

Drain: SUTTON PLACE DRAIN **Drain #:** 244
Improvement/Arm: HUNTINGTON CHASE
Operator: JDH **Date:** 6-4-04
Drain Classification: Urban/Rural **Year Installed:** 1997

GIS Drain Input Checklist

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

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

Drain-Improvement: SUTTON PLACE DRAIN - HUNTINGTON CHASE

Drain Type:	Size:	Length <i>SURVEYORS REPORT</i>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
<i>SSD</i>	<i>6"</i>	<i>8,902'</i>	<i>8,902'</i>	<i>∅</i>		
<i>RCD</i>	<i>12"</i>	<i>1,774'</i>	<i>1,770'</i>	<i>-4'</i>		
	<i>15"</i>	<i>508'</i>	<i>508'</i>	<i>∅</i>		
	<i>18"</i>	<i>735'</i>	<i>745'</i>	<i>+10'</i>		
	<i>21"</i>	<i>408'</i>	<i>410'</i>	<i>+2'</i>		
	<i>24"</i>	<i>382'</i>	<i>374'</i>	<i>-8'</i>		
	<i>27"</i>	<i>353'</i>	<i>353'</i>	<i>∅</i>		

Sum: *13062* *13062'* *∅*

Final Report: _____

Comments:
SR AND AB DISAGREE ON 12", 18", 21", AND 24" LENGTHS



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

November 30, 1994

TO: Hamilton County Drainage Board

RE: Sutton Place Drain-Huntington Chase Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary, and assessment roll for the Huntington Chase Arm of the Sutton Place Drain. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

6"	SSD	7878 feet	21"	RCP	404 feet
12"	RCP	1755 feet	24"	RCP	374 feet
15"	RCP	493 feet	27"	RCP	356 feet
18"	RCP	743 feet			

The total length of the drain will be 12,003 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. Only the main SSD lines which are located within the easement/right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows: Rear Lots 124, 125, 85, 86, 78-81, 110, 111, 103-107, 99, 100 and between

Page #2

Lots 82, 85, 82, 84, 101, 102, 112, 114, 97, 94, 97, 95.

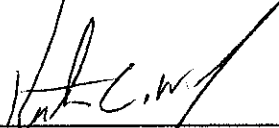
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$25.00 per lot, \$5.00 per acre for roadways, with a \$25.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$ /250.22 .

Parcels assessed for this drain may be assessed for the Williams Creek or Osborn-Collins, Springmill Run or the Crooked Stick Drains at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Huntington Chase as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 1995.



Kenton C. Ward
Hamilton County Surveyor
KCW/no



NBD Bank, N.A.
 International Operations, MS 1624
 One Indiana Square
 Indianapolis, Indiana 46266
 (313) 266-5395

In All Correspondence
 Quote Our Reference No.

TELEX: MCI205615

◀ By Mail By Wire ▶

S.W.I.F.T.: INBI US44
 FAX: (317) 266-7150

IRREVOCABLE STANDBY LETTER OF CREDIT NO. 5036749
 OCTOBER 07, 1994

 *** B E N E F I C I A R Y *** | *** A P P L I C A N T ***
 HAMILTON COUNTY BOARD OF | LAND INNOVATORS CO.
 COMMISSIONERS | 234 S. FRANKLIN RD
 HAMILTON COUNTY DRAINAGE BOARD | INDIANAPOLIS, IN 46219
 ONE HAMILTON COUNTY SQUARE |
 NOBLESVILLE, IN 46060 |

*** EXPIRY DATE/PLACE *** | *** AVAILABLE AT/BY: ***
 EXPIRES ON OCTOBER 10, 1995 | OUR OFFICE ONLY BY PRESENTATION
 FOR PRESENTATION AT OUR OFFICE. | OF DOCUMENT(S) REQUIRED AND YOUR
 | DRAFT(S) DRAWN AT SIGHT.

 A M O U N T O F C R E D I T : NOT TO EXCEED, IN THE AGGREGATE
 208,644.00 U.S. DOLLARS

GENTLEMEN,

AT THE REQUEST AND FOR THE ACCOUNT OF THE ABOVE NAMED APPLICANT,
 WE HEREBY ESTABLISH OUR IRREVOCABLE LETTER OF CREDIT IN YOUR FAVOR,
 FAVOR WHICH IS AVAILABLE AS INDICATED ABOVE AGAINST PRESENTATION
 OF YOUR DRAFT(S) DRAWN ON NBD BANK, N.A., INDIANAPOLIS, INDIANA,
 WHEN ACCOMPANIED BY ORIGINAL OF THIS LETTER OF CREDIT AND THE
 FOLLOWING DOCUMENTS:

BENEFICIARIES SIGNED CERTIFICATE STATING THAT THE APPLICANT HAS
 FAILED TO COMPLETE EARTHWORK, EROSION CONTROL, STORM SEWER
 SUB-SURFACE DRAINS AND SURVEYING MONUMENTS IN SECTION II
 SUTTON PLACE, NOW KNOWN AS HUNTINGTON CHASE.

WE HEREBY ENGAGE WITH DRAWERS AND/OR BONA FIDE HOLDERS THAT
 DRAFTS DRAWN AND NEGOTIATED IN CONFORMITY WITH THE TERMS OF THIS
 CREDIT WILL BE DULY HONORED AT PRESENTATION.

EXCEPT SO FAR AS OTHERWISE EXPRESSLY STATED, THIS CREDIT
 SUBJECT TO THE UNIFORM CUSTOMS AND PRACTICE FOR DOCUMENTARY
 CREDITS, 1993 REVISION, INTERNATIONAL CHAMBER OF COMMERCE
 PUBLICATION NO. 500.

REGARDS,

Glenda C. Shieman
 AUTHORIZED SIGNATURE

[Signature]
 AUTHORIZED SIGNATURE

BOARD OF COMMISSIONERS
 OF THE COUNTY OF HAMILTON

[Signature]
[Signature]
 DATE 12-17-94

[Signature]
 HAMILTON COUNTY AUDITOR

HAMILTON COUNTY AUDITOR

posted 10-23-95



NBD Bank
International Operations, MS 318
One Indiana Square
Indianapolis, Indiana 46266
(317) 266-5395

In All Correspondence
Quote Our Reference No.
◀ By Mail By Wire ▶

TELEX: MCI205615
S.W.I.F.T.: NBDDUS44
FAX: (317) 266-7150

AMENDMENT NO. 001
LETTER OF CREDIT NO: S036749
OCTOBER 05, 1995

BENEFICIARY:		APPLICANT:
HAMILTON CO. BOARD OF		LAND INNOVATORS CO.
COMMISSIONERS		234 S. FRANKLIN RD
HAMILTON COUNTY JUDICIAL CENTERS		INDIANAPOLIS, IN 46219
ONE HAMILTON COUNTY SQUARE		
NOBLESVILLE, IN 46060		

GENTLEMEN:

THE ABOVE REFERENCED LETTER OF CREDIT IS AMENDED AS FOLLOWS:

+EXPIRATION DATE IS EXTENDED TO NOVEMBER 10, 1996

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

PLEASE NOTIFY US IMMEDIATELY IF THIS AMENDMENT IS NOT ACCEPTED BY YOU FOR ANY REASON. UNLESS REJECTED BY YOU, THIS AMENDMENT IS AN INTRICATE PART OF AND SHOULD BE ATTACHED TO THE ORIGINAL LETTER OF CREDIT.

VERY TRULY YOURS,

Mathew M. Sticher

AUTHORIZED SIGNATURE

BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON

Steven A. Cobb

Alan C. Dillingham

Sharon R. Clark

DATE 10/25/95

Genda C. Sherman

HAMILTON COUNTY AUDITOR
ATTEST:

ATTEST: *Jan M. Ogb*

HAMILTON COUNTY AUDITOR

DATED: _____
BY: _____
BY: _____
BY: _____

HAMILTON COUNTY BOARD OF COMMISSIONERS
RELEASE OF LETTER OF CREDIT
RELEASE OF MAINTENANCE/PERFORMANCE BOND



NBD Bank, N.A.
c/o The First National Bank of Chicago
Global Trade Services - Indiana, Mail Suite 0742
Chicago, Illinois 60670-0742 U.S.A.

Telex: MCI205615
Tel: (312) 954-1969

Swift Address: NBDDUS44
Fax: (312) 954-1964

AMENDMENT

DATE: SEPTEMBER 18, 1997

HAMILTON COUNTY BOARD OF
COMMISSIONERS
HAMILTON COUNTY DRAINAGE BOARD
ONE HAMILTON COUNTY SQUARE
NOBLESVILLE, IN 46060

DRAFTS DRAWN MUST BE MARKED:
00037999
OPENER'S REFERENCE NO:
00037999

LADIES/GENTLEMEN:

WE ARE INSTRUCTED BY:

LAND INNOVATORS CO.
234 S. FRANKLIN RD
INDIANAPOLIS, IN 46219

TO AMEND CREDIT 00037999 AS ISSUED IN YOUR FAVOR.

THIS AMENDMENT IS AN INTEGRAL PART OF THE ORIGINAL CREDIT.
ALL OTHER TERMS AND CONDITIONS OF THE LETTER OF CREDIT REMAIN
UNCHANGED.

AMENDED TERMS:

AMOUNT DECREASED BY: U.S. DOLLARS 205,764.00
THE AMOUNT OF THIS LETTER OF CREDIT IS DECREASED TO AN AGGREGATE OF
U.S. DOLLARS 2,880.00.

THE FOURTH PARAGRAPH WHICH BEGINS WITH: "BENEFICIARIES' SIGNED
CERTIFICATE STATING..." AND ENDS WITH: "...NOW KNOWN AS HUNTINGTON
CHASE." IS HEREBY DELETED AND REPLACED WITH THE FOLLOWING:

BENEFICIARIES' SIGNED CERTIFICATE, READING AS FOLLOWS: "LAND INNOVATORS
CO. HAS FAILED TO COMPLETE THE INSTALLATION OF MOMUMENTS AS REQUIRED IN
SECTION II OF SUTTON PLACE, HUNTINGTON CHASE ARM."

ALL AMENDMENTS UNDER LETTERS OF CREDIT ARE SUBJECT TO YOUR AGREEMENT AS
PER ARTICLE 9D, UCP 500. THIS AMENDMENT SHALL NOT BE CONSIDERED
OPERATIVE UNTIL YOU COMMUNICATE YOUR AGREEMENT TO THE AMENDED TERMS.

WE REQUIRE THAT YOU COMMUNICATE YOUR ACCEPTANCE/REJECTION OF THIS
AMENDMENT. PLEASE ACKNOWLEDGE YOUR ACCEPTANCE/REJECTION BY SIGNING AND
RETURNING A COPY OF THIS AMENDMENT TO: DONGYI CARVELL, GLOBAL TRADE
SERVICE DEPT.-INDIANA, SUITE 0742, AT YOUR EARLIEST CONVENIENCE; AND/OR
IF YOU ANTICIPATE PRESENTING DOCUMENTS IN COMPLIANCE WITH THESE AMENDED
TERMS, YOUR PRESENTATION WILL BE DEEMED AS ACCEPTANCE OF THIS
AMENDMENT.

(CONTINUED)

PAGE 1

NBD Bank, N.A.
c/o The First National Bank of Chicago
Global Trade Services - Indiana, Mail Suite 0742
Chicago, Illinois 60670-0742 U.S.A.

Telex: MCI205615
Tel: (312) 954-1969

Swift Address: NBDDUS44
Fax: (312) 954-1964

OUR REF NO: 00037999

DATE: SEPTEMBER 18, 1997

ACCEPTED *Jay L. Lester* *OCT. 13, 1997*
REJECTED _____
DATE *11/20/97*

THIS IS AMENDMENT NUMBER ONE.

YOURS VERY TRULY
NBD BANK, N.A.

Kathleen M. Haggerty
AUTHORIZED SIGNER *M*

Anna Christina
AUTHORIZED SIGNER



NBD Bank, N.A.
c/o The First National Bank of Chicago
Global Trade Services, Mail Suite 0742
Chicago, Illinois 60670-0742 U.S.A.

Telex: MCI205615
Tel: (312) 407-3843

Swift Address: NBDDUS44

STANDBY CREDIT

DATE: APRIL 29, 1997

HAMILTON COUNTY BOARD OF
COMMISSIONERS
HAMILTON COUNTY DRAINAGE BOARD
ONE HAMILTON COUNTY SQUARE
NOBLESVILLE, IN 46060

DRAFTS DRAWN MUST BE MARKED:
WITH OUR REF NO: 00037999
OPENER'S REFERENCE NO:
00037999

LADIES/GENTLEMEN:

BY THE ORDER OF:
LAND INNOVATORS CO.
234 S. FRANKLIN RD
INDIANAPOLIS, IN 46219

WE HEREBY ISSUE IN YOUR FAVOR OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO: 00037999 FOR THE ACCOUNT OF LAND INNOVATORS CO. FOR AN AMOUNT OR AMOUNTS NOT TO EXCEED IN THE AGGREGATE U.S. DOLLARS 208,644.00 (TWO HUNDRED EIGHT THOUSAND SIX HUNDRED FORTY FOUR AND NO/100 U.S. DOLLARS) AVAILABLE BY YOUR DRAFTS AT SIGHT ON NBD BANK, N.A., C/O THE FIRST NATIONAL BANK OF CHICAGO EFFECTIVE APRIL 29, 1997 AND EXPIRING AT OUR OFFICE ON APRIL 29, 1998.

FUNDS UNDER THIS CREDIT ARE AVAILABLE AGAINST YOUR DRAFT(S) MENTIONING OUR CREDIT NUMBER.

THE BELOW-MENTIONED DOCUMENTS MUST BE PRESENTED AT SIGHT ON OR BEFORE THE EXPIRY DATE ON THIS INSTRUMENT IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS LETTER OF CREDIT.

BENEFICIARIES' SIGNED CERTIFICATE STATING THAT THE APPLICANT HAS FAILED TO COMPLETE EARTHWORK, EROSION CONTROL, STORM SEWERS, SUB-SURFACE DRAINS AND SURVEYING MONUMENTS IN SECTION II OF SUTTON PLACE, NOW KNOWN AS HUNTINGTON CHASE.

IT IS A CONDITION OF THIS LETTER OF CREDIT THAT IT SHALL BE DEEMED AUTOMATICALLY EXTENDED FOR 12 MONTHS FROM THE PRESENT OR ANY FUTURE EXPIRATION DATE HEREOF, UNLESS 90 DAYS PRIOR TO ANY SUCH DATE WE SHALL NOTIFY YOU BY REGISTERED MAIL, RETURN RECEIPT REQUESTED, THAT WE ELECT NOT TO CONSIDER THIS LETTER OF CREDIT RENEWED FOR ANY SUCH ADDITIONAL PERIOD.

WE ENGAGE WITH YOU THAT DRAFTS DRAWN UNDER AND IN CONFORMITY WITH THE TERMS OF THIS CREDIT WILL BE DULY HONORED ON PRESENTATION IF PRESENTED TO: NBD BANK, N.A., C/O THE FIRST NATIONAL BANK OF CHICAGO,

(CONTINUED)

PAGE 1



NBD Bank, N.A.
c/o The First National Bank of Chicago
Global Trade Services, Mail Suite 0742
Chicago, Illinois 60670-0742 U.S.A.

Telex: MCI205615
Tel: (312) 407-3843

Swift Address: NBDDUS44

OUR REF NO: 00037999

DATE: APRIL 29, 1997

ATTN: GLOBAL TRADE SERVICE DEPT.-INDIANA, ONE FIRST NATIONAL PLAZA,
SUITE 0742, CHICAGO, ILLINOIS 60670-0742 ON OR BEFORE THE EXPIRY DATE.

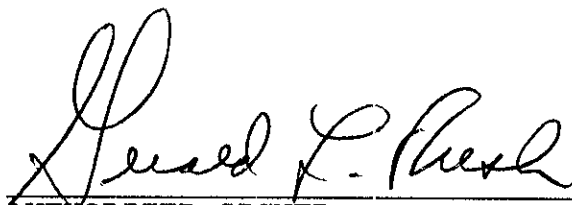
THE ORIGINAL LETTER OF CREDIT MUST ACCOMPANY THE DOCUMENTS REQUIRED
UNDER THIS CREDIT.

THE CREDIT IS SUBJECT TO THE UNIFORM CUSTOMS AND PRACTICE FOR
DOCUMENTARY CREDITS (1993 REVISION), INTERNATIONAL CHAMBER OF COMMERCE
-PUBLICATION 500.

PLEASE ADDRESS ALL CORRESPONDENCE REGARDING THIS LETTER OF CREDIT TO:
NBD BANK, N.A., C/O THE FIRST NATIONAL BANK OF CHICAGO, ATTN:
GTS-INDIANA, ONE FIRST NATIONAL PLAZA, SUITE 0742, CHICAGO, IL
60670-0742, MENTIONING OUR REFERENCE NUMBER AS IT APPEARS ABOVE.

VERY TRULY YOURS
NBD BANK, N.A.



AUTHORIZED SIGNER

AUTHORIZED SIGNER



Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

One Hamilton County Square
Noblesville, Indiana 46060-2230

Map Correction-Field Verification

Drain Number: #244

Drain Length: 13,022 Ft.

