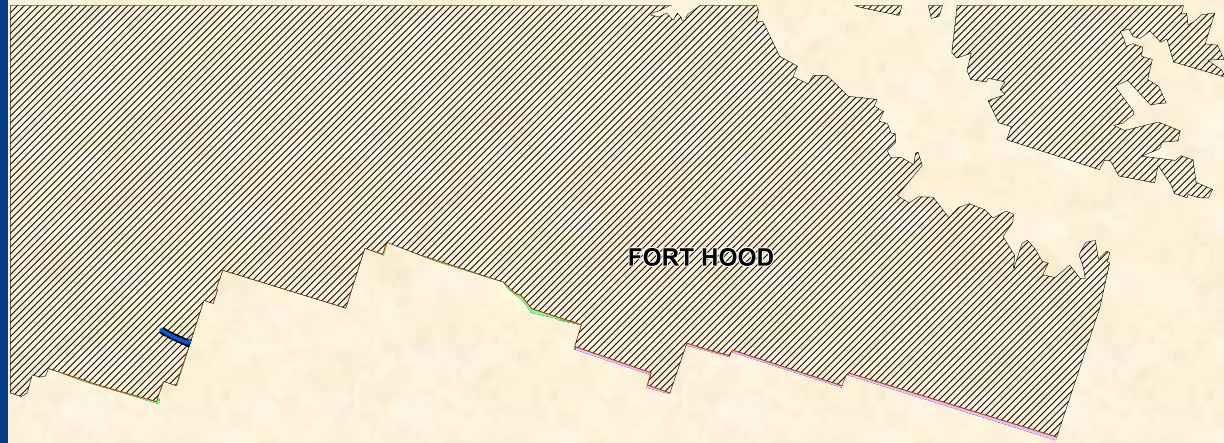
1959





1968

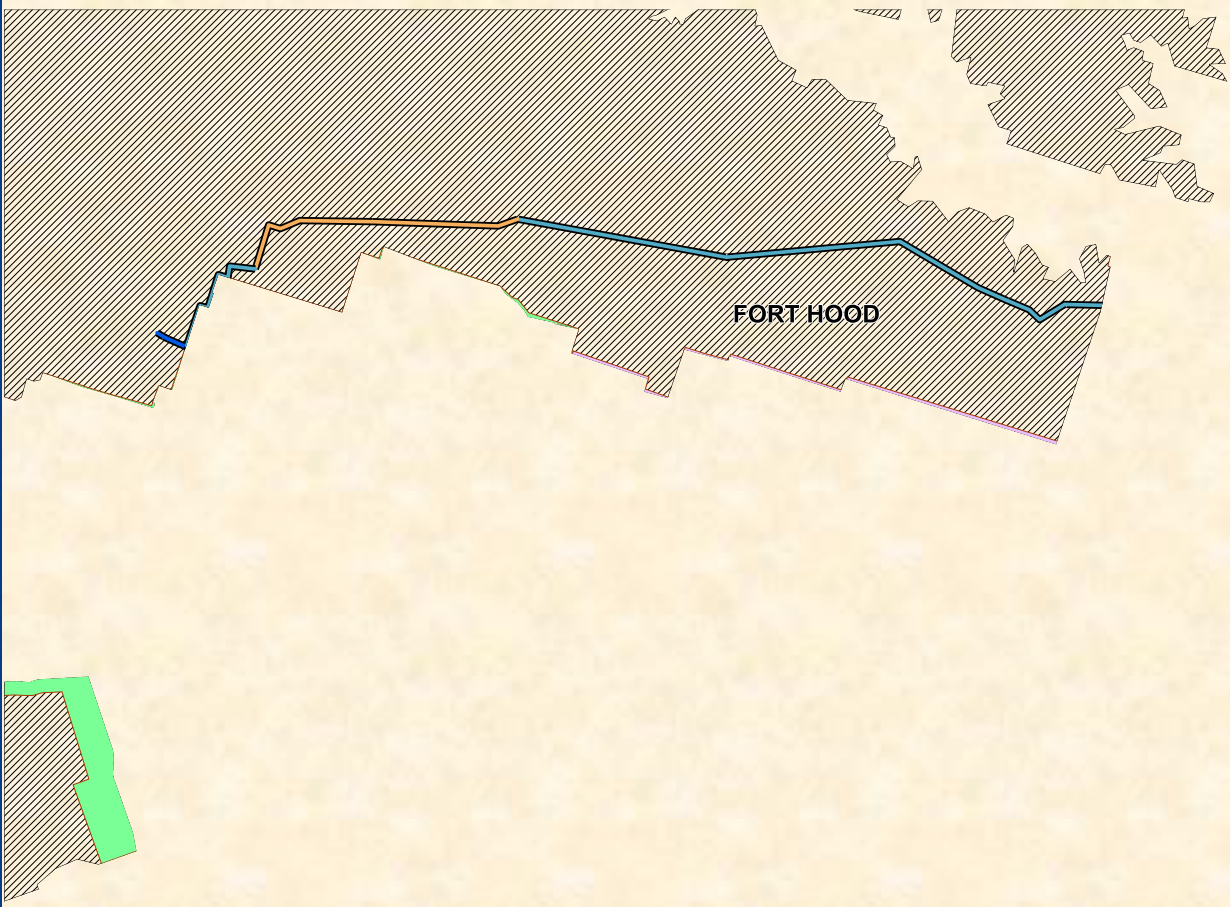
BEGAN  
SEWER  
CONTRACT  
WITH FT.  
HOOD AND  
