

Drain: TOWNE LAKE DRAIN **Drain #:** 231
Improvement/Arm: ANNALLY DOWNS - SECTION 1
Operator: JOH **Date:** 8-3-04
Drain Classification: Urban/Rural **Year Installed:** 1992

GIS Drain Input Checklist

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

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

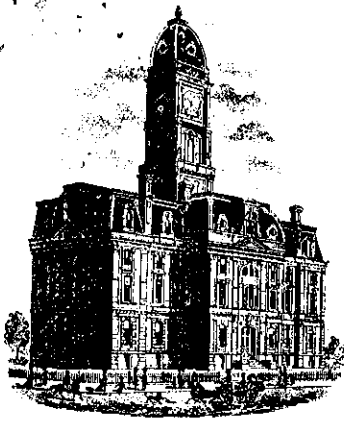
Drain-Improvement: TOWNE LAKE DRAIN - ANNUALLY OWNED - SECTION 2

Drain Type:	Size:	Length <i>SURVEYORS REPORT</i>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
RCP	12"	40'	40'	Ø		
CONCRETE TILE	10"	431'	431'	Ø		
	12"	425	425'	Ø		
	15"	599	599'	Ø		
CMP	12"	160'	154'	-6'		

Sum: 1655' 1649 -6'

Final Report: _____

Comments:
SUR AND DB DISAGREE ON 12" CMP LENGTHS



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

One Hamilton County Square, Ste. 146

776-9626 776-8495

942 Maple Avenue

Noblesville, Indiana 46060 August 3, 1992

TO: Hamilton County Drainage Board

RE: Annually Downs Arm, Towne Lakes Drain

Attached is an petition for an arm to the Towne Lakes Drain submitted by the Hamilton County Board of Commissioners. Included with the petition is a plan and assessment roll for the construction of the arm.

The proposal is the installation of a new tile arm running East from the Northwest corner of Lot 52 to the Northwest corner of Lot 10; thence South to the Southwest corner of Lot 10; thence running East, South of the South line of Lot 10 and the North line of Lot 20 of Town Lakes to an existing storm inlet at the Northwest corner of Lot 19 of Towne Lakes.

The cost estimate of the project is as follows:

1320	L.F. 10" & 12" Butt Joint Pipe	\$ 19.00/ft	\$25,080.00
70	L.F. Reinforced Concrete w/ Granular Backfill & Pavement	35.00/ft	2,450.00
210	L/F/ CMP w/Granular Backfill and Pavement	30.00/ft	6,300.00

1600

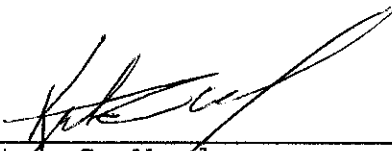
7 Storm Sewer Structures	1,000.00/ea	7,000.00
	SUBTOTAL	<u>\$40,830.00</u>
	Contingency	4,830.00
	Engineering & Legal	10,000.00
	Easements	5,000.00
	TOTAL	<u>\$59,913.00</u>

Number of Lots 49.....

I have reviewed the tracts and believe that these tract within the drainage shed will benefit equally.

The drainage shed for this drain consists of 49 Lots comprising approximately 27.021 acres and 14 acres of Highway. The assessment is on an acreage basis where each acre is assessed at a rate of \$1461.00. The typical lot cost will be \$774.00 and the Highway Department assessed at \$20,454.00. I recommend the lots be assessed for the Fitch and Jessup Drain at a rate of \$3.00 per lot and the Towne Lake Drain at a rate of \$30.00 per lot annually for maintenance.

I recommend a hearing be set for September 1992.



 Kenton C. Ward
 Hamilton County Surveyor
 KCW/no



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

October 19, 1992

TO: Hamilton County Drainage Board

RE: Towne Lakes Drain, Annally Downs Arm

Attached are revised plans for the Annally Downs Arm to the Towne Lakes Drain as prepared by Samuel L. Moore and Associates, Inc. These plans reflect the following changes (see sheets 6 & 7):

1. Fergus Ave., which is platted right of way, not being constructed south of Annally Drive.
2. Lot 20 of Towne Lakes with a 30' drainage easement instead of the platted 15' easement. The Waste District will be purchasing the additional easement as part of the sewer project.
3. Project now consists of the following :

Exist Str. in Towne Lake to Str. 15A	390'	15" Conc. Tile
Str. 15A to Str. 15	195'	15" Conc. Tile
Str. 15 to Str. 33	40'	12" RCP
Str. 33 to Str. 25	420'	12" Conc. Tile
Str. 25 to Str. 21	433'	10" Conc. Tile
Str. 32	30'	12" RCP
Str. 26	38'	12" RCP
Str. 1	47'	12" RCP
Pipe Inlets-Str. 22,23,24,27 and 28		
Precast Inlets-Str. 21,25,33,15 and 15A		

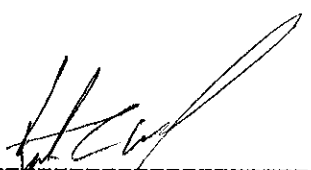
Totals

Pipe Inlets	5
Precast Inlets	5
12" RCP	155 feet
10" Concrete Tile	433 feet
12" Concrete Tile	420 feet
15" Concrete Tile	585 feet
	1593 feet

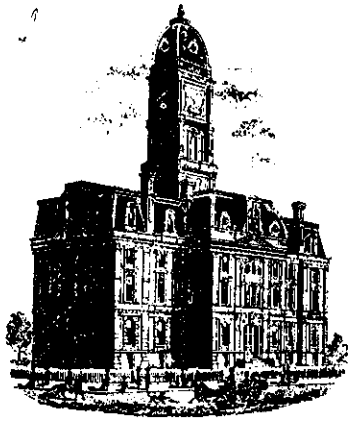
At the Hearing on the 21st of September various questions were brought up. These questions are addressed as follows:

1. Drainage Shed- upon viewing the drainage shed as outlined by Samuel Moore and Associates I believe that the limits should remain as outlined.
2. Damages- upon review of the proposed plan and the area I believe that damages will not result to any property in this project area as a result of the installation of the regulated drainage improvements. The cost of dual easements is being borne by the Waste District. Therefore, damages for all tracts involved should be set at \$0.00.
3. Ground Water-the installation of the Sanitary Sewer may lower the ground water along the Streets. However, the granular ~~and~~ ^{fill} material will not solve all the ground water problems, nor will it adversely affect local wells. The drainage system proposed will provide an outlet for both surface and subsurface drainage. If problems arise in the future north of Annally Drive the proposed improvement will serve as an outlet for any future improvement in that area.

The Board should consider this a revision to portions of my report of August 3, 1992.



Kenton C. Ward,
Hamilton County Surveyor



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

January 13, 1994

To: Hamilton County Drainage Board
 Re: Towne Lake Drain, Annally Downs Arm, Final Report

Attached are the asbuilts, and other information for the Annally Downs Arm drainage project. An inspection of the drainage facilities for this project has been made and the facilities were found to be complete & acceptable. This project was done through an interlocal cooperation agreement between the Drainage Board, Highway and Clay Regional Waste District.

During construction, changes were made to the drain which alter the plans submitted with my original & revised reports to the Board dated August 3, 1992 and October 19, 1992 respectively. The changes are as follows:

	<u>Material</u>	<u>Proposed</u>	<u>Actual</u>
✓ Existing Str. in Towne Lake to Str. 15A	15" Conc. Tile	390'	401'
✓ Str. 15A to Str. 15	15" Conc. Tile	195'	198'
✓ Str. 15 to Str. 33	12" RCP	40'	40'
✓ Str. 33 to Str. 25	12" Conc. Tile	420'	425'
✓ Str. 25 to Str. 21	10" Conc. Tile	433'	431'
Structure 1, 26 and 32 were proposed to be RCP in my report. CMP was installed during the project in lieu of the RCP.	Str. 1, 26 & 32	RCP	CMP
✓ Str. 32 (Does not connect to Str. 33)		30'	30'
✓ Str. 26		38'	38'
✓ Str. 1		47'	46'
✓ 12" CMP under Connaught was discovered during project. Pipe extended to Str. 21.			46'

The following are the new totals for the Annally Downs storm sewer arm per the project asbuilts dated December 28, 1993.

Pipe Inlets (Str. 22,23,24,27&28)	5
Precast Inlets (Str. 21,25,33,15&15A)	5
	10 Structures
✓ 12" CMP	160 L.F.
✓ 12" RCP	40 L.F.
✓ 10" Conc. tile	431 L.F.
✓ 12" Conc. tile	425 L.F.
✓ 15" Conc. tile	599 L.F.
	1655 L.F.

Structures 1, 26 & 32 under Annally Drive and CMP under Connaught are to be part of the new pipe and manhole system of the Hamilton County Sewerage Office, One Hamilton County Square, Noblesville, In 46060

The easements on the Annally Downs Arm are as follows:

Fifteen (15') feet per half along the entire length of the drain with the exception of Lot 20 in Towne Lake where the easement is thirty (30') feet instead of the platted fifteen (15') feet.

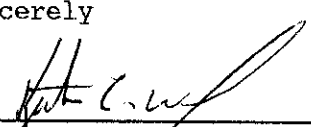
The original cost of the project was \$60,660.00. The following is a break down of the original cost estimate:

Construction Cost	\$40,830.00
10% Contingency	4,830.00
Engineering - Legal	10,000.00
Easements	<u>5,000.00</u>
	\$60,660.00

The amount certified to the Auditor on October 19, 1992 was \$59,913.00. The final construction cost of the project was \$36,769.00 under terms of Interlocal Cooperation Agreement dated March 8, 1993 (See claim 93-254).

I recommend the Board approve the drains construction as complete and acceptable.