Drain Name: Sutton Place - Huntington Place Arm Change +/-: +9 Ft.

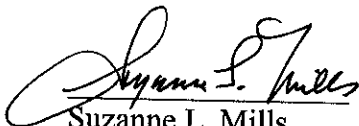
Date: 7-28-03

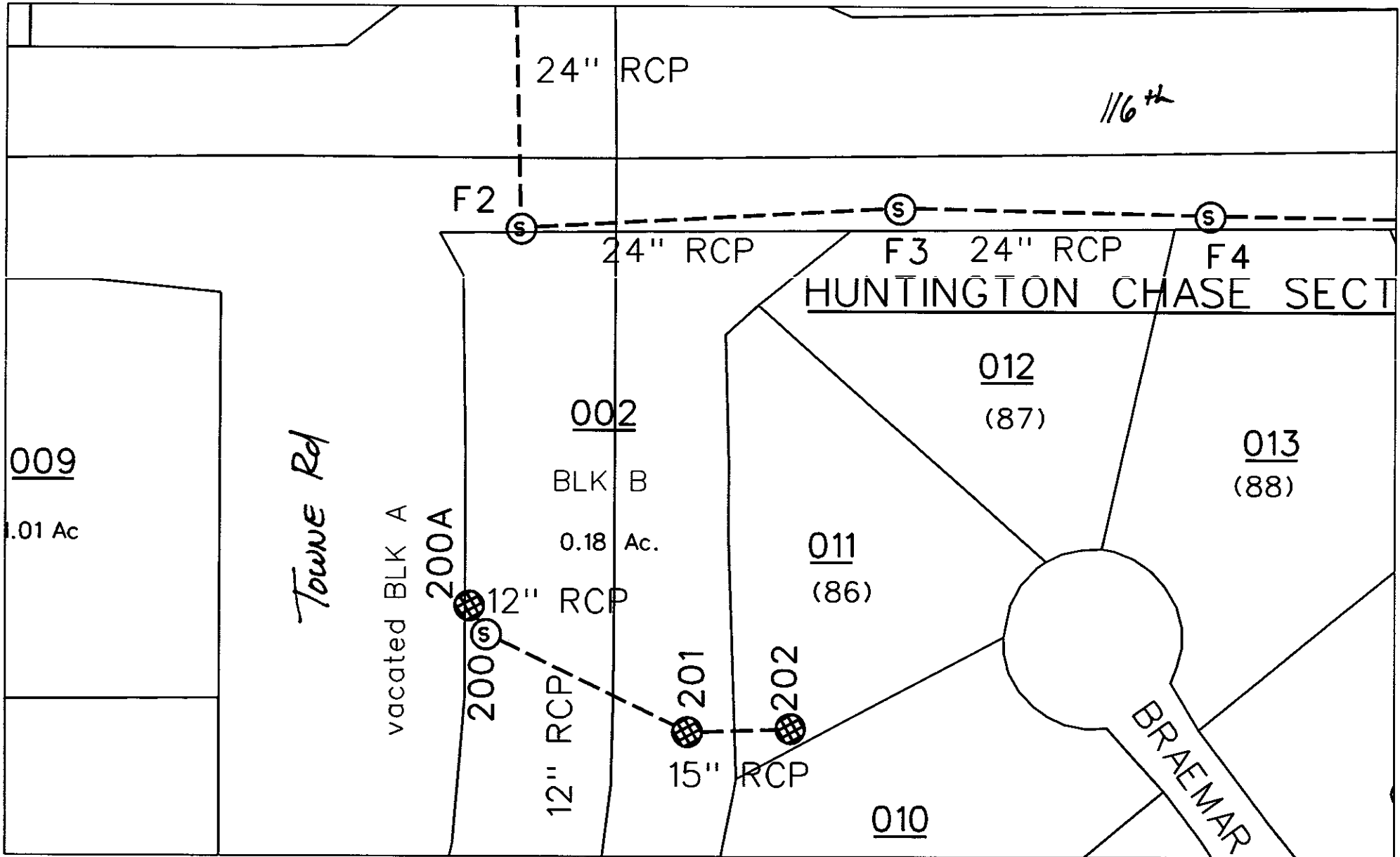
New Length: 13,031 Ft.

Verified By: Suzanne Mills & Steve Bartz

Notes & Sketch: See attached sketch.

Field check was performed due to the intersection improvements completed at 116th street & Towne Road. There was an additional structure set in the ROW for Towne Road. This accounts for the addition of 9 feet of 12" RCP to the drains length. The structure set was an inlet to pick up surface water in the ROW.


Suzanne L. Mills
GIS Specialist





sub_rg_drn.dgn 6/4/2004 2:20:52 PM

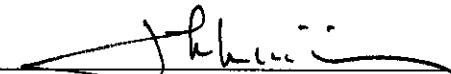
CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Huntington Chase - Storm & Earthwork

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana .
2. I am familiar with the plans and specifications for the above referenced subdivision .
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision .
4. The drainage facilities within the above referenced subdivision to the best of my knowledge , information and belief have been installed and completed in comformity with all plans and specifications .

Signature:  Date: June 2, 1997

Type or Print Name: John W. Whitlock

Business Address: Evergreen Planners, Inc.

234 S. Franklin Road Indianapolis, IN 46219

Telephone Number: 317-353-6161

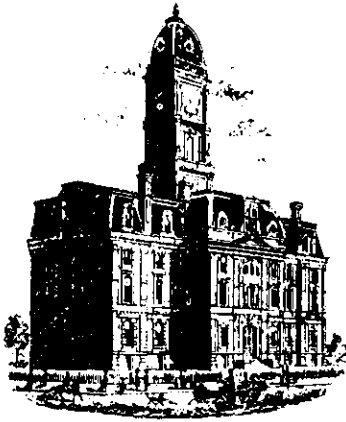
SEAL



INDIANA REGISTRATION NUMBER

S-0163

Revised 10/95



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

To: Hamilton County Drainage Board

October 9, 1997

Re: Sutton Place Drain - Huntington Chase Arm

Attached are as-builts, certificate of completion & compliance, and other information for Huntington Chase Sec. 2. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated November 30, 1994. The changes are as follows:

- Str. 224-225 15"RCP shortened from 43' feet to 42' feet.
- Str. 225-226 18"RCP lengthened from 28' to 29' feet.
- Str. 222-211 12"RCP shortened from 294' feet to 293' feet.
- Str. 211-210 15"RCP lengthened from 410' feet to 415' feet.
- Str. 209-208 12"RCP lengthened from 210' feet to 216' feet.
- Str. 208-228 12"RCP lengthened from 30' feet to 32' feet.
- Str. 220-221 21"RCP shortened from 228' feet to 227' feet.
- Str. 221-211 21"RCP lengthened from 177' feet to 182' feet.
- Str. 212-213 27"RCP shortened from 132' feet to 125' feet.
- Str. 213-205A 27"RCP lengthened from 224' feet to 228' feet.
- Str. 205A-205 24"RCP lengthened from 149' feet to 153' feet.
- Str. 205-204 24"RCP lengthened from 48' feet to 52' feet.
- Str. 204-203 18"RCP shortened from 30' feet to 28' feet.
- Str. 203-202 18"RCP shortened from 220' feet to 215' feet.
- Str. 202-201 15"RCP lengthened from 40' feet to 51' feet.
- Str. 201-200 12"RCP shortened from 115' feet to 114' feet.
- Str. 220-219 12"RCP lengthened from 160' feet to 165' feet.
- Str. 212-207 12"RCP lengthened from 163' feet to 168' feet.
- Str. 214A-214 12"RCP lengthened from 30' feet to 31' feet.
- Str. 214-215 12"RCP lengthened from 180' feet to 184' feet.

Str. 215-216 18"RCP lengthened from 222' feet to 223' feet.

Str. 216-220 18"RCP lengthened from 87' feet to 90' feet.

Str. 220-218 18"RCP shortened from 107' feet to 102' feet.

Str. 218-217 18"RCP shortened from 49' feet to 48' feet.

The corrected total of 6"ssd is 8,902.

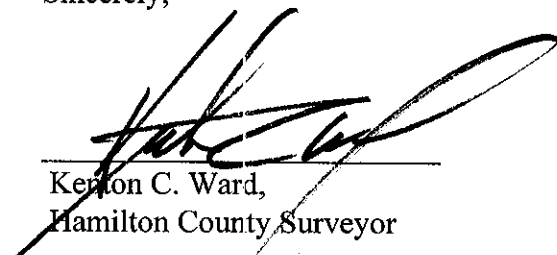
The length of the drain due to the changes described above is now ^{13,002'}~~13,022~~feet.

The non-enforcement was approved by the Board at its meeting on January 23, 1995 and recorded under instrument #9503048.

The bond or letter of credit from NBD, number S036749; dated October 7, 1995; in the amount of \$208,644.00; was released May 27, 1997. Amendment 001 to the letter of credit expired November 11, 1996. Letter of credit from NBD, number S00037999, for earthwork, erosion control, storm sewers, subsurface drains, and surveying monuments; in the amount \$208,644.00, has been recommended for release in a letter to the Commissioners dated October 13, 1997.

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

Sincerely,



Kerton C. Ward,
Hamilton County Surveyor

KCW/slm

Asbuilt Structures

Project: Huntington Chase Arm - Sutton Place Sec 2

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

STR. 223	886.11	883.87				
STR. 224	888.24	882.87	12"	181'	/	
STR. 224	888.24	882.87				
STR. 225	887.84	882.56	15"	42'	/	FRM 43'
STR. 225	887.84	882.56				
STR. 226	887.90	882.14	18"	291'	/	FRM 28'
STR. 222	888.73	885.79				
STR. 211	887.71	883.36	12"	293'	/	FRM 294'
STR. 211	887.71	883.36				
STR. 210	891.61	884.73	15"	415'	/	FRM 410'
STR. 209	894.45	889.50				
STR. 208	894.12	890.89	12"	216'	/	FRM 210'
STR. 208	894.12	890.89				
STR. 228	893.07	891.26	12"	32'	/	FRM 30'
STR. 220	892.39	885.50				
STR. 221	887.25	884.26	21"	227'	/	FRM 228'
STR. 221	887.25	884.26				
STR. 211	887.71	883.36	21"	182'	/	FRM 177'

6" SSD Streets:

Total: _____

RCP Pipe Totals:

6" SSD Lots:

Total: _____

Other Drain:

Total Length of Drain: _____

Asbuilt Structures

Project: Huntington Chase Aram. Sutton Place Sec. 2

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

Str. 211	887.71	883.36				
Str. 212	890.50	881.86	24"	173'		
Str. 212	890.50	881.86				
Str. 213	889.10	881.47	27"	125'	FRM 132'	
Str. 213	889.10	881.47				
Str. 205A	887.85	880.05	27"	228'	FRM 224'	
Str. 205A	887.85	880.05				
Str. 205	890.04	880.63	24"	153'	FRM 149'	
Str. 205	890.04	880.63				
Str. 204	888.89	880.92	24"	48"	FRM 52'	
Str. 204	888.89	880.92				
Str. 203	889.03	880.83	18"	28'	FRM 30'	
Str. 203	889.03	880.83				
Str. 202	889.52	881.75	18"	215'	FRM 220'	
Str. 202	889.52	881.75				
Str. 201	888.49	881.87	15"	51'	FRM 40'	
Str. 201	888.49	881.87				
Str. 200	888.44	883.98	12"	114'	FRM 115'	

6" SSD Streets:

Total: _____

RCP Pipe Totals:

6" SSD Lots:

Total: _____

Other Drain:

Total Length of Drain: _____

Asbuilt Structures

Project: Hunting Chase Apm - Sutton Place Sec 2

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

STR. 220	892.39	885.50				
STR. 219	890.82	887.94	12"	165'	FRM 160'	
STR. 212	890.50	881.86				
STR. 207	891.72	886.25	12"	168'	FRM 163'	
STR. 207	891.72	886.25				
STR. 206	891.63	883.46	12"	28'		
STR. 214A		888.14				
STR. 214	888.47	886.93	12"	31'	FRM 30'	
STR. 214	888.47	886.93				
STR. 215	889.77	886.15	12"	184'	FRM 180'	
STR. 215	889.77	886.15				
STR. 216	892.28	885.83	18"	223'	FRM 222'	
STR. 216	892.28	885.83				
STR. 220	892.39	885.50	18"	90'	FRM 87'	
STR. 220	892.39	885.50				
STR. 218	889.76	885.91	18"	102'	FRM 107'	
STR. 218	889.76	885.91				
STR. 217	889.28	886.03	18"	48'	FRM 49'	

6" SSD Streets:

Total: _____

RCP Pipe Totals:

6" SSD Lots:

Total: _____

Other Drain:

Total Length of Drain: _____

Asbuilt Structures

Project: Huntington Chase Area - Sutton Place Sec. 2

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

STR. 217	889.88	886.03				
str. 227	890.59	886.66	12"	49'		
STR. 210	891.61	887.73				
Str. 209	894.45	889.50	12"	280'		

6" SSD Streets:

Abbey CT N.	424.79
Abbey CT S.	214.65
Sutton Place Dr.	2013.58
Becketts Ct.	192.74
Wicket Cr	213.40
Paget Dr.	454.19

6" SSD Lots:

121-125	105'
83-84	345'
78-81	560'
110-111	60'
103-101	385
99-102	330
94, 97, 95	90'

Total: 3513.35 x 2 = 7026.7

Total: 1875

RCP Pipe Totals:

12"	1741'
15"	508'
18"	735'
21"	409'
24"	374'
27"	353'

8910.7

Other Drain:	

Total Length of Drain: 13,022

CONSTRUCTION RECORD DRAWING FOR STORM Sutton Place Section 2

Clay Township, Hamilton County, Indiana

"RECORD DRAWING" CERTIFICATION

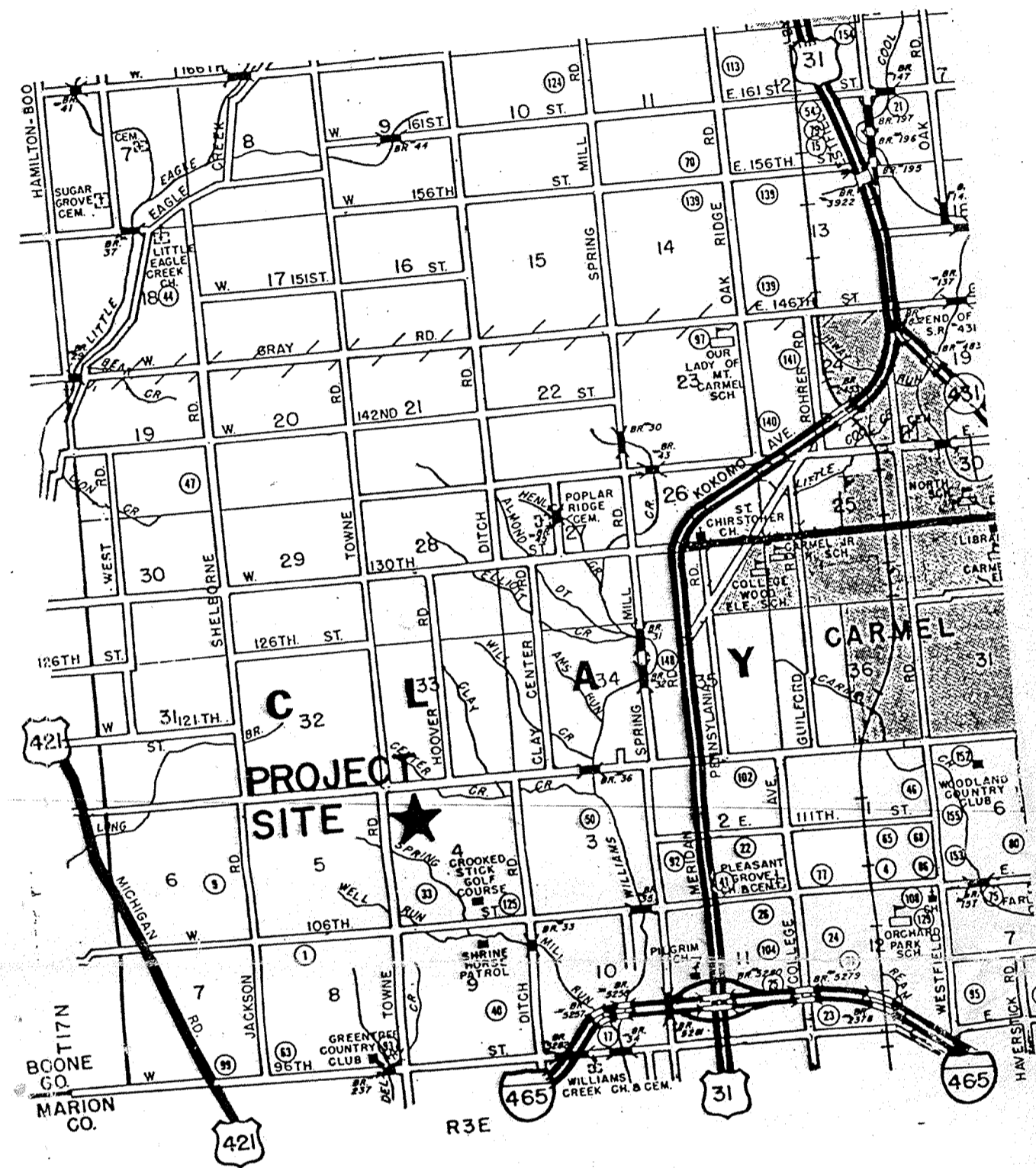
CERTIFIED BY: *Arthur L. Kaser* 6/19/97
 Arthur L. Kaser, P.L.S.
 Evergreen Planners, Inc.
 234 South Franklin Road
 Indianapolis, Indiana 46219

