

Drain: OF HENLEY **Drain #:** 102
Improvement/Arm: EXTENSION
Operator: J. LIVINGSTON **Date:** 1-8-04
Drain Classification: Urban/Rural **Year Installed:** 1981

GIS Drain Input Checklist

- Pull Source Documents for Scanning JL
- Digitize & Attribute Tile Drains JL
- Digitize & Attribute Storm Drains _____
- Digitize & Attribute SSD _____
- Digitize & Attribute Open Ditch _____
- Stamp Plans _____
- Sum drain lengths & Validate JL
- Enter Improvements into Posse JL
- Enter Drain Age into Posse _____
- Sum drain length for Watershed in Posse _____
- Check Database entries for errors JL

Gasb 34 Footages for Historical Cost Drain Length Log

Drain-Improvement: OF HULLY - EXTENSION

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
TILE	8"	1360'	1070'	-290'	2. ⁰⁰ / ₁₁	2720. ⁰⁰
	2x10"	3663'	2133'	-930'	3. ⁰⁰ / ₁₁	18378. ⁰⁰
	14"	3700'	1695'	-2005'		↓
						28024. ⁵⁵
OPEN DITCH RECON.	—	0				↑
* 14" CONC. TILE - 460'		0				

Sum: 8123' 4898' -3225'

\$49,122.⁵⁵

Final Report: 8100

Comments:
460' OF TILE REMAINS IN SADDLE CREEK SECTION 1. THE LENGTH
IS NOT COUNTED TOWARD THE DRAIN LENGTH BECAUSE THE TILE
IS COINCIDENT WITH PART OF THE SADDLE CREEK SECTION 1
RECONSTRUCTION.



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

773-6110 Ext. 19

Noblesville, Ind. 46060 September 25 1981

TO: Hamilton County Drainage Board

RE: O.F. Henley Drain Extension

Attached is a report prepared by John South of the District Soil Conservation Service, along with an assessment roll. This information relates to the petition to extend the O.F. Henley Drain which was submitted to the Board on May 4, 1981. This petition asks that an existing private tile be made a part of the O.F. Henley Legal Drain.

This tile begins approximately 1450' East and 1320' North of the South West corner of Section 16, Township 18 North, Range 3 East. The tile then runs South to a point approximately 1450 feet East of said corner, thence South and South East to a point approximately 100 feet West of the center of Section 21-18-3. Thence South East 200', thence East 1200', thence in a South East direction to the point of beginning of the O.F. Henley Open Ditch approximately 570 feet North of the South East corner of Section 21-18-3. (The Henley was extended to the road 540 feet when last reconstructed in 1979. The original length was 6160 feet. The present length is 7700 feet) The proposed extension would add approximately 8100 feet of legal drain. This would then set the length of the O.F. Henley Drain at 15,800 feet.

In order to accept this as a legal drain it must first be brought up to working order. The plan prepared by John will satisfy this requirement.

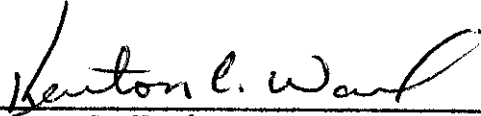
This plan has however, been revised by me from John's original. The

original cost was figured at \$41,260.00 which when divided into the 538.0ac watershed would put the assessment at \$76.69 per acre. By reducing the tilesize from 16" to 14" the cost would be reduced to \$67.24 per acre.

I believe the proposed reconstruction should be done using the 14" tile. This will cost \$67.24 per acre for the reconstruction. The landowners will continue to pay the existing amount assessed for maintenance.

The Board should also note that the existing culvert on Ditch Road North of 136th Street should be repalced. This should be done at the expense of the County Highway Department. The Highway Department has been notified of this.

I recommend that ahearing for the proposed extension and reconstruction be held on Decemeber 7, 1981.



Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

773-6112 Ext. 19

Noblesville, Ind. 46060 October 7, 1982

To: Hamilton County Drainage Board

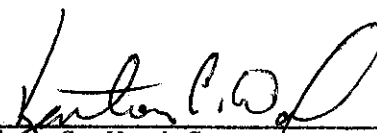
Re: O.F. Henly Drain

On October 7 I made the final inspection on the O.F. Henly Drain Reconstruction done by Gary Frame Excavating. At that time I found that the project is complete and acceptable.