Sincerely



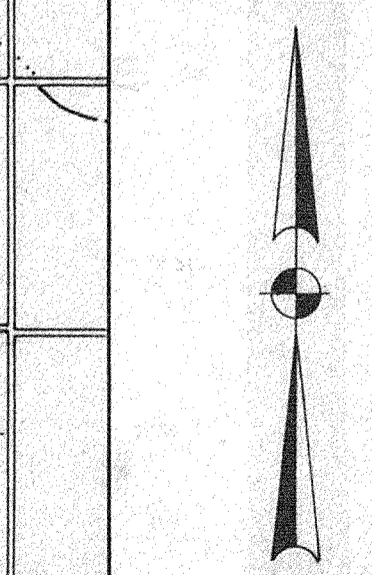
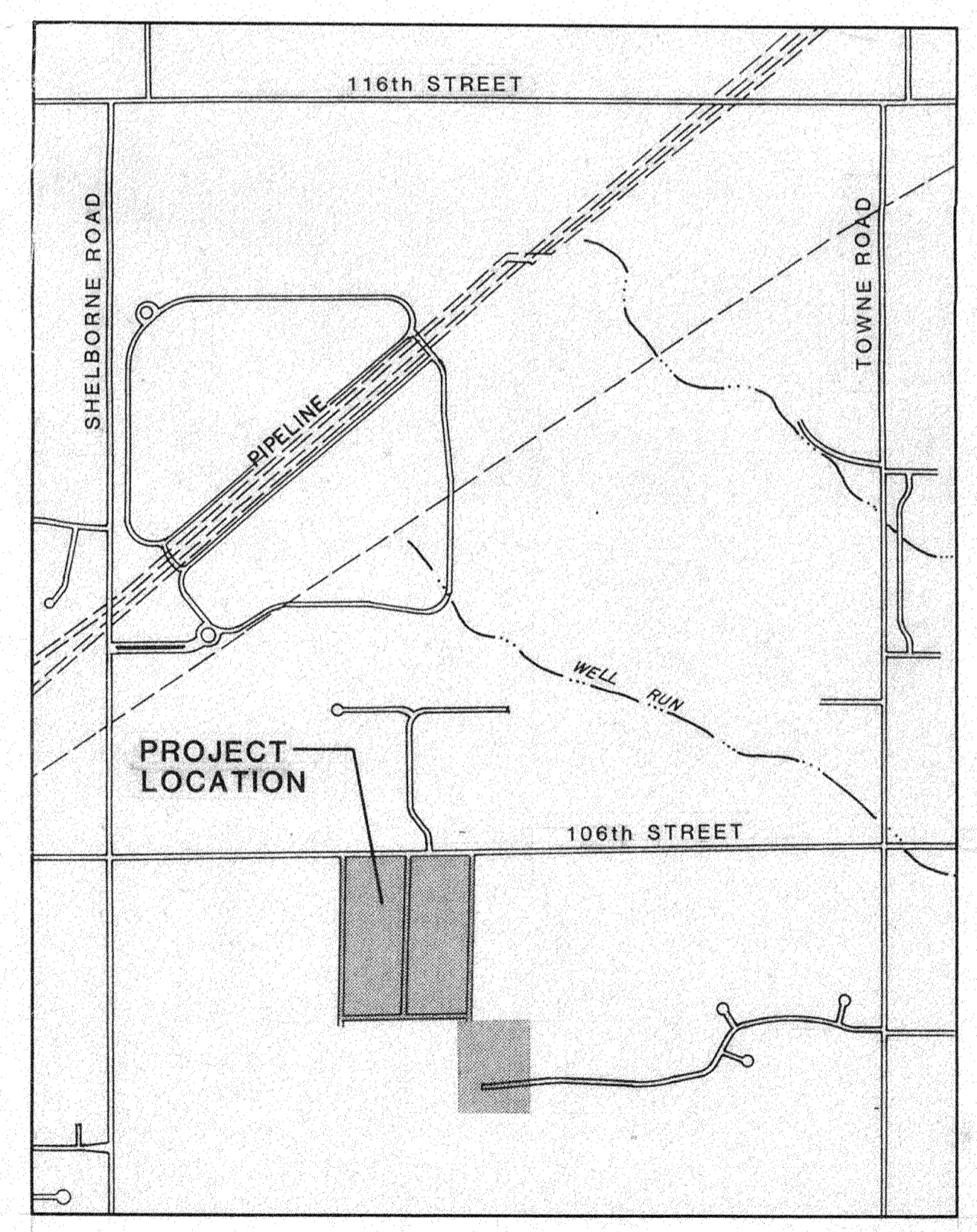
Kenton C. Ward,
Hamilton County Surveyor

KCW/jh

CONSTRUCTION PLANS FOR ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS

HAMILTON COUNTY INDIANA
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: 8-3-94
Entered by: JDH

PREPARED FOR THE
**CLAY TOWNSHIP REGIONAL
WASTE DISTRICT**



HAMILTON CO., INDIANA
LOCATION MAP
SCALE 1" : 1000'
RECORD DRAWINGS
DECEMBER 5, 1993

BOARD OF TRUSTEES

<u>Robert M. Book</u> ROBERT BOOK	PRESIDENT	<u>Robert Steinhart</u> ROBERT STEINHART	MEMBER
<u>Max Moore</u> MAX MOORE	VICE PRESIDENT	<u>Max Turley</u> MAX TURLEY	MEMBER
<u>Myrneeth Anderson</u> MYRNEETH ANDERSON	SECRETARY	<u>Jack Edwards</u> JACK EDWARDS	MEMBER
<u>Meredith Carter</u> MEREDITH CARTER	ASSISTANT SECRETARY	<u>John Schneider</u> JOHN SCHNEIDER	MEMBER
<u>Richard Helmuth</u> RICHARD HELMUTH	TREASURER	<u>Robert Campbell</u> ROBERT CAMPBELL	ATTORNEY
<u>Marvin Pike</u> MARVIN PIKE		MANAGER	

INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL INFORMATION
3-5	SANITARY SEWER PLAN AND PROFILE
6-8	DRAINAGE IMPROVEMENTS PLAN AND PROFILE
10	STANDARD DETAILS
11	STRUCTURE DATA
12-20	CROSS SECTIONS

* PLANS THINNED 1/6/94 BY SURVEYORS OFFICE.
PAGES 3-5, 9 AND 12-20 DISCARDED.
J. LISTON

SYMBOL	REVISIONS	BY	DATE	APPROVED

DESIGNER J. THOMPSON
DRAFTING J. THOMPSON
PROJ. ENGR. R. LAURITSEN
PROJ. MGR. S. L. MOORE
DATE Oct 9, 1992

SAMUEL L. MOORE & ASSOCIATES, INC.
Consulting Engineers
6363 HOLLISTER DRIVE
SPEEDWAY, INDIANA 46224

JOB NO. 1274
DATE OCT. 1992

CERTIFIED BY:
Samuel L. Moore
SAMUEL L. MOORE P.E.
DATE October 17, 1992

SHEET NO. **1**
OF 26

FILED

DEC 28 1993
OFFICE OF HAMILTON COUNTY SURVEYOR

UTILITY INFORMATION

INDIANA GAS COMPANY
1630 NORTH MERIDIAN
INDIANAPOLIS, INDIANA 46202-1496
(317)926-3351
SCOTT ALBERTSON

INDIANAPOLIS WATER COMPANY
P.O. BOX 1220
INDIANAPOLIS, INDIANA 46206
(317)263-6446
STAN GRAVES

INDIANA BELL TELEPHONE COMPANY
220 NORTH MERIDIAN STREET
INDIANAPOLIS, INDIANA 46220
(317)252-4275
JANE MESSENGER

PUBLIC SERVICE INDIANA
P.O. BOX 876
CARMEL, INDIANA 46032
(317)581-3028
LEE WILLIAMS

INDIANAPOLIS POWER AND LIGHT
1230 WEST MORRIS P.O. BOX 1595
INDIANAPOLIS, INDIANA 46206-1595
(317)261-8005
CHUCK ENGLERT

JONES INTERCABLE
516 EAST CARMEL DRIVE
CARMEL, INDIANA 46032
(317)844-8877

HAMILTON COUNTY SURVEYOR
ONE HAMILTON CO. SQUARE
SUITE 146
NOBLESVILLE, INDIANA 46060-2230
(317)776-8495
KENT WARD

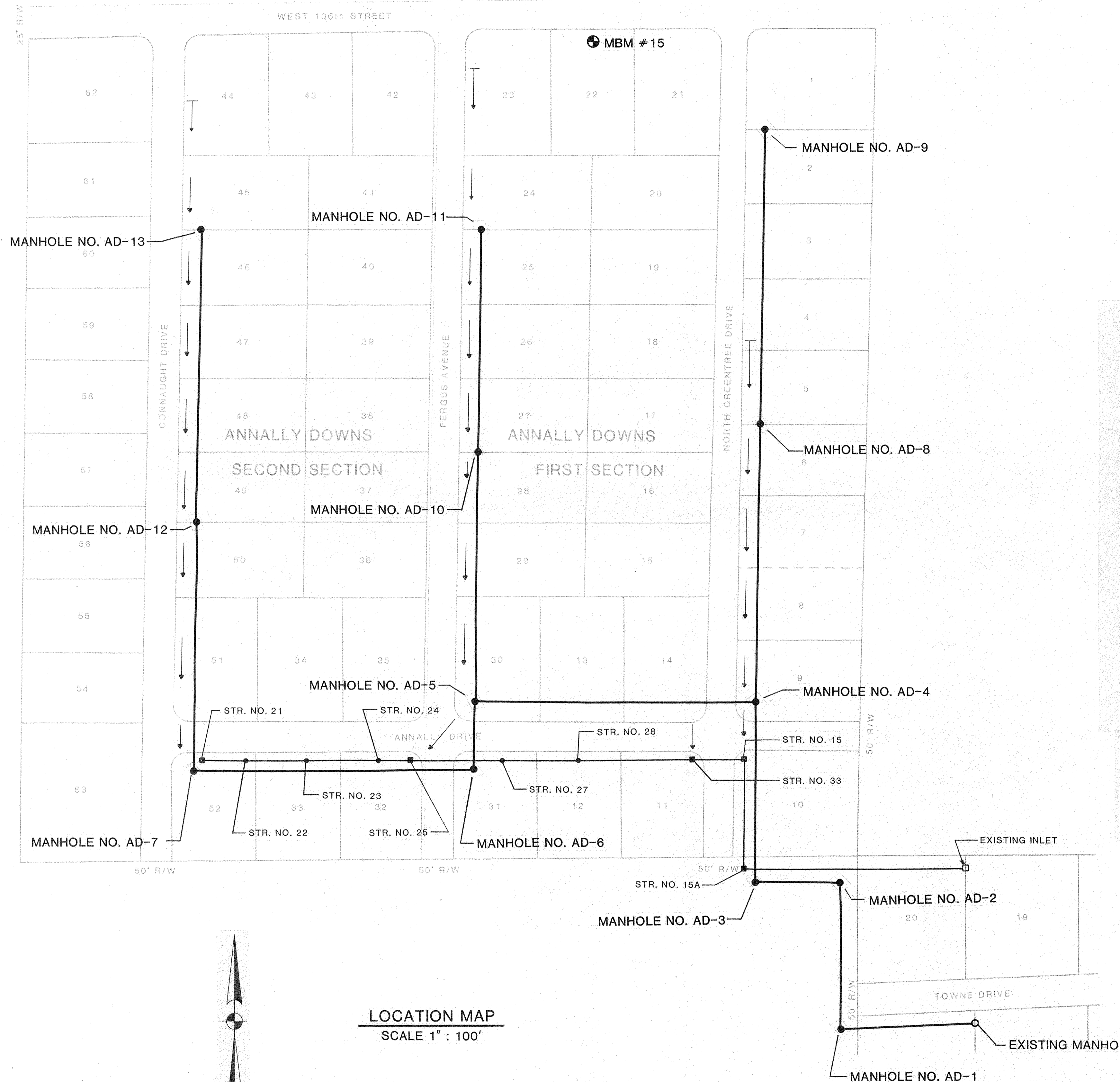
HAMILTON COUNTY DRAINAGE BOARD
ONE HAMILTON CO. SQUARE
SUITE 146
NOBLESVILLE, INDIANA 46060-2230
(317)776-9627

