

SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

June 10, 1996

7/22/96  
9:30

To: Hamilton County Drainage Board

Re: Benton-Hinesley Drain

Attached is a petition and plans for the relocation of the Benton-Hinesley Drain filed by Phil Burton. This is for the relocation of the existing tile drain around Mr. Burton's residence. At present the tile runs under the residence and has collapsed.

STA 0 of the relocation shall be located at the point the existing tile enters the property at it's south line and will run east 62 feet, thence north 72 feet to a point (STA 1+34) where it intercepts the original drain once more. A junction box will be located at STA 0+00 and STA 1+34. The relocated tile shall be 134 feet of 15" smooth plastic pipe. This will replace 92' of the existing tile for a gain in length of 42 feet.

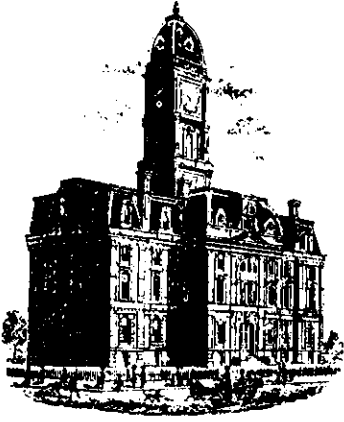
The cost estimate for this work is as follows:

2x3 box w/riser & 2x2 box w/riser	
w/2-solid lids	\$1150.00
100 feet 10" plastic tile	225.00
140 feet 15" plastic tile	588.00
15" E11 couple	58.00
#8 Stone	100.00
Seed & Fert.	100.00
Machine & Labor	2730.00
	4951.00
+ 15% Cont.	743.00
	\$5694.00

The cost for this work is to be paid by Mr. Burton, therefore the above cost should be assessed to tract 01-01-32-01-04-012.000 I recommend that due to the urgency of the work that the work be done by the Boards maintenance contractor rather than be set out for bid since the total cost is under \$25,000.00

The Board should set this hearing for July 1996.

Sincerely,



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*Kenton C. Ward, Surveyor*

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Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

TO: Kent Ward  
Hamilton County Surveyor

July 17, 1997

RE: Benton Hinsely Relocation Project ( Burton Property )


### FINAL INSPECTION REPORT

Please regard this letter as the final inspector's report on the Benton Hinsely Relocation Project , Located in Section 32 , Township 20 North , Range 3 East, in Adams Township of Hamilton County. On July 22, 1996 the Hamilton County Drainage Board approved the relocation of the drain around Mr. Burton's home. As of the date of this letter I do hereby attest to and agree that the designed plans have been built. All grade checks have been completed by James V. Wyant and Frank Mills of the Surveyors Office. All other inspections have been performed by myself. This relocation project was performed by the maintenance contractor, John Ward Excavating. Plans for this project were provided by John South of the NRCS. No change orders were needed.

Estimated cost of reconstruction-----	\$5,694.00	per Surveyor's report June 10,1996
Final cost -----	<u>\$4,911.76</u>	
	Difference=	782.24

The placement of Mr. Burton's home within the regulated drain easement is considered a violation, therefore the cost of this project was at Mr. Burton's expense. This payment was made to the Hamilton County Treasures Office by Mr. Burton on January 14,1997.

