

**Drain:** CROOKED CREEK DRAIN **Drain #:** 250  
**Improvement/Arm:** THE PARK AT WESTON PLACE - SECTION 2  
**Operator:** JDH **Date:** 12-1-03  
**Drain Classification:** Urban/Rural **Year Installed:** 1996

### GIS Drain Input Checklist

- Pull Source Documents for Scanning JDH 12-1
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JDH 12-1
- Digitize & Attribute SSD JDH 12-1
- Digitize & Attribute Open Ditch JDH 12-1
- Stamp Plans JDH 12-1
- Sum drain lengths & Validate JDH 12-1
- Enter Improvements into Posse JDH 12-1
- Enter Drain Age into Posse JDH 12-12
- Sum drain length for Watershed in Posse JDH 12-12
- Check Database entries for errors JDH 12-1

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

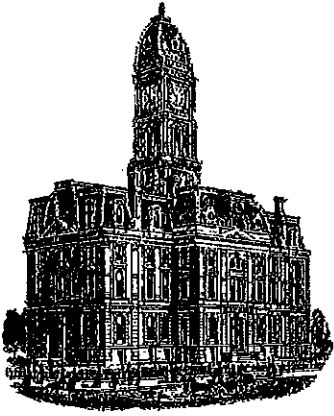
Drain-Improvement: CROOKED CREEK DRAIN-THE PARK AT WESTON PLACE-SECTION 2

792  
276  
66

Drain Type:	Size:	Length <small>(SURVEYORS REPORT)</small>	Length <small>(DB Query)</small>	Length Reconcile	Price:	Cost:
SSD	6"	7,628'	7,628'	Ø		
RCP	15"	303'	303'	Ø		
	18"	576'	576'	Ø		
	21"	718'	718'	Ø		
	24"	188'	188'	Ø		
	27"	399'	399'	Ø		
Sum:		9812'	9812'	Ø		

Final Report: \_\_\_\_\_

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Kenton C. Ward, CFM  
Surveyor of Hamilton County  
Phone (317) 776-8495  
Fax (317) 776-9628

Suite 188  
One Hamilton County Square  
Noblesville, Indiana 46060-2230

### *Map Correction-Field Verification*

**Drain Number:** 250

**Drain Length:** 9812

**Drain Name:** Parks at Weston Section 2  
PLACE

**Change + / - :** -1094

**Date:** 9-23-2016

**New Length:** 8718

**Verified By:** SLM

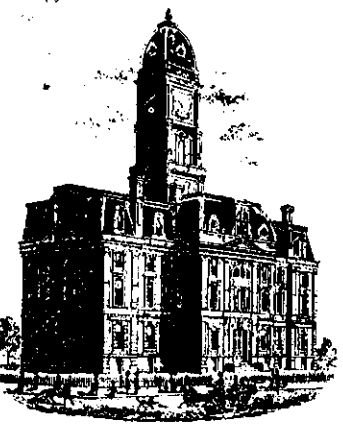
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#### **Notes & Sketch:**

The final report dated September 2, 1997 had an error in the calculation of 6" SSD. The correct footage of 6" SSD is 6534 feet.

**Suzanne L. Mills**  
GIS Specialist

2/24/06  
9:10



SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

June 14, 1996

To: Hamilton County Drainage Board

Re: Crooked Creek Drain, The Park at Weston Place Section 2 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Crooked Creek 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-6026 ft  | 21" RCP 721 ft |
| 15" RCP- 484 ft | 24" RCP 186 ft |
| 18" RCP- 415 ft | 27" RCP 368 ft |

The total length of the drain will be 8200 feet.

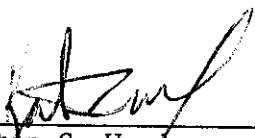
The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. Only the main SSD lines which are located within the easement/right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follow:

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 \$30.00 per lot, \$5.00 per acre for roadways, with assessment for this drain/this section will be \$ 1791.85 *\$30.00 Minimum*

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 The Park at Weston Place Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for August 1996.



---

Kenton C. Ward  
Hamilton County Surveyor

KCW/ndw

STATE OF INDIANA )  
 )  
COUNTY OF HAMILTON )

TO: HAMILTON COUNTY DRAINAGE BOARD  
% Hamilton County Surveyor, Courthouse, Noblesville, IN 46060

In the matter of THE PARK @ WESTON PLACE Subdivision,  
Section 2 Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in \_\_\_\_\_, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineers estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.

3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain File.
  
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
  
5. The Petitioner shall comply with the Erosion Control Plan as as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain.

\_\_\_\_\_  
Signed

PAUL F. RIOUX, VICE PRESIDENT  
Printed Name

X Paul F. Rioux  
Signed

K.E. PROPERTIES, LLC  
Printed Name

RECORDED OWNER(S) OF LAND INVOLVED

DATE 5/28/96

FINDINGS AND ORDER  
CONCERNING THE MAINTENANCE OF THE  
Crooked Creek Drain-The Park @ Weston Place Section 2 Arm

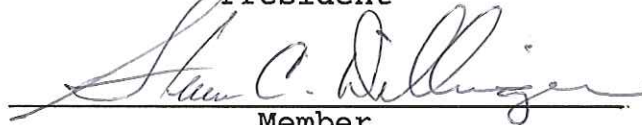
On this 26th day of August 1996, the Hamilton County  
Drainage Board has held a hearing on the Maintenance Report and  
Schedule of Assessments of the Crooked Creek Drain-The Park @ Weston Place  
Section 2 Arm

Evidence has been heard. Objections were presented and  
considered. The Board then adopted the original/amended Schedule  
of Assessments. The Board now finds that the annual maintenance  
assessments will be less than the benefits to the landowners and  
issues this order declaring that this Maintenance Fund be  
established.

HAMILTON COUNTY DRAINAGE BOARD




President



Member



Member

ATTEST:   
Administrative Secretary  
Revised 12/95





CONSULTING ENGINEERS  
LAND SURVEYORS

R.M. Stoepelwerth, PE, PLS • David J. Stoepelwerth, PE, PLS • Curtis C. Huff, PLS • Dennis D. Olmstead, PLS • Jeffery W. Darling, PLS



October 11, 1996

Hamilton County Surveyor  
1 Hamilton County Square, Ste 146  
Noblesville, IN 46060-2230

Attention: Kent Ward

Re: Engineer's Estimate  
Storm Sewer System & Monumentation  
The Park at Weston Place, Section 2

Dear Mr. Ward:

On behalf of the developers, Estridge Development Company, I wish to submit the following Engineer's Estimate of the storm sewer system and monumentation for The Park at Weston Place, Section 2.

Storm sewer system including pipe, inlets, manhole end sections, subsurface drains, rip-rap, bedding and backfill	\$126,200
Erosion Control	\$ 10,000
Monuments & Markers	<u>\$ 2,500</u>
	\$138,700

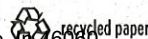
If you have any questions regarding this estimate, please contact Dennis Olmstead at 577-3400, ext. 37.

Very truly yours,

STOEPPELWERTH & ASSOCIATES, INC.

David J. Stoepelwerth, P.E., P.L.S.

cc: Tim Walter, Estridge Development Co.  
DDO96/19584A



ROCK HILL, NEW YORK 12775-8000  
(A Stock Company)



SUBDIVISION BOND

Bond No.: 97026 Principal Amount: \$126,200.00

KNOW ALL MEN BY THESE PRESENTS, that we K.E. PROPERTIES L.L.C.  
1041 W. Main Street, Carmel, IN 46032 as Principal, and \_\_\_\_\_

FRONTIER INSURANCE COMPANY a New York Corporation,

as Surety, are held and firmly bound unto HAMILTON COUNTY COMMISSIONERS

One Hamilton County Square, Noblesville, IN 46040 in the penal sum of \_\_\_\_\_

One Hundred Twenty Six Thousand Two Hundred and 00/100 (Dollars)

(\$ 126,200.00), lawful money of the United States of America,

for the payment of which well and truly to be made, we bind

ourselves, our heirs, executors, administrators, successors and

assigns, jointly and severally, firmly by these presents.

WHEREAS, K.E. PROPERTIES L.L.C. 1041 W. Main Street, Carmel, IN 46032

has agreed to construct in The Park at Weston Place, Section 2 Subdivision,

in Hamilton County the following

improvements:

Storm Sewers

ROCK HILL, NEW YORK 12775-0000  
(A Stock Company)

SUBDIVISION BOND

Bond No.: 97027 Principal Amount: \$10,000.00

KNOW ALL MEN BY THESE PRESENTS, that we K.E. PROPERTIES L.L.C.  
1041 W. Main Street, Carmel, IN 46032 as Principal, and

FRONTIER INSURANCE COMPANY a New York Corporation,

as Surety, are held and firmly bound unto HAMILTON COUNTY COMMISSIONERS  
One Hamilton County Square, Noblesville, IN 46040 in the penal sum of Ten Thousand and 00/100 (Dollars)

(\$ 10,000.00), lawful money of the United States of America,  
for the payment of which well and truly to be made, we bind  
ourselves, our heirs, executors, administrators, successors and  
assigns, jointly and severally, firmly by these presents.

WHEREAS, K.E. PROPERTIES L.L.C. 1041 W. Main Street, Carmel, IN 46032  
has agreed to construct in The Park at Weston Place, Section 2 Subdivision,  
in Hamilton County the following  
improvements:

- Erosion Control

WHEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that  
said Principal shall construct, or have constructed, the  
improvements herein described and shall save the Obligee harmless  
from any loss, cost or damage by reason of its failure to complete  
said work, then this obligation shall be null and void, otherwise  
to remain in full force and effect, and the Surety, upon receipt  
of a resolution of the County Board indicating that the  
improvements have not been installed or completed, will complete  
the improvements or pay to the municipality such amount up to the  
Principal amount of this bond which will allow the municipality  
to complete the improvements.

Signed, sealed and dated, this 11th day of October, 1996

K.E. PROPERTIES L.L.C.

Principal

FRONTIER INSURANCE COMPANY

Surety

By: \_\_\_\_\_

By: Alice Rhoads

Alice Rhoads

Attorney-in-Fact

**POWER OF ATTORNEY**

FRONTIER INSURANCE COMPANY, a New York Corporation, having its principal office in  
Resolution, adopted by the Board of Directors of the Corporation on the 4th day of November, 1995:

of the Board, the President, or any Vice President be, and hereby is, authorized to appoint Attorneys-in-  
on behalf of the Company to execute bonds, undertakings, recognizances and other contracts of indemnity  
thereof, and to attach thereto the corporate seal of the Company, in the transaction of its surety business;

Signatures and attestations of such officers and the seal of the Company may be affixed to any such Power of Attorney  
relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile  
and binding upon the Company when so affixed with respect to any bond, undertaking, recognizance or other contract of  
writing obligatory in the nature thereof;

RESOLVED, that any such Attorney-in-Fact delivering a secretarial certification that the foregoing resolutions still be in effect may insert in  
such certification the date thereof, said date to be not later than the date of delivery thereof by such Attorney-in-Fact."

This Power of Attorney is signed and sealed in facsimile under and by the authority of the above Resolution.

DOES HEREBY MAKE, CONSTITUTE AND APPOINT:

**Lewis James Scheer Michael J. Scheer Alice Rhoads  
James I. Moore Bonnie Kruse Stephen T. Kazmer Dawn L. Morgan**

of La Grange, in the State of Illinois  
its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred in its name, place and stead to sign, execute, acknowledge and  
deliver in its behalf, and as its act and deed, without power of redelegation, as follows:

Bonds guaranteeing the fidelity of persons holding places of public or private trust; guaranteeing the performance of contracts other than  
executing or guaranteeing bonds and undertakings required or permitted in all actions or proceedings or by law  
THOUSAND (\$3,500,000.00) DOLLARS; and to bind FRONTIER  
the duly authorized officers of

State of Illinois  
County of Cook

} ss:

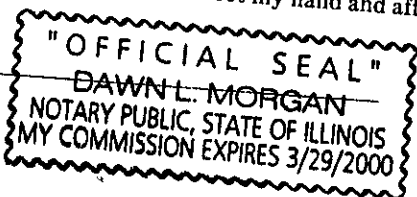
October 11, 1996

herein, duly commissioned and sworn, personally appeared Alice Rhoads, before me, a Notary Public in and for said County and State, residing

known to me to be Attorney-in-Fact of Frontier Insurance Company  
e corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the  
id instrument in behalf of the said corporation, and he duly acknowledged to me that such corporation executed the same.

WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

Commission Expires



*Dawn L. Morgan*  
Notary Public



CHRISTINE I. LANE  
Notary Public State of New York  
Sullivan County Clerk's No. 1996  
Commission Expires May 2, 1998

**CERTIFICATION**

I, JOSEPH P. LOUGHLIN, Secretary of FRONTIER INSURANCE COMPANY of Rock Hill, New York, do hereby certify that the foregoing Resolution  
adopted by the Board of Directors of this Corporation and the Powers of Attorney issued pursuant thereto, are true and correct, and that both the  
Resolution and the Powers of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the facsimile seal of the corporation this 11th day of  
October, 1996



*Joseph P. Loughlin*  
JOSEPH P. LOUGHLIN, Secretary

CERTIFICATE OF COMPLETION AND COMPLIANCE

Address of premises on which land alteration was accomplished 106<sup>th</sup> Street and Michigan Road

Inspection Date(s): \_\_\_\_\_ Permit No. \_\_\_\_\_

Relative to plans prepared by: Stoepfelwerth & Associates, Inc.  
on 3/15, 1996.

I hereby certify that:

To the best of my knowledge, information and belief such land alteration has been performed and completed in conformity with the improved plan, except

Signature David J. Stoepfelwerth Date: 11/11/96

Type Name: David J. Stoepfelwerth Phone: (317) 849-5935

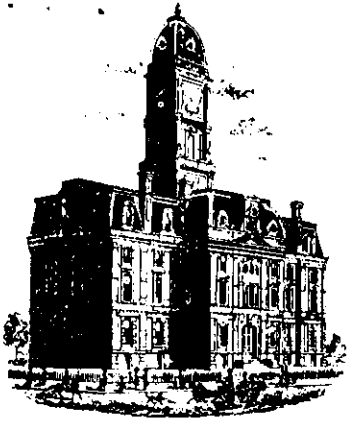
Business Address: 9940 Allisonville Road, Fishers, IN 46038

Surv.  Engr.  Arch.  Indiana Registration No. R.L.S. S0474

(SEAL)

FORMS/COMP&C





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

September 2, 1997

Re: **Crooked Creek Drain - Park @ Weston Sec.2**

Attached are as-builts, certificate of completion & compliance, and other information for The Park @ Weston 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 June 14, 1996. The changes are as follows:

Str.894-881 15"RCP shortened from 152' feet to 151' feet.

Str.880-879 18"RCP lengthened from 71' feet to 73' feet.

Str.878-ext 24"RCP lengthened from 164' feet to 166' feet.

Str.882-882A 18"RCP shortened from 59' feet to 58' feet. *Length reported 59' on 6/14/96*

Str.890-889 21"RCP shortened from 135' feet to 133' feet.

Str.884A-884 18"RCP shortened from 160' feet to 159' feet. This segment was incorrectly reported as 15"RCP at 180' feet on the original report.

Str.884-885 18"RCP shortened from 62' feet to 61' feet.

Str.886-887 21"RCP lengthened from 313' feet to 314' feet.

Str.887-892 27"RCP shortened from 190' feet to 189' feet.

Str.893-ext 27"RCP lengthened from 148' feet to 180' feet.

The corrected length of 6"SSD is 7,628' feet.

The length of the drain due to the changes described above is now **9,812 feet**.

The non-enforcement was approved by the Board at its meeting on August 26, 1996 and recorded under instrument #9609648475.

The bond or letter of credit from Frontier Insurance Co, number 97026 for storm sewers, 97027 for erosion control and 97028 for monumentation; dated October 11, 1996; in the amount

of \$126,200.00, \$10,000.00 and \$2,500.00; has been recommended for release in a letter to the Commissioners dated November 12, 1996.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenton C. Ward', written over a horizontal line.

Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm



### Asbuilt Structures

Project: CROOKED Creek DRAIN - Park @ Weston Sec 2

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

894	897.28	894.53				
881	897.01	894.09	15"	151'	FRM 152'	
881	897.01	894.09				
880	899.01	893.51	18"	225'		
880	899.01	893.51				
879	897.57	893.24	18"	73'	FRM 71'	
879	897.57	893.24				
878	897.57	893.24	21"	30'		
878	897.57	893.24				
EX	897.18	892.53	24"	166'	FRM 164'	
883	896.43	893.15				
882	896.42	893.02	15"	30'		
882	896.42	893.02				
882A	895.97	892.83	18"	58'	FRM 59'	
882A	895.97	892.83				
EX	896.15	892.05	21"	181'		
890	898.68	896.37				
889	899.27	896.02	21"	133'	FRM 135'	

6" SSD Streets:


Total: \_\_\_\_\_

RCP Pipe Totals:


6" SSD Lots:


Total: \_\_\_\_\_


Other Drain:

Total Length of Drain: \_\_\_\_\_

**Asbuilt Structures**

Project: CROOKED Creek DRAIN - Park @ Weston Sec. 2

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

889	899.27	896.02				
888	899.37	895.77	21"	30'		
888	899.37	895.63				
887	899.93	895.63	24"	22'		
887	899.93	895.63				
891	898.56	895.95	15"	122'		
884A	899.77	897.46				
884	901.37	896.97	18"	159'	From 160'	Incorrectly reported as 120' of 15"
884	901.37	896.97				
885	900.64	896.73	18"	61'	From 62'	
885	900.64	896.73				
886	900.57	896.63	21"	30'		
886	900.57	896.63				
887	899.93	895.63	21"	314'	From 313'	
887	899.93	895.63				
892	899.54	895.01	27"	189'	From 190'	
892	899.54	895.01				
893	899.49	898.88	27"	30'		

**6" SSD Streets:**


Total: \_\_\_\_\_

**RCP Pipe Totals:**


**6" SSD Lots:**


Total: \_\_\_\_\_


Other Drain:

Total Length of Drain: \_\_\_\_\_

**Asbuilt Structures**

Project: Crooked Creek Drains: Park @ Weston Sec. 2

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

893	849.49	898.88				
Ex.	—	894.17	27"	180'	FRM 148'	

**6" SSD Streets:**

Constitution Dr	870.30	
Putnam Place	945.0	910
Gettysburg Place	1140.0	1100
Freeman Court	1168.92	
↓	50.0	
Putnam Address	640'	590

**6" SSD Lots:**


Total: 3814.27 x 2 = 7628.54

Total: \_\_\_\_\_

**RCP Pipe Totals:**

15"	303'
18"	576'
21"	718'
24"	188'
27"	399'