HAMILTON COUNTY HIGHWAY DEPARTMENT
1717 EAST PLEASANT
NOBLESVILLE, INDIANA 46060
(317)773-7770
TOM STEVENS

UTILITY HOTLINE 1-800-382-5544

MBM #15 EL.: 893.78 NORTHWEST CORNER OF WEST CONCRETE HEADWALL AT 3263 WEST 106th STREET

BENCHMARK DATA
**DEPROVED
DO NOT USE**



- LEGEND**
- DITCH FLOW
 - SANITARY SEWER
 - STORM SEWER
- GENERAL NOTES**
1. ALL MANHOLES TO BE TYPE "A" CONSTRUCTION UNLESS OTHERWISE NOTED.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF THE UTILITY COMPANIES AND MAKE ARRANGEMENTS AND/OR AGREEMENTS FOR LOCATING AND/OR RELOCATING ANY CONFLICTING SERVICES WITHIN THE PROJECT LIMITS, AT CONTR'S. EXPENSE
 3. EXISTING UTILITY SERVICES FOR INDIVIDUAL HOMES OR BUSINESSES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL CONFIRM THESE LOCATIONS AND PROTECT AND/OR REPAIR PROMPTLY ANY SERVICES OR MAIN LINES THAT HAVE BEEN DAMAGED BY CONSTRUCTION. (THIS INCLUDES THE REPAIR OF FIELD TILES, ACTIVE OR INACTIVE.)
 4. ALL FIELD TILE DAMAGED DURING INSTALLATION OF SANITARY SEWER FACILITIES TO BE REPAIRED WITH A TILE OF EQUIVALENT MATERIAL.
 5. WATERLINE SEPARATION FROM A SANITARY SEWER SHALL BE 10 FT. HORIZONTAL AND 18 IN. VERTICAL.
 6. CONTRACTOR SHALL STRIP AND STORE TOPSOIL ON-SITE SEPARATE FROM SUBSOIL. TOPSOIL IS TO BE REUSED FOR FINISH GRADING.
 7. REPRESENTATIVES FROM THE VARIOUS PIPELINES MUST BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES AROUND THE RESPECTIVE UTILITY.
 8. EXISTING R/W WIDTHS FOR ALL HAMILTON COUNTY STREETS AND ROADS WERE OBTAINED FROM THE HAMILTON COUNTY HIGHWAY DEPT.

LOCATION MAP
SCALE 1" : 100'

RECORD DRAWINGS
DECEMBER 5, 1993 **FILED**

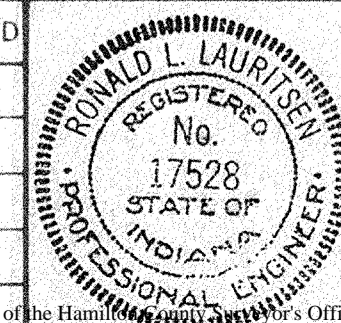
DEC 28 1993
OFFICE OF HAMILTON COUNTY SURVEYOR

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					R. LAURITSEN	1274	2
					J. THOMPSON		
					R. LAURITSEN		
					S. L. MOORE		
						DATE	
						OCT. 1992	

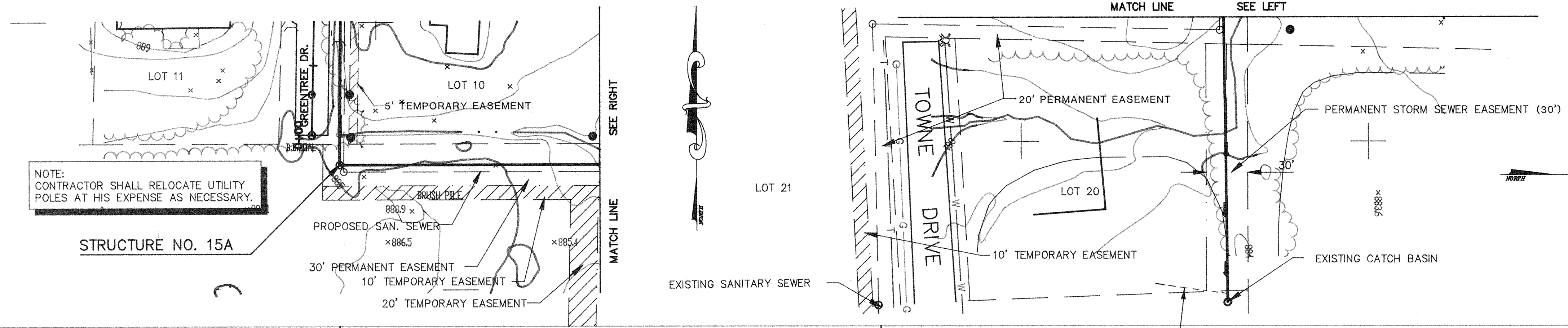
Samuel L. Moore & Associates, Inc.
Consulting Engineers
6363 HOLLISTER DRIVE
SPEEDWAY, INDIANA 46224

ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS

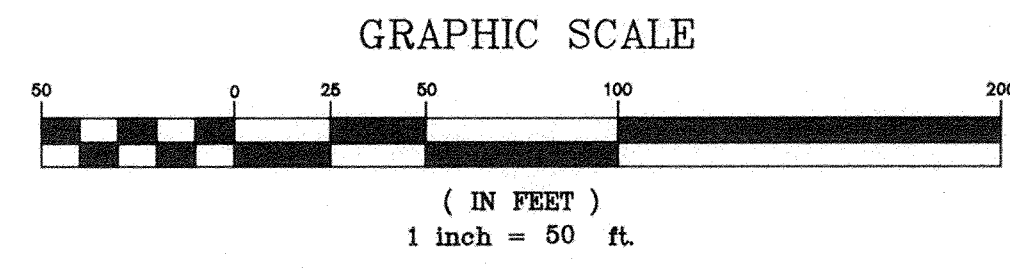
GENERAL INFORMATION



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NOTE: REMOVE EXIST. DRAIN TILE WITHIN CONSTRUCTION LIMITS AS NECESSARY



NOTE: CONTRACTOR SHALL RELOCATE UTILITY POLES AT HIS EXPENSE AS NECESSARY.

T.S. EL. = 883.00
INV. EL. = 889.05
880.31

T.O.C. = 883.27

STRUCTURE NO. 15A + 120 L.F.
EL. = EXIST. GRND.

EXISTING GROUND

+ 1.67 %

EXIST. CATCH BASIN
T.C. EL. = 881.55
INV. EL. = 875.37
875.96

NOTE: CONTRACTOR SHALL VERIFY INV. ELEV. BEFORE BEGINNING CONSTRUCTION.

401
399 L.F. OF 15" BUTT PIPE @ 1.20 %
1.00 %

KEY
xxx.xx INDICATES RECORD MEASUREMENTS

RECORD DRAWINGS
DECEMBER 5, 1993

SYMBOL	REVISIONS	BY	DATE	APPROVED



DESIGNER J. THOMPSON
DRAFTSMAN G. ANDRICK
PROJ. ENGR. R. LAURITSEN
PROJ. MGR. S. MOORE
BY *Ronald L. Lauritsen*
DATE Oct 9, 1992

SAMUEL L. MOORE & ASSOCIATES, INC.

Consulting Engineers

6363 HOLLISTER DRIVE SPEEDWAY, INDIANA 46224

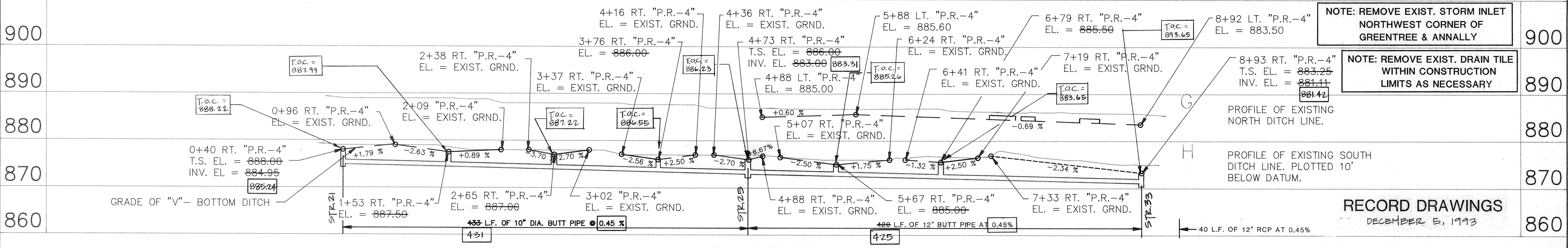
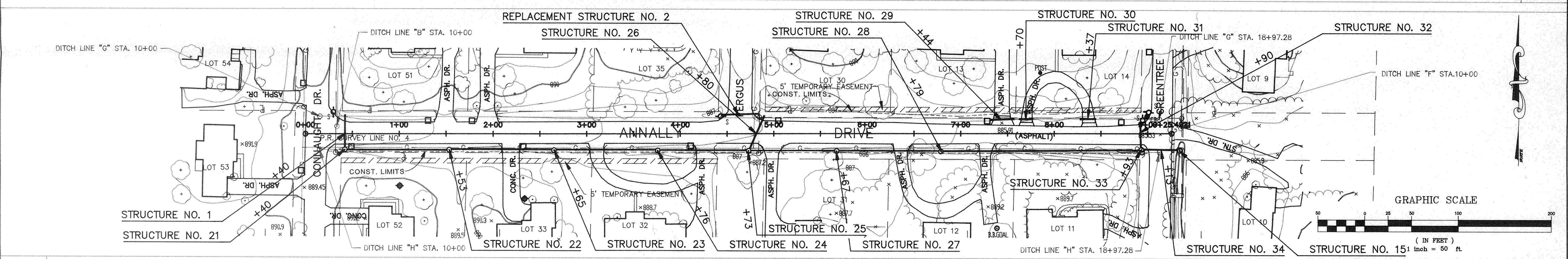
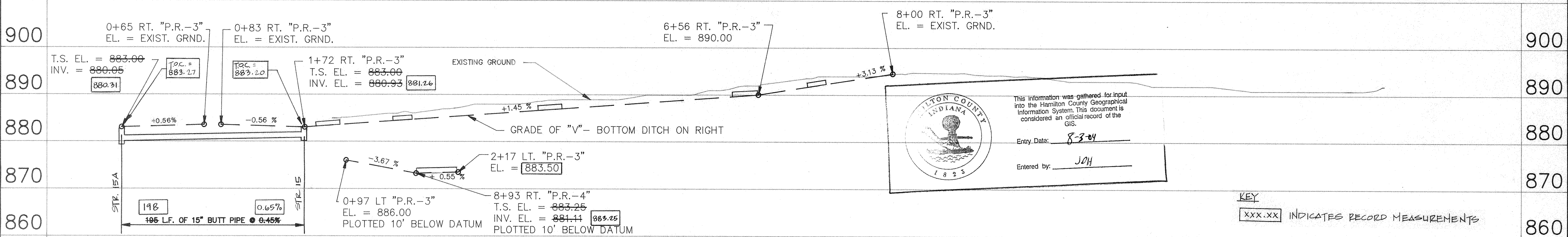
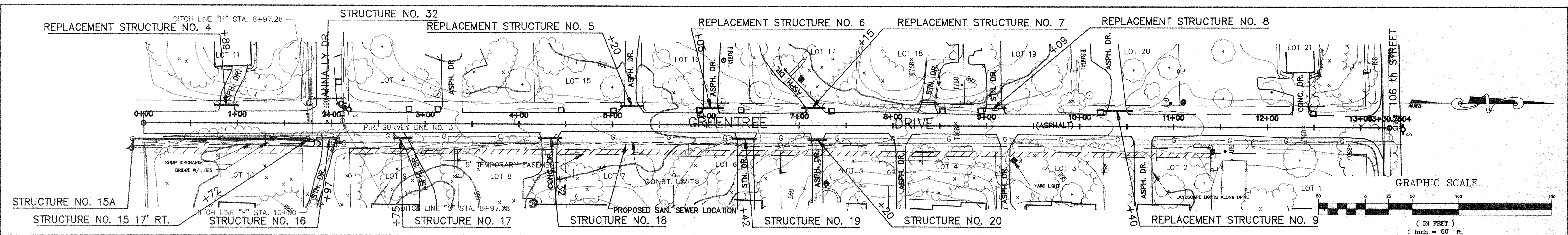
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ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS

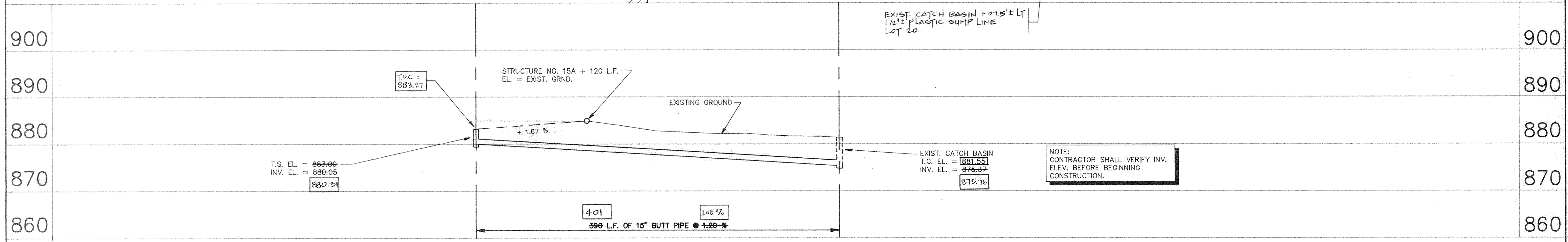
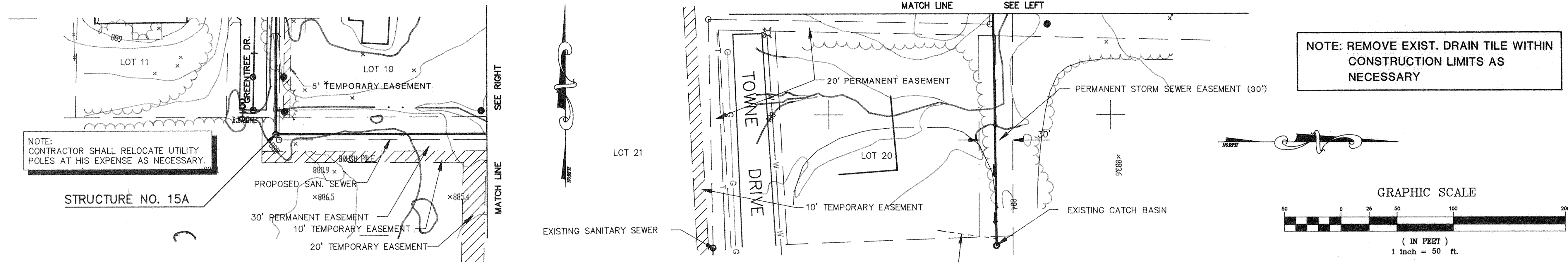
DRAINAGE IMPROVEMENTS PLAN AND PROFILE

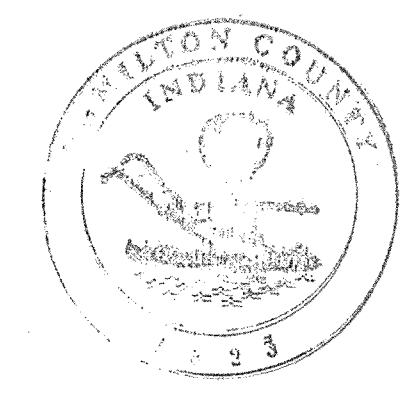
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DEC 28 1993
OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET NO.
6
OF
26



SYMBOL	REVISIONS	BY	DATE	APPROVED	DESIGNER	J. THOMPSON	DRAFTSMAN	G. ANDRICK	PROJ. ENGR.	R. LAURITSEN	PROJ. MGR.	S. MOORE	JOB NO.	1274	DATE	OCT. 1992	OFFICE OF HAMILTON COUNTY SURVEYOR	SHEET NO.	7
												SAMUEL L. MOORE & ASSOCIATES, INC. Consulting Engineers 6363 HOLLISTER DRIVE SPEEDWAY, INDIANA 46224		FILED DRAINAGE IMPROVEMENTS PLAN AND PROFILE DEC 28 1993		26			

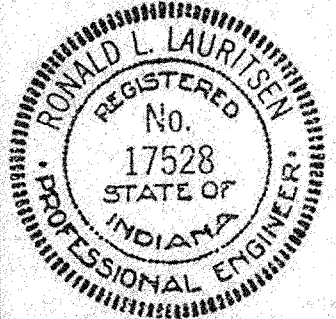


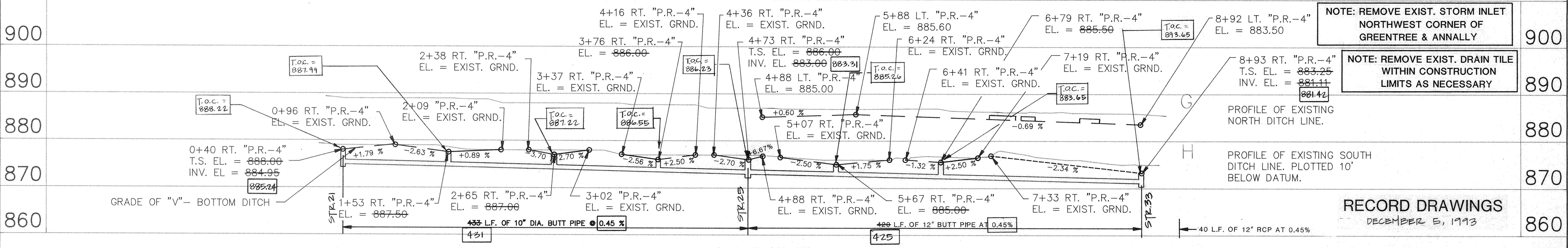
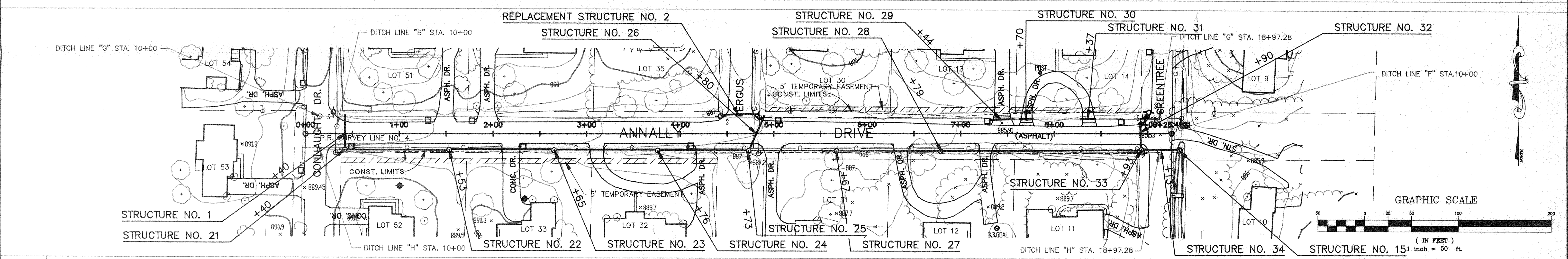
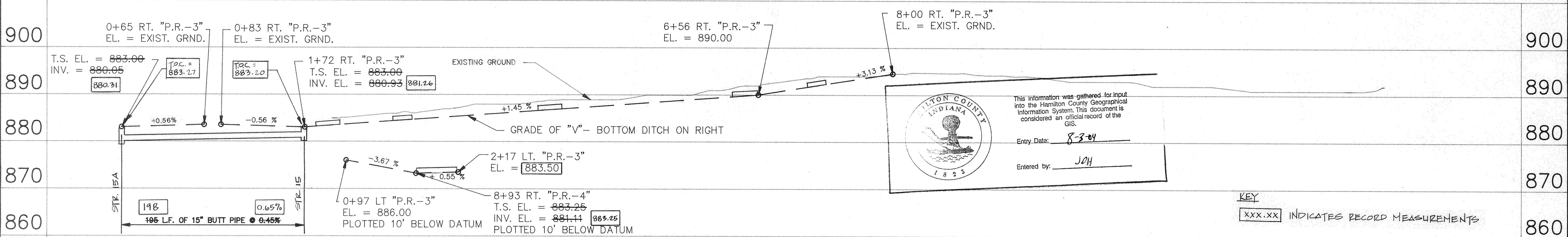
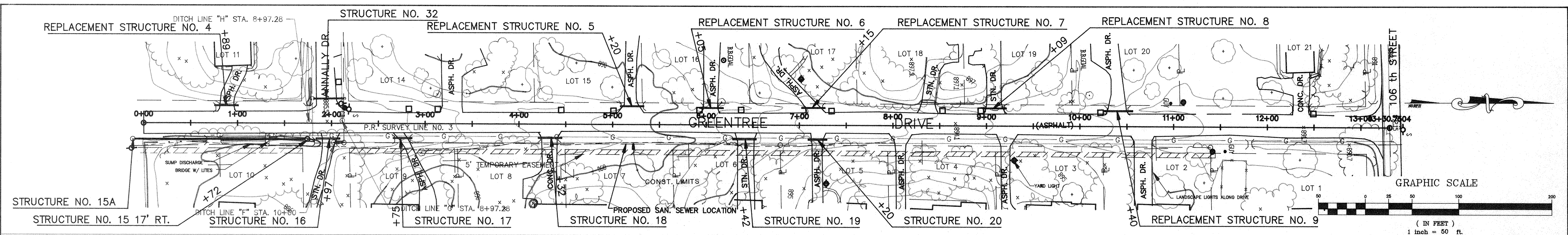