On October 4 a claim for the 15% retainer and one fence repair was paid. The claim was for \$3749.51. The other four fence repairs were removed from the contract reducing the contract amount \$600.00.

The total contract price after removing the 4 fence repairs is \$24,146.75. The cost of extra work ordered done (See letter dated July 12, 1982) is \$3877.80. The total project cost will be \$28,024.55 which is below the estimated cost of \$36,168.00.

The contractor has submitted a statement indicating that all expenses incurred on the project has been paid.


Kenton C. Ward-Surveyor

KCW/jg

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

925 Division St.

P.O. Box 279

Noblesville IN 46060

July 10, 1981

Hamilton County Drainage Board
C/O Auditor's Office
Hamilton County Court House
Noblesville IN 46060

Re: O. F. Henley Legal Drain

Gentleman:

Background: The O.F. Henley Legal Drain is located in Clay Township near 141st Street and Ditch Road. The open ditch was reconstructed in 1979. The tile drain that did outlet at the head of the ditch was surveyed before reconstructing the drain. The channel was dug deep enough to be a good outlet for the tile. Afterwards the Drainage Board was petitioned to accept the tile as a legal drain.

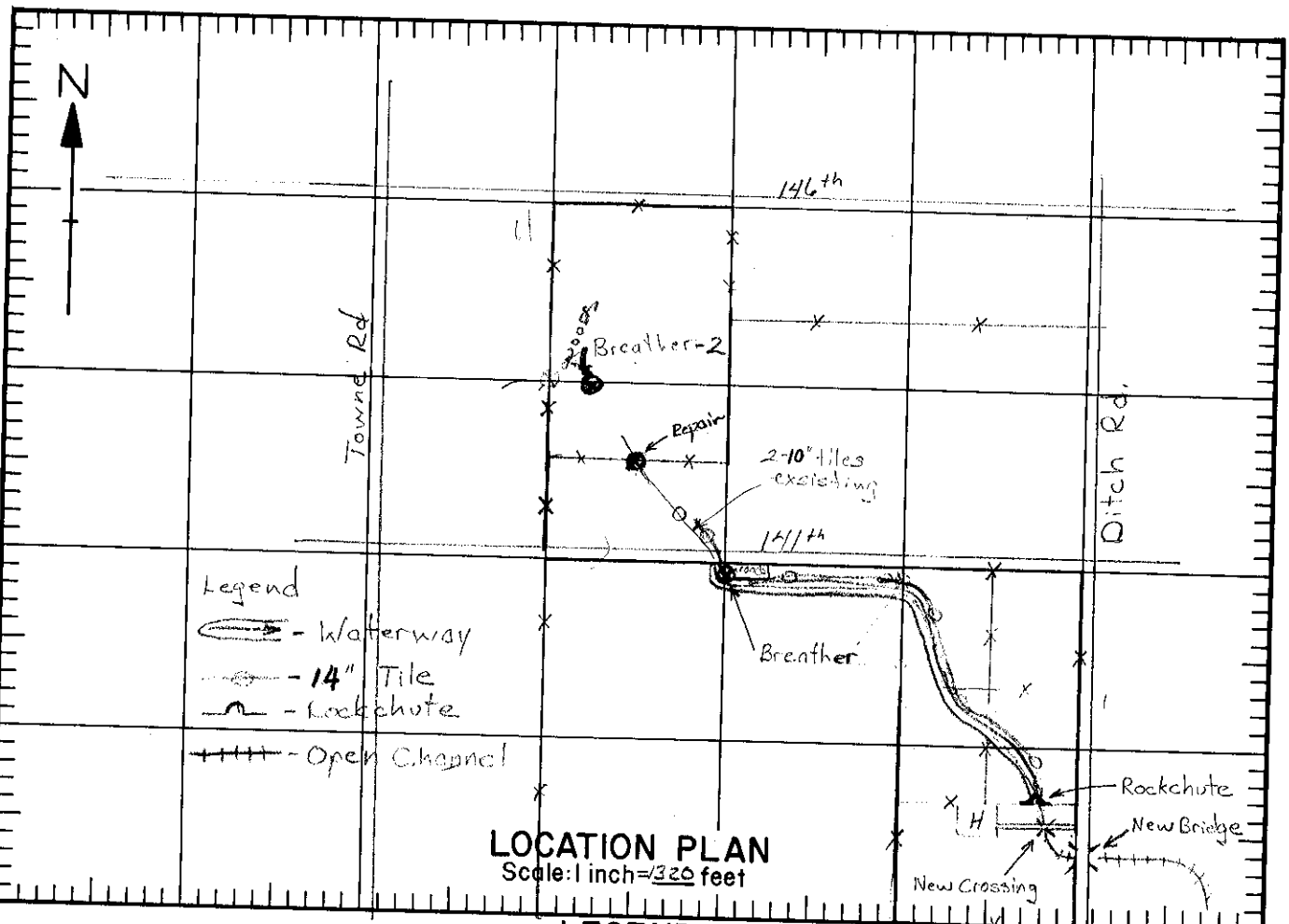
Problem: The tile drainage system has two problems both common to many tile systems. The tile has an extremely bad outlet and tree roots have plugged the tile. The outlet for the tiles is broken down 300' from the original outlet. It is believed two ten inch tiles outlet on the Schwegman farm. The water from the tiles must bubble up and out of the ground to escape. This back pressure has caused blow holes and reduced the effectiveness of the tile. The second problem, trees and brush growing over the tile, is primarily centered on the Foster farm. The roots have infiltrated the tile and reduced the flow of water. Over four hundred acres of farm ground receive poor drainage because of this.

