

Drain: THISTLEWAITE **Drain #:** 296
Improvement/Arm: EAST LEG RECONSTRUCTION
Operator: J. LIVINGSTON **Date:** 7-8-04
Drain Classification: Urban/Rural **Year Installed:** 2000

GIS Drain Input Checklist

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

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**Gasb 34 Footages for Historical Cost
Drain Length Log**

Drain-Improvement: THISTLEWATE - EAST LEG RECONSTRUCTION

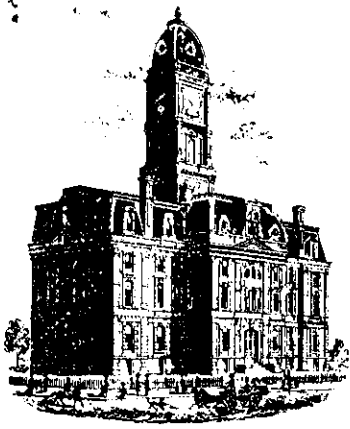
Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
PVC	12"	58'	32'	-26'		
RCP	15"	1406'	1426.45'	+20.45'		
	18"	1322'	1321.70'	-0.30'		
	21"	1252'	1251.30'	-0.70'		
	24"	955'	955.4'	+0.40'		
	30"	303'	303'			
	36"	354'	354'			
	48"	1009'	1008.2'	-0.80'		
	54"	666'	665.9'	-0.10'		
	60"	631'	630.9'	-0.10'		
	72"	1006'	1004.7'	-1.3'		

Sum: 8962' 8953.55' -8.45' \$1,099,118.24

Final Report: 8962'

Comments:

26 OF THE 58' OF PIPE LISTED AS 12" PVC IN FINAL REPORT IS ACTUALLY
15" RCP ACCORDING TO ASBUILTS. LENGTH DISCREPANCY DUE TO
ROUNDING OF LENGTHS IN SURVEYOR'S FINAL REPORT. LENGTHS IN GIS
REPRESENT ASBUILT LENGTHS.
TRUE



SURVEYOR'S OFFICE

Hamilton County

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Suite 188

One Hamilton County Square

Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

December 21, 2000

Re: Thistlewaite Drain Reconstruction

Attached are plans, specifications and calculations for the reconstruction of a portion of the Thistlewaite Drain. This reconstruction was petitioned for by the Sheridan Town Council on April 26, 1999. (See minutes book 5, page 127)

The portion of the drain to be reconstructed is that section known as Arm 2 and a portion of Arm 2 of Arm 2 (also known as the East Leg). The reconstruction will begin at Sta. 27 of Arm 2, which is on the south side of State Road 47. The work will proceed north to Sta. 6+20 of Arm 2. The portion of the drain which was reconstructed in 1998 for the West Forth Street Addition (see my report dated May 8, 1998) will not be reconstructed. The work will begin at the manhole on the north side of the subdivision at Sta. 4+70 and run to Sta. 0 of Arm 2, which is at Second Street or 241st Street.

The work on Arm 2 of Arm 2 shall begin at approximately Sta. 6+00 which is on the north line of Block A of the West Forth Street Addition. The new drain will run east within Block A 160 feet to a new manhole and thence run north 130 feet to an existing inlet located in Third Street which is approximately Sta. 2+80 of the original drain.

Along with this work additional arms are to be constructed in order to better serve various sections of Sheridan. These Arms are as follows:

1. Fifth Street Arm shall begin at the new Arm 2 and run east 780 feet to W. Elm Street where it will intersect with an existing tile from the northeast.
2. Sixth Street Arm will run from the new Arm 2 east 650 feet to Hamilton Avenue.
3. Seventh Street Arm will begin at the new Arm 2 and run east 1,980 feet to Main Street.
4. Hamilton Avenue Arm will begin at the Seventh Street Arm and run south 334 feet to Eighth Street.
5. Sheridan Avenue Arm will begin at the Seventh Street arm and run north 352 feet to Sixth Street and also run south of the Seventh Street Arm and run 672 feet to Ninth Street.
6. California Street Arm will begin at the Seventh Street Arm and run north 356 feet to Sixth Street. Also a south arm shall begin at the Seventh Street Arm and run south 668 feet south to Ninth Street.

7. Ohio Street Arm will begin at the Seventh Street Arm and run north 350 feet to Sixth Street. Also a south arm shall begin at the Seventh Street Arm and run south 668 feet to Ninth Street.

Each intersection which the above arms run through or to will have curb inlets installed at each corner of the intersection. Also, the Fifth, Sixth and Seventh Street Arms will have curb inlets on both sides of the street in the runs between Arm 2 and Hamilton Avenue.

The proposed project will replace 2,550 feet of the existing Arm 2 and 320 feet of the existing Arm 2 of Arm 2. The new drain shall consist of 12,175 feet of reinforced concrete pipe. The proposed reconstruction will add 9,305 feet of new regulated drain.

This reconstruction will not affect the Main Ditch nor Arm 1 north of State Road 47 (also known as the west leg). Currently both drains are not adequate to handle additional flow of water resulting from additional development in the drainage shed for these portions of the drain. Therefore, per IC 36-9-27-17(d) no further development shall take place in the drainage shed for the west leg until the drain is reconstructed.

Due to the size of storm sewer being proposed for this section certain restrictions must be placed on the undeveloped tracts within the drainage shed for both Arm 2 and Arm 2 of Arm 2. The tracts between the west leg and east leg, when developed in the future shall drain to the east leg at a predevelopment 2 year release rate. Tracts 02-01-32-00-00-002.000 owned by James and John Stafford and 02-01-32-00-00-002.001 owned by the Town of Sheridan when developed in the future should either change drainage sheds and go to the Benton Hinesley Drain or have a downstream analysis done on the available storm sewer capacity and have the allowable cfs per acre determined from that analysis.

The drainage area for Arm 2 north of Second Street (241st Street) shall be limited to an allowable cfs per acre of 0.01 for future development.

The cost for this work is as follows:

DESCRIPTION	QUANTITY Street Dept	QUANTITY INDOT	QUANTITY Thistle waite	UNIT	UNIT COST	TOTAL COST
Clearing Easement			2	Acres	\$2,500.00	\$5,000.00
Bituminous Pavement (6")	1500		470	Tons	\$90.00	\$177,300.00
Bituminous Surface No#11		29		Tons	\$30.00	\$870.00
HMA for approaches		17		Tons	\$35.00	\$595.00
Bituminous Base SD		190		Tons	\$22.00	\$4,180.00
"B" Borrow for Structural Backfill	1242	555	4667	Cu Yds	\$24.00	\$155,136.00
Granular Backfill	2660		0	Cu Yds	\$24.00	\$63,840.00
Driveway Repair			40	Each	\$500.00	\$20,000.00
Mulch Seeding			25000	Sq. Yds	\$0.34	\$8,500.00
RipRap Outlet		1		Lump Sum	\$7,500.00	\$7,500.00
Pipe: Reinforced Concrete Pipe 72"		80	1000	Lineal Ft.	\$172.04	\$185,803.20

Pipe: Reinforced Concrete Pipe 60"			625	Lineal Ft.	\$117.00	\$73,125.00
Pipe: Reinforced Concrete Pipe 54"	20		680	Lineal Ft.	\$96.12	\$67,284.00
Pipe: Reinforced Concrete Pipe 48"	60		990	Lineal Ft.	\$73.70	\$77,385.00
Pipe: Reinforced Concrete Pipe 36"	20		360	Lineal Ft.	\$47.78	\$18,156.40
Pipe: Reinforced Concrete Pipe 30"	20		340	Lineal Ft.	\$34.40	\$12,384.00
Pipe: Reinforced Concrete Pipe 24"	55		2275	Lineal Ft.	\$22.00	\$51,260.00
Pipe: Reinforced Concrete Pipe 21"	100		1340	Lineal Ft.	\$19.80	\$28,512.00
Pipe: Reinforced Concrete Pipe 18"	80		1000	Lineal Ft.	\$14.30	\$15,444.00
Pipe: Reinforced Concrete Pipe 15"	3080	50	0	Lineal Ft.	\$11.20	\$35,056.00
Pipe: CMP Type III 15"		40	0	Lineal Ft.	\$21.00	\$840.00
Pipe: CMP 15" Type III End Sec.		2	0	Each	\$215.00	\$430.00
Manhole Type A			17	Each	\$1,670.00	\$28,390.00
Manhole Type D			2	Each	\$4,000.00	\$8,000.00
Manhole Type E			7	Each	\$6,000.00	\$42,000.00
Manhole Type F		1	3	Each	\$7,500.00	\$30,000.00
Catch Basin Type A			24	Each	\$1,200.00	\$28,800.00
Catch Basin Type E		2		Each	\$1,600.00	\$3,200.00
Inlets			35	Each	\$1,200.00	\$42,000.00
Maintaining Traffic		1		Lump Sum	\$6,800.00	\$6,800.00
Road Closure Sign Assembly		4			\$200.00	\$800.00
Barricade, III A		4			\$224.00	\$896.00
Barricade, III B		4			\$175.00	\$700.00
DESCRIPTION	QUANTITY Street Dept	QUANTITY INDOT	QUANTITY Thistle waite	UNIT	UNIT COST	TOTAL COST
Detour Route Marker Assembly		29			\$50.00	\$1,450.00
Construction Sign, A		11			\$100.00	\$1,100.00
Construction Sign, B		4			\$200.00	\$800.00
Concrete Anchor		1		Each	\$1,000.00	\$1,000.00
Type "O" Compacted Aggregate		74		Tons	\$30.00	\$2,220.00
Scarifying		84		Sq. Yds	\$3.00	\$252.00
Structure Removal		1		Lump Sum	\$15,000.00	\$15,000.00
Sub Total						\$1,222,008.60
15 %Contingencies						\$183,301.29
First year interest						\$31,678.59
Total Estimate	12-20-00					\$1,436,988.48

The Town Council of Sheridan has committed to funding the proposed reconstruction. This funding can be done in two methods. The preferred method is for the Town Council to bond the portion outside of the State Road 47 work area. This total will be \$1,308,967.20. The alternate method is for the Town to bond the portion of the project outside of the street crossings within the Town itself. The street crossings within the Town would be paid through the General Drain Improvement Fund (GDIF) and then be assessed for reconstruction and be paid over a 5 year period. Due to a shortfall in the GDIF, the County will fund the project with a bank loan under IC 36-9-27-97.5. The totals for this method would be \$992,181.36 for the bond and \$348,464.49 for the loan through GDIF for a total of \$1,340,645.85.

The improvements within the right-of-way for State Road 47 will be paid for by the State of Indiana through the Indiana Department of Transportation per IC 36-9-27-71. The estimated cost for this work is \$96,342.63.

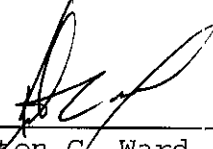
Upon review of the maintenance for the drain I believe that due to the additional system installation that maintenance needs will increase. This increase consists of additional pipe lengths to maintain by jetting; catch basins and manholes to maintain by vacuuming; additional inlets to maintain by keeping clean; and, initial problems from construction to maintain or repair such as settling, erosion at the open ditch and other construction related items which may occur.

Due to the need for increase maintenance I believe that the maintenance for roads and streets should be increased from \$2.00 per acre to \$10.00 per acre. I also recommend that the minimum assessment for maintenance for the drainage area north of State Road 47 and that portion of the Town of Sheridan south of State Road 47 be increased from \$15.00 to \$25.00 per tract. I further recommend that if in the future any existing undeveloped tract within the Thistlewaite Drainage Shed is developed as commercial or multifamily residential, that the assessment for that tract be set at \$10.00 per acre with a \$50.00 minimum.

The project will lie within existing easement or right-of-way except in places where the drain is being rerouted to avoid existing structures. In those cases the existing tile and easement will be vacated in order not to encumber the property with redundant easements. Therefore, I believe that no damages will result to landowners by the construction of this project.

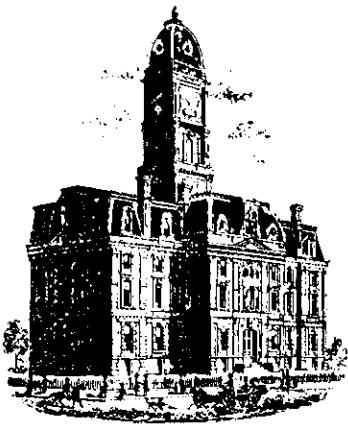
I believe that this proposed drain north of State Road 47 and that portion of the existing drain south of State Road 47 that is within the Town limits of Sheridan meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this portion of drain shall be designated as an Urban Drain.

I recommend the Board set a hearing for this proposed reconstruction for January 22, 2001.



Kenton C. Ward
Hamilton County Surveyor

KCW/kkw



SURVEYOR'S OFFICE

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December 9, 2002

To: Hamilton County Drainage Board

RE: East Leg of the Thistlewaite Regulated Drain Reconstruction

FINAL INSPECTION REPORT

This is the Final Report on the East Leg of the Thistlewaite Regulated Drain Reconstruction, located in Section 31, Township 20 North, Range 3 East in Adams Township in Hamilton County. As of the date above I do hereby attest to and agree that the Drain has been installed per the contract for the construction awarded on April 9, 2001 to Grade-X Construction.

All asbuilts, and a certification of completion and compliance dated September 5, 2002 have been completed by Butler, Fairman & Siefert and this Office. A notarized statement that all expenses incurred for labor and materials paid has been received from Grade-X Construction per IC 36-9-27-82(b). All contractors' claims have been paid. The escrow retainage being held by Bank One Trust Company per agreement dated May 17, 2002 should now be released (See Drainage Board Minutes dated June 8, 2002, Book 6, page 65).

The Town of Sheridan petitioned for this reconstruction on April 26, 1999. (Minute Book 5, Page 127). The reconstruction was approved at hearing on January 22, 2001 (Minute Book 5, Page 547 – 550). The Engineers Estimate for the Thistlewaite Regulated Drain Project per my report dated December 21, 2001 is as follows:

Engineers Estimate:

Engineers Estimate -----	\$1,222,008.60
15% Contingencies -----	\$183,301.29
First Year Interest -----	<u>\$31,678.59</u>
Total Estimate -----	\$1,436,988.48

The common construction wage rates were set by the Wage Committee on December 14, 2000. These rates are on file with the bid documents.

The bid documents for the Thistlewaite Regulated Drain Project was set out in 3 segments. These were the Base Bid, Alternative #1 and Alternative #2. The Base Bid included improvements to the main trunk line from 2nd Street to the north side of the 4th Street addition and from the south side of the 4th Street Addition to the south side of SR 47. Alternative #1 included tributary storm sewers along 5th & 6th Street. Alternative #2 included tributary storm sewers along 7th Street with laterals along Hamilton, Sheridan, California and Ohio Street. Bids were opened at the March 12, 2001 (Minute Book 5, Page 589) meeting of the Board accepted March 26, 2001 (Minute Book 6, Page 1) and contract with Grade-X approved at the Board's April 9, 2001 meeting. (Minute Book 6, Page 18)

The Grade-X Bid was as follows:

Base Bid -----	\$745,719.00
Alternative #1 -----	\$126,060.00
Alternative #2 -----	\$331,196.00
Grade-X Bid Total -----	\$1,184,975.00

Due to budget constraints, **Alternative #1 for this project was not built.** Therefore, Grade-X's Bid Total for Base Bid and Alternative Two that was constructed with this project was \$1,058,915.00.

Below is a list of change orders paid to Grade-X for construction of the Thistlewaite Regulated Drain Project.

Grade-X Change Orders:

June 5, 2001	#1 (Base Bid)	\$ 3,440.00
August 22, 2001	#2 (Base Bid)	\$ 22,693.14
September 19, 2001	#3 (Base Bid)	\$ 10,017.90
September 20, 2001	#1 (Alternative Two)	\$ 10,031.20
November 19, 2001	#4 (Base Bid)	\$ 2,906.93
December 3, 2001	#2 (Alternative Two)	\$(15,552.69)
June 14, 2002	#5 (Base Bid)	\$ 3,499.00
June 14, 2002	#3 (Alternative Two)	\$ 3,168.06
Change Order Total		\$ 40,203.54

The above change orders were approved by the Board on the following dates respectively:

June 25, 2001	Drainage Board Minute Book 6, Page 82
August 27, 2001	Drainage Board Minute Book 6, Page 112
September 24, 2001	Drainage Board Minute Book 6, Page 157
September 24, 2001	Drainage Board Minute Book 6, Page 157
December 10, 2001	Drainage Board Minute Book 6, Page 226
December 10, 2001	Drainage Board Minute Book 6, Page 226

June 24, 2002
June 24, 2002

Drainage Board Minute Book 6, Page 377
Drainage Board Minute Book 6, Page 377

Below is a list of claims paid to Grade-X for construction of the Thistlewaite Regulated Drain Project:

Grade-X Claims:

Claim #	Grade-X Payment	Retainage	Total
1	\$36,949.50	\$6,520.50	\$43,470.00
2	\$260,427.23	\$45,957.75	\$306,384.98
3	\$233,508.28	\$41,207.34	\$274,715.62
4	\$130,016.28	\$22,944.05	\$152,960.33
5	\$80,625.75	\$14,228.07	\$94,853.82
6	\$101,475.95	\$17,907.52	\$119,383.47
7	\$66,764.62	\$11,781.99	\$78,546.61
8	\$6,475.35	\$1,142.71	\$7,618.06
9	\$15,203.65	\$2,683.00	\$17,886.65
10	\$2,804.15	\$494.85	\$3,299.00
Totals	\$934,250.76	\$164,867.78	\$1,099,118.54

Amount Paid to Grade-X to date ----- **\$1,099,118.54**

This total construction cost reflects the Base Bid, Alternative #2 and the above listed change orders.

Inspection agreements were executed between this Office and Butler, Fairman and Siefert on April 23, 2001 for \$58,113.60 (Minute Book 6, Page 34) and an additional \$19,371.33 on March 25, 2002 (Minute Book 6, Page 311) for construction Inspection Services for this reconstruction. These contracts were based on a rate per hour with a not to exceed amount of \$77,484.93.

Butler, Fairman & Siefert, Inc. Agreements:

BFS Agreement # 1 ----- \$58,113.60
BFS Agreement # 2 ----- \$19,371.33
Agreement Total ----- **\$77,484.93**

The Inspection Services were paid partially from the Thistlewaite Regulated Drain Maintenance Fund as allowed per IC 36-9-27-45.5.

Also used were unexpended funds from the 1996 reconstruction. This amounted to \$17,139.30 at the beginning of this contract. During the course of the contract another \$11,519.59 of outstanding reconstruction assessments were paid by landowners. At this time this amounts to \$28,658.89, which can be utilized for the cost of the inspection services. Therefore, \$48,826.04 should be transferred from the maintenance fund to

General Drain Improvement Fund (GDIF) to cover the remainder of the construction inspection costs.