REGISTERED
 No. S-0529
 STATE OF INDIANA
 LAND SURVEYOR

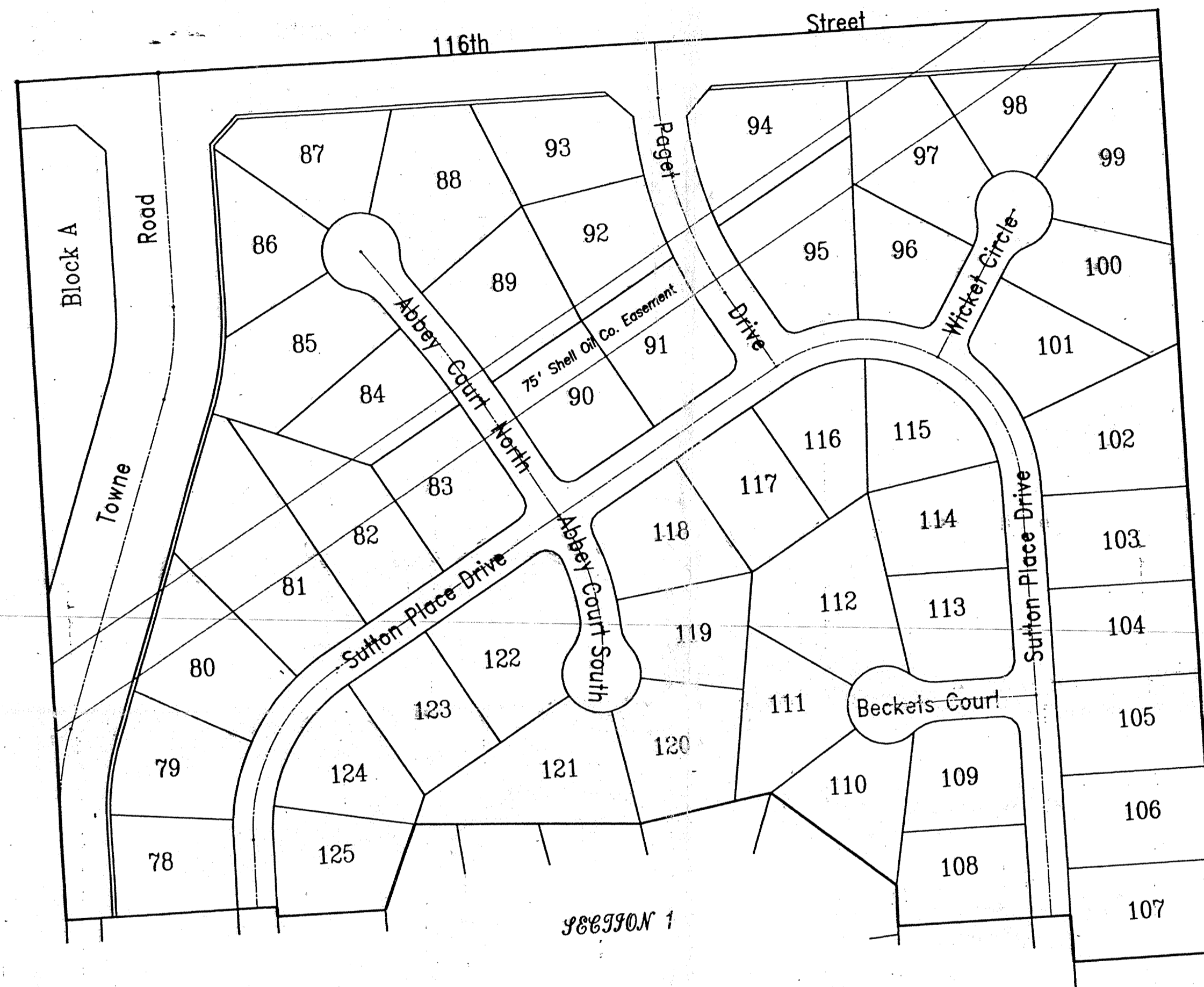
I, the above signed, certify that the record drawing information presented on this sheet was performed under my direct supervision, and that I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

DESIGN DATA
 Area = 36.385 acres
 No. of Lots = 48
 Density = 1.32 lots/ac.

Sutton Place Drive = 2013.58 ft. (0.381 mi)
 Towne Road = 1109.90 ft. (0.210 mi)
 Abbey Court North = 424.79 ft. (0.081 mi)
 Abbey Place Court South = 214.65 ft. (0.041 mi)
 Wicket Circle = 213.40 ft. (0.040 mi)
 Becket Court = 192.74 ft. (0.037 mi)
 Paget Drive = 454.19 ft. (0.086 mi)
 TOTAL = 4623.25 ft. (0.876 mi)



LOCATION MAP



PREPARED FOR:
 LAND INNOVATORS CO., INC.
 234 S. Franklin Road
 Indianapolis, Indiana 46219

PREPARED BY:
 ARTHUR L. KASER
 PROFESSIONAL LAND SURVEYOR
 INDIAN REG. NO. S0529

CERTIFIED BY: _____
 DATE: _____

W. TAYLOR SUMERFORD
 PROFESSIONAL ENGINEER
 INDIAN REG. NO. 11036

CERTIFIED BY: _____
 DATE: _____

SOIL LEGEND

The first capital letter is the initial one of the soil name. The lower case that follows separates mapping units having names that begin with the same letter, except that it does not separate slopes or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are those with a slope range of 0 to 2 percent, or they indicate miscellaneous areas with considerable range of slope. A final number, 1 or 2, in the symbol indicates that the soil is eroded or severely eroded, respectively.



SOILS MAP & LEGEND

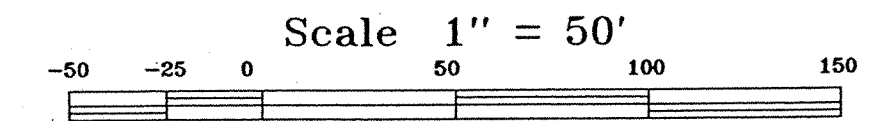
INDEX

No.	DESCRIPTION	No.	DATE	DESCRIPTION
1	COVER SHEET	1	7/6/94	Rev. per Carmel letter of 6/29/94
2	PROPOSED SECONDARY PLAT	2	7/18/94	Rev. per T.A.C. letters.
3	MASTER SANITARY SEWER PLAN	3	7/28/94	Rev. per T.A.C. and Hwy. letter of 7/26/94.
4	SITE GRADING PLAN (WEST) & HORZ. A.B. STORM & SUBSURFACE STUB-OUTS	4	5/06/97	Constr. Rec. Draw. - Storm
5	SITE GRADING PLAN (EAST) & HORZ. A.B. STORM & SUBSURFACE STUB-OUTS	5	6/06/97	Revisions to Sheets 4, 5 & 15 of Record Drawings
6	EROSION CONTROL PLAN (WEST)			
7	EROSION CONTROL PLAN (EAST)			
8	DRAINAGE INLET AREAS (WEST)			
9	DRAINAGE INLET AREAS (EAST)			
10	SUTTON PLACE DRIVE			
11	SUTTON PLACE DR. (CONT.), SUTTON PLACE LN. & PAGET DR.			
12	SUTTON PLACE CT. (NORTH & SOUTH) & SUTTON PLACE CIRCLE			
13	TOWNE ROAD			
14	VERTICAL AS-BUILTS STORM STR'S. 208-211,222-226,228			
15	VERTICAL AS-BUILTS STORM STR'S. 153,200-205,211-213,220,221			
16	VERTICAL AS-BUILTS STORM STR'S. 206,207,212,214-220,227			
17	ENTRANCE DETAILS			
18	INTERSECTION & CUL-DE-SAC DETAILS			
19	MISCELLANEOUS STANDARD DETAILS			
20	MISCELLANEOUS STANDARD DETAILS cont.			
21	EROSION CONTROL DETAILS & SPECIFICATIONS			
22	STANDARD SPECIFICATIONS			
23	Cut / Fill Map (East)			
24	Cut / Fill Map (West)			

REVISIONS

Name	Delta	Radius	Length	Bearing	Chord	Tangent
C-1	D = 59°18'30"	250.00	258.78	N 29°39'15" E	247.38	142.33
C-2	D = 120°41'30"	201.32	424.07	S 60°20'45" E	349.90	353.61
C-3	D = 62°13'11"	201.32	218.62	S 89°34'54" E	208.04	121.49
C-4	D = 50°29'18"	201.32	205.45	S 29°14'09" E	196.65	112.68
C-5	D = 30°41'30"	500.00	267.83	S 15°20'45" E	264.64	137.21
C-6	D = 6°01'34"	1000.00	105.18	S 33°42'17" E	105.13	52.64
C-7	D = 38°56'22"	315.57	214.65	S 11°12'18" E	210.54	111.67

HORZ. A.B. LOCATION of



RECORD DRAWING LEGEND

- ⊙ = HORZ. A.B. LOCATION of STORM INLET
- = HORZ. A.B. LOCATION of SOLID STORM MANHOLE
- ⊙ = HORZ. A.B. LOCATION of SUBSURFACE STUB-OUT
- = HORZ. A.B. LOCATION of SUBSURFACE RISER
- = DISTANCE ALONG LOT LINE AND OUT FROM NEAREST LOT CORNER TO RISER OR STUB-OUT

LEGEND

- ▭ RESIDENTIAL COLLECTOR STREET
- ▭ 4" CONC. WALK
- ▭ FULL DEPTH GRANULAR BACKFILL
- ▭ PROPOSED SANITARY SEWER & MH
- ▭ PROPOSED 6" LATERAL
- ▭ PROPOSED STORM SEWER & INLET
- ▭ EXISTING SEWER
- ▭ SIDEWALK CURB RAMPS
- ▭ 6" Sub-Surface Drain w/ Lot Connection (Invert elev. shown)
- ▭ Proposed Fire Hydrant (Located per approved Primary Plat)
- ▭ Existing Water Main

BENCHMARKS:

BM: Top of storm manhole casting 995 feet east of Towne Road and 40' south of 116th Street. Elev. = 893.54
 TBM: PK Nail in Power Pole No. 471013 495 feet south of 116th Street along the east side of Towne Road. Elev. = 894.14

CONTRACTOR TO CONTACT SHELL OIL CO. AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
 CONTACT: DICK WADELL at 870-0122 or 870-0131

"RECORD DRAWING" CERTIFICATION

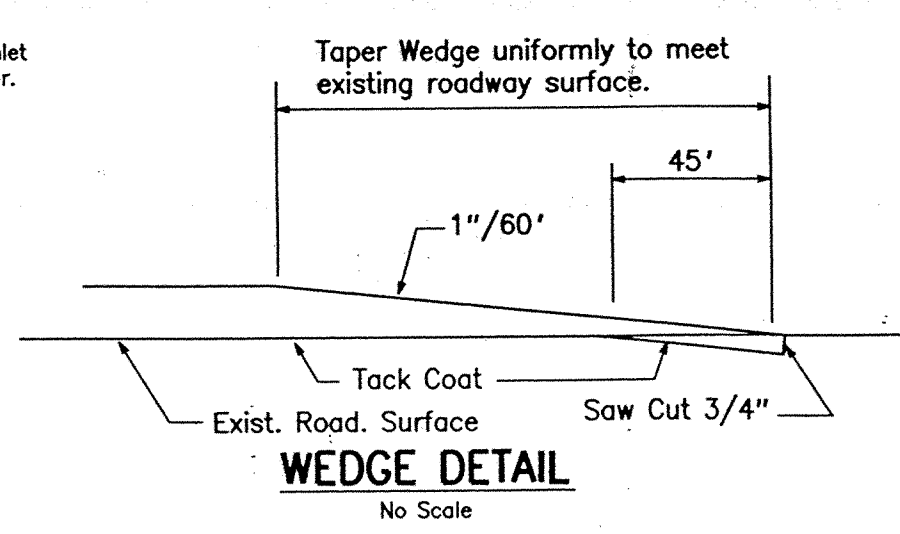
CERTIFIED BY: *Arthur L. Kaser*
 Arthur L. Kaser, P.L.S. 6/19/97
 Evergreen Planners, Inc.
 234 South Franklin Road
 Indianapolis, Indiana 46219

I, the above signed, certify that the record drawing information presented on this sheet was performed under my direct supervision. I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

BEGIN CONST. @ 1+77.16 ELEV. = 886.61

Sta. 0+00 Towne Road Begin New Pvm't. Const. Match Existing Pvm't. Elev. = 890.09

Str. No. 229 Construct new 3' x 3' Yard Inlet over existing 18" Storm Sewer. TC = 887.94 IE = 885.94 A.B. T.C. = 888.10 A.B. Inv. = 884.86



Sta. 12+09.90 = Q 116th Street Elev. = 896.60

This area to be dedicated to the Hamilton County Highway Dept. as additional future right of way.

Existing Pvm't. to be Removed and area to be graded to drain into existing and proposed inlets.

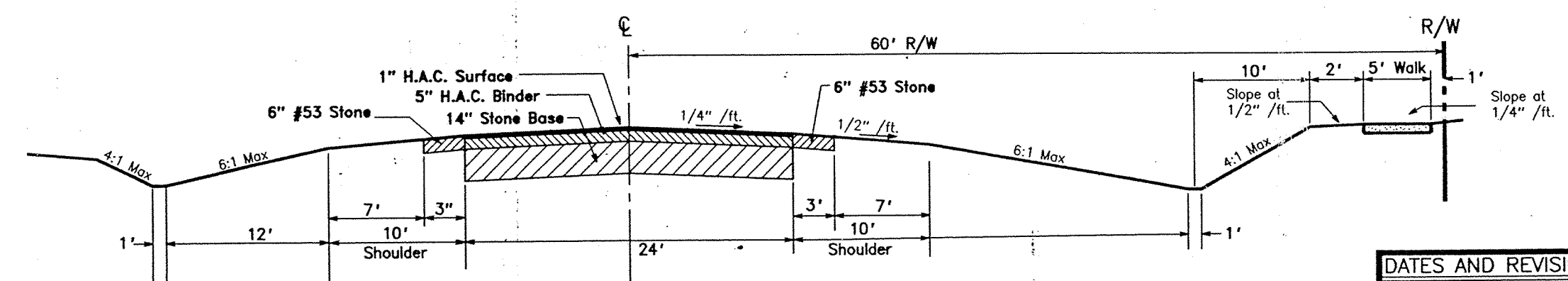
SEE SHEETS 14, 15 & 16 of 21 for VERTICAL AS-BUILT INFORMATION

CONSTRUCTION RECORD DRAWING
 HORZ. STORM & SUBSURFACE STUB-OUTS

DATES AND REVISIONS		TITLE	
6/06/97	Revise Record Drawing per Hamilton Co. Surveyor's Office LEM	Site Grading Plan (West) for Sutton Place Section 2	
5/06/97	Constr. Record Drawing - Storm(horz.)	Clay Township, Hamilton County, Indiana	
8-19-94	Added Shell Oil Pipelines and revised storm sewer.	DESIGN BY	DRAWN BY
7-28-94	Rev. per T.A.C. comments and Hwy. letter of 7-26-94	ALK	LEM
7-18-94	Rev. per T.A.C. letters.	CHECKED	APPROVED
7-6-94	Rev. per Carmel letter of 6-29-94		