KILLEEN



1956

rvise in

1975  
48-INCH  
WATER  
LINE

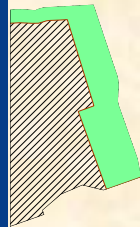
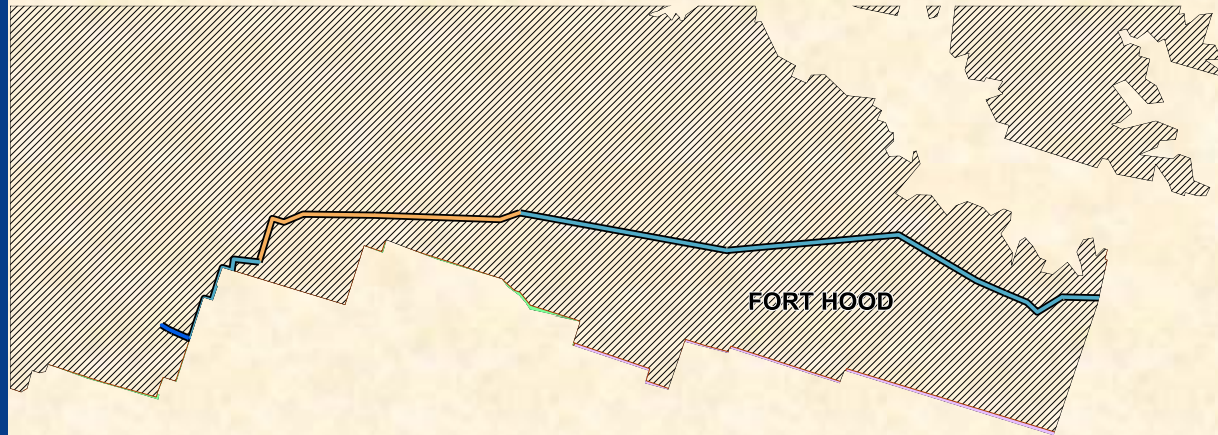