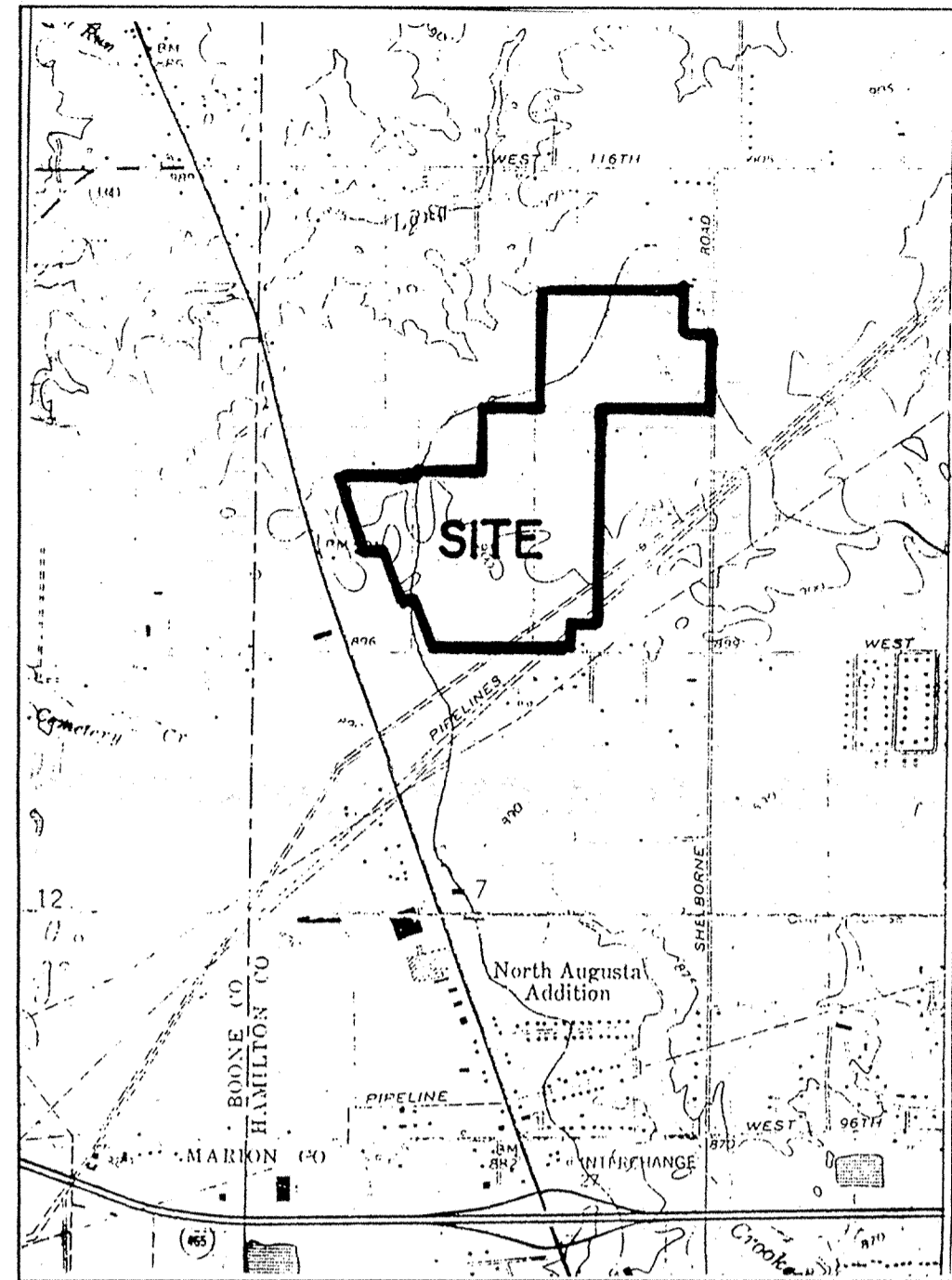
7618.75  
7698.11

**Other Drain:**

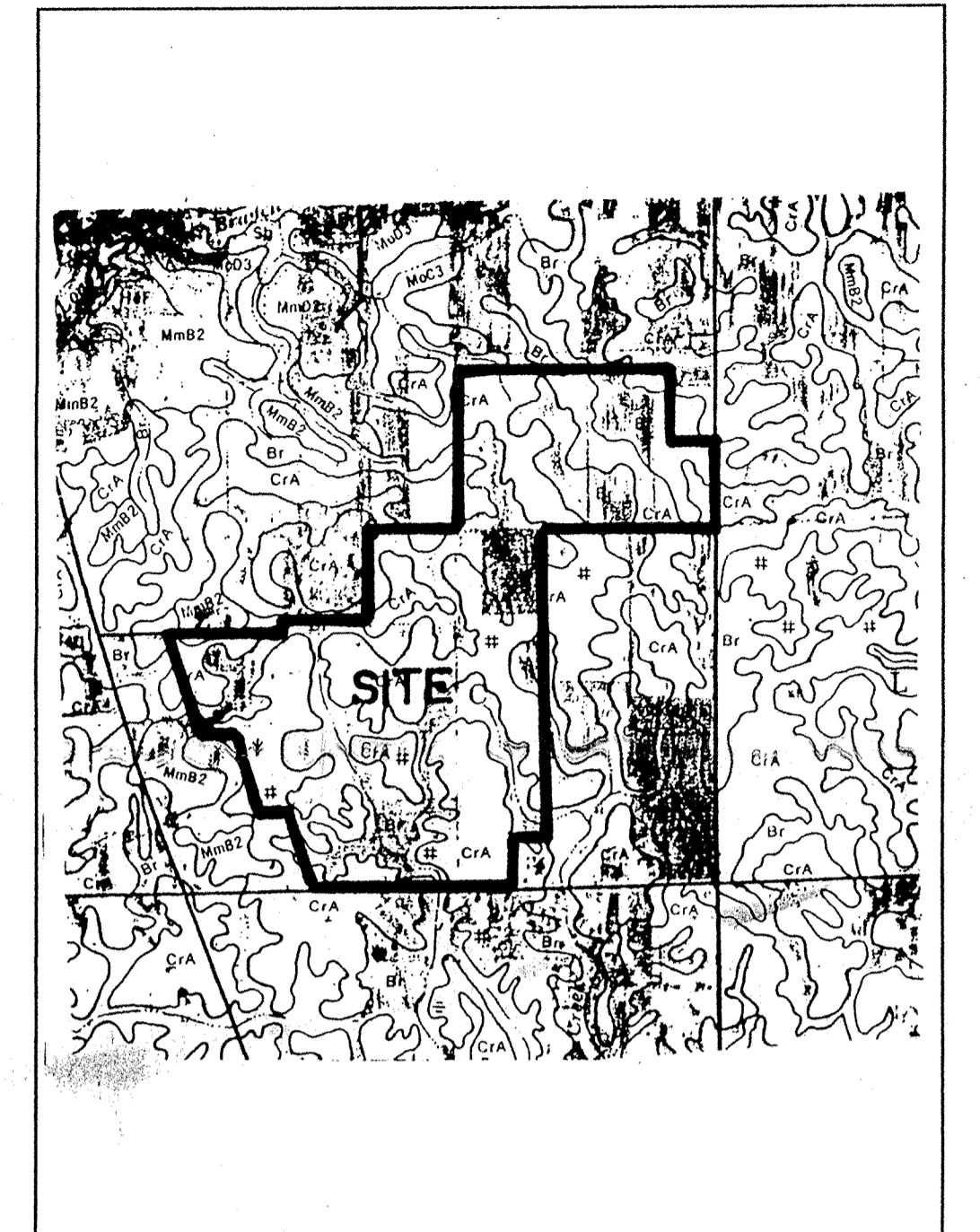

2184'  
Total Length of Drain: 9812

# THE PARK @ WESTON PLACE SECTION TWO

Developed by:  
ESTRIDGE DEVELOPMENT CO., INC.  
1041 WEST MAIN STREET  
CARMEL, INDIANA 46032  
(317)-846-7311



LOCATION MAP



SOILS MAP

MmB2 MIAMI  
Br BROOKSTON  
CrA CROSBY

N.O.I. LETTER OPERATOR:  
KEN BRASSEUR  
ESTRIDGE DEVELOPMENT COMPANY, INC.

DESIGN DATA

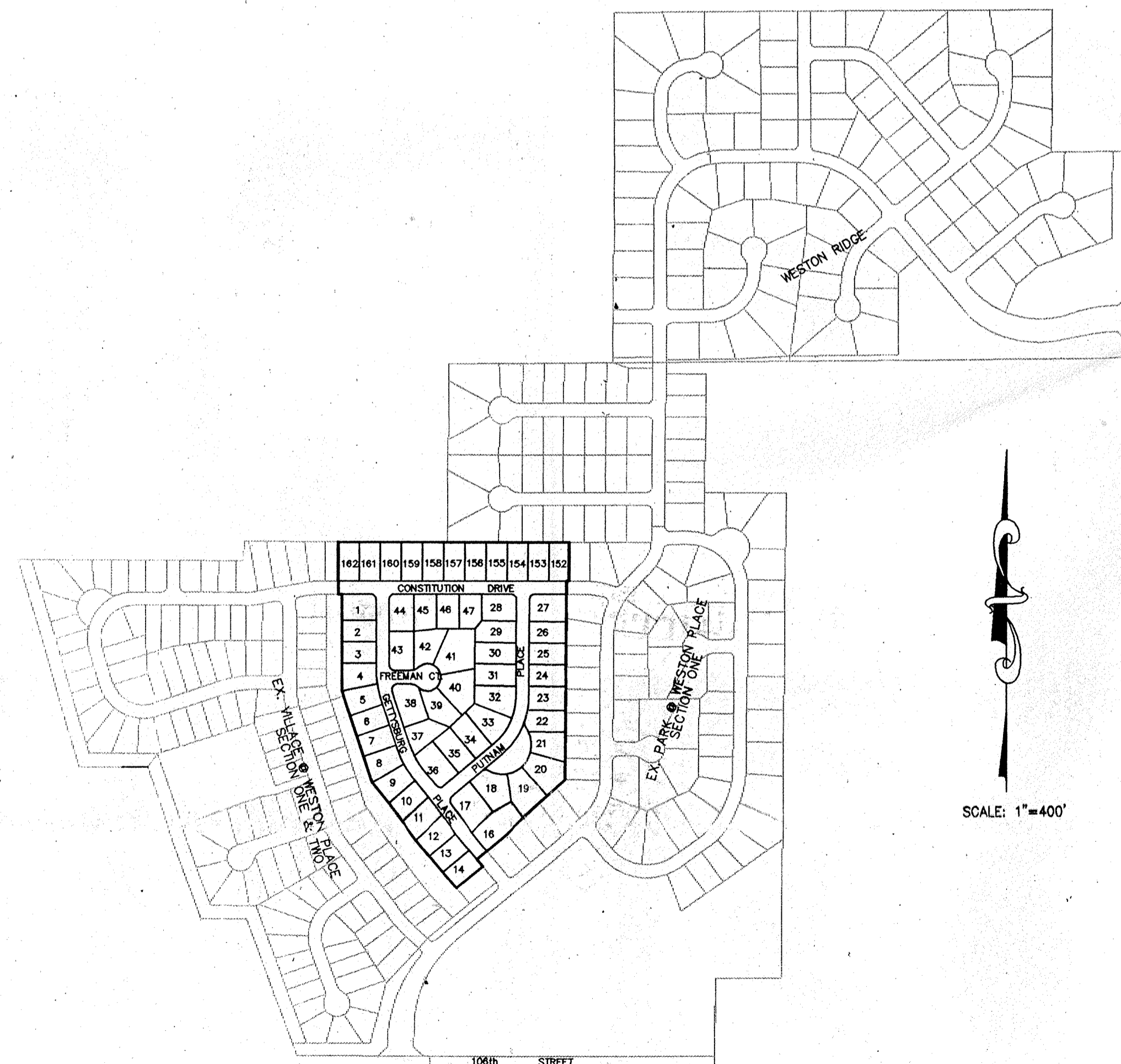
57 LOTS = 2.8 LOTS/ACRE  
20.320 AC.  
GETTYSBURG PLACE 1064.74 L.F.  
FREEMAN COURT 191.92 L.F.  
CONSTITUTION DRIVE 870.30 L.F.  
PUTNAM PLACE 886.80 L.F.

INDEX

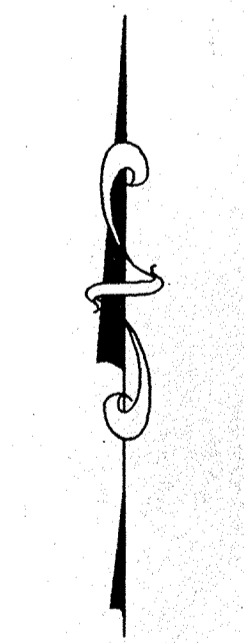
SHT.	DESCRIPTION
1	COVER SHEET
2	TOPOGRAPHICAL SURVEY
3	SITE DEVELOPMENT PLAN
4	EROSION CONTROL PLAN
5	STREET PLAN & PROFILE
6	STREET PLAN & PROFILE
7	STREET PLAN & PROFILE
8	INTERSECTION DETAILS
9	INTERSECTION DETAILS
10	TRAFFIC CONTROL PLAN
11	SANITARY SEWER PLAN & PROFILES
12	SANITARY SEWER PLAN & PROFILES
13	SANITARY SEWER PLAN & PROFILES
14	STORM SEWER PLAN & PROFILES
15	STORM SEWER PLAN & PROFILES
16	WATER DISTRIBUTION PLAN
17	CONSTRUCTION DETAILS
18	CONSTRUCTION DETAILS
19	CONSTRUCTION DETAILS

REVISIONS

SHT.	DESCRIPTION



PLAT MAP



SCALE: 1"=400'

PLANS PREPARED BY:  
STOEPPELWERTH & ASSOCIATES, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9940 ALLISONVILLE ROAD  
P.O. BOX 509007  
INDIANAPOLIS, INDIANA 46250  
PHONE: (317)-849-5935  
FAX: (317)-849-5942

PRINTED  
MAR 14 1996

APPROVAL PENDING  
Not For Construction

PLANS CERTIFIED BY:

*David J. Stoepfelwerth* 3/15/96  
DAVID J. STOEPPELWERTH DATE  
PROFESSIONAL ENGINEER  
NO. 19358

FILED

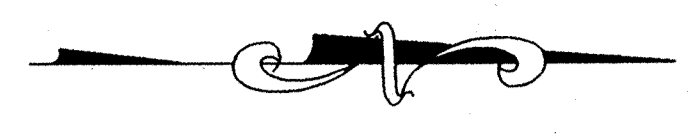
MAR 18 1996

OFFICE OF HAMILTON COUNTY SURVEYOR

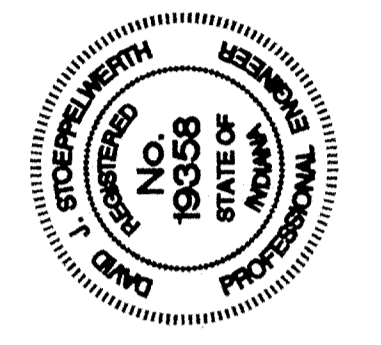


BENCHMARK:  
 U.S.G.S. S-78  
 STANDARD TABLET SET IN CONCRETE APPROX.  
 1000' N. OF 106th ST. @ EAST R/W LINE  
 OF US #421. ELEV.=900.77

S. &A. #3  
 P.K. NAIL IN NORTH FACE OF P.W.P. #12-128  
 12' UP POLE IS 33' WEST OF PANHANDLE  
 EASTERN RED & WHITE GAS LINE MARKER.  
 ELEV.= 895.04



SCALE: 1" = 50'



CERTIFIED: 3/15/96

*David J. Stapp*

CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS INDIANA



TOPOGRAPHICAL SURVEY  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 CARMEL INDIANA

FILED

MAR 18 1996  
 OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET NO.  
 2  
 OF 19 SHEETS  
 JOB NO. 19584B


DATE	BY	REVISIONS
3/15/96		

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- EARTHWORK:**
- EXCAVATION**
    - Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
    - Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
  - REMOVAL OF TREES**
    - All trees and stumps from area to be occupied by a road surface area. Trees and stumps shall not be buried on site.
  - PROTECTION OF TREES**
    - The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
    - In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect of protective measure to be taken, if any, to preserve such trees.
  - REMOVAL OF TOPSOIL**
    - Removal of topsoil to a depth of 6 inches (or more if required by Engineer) from all area to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
  - UTILITIES**
    - Rules and regulation governing the respective utility shall be observed in executing all work under this section.
    - It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
  - SITE GRADING**
    - Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
    - The tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
    - The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

FORM EARTHWRK

**"HOLEY MOLEY" SAYS:**



1-800-382-5544  
CALL TOLL FREE

1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA

**CAUTION**

LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE, (including, but not limited to, manholes, inlets, valves, & marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

**BENCHMARK:**  
U.S.G.S. S-78  
STANDARD TABLE SET IN CONCRETE APPROX.  
1000' N. OF 106TH ST. @ EAST R/W LINE  
OF U.S. # 421. ELEV.=900.77

S.&A. #3  
P.K. NAIL IN NORTH FACE OF P.W.P. #12-128  
12' UP, POLE IS 33' WEST OF PANHANDLE  
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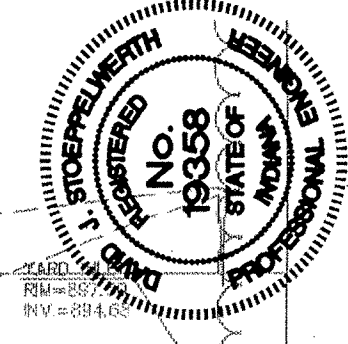
**NOTE:**  
ALL FRONT YARDS SHALL BE AS FLAT AS POSSIBLE FROM THE BACK OF CURB TO APPROX. 5' IN FRONT OF THE BUILDING SETBACK LINE.

ALL PADS PLACED SHALL BE COMPACTED TO 95% MAX. DENSITY USING THE STANDARD PROCTOR TEST METHOD.

CONTRACTOR SHALL BUILD PADS 0.5 FOOT LOWER THAN PLAN GRADE SHOWS.

**VILLAGE @ WESTON PLACE SECTION 2**  
**UNDER CONSTRUCTION**

SCALE: 1" = 50'

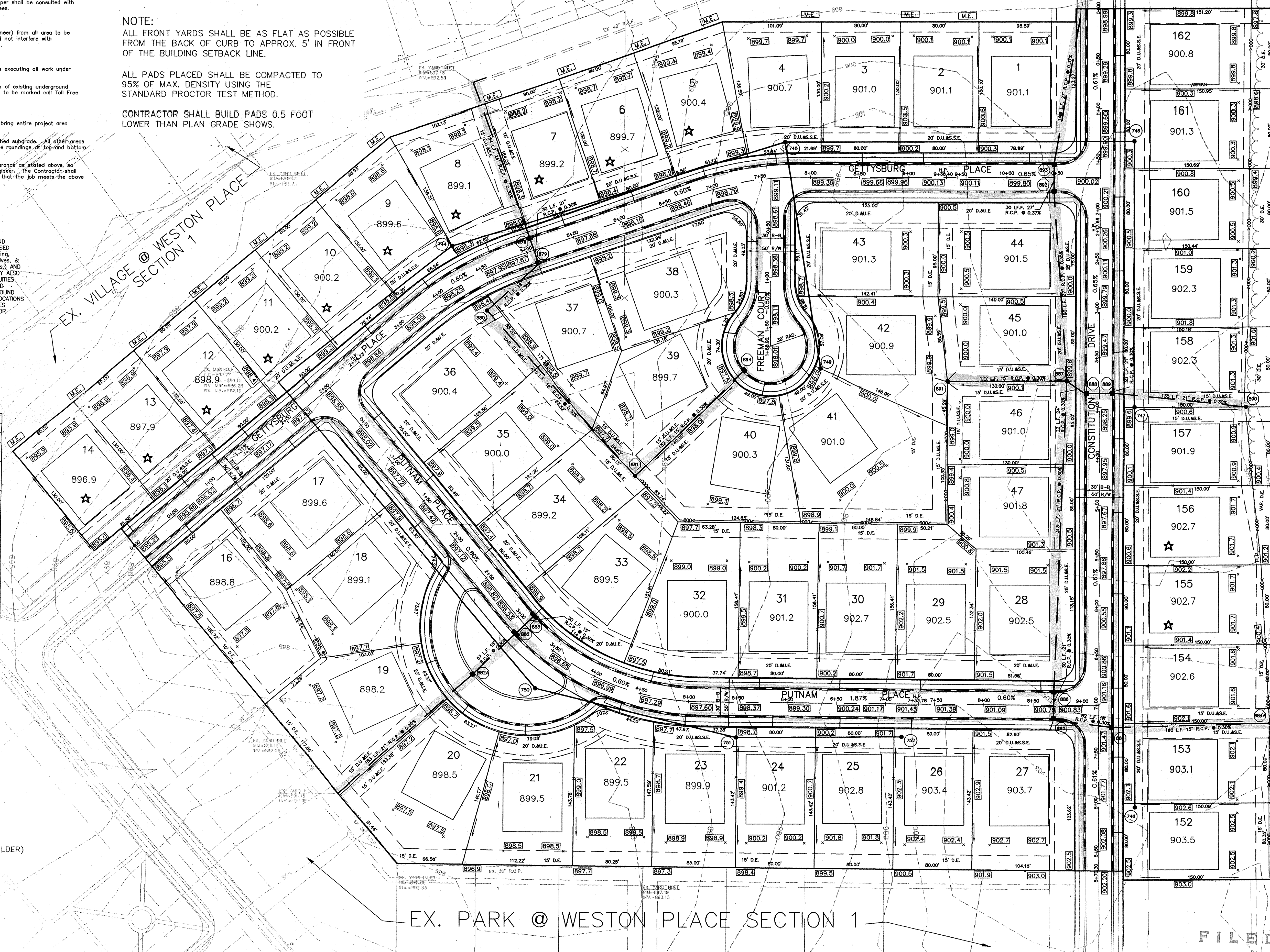


Str. No.	Type	To/Rim	Inverts	Dir.
878	Curb Inlet	897.56	893.02	(SW) (NE)
879	Curb Inlet	897.56	893.11	(SW) (NE)
880	Manhole	898.70	893.32	(SW) (NE)
881	Yard Inlet	897	894	(SW) (NW)
882	Double Curb Inlet	896.41	892.77	(SW) (NW)
882	A Curb Inlet	895.88	892.60	(SE) (NW)
883	Double Curb Inlet	896.41	892.86	(SE)
884	Curb Inlet	901.31	896.82	(S) (N)
884	A Yard Inlet	899.60	897.30	(S)
885	Curb Inlet	900.62	896.63	(W) (N)
886	Curb Inlet	900.62	896.54	(W) (E)
887	Manhole	899.80	895.60	(W) (E) (N) (S)
888	Curb Inlet	899.20	895.67	(S) (N)
889	Curb Inlet	899.20	895.76	(S) (N)
890	Yard Inlet	899.60	896.17	(S)
891	Yard Inlet	898.50	895.97	(N)
892	Curb Inlet	899.45	894.93	(W) (E)
893	Curb Inlet	899.45	894.82	(W) (E)
894	Curb Inlet	897.21	894.45	(SE)

19584BST

**LEGEND**

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 4' SIDEWALK (BY HOME BUILDER) UNLESS OTHERWISE NOTED
- 35 LOT NUMBER
- 853.0 PAD ELEVATION  
PAD SIZE 60'x70'
- ★ DENOTES PADS OF 2'-0" OF FILL OR MORE
- PROPOSED 6" UNDERDRAINS  
4' S.S.D. TO EACH LOT



**EX. PARK @ WESTON PLACE SECTION 1**

OWN. BY: WAB  
OK. BY: WAB  
SCALE: 1"=50'  
DATE: 3/15/96

CERTIFIED: 3/15/96  
*David J. Stapp*  
CONSULTING ENGINEERS - LAND SURVEYORS  
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
INDIANAPOLIS INDIANA

**SITE DEVELOPMENT PLAN**  
**THE PARK @ WESTON PLACE**  
**SECTION TWO**

INDIANAPOLIS INDIANA  
CARMEL

FILED  
MAR 18 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET NO. 3  
OF 19 SHEETS  
JOB NO. 19584B

REVISIONS  
BY

# THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:  
 STEVE RANSHAW  
 ESTRIDGE DEVELOPMENT CO., INC.  
 (317)-846-7311

NOTE: TO CONTRACTOR

- Prior to any work commencing contractor shall install stone drive at entrance, and all silt fences shown on plan.
- Upon completion of the storm structure from being built the fabric drop inlet protection is to be installed ON curb inlets and straw bales around yard inlets immediately.
- Upon completion of the swale construction, contractor shall notify engineer to as-built, upon review of as-built engineer shall notify contractor to install the erosion control blankets as soon as possible.