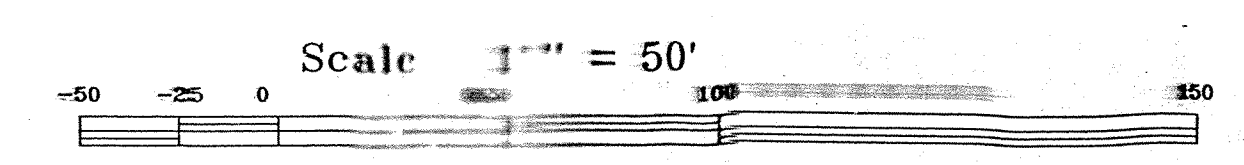
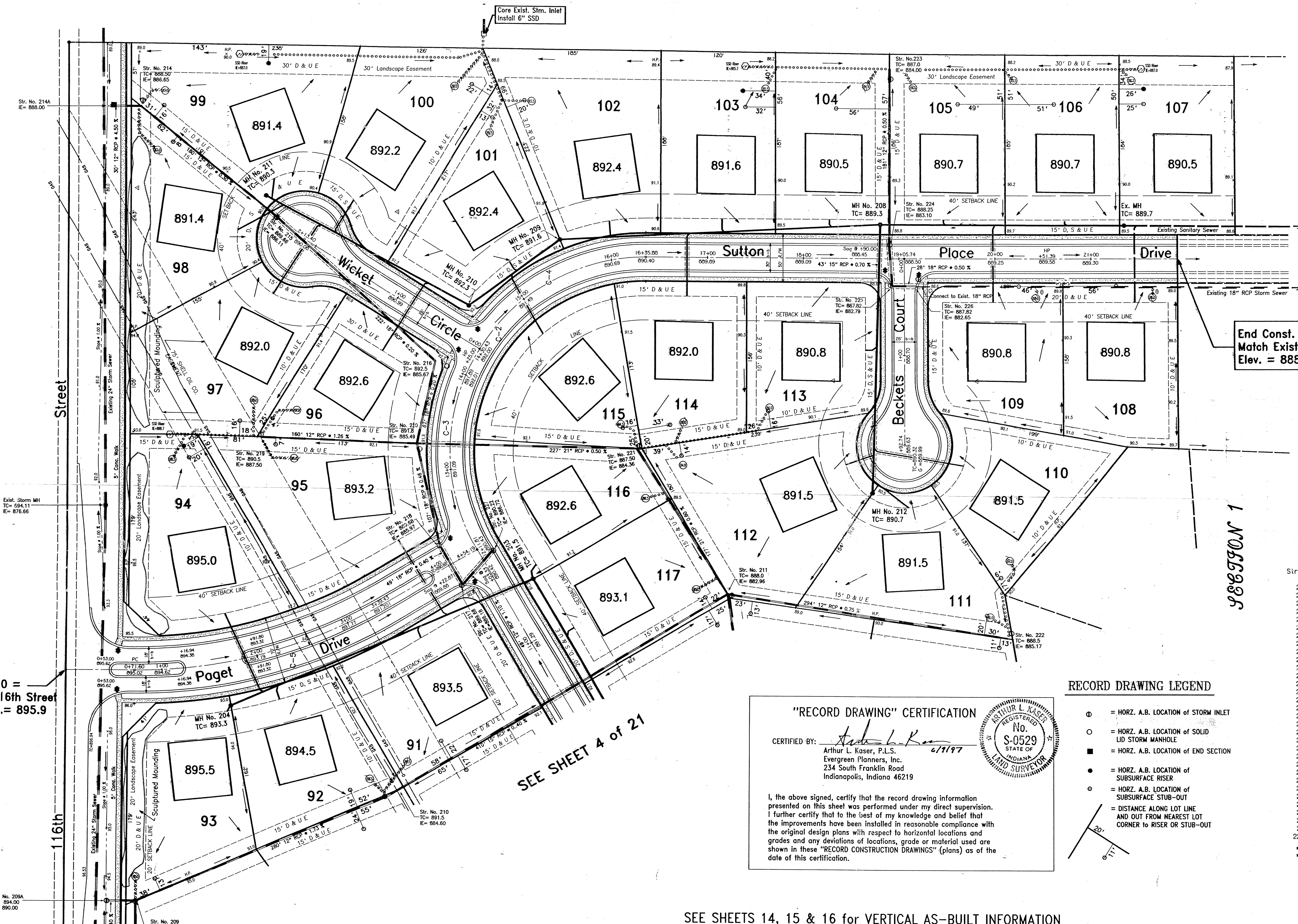
Evergreen Planners, Inc.
 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219
 317/353-6161

DATE: May, 1994
 JOB NO.: 90-08-2
 SCALE: 1" = 50'
 SHEET NO.: 4 of 21



Typical Towne Road Section

Scale: Horz. 1" = 10'
 Vert. 1" = 5'



- LEGEND**
- STREET
 - 4" CONC. WALK
 - FILL DEPTH GRANULAR BACKFILL
 - PROPOSED SANITARY SEWER & MH
 - PROPOSED 6" LATERAL
 - PROPOSED STORM SEWER & INLET
 - EXISTING SEWER
 - SIDEWALK CURB RAMPS
 - 6" SUB-SURFACE DRAIN
 - COMM. 6" SSD LOT CONNECTION
 - PROPOSED FIRE HYDRANT

End Const. @ 21+90.74
Match Exist. Pvm't.
Elev. = 888.67

- BENCHMARKS:**
- BM: Top of storm manhole casting 995 feet east of Towne Road and of 116th Street. Elev. = 893.54
 - TBM: PK Nail in Power Pole No. 47 1013 495 feet south of 1116th Street on the east side of Towne Road. Elev. = 894.14

STORM STRUCTURE CHART

Str. No.	Type	Castings No. *	T.C. E.I.	Invert E.I.
200	Yard Inlet	R-4342	889.00	889.00
201	Yard Inlet	R-4342	889.00	889.00
202	Yard Inlet	R-4342	888.40	888.40
203	Curb Inlet	R-3501-N	888.82	888.82
204	Curb Inlet	R-3501-N	888.82	888.82
205	Solid Lid Manhole	R-1077-A	890.00	890.00
206	Curb Inlet	R-3501-N	891.55	891.55
207	Curb Inlet	R-3501-N	891.55	891.55
208	Yard Inlet	R-4342	893.50	893.50
209	Yard Inlet	R-4342	894.00	894.00
209A	Yard Inlet	R-4342	894.00	894.00
210	Yard Inlet	R-4342	891.50	891.50
211	Yard Inlet	R-4342	888.00	888.00
212	Solid Lid Manhole	R-1077-A	891.20	891.20
213	Curb Inlet	R-3501-N	889.00	889.00
214	Yard Inlet	R-4342	888.50	888.50
214A	PCESW***			890.00
215	Curb Inlet	R-3501-N	889.66	889.66
216	Solid Lid Manhole	R-1077-A	892.50	892.50
217	Curb Inlet	R-3501-N	889.68	889.68
218	Curb Inlet	R-3501-N	889.68	889.68
219	Yard Inlet	R-4342	890.50	890.50
220	Solid Lid Manhole	R-1077-A	891.80	891.80
221	Yard Inlet	R-4342	887.50	887.50
222	Yard Inlet	R-4342	888.50	888.50
223	Yard Inlet	R-4342	887.00	887.00
224	Curb Inlet	R-3501-N	888.25	888.25
225	Curb Inlet	R-3501-N	887.82	887.82
226	Curb Inlet	R-3501-N	887.82	887.82
227	Curb Inlet	R-3501-N	890.22	890.22
228	Yard Inlet	R-4342	893.00	893.00
229	Yard Inlet	R-4342	887.00	887.00

* Neenah Cat. No. or Equal
** Precast-Concrete End Section w/ Slope-wall

RECORD DRAWING LEGEND

- = HORIZ. A.B. LOCATION OF STORM INLET
- = HORIZ. A.B. LOCATION OF SOLID LID STORM MANHOLE
- = HORIZ. A.B. LOCATION OF END SECTION
- = HORIZ. A.B. LOCATION OF SUBSURFACE RISER
- = HORIZ. A.B. LOCATION OF SUBSURFACE STUB-OUT
- = DISTANCE ALONG LOT LINE AND OUT FROM NEAREST LOT CORNER TO RISER OR STUB-OUT

"RECORD DRAWING" CERTIFICATION

CERTIFIED BY: *Arthur L. Kaser* 6/11/97

Arthur L. Kaser, P.L.S.
Evergreen Planners, Inc.
234 South Franklin Road
Indianapolis, Indiana 46219

I, the above signed, certify that the record drawing information presented on this sheet was performed under my direct supervision. I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

SEE SHEET 4 of 21

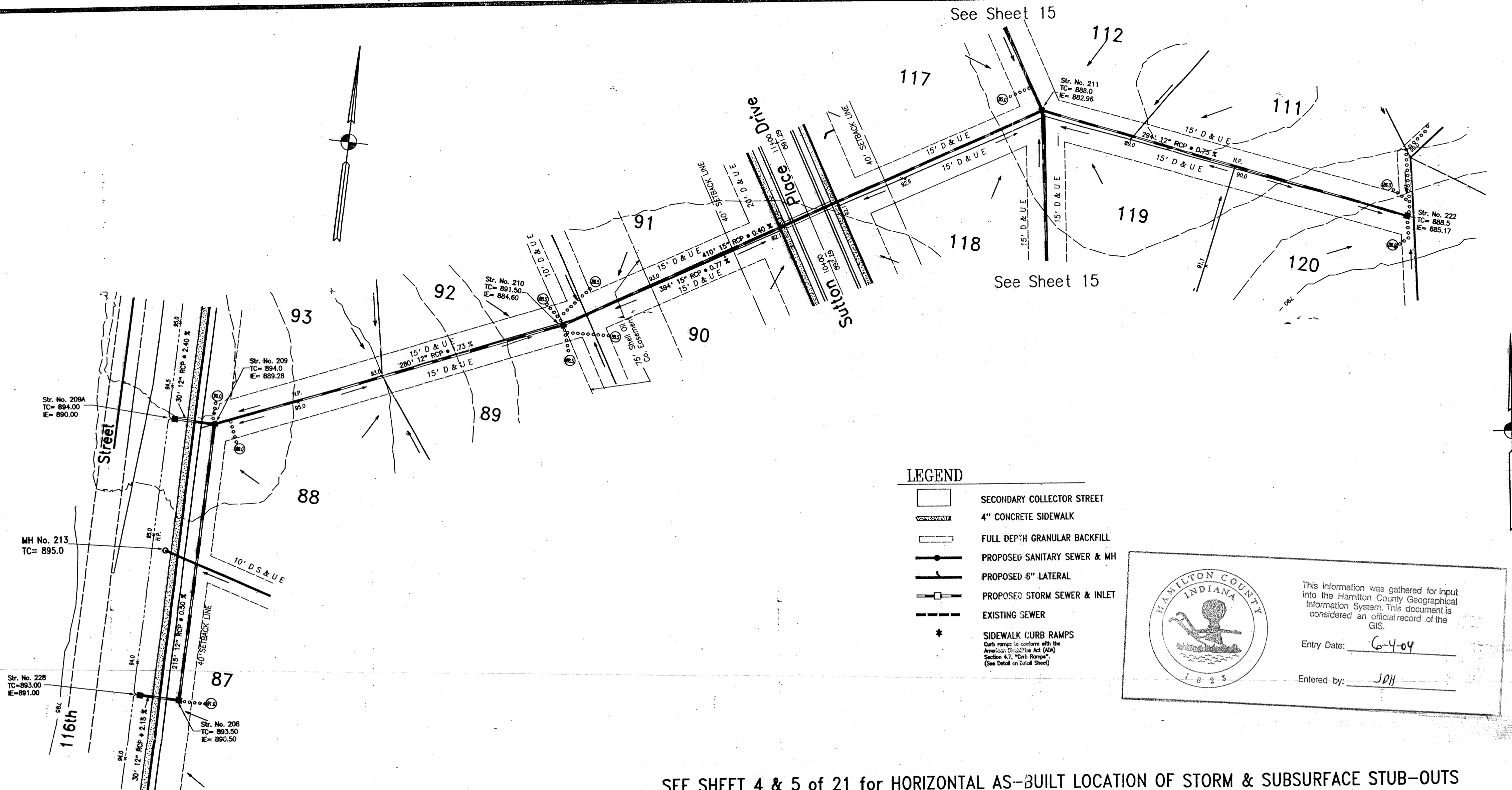
SEE SHEETS 14, 15 & 16 for VERTICAL AS-BUILT INFORMATION

Name	Delta	Radius	Length	Bearing	Chord	Tangent
C-1	D = 59°18'30"	250.00	258.78	N 29°39'15" E	247.38	142.33
C-2	D = 120°41'30"	201.32	424.07	S 80°20'45" E	349.90	353.61
C-3	D = 62°13'11"	201.32	218.82	S 89°34'54" E	208.04	121.49
C-4	D = 58°28'18"	201.32	205.45	S 29°14'09" E	196.65	112.68
C-5	D = 30°41'30"	500.00	287.83	S 15°20'45" E	264.64	137.21
C-6	D = 6°01'34"	1000.00	105.18	S 33°42'17" E	105.13	52.64
C-7	D = 30°48'22"	315.57	214.85	S 11°12'18" E	210.54	111.67

**CONSTRUCTION RECORD DRAWING
HORIZONTAL STORM & SUBSURFACE STUB-OUTS**

DATES AND REVISIONS	TITLE	DATE
6/06/97 Revise Record Drawing as per Hamilton Co. Surveyor's Office	Site Grading Plan (East) for Sutton Place Section 2	June, 1997
5/06/97 Const. Record Drawing - Storm(horz.)	Clay Township, Hamilton County, Indiana	JOB NO. 90-08
8-19-94 Added Shell Oil Pipelines and revised storm sewer.	DESIGN BY ALK	SCALE 1" = 50'
7-28-94 Rev. per TAC Comments and Hwy. letter of 7-26-94.	DRAWN BY ALK	SHEET NO. 5
7-18-94 Rev. per TAC letters	CHECKED	
7-6-94 Rev. per Carmel letter of 6-29-94	APPROVED	

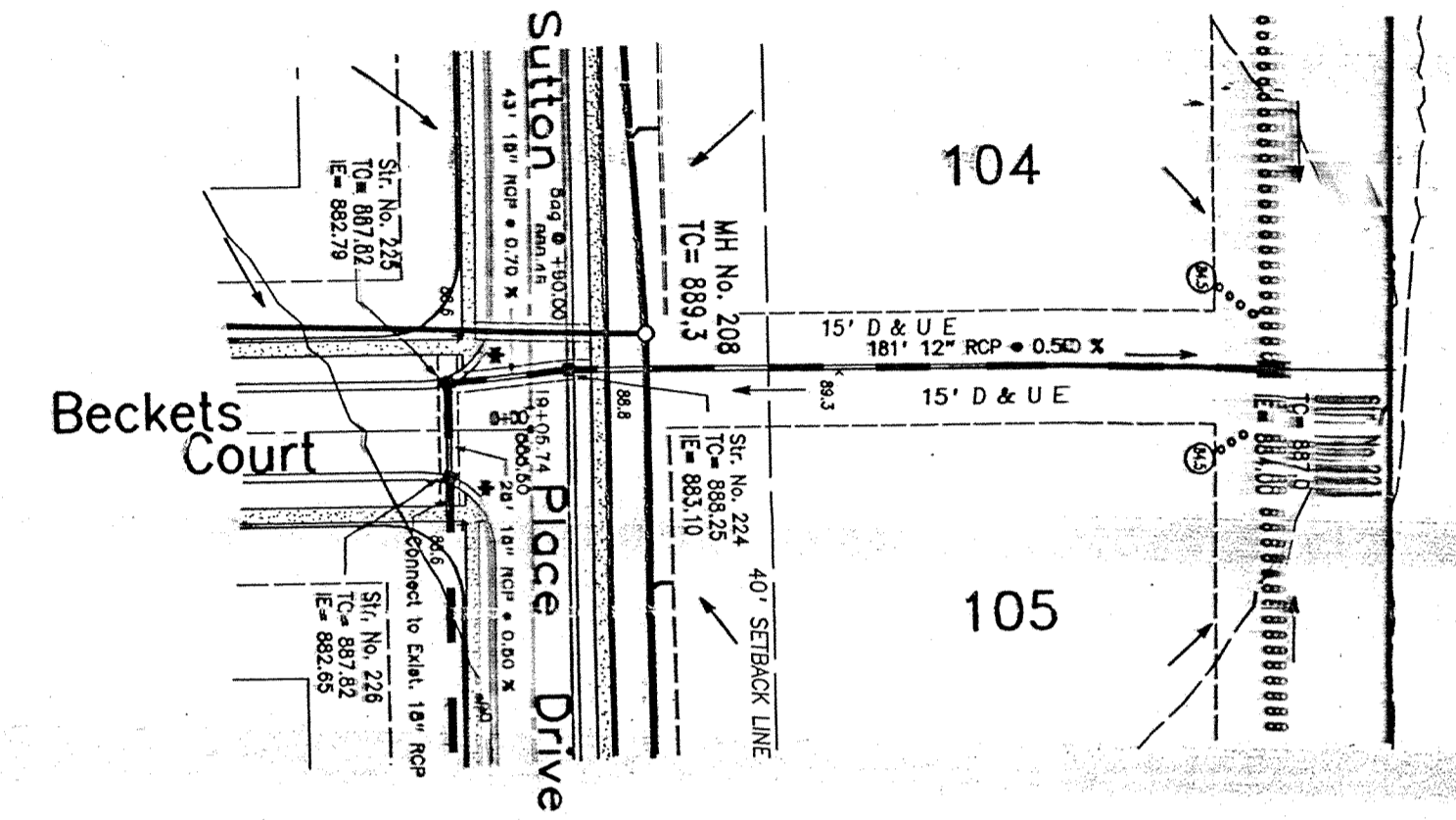
Evergreen
Planners, Inc.
234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219
317/353-6161



"RECORD DRAWING" CERTIFICATION

CERTIFIED BY: *Arthur L. Kasser*
 Arthur L. Kasser, P.L.S.
 Evergreen Planners, Inc.
 234 South Franklin Road
 Indianapolis, Indiana 46219