2007

SOUTH  
WWTP OFF  
CHAPARRAL  
RD

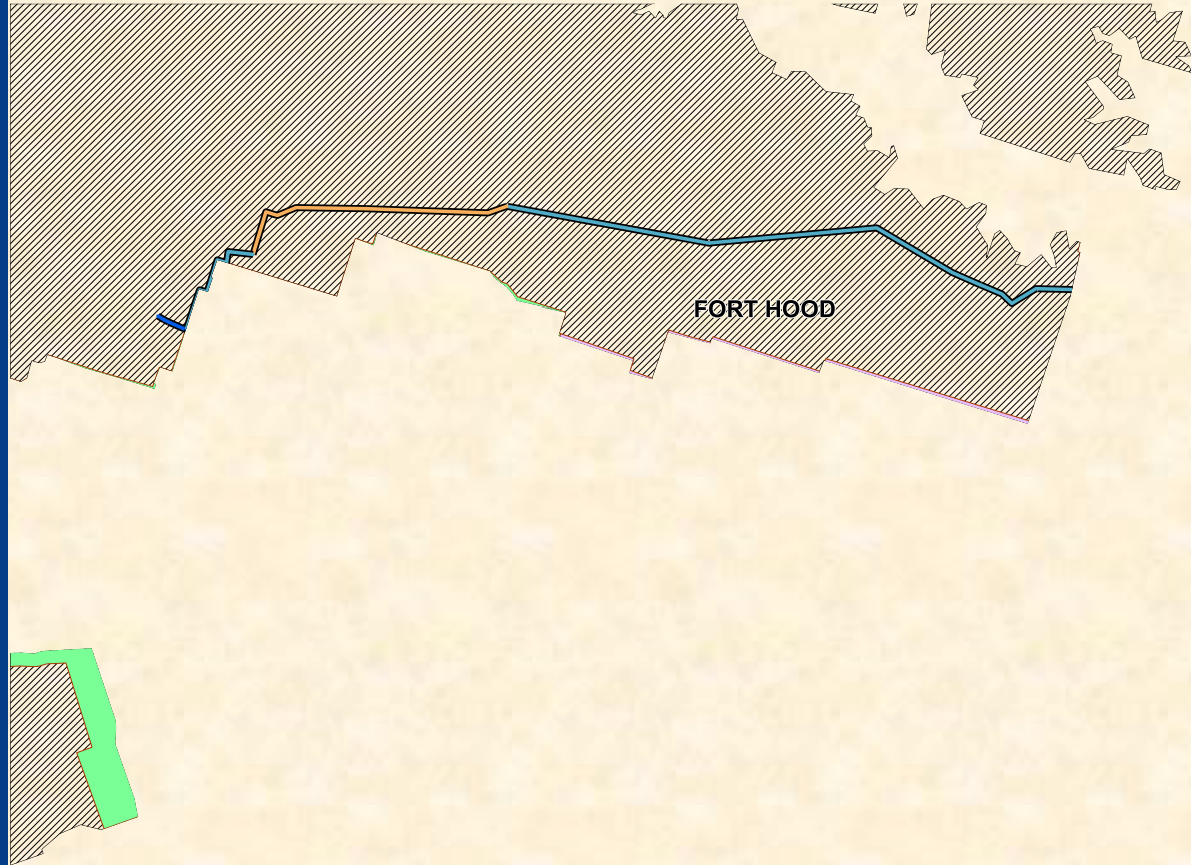
2011

REGIONAL  
COMPOST  
FACILITY  
OFF HWY  
195



JULY 2021

THE  
STILLHOUSE  
WTP AND  
TRANSMISSION  
MAIN  
ONLINE

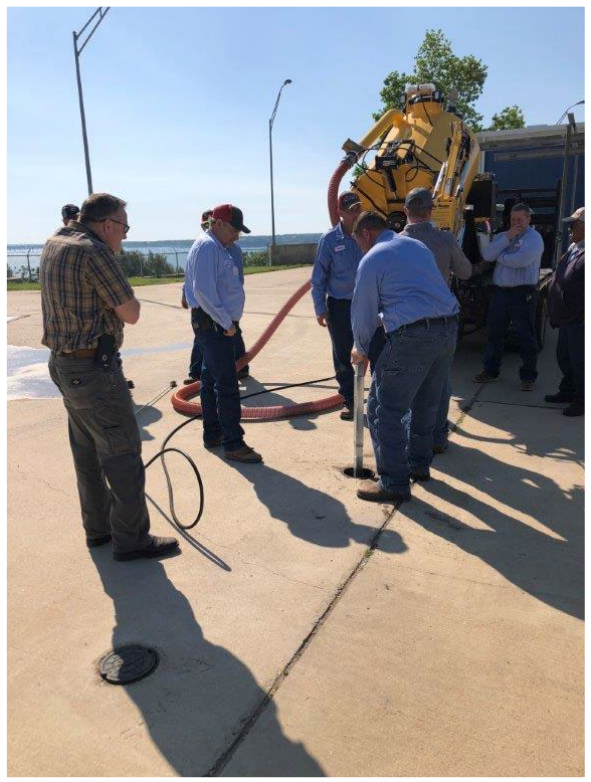


1956

e in



# BELTON WTP



38<sup>th</sup>  
STREET  
WWTP



# SOUTH WWTP





REGIONAL  
COMPOST  
FACILITY



# STILLHOUSE WTP





# Bell County WC&ID No. 1 History

- Formed in 1954 under the Texas Water Code to provide water to Fort Hood and the surrounding civilian communities.
- Now serves the following customers with wholesale treated water supply
  - Fort Hood
  - City of Killeen
  - City of Harker Heights
  - City of Belton
  - City of Copperas Cove
  - 439 Water Supply Corporation
  - Bell County WC&ID No. 3
- Also provide wholesale wastewater treatment services to Fort Hood and the City of Killeen

# Board of Directors

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The District is governed by a Board of Directors

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Until September 2019, the Board consisted of five members who must have property within the District's Boundaries

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In 1954 the District's Boundaries were the City of Killeen's city limits. The boundary was expanded in 1984 to match the expanded city limits.

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The 2019 Texas Legislature revised the District's enabling legislation to expand its boundaries and increase the Board to seven members







# Finished Water

A PHOTOGRAPHIC PROFILE

<https://doi.org/10.1002/opfl.1595>