FORMS/22687

CONTRACTOR SHALL MAINTAIN EXISTING STREETS FROM DEBRIS OF DIRT, SAND, OR STONE AND SHALL BE RESPONSIBLE FOR THE CLEANING OF SUCH ITEMS. AFTER COMPLETION OF THE WORK, THE BUILDERS WILL BE REQUIRED TO KEEP STREETS FREE OF THE SAME, AT THE CITIES DISCRETION.

EXISTING VEGETATION:  
 BRUSH TREES

### EROSION CONTROL FOR INDIVIDUAL LOTS

- CONSTRUCT A GRAVEL DRIVE
- CONFINE ALL TRAVEL TO THE GRAVEL DRIVE
- PRESERVE AS MUCH OF THE EXISTING VEGETATION AS POSSIBLE
- IF THERE ARE LARGE EXPOSED AREAS ON OR NEAR SLOPES A SILT FENCE MAY BE REQUIRED
- AFTER FINAL GRADING, SEED OR SOD THE YARD AS SOON AS POSSIBLE
- AFTER A YARD IS RE-VEGETATED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES

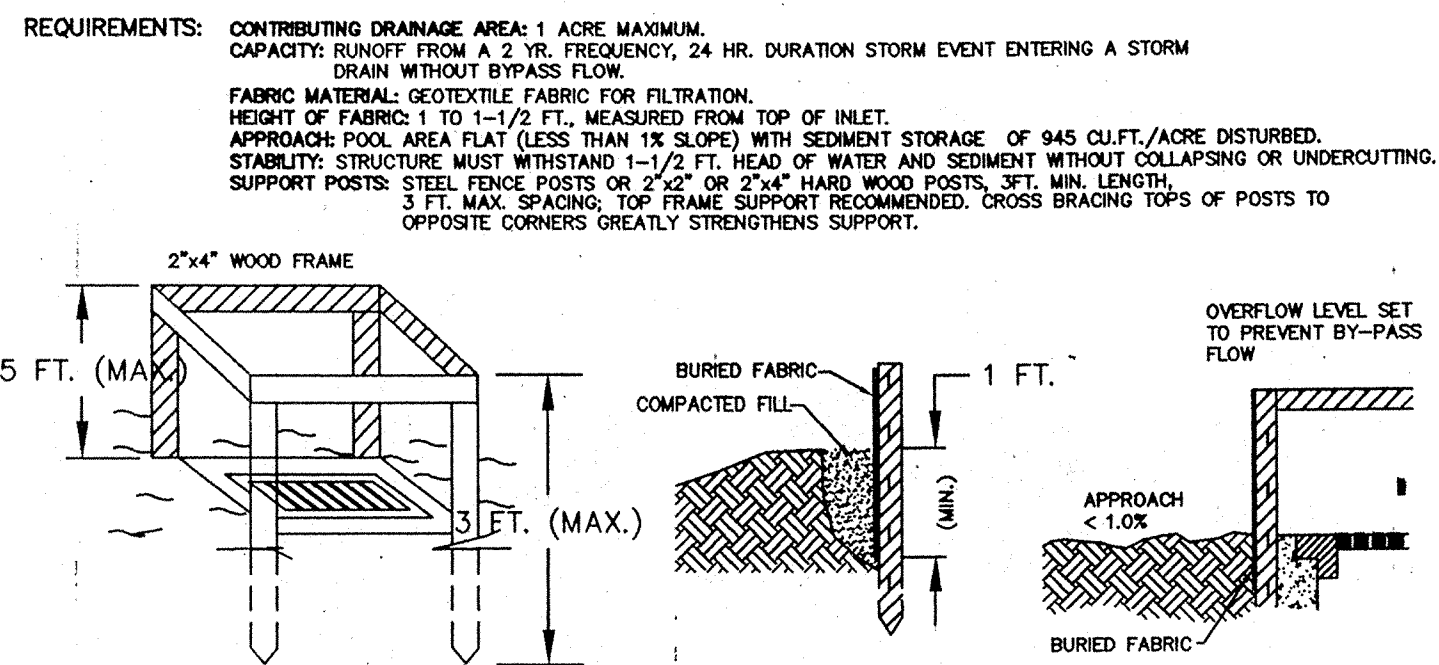
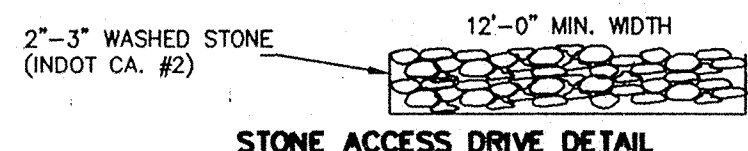
ALL AREAS NOT DENOTING PERMANENT SEEDING OR FIBER BLANKETS SHALL BE TEMPORARILY SEEDED.

RECOMMENDED EROSION CONTROL MEASURES WERE TAKEN FROM CHAPTER 3 AS STATED IN THE INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AS CONDITIONS WARRANT.

### Recommended Erosion Control Measures

- Erosion Control Blanket:** Recommend erosion control blankets such as North American Green S150 be installed as a temporary erosion control measure in the bottom of any swale with a concentrated surface water flow. Refer to erosion control practice number 3.17.
- Straw Bale Drop Inlet Protection:** Recommend using straw bale drop inlet protection as per erosion control practice number 3.54 as a temporary erosion control measure until blankets are installed. Other drop inlet protection practices may become necessary upon the recommendation of the engineer or erosion control consultant if a specific need arises during construction.
- Topsoil Salvage and Utilization:** As per erosion control practice number 3.02. Removal of topsoil to a depth of six inches (or more if required by the engineer) from all areas to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations.
- Temporary Seeding:** Recommend temporary seeding as per erosion control practice number 3.11 if disturbed ground is to be left bare for two months or more. In addition, it is recommended red clover be added to the seeding mixture at a rate of 10 pounds per acre.
- Dormant and Frost Seeding:** As per practice number 3.13 attached to be applied if necessary.
- Surface Roughening:** As per erosion control practice number 3.03, suggest using a bulldozer to track with cleats perpendicular to the slope of slopes on disturbed ground of six percent or greater and around the shore of the lakes as a temporary measure until ready for blankets.
- Temporary Gravel Construction Entrance/Exit Pad:** Recommended as per erosion control practice number 3.01.
- Tree Conservation/Protection:** As per erosion control practice number 3.05, the contractor shall, at the direction of the developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
- In the event cut or fill exceeds 0.5 foot over the root area, the developer shall be consulted with respect of protective measure to be taken, if any, to preserve such trees.
- Maintenance Schedule:** Maintenance of all erosion control practices should be done as needed on a weekly basis and after all large storms. A construction supervisor should be assigned the task of seeing that all practices are installed and maintained according to the design criteria. Maintenance for each erosion control practice should be conducted per maintenance schedule shown on each erosion control practice job sheet (attached).
- Construction Sequence Schedule:**
- Spring (Projected season to start):** Locate areas of tree protection, install gravel construction entrance, install temporary silt fence, strip and stockpile topsoil. Excavate building areas and other earthwork (lakes, roads, swales, sewers, etc.)
  - Spring/Summer:** Install straw bale inlet protection. Install rock chute outlet protection. Install temporary erosion control blankets as needed. Track in ridges with dozer cleats on all slopes greater than six percent and around side slopes of lakes.
  - Summer/Fall:** Apply sod in all areas that are finish graded. Apply temporary seeding in areas where earthwork construction is halted and area will be bare and exposed for more than two months. Maintain erosion control practices as per erosion control maintenance schedule above. Remove temporary erosion control measures in stabilized areas that have been sodded.
  - Winter/Spring:** Apply dormant seeding on any areas that show a need for it. Continue maintenance of existing erosion control practices.
  - Spring/Summer/Fall (following year):** Stabilize all open ground and remove temporary erosion control practices. Implement final landscape plan.

FORMS\18545ECM



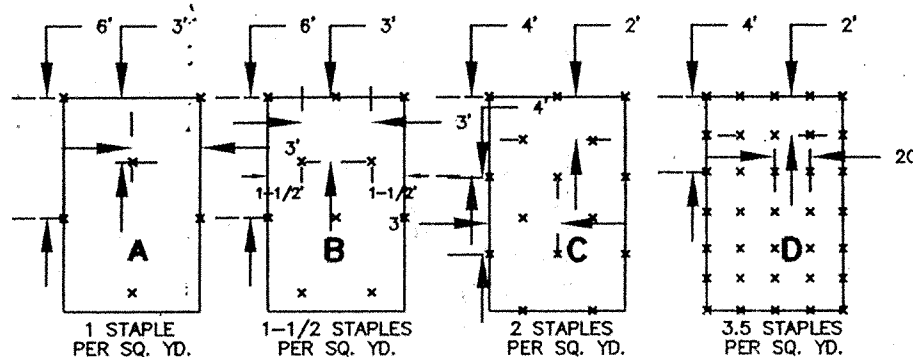
- INSTALLATION:**
- TO PREVENT RUNOFF FROM BYPASSING THE INLET, SET THE TOP OF THE FABRIC AT LEAST 6" BELOW THE DOWNSLOPE GROUND ELEVATION, OR BUILD A TEMPORARY DIKE (COMPACTED TO 6" HIGHER THAN THE FABRIC) ON THE LOW SIDE OF THE INLET.
  - CUT THE FABRIC FROM A SINGLE ROLL TO ELIMINATE JOINTS. (PROVIDE AT LEAST 2' OF OVERLAP IF A JOINT IS NEEDED).
  - BURY THE BOTTOM OF THE FABRIC AT LEAST 1" DEEP, BACKFILL, AND COMPACT THE BACKFILL.
  - SPACE THE SUPPORT POSTS EVENLY AGAINST THE INLET PERIMETER A MAX. OF 3' APART, AND DRIVE THEM ABOUT 1-1/2 FT. INTO THE GROUND. (OVERFLOW MUST FALL DIRECTLY INTO THE INLET AND NOT ON UNPROTECTED SOIL).

- MAINTENANCE:**
- INSPECT THE FABRIC BARRIER AFTER STORM EVENTS, AND MAKE NEEDED REPAIRS IMMEDIATELY.
  - REMOVE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM. AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING SEDIMENT REMOVAL.
  - WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND SEDIMENT, GRADE THE AREA TO THE ELEVATION OF THE TOP OF THE INLET, THEN STABILIZE.

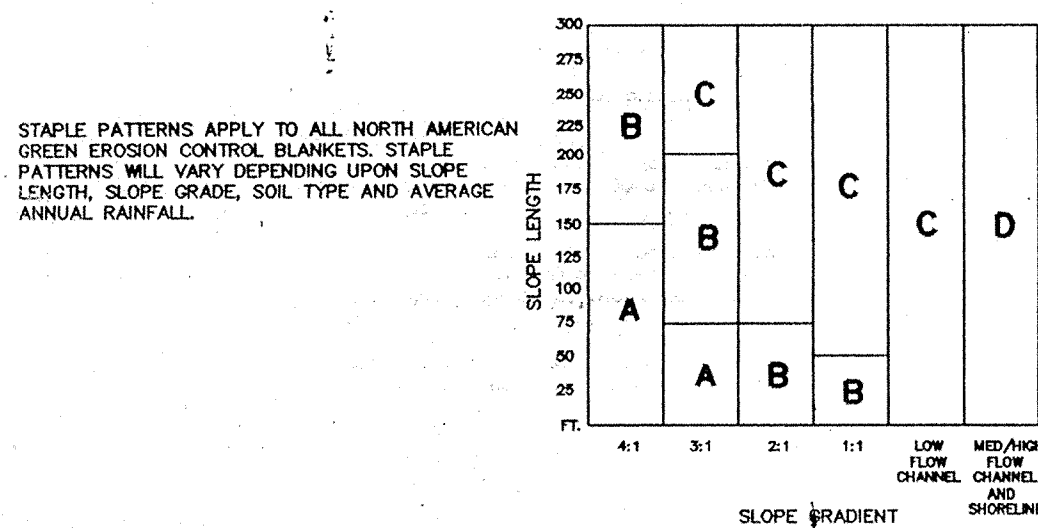
### FABRIC DROP INLET PROTECTION

(TO BE INSTALLED AROUND ALL CURB INLETS)

- Temporary straw bale dam to be removed during blanket installation.
- Denotes seeding & mulch areas  
 Seeding rate: 100#/acre or 2.5#/1000 S.F.  
 Seeding mixture: 25% creeping red fescue, 35% perennial rye, 40% Kentucky bluegrass
- Denotes seeding w/fiber blanket #S150 by North American Green  
 Seeding rate: 100#/acre or 2.5#/1000 S.F.  
 Seeding mixture: 38% Kentucky 31 fescue, 18% perennial rye, 10% annual rye, 14% orchard grass, 10% Kentucky bluegrass
- Denotes permanent seeding & mulching.  
 Seeding rate: 50#/acre  
 Seeding mixture: 100% perennial rye.



STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS WILL VARY DEPENDING UPON SLOPE LENGTH, SLOPE GRADE, SOIL TYPE AND AVERAGE ANNUAL RAINFALL.



### EROSION CONTROL BLANKET STAPLE PATTERN GUIDE

### Soil Erosion Control Summary

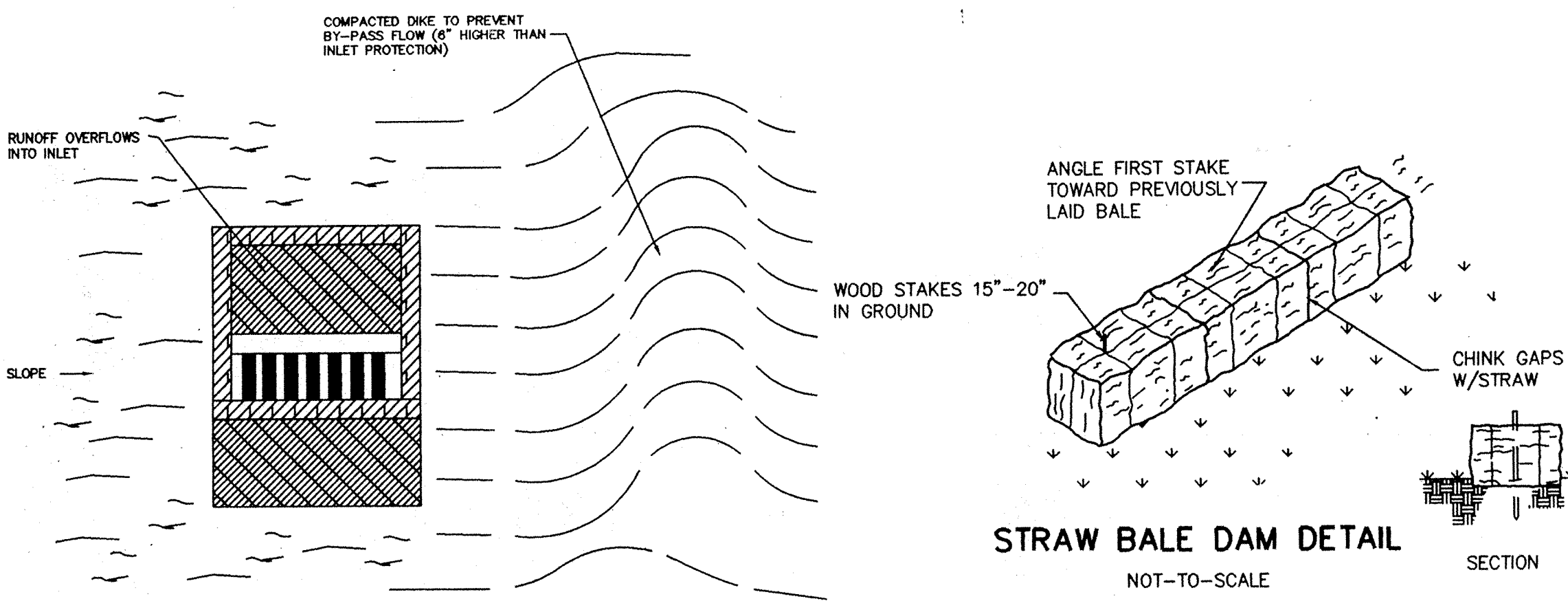
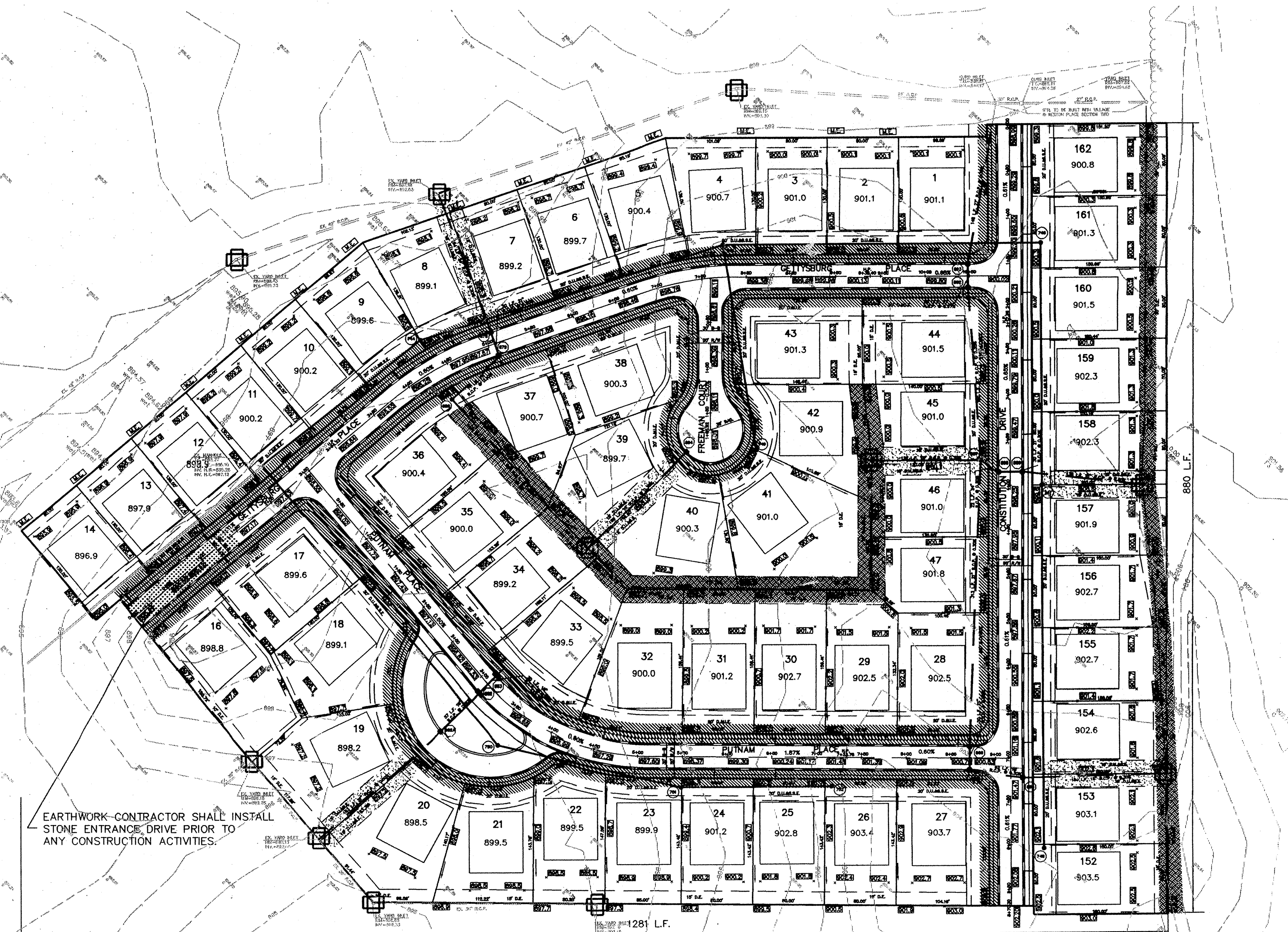
The following is a list in sequence of construction activities to control soil erosion:

- Contractor shall install sediment traps and straw bale filters, as shown.
- Grade the site (sides of swales, mounds and ponds to be seeded and mulched immediately upon completion). Temporary seeding shall be recommended for all swales and disturbed areas that cannot be final seeded within a time period that will prevent slope erosion. For temporary seeding, the contractor shall utilize a fast growing seed of either oats, annual ryegrass, wheat or rye depending on time of year. Disturbed areas should be kept to a minimum at all times.
- Contractor shall control mud accumulation on all streets surrounding project by installing stone surface at all locations where construction traffic leaves the site. Dust shall be kept to a minimum by utilizing sprinkling, Calcium Chloride, Vegetative cover, spray on adhesives or other approved methods.
- Maintain all filters and traps during construction to prevent any blockages from accumulated sediment. Additional seeding and straw bales may be required during construction as specified by Engineer or Soil Conservation Service. Payment for additional straw bales shall be at the Contractor's expense. Payment for additional rip rap (not shown on plans) and seeding shall be paid for on a unit basis.
- Contractor shall install all sanitary sewers, storm sewers, subsurface drains, and water mains. Straw bale filters shall be installed at all storm inlets (including street inlets).