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- LEGEND**
- SECONDARY COLLECTOR STREET
 - 4" CONCRETE SIDEWALK
 - FULL DEPTH GRANULAR BACKFILL
 - PROPOSED SANITARY SEWER & MH
 - PROPOSED 6" LATERAL
 - PROPOSED STORM SEWER & INLET
 - EXISTING SEWER
 - * SIDEWALK CURB RAMPS
Call ramp to conform with the Americans with Disabilities Act (ADA) Section 4.3, "Ramp Ramps" (See Detail on this sheet)

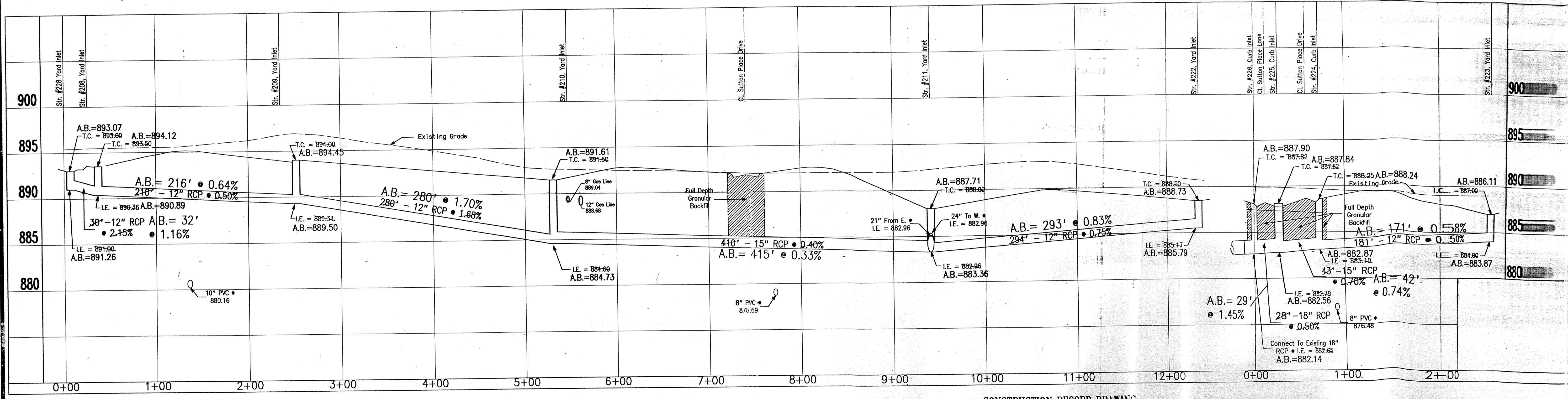
HAMILTON COUNTY INDIANA

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: 6-4-04

Entered by: JDH

SEE SHEET 4 & 5 of 21 for HORIZONTAL AS-BUILT LOCATION OF STORM & SUBSURFACE STUB-OUTS



CONSTRUCTION RECORD DRAWING Storm Structure 208-211,222-226,228 Sutton Place Section 2 Clay Township, Hamilton County, Indiana		 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161	DATE: June, 1994 JOB NO.: 90-02-2 SCALE: Horiz. = 1" = 50' Vert. = 1" = 5' SHEET NO.: 14 of 21
DATES AND REVISIONS 5/05/97 Constr. Record Draw. - Storm 8-19-94 Added Shell Oil Pipeline and revised storm sewer. 7-28-94 Rev. per T.A.C. and Hwy. letter of 7-26-94	DESIGN BY: ALK DRAWN BY: RCS CHECKED: [] APPROVED: []		

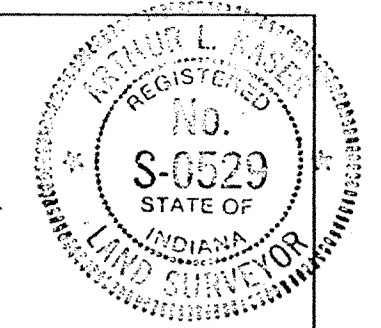
work/sutton/sec2/storm (50)

"RECORD DRAWING" CERTIFICATION

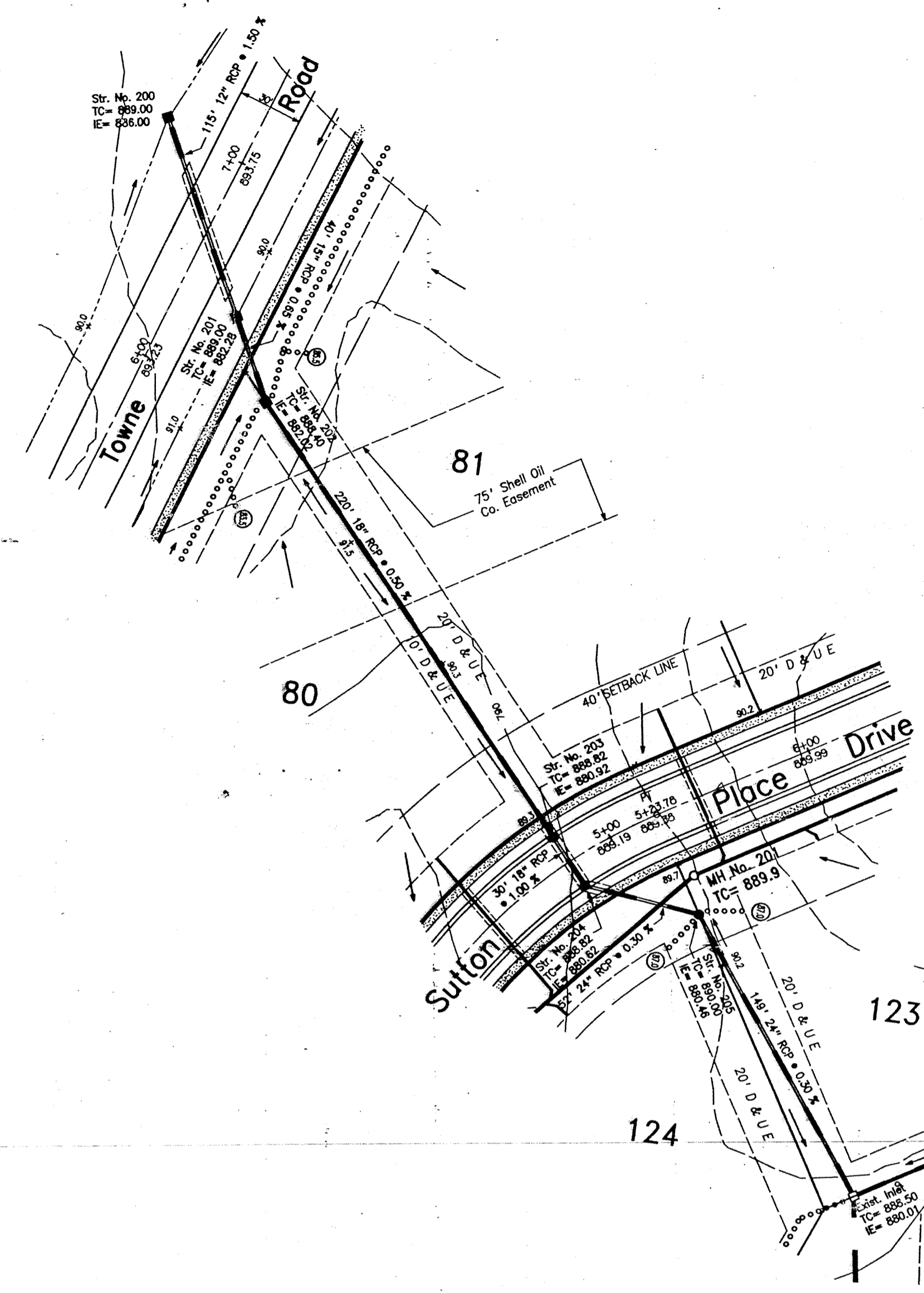
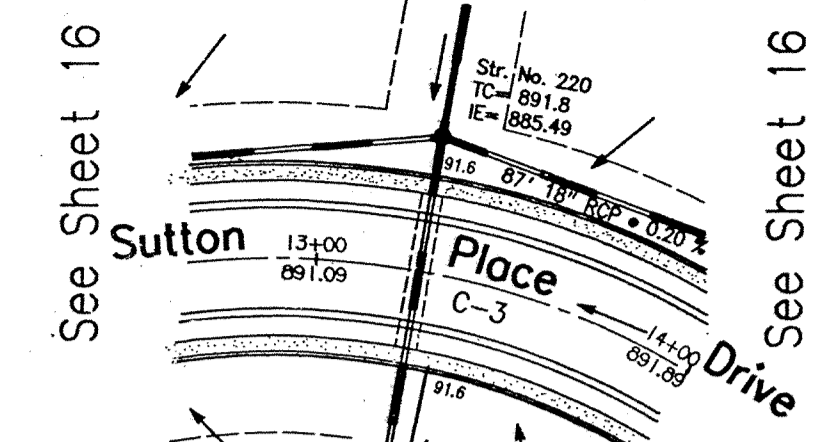
CERTIFIED BY: *Arthur L. Kaser*
 Arthur L. Kaser, P.L.S.
 Evergreen Planners, Inc.
 234 South Franklin Road
 Indianapolis, Indiana 46219

6-7-97

I, the above signed, certify that the record drawing information presented on this sheet was performed under my direct supervision. I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.



See Sheet 16



See Sheet 14

See Sheet 16

See Sheet 14

See Sheet 14

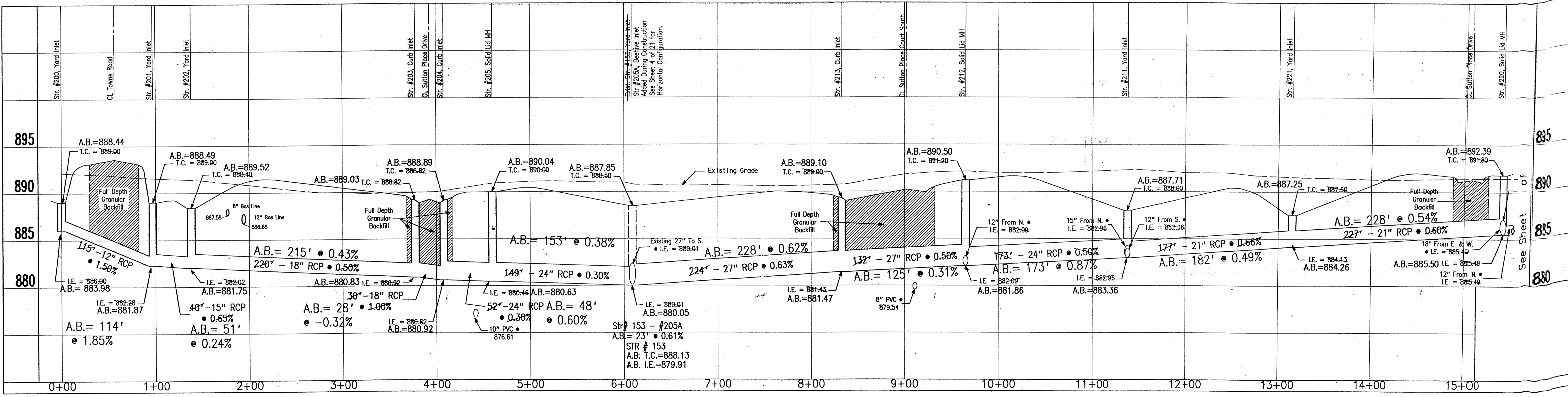
LEGEND

- SECONDARY COLLECTOR STREET
- 4" CONCRETE SIDEWALK
- FULL DEPTH GRANULAR BACKFILL
- PROPOSED SANITARY SEWER & MH
- PROPOSED 6" LATERAL
- PROPOSED STORM SEWER & INLET
- EXISTING SEWER
- * SIDEWALK CURB RAMPS
Curb ramps in conformance with the American Disabilities Act (ADA) Section 4.3.7.2 (See Detail on Detail Sheet)

This information was gathered for input into the Hamilton County Geographical Information System. The government is considered an authorized user of the GIS.

Entry Date: 6-4-97
 Entered by: JDH

SEE SHEET 4 & 5 of 21 for HORIZONTAL AS-BUILT LOCATION of STORM & SUBSURFACE STUB-OUTS



DATES AND REVISIONS		TITLE	
6/06/97	Revise Str. #205 of Record Drawing	Storm Str's. (Exist.) 153,200-205,211-213,220,221 Sutton Place Section 2	
5/06/97	Const. Record Drawing - Storm	DESIGN BY	DRAWN BY
8-19-94	Added Shell Oil Pipeline and revised storm sewer.	ALK	RCS
7-28-94	Rev. per T.A.C. and Hwy. letter of 7-28-94	CHECKED	APPROVED

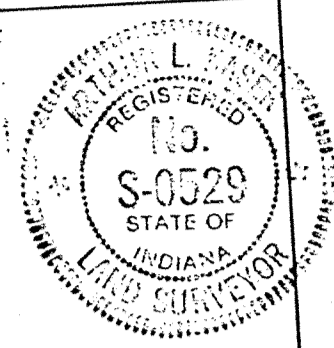
Evergreen
 Planners, Inc.
 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219
 317/353-6161

DATE	June, 1997
JOB NO.	90-08-2
SCALE	Horiz. 1" = 40' Vert. 1" = 5'
SHEET NO.	15 of 21

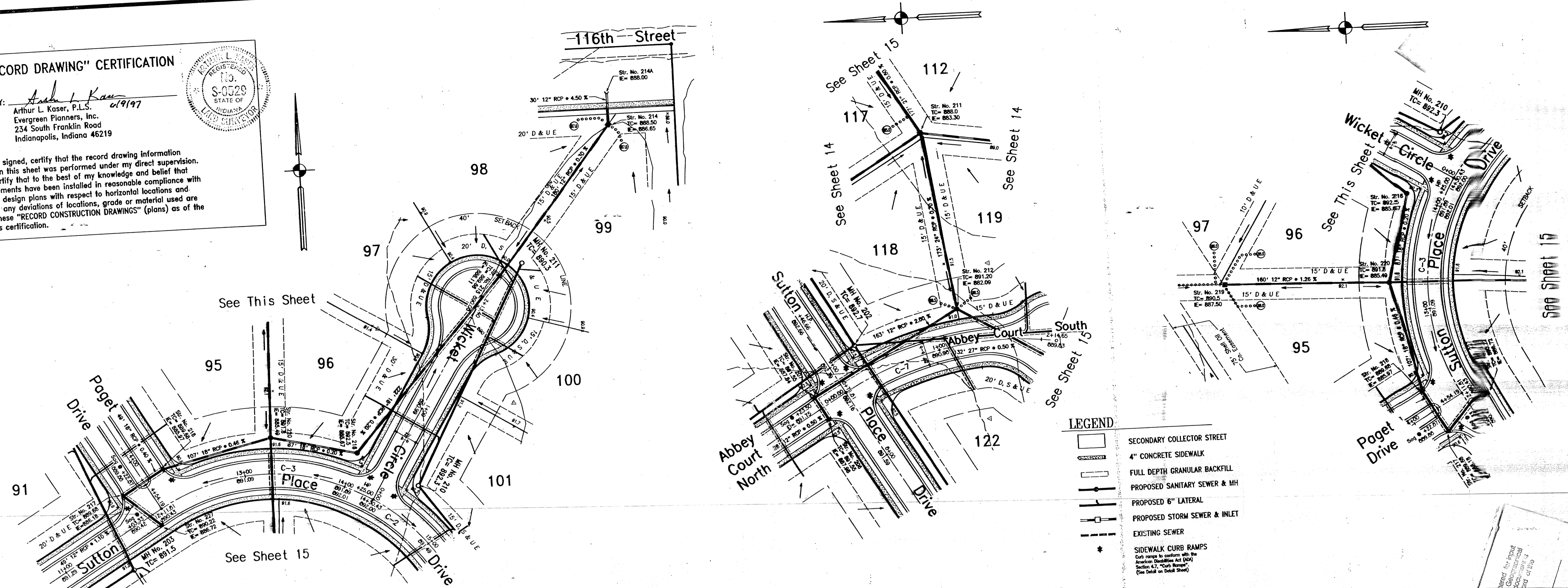
Works/sutton/sec2/storm2 (50)