A slanted tube intake assembly (inset) was installed at Stillhouse Hollow Lake, providing a new supply source for Bell County, Texas, residents with the completion of the new Lake Stillhouse Water Treatment Plant.

## LAKE STILLHOUSE WATER PLANT PROVIDES ADDITIONAL WATER SOURCE FOR 300,000 TEXAS RESIDENTS

Bell County, Texas, located some 50 miles north of Austin, is fortunate to have not one but two water supply reservoirs that are part of the Brazos River system. Belton Lake lies in the northwest portion of the county and is one of the largest water supply reservoirs in the Brazos River Authority system. Stillhouse Hollow Lake is on the county's southwest quadrant. The new Lake Stillhouse Water Treatment Plant represents a new supply source for the customers of Bell County Water Control & Improvement District #1 (WCID #1). Formed in 1952 to serve Fort Hood and its surrounding civilian communities, WCID #1 serves about 310,000 people primarily in central and west Bell County. The cities

of Killeen, Harker Heights, Copperas Cove, and Nolanville sponsored the construction of the Lake Stillhouse Water Treatment Plant to serve their growing populations.

### PROJECT SPECIFICS

**Project Name:** Lake Stillhouse Water Treatment Plant

**Operator/Contractor:** Bell County WCID #1/CSA Construction, Houston

**Designer:** CDM-Smith, Austin, Texas

**Completion Date:** July 1, 2021

**Water Source:** Lake Stillhouse Hollow

**Technology:** Conventional surface water treatment

**Project Cost:** \$39 million

**Service:** The plant delivers 17 mgd of

high-quality drinking water and was designed to expand to 34 mgd at build out.

**Physical Size:** The plant includes two sedimentation trains and four conventional dual media filters. The project also includes a dual slant tube intake and about 3,500 feet of 36-inch raw water line.