Below is a list of Claims paid for these services:

BFS Claims to date:

Claim #1	\$ 1,194.56
Claim #2	\$ 2,162.10
Claim #3	\$13,088.14
Claim #4	\$12,509.41
Claim #5	\$12,037.66
Claim #6	\$ 9,575.39
Claim #7	\$ 7,523.14
Claim #8	\$13,831.28
Claim #9	\$ 788.68
Claim #10	\$ 282.08
Claim #11	\$ 360.08
Claim #12	\$ 52.00
Claim #13	\$ 182.00

Total inspection services Claims Paid to BFS (from GDIF) \$73,586.52

The total project costs are as follows:

Grade-X

Base Bid and Alternate Two	\$1,058,915.00
Change Orders	\$ 40,203.54
Subtotal	\$1,099,118.54
Butler, Fairman & Seufert Inspection Services	\$ 77,484.93
Total	\$1,176,603.47

During construction, changes were made to the proposed drain lengths, which will alter the construction plans submitted with my report for this drain dated December 21, 2000. The Report was approved by the Board at the hearing held on January 22, 2001. See Drainage Board Minutes Book 5, Pages 547-549. The changes are as follows:

Thistlewaite Asbuilt

Structure #	Asbuilt T.C.	Design T.C.	Asbuilt Inv.	Design Inv.	Size	Type	Direction	Asbuilt Length	Design Length	Length Diff.
9A	942.52 (W)	940.00	937.32	937.50	18"	RCP	East	50	50	0
9A	943.12 (E)	N/A	N/A	N/A	N/A	N/A	N/A			
9A	942.52 (W)	N/A	937.32	N/A	6"	PVC	South			
10	940.27	942.00	934.12	934.05	72"	RCP	North			
10	940.27	942.00	934.12	934.05	72"	RCP	South	87	80	7
10	940.27	942.00	937.02	936.90	18"	RCP	West			
11	942.66	942.25	934.65	934.24	72"	RCP	North			
11	942.66	942.25	934.65	934.24	72"	RCP	South	181	190	-9
11	942.66	942.25	935.55	N/A	24"	Poly	East			
12	942.47	942.70	934.40	934.62	72"	RCP	North			
12	942.47	942.70	934.40	934.62	72"	RCP	South	365	380	-15
13	942.72	943.05	934.77	935.00	72"	RCP	South	373	380	-7
13	942.72	943.05	934.77	935.00	60"	RCP	East			
13	942.72	943.05	934.90	935.09	54"	RCP	North			
13	942.72	N/A	939.35	N/A	15"	RCP	West			
13A	941.80	N/A	935.15	N/A	54"	RCP	N/A			
14	943.90	943.30	935.33	935.43	54"	RCP	South	336	340	-4
14	943.90	943.30	935.96	935.93	48"	RCP	North			
14	943.90	943.30	N/A	936.60	24"	RCP	East			
15	943.04	943.20	936.08	936.25	48"	RCP	South	304	317	-13
15	943.04	943.20	937.26	937.25	36"	RCP	North			
15	943.04	943.20	N/A	936.70	24"	RCP	East			
16	942.94	943.00	937.69	937.60	15"	RCP	North			
16	942.94	943.00	937.69	937.60	36"	RCP	South	354	353	1
16	942.94	943.00	937.69	937.60	18"	RCP	East			
16	942.94	N/A	938.79	N/A	15"	RCP	West			
20	944.57	945.00	939.67	939.98	15"	RCP	South	359	355	4
20	944.57	945.00	939.67	939.98	15"	RCP	East			
21	944.97	945.35	939.91	940.06	15"	RCP	North			
21	944.97	945.35	939.91	940.06	15"	RCP	West	20	56	-36

Thistlewaite Asbuilt

Structure #	Asbuilt T.C.	Design T.C.	Asbuilt Inv.	Design Inv.	Size	Type	Direction	Asbuilt Length	Design Length	Length Diff.
22	945.44	945.68	940.26	940.45	15"	RCP	North			
22	945.44	945.68	940.26	940.45	15"	RCP	South	108	110	-2
22	945.44	N/A	941.51	N/A	10"	PVC	East			
23	945.59	945.97	940.54	940.54	15"	RCP	South	14	24	-10
23	945.59	945.97	942.54	940.54	10"	Poly	North			
28	943.59	943.75	938.49	938.65	18"	RCP	East			
28	943.59	943.75	938.49	938.65	18"	Con. Tile	Southwest	Exist.	N/A	
30	943.69	944.00	938.79	938.97	18"	RCP	North			
30	943.69	944.00	938.79	938.97	18"	RCP	West	161	160	1
31	944.10	944.24	939.05	939.24	15"	Poly	North			
31	944.10	944.24	939.15	939.24	18"	RCP	South	159	140	19
31	944.10	N/A	941.78	N/A	6"	PVC	West			
31	944.10	N/A	940.08	N/A	12"	PVC	East			
33	942.09	941.80	938.44	938.80	24"	RCP	North	300	334	-34
33	942.09	941.80	939.14	938.80	15"	RCP	East			
34	942.13	942.50	939.43	939.50	12"	SDR 35	North	32	20	12
35	942.61	942.60	939.21	940.00	15"	RCP	West			
35	942.61	942.60	939.21	940.00	12"	SDR 35	South	26	24	2
36	943.12	943.20	935.53	935.65	60"	RCP	West	302	314	-12
36	943.12	943.20	935.88	936.12	54"	RCP	East			
36	943.12	943.20	937.47	937.46	24"	RCP	South			
36	943.12	943.20	938.60	N/A	15"	RCP	North			
37	943.01	942.20	938.91	939.60	15"	RCP	North	3	20	-17
38	942.76	942.50	938.66	939.20	15"	RCP	South	18	24	-6
38	942.76	942.50	938.66	939.20	15"	RCP	East			
39	942.63	942.50	939.53	939.40	15"	RCP	West	26	24	2
44	943.02	942.50	940.32	940.20	15"	RCP	East	27	20	7
45	942.80	942.40	940.30	940.10	15"	RCP	North	26	40	-14
45	942.80	942.40	940.30	940.10	15"	RCP	West			

Thistlewaite Asbuilt

Structure #	Asbuilt T.C.	Design T.C.	Asbuilt Inv.	Design Inv.	Size	Type	Direction	Asbuilt Length	Design Length	Length Diff.
46	942.82	942.40	939.77	939.84	18"	RCP	North	296	300	-4
46	942.82	942.40	939.87	939.84	15"	RCP	East			
47	942.82	942.50	940.17	940.00	15"	RCP	West	28	20	8
47	942.82	942.50	940.17	940.00	15"	RCP	West			
48	942.58	942.40	938.33	938.64	24"	RCP	North	328	332	-4
48	942.58	942.40	939.48	938.64	15"	RCP	East			
48	942.58	942.40	938.58	938.64	18"	RCP	South			
49	942.58	942.70	939.57	939.60	15"	RCP	West	24	24	0
49	942.58	942.70	939.57	939.60	15"	RCP	North			
50	942.84	942.50	939.69	940.00	15"	RCP	East	18	20	-2
51	942.59	942.50	939.65	939.80	15"	RCP	West			
51	942.59	942.50	939.65	939.80	15"	RCP	South	25	24	1
52	942.96	943.50	937.56	937.48	24"	RCP	South			
52	942.96	943.50	936.94	936.96	48"	RCP	East			
52	942.96	943.50	936.33	936.46	54"	RCP	West	330	336	-6
52	942.96	943.50	938.80	938.68	18"	RCP	North			
52	942.96	943.50	939.05	N/A	15"	RCP	Northeast			
53	942.76	943.00	939.38	940.50	15"	RCP	North	2	20	-18
54	942.91	942.70	939.65	939.90	15"	RCP	South	24	25	-1
54	942.91	942.70	939.70	939.90	15"	RCP	East			
55	942.59	942.70	941.08	940.20	15"	RCP	West	24	20	4
57	943.55	943.60	940.50	941.50	15"	RCP	West	33	20	13
58	943.19	943.50	939.99	941.30	18"	RCP	South	329	328	1
58	943.19	943.50	940.24	941.30	15"	RCP	North			
58	943.19	943.50	940.24	941.30	15"	RCP	East			
58	943.19	943.50	939.99	941.30	4"	PVC	North			
59	943.42	944.00	940.47	941.50	15"	RCP	South	20	24	-4
60	942.99	943.26	940.49	940.50	15"	RCP	East	21	24	-3
61	942.98	943.00	940.28	940.40	15"	RCP	West	20	35	-15

Thistlewaite Asbuilt

Structure #	Asbuilt T.C.	Design T.C.	Asbuilt Inv.	Design Inv.	Size	Type	Direction	Asbuilt Length	Design Length	Length Diff.
61	942.98	943.00	940.23	940.40	15"	RCP	North			
62	942.85	943.00	939.50	940.12	21"	RCP	North	303	305	-2
62	942.85	943.00	939.60	940.12	15"	RCP	East			
63	943.01	943.00	939.81	940.30	15"	RCP	West	24	24	0
63	943.01	943.00	939.81	940.30	15"	RCP	South			
64	943.03	943.60	938.83	938.65	21"	RCP	South			
64	943.03	943.60	939.33	938.65	15"	RCP	East			
64	943.03	943.60	938.68	938.65	24"	RCP	North	327	328	-1
65	943.12	943.30	939.62	939.70	15"	RCP	West	23	24	-1
65	943.12	943.30	939.82	939.70	15"	RCP	North			
66	943.10	943.00	940.45	940.50	15"	RCP	East	20	20	0
67	942.94	943.00	940.39	940.10	15"	RCP	West			
67	942.94	943.00	940.49	940.10	15"	RCP	South	21	24	-3
68	943.09	943.20	938.34	938.33	21"	RCP	North			
68	943.09	943.20	938.00	937.99	24"	RCP	South			
68	943.09	943.20	937.31	937.32	48"	RCP	East			
68	943.09	943.20	937.31	937.32	48"	RCP	West	350	360	-10
68	943.09	943.20	939.72	N/A	15"	RCP	Northwest			
69	943.20	943.00	940.30	940.70	15"	RCP	North	19	24	-5
70	943.18	943.20	940.18	940.70	15"	RCP	East	23	24	-1
71	943.20	943.20	940.05	940.20	15"	RCP	West	33	20	13
71	943.20	N/A	940.05	N/A	15"	RCP	South			
71	943.20	N/A	940.05	N/A	15"	RCP	Southeast			
72	943.20	943.20	939.65	939.66	21"	RCP	South	327	332	-5
72	943.20	943.20	939.80	939.66	15"	RCP	East			
73	943.12	943.20	939.97	939.90	15"	RCP	North			
73	943.12	943.20	939.92	939.90	15"	RCP	South	21	24	-3
74	943.09	943.20	939.94	940.30	15"	RCP	East	25	24	1
75	942.97	943.20	939.97	940.10	15"	RCP	West			
75	942.97	943.20	940.02	940.10	15"	RCP	South	19	24	-5

Thistlewaite Asbuilt

Structure #	Asbuilt T.C.	Design T.C.	Asbuilt Inv.	Design Inv.	Size	Type	Direction	Asbuilt Length	Design Length	Length Diff.
76	943.63	943.80	940.78	941.10	15"	RCP	East	20	24	-4
76	943.63	943.80	940.88	941.10	15"	RCP	North			
77	943.70	943.80	940.75	940.70	15"	RCP	North	20	30	-10
77	943.70	943.80	940.75	940.70	15"	RCP	West			
78	943.78	944.00	940.93	941.50	15"	RCP	South	20	30	-10
79	943.74	944.00	939.89	939.82	18"	RCP	North	327	304	23
79	943.74	944.00	940.59	939.82	15"	RCP	South			
80	943.65	944.00	941.30	940.00	15"	RCP	East			
80	943.65	944.00	941.25	940.00	15"	RCP	North	21	24	-3
81	943.61	944.00	941.51	938.51	15"	RCP	West	17	20	-3
82	943.50	943.60	940.20	940.40	15"	RCP	East	23	24	-1
82	943.50	943.60	941.25	940.40	15"	RCP	South			
83	943.72	943.60	938.47	940.80	30"	RCP	North	303	334	-31
83	943.72	943.60	938.52	940.80	18"	RCP	South			
83	943.72	943.60	939.12	940.80	15"	RCP	West			
84	943.78	943.70	940.68	941.10	15"	RCP	North	18	20	-2
85	943.70	943.70	940.15	N/A	15"	RCP	Northwest			
85	943.70	943.70	939.70	939.85	21"	RCP	North			
85	943.70	943.70	940.05	940.22	21"	RCP	East			
85	943.70	943.70	938.25	938.18	30"	RCP	South			
85	943.70	943.70	937.80	937.68	48"	RCP	West	355	360	-5
86	943.68	943.60	940.53	940.60	15"	RCP	South			
86	943.68	943.60	940.53	940.60	15"	RCP	East			
86	943.68	943.60	940.53	940.60	15"	RCP	Southeast	27	20	7
87	943.89	943.60	940.64	941.10	15"	RCP	West	17	16	1
88	944.35	944.50	941.75	941.50	15"	RCP	North			
88	944.35	944.50	941.75	941.50	15"	RCP	East	16	20	-4
89	944.41	944.50	940.91	941.15	21"	RCP	South	325	326	-1
89	944.41	944.50	941.06	941.15	15"	RCP	West			

Thistlewaite Asbuilt

Structure #	Asbuilt T.C.	Design T.C.	Asbuilt Inv.	Design Inv.	Size	Type	Direction	Asbuilt Length	Design Length	Length Diff.
90	944.38	944.50	942.03	941.75	15"	RCP	South	24	24	0
90	944.38	944.50	942.23	941.75	15"	RCP	East			
90	944.38	944.50	942.78	941.75	6"	PVC	Northwest			
91	944.74	944.50	942.29	942.00	15"	RCP	West	17	20	-3
103	941.77	942.20	938.70	939.70	15"	RCP	North	19	18	1
104	942.13	942.20	939.13	939.20	15"	RCP	South	2	30	-28
105	942.53	942.80	939.38	940.00	15"	RCP	South	23	24	-1
106	942.57	943.00	935.15	935.34	60"	RCP	East			
106	942.57	943.00	935.15	935.34	60"	RCP	West	329	340	-11
106	942.57	943.00	938.86	N/A	15"	RCP	North			
107	946.88	947.00	942.72	943.90	15"	RCP	South	27	24	3
107	946.88	N/A	943.22	N/A	6"	PVC	East			
108	946.69	947.00	943.49	943.22	21"	RCP	West	297	30	267
108	946.69	947.00	943.46	N/A	15"	RCP	East			
108	946.69	947.00	943.98	N/A	15"	RCP	North			
110	946.97	N/A	944.57	N/A	6"	PVC	South			
110	946.97	947.00	944.45	944.50	15"	RCP	West	27	24	3
								8962	8950	12
							Total lengths per size			
					12"	PVC		58		
					15"	RCP		1406		
					18"	RCP		1322		
					21"	RCP		1252		
					24"	RCP		955		
					30"	RCP		303		
					36"	RCP		354		
					48"	RCP		1009		
					54"	RCP		666		
					60"	RCP		631		
					72"	RCP		1006		
							Total::	8962		

The original report mentioned above indicated that the new Drain reconstruction would add 12,175 feet of Drain. The difference in what was proposed and built is due to the omission of Alternative #1 which was as follows:

1. Fifth Street Arm from the new Arm 2 to the east to W. Elm Street intersection, which consisted of 780 feet.
2. Sixth Street Arm from the new Arm 2 to the east to Hamilton Ave. intersection, which consisted of 650 feet

The length of the drain due to the changes described above is 8,962 feet. The length of the original Drain which was either removed or vacated was 2,550 feet. Therefore, there was a net gain of 6,412 feet to the Drains overall length.

Funding for this project came from several sources. Those sources included a general obligation bond issued by the Town of Sheridan, The Indiana State Highway Department, the General Drain Improvement Fund, Maintenance Funds for the Thistlewaite Drain and a bank loan.

On March 21, 2001 the Town of Sheridan issued a storm water district bond in the amount of \$1,040,000.00 of which \$900,000.00 was used for payment of the project. In conjunction with this was a bank loan from MetroBank in the not to exceed amount of \$100,000.00. This was set up to pay the portion of the construction costs to be paid by the Town of Sheridan per an Interlocal Agreement dated April 9, 2001. (See Minute Book 6, page 18) The loan with MetroBank was discussed by the Board on April 23, 2001. (See Minute Book 6, page 34) The loan was approved by the Board on August 27, 2001 (See Minute Book 6, pages 112 – 113) and executed by the Board on October 22, 2001 (See Minute Book 6, Page 187). The Board should obtain the funds from this loan at this time. The final loan amount is \$85,040.85.

On January 22, 2001 (Minute Book 5, Page 550) the Board of Commissioners entered into an Interlocal Agreement with the Indiana Department of Transportation for the states reimbursement of the cost of the new structure under State Road 47. The reimbursement is per IC 36-9-27-71. The agreement was for an amount not to exceed \$105,000.00. The total reimbursement from the State for this work was \$74,780.46.

At this time the contract costs for Grade-X have been paid as follows:

Bank Loan	\$ 35,040.85
State	\$ 74,780.46
Sheridan	\$ <u>939,297.23</u>
Total	\$1,099,118.54

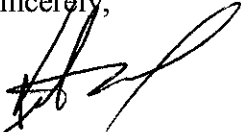
This Office recommends that the Performance and Payment bonds from St. Paul Fire and Marine Insurance Company, number 400SG2467: in the amount of one hundred

percent of the Principal's bid be released. This is based on the final inspection made by Mr. Kurt J. Wanninger of this office on August 13, 2002.

The retainage, which was placed in escrow with Bank One, should be released by the Board at this time.

I recommend the Board approve the Drains construction as completed and acceptable.

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Ward', with a large, sweeping flourish extending to the right.

Kenton C. Ward
Hamilton County Surveyor

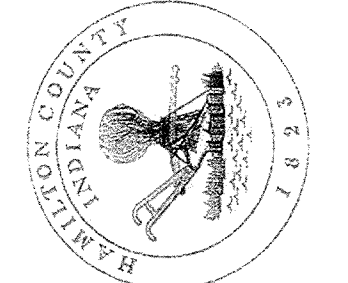
KCW/ilm

HAMILTON COUNTY SURVEYOR'S OFFICE

AS-BUILTS FOR THE

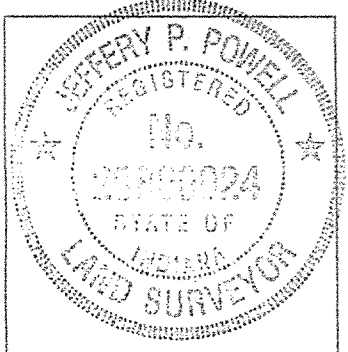
EAST LEG OF THE THISTLEWAITE DRAIN

HAMILTON COUNTY, INDIANA
 Hamilton County Surveyor's Office
 Hamilton County Government and
 Judicial Center
 One Hamilton County Square, Suite 188
 Noblesville, IN 46060
 (317) 776-8435
 survey@hcco.hamilton.in.us



Project No.	Watershed No.	Dgn Name: AS-BUILT 15
By: R. Durham	Field By: FM & JP	Drawn By: DW
Date: 11-15-2000	Checked By: TB, R. & RW	Date: 02-07-2003
09-01-2002		
09-14-2002		
02-07-2003		

Revisions:	AS-BUILTS ELEVATION
Revised	AS-BUILTS ELEVATION
AS-BUILTS	Revised



Certified By:
Jeffery P. Powell

Project Name:
 AS-BUILTS FOR THE
 EAST LEG DESIGN THISTLEWAITE

Title Sheet

PLOT DATE: 12-FEB-2003

AS-BUILTS FOR THE

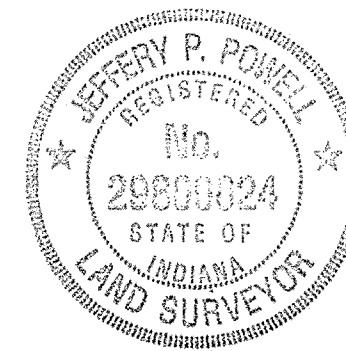
DISCLAIMER AND CERTIFICATION FOR THE THISTLEWAITE DRAIN.