"RECORD DRAWING" CERTIFICATION

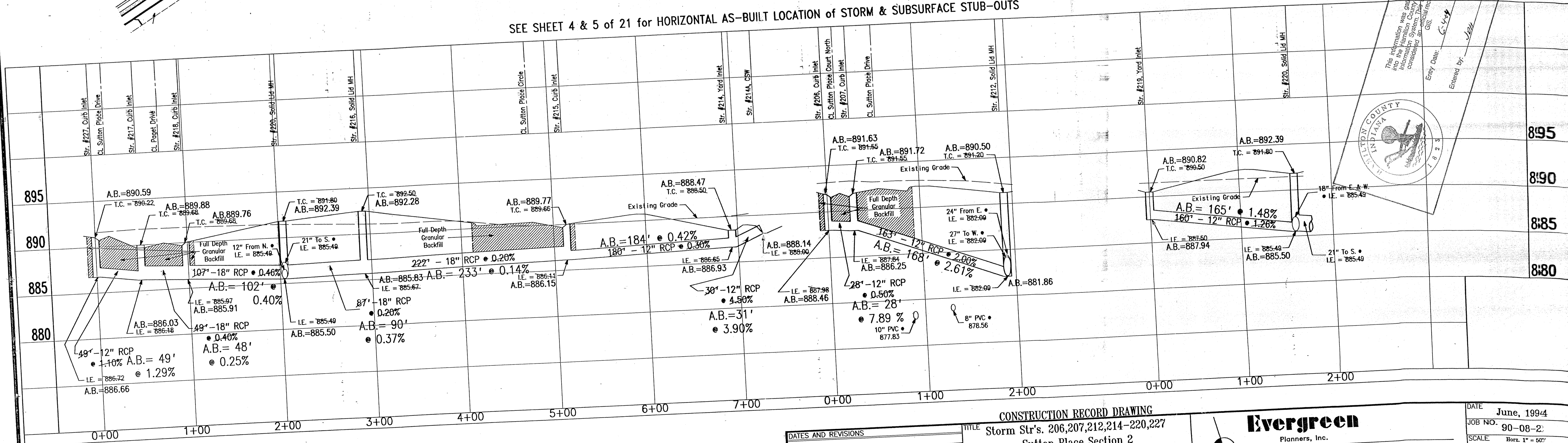
CERTIFIED BY: *Arthur L. Kaser*
 Arthur L. Kaser, P.L.S.
 Evergreen Planners, Inc.
 234 South Franklin Road
 Indianapolis, Indiana 46219



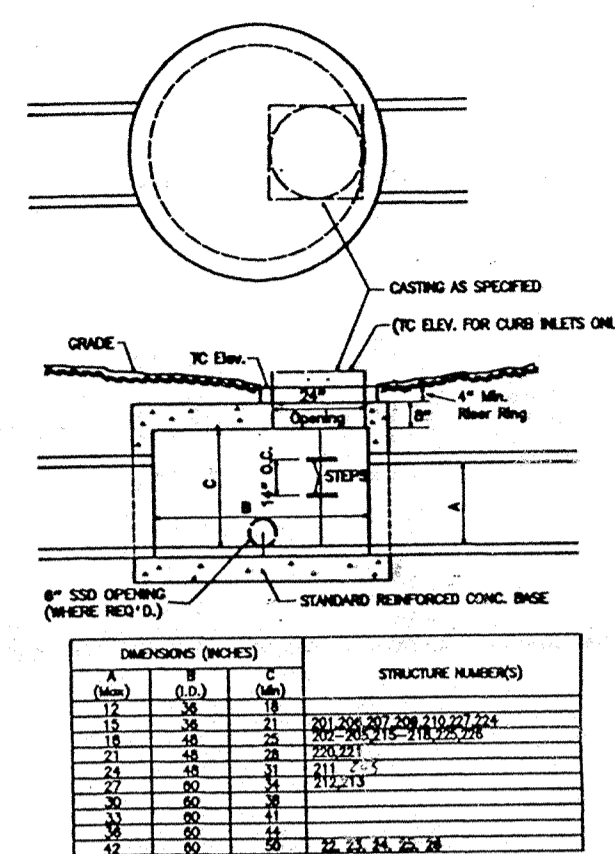
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SEE SHEET 4 & 5 of 21 for HORIZONTAL AS-BUILT LOCATION of STORM & SUBSURFACE STUB-OUTS

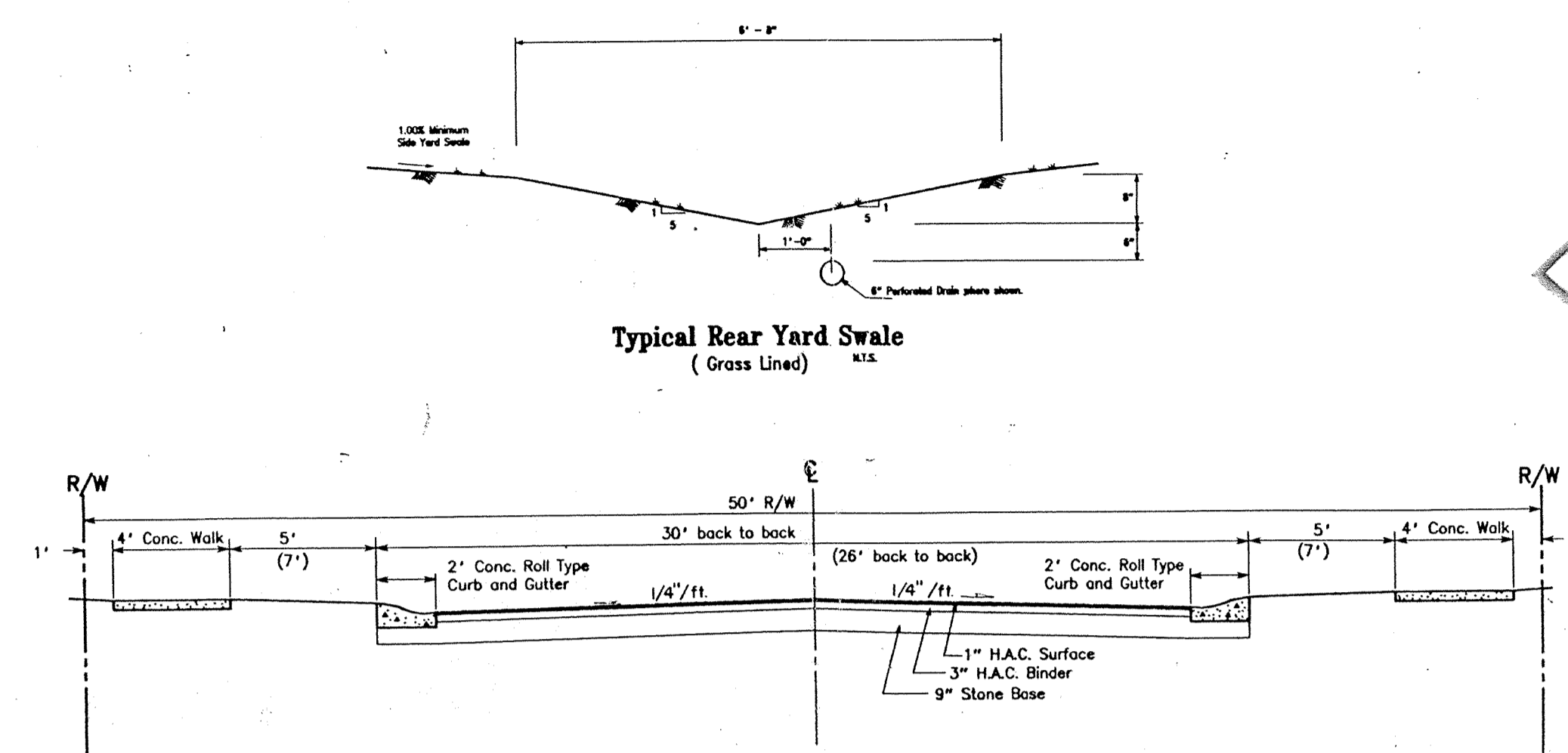


CONSTRUCTION RECORD DRAWING TITLE: Storm Str's. 206,207,212,214-220,227 Location: Clay Township, Hamilton County, Indiana DESIGN BY: ALK DRAWN BY: RGS CHECKED: [] APPROVED: []		DATE: June, 1994 JOB NO.: 90-08-2 SCALE: Horiz. 1" = 50' Vert. 1" = 5' SHEET NO.: 16 of 21
Evergreen Planners, Inc. 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161		



STPL MANHOLE / INLET DETAIL

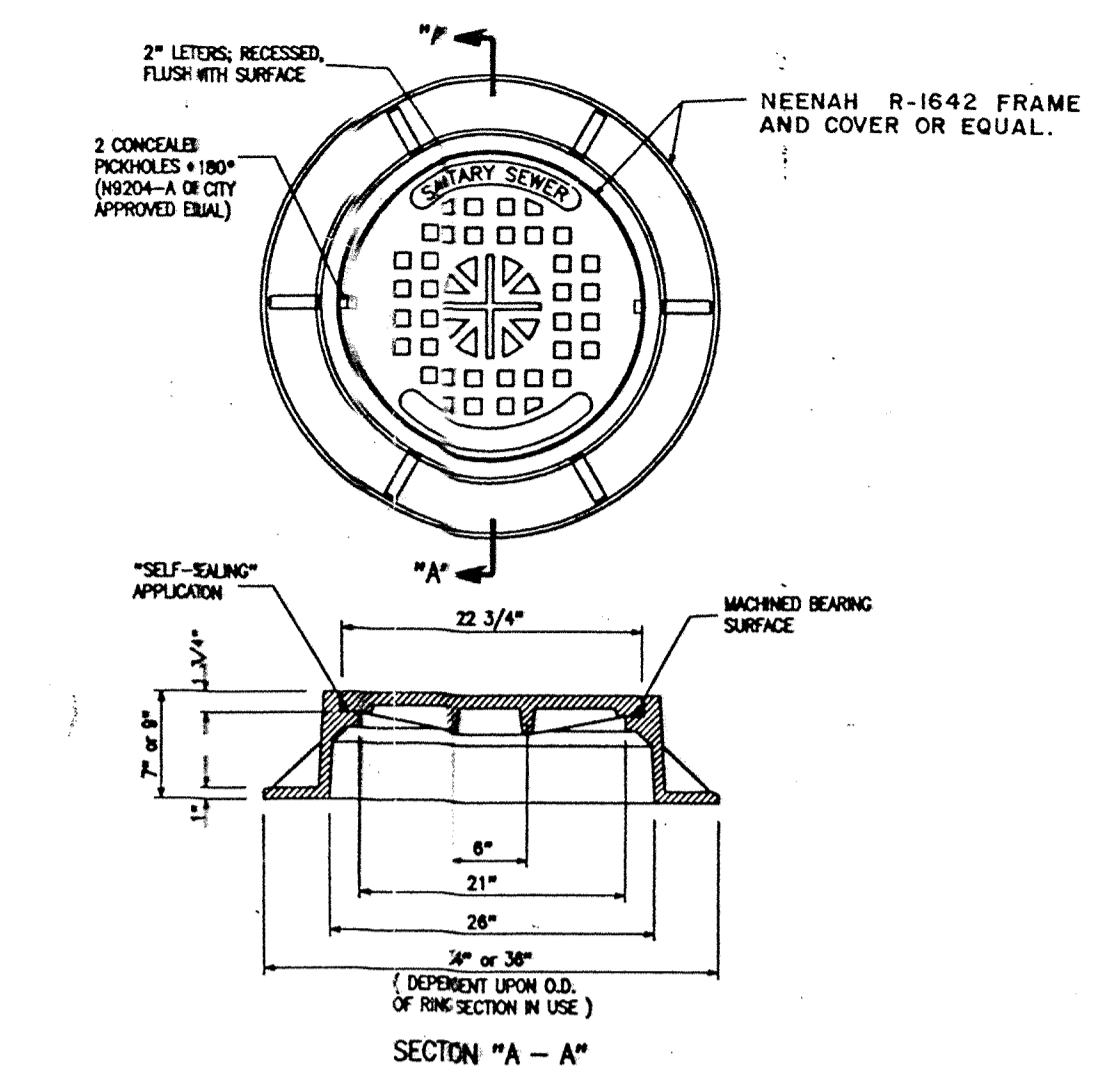
Steps to be added if "C" is greater than 36". Space at 14" O.C.



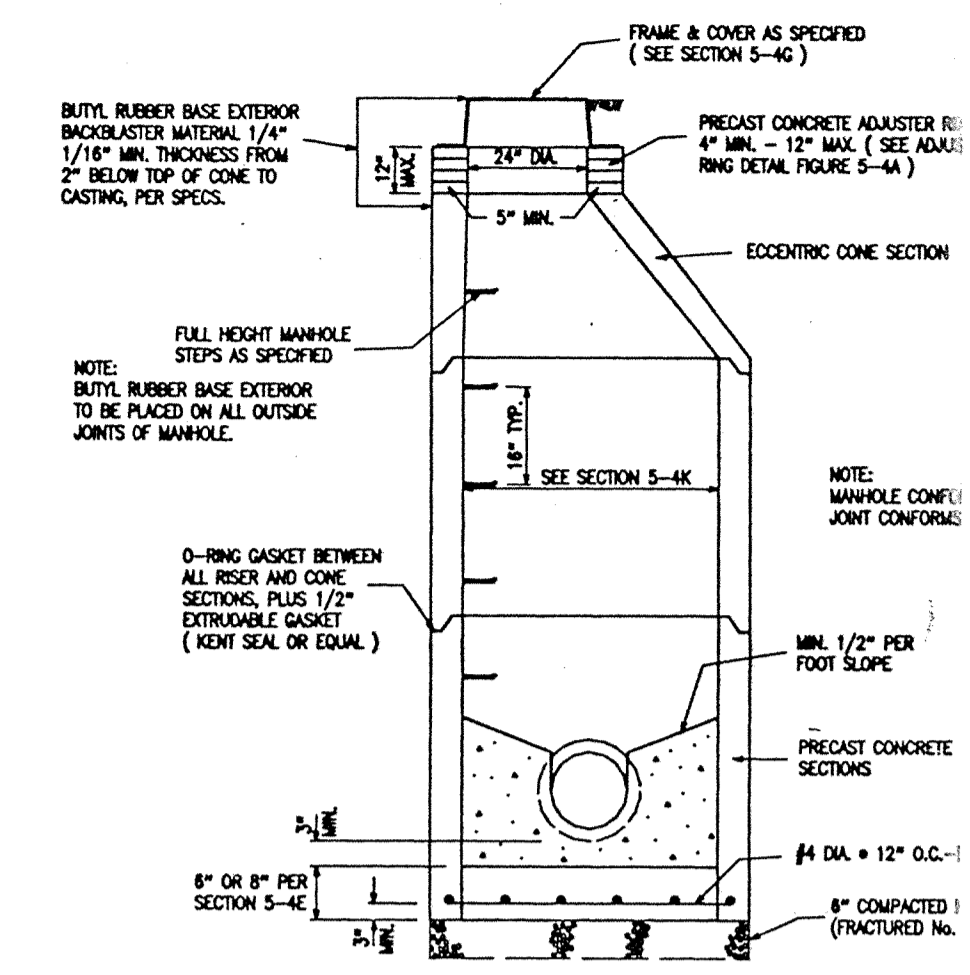
Typical Rear Yard Swale (Cross Section)

Typical Local Asphalt Street Section

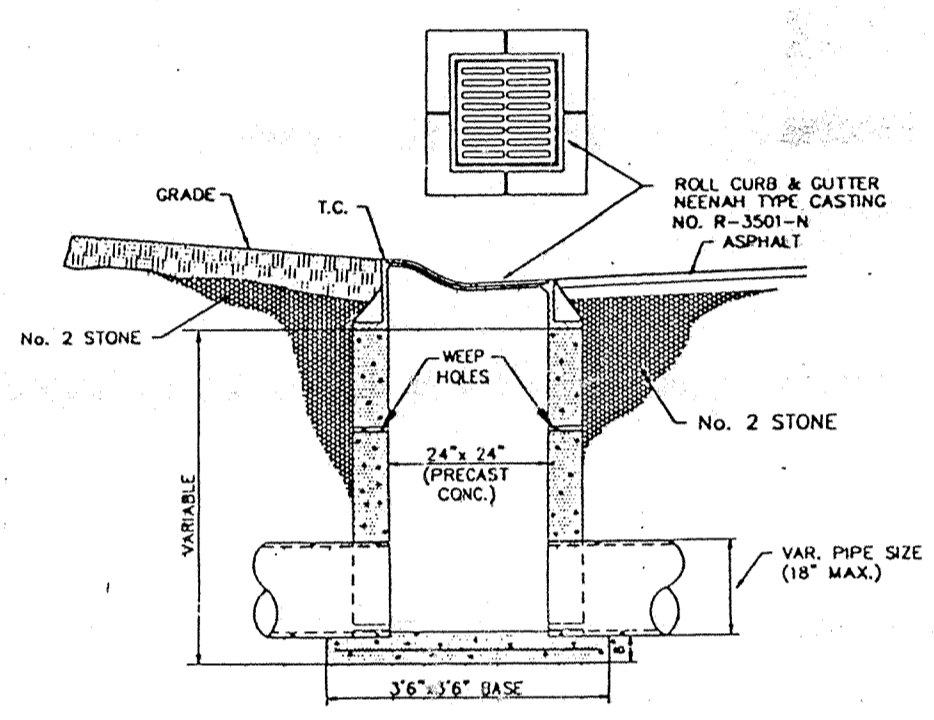
Scale: Horiz. 1"=5'
Vert. 1"=5'