**Staff Size:** 5

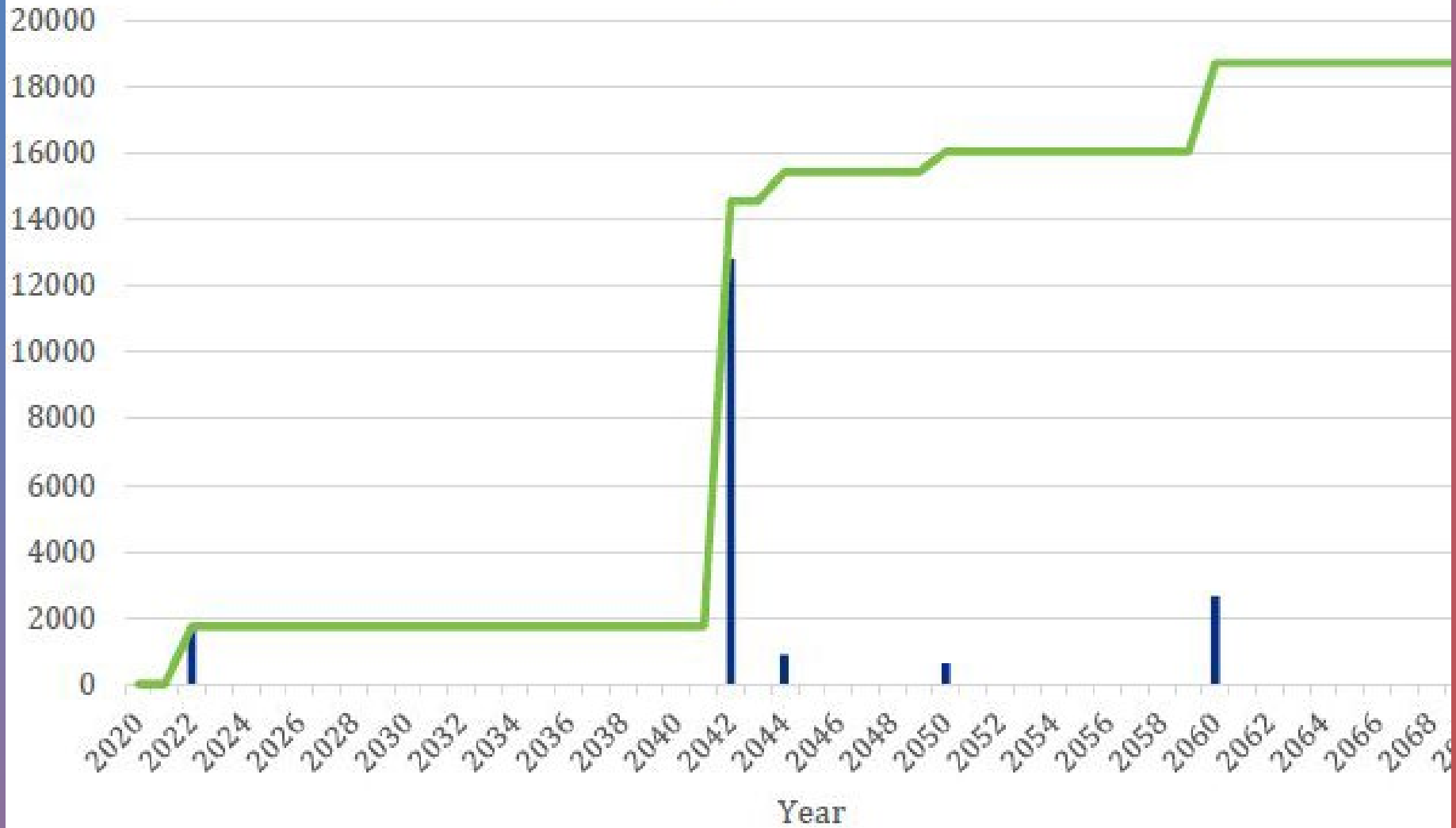
**Number of Operators:** 4, including a chief plant operator

**Special Features:** The plant's slanted tube intake assembly and installation required a dive team, inflatable ballasts, and tremendous coordination between land and water crews.