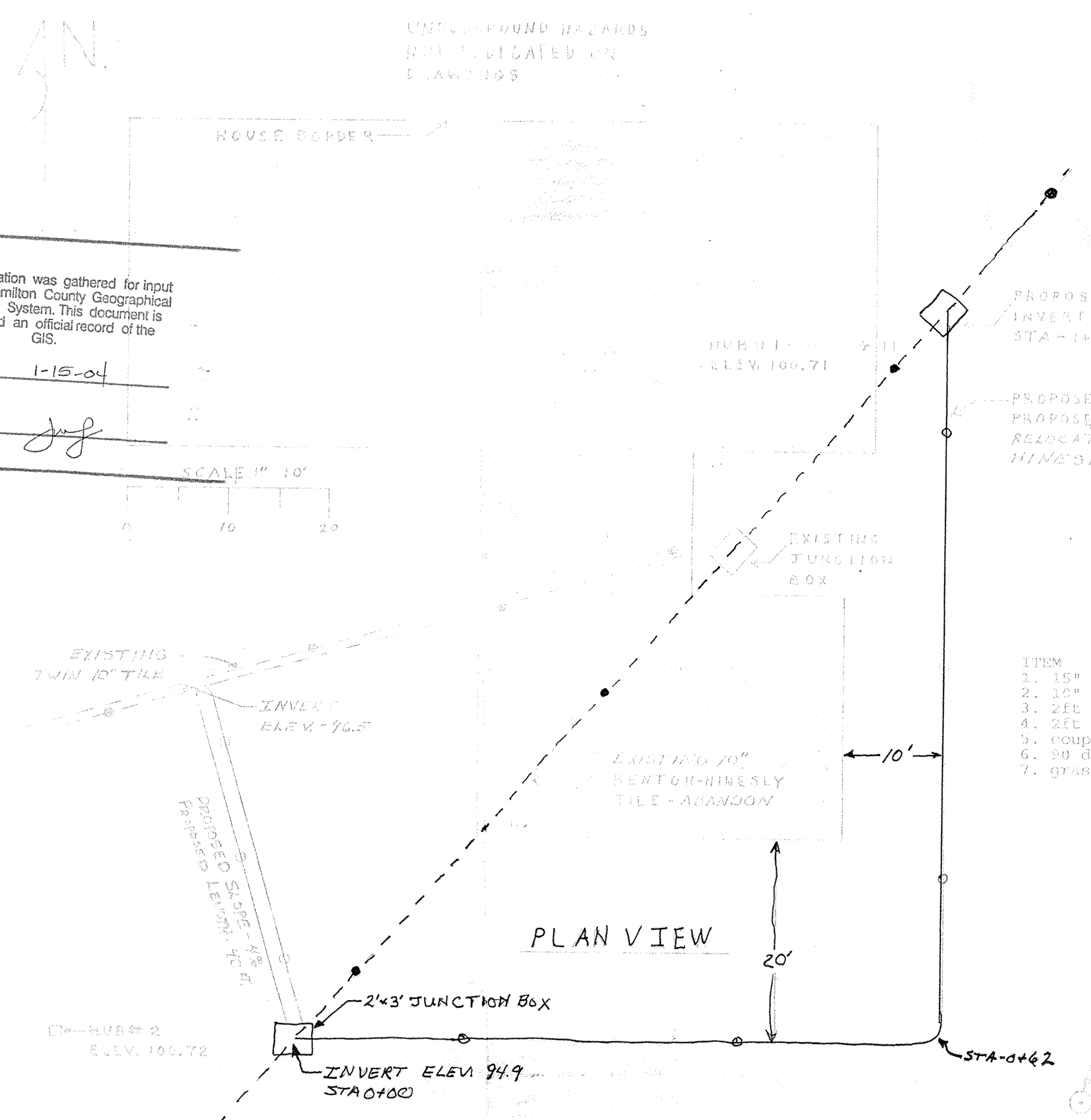
Sincerely,  
*Stephen A Baitz*  
Stephen A Baitz  
Drainage Specialist