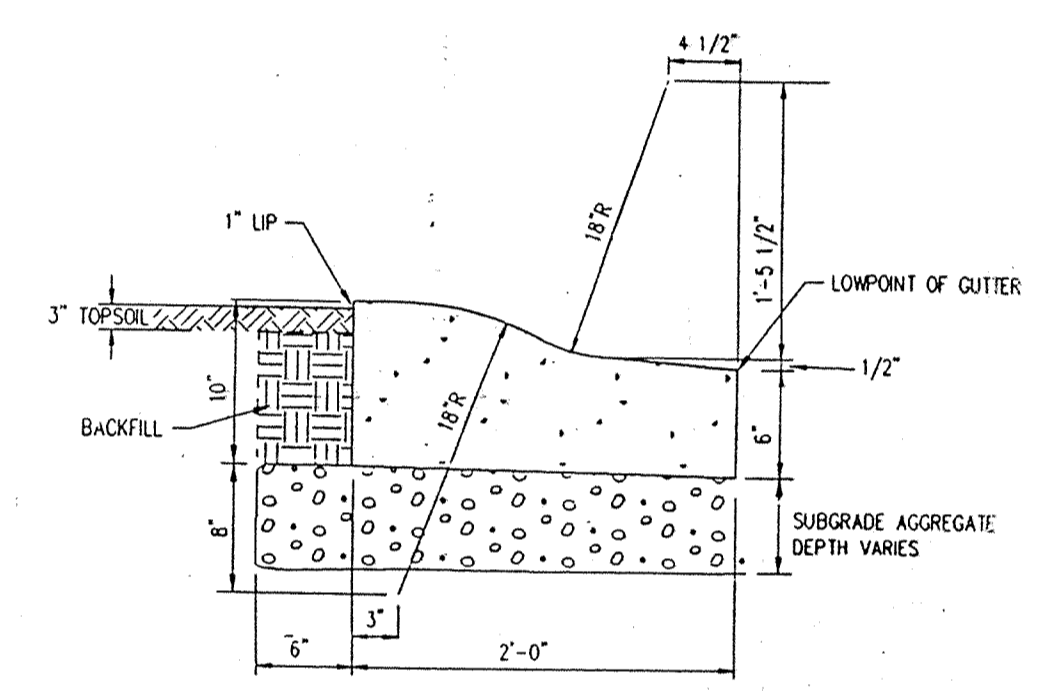
SANITARY SEWER MANHOLE FRAME & COVER STANDARD MANHOLE



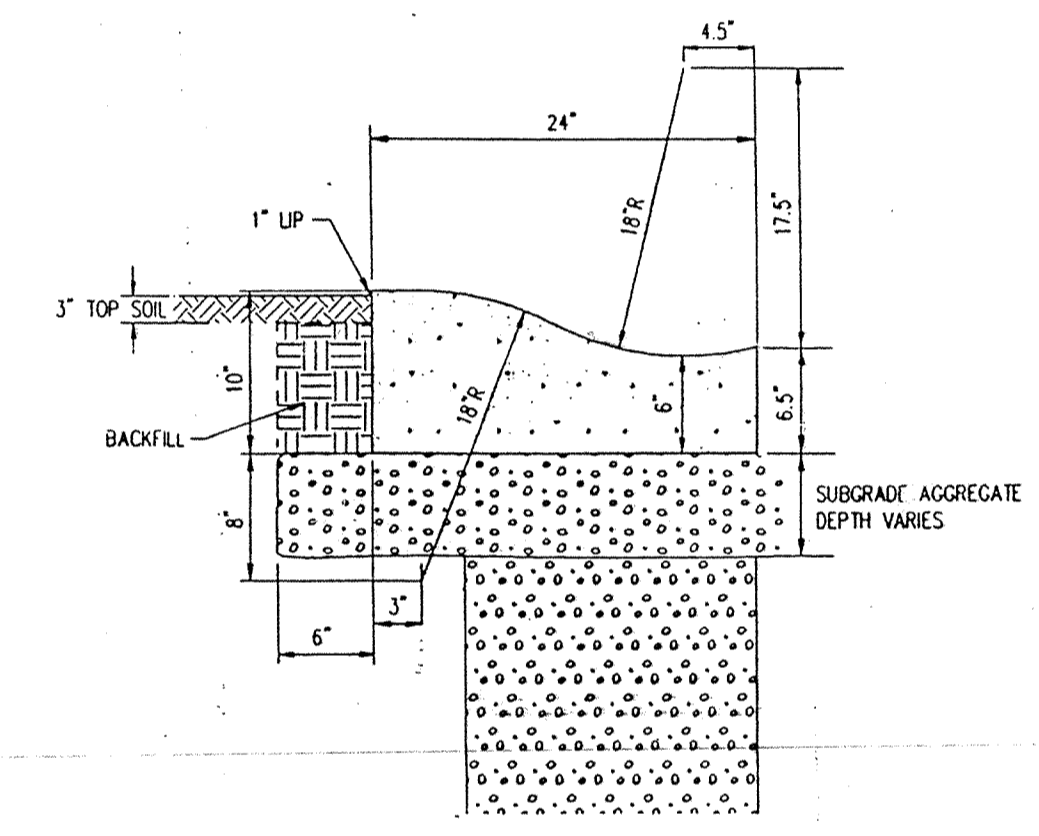
STANDARD MANHOLE FOR PIPE SIZES 8" thru 24" (Str)



ROLL CURB INLET



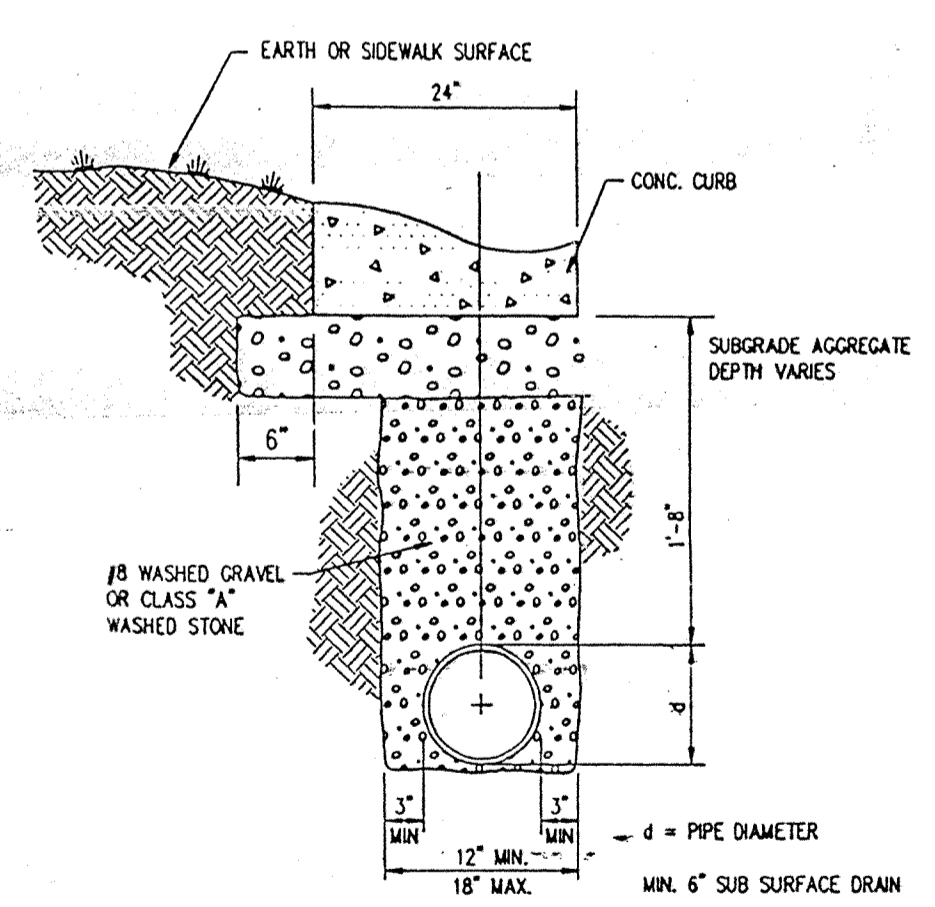
NOTES:
Expansion joints are required at Storm Inlets.
Contraction joints should be installed at 10' spacings.
Spacing shall be 5' on curve radii.
Contraction joints shall be tooled or sawn in continuously poured curbs to a depth of 1/2" min.



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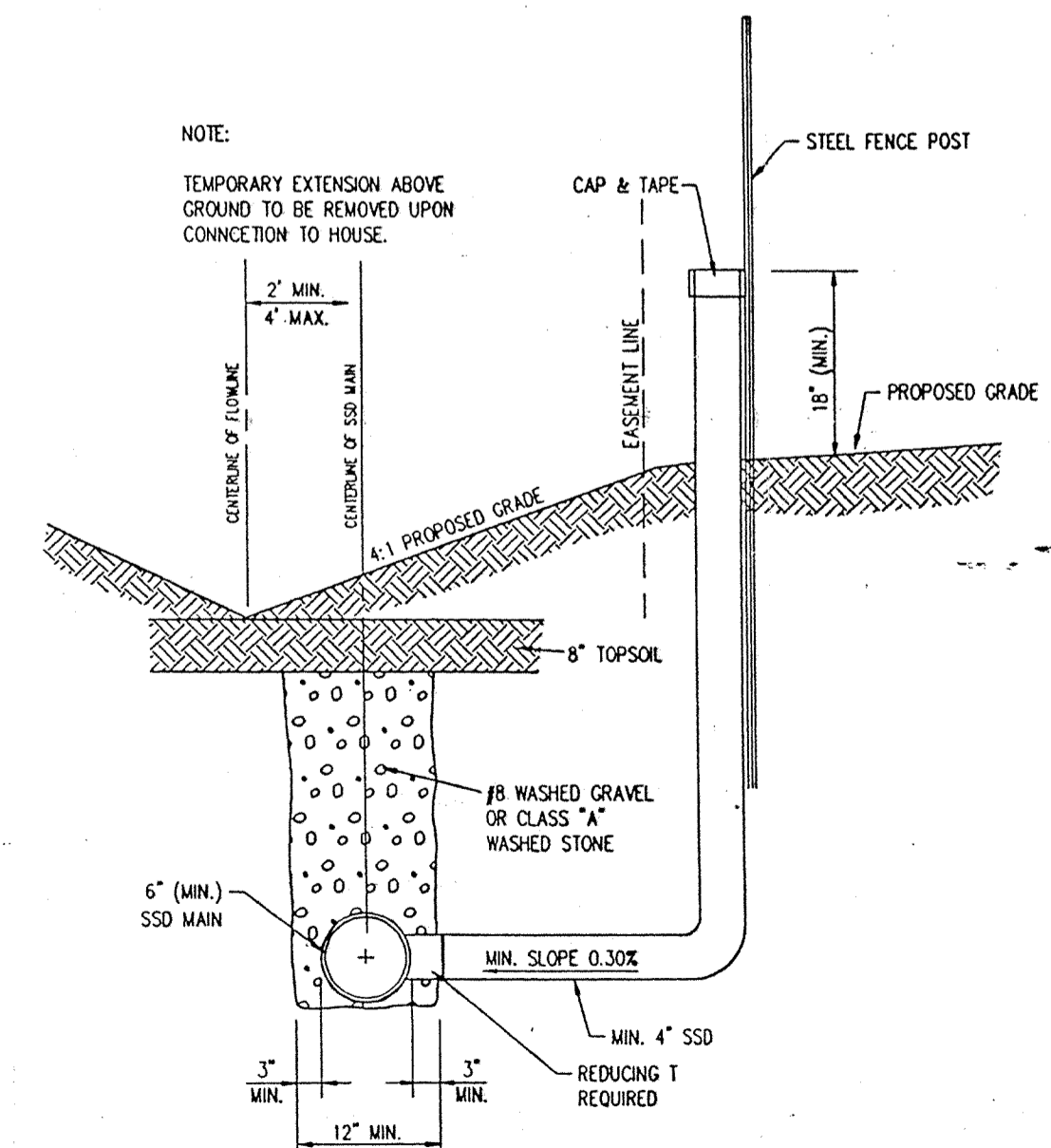
TYPICAL ROLL CURB DETAIL WITH REVERSED SLOPE GUTTER

CONCRETE ROLL CURB & GUTTER

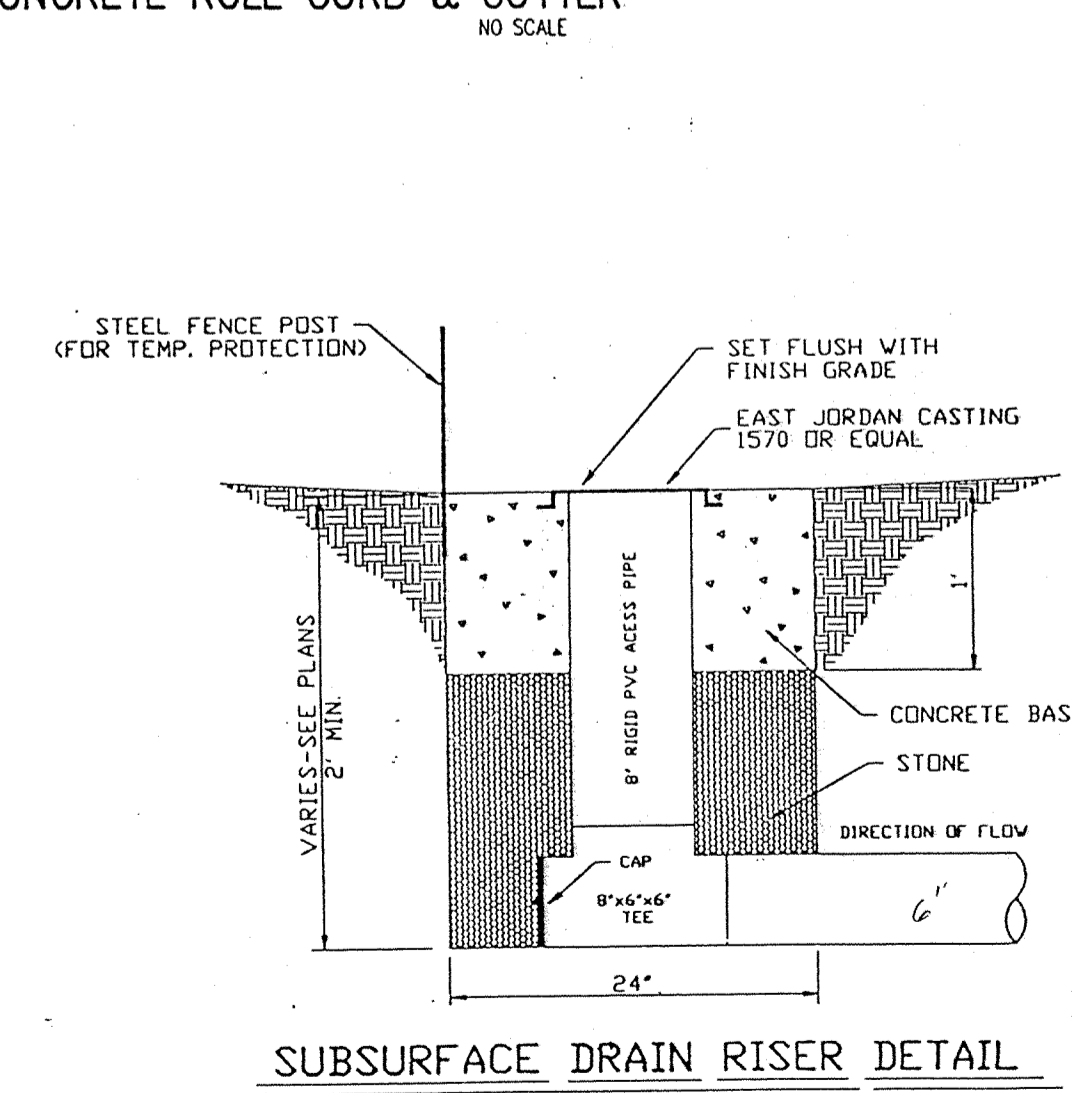


NOTES:
Installation of underdrain shall conform to section 718 of the Indiana Department of Transportation Standard Specifications.
Underdrains shall not be installed until final grading and compaction is completed on subgrade.
Any contamination of underdrain backfill shall be removed prior to installation of aggregate base.
Underdrains shall not be installed until utilities located beneath the underdrains are in place. (i.e. water mains, storm sewers, sanitary sewers, etc.)