THE THISTLEWAITE REGULATED DRAIN AS-BUILT PLANS HAVE BEEN PREPARED FOR THE USE OF HAMILTON COUNTY SURVEYOR'S OFFICE. ALL OTHER PERSONS OR ORGANIZATIONS USING THESE AS-BUILT PLANS ARE RESPONSIBLE FOR VERIFYING THE EXISTING LOCATION, ELEVATION AND SIZE OF THE STRUCTURES AND PIPES. NEITHER THE HAMILTON COUNTY SURVEYOR'S OFFICE, BUTLER, FAIRMAN & SEUFERT, INC. OR MYSELF SHALL BE HELD LIABLE OR RESPONSIBLE FOR ANY DISCREPANCIES OR ERRORS RESULTING FROM THE USE OF THESE AS-BUILT PLANS.

NOTE: HAMILTON COUNTY HAS PROVIDED THE INFORMATION REGARDING THE ELEVATIONS FOR THE TOP OF CASTINGS AND INVERTS, BUTLER, FAIRMAN & SEUFERT, INC. HAS PROVIDED THE INFORMATION ON THE PIPE LENGTHS OUTSIDE OF STRUCTURE, UTILITY CROSSINGS, AND OTHER MISCELLANEOUS INFORMATION.

THIS AS-BUILT SURVEY WAS PERFORMED UNDER MY DIRECTION AND IS TRUE AND ACCRETE TO THE BEST OF MY KNOWLEDGE AS SURVEYED BY ME.

Jeffery P. Powell
 JEFFERY P. POWELL L.S.
 INDIANA #29800024
 SURVEY MANAGER
 HAMILTON COUNTY
 SURVEYOR'S OFFICE
 CERTIFICATION DATE APRIL 11, 2002
 FIELDWORK DATE WINTER, 2002

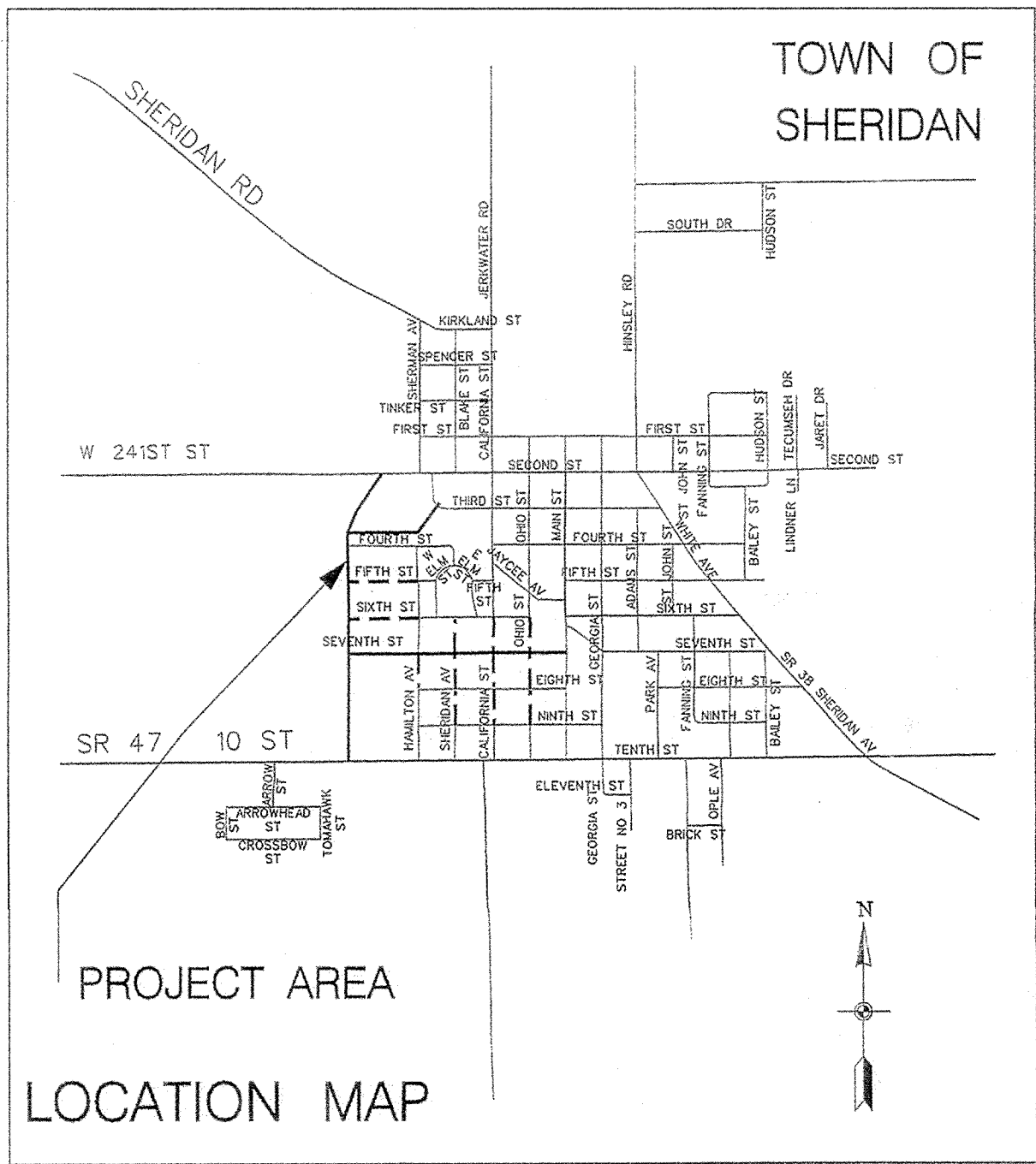


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Entry Date: 7-9-04
 Entered by: *JP*

RECORD DRAWINGS OF CONSTRUCTED PROJECT PER INFORMATION COLLECTED DURING THE PROJECT AS PROVIDED BY BUTLER, FAIRMAN & SEUFERT, INC.

BUTLER, FAIRMAN AND SEUFERT, INC.
 8450 WESTFIELD BOULEVARD, SUITE 300
 INDIANAPOLIS, IN 46240-8302
 317-713-4615 FAX 317-713-4616



LOCATION MAP

--- BASE BID
 - - - ALTERNATIVE ONE
 . . . ALTERNATIVE TWO



BASE BID		ALTERNATIVE ONE		MISC	
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1	TITLE SHEET	8	5TH ST	14	STRUCTURE DATA
2	SR 47	9	6TH ST	15	STRUCTURE DATA
3	MAIN LINE (SOUTH)			16	STRUCTURE DATA
4	MAIN LINE (NORTH)	10	HAMILTON ST	17	STRUCTURE DATA
5	4TH ST	11	SHERIDAN ST		
6	7TH ST (WEST)	12	CALIFORNIA ST		
7	7TH ST (EAST)	13	OHIO ST		

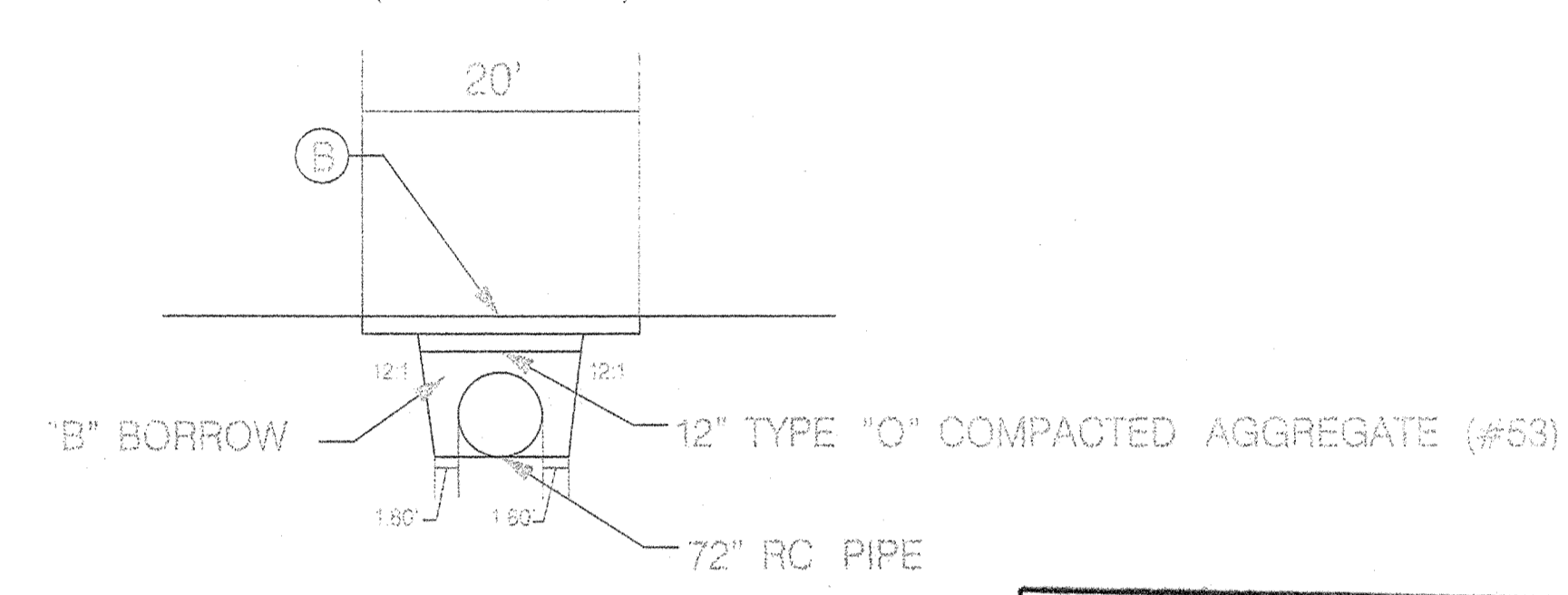
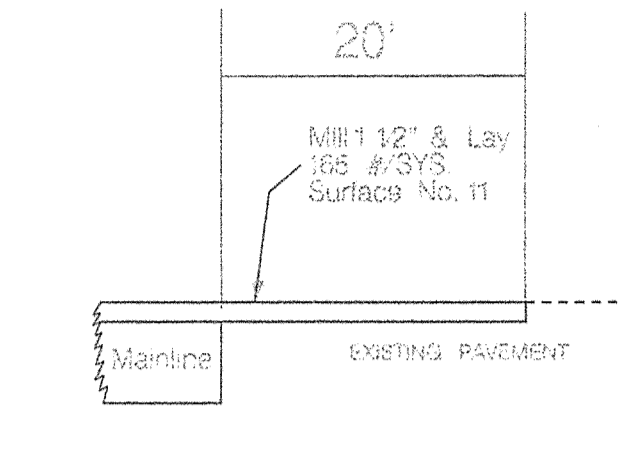
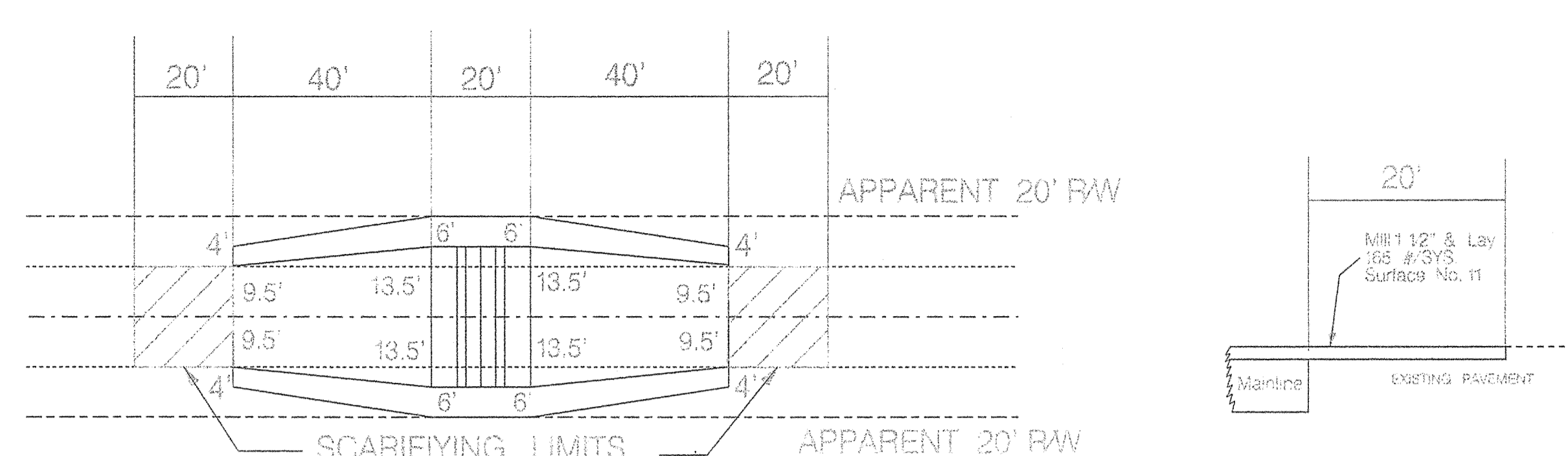
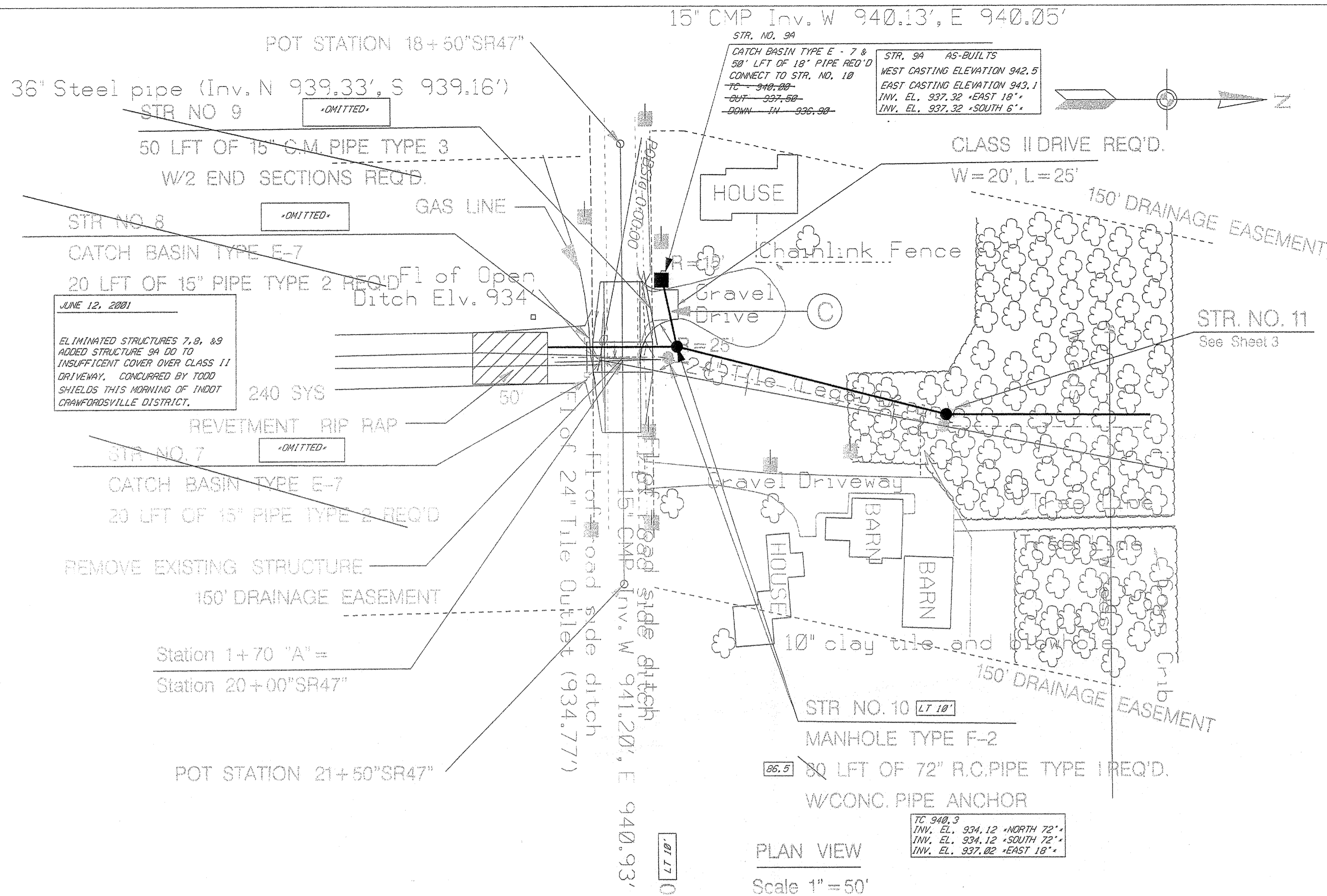
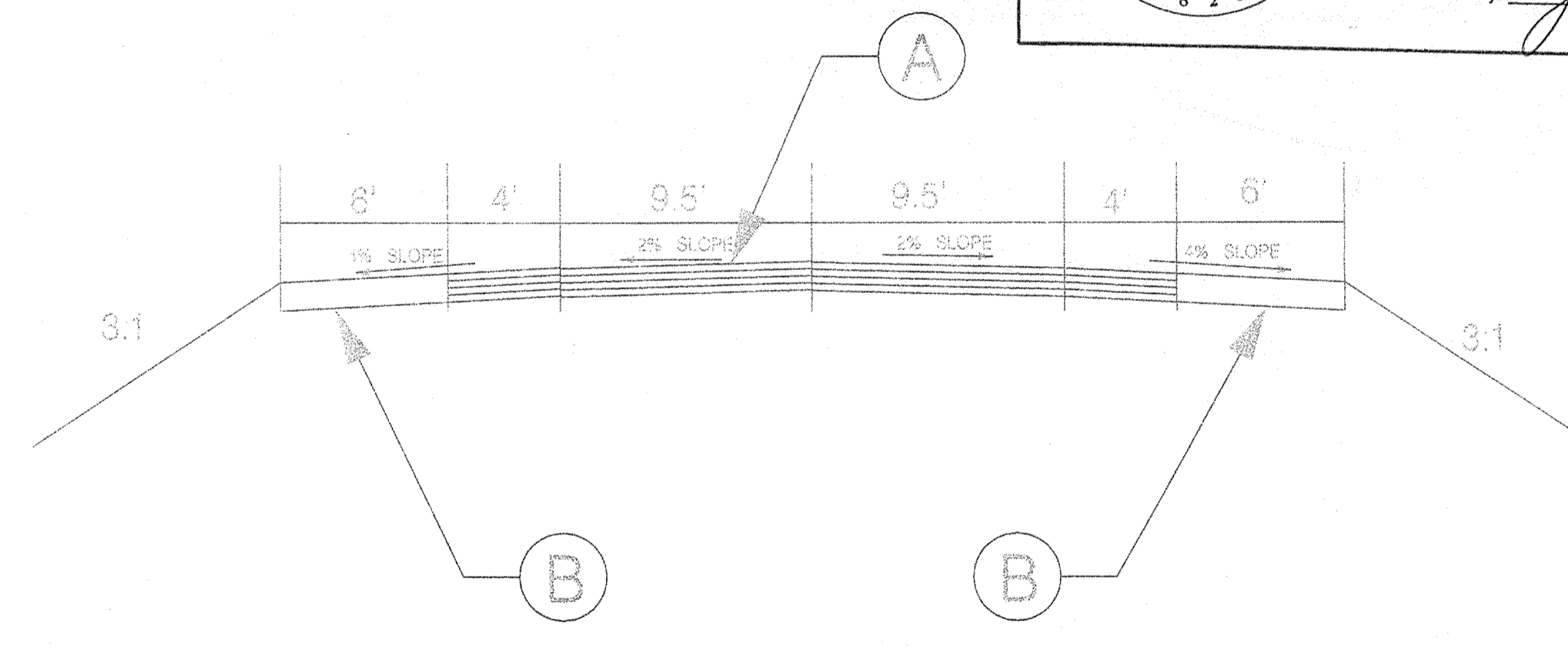
HAMILTON COUNTY SURVEYOR'S OFFICE