This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 1-15-04

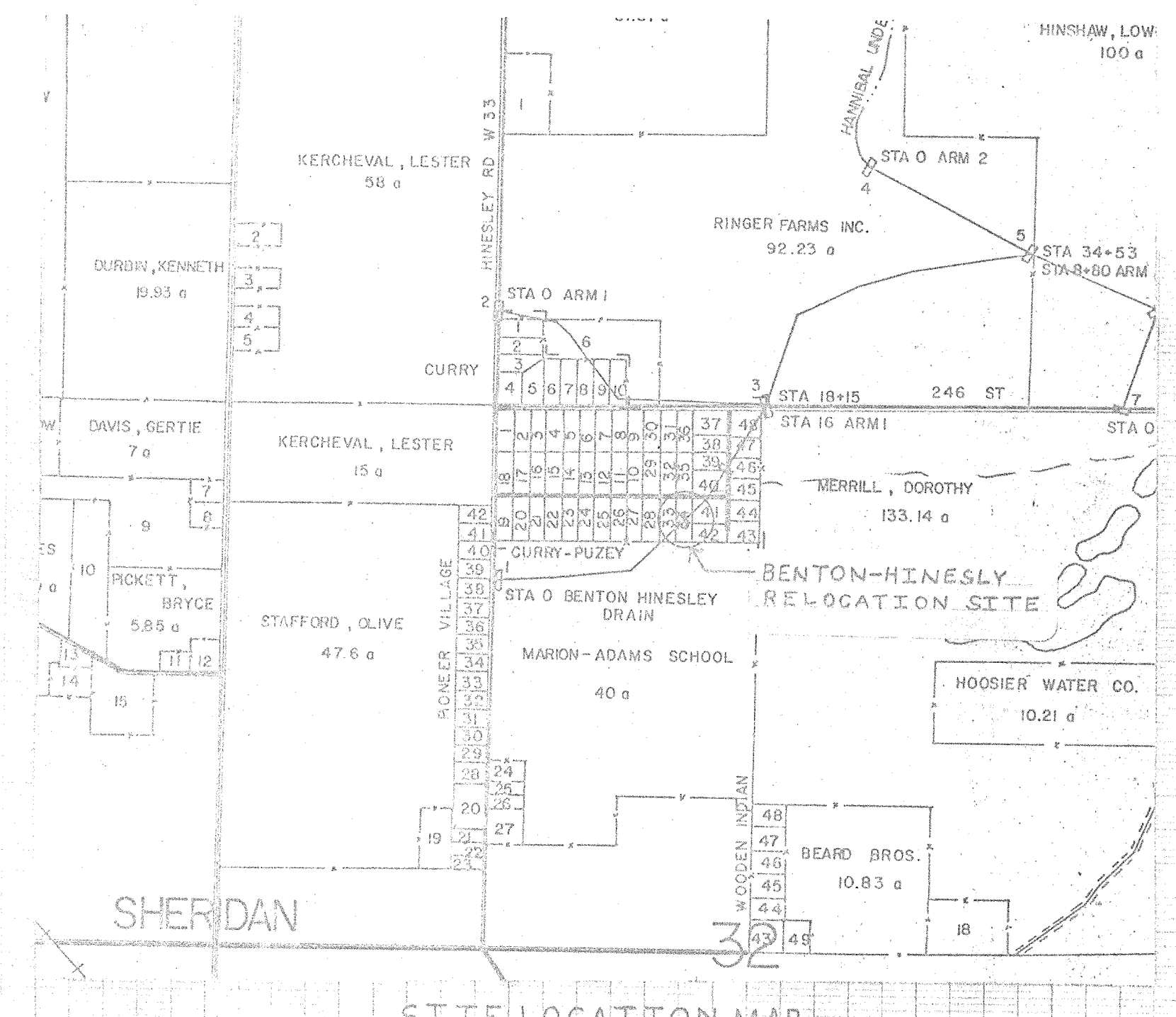
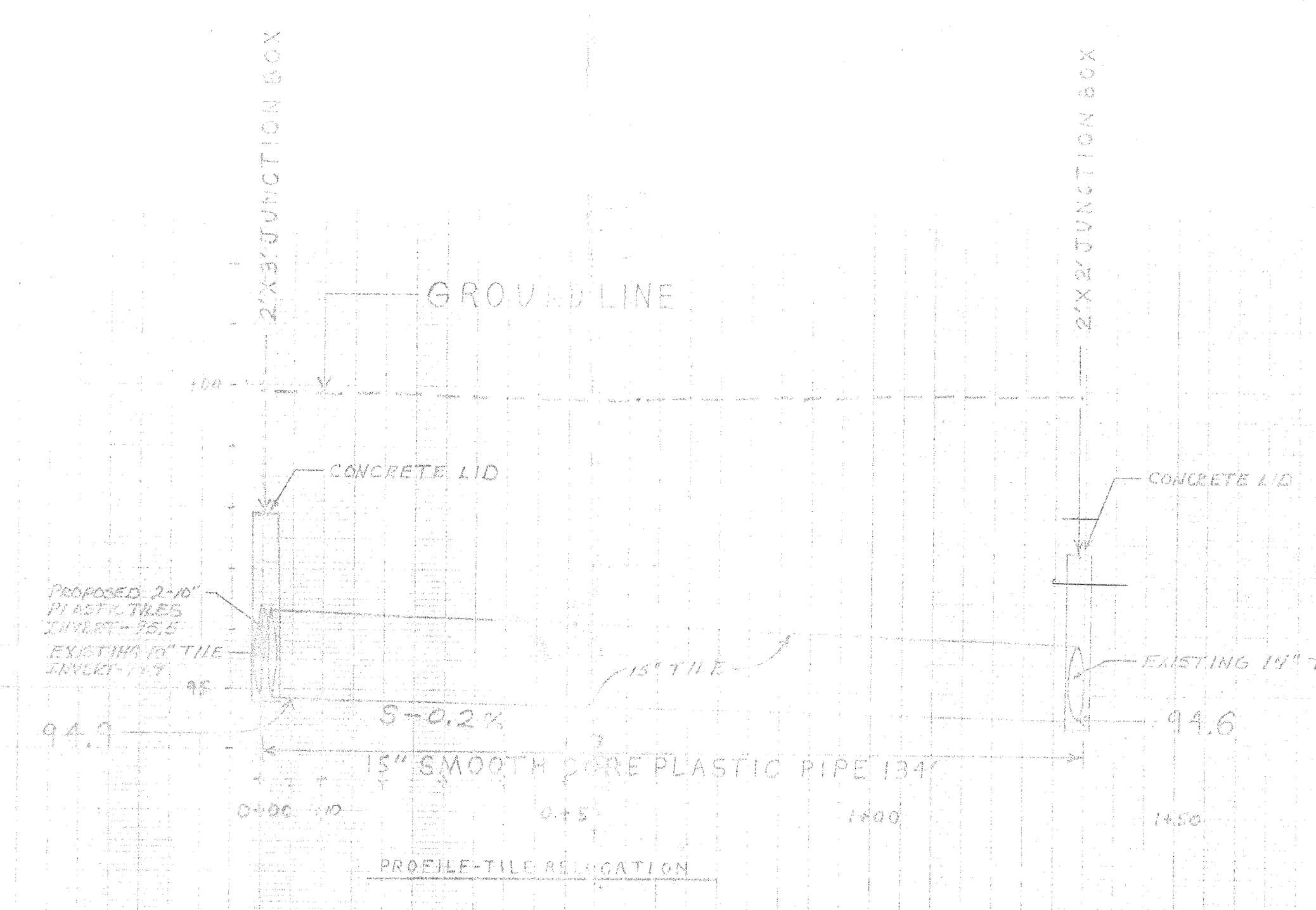
Entered by: *J.S.*