 This information was prepared for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
 Entry Date: 8-3-07
 Entered by: JMH

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880		880
870		870
860		860

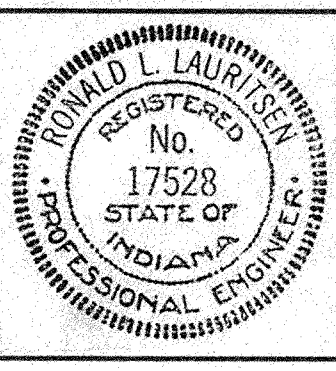
KEY
 xxx.xx INDICATES RECORD MEASUREMENTS

RECORD DRAWINGS
 DECEMBER 5, 1993

<table border="1"> <thead> <tr> <th>SYMBOL</th> <th>REVISIONS</th> <th>BY</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	SYMBOL	REVISIONS	BY	DATE	APPROVED																						DESIGNER J. THOMPSON DRAFTSMAN G. ANDRICK PROJ. ENGR. R. LAURITSEN PROJ. MGR. S. MOORE BY <u>Ronald L. Lauritsen</u> DATE <u>Oct 9, 1992</u>	SAMUEL L. MOORE & ASSOCIATES, INC. Consulting Engineers 6363 HOLLISTER DRIVE SPEEDWAY, INDIANA 46224	JOB NO. 1274 DATE OCT. 1992	ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS DRAINAGE IMPROVEMENTS PLAN AND PROFILE DEC 28 1993 OFFICE OF HAMILTON COUNTY SURVEYOR	SHEET NO. 6 OF 26
SYMBOL	REVISIONS	BY	DATE	APPROVED																											

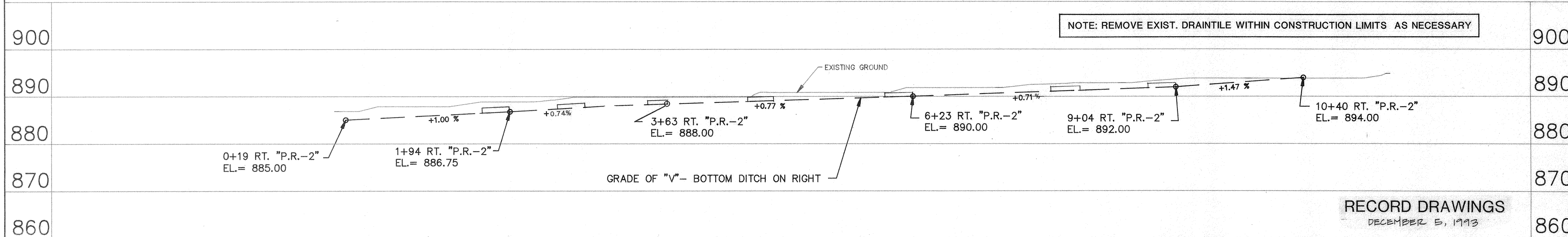
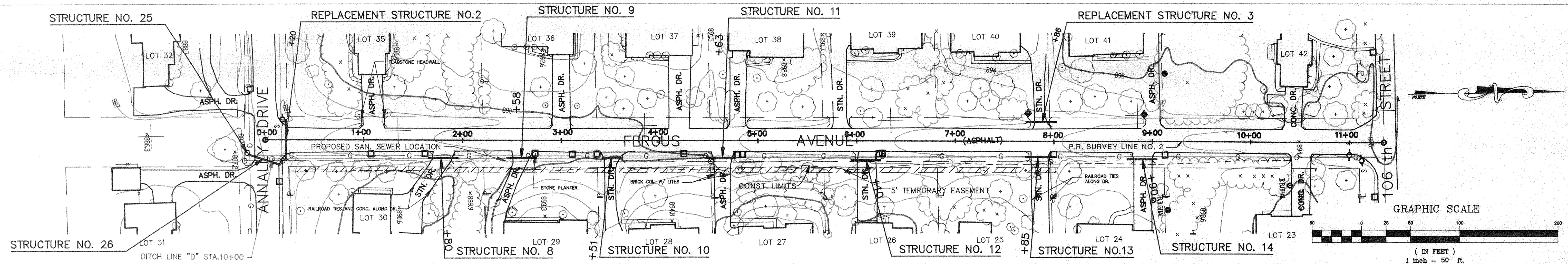
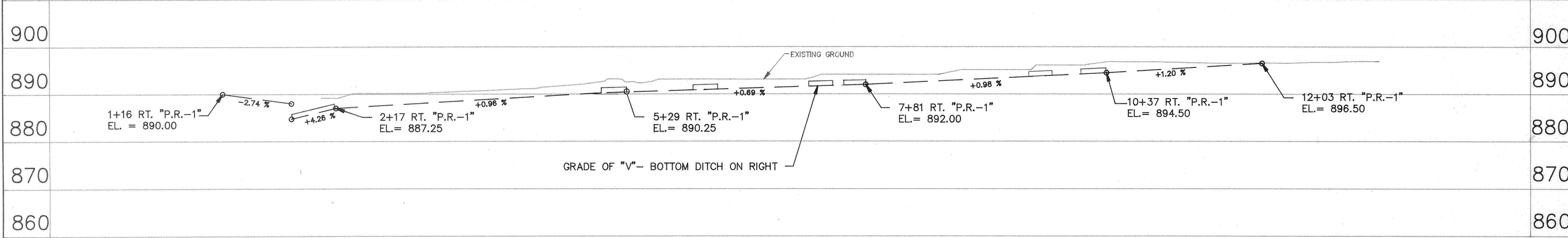
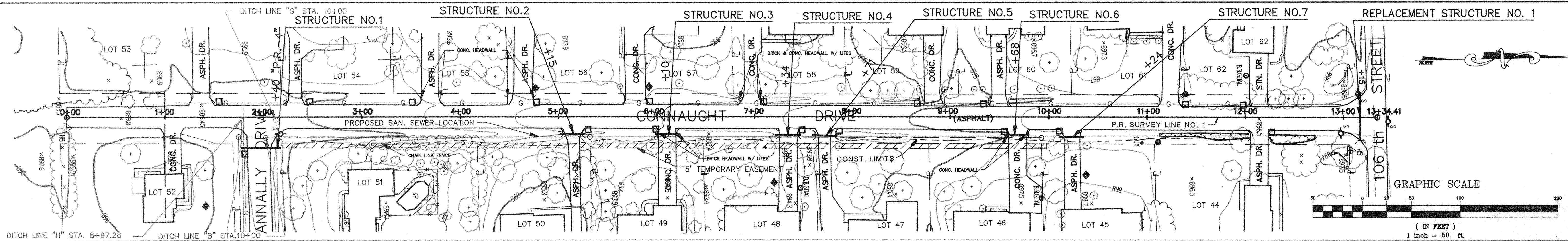


SYMBOL	REVISIONS	BY	DATE	APPROVED	DESIGNER	J. THOMPSON	JOB NO.	ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS	SHEET NO.
					DRAFTSMAN	G. ANDRICK	1274	DRAINAGE IMPROVEMENTS PLAN AND PROFILE	7
					PROJ. ENGR.	R. LAURITSEN	DATE		
					PROJ. MGR.	S. MOORE		OFFICE OF HAMILTON COUNTY SURVEYOR	26



SAMUEL L. MOORE & ASSOCIATES, INC.
 Consulting Engineers
 6363 HOLLISTER DRIVE
 SPEEDWAY, INDIANA 46224