KENTON C. WARD, COUNTY SURVEYOR

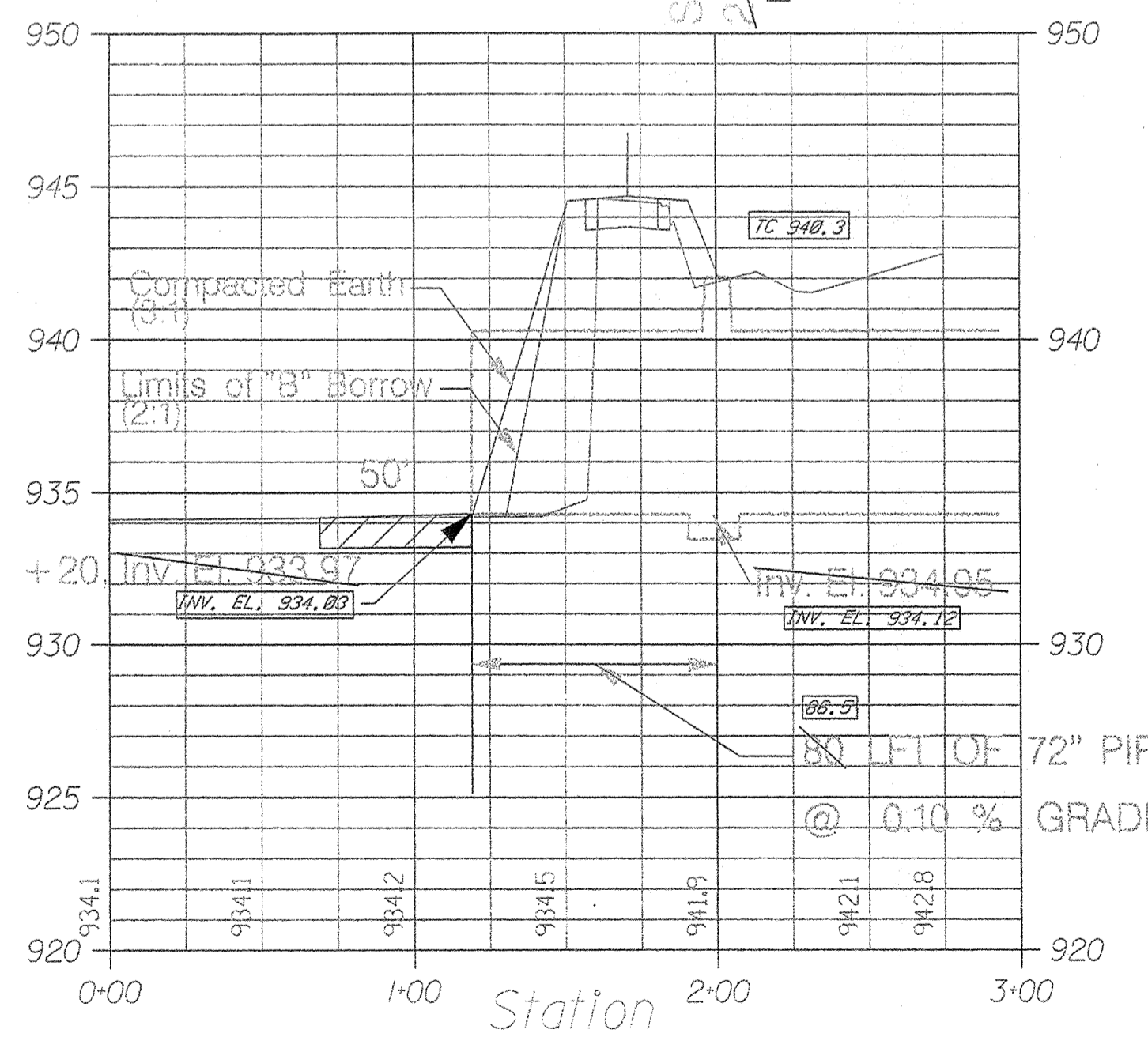
HAMILTON COUNTY DRAINAGE BOARD

STEVEN A. HOLT, PRESIDENT
 STEVEN C. DILLINGER, MEMBER
 SHARON R. CLARK, MEMBER

Operating Authorities	
Sanitary Town of Sheridan 506 S. Main St. Sheridan, IN 46069 (317) 758-1323 Rocky Burgan	Hamilton Co. Highway Dept. 1700 S. 10th Street Noblesville, Indiana 46060 (317) 773-7770
Cable CATV - Galaxy 106 S. Main St. Sheridan, IN 46069 (317) 758-1342	Gas Indiana Gas Company 15900 Allisonville Rd. Noblesville, IN 46060 (317) 776-5534 Don Perdue
Water Sheridan Water 507 S. Ohio St. Sheridan, IN 46069 (317) 758-1323 Rocky Burgan	Communication Ameritech 5858 N. College Ave. Indianapolis, IN 46220 (317) 252-4258 Greg Cammack
Electrical Cinergy / PSI 100 S. Millcreek Rd. Noblesville, IN 46060 (317) 773-5331 Brad Blackman	

- (A) 165 #/SYS. SURFACE NO. 11 (Main Line)
990 #/SYS. 3 LIFTS OF BASE, 5 (Main Line)
- (B) TYPE "O" COMPACTED SHOULDER (10")
- (C) HMA FOR APPROACHES
140#SYS SURFACE ON
300 #/SYS INTERMEDIATE ON
8" COMPACTED AGREEEGATE BASE. #53



PROFILE VIEW
Horizontal Scale 1" = 50'
Vertical Scale 1" = 5'

- GENERAL NOTES
- THE FOLLOWING INDOT STANDARD DRAWINGS SHALL APPLY TO THE WORK ON SR 47:
E 610-DRIV-04 CLASS II DRIVEWAY
E 720-MHCA-04 TYPE 2 CASTING
E 720-MHST-04 MANHOLE TYPE F
E 720-EDCA-01 TYPE 7 CASTING
E 720-CBST-03 CATCH BASIN TYPE E
E 715-BKFL-04 BACKFILL REQUIREMENTS
E 715-SPCA-02 CONCRETE ANCHOR
 - PAVEMENT REMOVAL WITHIN THE 100' AREA TO BE INCLUDED IN THE COST OF STRUCTURE REMOVAL.
 - ALL PIPES ARE RCP UNLESS OTHERWISE NOTED

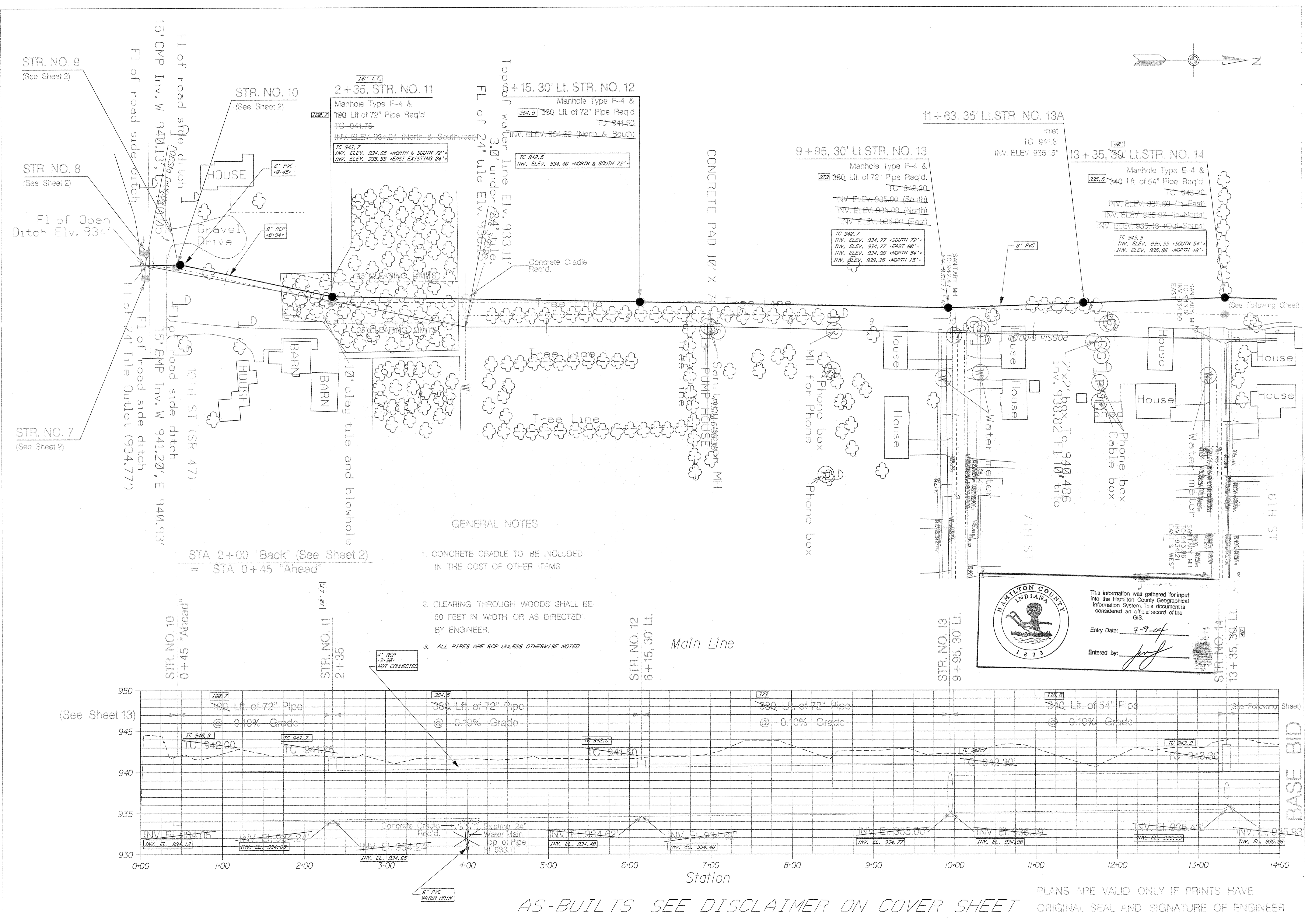
Project Name:
AS-BUILTS FOR THE EAST LEG DESIGN THISTLEWAITE

EAST LEG OF THE THISTLEWAITE
11-22-2000 Revised
As Builts Done By Jeff Coppock 03-01-2002
As Builts El. Done By Jeff Coppock 03-14-2002
PLOT DATE: 12-FEB-2003

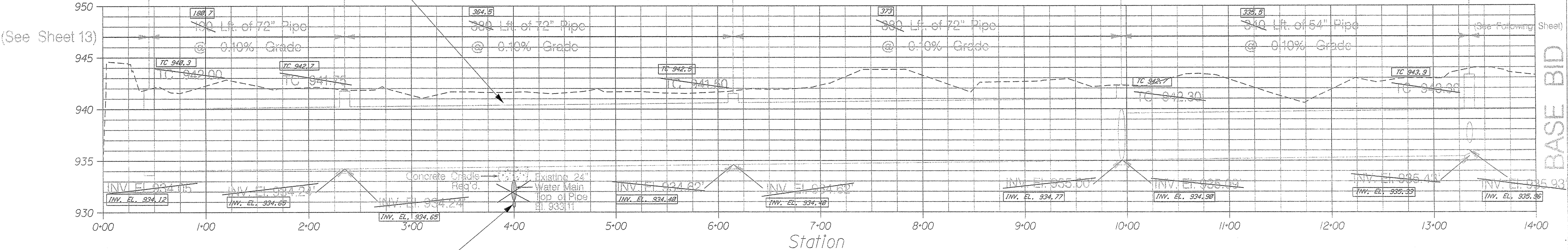
HAMILTON COUNTY, INDIANA
Hamilton County Surveyor's Office
Hamilton County Government and Judicial Center
One Hamilton County Square, Suite 146
Noblesville, IN 46060

SEE DISCLAIMER ON COVER SHEET
AS-BUILTS BASE BID

SHEET NO.
2



- GENERAL NOTES**
1. CONCRETE CRADLE TO BE INCLUDED IN THE COST OF OTHER ITEMS
 2. CLEARING THROUGH WOODS SHALL BE 50 FEET IN WIDTH OR AS DIRECTED BY ENGINEER.
 3. ALL PIPES ARE RCP UNLESS OTHERWISE NOTED



HAMILTON COUNTY INDIANA
 1825
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 Entry Date: 7-9-02
 Entered by: [Signature]

AS-BUILTS SEE DISCLAIMER ON COVER SHEET

PLANS ARE VALID ONLY IF PRINTS HAVE ORIGINAL SEAL AND SIGNATURE OF ENGINEER

Project Name:
 AS-BUILTS FOR THE
EAST LEG DESIGN
THISTLEWAITE

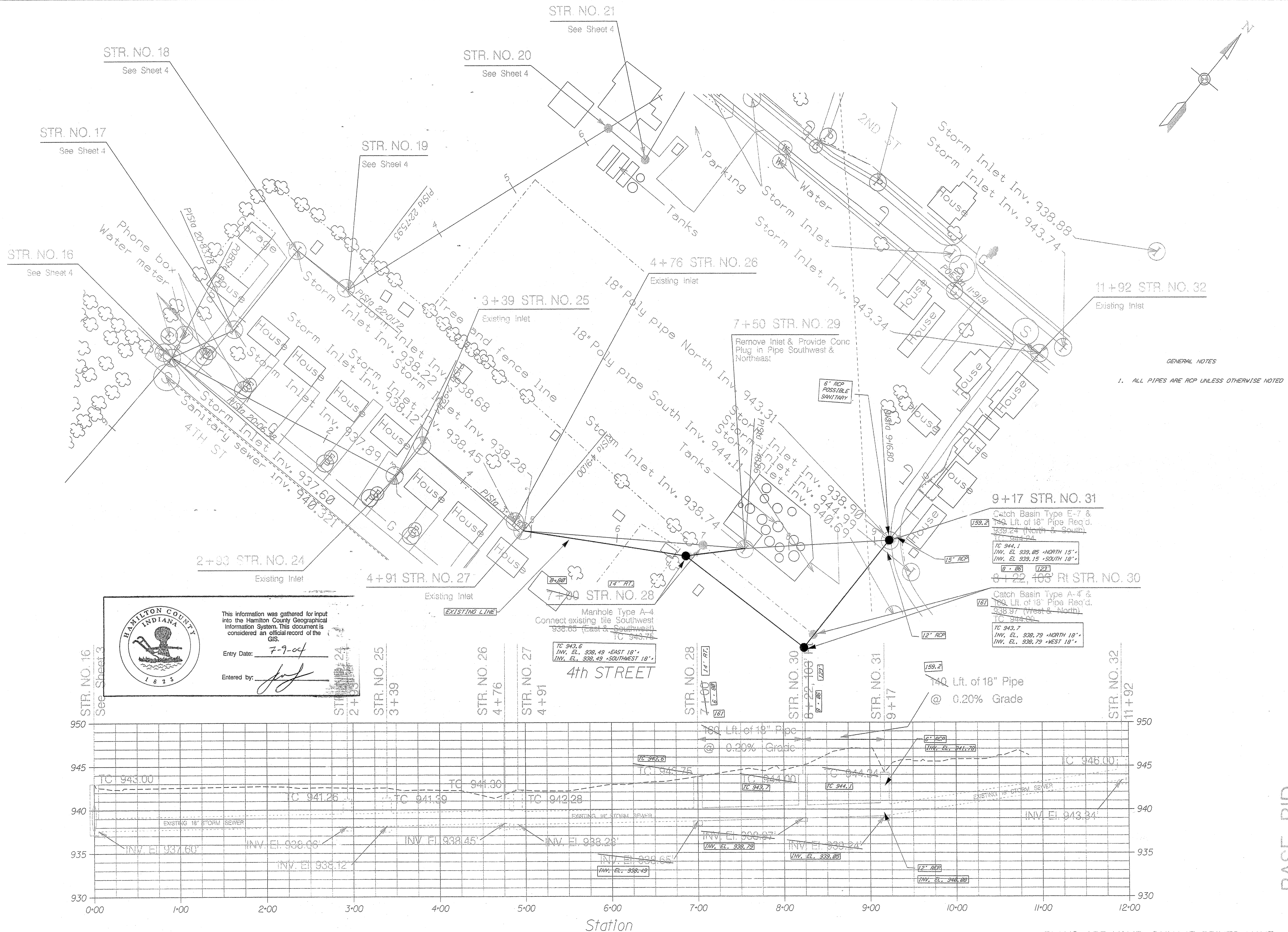
EAST LEG OF THE THISTLEWAITE
 08-02-2000 Plan & Profile Sheets Created
 11-15-2000 Revised
 As Built Done By Jeff Coppock 03-01-2002
 As Built El. Done By Jeff Coppock 03-14-2002

PLOT DATE: 12-FEB-2003

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SHEET NO.
 3

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GENERAL NOTES
 1. ALL PIPES ARE RCP UNLESS OTHERWISE NOTED

HAMILTON COUNTY INDIANA
 1825

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BASE BID

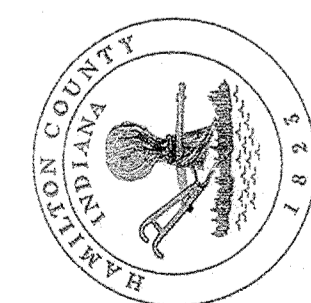
AS-BUILTS SEE DISCLAIMER ON COVER SHEET

PLANS ARE VALID ONLY IF PRINTS HAVE ORIGINAL SEAL AND SIGNATURE OF ENGINEER

Project Name:
 AS-BUILTS FOR THE
EAST LEG DESIGN
 THISTLEWAITE

EAST LEG OF THE THISTLEWAITE
 08-02-2000 Plan & Profile Sheets Created
 11-15-2000 Revised
 As Built Done By Jeff Coppock 03-01-2002
 As Built El. Done By Jeff Coppock 03-14-2002
 PLOT DATE: 12-FEB-2003