**MATERIAL SCHEDULE**

ITEM	QUANTITY
1. 15" smooth core plastic tile (legal drain)	134ft
2. 10" plastic tile (private drain)	80ft
3. 2ft by 2ft junction box	1
4. 2ft by 18" junction box	1
5. coupling	as needed
6. 90 degree ell with 2 miters	1
7. grass seeding	1/10 acre

BENCH MARK-NAIL NORTH WEST SIDE OF UTILITY POLE AT SOUTH EAST CORNER OF LOT ELEV. 100.0



**TILE INSTALLATION AND MAINTENANCE SPECIFICATIONS**

Trenching. Trench widths must be adequate for proper installation of the conduit; must allow proper joining of sections; and must allow proper placement of filter, envelope, or blinding materials.

The trench width will allow a minimum of 3 to 6 inches on both sides of the tile. The trench bottom shall be constructed to proper grade and shape before placement of the tile.

Where rock is encountered the trench will be over excavated a minimum of 6 inches and refilled to grade with a suitable bedding material.

Provisions for safety during trenching operations shall be in compliance with the applicable safety and health regulations for construction.

Bedding. If unstable soil conditions are encountered, the trench bottom must be stabilized before placement of the tile. Where necessary, the unstable material will be removed and replaced with sand-gravel or a similar material. Where an envelope is not specified, the bottom of the trench shall be shaped to ensure good alignment of the tile.

Filters and envelopes. If a sand-gravel filter is specified, it shall be clean, hard, durable material and of the gradation specified.

Placement. All conduits shall be laid to line and grade and covered with the specified blinding, envelope, or filter material to a depth of not less than 3 inches around the tile. Blinding material shall contain no hard objects larger than 1.5 inches in diameter. Unless otherwise specified, topsoil will be used to blind the tile.

Joint between drain tile shall not exceed 1/8 inch except in sandy soils, where the closest possible fit must be obtained, and in organic soils where some of the fibrous types make it desirable to slightly increase the space between tile.

**Construction tolerances.** The following guidelines for subsurface drain construction:  
Flowline or grade +/- 0.1 foot  
There will be no reverse grades.

**Backfill.** Backfill will be placed in such a manner as to avoid displacement of the conduit. Backfill should be moved into the trench at an angle so that material flows down the front slope of previously placed material. Backfill shall not contain frozen material, stones, clods, or other objects large enough to damage the tile. The trench should be backfilled as soon as possible after blinding.

**Finish.** Work areas shall be restored to their former condition as much as possible. Vegetation or other protective cover shall be established promptly.

**Maintenance.** A maintenance program shall be established by the landowner/user to maintain the functional capacity of the drain tile. Items to consider are:  
1. Keep inlets, trash guards, collection boxes and structures clean and free of materials that can reduce the flow.  
2. Repair all broken or crushed lines to insure proper functioning of the drain.  
3. Periodically inspect outlet conduit and animal guards for proper functioning.

**SEEDING SPECIFICATIONS**

1. Disturbed areas to be vegetated will be seeded and fertilized upon final grading. Apply fertilizer and work into the soil to a depth of 2 or 3 inches and work the seed into the soil 1/4 to 1/2 inch. Straw mulch will be used at a rate of 1.5 tons/acre. Backfill the trench using existing top soil for surface.

**MATERIALS AND QUANTITIES:**  
Grass mixture 220lbs/acre  
Grass mixture will consist of  
60% rye  
30% Kentucky blue grass  
10% red fescue  
12-12-12 fertilizer at 500lbs/acre

**NOTICE TO COOPERATOR AND CONTRACTOR**

NO REPRESENTATION IS MADE AS TO THE EXISTENCE OF OR NONEXISTENCE OF UNDERGROUND HAZARDS. AT LEAST 2 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE OWNERS OF PIPELINES OR OTHER UTILITIES MUST BE NOTIFIED OF THE PENDING CONSTRUCTION.

UTILITIES THAT PARTICIPATE WITH THE INDIANA UNDERGROUND PLANT PROTECTION SERVICES, INC., CAN BE NOTIFIED BY CALLING 1-800-382-5544, TOLL FREE

**BENTON HINESLY RELOCATION**

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Designed: *JOHN B. SOUTH*  
Drawn: *ANDY CASH*  
Traced: \_\_\_\_\_  
Checked: \_\_\_\_\_

Date: \_\_\_\_\_  
Approved by: *J.P. Smith P.E.*  
Title: \_\_\_\_\_  
Sheet: \_\_\_\_\_  
Drawing No. \_\_\_\_\_