### Seeding Specifications:

- Ditch Banks:** shall be seeded and covered with North American Green fiber blanket #S150 and #S150 (or Equal) or Hydroseeded with straw mulch. The Contractor shall follow the manufacturer's recommended guidelines for installation and staple patterns when installing the fiber blankets.  
 Seeding rate: 100#/acre or 2.5#/1000 S.F.  
 Seeding mixture: 38% Kent. 31 Fescue, 18% Perennial Rye, 10% Annual Rye, 14% Orchard Grass, 10% Kent. Bluegrass
- 4" of topsoil (minimum) shall be placed prior to permanent seeding.
- If grades are established between May 15 and August 10, a temporary seeding consisting of 40# of Annual Ryegrass shall be planted per acre.
- If grades are established between October 15 and December 30, either Rye (groin) or Wheat may be used at the rate of 2 bushels/Ac. All grains should be mowed prior to seed maturing.
- If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.
- If grading occurs during December, January, or February, use dormant seeding and it should be done within 7 days of top land disturbing activity.

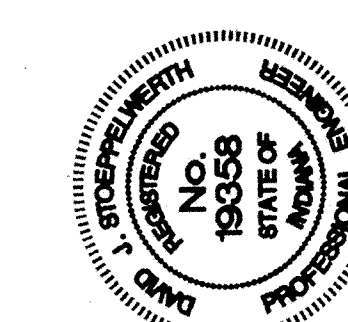
EARTHWORK-CONTRACTOR SHALL INSTALL STONE ENTRANCE DRIVE PRIOR TO ANY CONSTRUCTION ACTIVITIES.



**SEASONAL SOIL PROTECTION CHART**

STABILIZATION PRACTICES	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING	A											
DORMANT SEEDING	B											
SEEDING	C											
MULCHING	D											

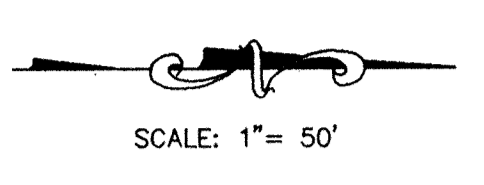
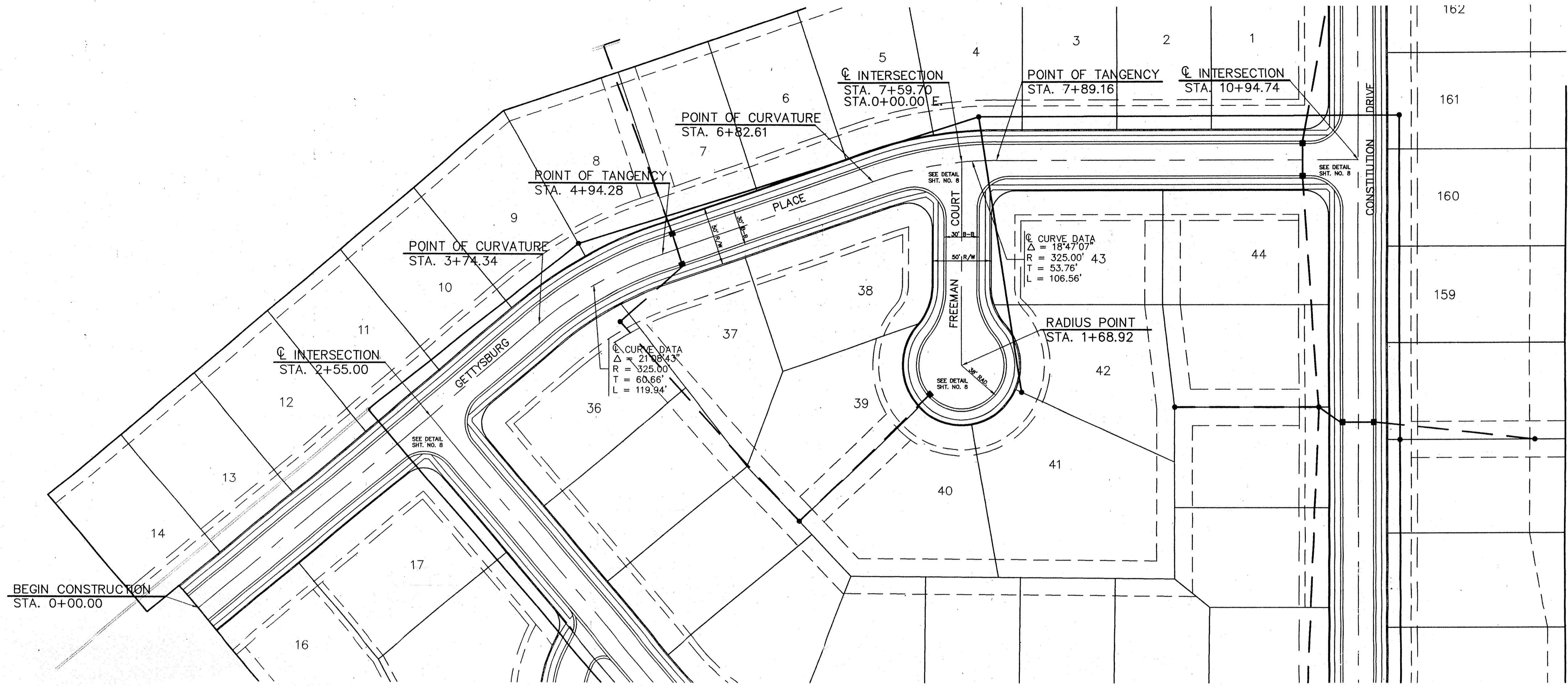
A = KENTUCKY BLUE GRASS 40 #/AC. CREEPING RED FESCUE 40 #/AC. PLUS 2 TONS STRAW MULCH/AC. OR ADD ANNUAL RYEGRASS 200#/AC.  
 B = KENTUCKY BLUE GRASS 80 #/AC. CREEPING RED FESCUE 80 #/AC. PLUS 2 TONS STRAW MULCH/AC. OR ADD ANNUAL RYEGRASS 300#/AC.  
 C = SPRING OATS 3 BUSH/AC. OR ADD ANNUAL RYEGRASS 300#/AC.  
 D = WHEAT OR RYE 2 BUSH/AC.  
 E = ANNUAL RYEGRASS 40 #/AC. (1 #/1000 sq. ft.)  
 F = SOD  
 G = STRAW MULCH 2 TONS/AC.  
 // // = IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPT.  
 // // = IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD



CONSULTING ENGINEERS - LAND SURVEYORS  
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 INDIANAPOLIS INDIANA

EROSION CONTROL PLAN  
 THE PARK @ WESTON PLACE  
 SECTION TWO

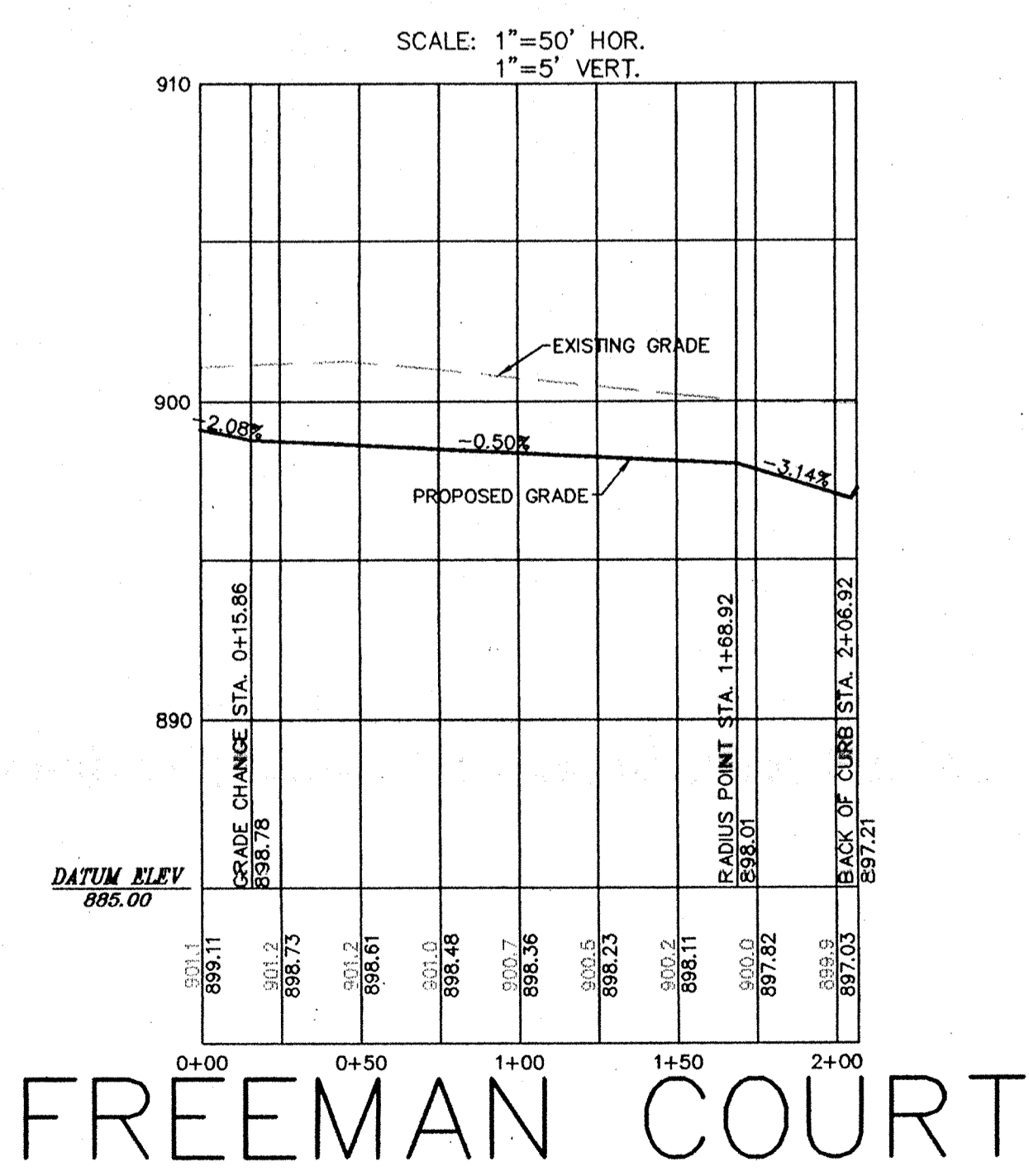
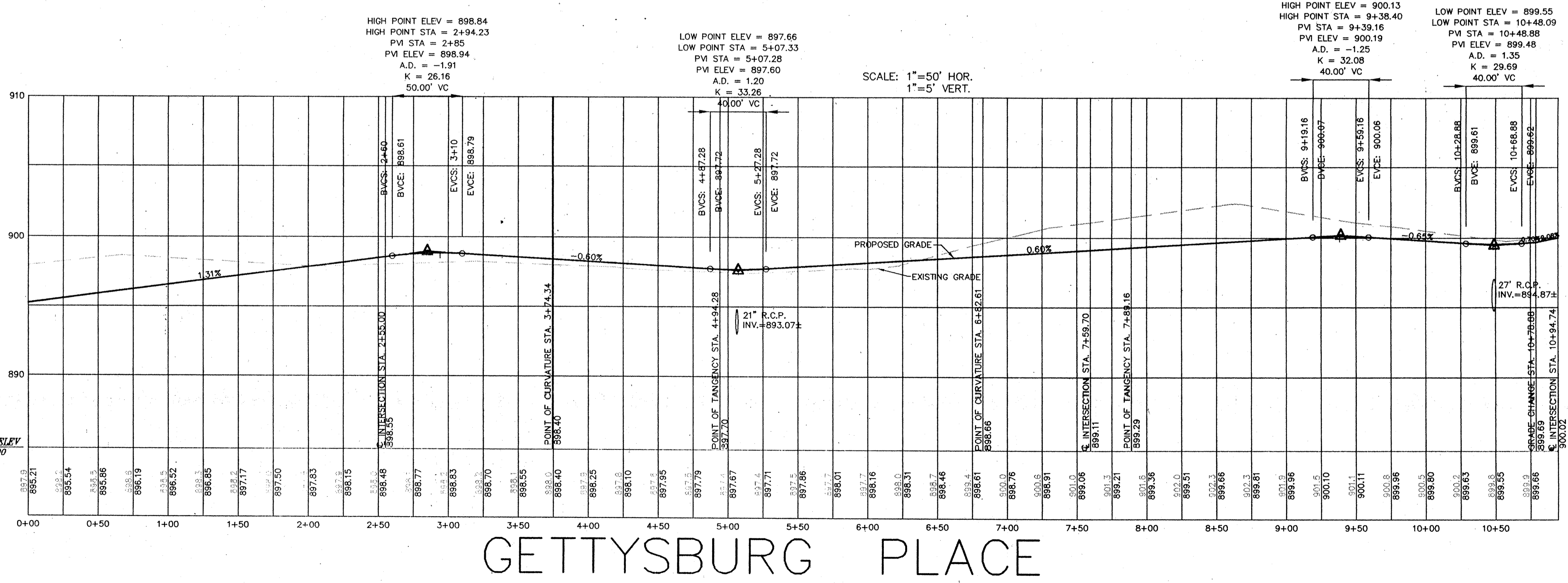
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 SHEET NO. 4  
 OF 19 SHEETS  
 JOB NO. 19584B



CERTIFIED:	3/15/96
DRAWN BY:	WAB
CHECKED BY:	WAB
SCALE:	1"=50'
DATE:	3/15/96
BY:	REVISIONS

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 INDIANAPOLIS INDIANA

STREET PLAN & PROFILES  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 CARMEL INDIANA



GETTYSBURG PLACE

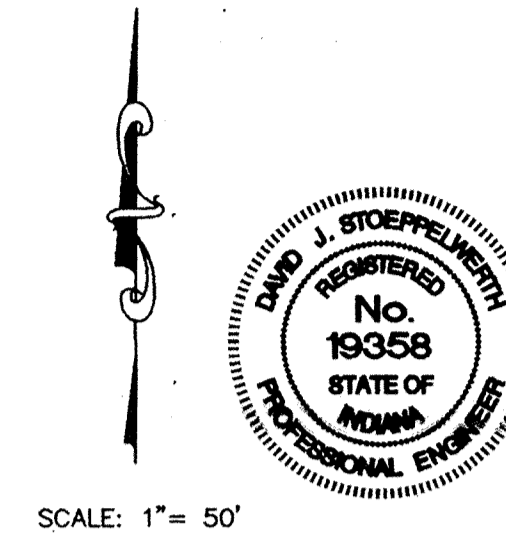
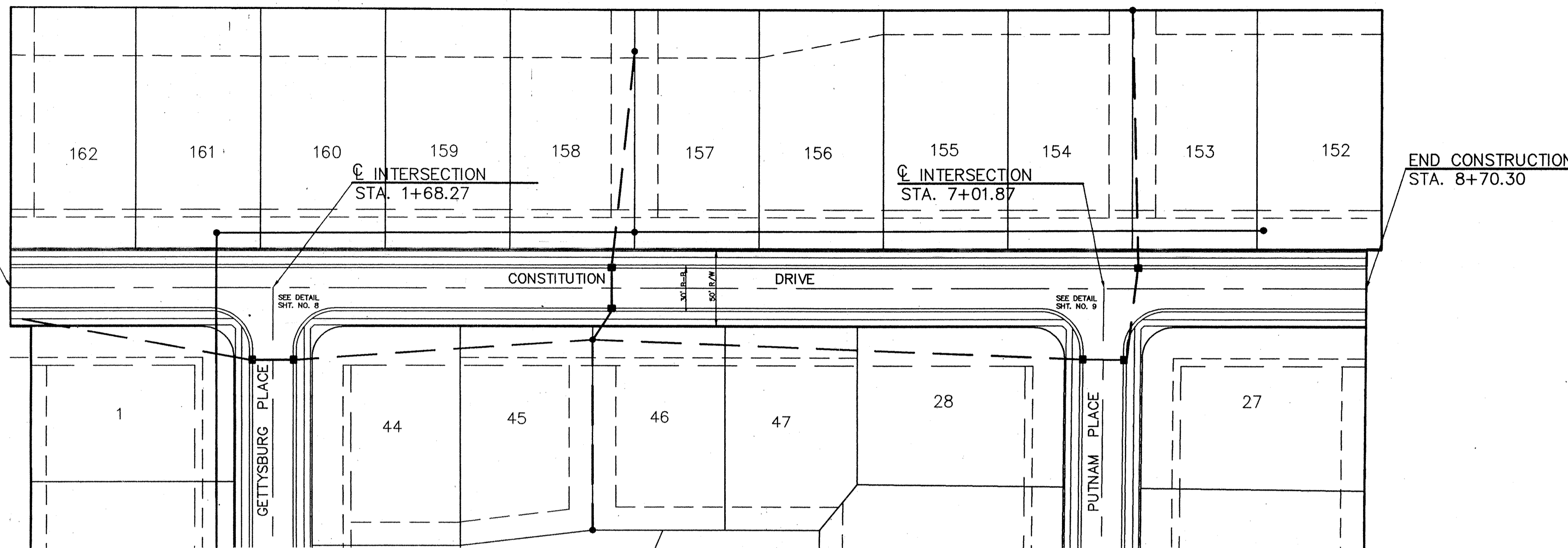
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 MAR 18 1996  
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 SHEET NO. 5 OF 19 SHEETS  
 JOB NO. 19584B