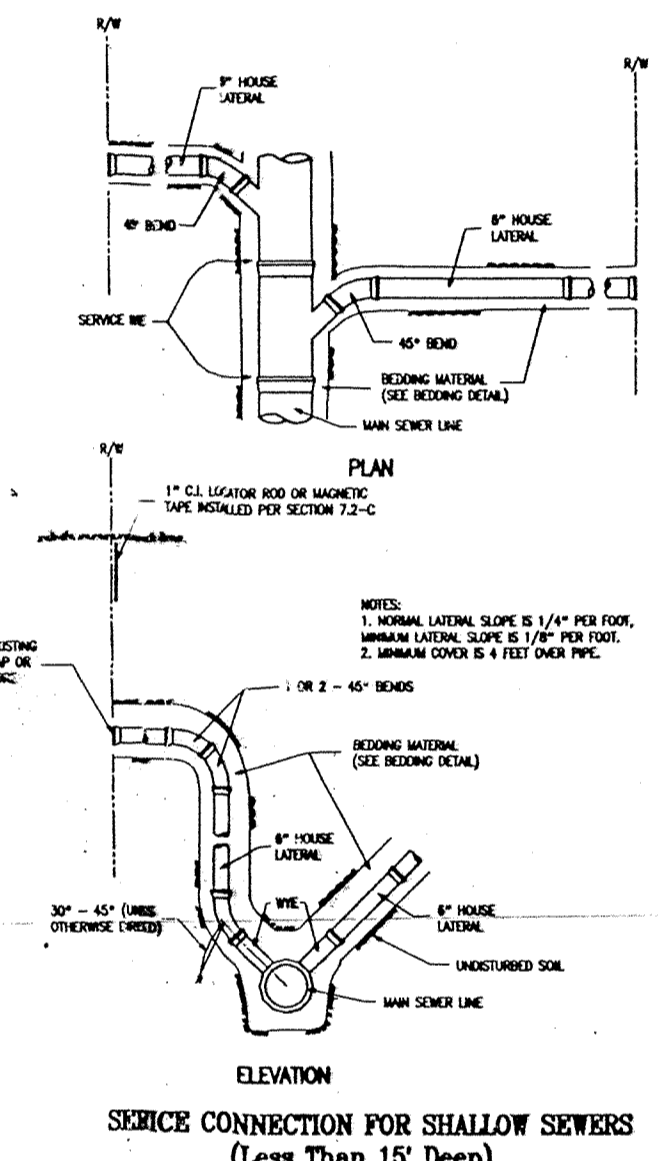
PIPE UNDERDRAIN



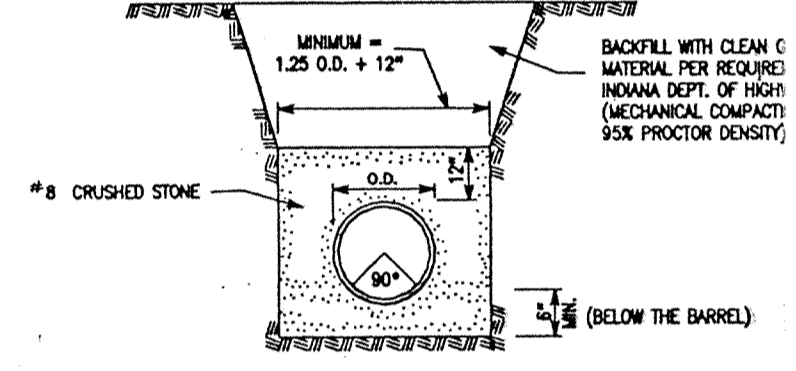
TYPICAL SSD LATERAL TO INDIVIDUAL LOTS IN REAR YARD



SUBSURFACE DRAIN RISER DETAIL



SERVICE CONNECTION FOR SHALLOW SEWERS (Less Than 15' Deep)

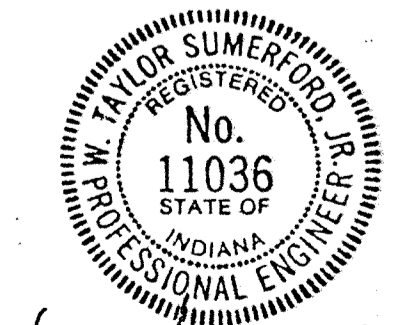


FLEXIBLE PIPE BEDDING DETAIL (PVC & HDPE Pipe)

DATE	REVISIONS
7-18-94	REVISED PER HAMILTON COUNTY T.A.C.

TITLE		MISC. STANDARD DETAILS	
Sutton Rice Section 2		Clay Township, Hamilton County, Indiana	
DESIGN BY	DRAWN BY	CHECKED	APPROVED
ALK	ALK		

Evergreen
Planners, Inc.
234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219
317/353-6161



GENERAL SITE WORK NOTES

- All construction work and material shall meet the specifications of the Indiana Department of Highways 1988.
- All trenches under or within five (5) feet of the street pavement shall be backfilled to the subgrade with granular material as directed by the engineer.
- Before earthwork is commenced, the contractor shall remove the topsoil in the area of the street and house pads that require fill. This topsoil shall be stockpiled as directed by the engineer in sufficient quantity so as to allow for the placement of at least three (3) inches over all disturbed areas before mulch seeding. The remainder of the topsoil shall be distributed in the front and rear yards.
- All fills placed under paved areas and house pads are to be compacted to 100% and 95% standard procter (ASTM D-698) in accordance with Section 207.
- Minimum elevation for the top of the slab type structures or if a crawl space or basement is used, the flood protection grade would pertain to the lowest land grade around the exterior of the building, is two (2) feet above the 100 year flood elevation.
- Temporary silt settlement basins, two feet in depth shall be excavated at the entrance to storm structures, as directed by the engineer.
- Pavement is to be placed on a prepared subgrade with no traffic on the subgrade prior to paving, as per 1988 I.D.O.H. Specifications, Section 207.
- Concrete pavement to be placed as per 1988 I.D.O.H. Specifications, Section 500. Asphalt pavement to be placed as per 1988 I.D.O.H. Specifications, Section 400. For additional information see Street Detail Sheet.
- All construction within the dedicated right of way or in areas dedicated to the public shall conform to the Hamilton County "STANDARDS FOR CONSTRUCTION OF ROAD IMPROVEMENTS" as adopted on the 4th day of May, 1993 and its periodic revisions.
- All natural areas which are disturbed by site development construction shall be seeded with a mixture of 60 pounds per acre of Perennial Rye grass and 60 pounds per acre of Kentucky 31 Fescue or Alta Fescue.
- Driveways and sidewalks are not to be installed as part of these plans and are the responsibility of the individual home builder except where note otherwise.
- Prior to the start of construction, a pre-construction conference will be scheduled on site with Contractor, Subcontractor, Developer, Engineer for the Developer, appropriate County officials and affected utilities.

ELECTRIC, TELEPHONE AND CABLE TV

- Conduit shall be required for all crossings under pavement areas.
- Granular backfill shall be required for all crossings under pavement areas and shall be compacted per Section 211.
- Concrete pads for electric and telephone transformers shall be set at the approximate ground grade as shown on the Site Development Grading Plan.

CONCRETE CURB AND WALKS

- See Detail Sheet for type and details. Curbs and walks within existing or proposed right of way shall be constructed in accordance with the Hamilton County STANDARDS FOR CONSTRUCTION OF ROAD IMPROVEMENTS.
- Concrete shall be ready mix Portland cement conforming to A.S.T.M. C-150, and water. Aggregate shall conform to A.S.T.M. C-33. Compressive strength of concrete at 28 days shall be 4000 p.s.i. Where required, reinforcement shall be welded steel wire fabric conforming to A.S.T.M. A-185.
- Application
 - Place concrete only on a moist, compact subgrade or base free from loose material. Place no concrete on muddy or frozen subgrade.
 - Concrete shall be deposited so as to require as little rehandling as practical. When concrete is to be placed at an atmospheric temperature of 35 F. or less, paragraph 702.10 of the I.D.O.H. Specifications, 1988 edition, shall apply.
 - Except as otherwise specified, cure all concrete by one of the methods described in Section 501.17 of the I.D.O.H. Specifications, 1988 edition.

STORM SEWERS

- Storm sewer structures shall comply with current specifications of Hamilton County and all other appropriate agencies in respect to design and quality of construction.
- All storm sewer construction inside public right of way, either existing or to be dedicated, shall be in accordance with the Hamilton County Survey Standard Plans. Contractor shall notify the Hamilton County Drainage Board forty-eight hours prior to commencement of storm sewer construction.
- Storm sewer material and installation shall be in direct accordance with Hamilton County Standards as approved and all subsequent revisions.
- Where reinforce concrete pipe is shown on the construction plans, it shall in accordance with A.S.T.M. C-76 Class III Wall "B", unless otherwise specified on the plans.
- Where corrugated metal pipe is shown on the construction plans, it shall be 16 gauge unless otherwise specified and shall have the connecting bands and seals as specified by the manufacturer. Corrugated metal pipe may be either aluminum pipe or zinc coated steel sheets in accordance with A.S.T.M. A-444.
- Manholes, catchbasins, and inlets may be precast concrete, brick or block.
- Precast concrete and steel for manholes and inlets shall be in accordance with A.S.T.M. C-478.
- Castings shall be as shown on the Structure Data Table for the manufacturer, type and model number.
- Granular backfill shall be required for all crossings under pavement areas.

TYPICAL SANITARY SEWER SPECIFICATIONS TO BE USED FOR PRIVATE SEWER DEVELOPMENT WITHIN CLAY TOWNSHIP REGIONAL WASTE DISTRICT

REVISED OCTOBER 1992

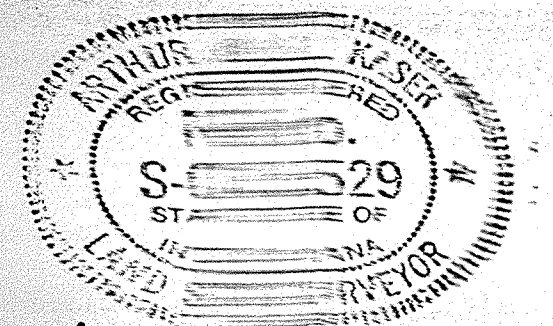
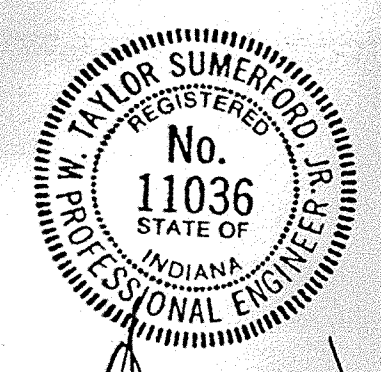
- Standard specifications of the Clay Waste District and Indiana Department of Highways shall apply for all work and materials. Pipe shall be installed in accordance with Section 715.
- Sanitary sewer pipe shall be PVC in accordance with ASTM D-3034 (S.D.R. 35) and ASTM 2321. PVC pipe shall have grooved bell and gasket. The pipe shall be made of PBC plastic having a cell classification of 12454B.
- PVC sewer fittings shall conform to the requirements of ASTM D-3034-89 specification. Fittings in sizes through 8" shall be molded in one piece with elastomeric joints and minimum socket depths as specified in sections 6.2 and 7.3.2. Fittings 10" and larger shall be molded or fabricated in accordance with section 7.1.1 with manufacturers standard pipe bells and gaskets. Wall thickness of fittings shall be SDR 26 as defined in section 7.4.1 of the specifications. Gaskets for elastomeric joints shall be molded with a minimum cross-sectional area of 0.20 square inches and conform to ASTM F-477 specification. Fittings shall be manufactured by Harco or equal.
- All sanitary manholes shall be "precast concrete" manholes in accordance with ASTM C-478 and Section 720. O-rings shall conform to C-443. Kent Seal or equivalent shall also be applied to all joints and between riser rings and castings. Manhole step spacing shall be no more than 16 inches.
- Butyl rubber coating shall be applied around each manhole joint from 6 inches above to 6 inches below each joint. The appropriate primer shall be applied prior to applying the rubber coating. Inside joints to be filled with precoat plug material.
- The casting elevations are set by plan. However, the castings are to be adjusted in the field by the Engineer's representative, should a discrepancy occur between plan grade and existing grade. New manhole ring and cover shall be installed to establish grade. Maximum height of adjusting rings shall be 12 inches.
- Backfill around all structures and all cuts under paved areas with granular material. Trenches opening within 5 feet of paved roadways shall be backfilled with granular material in accordance with Section 211. Backfill under sidewalks shall be granular, unless the walks are constructed a minimum of 6 months after backfill has been in place.
- The Contractor shall be responsible for verifying that all state highways, city and county permits have been obtained by the developer prior to start of construction.
- The Contractor shall be required to furnish the developer's Engineer with a set of prints, marked in red pencil, showing actual sewer location and invert, to include lateral location, depth and length. Such "as-built" prints must be received by the Engineer before the final contract payment can be authorized. The sanitary sewer laterals and stubs termination shall be indicated on the surface with a metal fence post set immediately above said termination point.
- All sanitary sewer lines upon completion will be required to pass an infiltration weir test and a low pressure air test, unless otherwise directed by the Engineer. Said test shall be conducted according to NCPI Standard Method, and shall be witnessed by an Engineer and a representative of the Clay Waste District.
- Deflection tests shall be performed on all flexible pipe after the final backfill has been in place at least 30 days. No pipe shall exceed a vertical deflection of 5 percent deflection test results. (The following are considered non-flexible pipes: concrete pipe, ductile iron pipe and cast iron pipe.) The deflection test shall be performed with a nine-point mandrel. Proving rings shall be available.
- All mandrel testing shall be observed by a Professional Engineer for certification and a representative of the Clay Waste District.
- The ends of laterals are to be plugged tight with a braced plastic disc or cap capable of withstanding a low pressure air test without leakage.
- Bedding for flexible pipe shall be No. 8 crushed stone from 6 inches below the pipe to 12 inches above the pipe. Bedding for rigid pipe shall be No. 8 crushed stone from 6 inches below the pipe to the spring line of the pipe and from this point to 12 inches above shall be fill sand or equivalent. Manholes shall be placed on no less than 6 inches of No. 8 crushed stone bedding.

- Water and sewer line crossings and separations shall be in accordance with Ten States' Standards.
- Trench shall be opened sufficiently ahead of construction to reveal obstructions, and shall be properly protected and/or barricaded when left unattended.
- No water shall be permitted to flow into the sanitary sewer system during construction. Contractor shall utilize a pump to keep the water level below the pipe. Pump discharge shall be directed to a storm outlet. Any pipe entering existing sewers shall be plugged, until such time as all tests on the sewers have been completed and the lines have passed all punch lists.
- All sewer laterals installed by the mainline Contractor shall be bedded the same as the main line sewer.
- Forty eight (48) hours notice shall be given to the Clay Regional Waste district prior to the start of sewer construction. Also, 48 hours notice shall be given prior to any testing done on the sewer.
- Manhole castings shall be stamped "SANITARY SEWER" (Neenah Casting R 1642 or equal) and be self-sealing type. Waterproof casting shall be Neenah R-1916-F1 and stamped "Sanitary Sewer."
- The minimum slope for sewer acceptance by the Clay Township Regional Waste District are:

Size of Pipe	Minimum Constructed Slope
8 inch	0.40%
10 inch	0.28%
12 inch	0.22%
15 inch	0.15%
18 inch	0.12%
- The Contractor shall provide measurements of the slope of the sewer for each manhole section as construction progresses. Such measurements shall be certified by a Registered Land Surveyor or Engineer and be available on site for observation by the District's Inspector. Nor more than three manhole section can be constructed in advance of such measurements.
- In the event the Contractor does not meet the minimum slopes the sewer section and any other affected sewer sections shall be reconstructed to meet such minimum slopes.

SHELL OIL COMPANY PIPELINE CROSSING REQUIREMENTS

- All cables, telephone, fiber optic, cable TV, electric, etc. must be put in a heavy wall PVC casing for the entire width of the R/W.
- All cables, water lines and gas lines may cross over or under the pipeline with a clearance of at least 18 inches from the top or bottom of the line. Coat all metallic lines the full width of the R/W and install test station.
- Sewer lines may cross over or under the pipeline with a clearance of at least 24 inches from the top or bottom of the pipeline. Drain fields to be of solid pipe for the full width of the R/W.
- Foreign pipelines may cross over or under the pipeline with a clearance of at least 18 inches from the top or bottom of the pipeline.
- All street or roads crossing the pipeline must maintain a minimum of 36 inches of cover over the top of the line with no side ditches. If the road has side ditches, the pipeline must have at least 42 inches of cover in the side ditches.
- No permanent structures shall be constructed within a minimum of 25 feet of either side or the centerline of the pipeline or within the boundaries of a defined easement. This is necessary to safely maintain the pipeline without interfering with surrounding improvements.
- A ground cover of no more than SIX FEET shall be maintained over the top of the pipeline.
- No lakes or other bodies of water shall be constructed over the pipeline.
- Construction drawings shall be submitted to SHELL for their approval before any construction around the pipeline. Construction drawings will have SHELL's Emergency and Maintenance Foreman telephone numbers on the prints.
- The contractor will be responsible for fencing SHELL's right of way boundaries so construction equipment will not be passing over the pipeline. Easements can be identified and roads can be constructed over the pipeline for equipment passage.
- 42 inches of cover will be required over the pipeline from the bottom of any drainage ditches to the top of the pipe.
- 48 hour notice must be given to appropriate One-Call System before construction begins. A SHELL representative will be present during any activity around the pipeline.



Taylor Sumnerford

Arthur L. Kan

DATES AND REVISIONS		TITLE	
		Standard Specifications for Sutton Place Section 2	
DESIGN BY		DRAWN BY	
Hamilton County, Indiana		CHECKED	
7-28-94 Rev. per T.A.C. and Hwy. letter of 7-26-94.		APPROVED	

Evergreen
Planners, Inc.
234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219
317/353-6161

DATE	June 1994
JOB NO.	90-08-2
SCALE	one
SHEET NO.	21 of 21