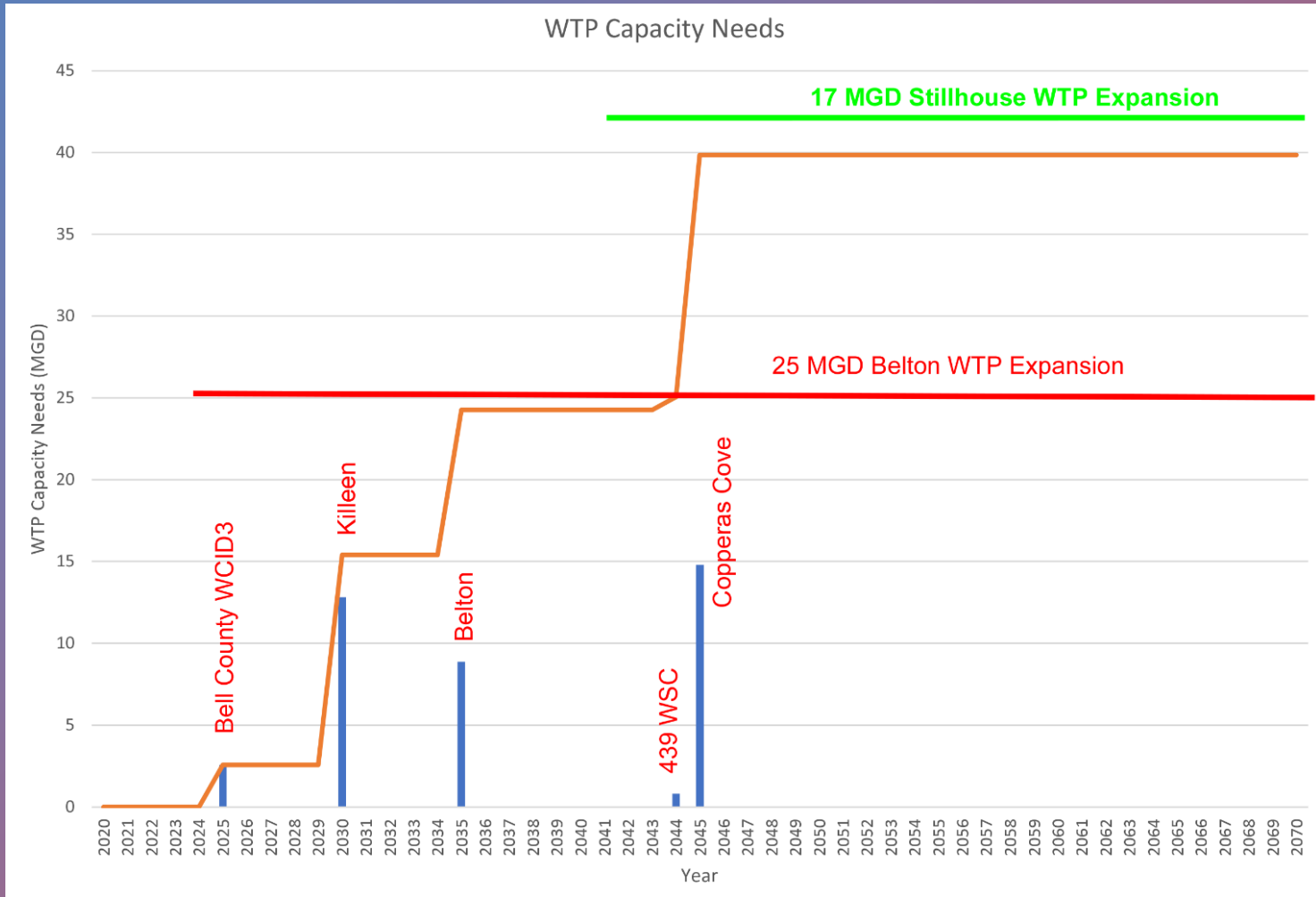
PHOTOGRAPH BY BELL COUNTY WATER CONTROL & IMPROVEMENT DISTRICT #1



# Water Supply Needs



# Summary: Water Treatment



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+ . Questions?

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[www.wcid1.org](http://www.wcid1.org)

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