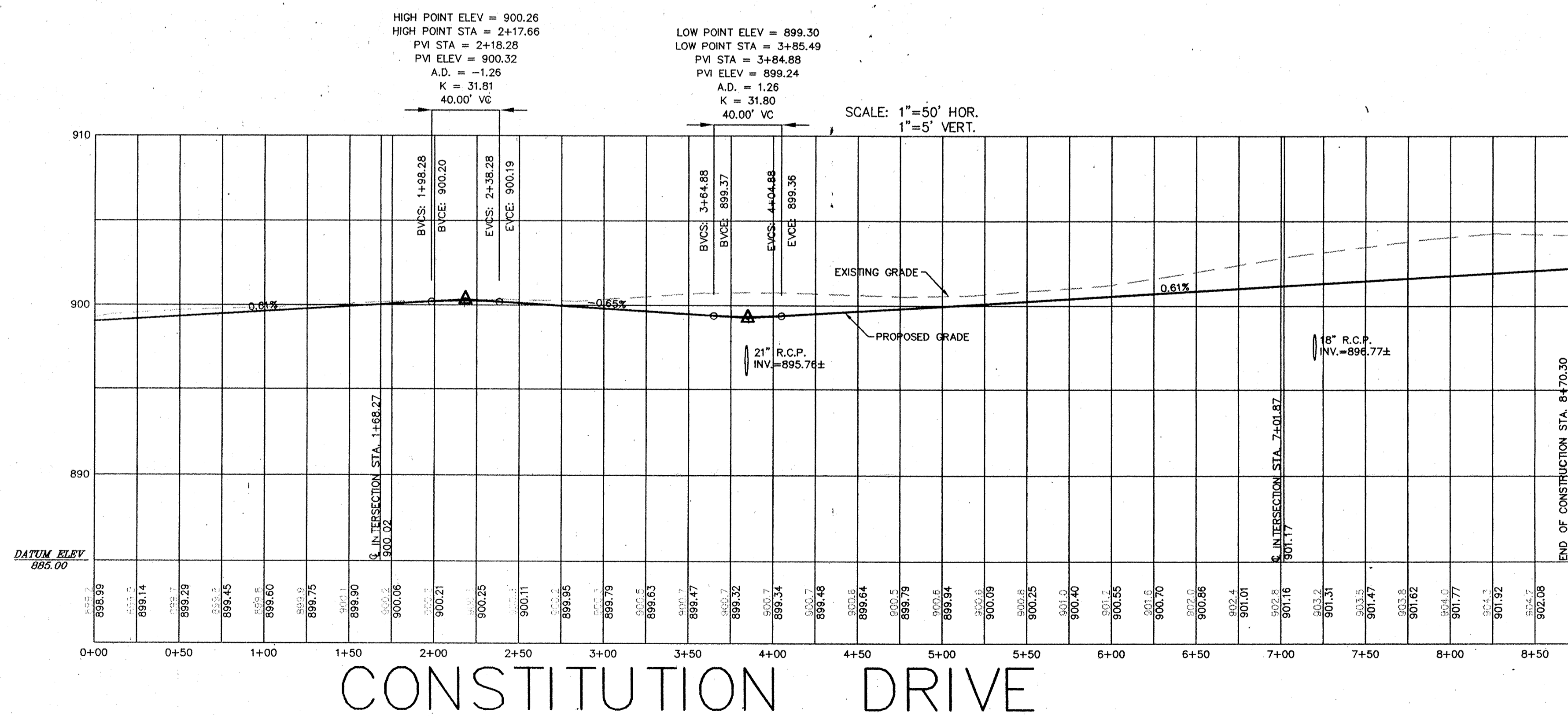
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BEGIN CONSTRUCTION  
STA. 0+00.00



SCALE: 1" = 50'



OWN. BY	DATE	BY
WAB	3/15/96	REVISIONS
WAB		
SCALE		
1"=50'		
DATE		
3/15/96		

CERTIFIED: 3/15/96  
*David J. Steppeworth*  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 19358  
 STATE OF INDIANA

CONSULTING ENGINEERS - LAND SURVEYORS  
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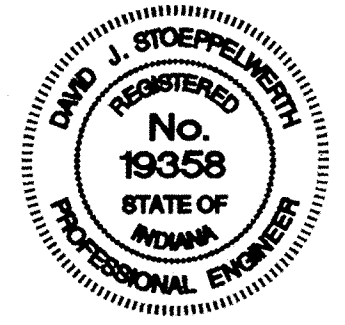
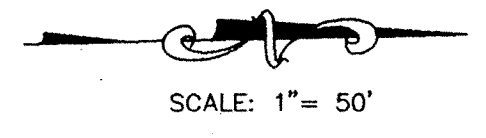
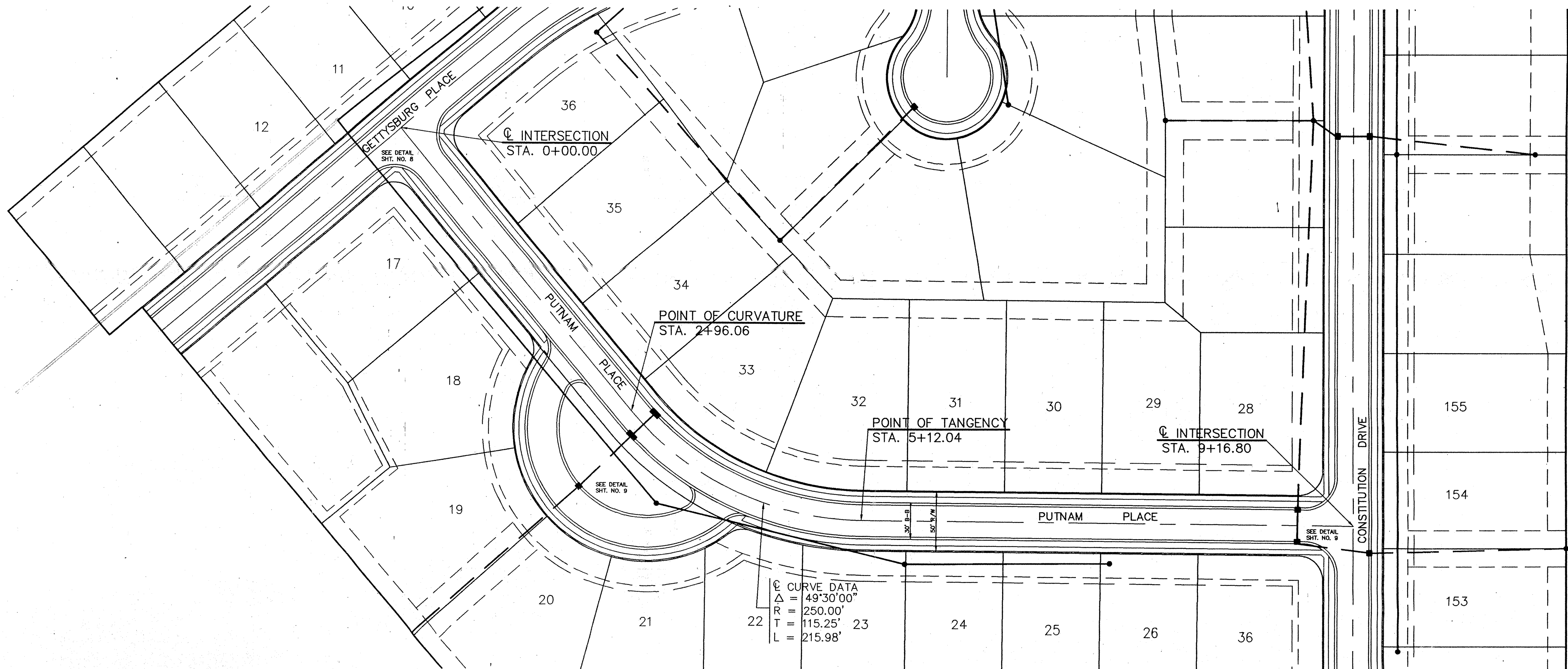
INDIANA  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 CARMEL

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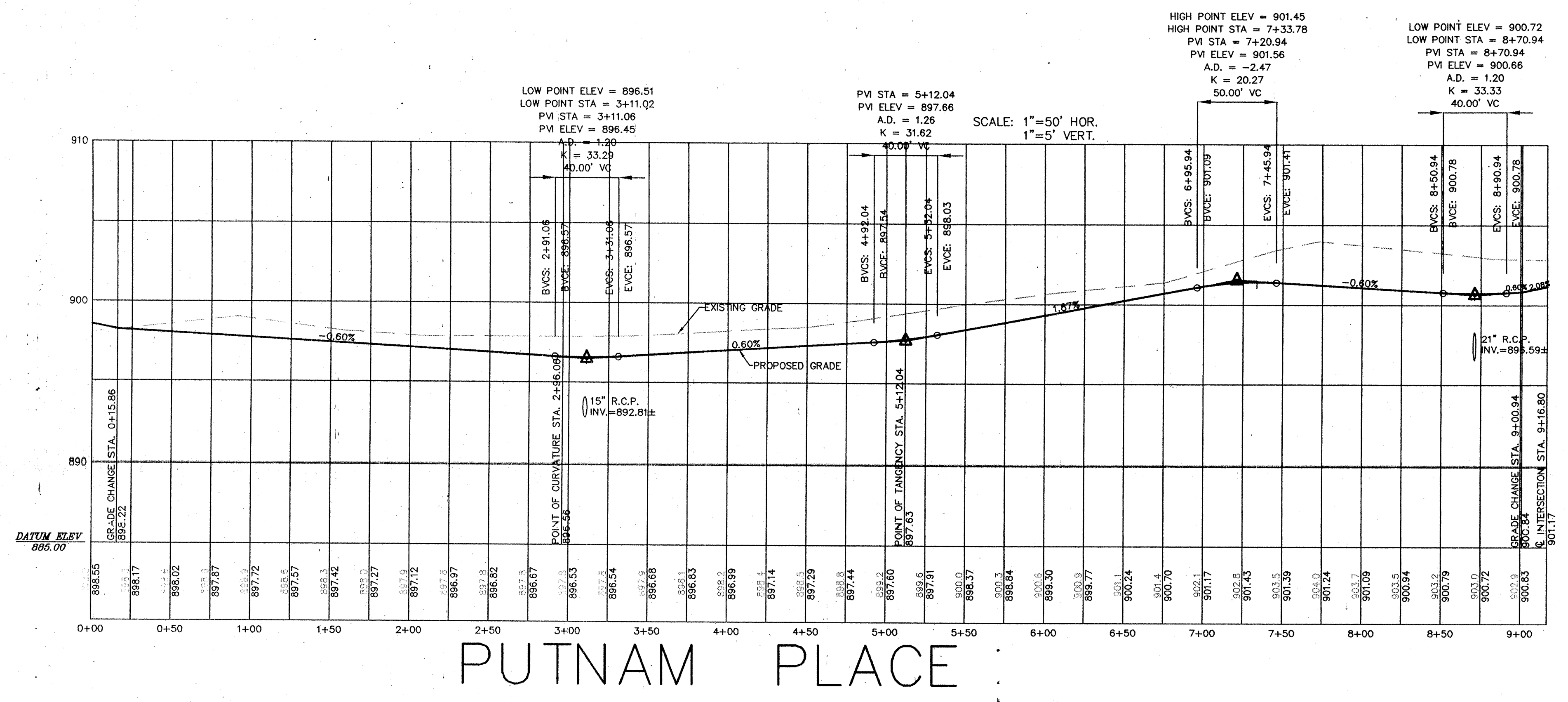
MAR 18 1996

OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET NO. 0  
 OF 19 SHEETS  
 JOB NO. 19584B



C CURVE DATA  
 $\Delta = 49^{\circ}30'00''$   
 $R = 250.00'$   
 $T = 115.25'$   
 $L = 215.98'$



PUTNAM PLACE

OWN. BY: \_\_\_\_\_  
 WAB: \_\_\_\_\_  
 DATE: 3/15/96  
 SCALE: 1" = 50'  
 DATE: 3/15/96

CERTIFIED: 3/15/96  
 David J. Stappert  
 REGISTERED PROFESSIONAL ENGINEER  
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 STATE OF INDIANA

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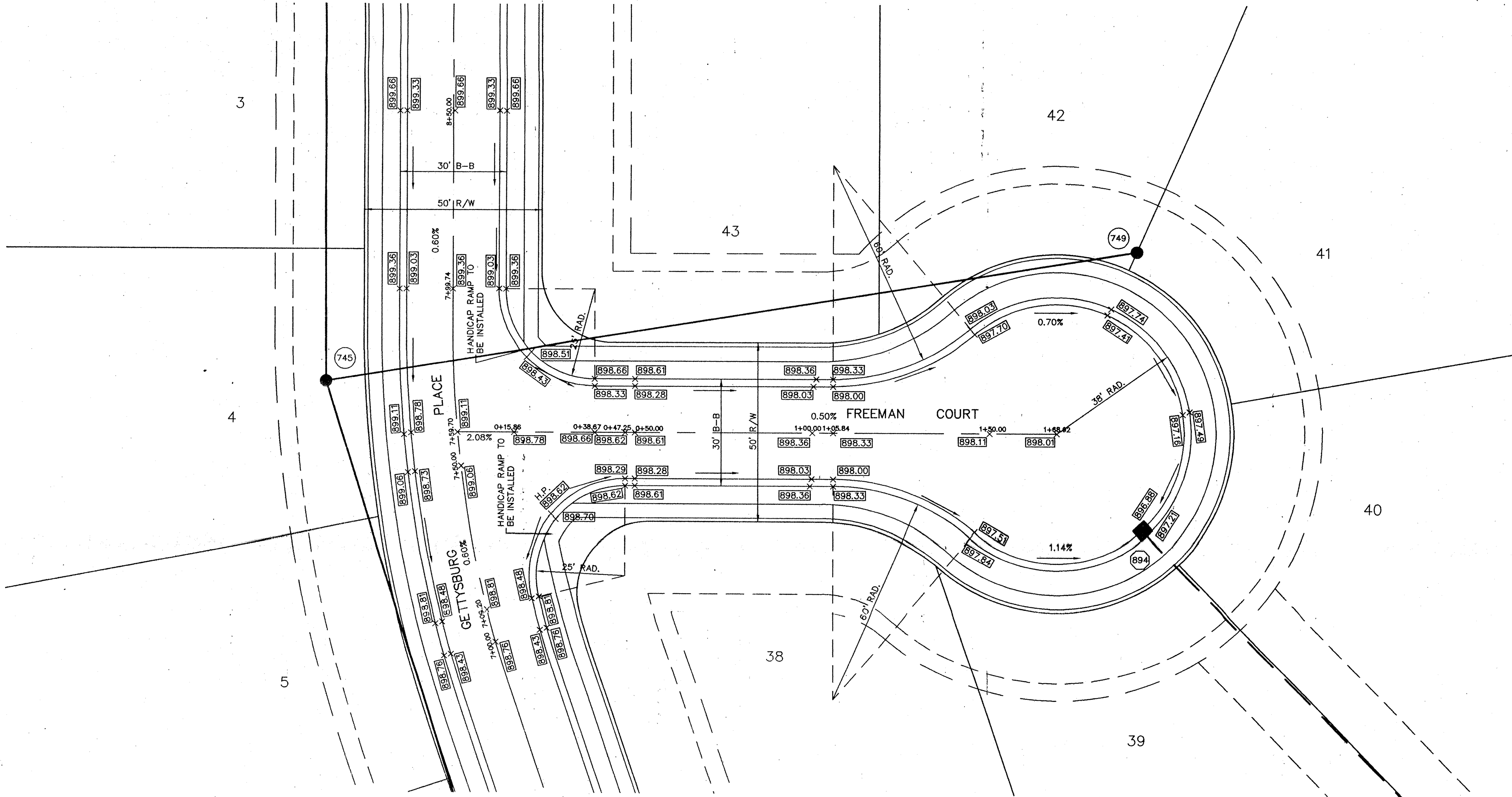
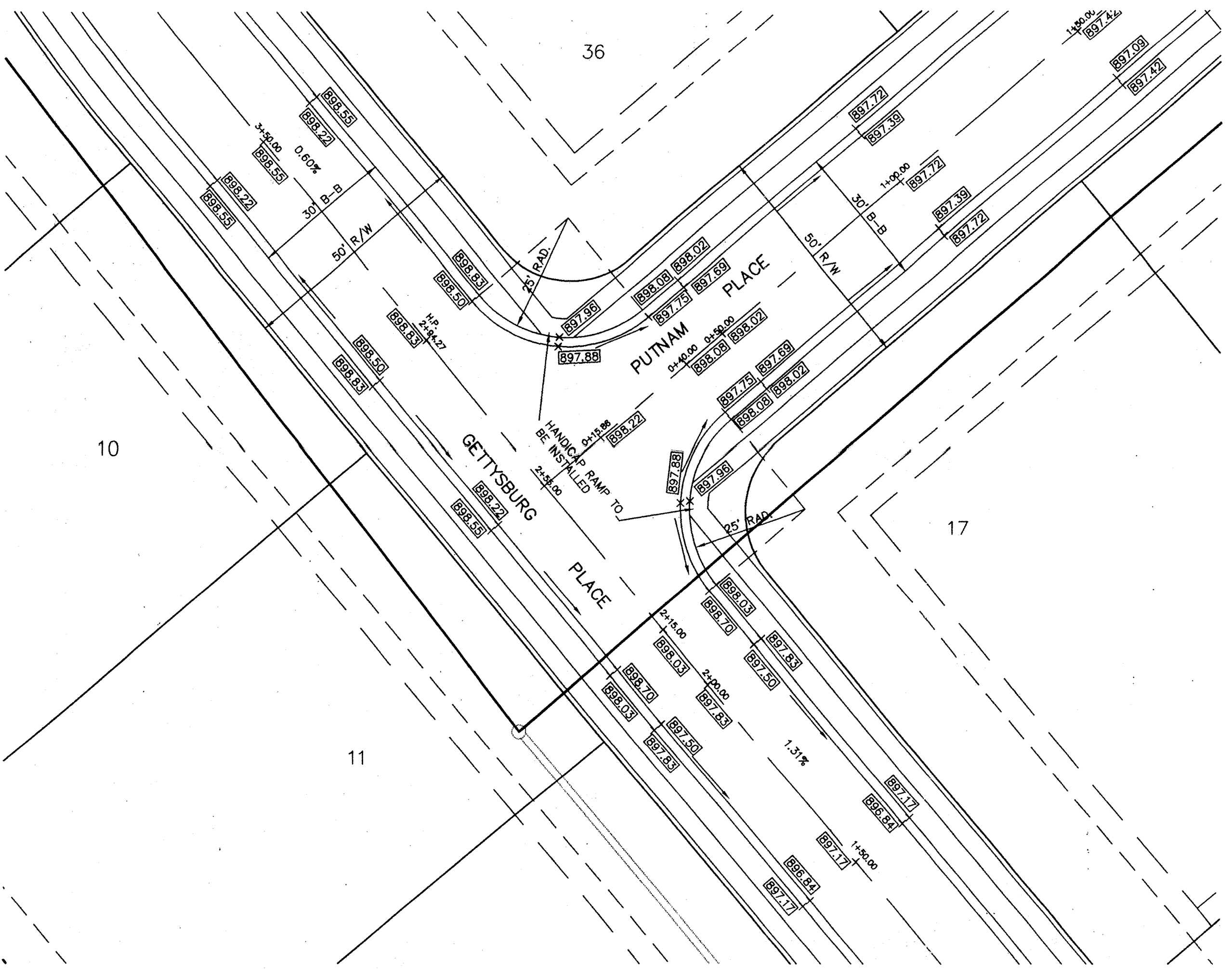
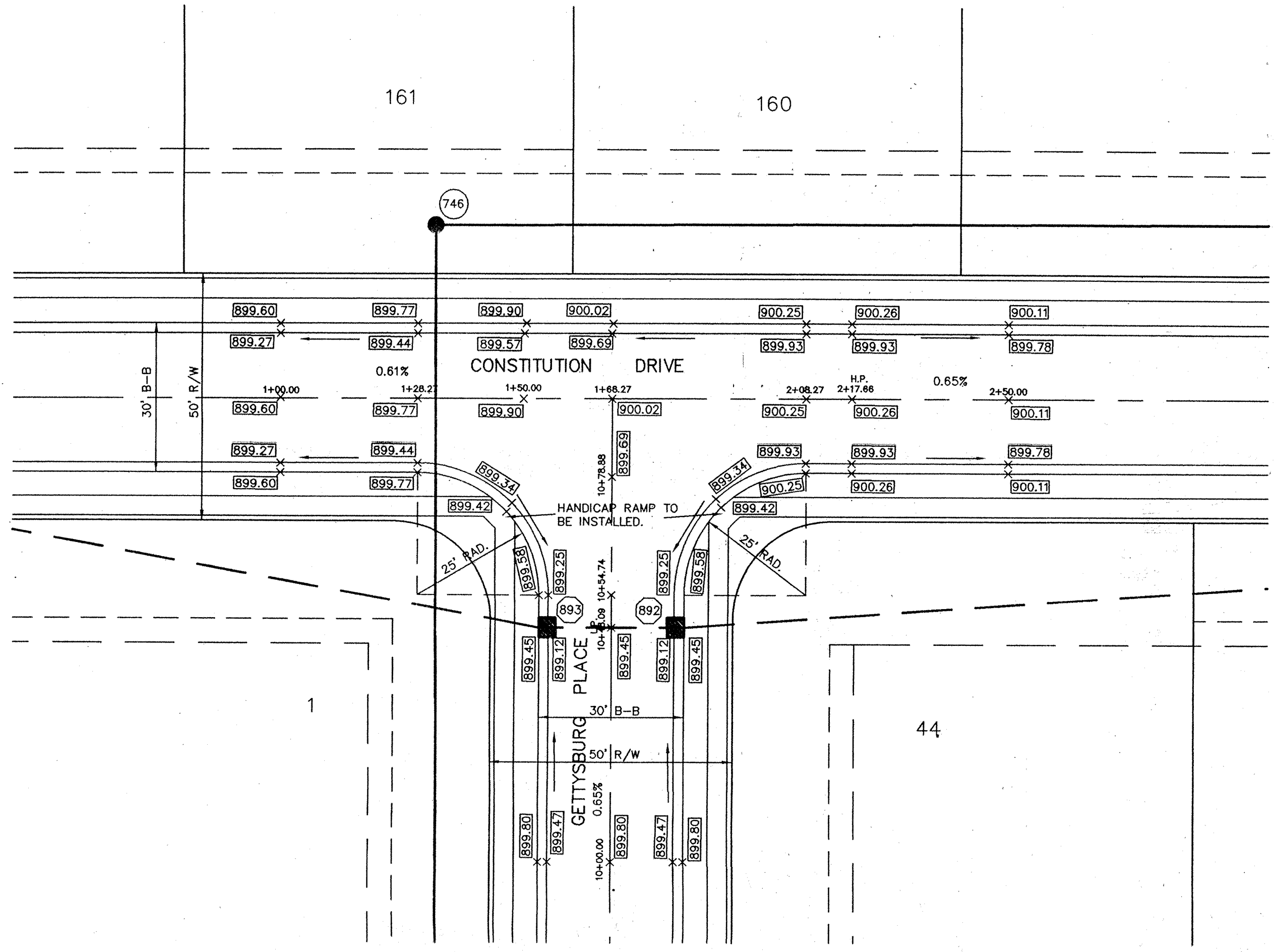
STREET PLAN & PROFILES  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 CARMEL INDIANA