FILED
 DEC 28 1993
 OFFICE OF HAMILTON COUNTY SURVEYOR

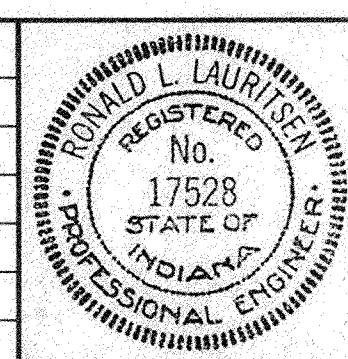


RECORD DRAWINGS
DECEMBER 5, 1993

SYMBOL	REVISIONS	BY	DATE	APPROVED

DESIGNER R. LAURITSEN
DRAFTSMAN G. ANDRICK
PROJ. ENGR. R. LAURITSEN
PROJ. MGR. S. MOORE

BY *Ronald L. Lauritsen*
DATE *Dec 27, 1993*

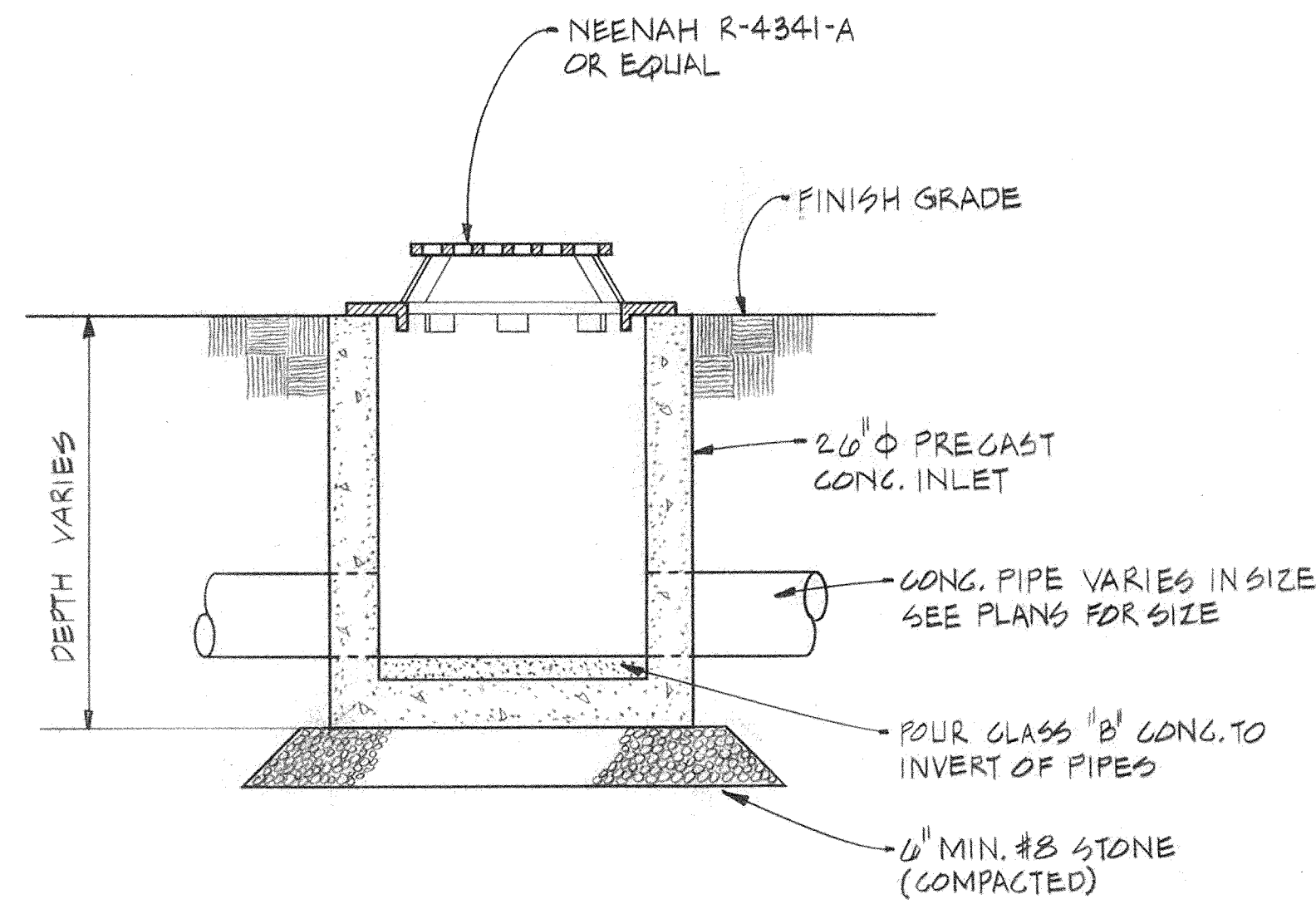


SAMUEL L. MOORE & ASSOCIATES, INC.
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6363 HOLLISTER DRIVE SPEEDWAY, INDIANA 46224

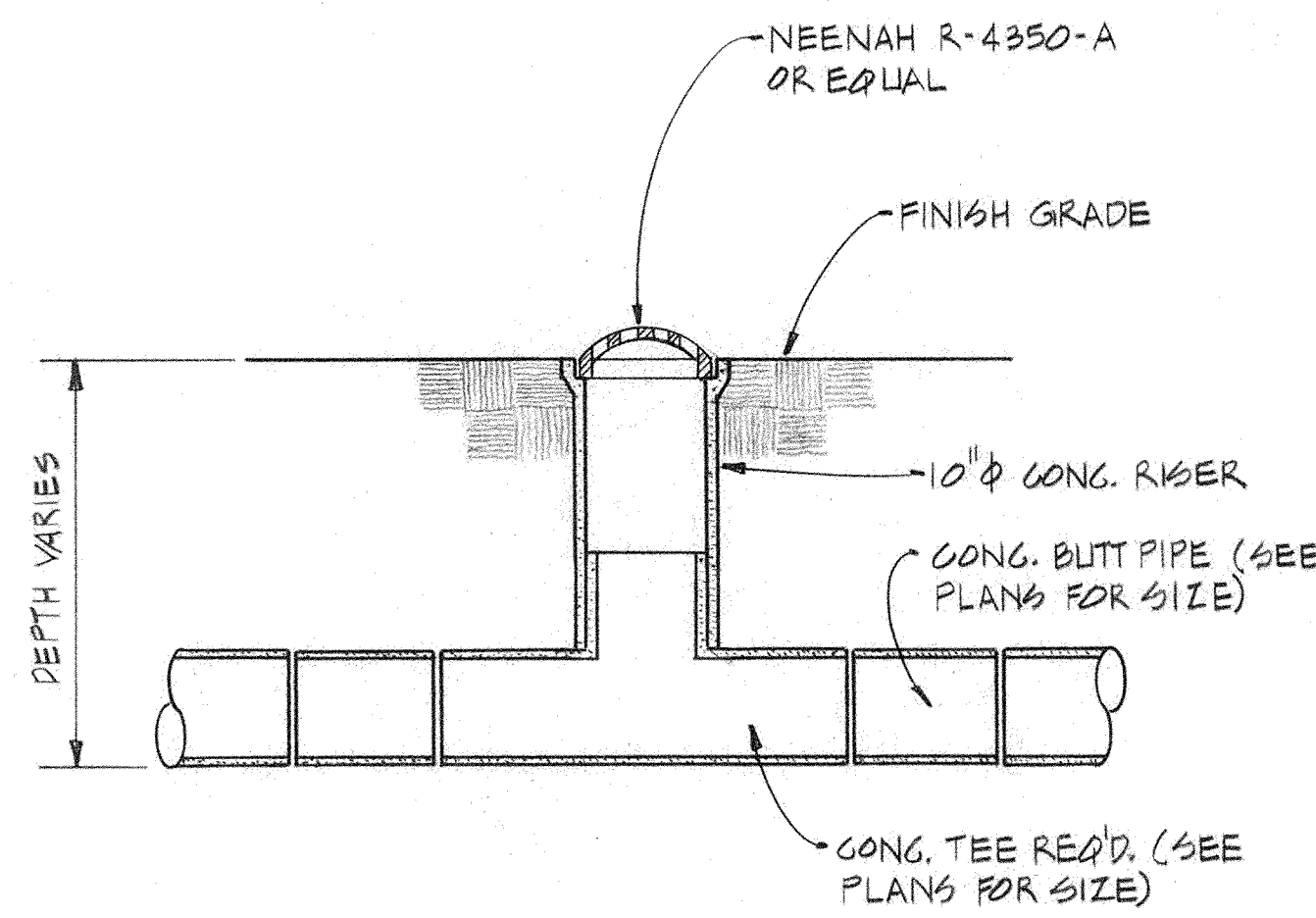
JOB NO. 1274
DATE OCT. 1992

ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS
DRAINAGE IMPROVEMENTS PLAN AND PROFILE
DEC 28 1993
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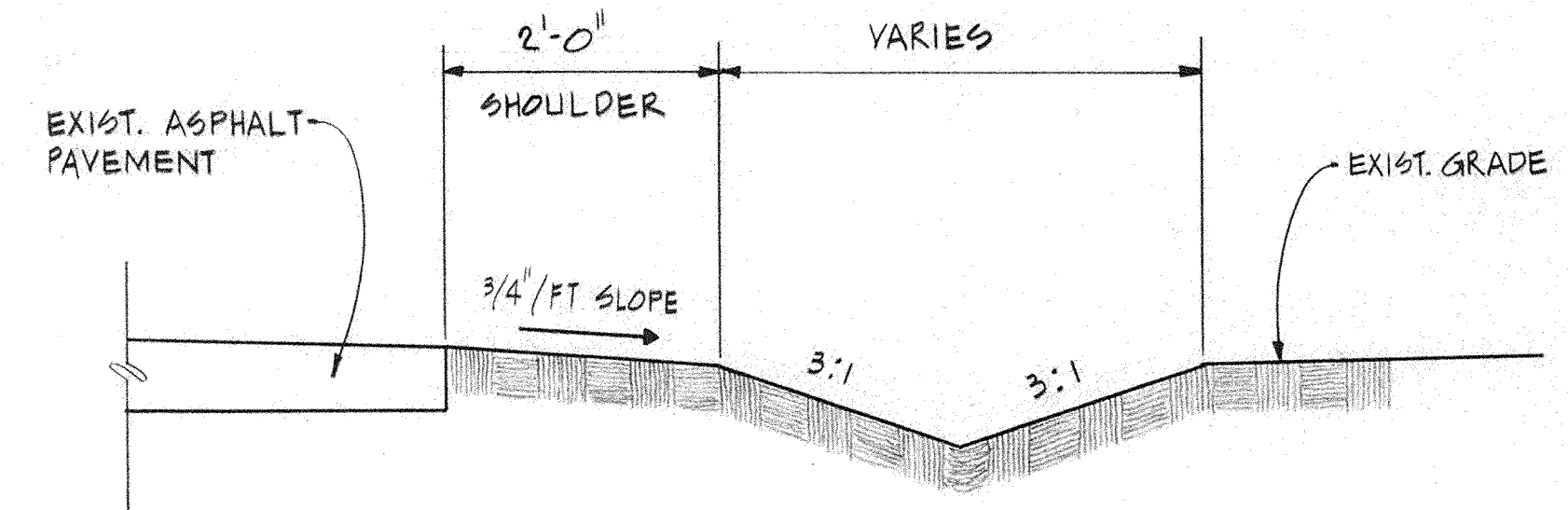
SHEET NO. 8 OF 26