Soils: Brookston silty clay loam, 0-2% slopes, dark colored, very poorly drained.

Solution: The bridge at Ditch Road needs replaced or lowered. For three hundred feet upstream from the bridge the open ditch needs deepened and improved. A new culvert will be installed at Schwegmans driveway. One hundred feet north of the driveway a rockchute is required to transport surface water from the waterway to the ditch bottom. A new tile will start at this point. A corrugated metal pipe with animal guard will protect the end of tile and keep rodents out. The new tile will extend to 141st Street where the present tiles cross the road. Breathers need

to be placed in the new tile system as well as several in the existing tile system north of 141st Street. A grass waterway is also needed along side the new tile. Without a waterway severe gully erosion is going to occur. Because the project involves pasture ground and wet unplanted crop ground its possible the work could be done in the summer time. Because of the waterway the project should be completed in the summer when heavy rains are not as likely to cause it damage.

Tom Schellenger
Deputy Com. Eng.



LEGEND

Road	-----	New Tile Installed	-----○-----
Farm Boundary	-----	Existing Deep Ditch	=====
Permanent Fence	x x x x	Proposed Deep Ditch	-----
Existing Tile Line	-----○-----	Existing Shallow Ditch	----->-----
Proposed Tile Line	-----○-----	Proposed Shallow Ditch	----->-----

DESIGN DETAILS

Line	Stations	Drain area acres	Dominant soil type	Tile size inches	Grade %	Drain coef.	Velocity	Capacity
							ft./sec.	Acres
Existing Tile								
Main	5+00-42+00		Brookston	2-10"	0.35	3/8"		160
Minimum Replacement								
Main	5+00-42+00		Brookston	14"	0.35	3/8"		190
Designers Recommendation								
Main	5+00-42+00		Brookston	16"	0.35	3/8"		280

Materials:

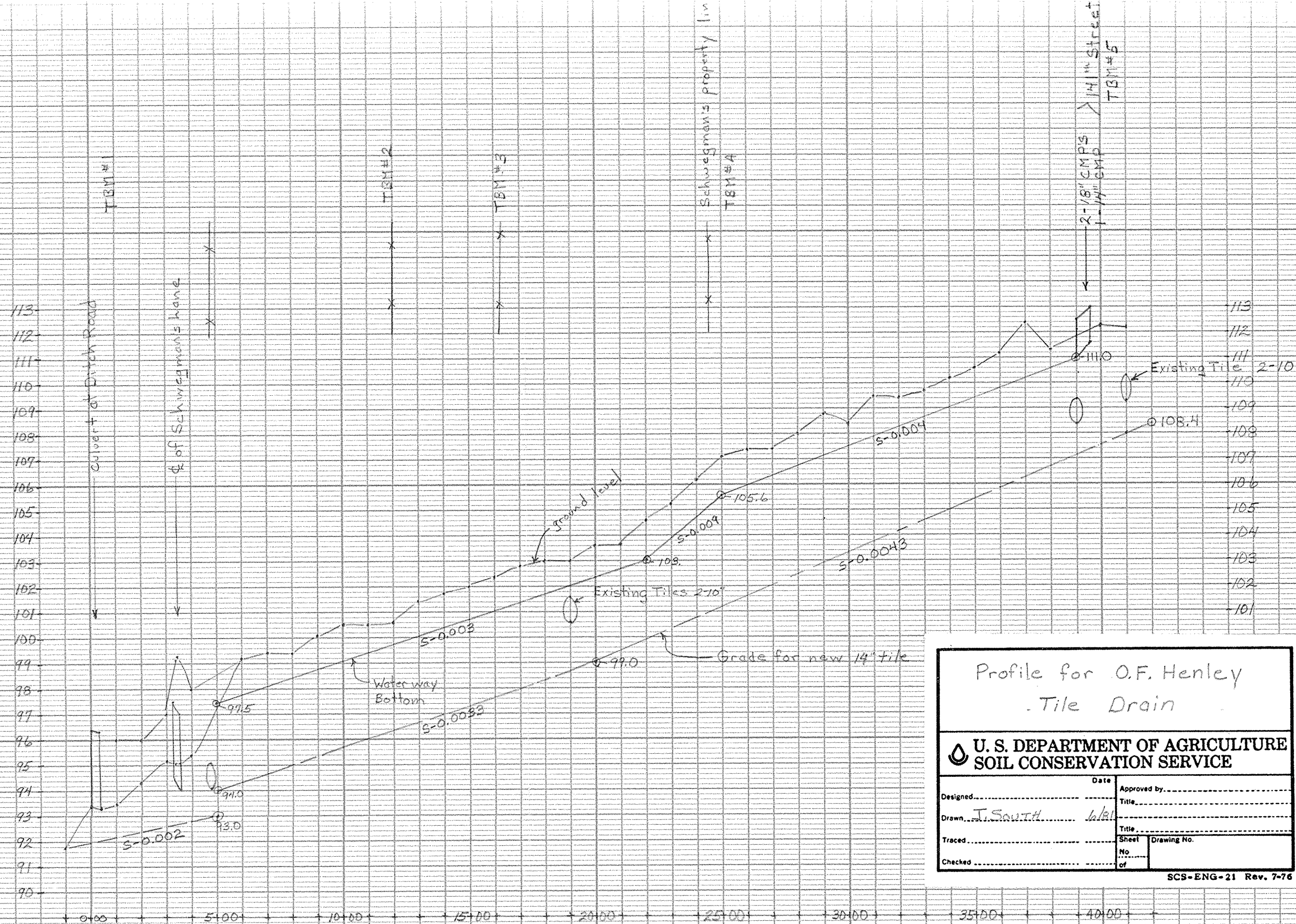
- 3400' of waterway
- 3700' of 14" Concrete Tile
- 650' of Open Channel Reconst.
- 20' of 16" CMP and Animal Guard
- 7- Breathers
- 1- Rockchute
- 50' of 72" CMP @ Road
- 32' of 60" CMP @ Lane

TILE DRAINAGE PLAN

NAME O.F. Henley

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

Designed <u>J. South</u>	Date <u>6/81</u>	Approved by <u>[Signature]</u>
Drawn		Title
Checked <u>P. Wall</u>	<u>7/81</u>	Title
Reviewed <u>J. [Signature]</u>	<u>7/81</u>	Sheet No <u>3</u>
		Drawing No. <u>IN-ENG-32</u>



Profile for O.F. Henley
Tile Drain

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

Designed.....	Date.....	Approved by.....
Drawn <u>J. South</u>	<u>4/21</u>	Title.....
Traced.....		Title.....
Checked.....		Sheet No. of.....
		Drawing No.

SCS-ENG-21 Rev. 7-76

ARM	DRAIN_TYPE	INST_DATE	DRAIN_LENGTH	DRAIN_DIA	MATERIAL	NUM_OF_ROWS	BEG_STA	END_STA
OF HENLEY EXTENSION	CLOSED	1981	460	14	TILE	1		
OF HENLEY EXTENSION	CLOSED	1981	584	14	TILE_CONCRETE	1	55+44	61+28

TOTAL FT.	1044
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X 4.25 LF

VALUE:	\$4,437.00
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* This is the only portion
of this improvement
that remains.

6-21-2018

Suzanne L. Mills