SHEET NO. 7  
 OF 19 SHEETS  
 JOB NO. 19584B

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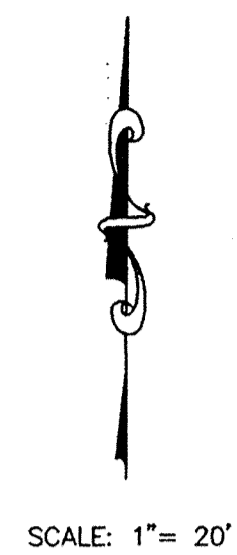
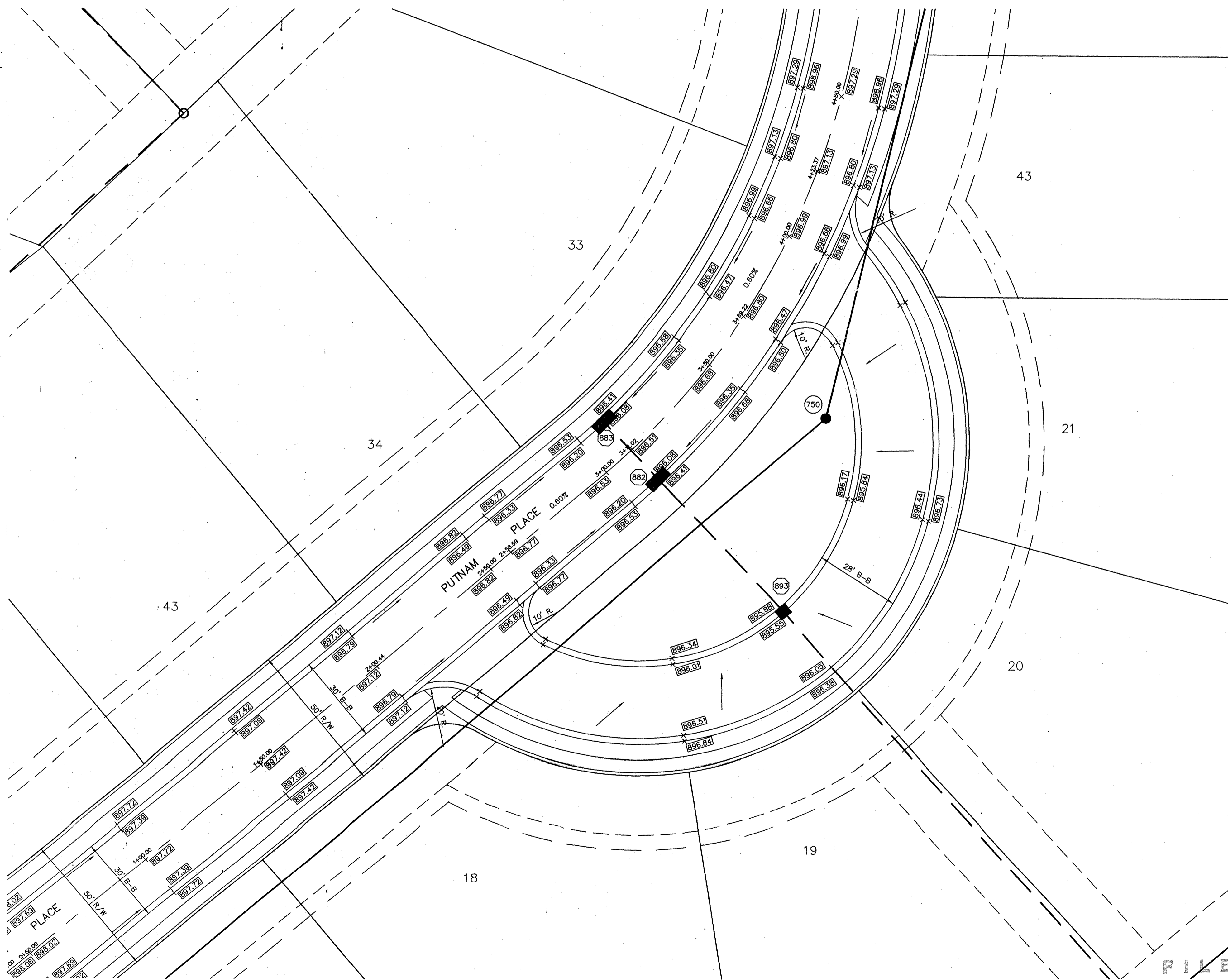
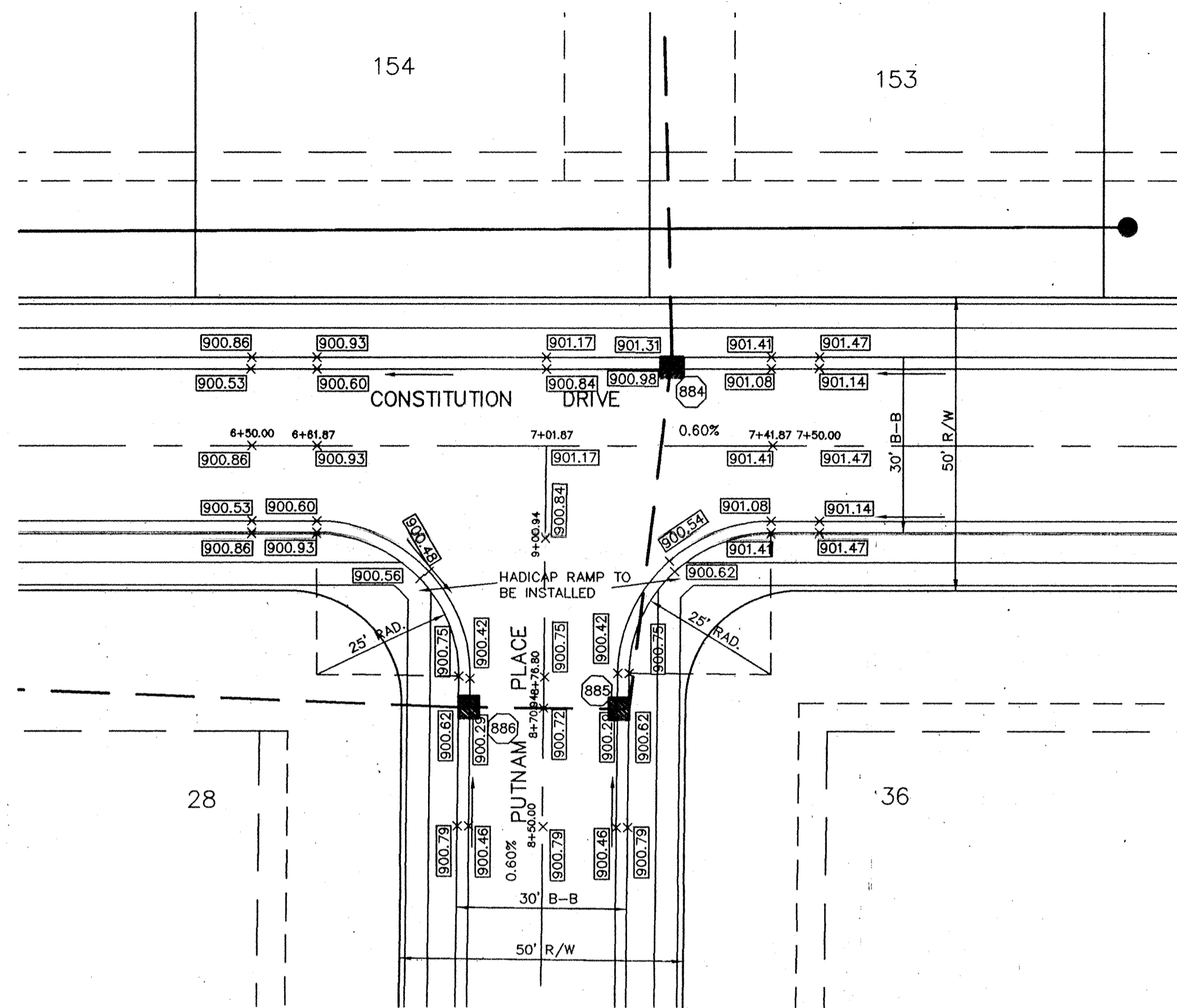
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DAVID J. STOEPPELWIRTH  
REGISTERED  
No. 19358  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

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INTERSECTION DETAILS			
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SECTION TWO			
CARMEL			
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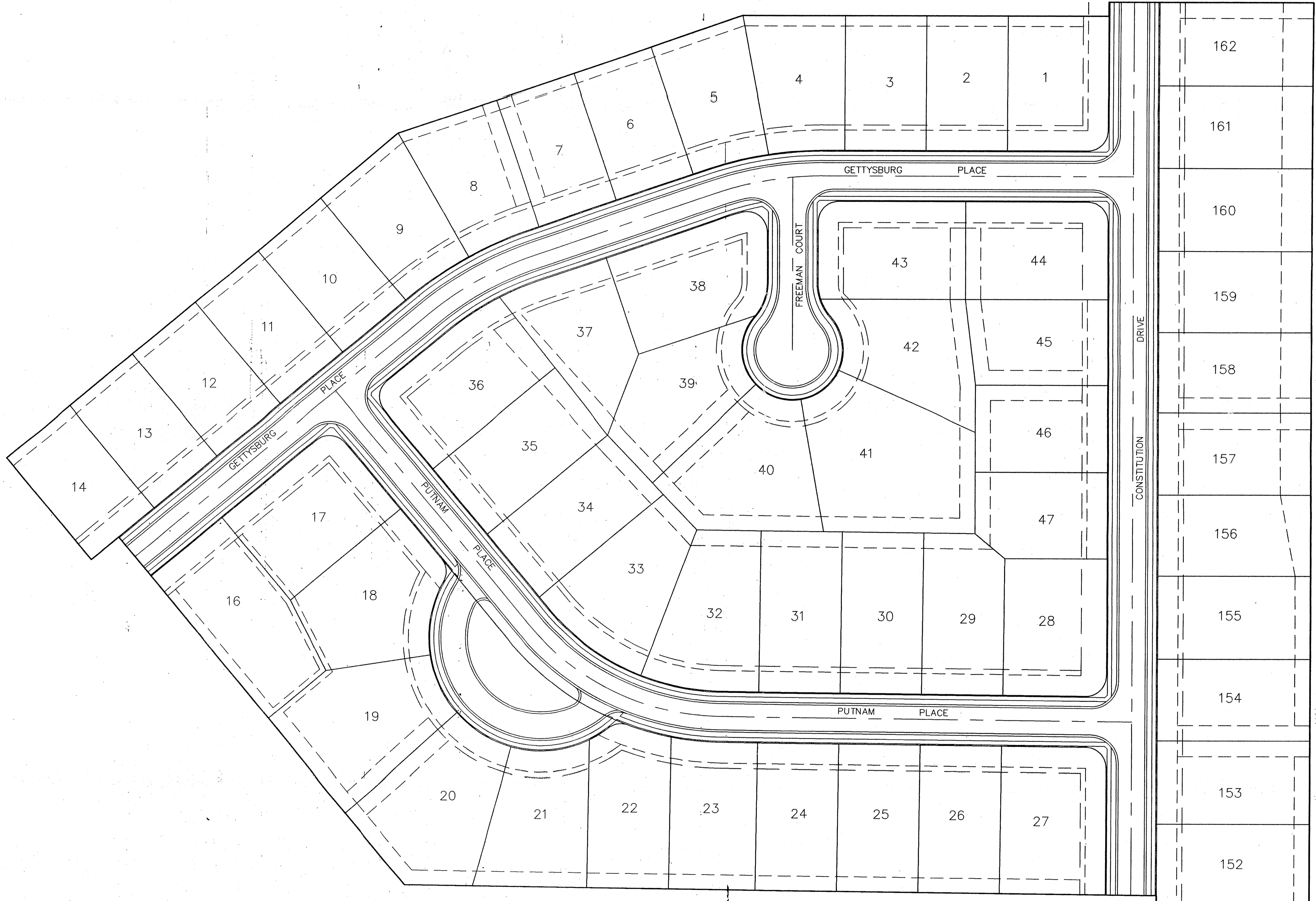
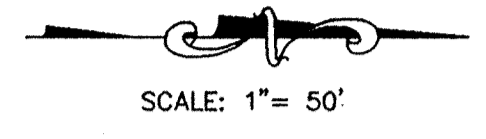
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*David J. Stappell*  
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**INTERSECTION DETAILS**  
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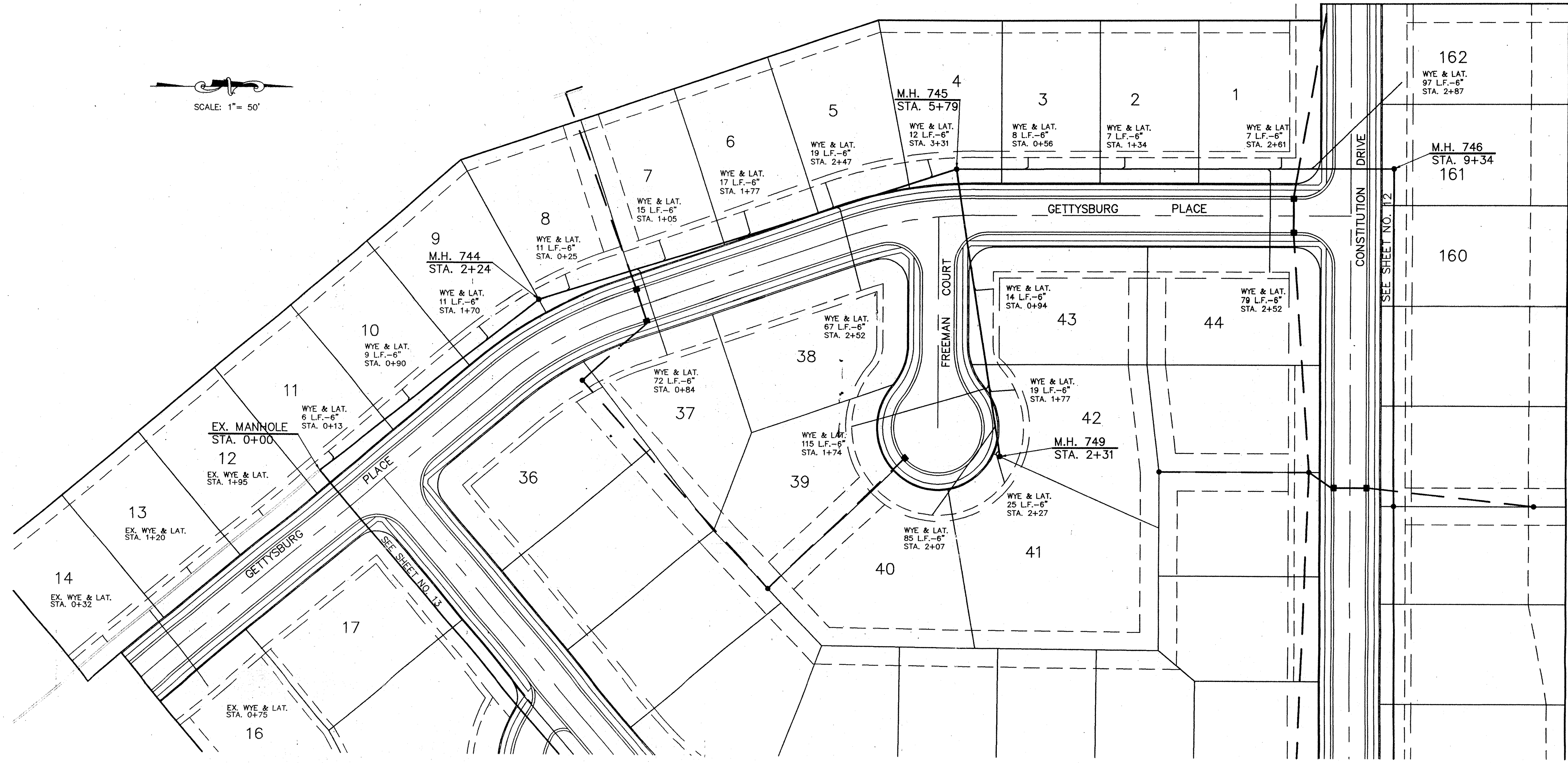
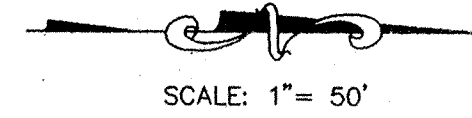
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*David J. Stoppelmeier*  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 19358  
 STATE OF INDIANA

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**TRAFFIC CONTROL PLAN**  
**THE PARK @ WESTON PLACE**  
**SECTION TWO**

CARMEL INDIANA

SHEET NO. **10**  
 OF 19 SHEETS  
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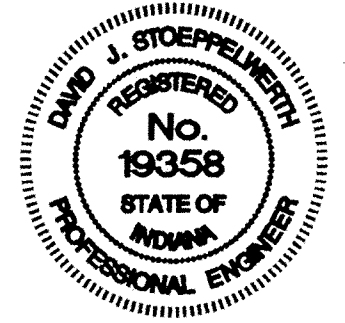
**NOTES**

FULL DEPTH GRANULAR BACKFILL SHALL BE INSTALLED ON ALL SEWER LATERAL STREET CROSSINGS & COMPACTED PER I.D.O.H. STANDARDS.

MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

CONTRACTOR SHALL EXTEND SEWER LATERALS AS SHOWN. IN NO CASE SHALL END OF LATERAL BE CLOSER THAN 5' TO BUILDING SETBACK LINE.