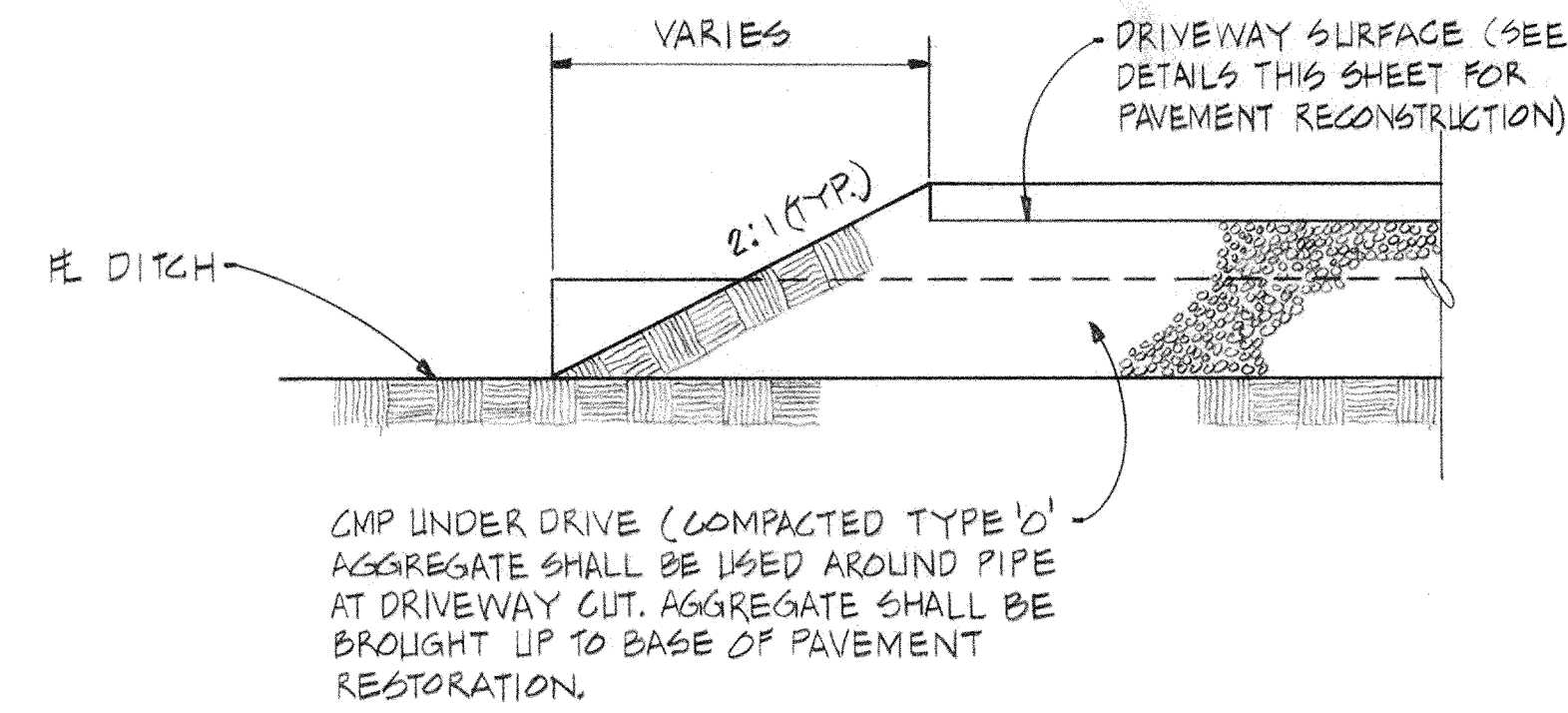
PRECAST INLET DETAIL
SCALE 3/4" : 1'-0"



YARD INLET DETAIL
SCALE 3/4" : 1'-0"



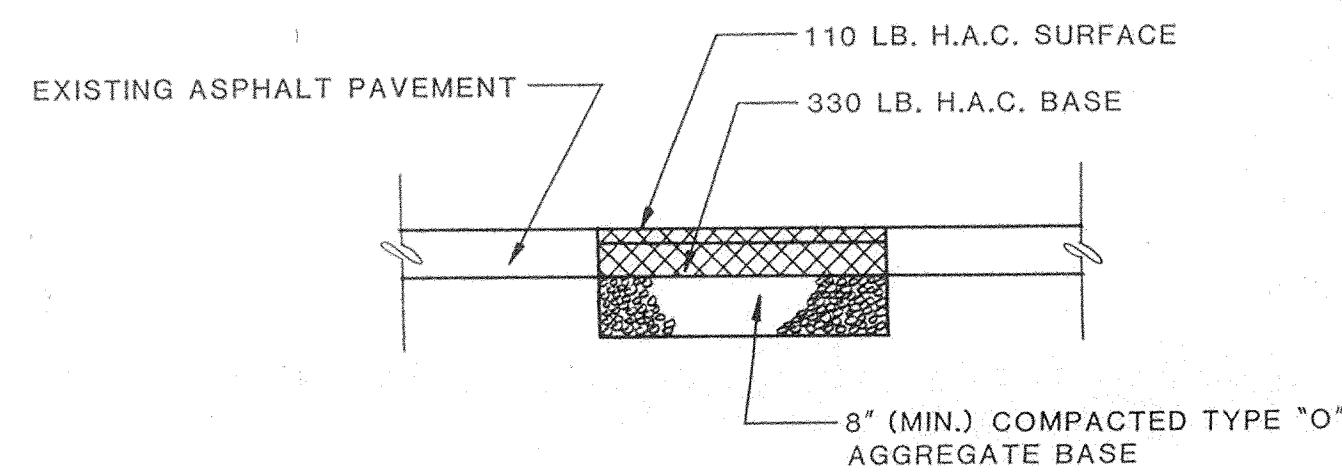
TYPICAL SHOULDER AND SIDE DITCH DETAIL
SCALE 3/4" : 1'-0"



TYPICAL SECTION AT DRIVE/END OF PIPE
SCALE 1/2" : 1'-0"

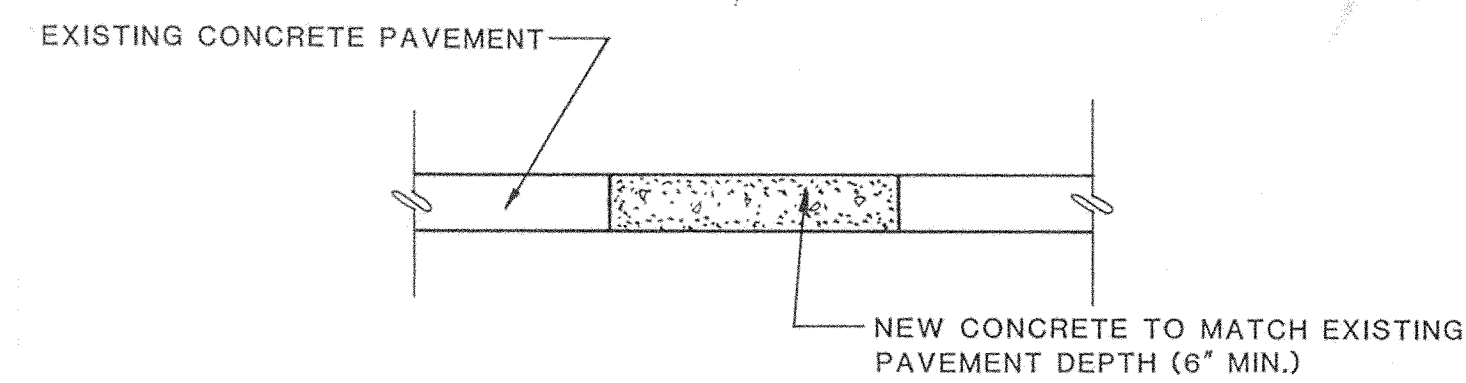
NOTE:
BACKFILLING AT PIPE STRUCTURES

1. CONCRETE BUTT PIPE - BUTT PIPE NOT UNDER DRIVEWAY IS TO BE BACKFILLED W/ CLEAN EXCAVATED MATERIAL FREE OF ROCKS 2" OR LARGER. BUTT PIPE UNDER DRIVEWAYS IS TO BE BACKFILLED W/ COMPACTED TYPE 10" AGGREGATE TO BASE OF PAVEMENT RESTORATION. (SEE PAVEMENT RECONSTRUCTION DETAILS THIS SHEET).
2. CMP - CMP UNDER DRIVEWAYS ARE TO BE BACKFILLED W/ COMPACTED TYPE 10" AGGREGATE TO BASE OF PAVEMENT RESTORATION. CMP UNDER PUBLIC ROADS SHALL BE BACKFILLED AS PER CMP UNDER DRIVEWAYS. (SEE PAVEMENT RECONSTRUCTION DETAILS THIS SHEET).
3. RGP - RGP UNDER PUBLIC ROADS SHALL BE BACKFILLED TO SPRINGLINE OF PIPE W/ #8 AGGREGATE, COMPACTED GRANULAR BACKFILL IS TO BE USED FROM SPRINGLINE OF PIPE TO BASE OF PAVEMENT RESTORATION. (SEE PAVEMENT RECONSTRUCTION DETAILS THIS SHEET).



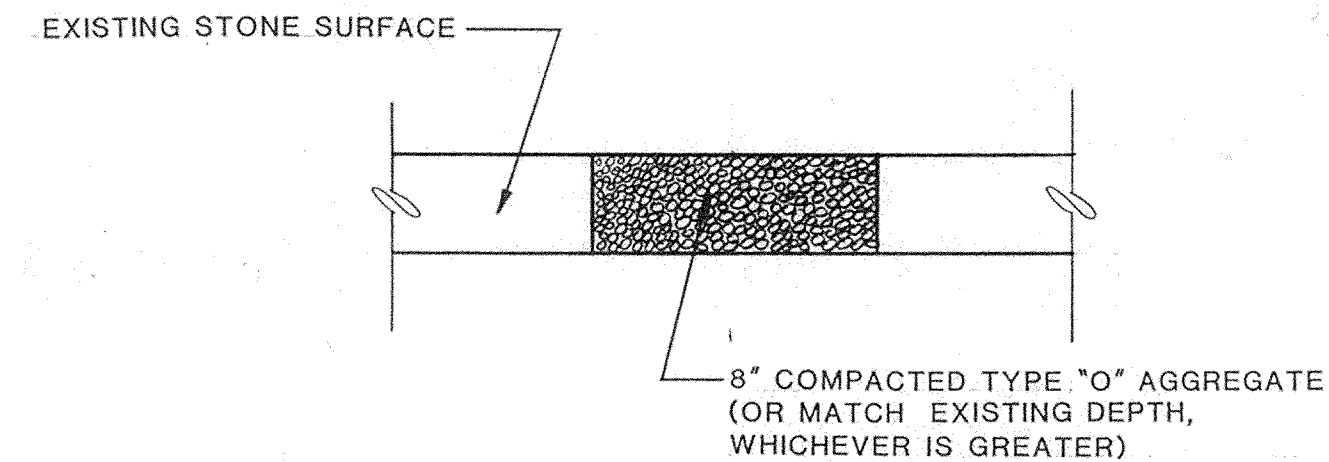
NOTE: EXISTING PAVEMENT EDGES TO BE SAW CUT.