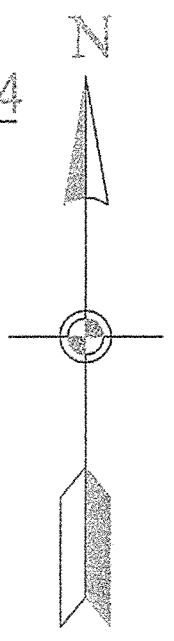
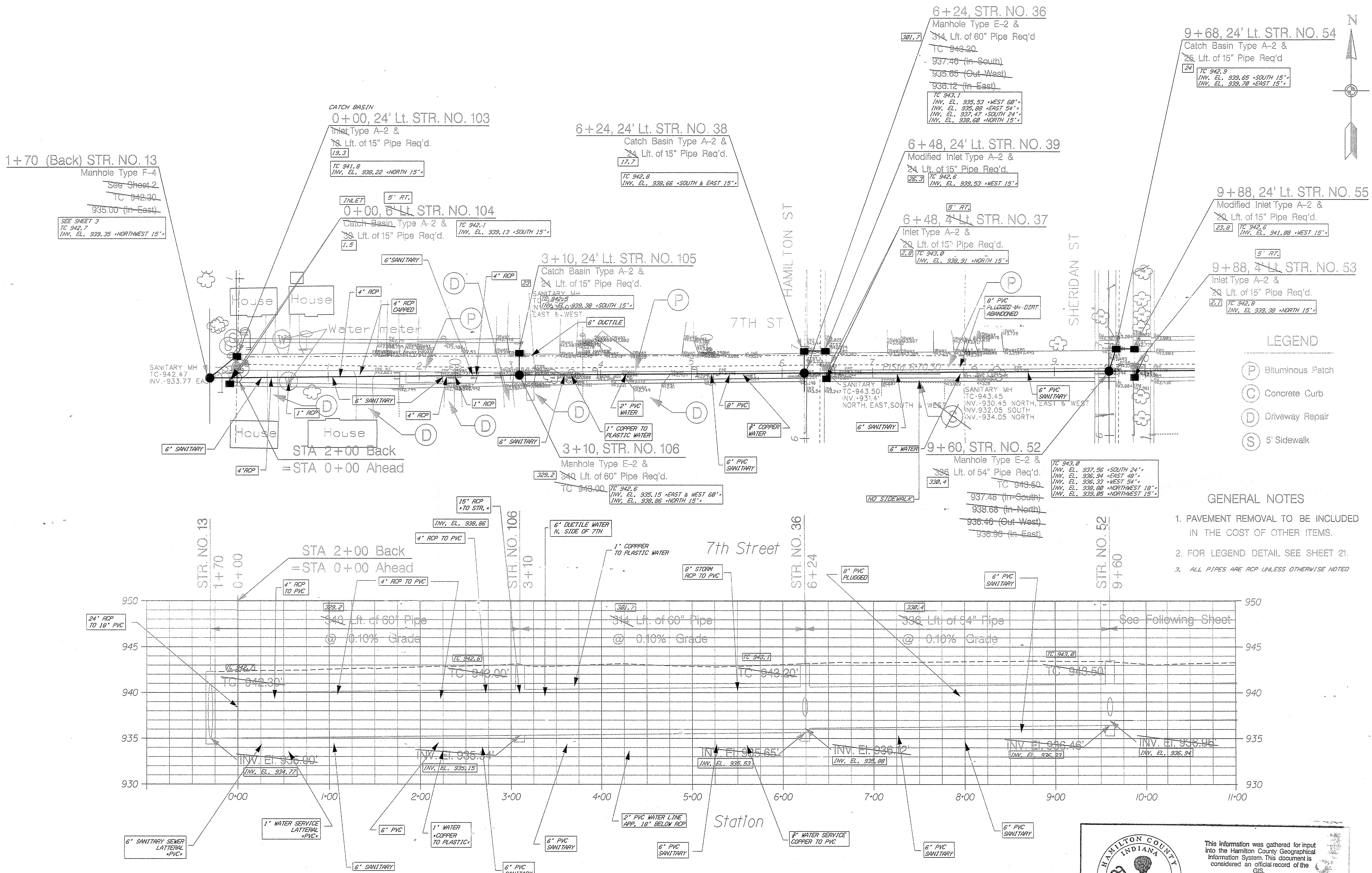
HAMILTON COUNTY, INDIANA



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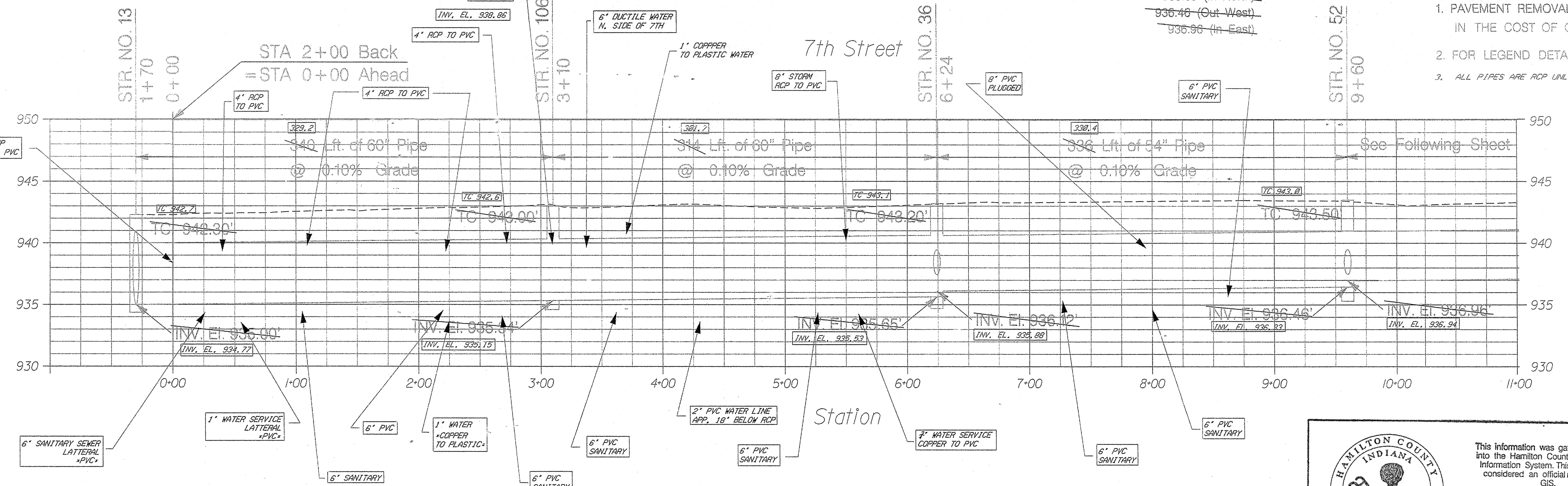
SHEET NO.
5

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- LEGEND**
- (P) Bituminous Patch
 - (C) Concrete Curb
 - (D) Driveway Repair
 - (S) 5' Sidewalk

- GENERAL NOTES**
1. PAVEMENT REMOVAL TO BE INCLUDED IN THE COST OF OTHER ITEMS.
 2. FOR LEGEND DETAIL SEE SHEET 21.
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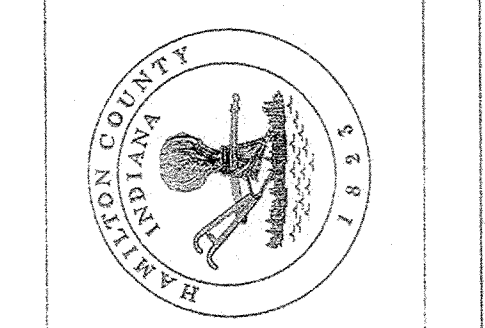
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Project Name:
**AS-BUILTS FOR THE
 EAST LEG DESIGN
 THISTLEWATE**

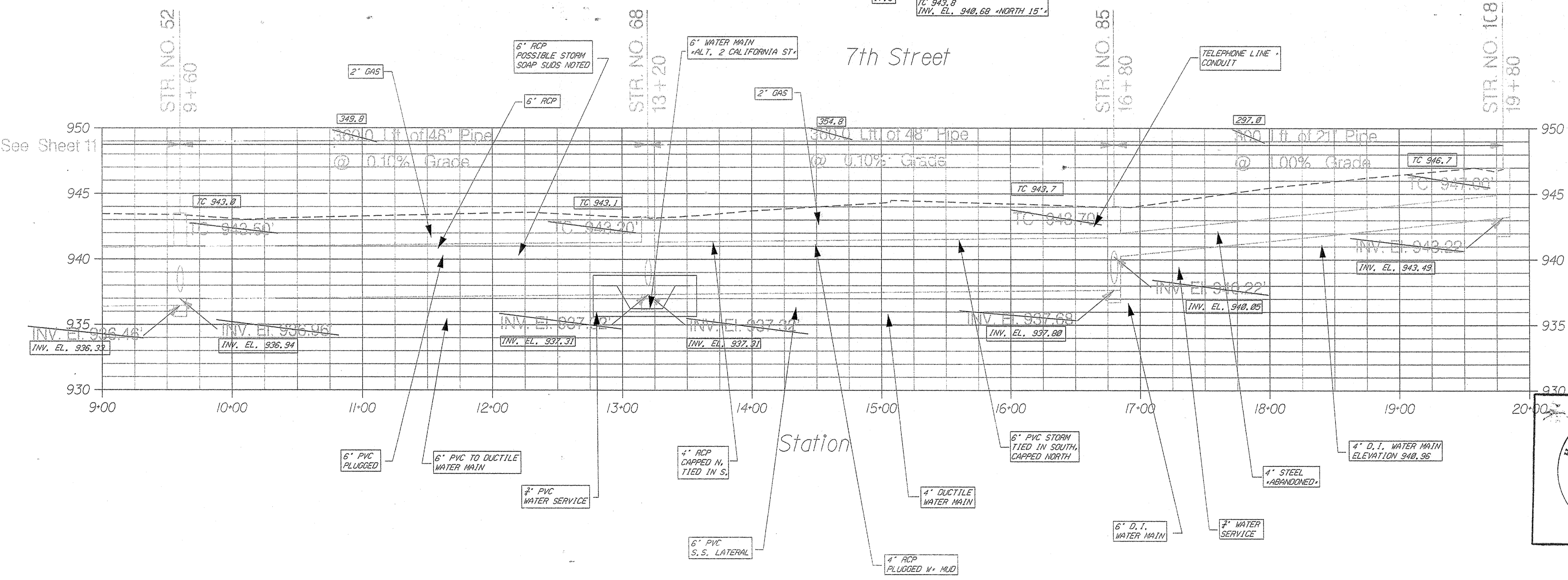
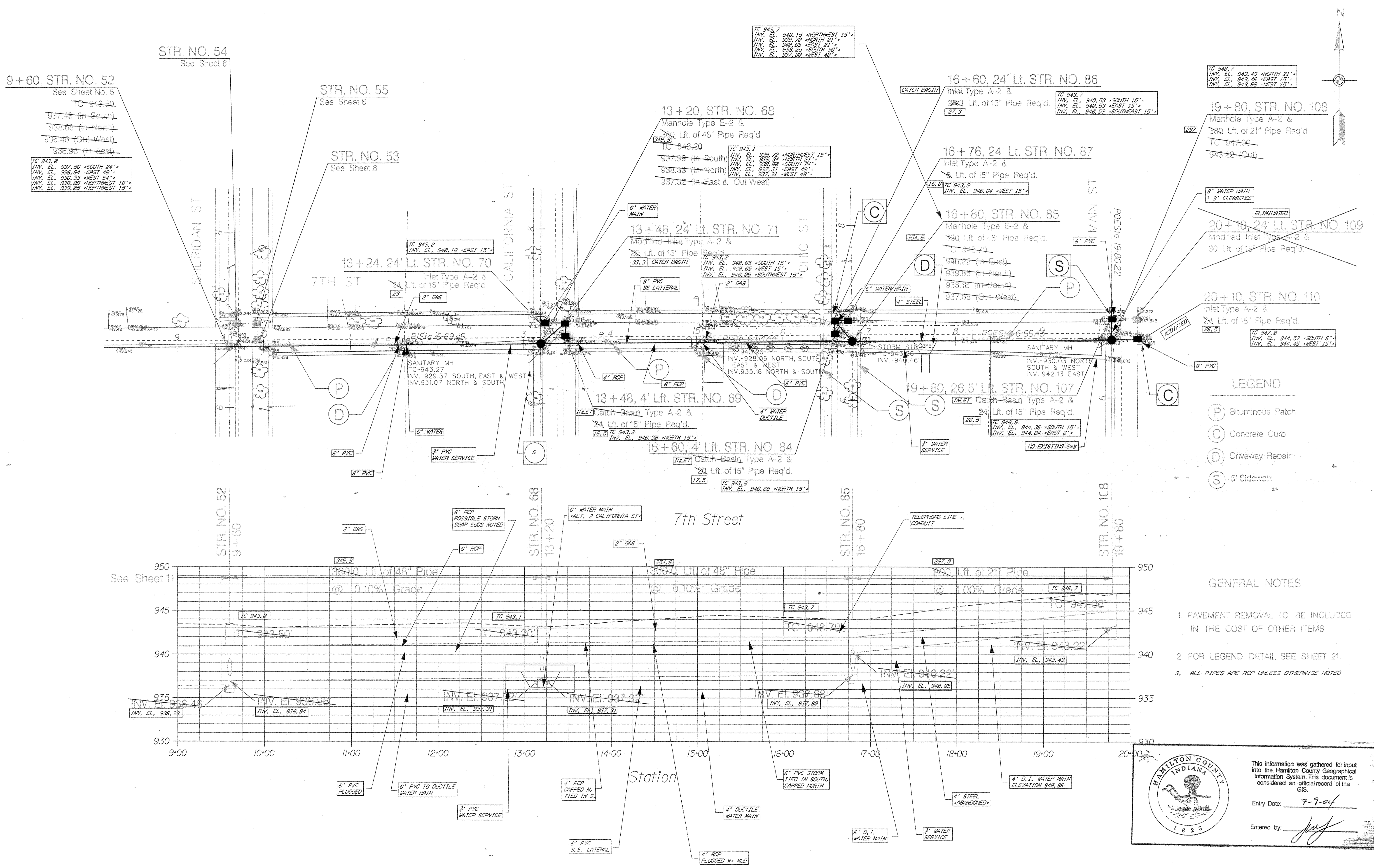
EAST LEG OF THE THISTLEWATE
 08-02-2000 Plan & Profile Sheets Created
 11-15-2000 Revised
 As Built Done By Jeff Coppock 03-01-2002
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6

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- LEGEND**
- (P) Bituminous Patch
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GENERAL NOTES

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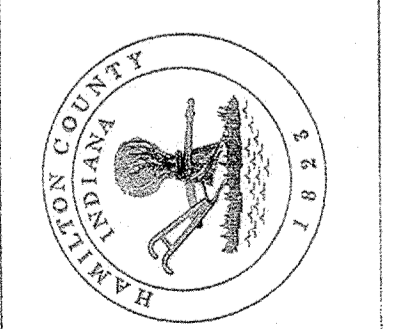
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Project Name:
**AS-BUILTS FOR THE
 EAST LEG DESIGN
 THISTLEWAITE**

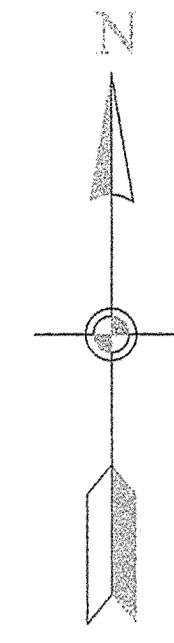
EAST LEG OF THE THISTLEWAITE
 08-03-2000 Plan & Profile Sheets Created
 11-15-2000 Revised
 As Built Done By Jeff Coppock 03-01-2002
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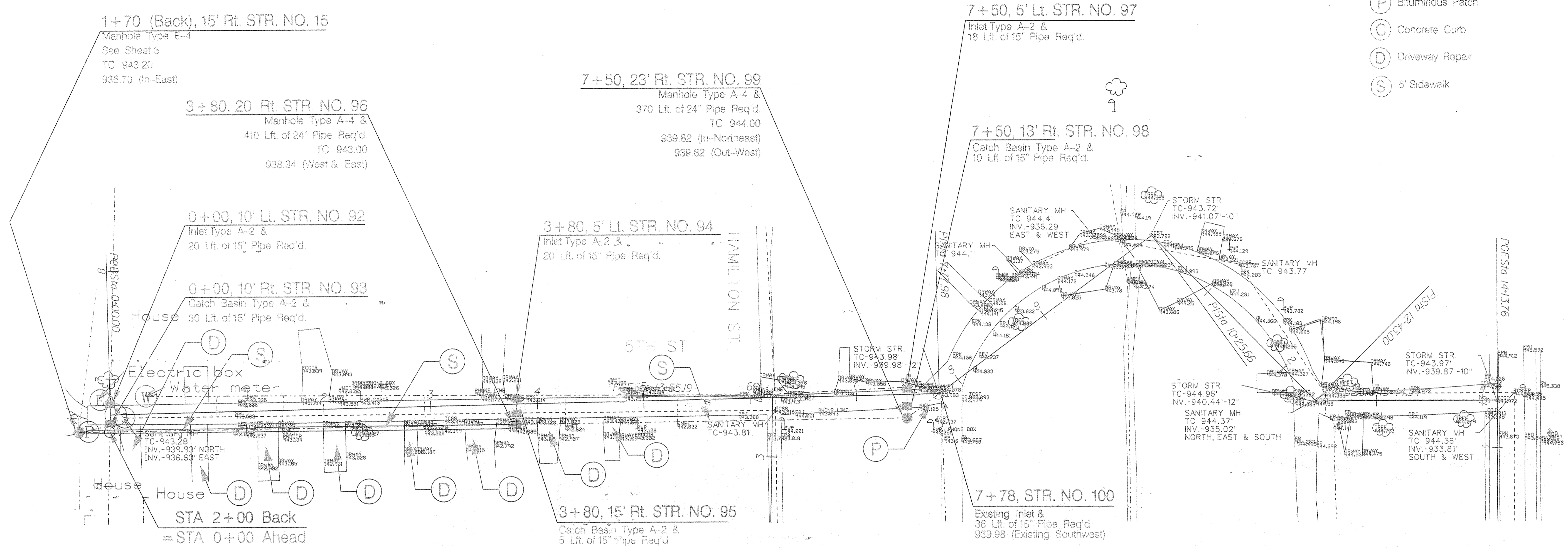