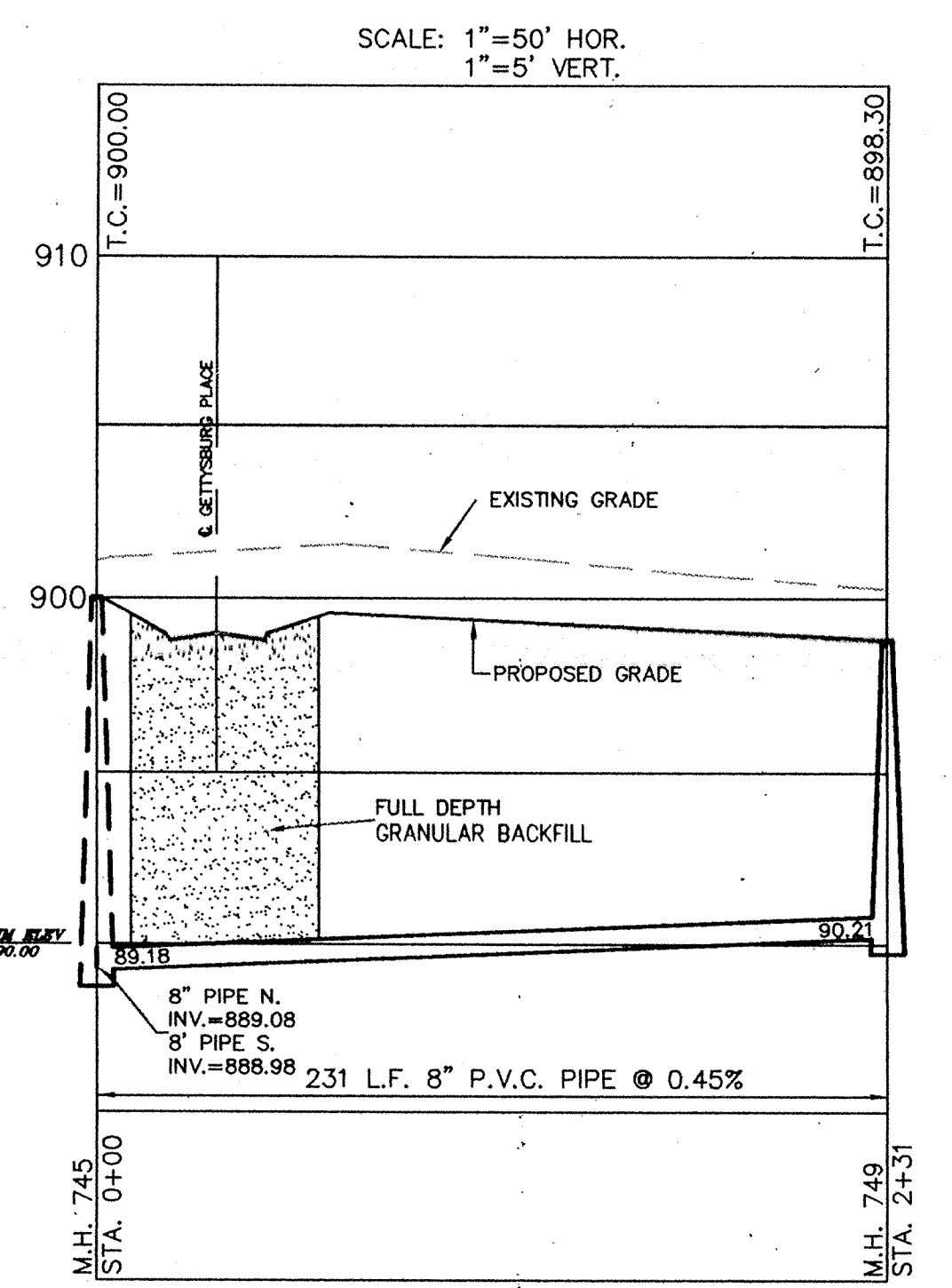
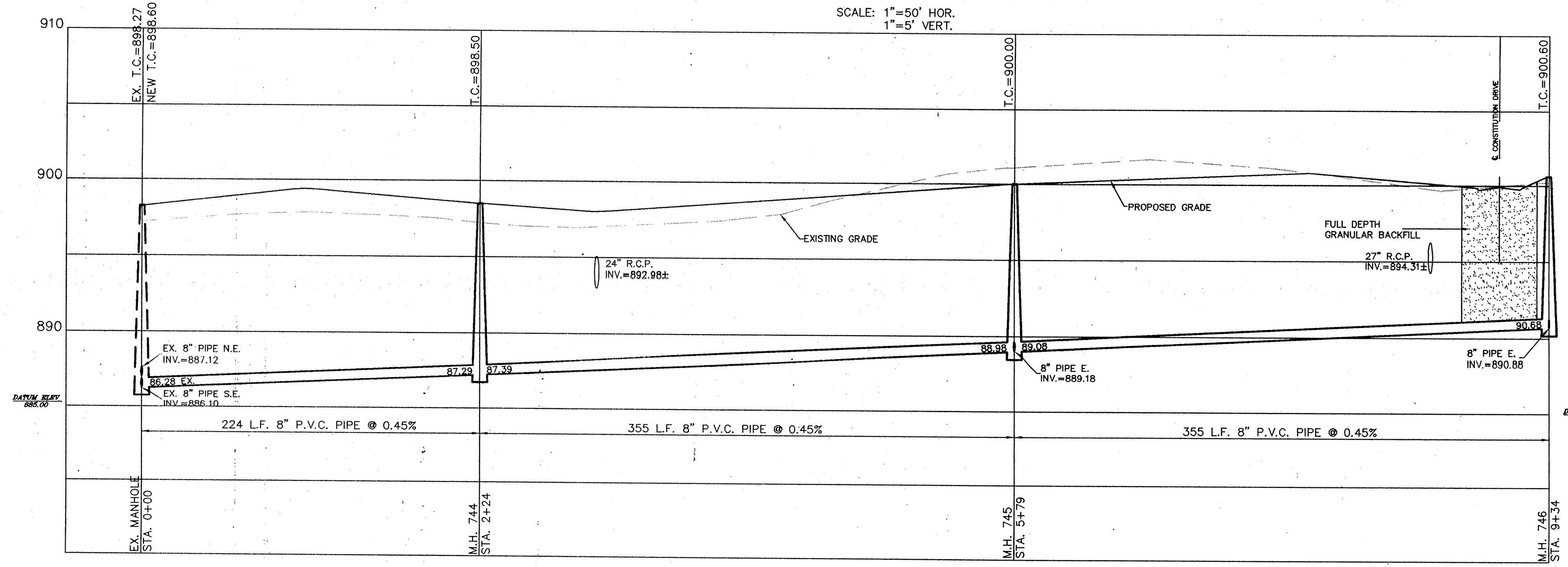
LATERAL FOR LOT 12-14 & 16 WAS TO BE BUILT WITH SECTION ONE. THE CONTRACTOR OF SECTION ONE DID NOT PROVIDE ASBUILT WYE LOCATIONS & THERE IS NO SURFACE EVIDENCE OF THE LATERALS DEVELOPER SHALL OBTAIN THESE ASBUILTS IF THEY WERE CONSTRUCTED.



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SANITARY SEWER PLAN & PROFILE  
 THE PARK @ WESTON PLACE  
 SECTION TWO

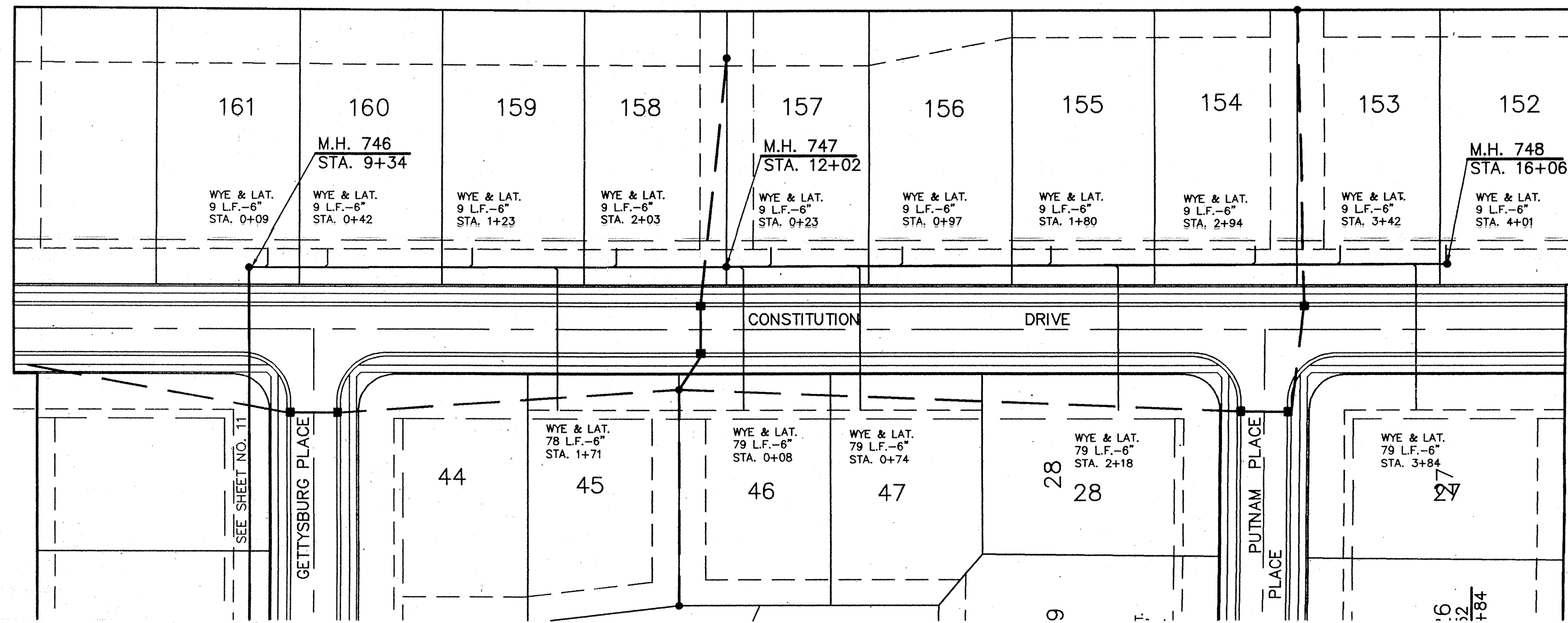
SHEET NO. 11  
 OF 19 SHEETS  
 JOB NO. 19584B

**NOTES**

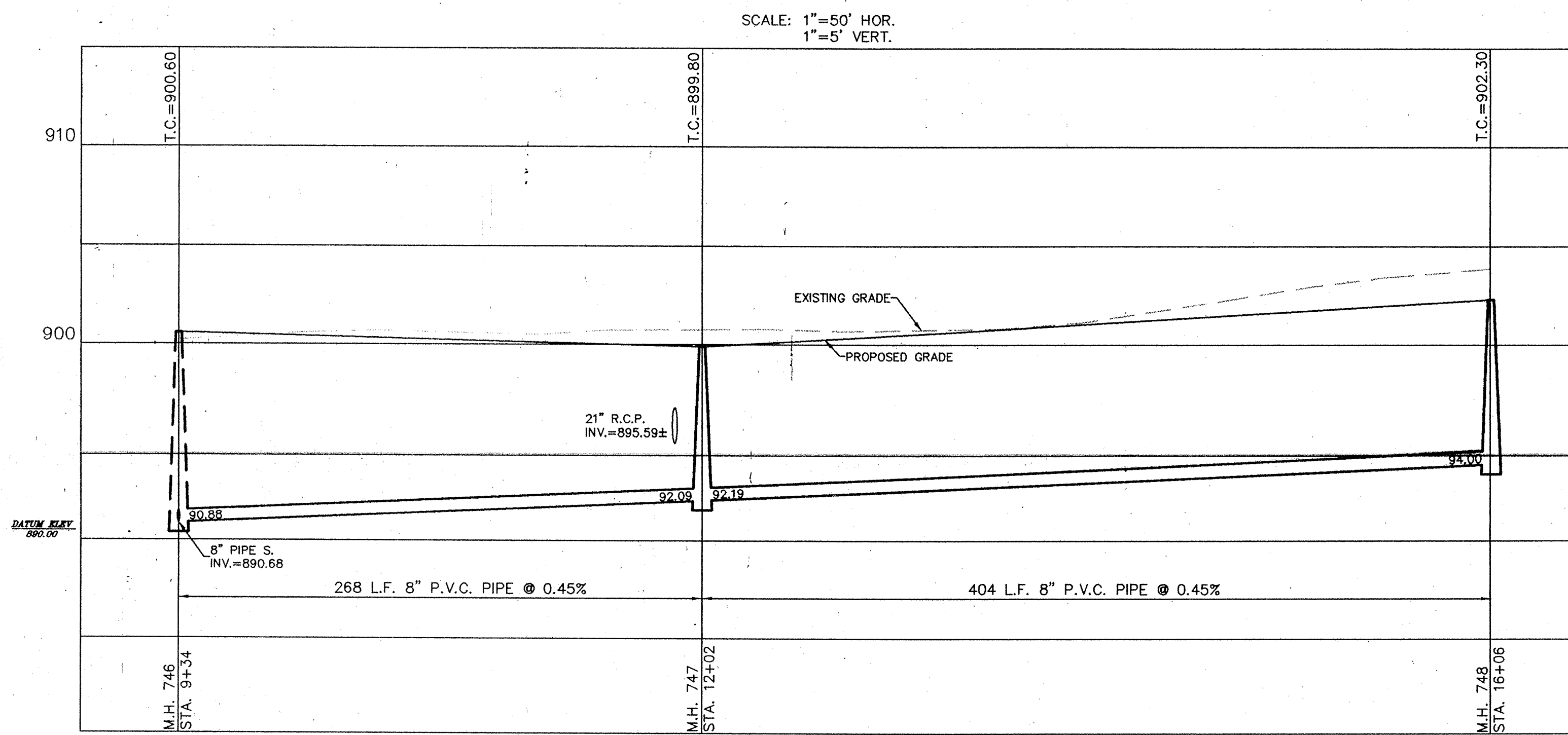
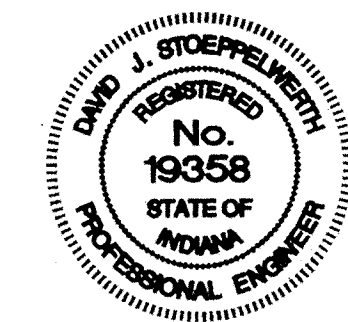
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David J. Steppeworth  
REGISTERED PROFESSIONAL ENGINEER  
No. 19358  
STATE OF INDIANA

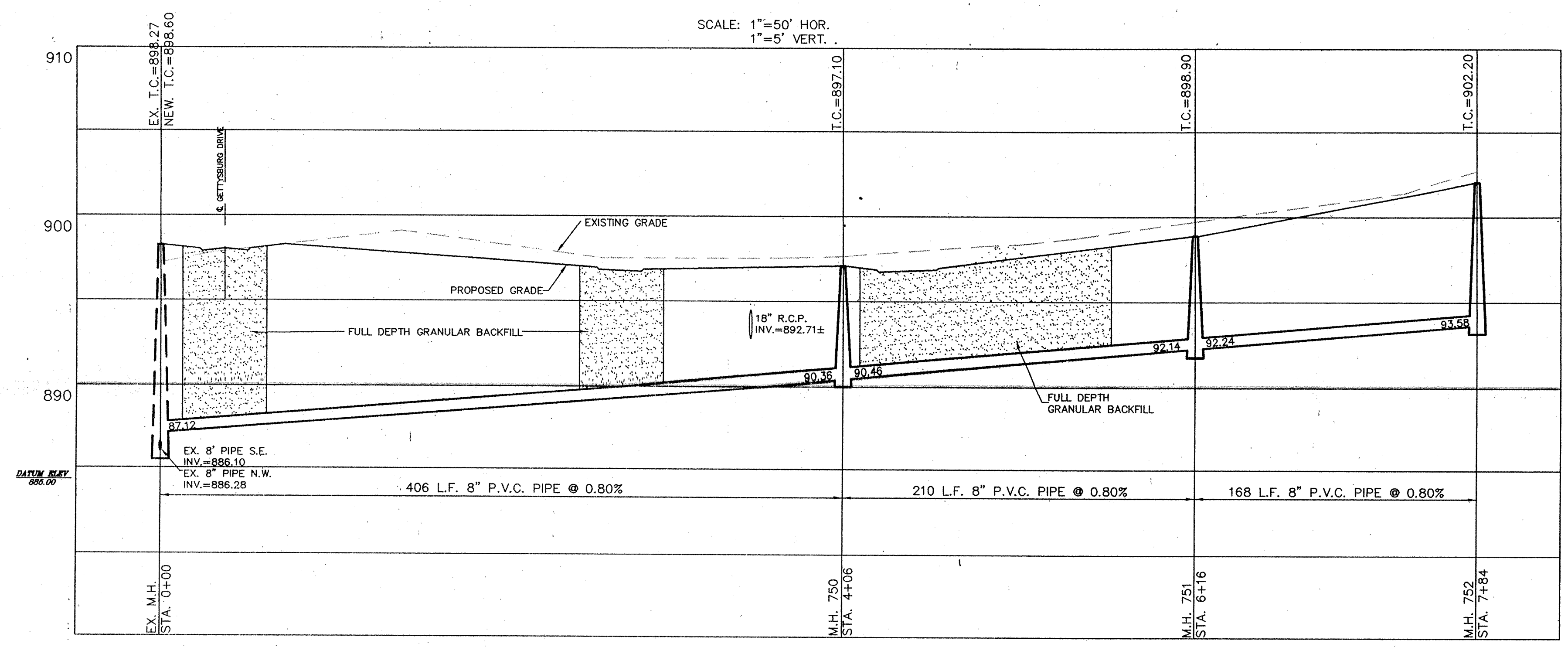
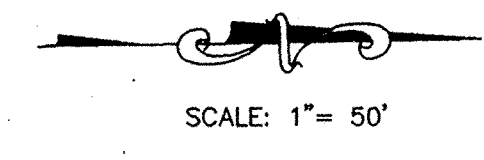
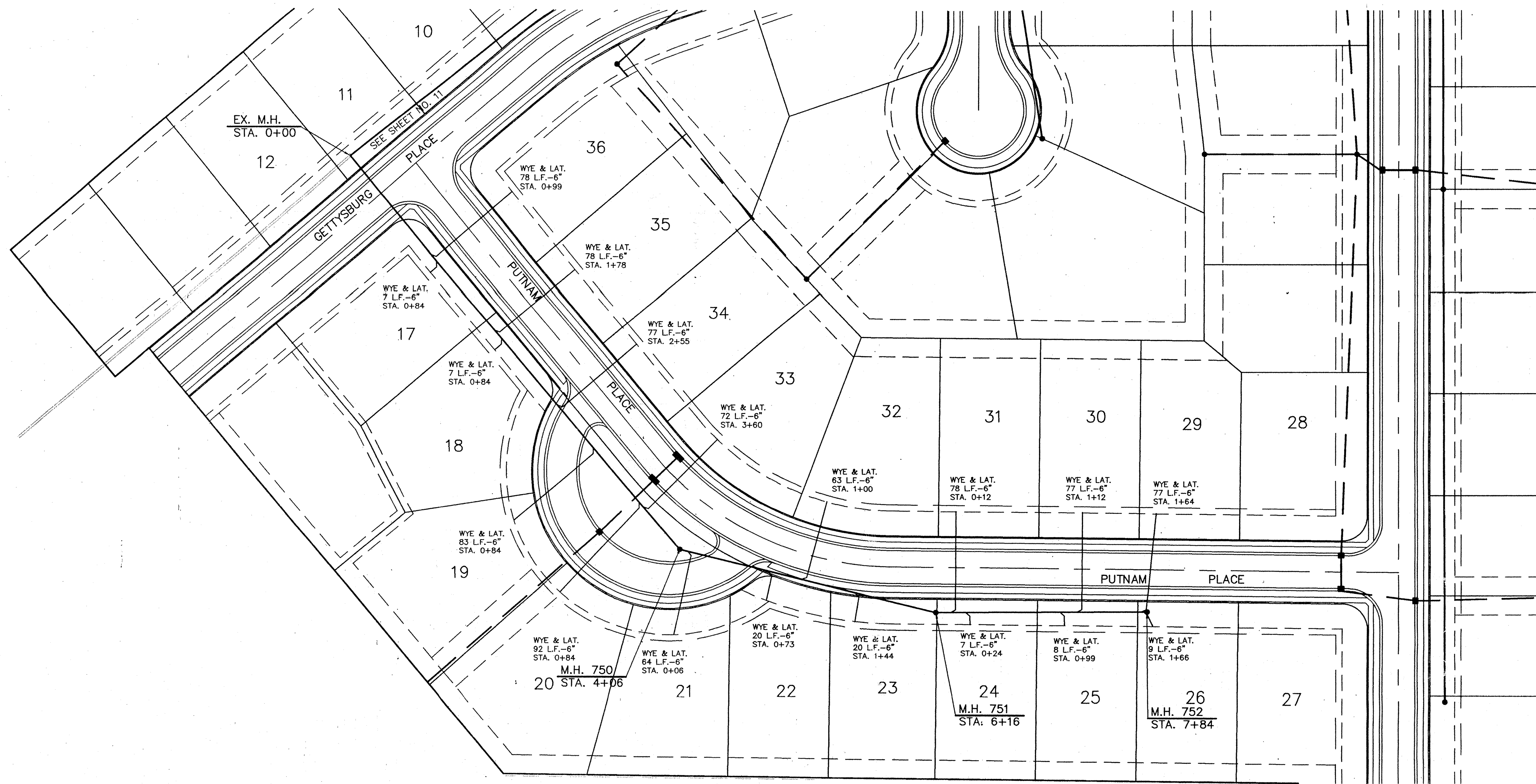
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**SANITARY SEWER PLAN & PROFILE**  
**THE PARK @ WESTON PLACE**  
**SECTION TWO**

SHEET NO. 12  
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JOB NO. 19584B

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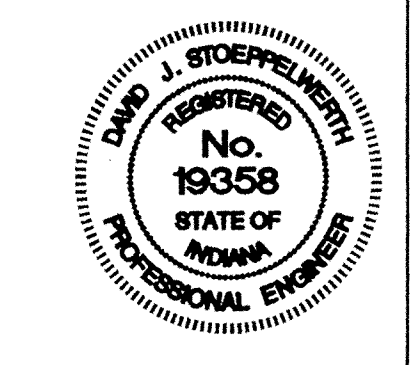


**NOTES**

FULL DEPTH GRANULAR BACKFILL SHALL BE INSTALLED ON ALL SEWER LATERAL STREET CROSSINGS & COMPACTED PER I.D.O.H. STANDARDS.

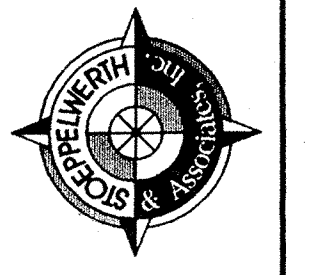
MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

CONTRACTOR SHALL EXTEND SEWER LATERALS AS SHOWN. IN NO CASE SHALL END OF LATERAL BE CLOSER THAN 5' TO BUILDING SETBACK LINE.