ASPHALT

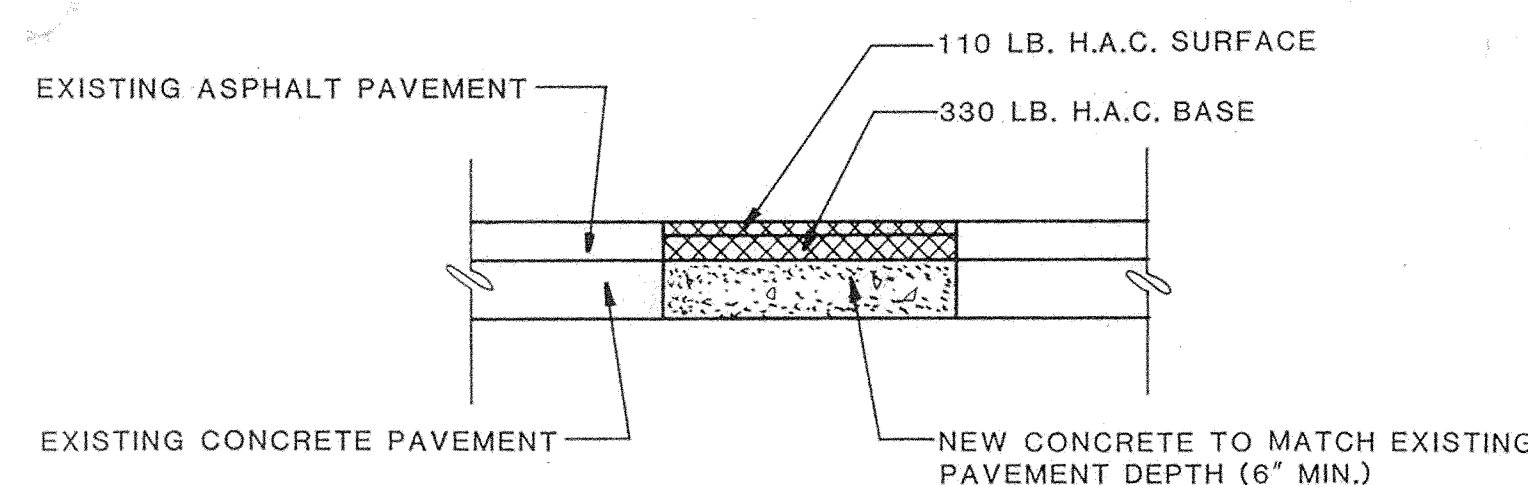


NOTE: EXISTING PAVEMENT EDGES TO BE SAW CUT.

CONCRETE



STONE



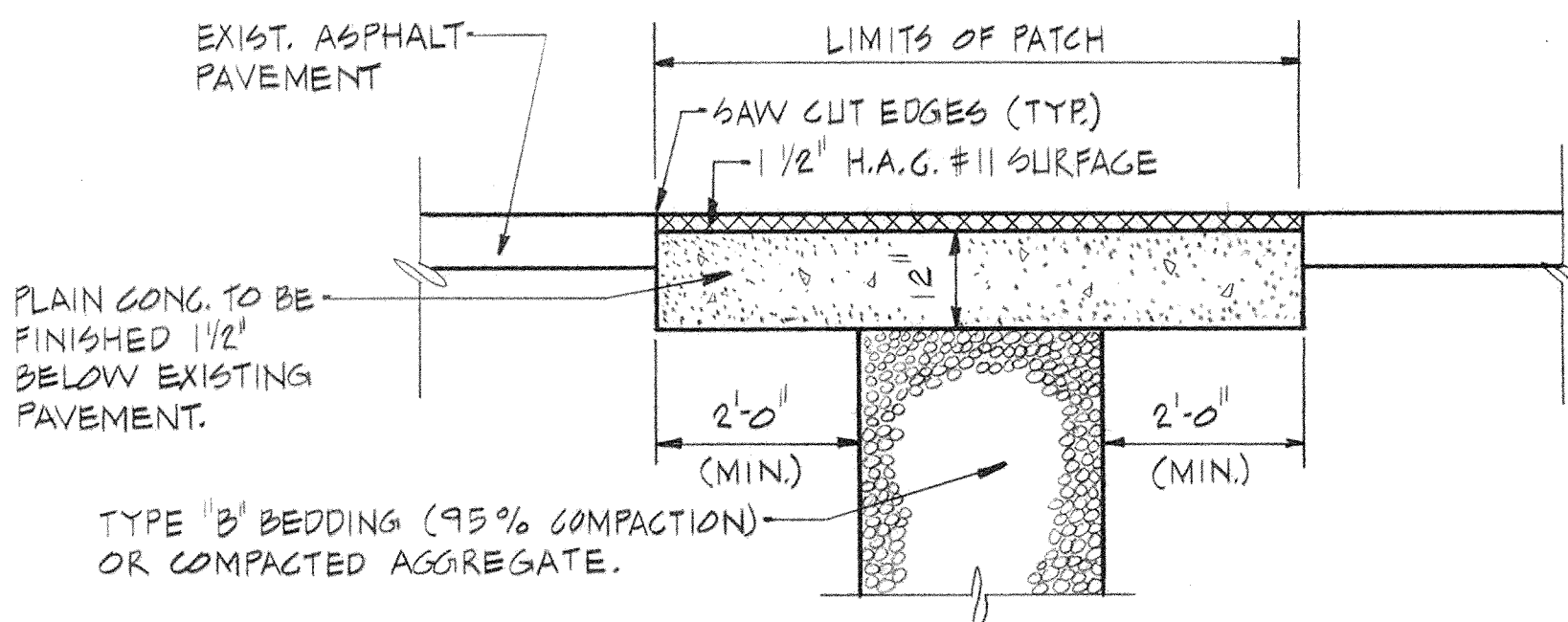
NOTE: EXISTING PAVEMENT EDGES TO BE SAW CUT.

ASPHALT OVER CONCRETE

NOTES:

1. SEE SPECIFICATIONS (SECTION 02500) FOR FURTHER PAVING REQUIREMENTS.
2. GRANULAR BACKFILL UNDER PAVEMENT REPAIR SHALL BE JETTED AS PER SPECIFICATIONS (SECTION 02200).
3. BASE ASPHALT SHALL BE 3" IN DEPTH (AS NOTED ON DETAILS) OR MATCH EXISTING ASPHALT DEPTH WHICHEVER IS GREATER.

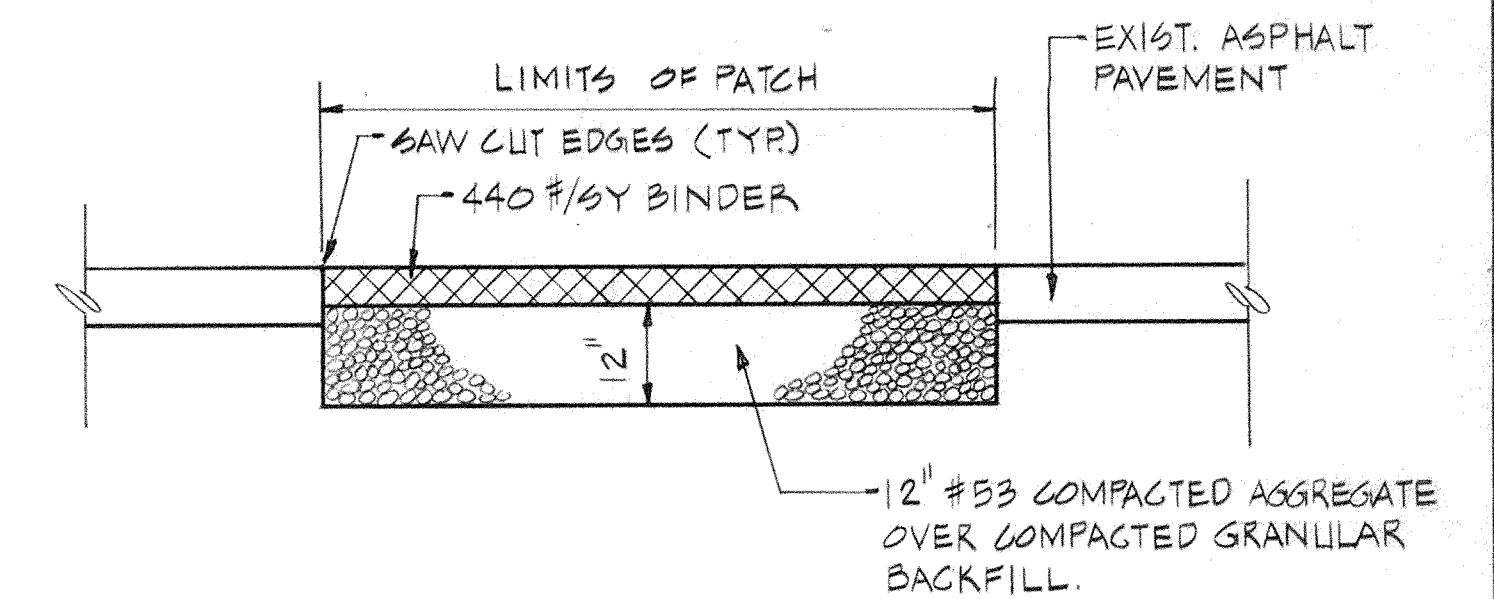
DRIVEWAY PAVEMENT RECONSTRUCTION DETAILS
NOT TO SCALE



NOTES:

1. NEW SURFACE IS TO BE SLOPED AT THE SAME RATE AS EXISTING SURFACE.
2. EXISTING PAVEMENT IS TO BE SAW CUT.
3. COMPACTED AGGREGATE IS TO BE PLACED IN 6" LIFTS & IS TO BE COMPACTED TO A MINIMUM OF 95%.
4. TRENCH SOIL IS TO BE REMOVED FROM WORK SITE.
5. ASPHALT PATCH IS TO BE 1 1/2" #11 H.A.C. SURFACE.
6. BITUMINOUS TACK IS TO BE APPLIED AS PER I.N.D.O.T. STANDARD SPECIFICATION - 1988, SECTION 409 & 902.

PUBLIC ROAD CUT RECONSTRUCTION DETAIL
(FOR CUTS LESS THAN 6' IN WIDTH)
NOT TO SCALE

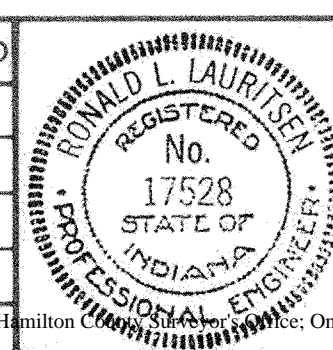


PUBLIC ROAD CUT RECONSTRUCTION DETAIL
(FOR CUTS GREATER THAN 6' IN WIDTH)
NOT TO SCALE

DRIVEWAY & PUBLIC ROAD RECONSTRUCTION DETAILS
NOT TO SCALE

RECORD DRAWINGS
DECEMBER 5, 1993
DEC 28 1993
OFFICE OF HAMILTON COUNTY SURVEYOR

SYMBOL	REVISIONS	BY	DATE	APPROVED



DESIGNER R. LAURITSEN
DRAFTING J. THOMPSON
PROJ. ENGR. R. LAURITSEN
PROJ. MGR. S. L. MOORE
BY *Ronald Lauritsen*
DATE 12/1/93

SAMUEL L. MOORE & ASSOCIATES, INC.
Consulting Engineers
6363 HOLLISTER DRIVE SPEEDWAY, INDIANA 46224

JOB NO. 1274
DATE OCT. 1992

ANNALLY DOWNS COLLECTION SEWERS AND DRAINAGE IMPROVEMENTS
STANDARD STORM AND DITCH DETAILS
SHEET NO. 10 OF 26