SHEET NO.
7



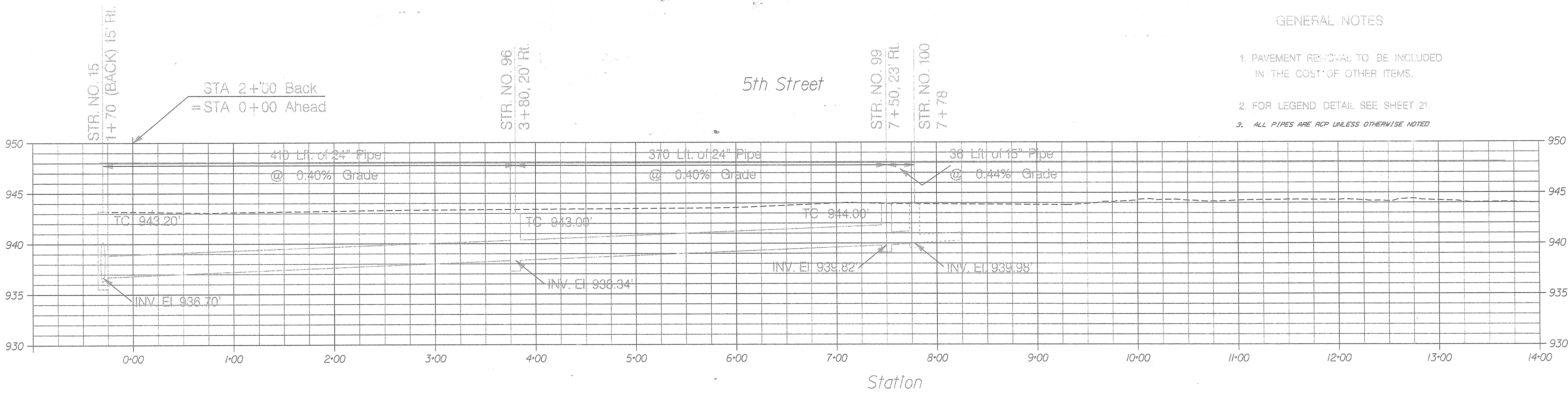
LEGEND

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ALTERNATIVE ONE

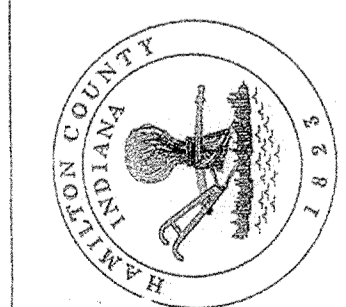
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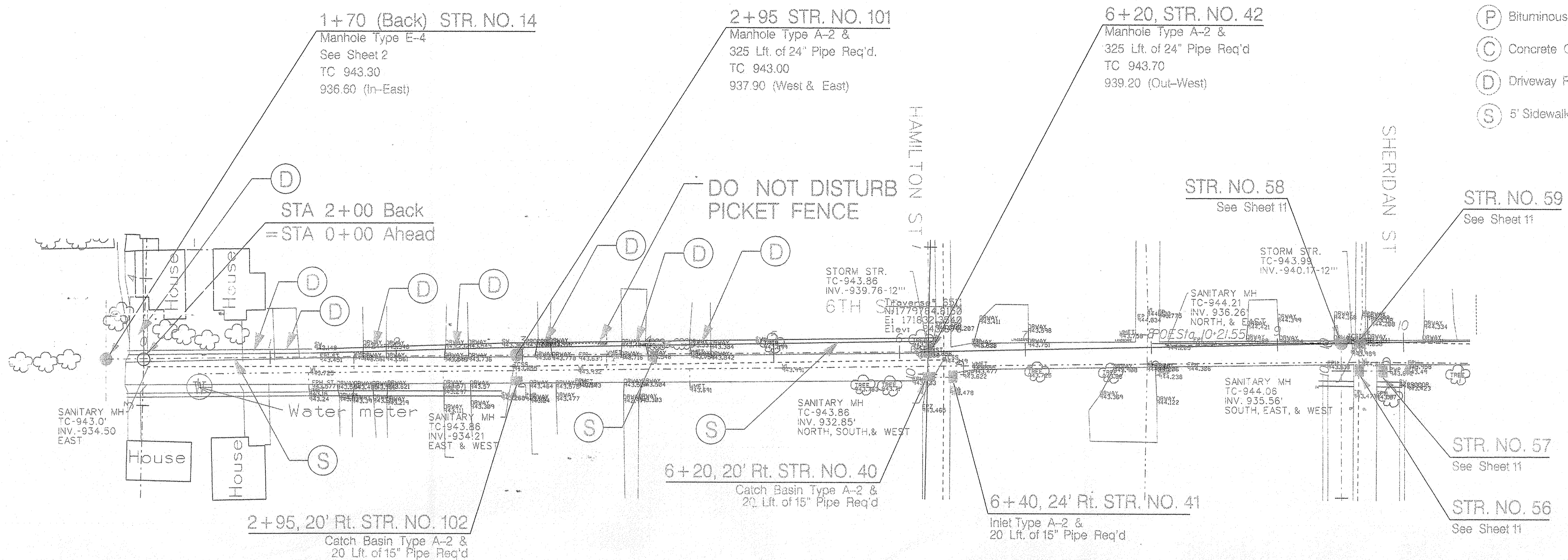
EAST LEG OF THE THISTLEWAITE
 08-02-2000 Plan & Profile Sheets Created
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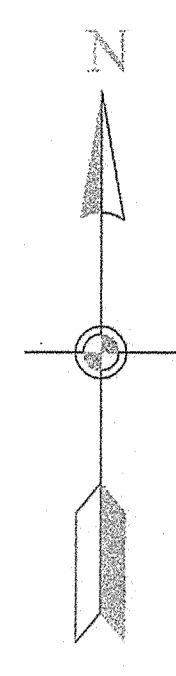


SHEET NO.
8



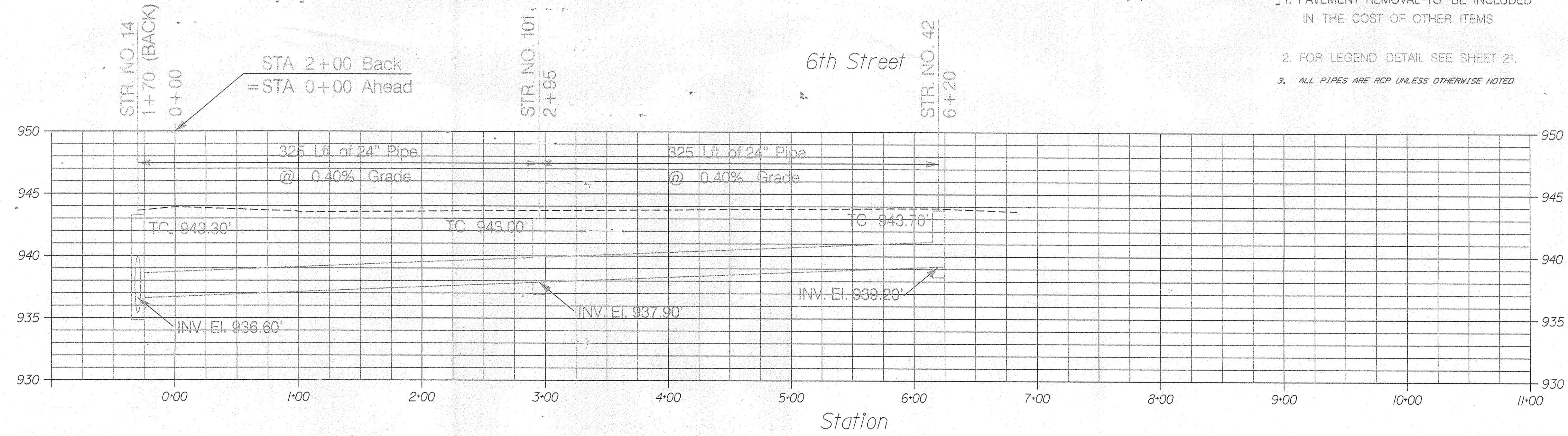
LEGEND

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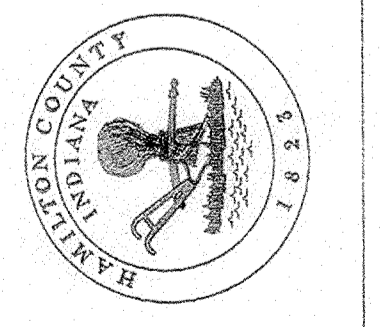
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08-02-2000 Plan & Profile Sheets Created
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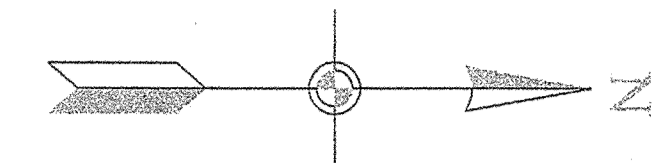
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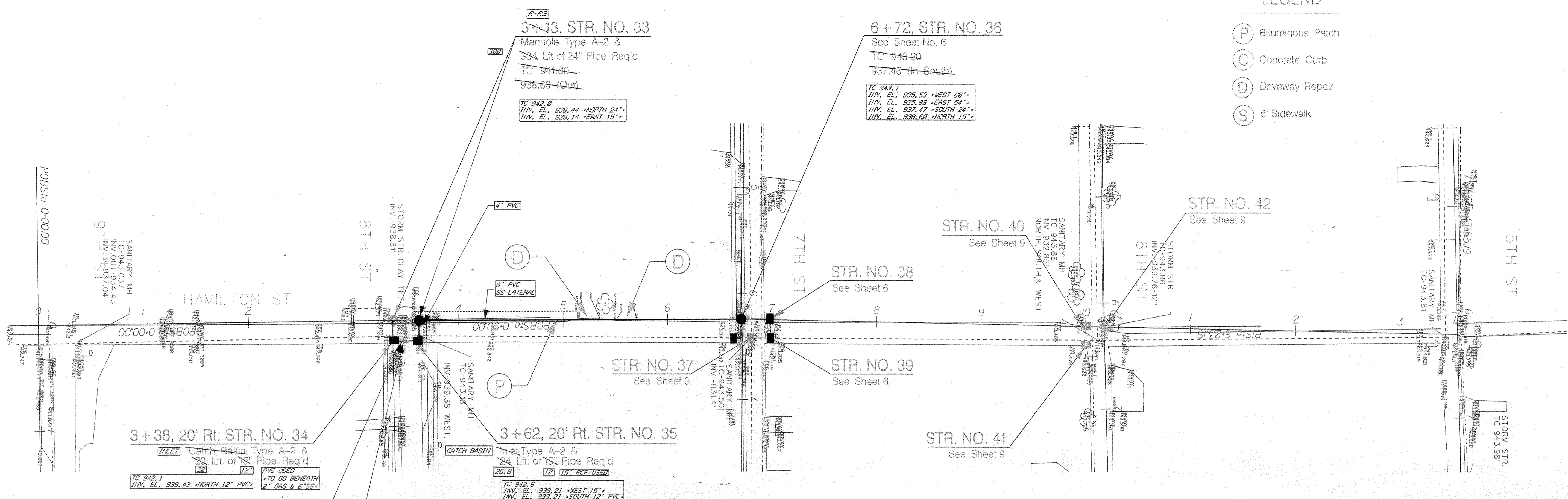
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9



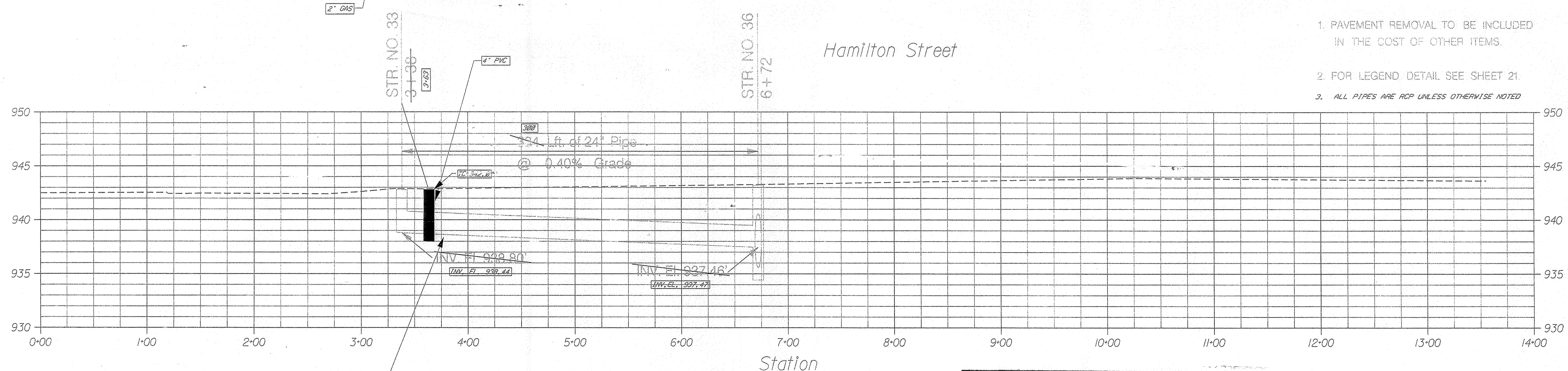
LEGEND

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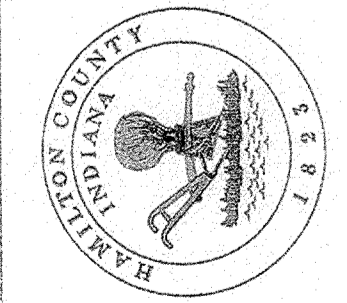
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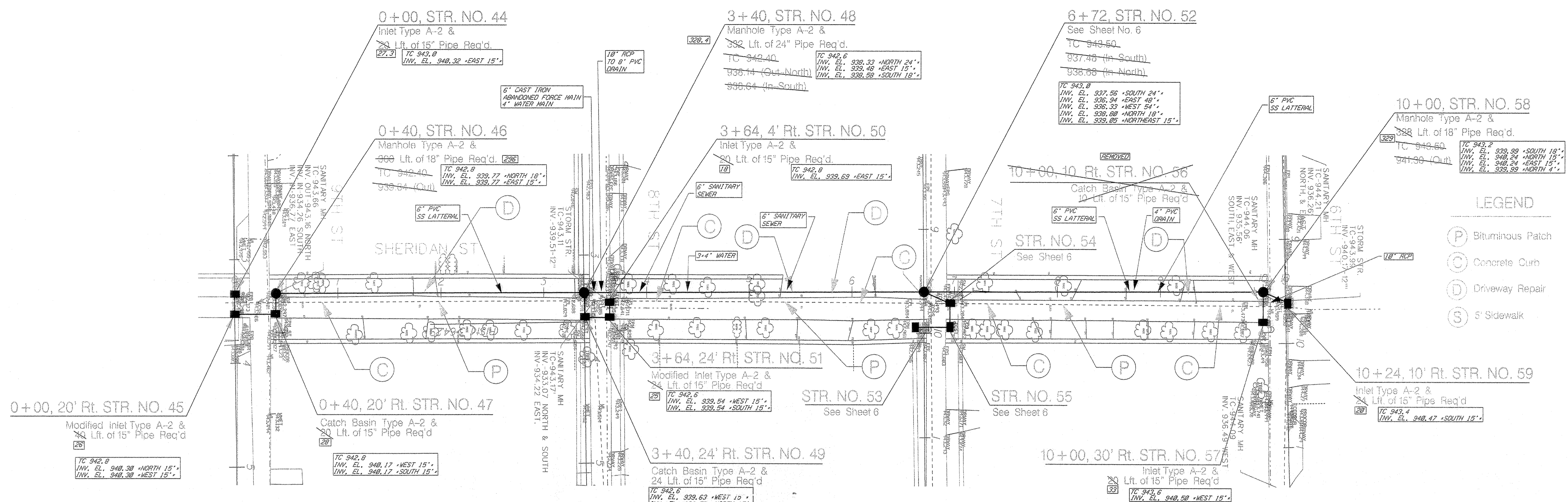
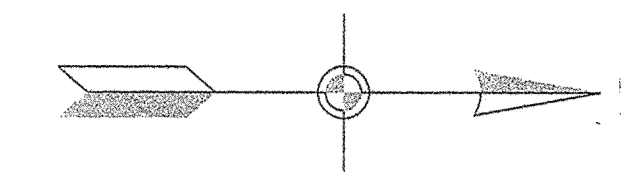
Project Name:
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EAST LEG OF THE THISTLEWATE
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10

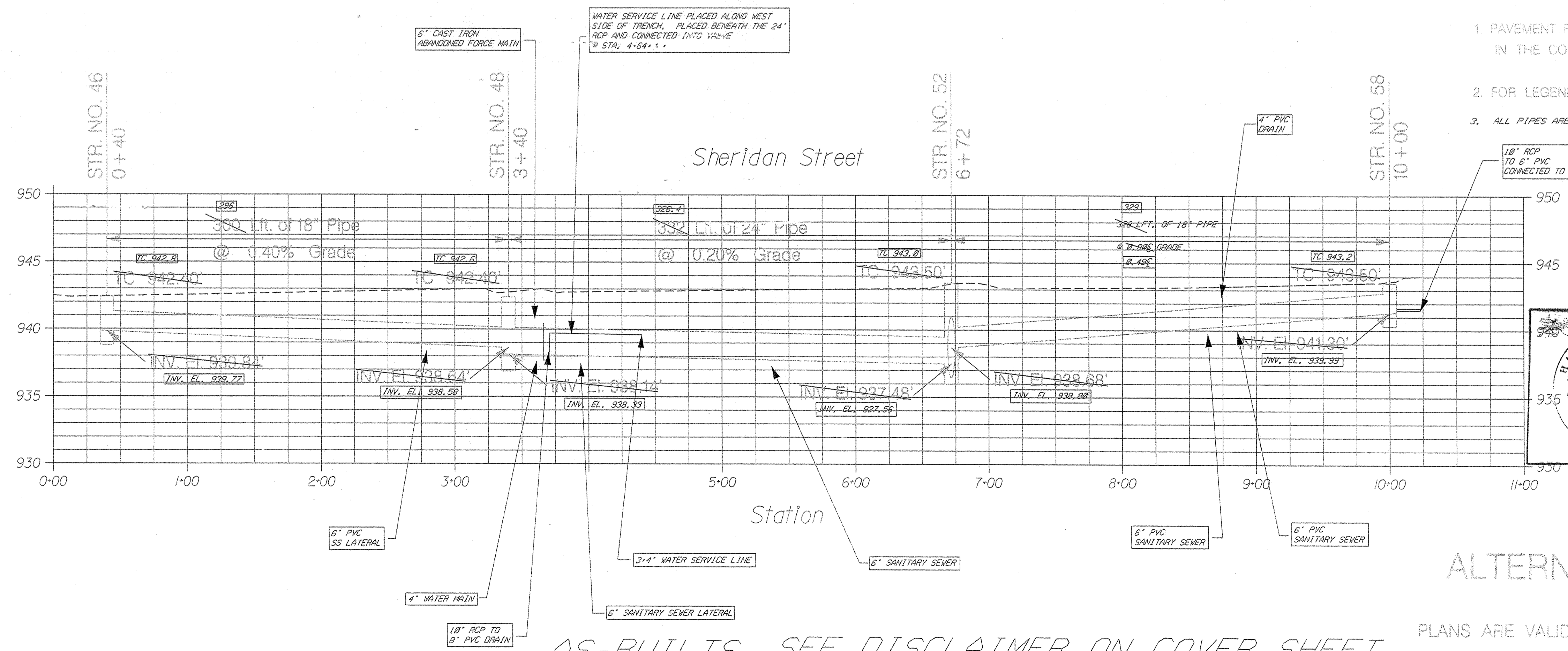


LEGEND

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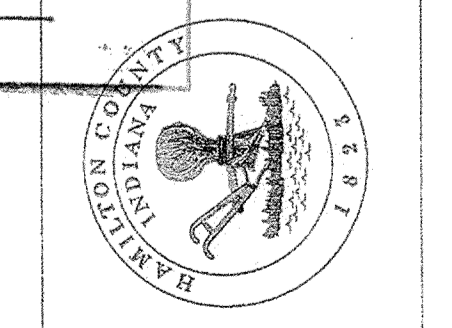
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Project Name:
AS-BUILTS FOR THE
EAST LEG DESIGN
THISTLEWAITE

EAST LEG OF THE THISTLEWAITE
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ALTERNATIVE TWO

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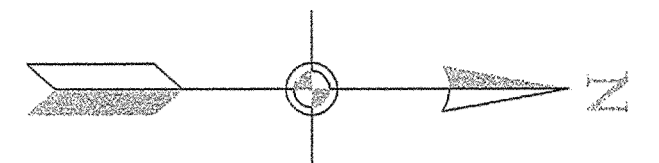
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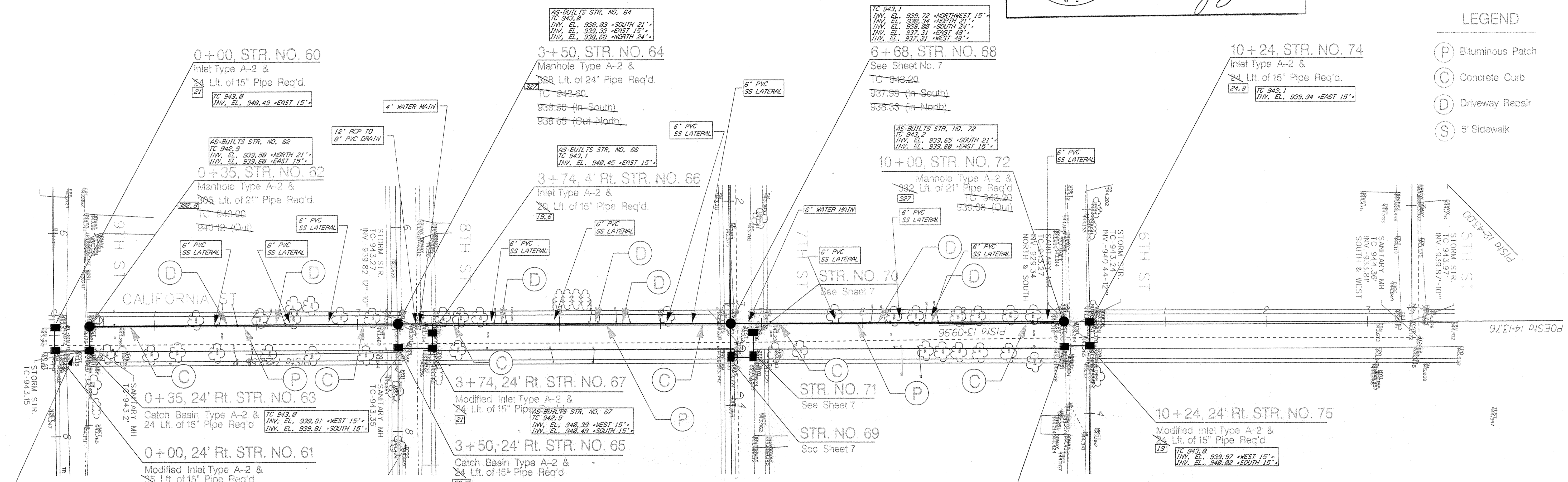
Entry Date: 7-9-04

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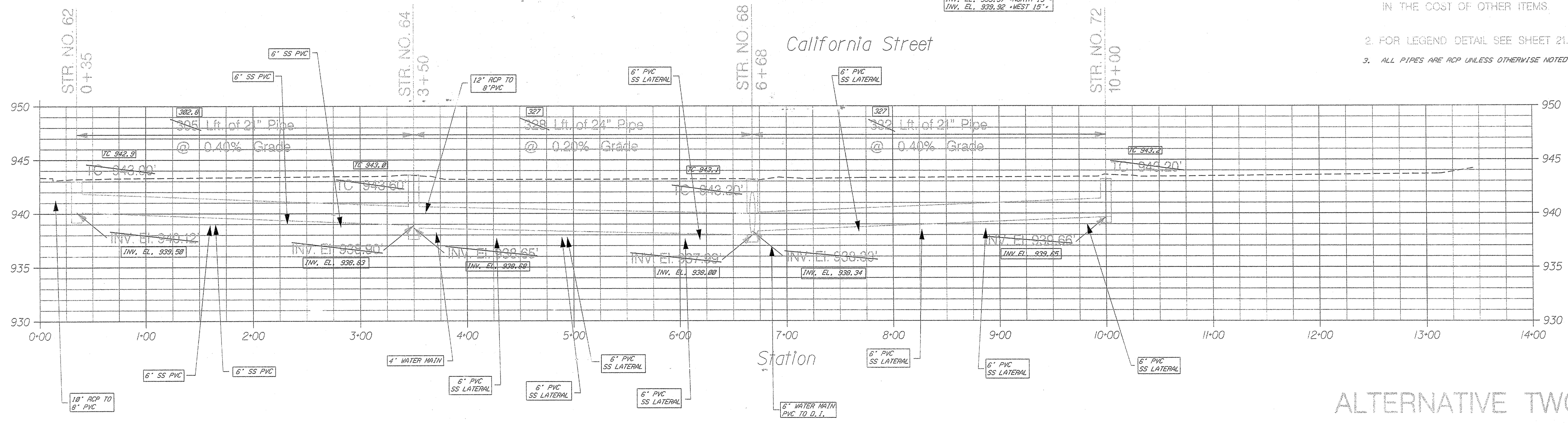
LEGEND

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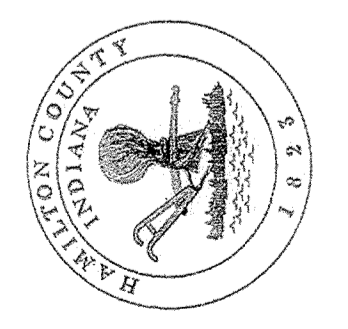
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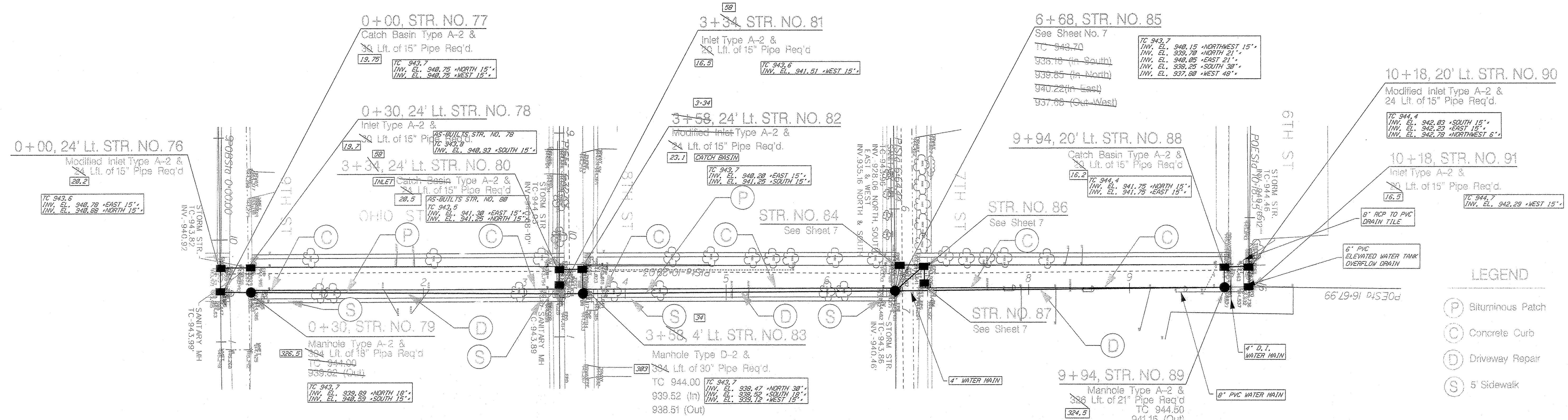
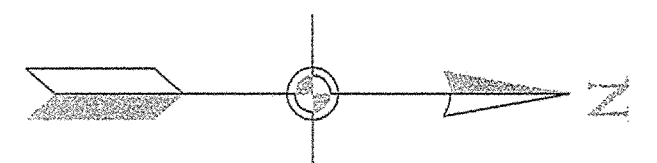
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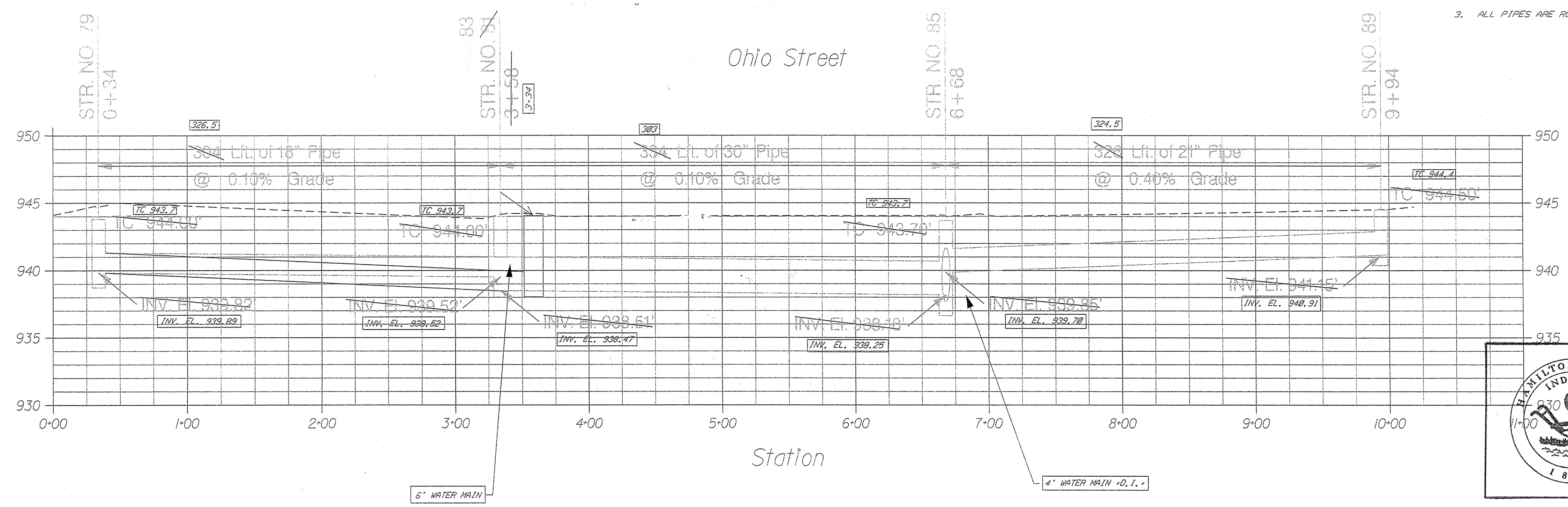
SHEET NO.
12



- LEGEND**
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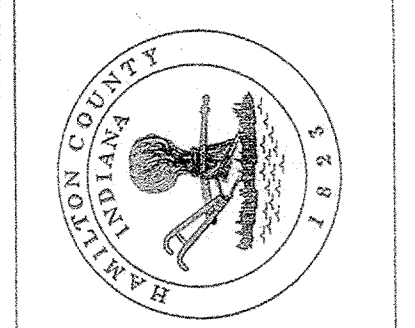
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THISTLEWAITE**

EAST LEG OF THE THISTLEWAITE
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SHEET NO.
13

STRUCTURE DATA TABLE

STRUCTURE NO.	LOCATION	PIPE SIZE	DESCRIPTION	LENGTH	FLOWLINE		TOP OF CASTING	PIPE END SECTION	REMARKS
					UP STREAM	DOWN STREAM			
					ELEV	ELEV			
	"STATE ROAD 47"								
7		15	CATCH BASIN TYPE E-7	20					"OMITTED"
8		15	CATCH BASIN TYPE E-7	20					"OMITTED"
9A		18	MANHOLE TYPE E-7		937.32	934.12	942.5 *WEST* 943.1 *EAST*		"ADDED" CONNECT TO STR. NO. 18
9		15	C.M. PIPE	50					"OMITTED"
18		72	MANHOLE TYPE F-2	86.5	934.12	934.83	948.3		CONCRETE PIPE ANCHOR REQ'D
19		72	MANHOLE TYPE E-2	80	934.05	939.97	942.00		CONCRETE PIPE ANCHOR REQ'D
	"MAINLINE"								
11	2+35	72	MANHOLE TYPE F-4	188.7	934.65	934.12	942.7		CONNECT TO STR. NO. 18
11	2+35	72	MANHOLE TYPE F-4	190	934.24	934.05	941.75		CONNECT TO STR. NO. 10
12	6+15, 30' LT.	72	MANHOLE TYPE F-4	364.5	934.48	934.65	942.5		CONNECT TO STR. NO. 11
12	6+15, 30' Lt.	72	MANHOLE TYPE F-4	380	934.62	934.24	941.50		CONNECT TO STR. NO. 11
13	9+95, 30' LT.	72	MANHOLE TYPE F-4	373	934.77	934.48	942.7		CONNECT TO STR. NO. 12
13	9+95, 30' Lt.	72	MANHOLE TYPE F-4	380	935.00	934.62	942.30		CONNECT TO STR. NO. 12
14	13+35, 30' LT.	54	MANHOLE TYPE E-4	335.5	935.33	934.77	943.9		CONNECT TO STR. NO. 13
14	13+35, 30' Lt.	54	MANHOLE TYPE E-4	340	935.43	935.09	943.30		CONNECT TO STR. NO. 13
15	16+52, 30' LT.	48	MANHOLE TYPE E-4	383.5	936.88	935.36	943.8		CONNECT TO STR. NO. 14
15	16+52, 30' Lt.	48	MANHOLE TYPE E-4	317	936.25	935.93	943.20		CONNECT TO STR. NO. 14
16	28+85	36	MANHOLE TYPE D-4	353	937.69	937.26	942.9		CONNECT TO STR. NO. 15
16	28+85	36	MANHOLE TYPE D-4	353	937.60	937.25	943.00		CONNECT TO STR. NO. 15
17	20+83		EXISTING INLET						DO NOT DISTURB
18	22+02		EXISTING INLET						DO NOT DISTURB
19	22+76		EXISTING INLET						CONNECT PIPE NORTHEAST
20	25+38	15	MANHOLE TYPE A-4	359	939.67	939.68	944.6		CONNECT TO STR. NO. 19
20	26+30	15	MANHOLE TYPE A-4	355	939.96	939.68	945.00		CONNECT TO STR. NO. 19
21	26+48, 53' RT.	15	MANHOLE TYPE A-4	19.5	939.91	939.67	945.8		CONNECT TO STR. NO. 20
21	26+48, 53' Rt.	15	MANHOLE TYPE A-4	56	940.16	939.96	945.35		CONNECT TO STR. NO. 20

STRUCTURE DATA TABLE

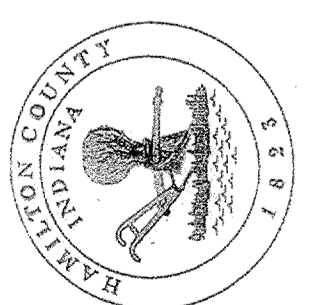
STRUCTURE NO.	LOCATION	PIPE SIZE	DESCRIPTION	LENGTH	FLOWLINE		TOP OF CASTING	PIPE END SECTION	REMARKS
					UP STREAM	DOWN STREAM			
					ELEV	ELEV			
22	27+47	15	CATCH BASIN TYPE A-8	188	948.26	939.91	945.4		CONNECT TO STR. NO. 21
22	27+47	15	CATCH BASIN TYPE A-8	140	940.56	940.16	945.68		CONNECT TO STR. NO. 21
23	27+71	15	INLET TYPE A-8	14	948.54	948.26	945.6		CONNECT TO STR. NO. 22
23	27+71	15	INLET TYPE A-8	24	948.64	948.56	945.97		CONNECT TO STR. NO. 22
	"4TH ST"								
24	2+93		EXISTING INLET						CONNECT TO STR. NO. 16
25	3+39		EXISTING INLET						DO NOT DISTURB
26	4+76		EXISTING INLET						DO NOT DISTURB
27	4+91		EXISTING INLET						DO NOT DISTURB
28	7+88		MANHOLE TYPE A-4		938.49		943.6		CONNECT PIPE SOUTHWEST
28	7+100		MANHOLE TYPE A-4		938.65		943.75		CONNECT PIPE SOUTHWEST
29	7+50		EXISTING INLET						REMOVE & PROVIDE CONC. PLUG
30	8+22, 183' RT.		CATCH BASIN TYPE A-4	161	938.79	938.49	943.7		CONNECT TO STR. NO. 28
30	8+22, 183' Rt.	16	CATCH BASIN TYPE A-4	160	938.97	938.65	944.00		CONNECT TO STR. NO. 28
31	9+17	18	CATCH BASIN TYPE E-7	159.2	939.15	939.79	944.1		CONNECT TO STR. NO. 30
31	9+17	18	CATCH BASIN TYPE E-7	146	939.24	938.97	944.24		CONNECT TO STR. NO. 30
32	11+92		EXISTING INLET						DO NOT DISTURB
	"HAMILTON ST"								
33	3+38	24	MANHOLE TYPE A-2	328	938.44	937.47	942.1		CONNECT TO STR. NO. 36
33	3+38	24	MANHOLE TYPE A-2	334	938.80	937.46	941.80		CONNECT TO STR. NO. 36
34	3+38, 28' RT.	15	INLET TYPE A-2	32	939.43	939.43	942.13		CONNECT TO STR. NO. 35
34	3+38, 20' Rt.	15	CATCH BASIN TYPE A-2	20	939.50	939.00	942.50		CONNECT TO STR. NO. 35
35	3+62, 28' RT.	15	CATCH BASIN TYPE A-2	25.6	939.21	938.44	942.6		CONNECT TO STR. NO. 33
35	3+62, 20' Rt.	15	INLET TYPE A-2	24	940.00	939.50	942.60		CONNECT TO STR. NO. 34
36	6+24, 7TH ST.	68	MANHOLE TYPE E-2	381.7	939.53	935.53	943.12		CONNECT TO STR. NO. 186
36	6+24(7th St)	68	MANHOLE TYPE E-2	314	935.65	935.34	943.20		CONNECT TO STR. NO. 186

AS-BUILTS SEE DISCLAIMER ON COVER SHEET

Project Name:
AS-BUILTS FOR THE
EAST LEG DESIGN
THISTLEWAITE

EAST LEG OF THE THISTLEWAITE
12-21-2000 Structure Data Tables Created
3-27-2002 Structure Data Tables Revised
PLOT DATE: 12-FEB-2003

HAMILTON COUNTY, INDIANA



Hamilton County Surveyor's Office
Hamilton County Government and
Judicial Center
One Hamilton County Square, Suite 146
Noblesville, IN 46060

SHEET NO.

14

STRUCTURE DATA TABLE

STRUCTURE NO.	LOCATION	PIPE SIZE	DESCRIPTION	LENGTH	FLOWLINE		TOP OF CASTING	PIPE END SECTION	REMARKS
					UP STREAM	DOWN STREAM			
					ELEV	ELEV			
37	6+48, 4' LT. +7TH ST.	15	INLET TYPE A-2	2.8	938.91	939.48	943.8		CONNECT TO STR. NO. 36
37	6+48, 4' Lt. (7th St)	15	INLET TYPE A-2	20	939.60	939.40	942.20		CONNECT TO STR. NO. 39
38	6+24, 24' LT. +7TH ST.	15	CATCH BASIN TYPE A-2	17.7	938.66	939.88	942.8		CONNECT TO STR. NO. 35
38	6+24, 24' Lt. (7th St)	15	CATCH BASIN TYPE A-2	24	939.20	939.00	942.50		CONNECT TO STR. NO. 36
39	6+48, 4' LT. +7TH ST.	15	MODIFIED INLET TYPE A-2	26.3	939.53	938.66	942.6		CONNECT TO STR. NO. 38
39	6+48, 24' Lt. (7th St)	15	MODIFIED INLET TYPE A-2	24	939.40	939.20	942.50		CONNECT TO STR. NO. 38
	NOT CONSTRUCTED		NOT CONSTRUCTED						NOT CONSTRUCTED
40	6+20, 20' Rt. (6th St)	15	CATCH BASIN TYPE A-2	20	940.20	939.80	943.50		CONNECT TO STR. NO. 42
	NOT CONSTRUCTED		NOT CONSTRUCTED						NOT CONSTRUCTED
41	6+40, 24' Rt. (6th St)	15	INLET TYPE A-2	20	940.60	940.20	943.50		CONNECT TO STR. NO. 40
	NOT CONSTRUCTED		NOT CONSTRUCTED						NOT CONSTRUCTED
42	6+20, (6th St)	24	MANHOLE TYPE A-2	325	939.20	937.90	943.70		CONNECT TO STR. NO. 101
	"SHERIDAN ST"								
44	0+00	15	INLET TYPE A-2	27.3	948.32	948.18	943.8		CONNECT TO STR. NO. 45
44	0+00	15	INLET TYPE A-2	20	940.20	940.10	942.50		CONNECT TO STR. NO. 45
45	0+00, 20' RT.	15	MODIFIED INLET TYPE A-2	26	948.38	948.17	942.8		CONNECT TO STR. NO. 47
45	0+00, 20' Rt.	15	MODIFIED INLET TYPE A-2	40	940.10	940.00	942.40		CONNECT TO STR. NO. 47
46	0+40	18	MANHOLE TYPE A-2	388	939.77	939.58	942.8		CONNECT TO STR. NO. 48
46	0+40	18	MANHOLE TYPE A-2	300	938.84	938.64	942.40		CONNECT TO STR. NO. 48
47	0+40, 20' RT.	15	CATCH BASIN TYPE A-2	28	948.17	939.87	942.8		CONNECT TO STR. NO. 46
47	0+40, 20' Rt.	15	CATCH BASIN TYPE A-2	20	940.00	939.90	942.50		CONNECT TO STR. NO. 46
48	3+48	24	MANHOLE TYPE A-2	328.4	938.33	937.56	942.6		CONNECT TO STR. NO. 52
48	3+40	24	MANHOLE TYPE A-2	332	938.64	938.14	942.40		CONNECT TO STR. NO. 52
49	3+40, 24' RT.	15	CATCH BASIN TYPE A-2	24	939.63	939.48	942.6		CONNECT TO STR. NO. 48
49	3+40, 24' Rt.	15	CATCH BASIN TYPE A-2	24	939.60	939.40	942.70		CONNECT TO STR. NO. 48
50	3+64, 4' RT.	15	INLET TYPE A-2	28	939.64	938.88	942.8		CONNECT TO STR. NO. 51
50	3+64, 4' Rt.	15	INLET TYPE A-2	20	940.00	938.80	942.50		CONNECT TO STR. NO. 51
51	3+64, 24' RT.	15	MODIFIED INLET TYPE A-2	25	939.54	939.63	942.6		CONNECT TO STR. NO. 49
51	3+64, 24' Rt.	15	MODIFIED INLET TYPE A-2	24	939.80	939.60	942.50		CONNECT TO STR. NO. 49
52	9+60 +7TH ST.	54	MANHOLE TYPE E-2	338.4	936.33	935.89	943.8		CONNECT TO STR. NO. 36
52	9+60 (7th St)	54	MANHOLE TYPE E-2	336	936.46	936.12	943.50		CONNECT TO STR. NO. 36
53	9+88, 4' LT. +7TH ST.	15	INLET TYPE A-2	2.1	939.39	N/A	942.8		BLIND TAPED INTO 54' RCP
53	9+88, 4' Lt. (7th St)	15	INLET TYPE A-2		940.50	940.20	943.00		CONNECT TO STR. NO. 55

STRUCTURE DATA TABLE

STRUCTURE NO.	LOCATION	PIPE SIZE	DESCRIPTION	LENGTH	FLOWLINE		TOP OF CASTING	PIPE END SECTION	REMARKS
					UP STREAM	DOWN STREAM			
					ELEV	ELEV			
54	9+68, 24' LT. +7TH ST.	15	CATCH BASIN TYPE A-2	24	939.65	939.85	942.9		CONNECT TO STR. NO. 52
54	9+68, 24' Lt. (7th St)	15	CATCH BASIN TYPE A-2	25	939.90	939.60	942.70		CONNECT TO STR. NO. 52
55	9+88, 24' LT. +7TH ST.	15	MODIFIED INLET TYPE A-2	23.8	941.88	939.78	942.6		CONNECT TO STR. NO. 54
55	9+88, 24' Lt. (7th St)	15	MODIFIED INLET TYPE A-2	20	940.20	939.90	942.70		CONNECT TO STR. NO. 54
OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED		OMITTED
56	10+00, 10' Rt.	15	CATCH BASIN TYPE A-2	10	941.40	941.30	943.50		CONNECT TO STR. NO. 58
57	18+00, 30' RT.	15	INLET TYPE A-2	33	948.58	948.24	943.6		CONNECT TO STR. NO. 58
57	10+00, 30' Rt.	15	INLET TYPE A-2	20	941.50	941.40	943.60		CONNECT TO STR. NO. 56
58	18+00	18	MANHOLE TYPE A-2	329	939.99	939.8	943.2		CONNECT TO STR. NO. 52
58	10+00	18	MANHOLE TYPE A-2	328	941.30	938.68	943.50		CONNECT TO STR. NO. 52
59	18+24, 18' RT.	15	INLET TYPE A-2	28	948.47	948.24	943.4		CONNECT TO STR. NO. 58
59	10+24, 10' Rt.	15	INLET TYPE A-2	24	941.50	941.40	944.00		CONNECT TO STR. NO. 56
	"CALIFORNIA ST"								
60	0+00	15	INLET TYPE A-2	21	948.49	948.28	943.8		CONNECT TO STR. NO. 61
60	0+00	15	INLET TYPE A-2	24	940.50	940.40	943.26		CONNECT TO STR. NO. 61
61	0+00, 24' RT.	15	MODIFIED INLET TYPE A-2	28	948.28	939.81	943.8		CONNECT TO STR. NO. 63
61	0+00, 24' Rt.	15	MODIFIED INLET TYPE A-2	35	940.40	940.30	943.00		CONNECT TO STR. NO. 63
62	0+35	21	MANHOLE TYPE A-2	382.8	939.5	938.83	942.9		CONNECT TO STR. NO. 64
62	0+35	21	MANHOLE TYPE A-2	305	940.12	938.90	943.00		CONNECT TO STR. NO. 64
63	0+35, 24' RT.	15	CATCH BASIN TYPE A-2	24	939.81	939.68	943.8		CONNECT TO STR. NO. 62
63	0+35, 24' Rt.	15	CATCH BASIN TYPE A-2	24	940.30	940.20	943.00		CONNECT TO STR. NO. 62
64	3+58	24	MANHOLE TYPE A-2	327	938.68	938.88	943.8		CONNECT TO STR. NO. 68
64	3+50	24	MANHOLE TYPE A-2	328	938.65	937.99	943.60		CONNECT TO STR. NO. 68
65	3+58, 24' RT.	15	CATCH BASIN TYPE A-2	22.5	939.62	939.33	943.1		CONNECT TO STR. NO. 64
65	3+50, 24' Rt.	15	CATCH BASIN TYPE A-2	24	939.70	939.30	943.30		CONNECT TO STR. NO. 64
66	3+74, 4' RT.	15	INLET TYPE A-2	19.6	948.45	948.43	943.1		CONNECT TO STR. NO. 67
66	3+74, 4' Rt.	15	INLET TYPE A-2	20	940.50	940.40	943.00		CONNECT TO STR. NO. 67
67	3+74, 24' RT.	15	MODIFIED INLET TYPE A-2	21	948.39	939.82	942.9		CONNECT TO STR. NO. 65
67	3+74, 24' Rt.	15	MODIFIED INLET TYPE A-2	24	940.10	939.70	943.00		CONNECT TO STR. NO. 65
68	13+28 +7TH ST.	48	MANHOLE TYPE E-2	358	937.31	936.94	943.1		CONNECT TO STR. NO. 52
68	13+20 (7th St)	48	MANHOLE TYPE E-2	360	937.32	936.96	943.20		CONNECT TO STR. NO. 52
69	13+48, 4' LT. +7TH ST.	15	INLET TYPE A-2	18.5	948.3	948.85	943.2		CONNECT TO STR. NO. 71
69	13+48, 4' Lt. (7th St)	15	CATCH BASIN TYPE A-2	24	940.20	939.95	943.00		CONNECT TO STR. NO. 68

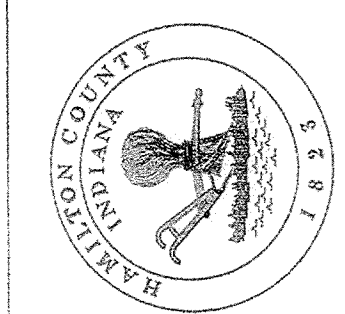
NOTE: STRUCTURE NUMBER 43 NOT UTILIZED

AS-BUILTS SEE DISCLAIMER ON COVER SHEET

Project Name:
AS-BUILTS FOR THE
EAST LEG DESIGN
THISTLEWAITE

EAST LEG OF THE THISTLEWAITE
12-21-2000 Structure Data Tables Created
3-27-2002 Structure Data Tables Revised
PLOT DATE: 12-FEB-2003

HAMILTON COUNTY, INDIANA
Hamilton County Surveyor's Office
Hamilton County Government and
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One Hamilton County Square, Suite 146
Noblesville, IN 46060



SHEET NO.

15

STRUCTURE DATA TABLE

STRUCTURE NO.	LOCATION	PIPE SIZE	DESCRIPTION	LENGTH	FLOWLINE		TOP OF CASTING	PIPE END SECTION	REMARKS
					UP STREAM	DOWN STREAM			
					ELEV	ELEV			
70	13+24, 24' LT. +7TH ST	15	INLET TYPE A-2	23	948.19	948.85	943.2		CONNECT TO STR. NO. 71
70	13+24, 24' Lt. (7th St)	15	INLET TYPE A-2	24	940.70	940.45	943.20		CONNECT TO STR. NO. 71
71	13+48, 24' LT. +7TH ST	15	CATCH BASIN TYPE A-2	33.3	948.85	939.72	943.2		CONNECT TO STR. NO. 69
71	13+48, 24' Lt. (7th St)	15	MODIFIED INLET TYPE A-2	20	940.45	940.20	943.20		CONNECT TO STR. NO. 69
72	18+00	21	MANHOLE TYPE A-2	327	939.65	938.34	943.2		CONNECT TO STR. NO. 68
72	10+00	21	MANHOLE TYPE A-2	332	939.66	938.33	943.20		CONNECT TO STR. NO. 68
73	18+00, 24' RT.	15	CATCH BASIN TYPE A-2	28.7	939.92	939.8	943.1		CONNECT TO STR. NO. 72
73	10+00, 24' Rt.	15	CATCH BASIN TYPE A-2	24	939.90	939.70	943.20		CONNECT TO STR. NO. 72
74	18+24	15	INLET TYPE A-2	24.8	939.94	948.82	943.1		CONNECT TO STR. NO. 75
74	10+24	15	INLET TYPE A-2	24	940.90	940.10	943.20		CONNECT TO STR. NO. 75
75	18+24, 24' RT.	15	MODIFIED INLET TYPE A-2	19	939.97	939.97	943.8		CONNECT TO STR. NO. 73
75	10+24, 24' Rt.	15	MODIFIED INLET TYPE A-2	24	940.10	939.90	943.20		CONNECT TO STR. NO. 73
	"OHIO ST"								
76	8+00, 24' LT.	15	MODIFIED INLET TYPE A-2	28.2	948.78	948.75	943.6		CONNECT TO STR. NO. 77
76	0+00, 24' Lt.	15	MODIFIED INLET TYPE A-2	24	941.10	940.70	943.80		CONNECT TO STR. NO. 77
77	8+00	15	CATCH BASIN TYPE A-2	28	948.75	948.59	943.7		CONNECT TO STR. NO. 79
77	0+00	15	CATCH BASIN TYPE A-2	30	940.70	940.30	943.86		CONNECT TO STR. NO. 79
78	8+38, 24' LT.	15	INLET TYPE A-2	28	948.93	948.88	943.8		CONNECT TO STR. NO. 76
78	0+30, 24' Lt.	15	INLET TYPE A-2	30	941.50	941.10	944.00		CONNECT TO STR. NO. 76
79	8+38	18	MANHOLE TYPE A-2	327	939.89	938.52	943.7		CONNECT TO STR. NO. 83
79	0+30	18	MANHOLE TYPE A-2	304	939.82	939.52	944.00		CONNECT TO STR. NO. 81
80	3+34, 24' LT.	15	INLET TYPE A-2	28	941.25	941.25	943.7		CONNECT TO STR. NO. 82
80	3+34, 24' Lt.	15	CATCH BASIN TYPE A-2	24	940.00	939.80	944.00		CONNECT TO STR. NO. 81
81	3+34	38	INLET TYPE A-2	17	941.51	941.38	943.6		CONNECT TO STR. NO. 88
81	3+34	38	MANHOLE TYPE D-2	334	938.51	938.10	944.00		CONNECT TO STR. NO. 85
82	3+58, 24' LT.	15	CATCH BASIN TYPE A-2	23	948.28	939.12	943.5		CONNECT TO STR. NO. 83
82	3+58, 24' Lt.	15	MODIFIED INLET TYPE A-2	24	940.40	940.00	943.80		CONNECT TO STR. NO. 80
83	3+58, 4' LT.	15	MANHOLE TYPE D-2	383	938.47	938.25	943.7		CONNECT TO STR. NO. 85
83	3+58, 4' Lt.	15	INLET TYPE A-2	20	940.80	940.40	943.60		CONNECT TO STR. NO. 82
84	16+60, 4' LT. +7TH ST	15	INLET TYPE A-2	18	948.68	948.53	943.8		CONNECT TO STR. NO. 86
84	16+60, 4' Lt. (7th St)	15	CATCH BASIN TYPE A-2	20	940.60	940.35	943.70		CONNECT TO STR. NO. 85
85	16+88 +7TH ST	48	MANHOLE TYPE E-2	355	937.8	937.31	943.7		CONNECT TO STR. NO. 69
85	16+80 (7th St)	48	MANHOLE TYPE E-2	360	937.68	937.32	943.70		CONNECT TO STR. NO. 69

STRUCTURE DATA TABLE

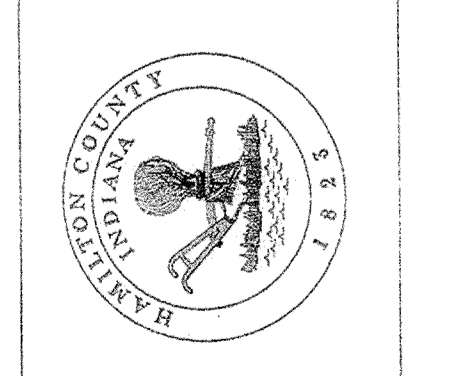
STRUCTURE NO.	LOCATION	PIPE SIZE	DESCRIPTION	LENGTH	FLOWLINE		TOP OF CASTING	PIPE END SECTION	REMARKS
					UP STREAM	DOWN STREAM			
					ELEV	ELEV			
86	16+60, 24' LT. +7TH ST	15	CATCH BASIN TYPE A-2	27	948.57	948.15	943.7		CONNECT TO STR. NO. 85
86	16+60, 24' Lt. (7th St)	15	MODIFIED INLET TYPE A-2	20	940.85	940.60	943.80		CONNECT TO STR. NO. 84
87	16+76, 24' LT. +7TH ST	15	INLET TYPE A-2	17	948.64	948.57	943.9		CONNECT TO STR. NO. 86
87	16+76, 24' Lt. (7th St)	15	INLET TYPE A-2	16	941.10	940.85	943.60		CONNECT TO STR. NO. 86
88	9+94, 20' LT.	15	CATCH BASIN TYPE A-2	16	941.75	941.85	944.4		CONNECT TO STR. NO. 89
88	9+94, 20' Lt.	15	CATCH BASIN TYPE A-2	20	941.50	941.25	944.50		CONNECT TO STR. NO. 89
89	9+94	21	MANHOLE TYPE A-2	325	948.91	939.7	944.4		CONNECT TO STR. NO. 85
89	9+94	21	MANHOLE TYPE A-2	326	941.15	939.85	944.50		CONNECT TO STR. NO. 85
90	18+18, 20' LT.	15	MODIFIED INLET TYPE A-2	24	942.83	941.75	944.4		CONNECT TO STR. NO. 88
90	10+18, 20' Lt.	15	MODIFIED INLET TYPE A-2	24	941.75	941.50	944.50		CONNECT TO STR. NO. 88
91	18+18	15	INLET TYPE A-2	17	942.29	942.23	944.7		CONNECT TO STR. NO. 98
91	10+18	15	INLET TYPE A-2	20	942.00	941.75	944.50		CONNECT TO STR. NO. 90
	"5TH ST"		NOT CONSTRUCTED						
92	0+00, 10' Lt.	15	INLET TYPE A-2	20	940.50	940.00	943.00		CONNECT TO STR. NO. 93
93	0+00, 10' Rt.	15	CATCH BASIN TYPE A-2	30	940.00	939.50	943.00		CONNECT TO STR. NO. 15
94	3+80, 5' Lt.	15	INLET TYPE A-2	20	940.00	939.50	943.00		CONNECT TO STR. NO. 95
95	3+80, 15' Rt.	15	CATCH BASIN TYPE A-2	5	939.50	939.00	943.00		CONNECT TO STR. NO. 96
96	3+80, 20' Rt.	24	MANHOLE TYPE A-4	410	938.34	936.70	943.00		CONNECT TO STR. NO. 15
97	7+50, 5' Lt.	15	INLET TYPE A-2	18	941.50	941.00	944.00		CONNECT TO STR. NO. 98
98	7+50, 13' Rt.	15	CATCH BASIN TYPE A-2	10	941.00	940.50	944.00		CONNECT TO STR. NO. 99
99	7+50, 23' Rt.	24	MANHOLE TYPE A-4	370	939.82	938.34	944.00		CONNECT TO STR. NO. 96
100	7+78	15	EXISTING INLET	36	939.98	939.82	943.98		CONNECT TO STR. NO. 99

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Project Name:
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EAST LEG DESIGN
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EAST LEG OF THE THISTLEWAITE
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HAMILTON COUNTY, INDIANA
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SHEET NO.
16

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