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DAVID J. STOEPPER, REGISTERED PROFESSIONAL ENGINEER, No. 19358, STATE OF INDIANA

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INDIANA

STORM SEWER PLAN & PROFILES

THE PARK @ WESTON PLACE

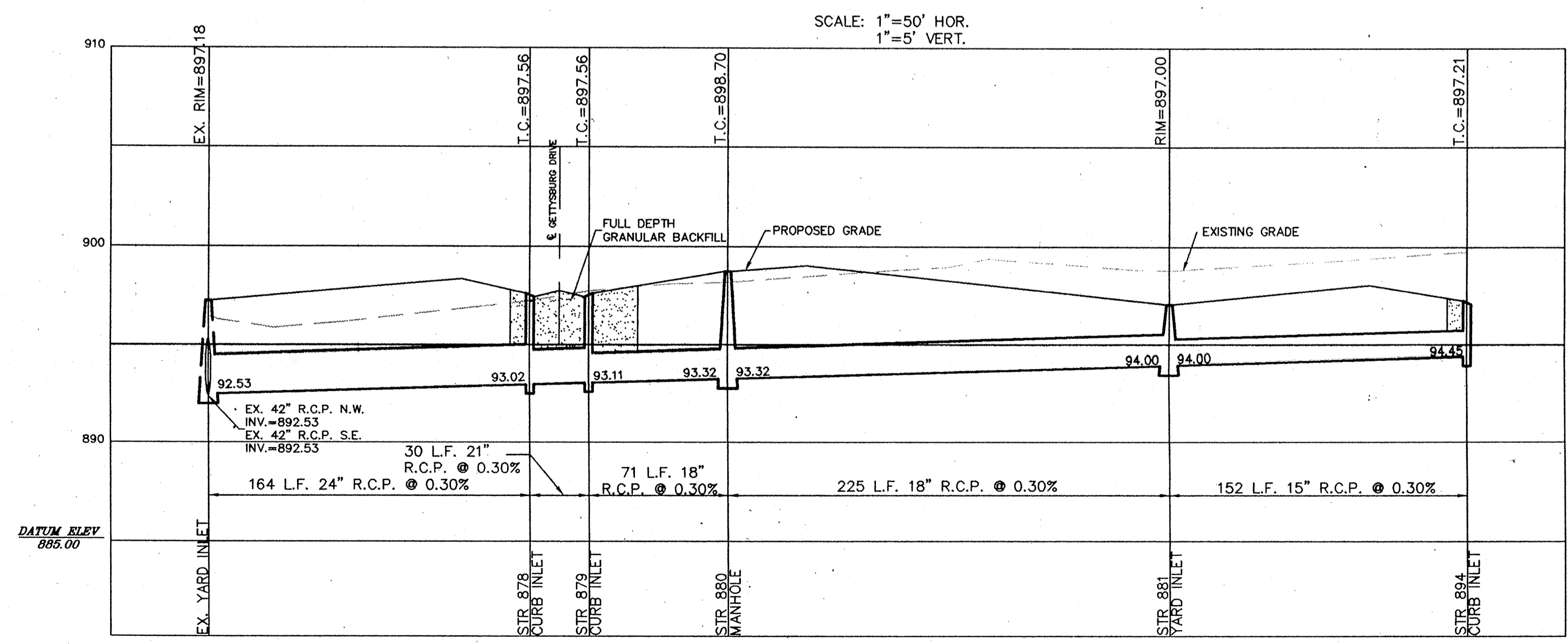
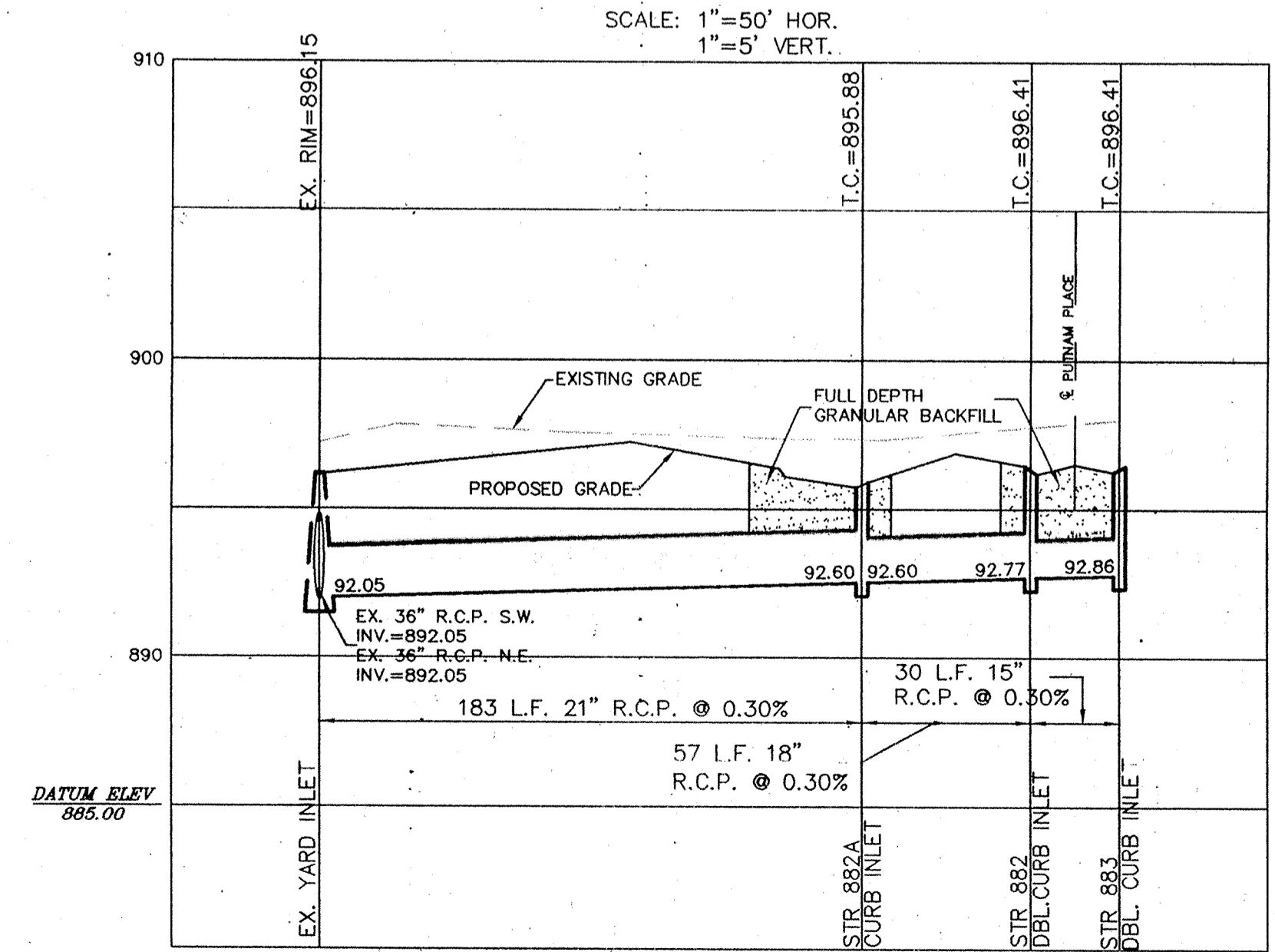
SECTION TWO

CARMEL

SHEET NO. 14

OF 19 SHEETS

JOB NO. 19584

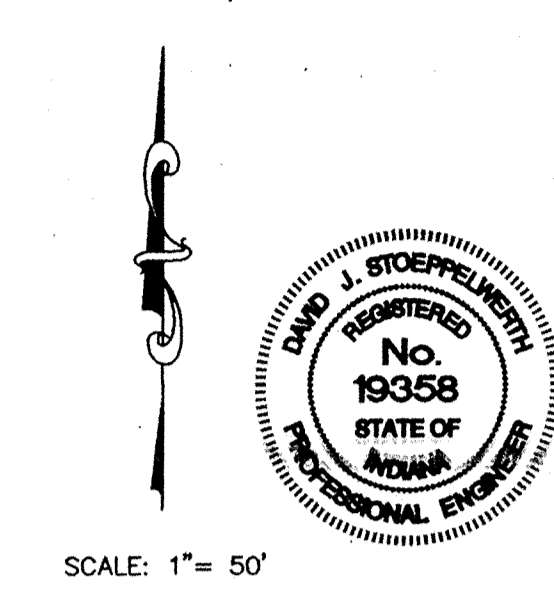
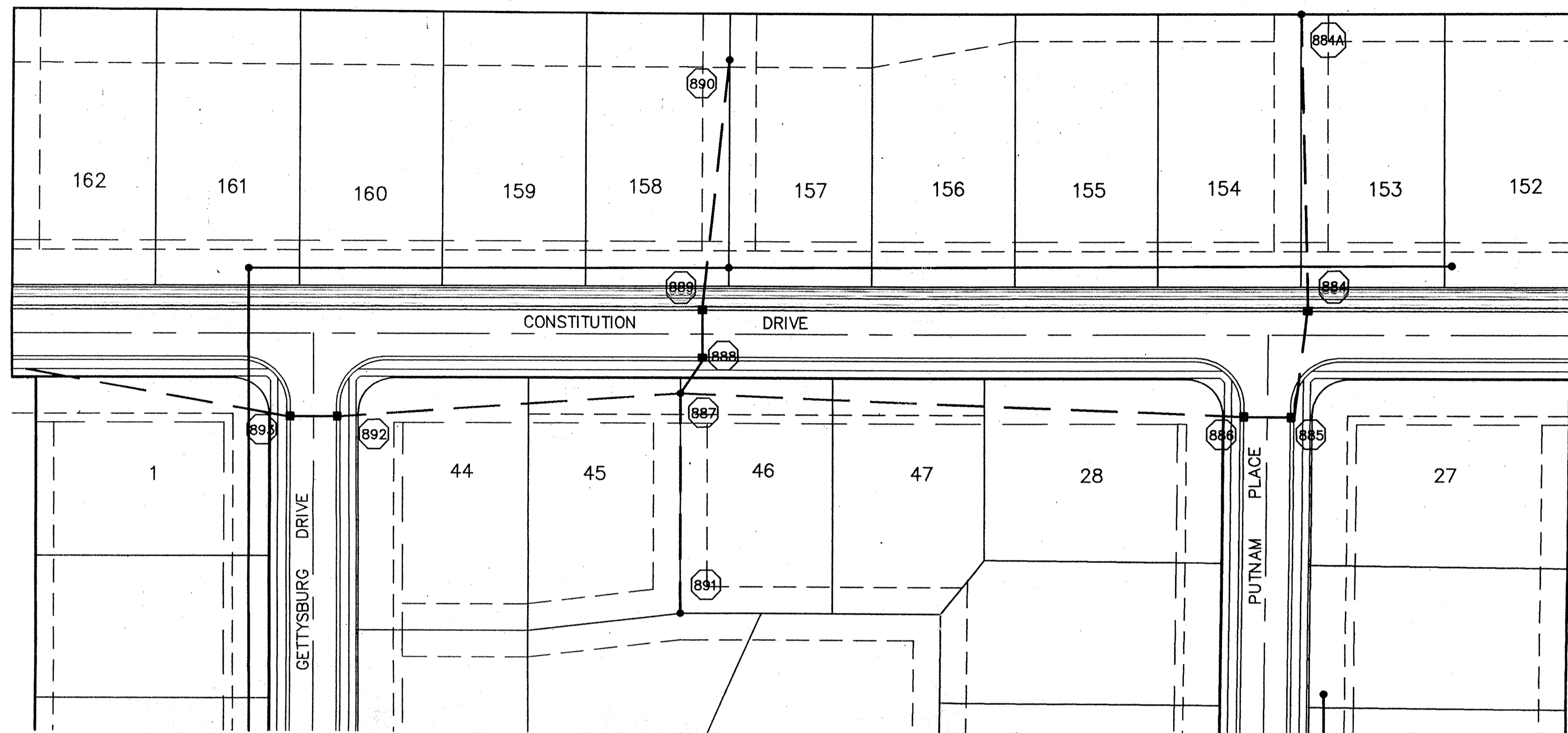


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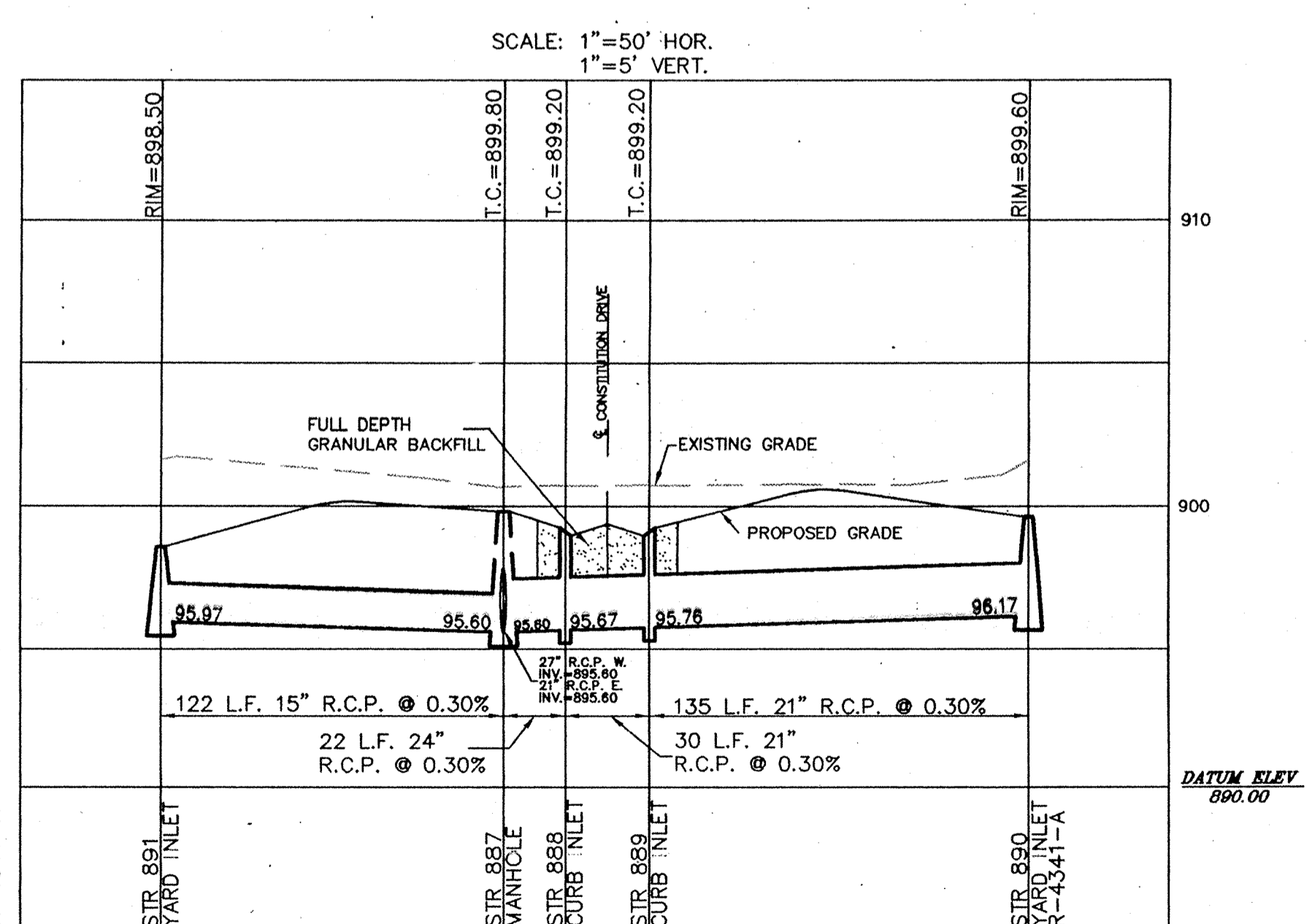
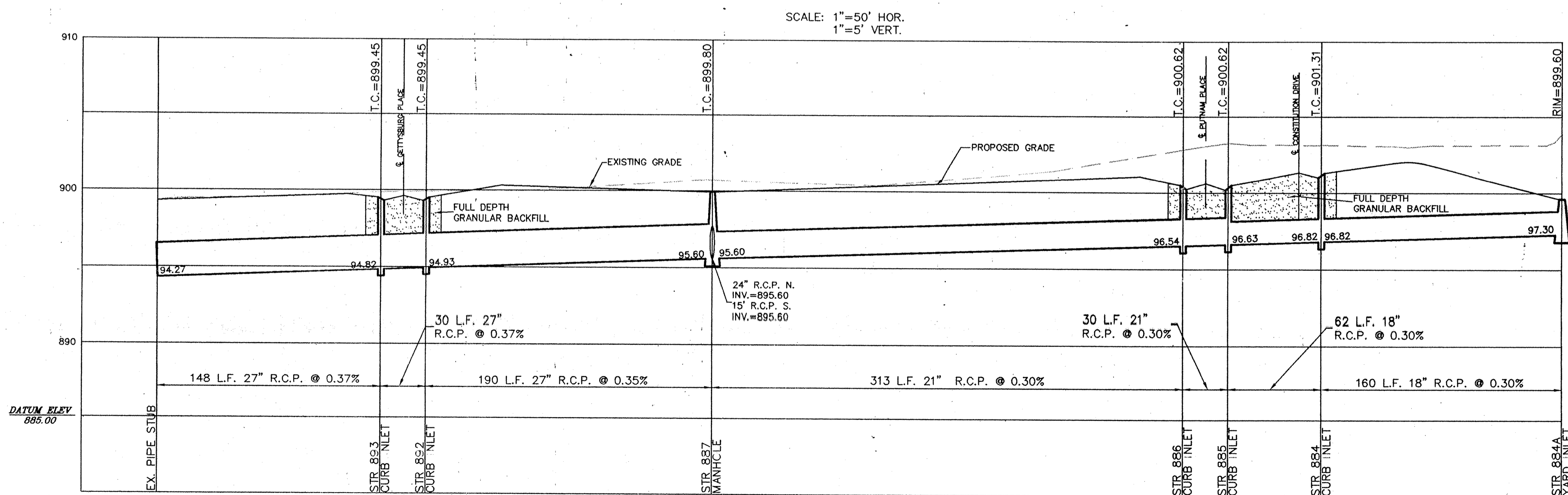
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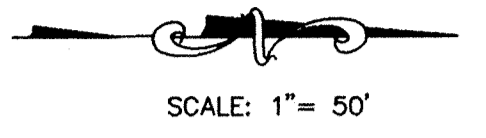
STORM SEWER PLAN & PROFILES  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 CARMEL INDIANA



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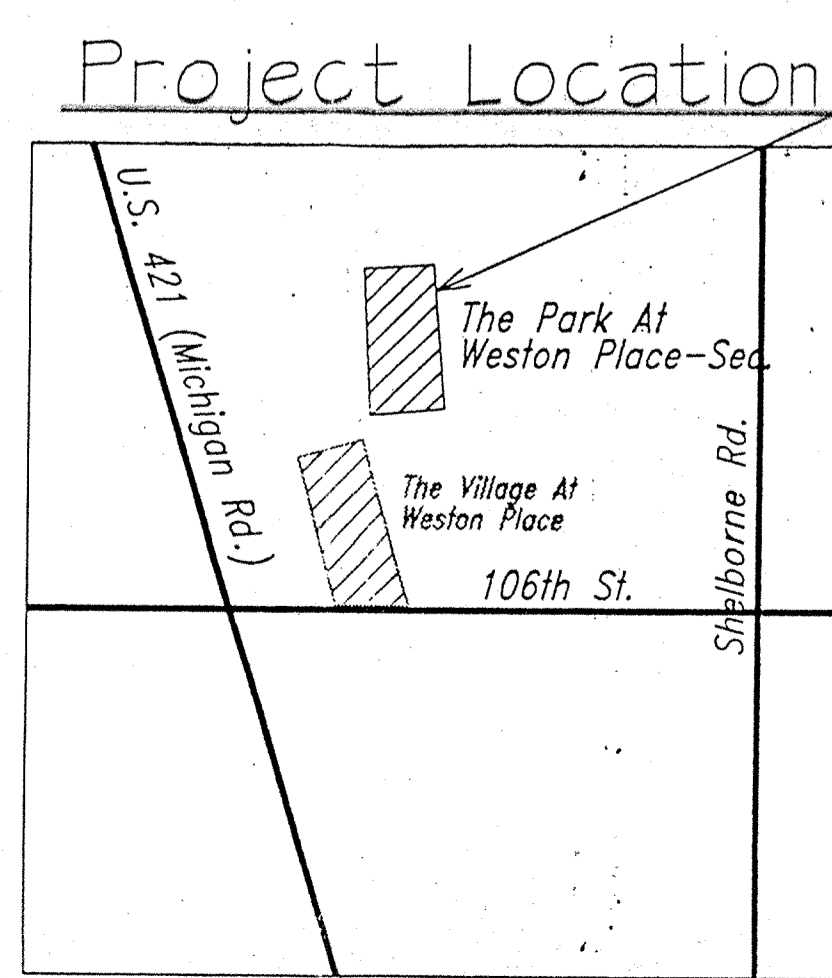
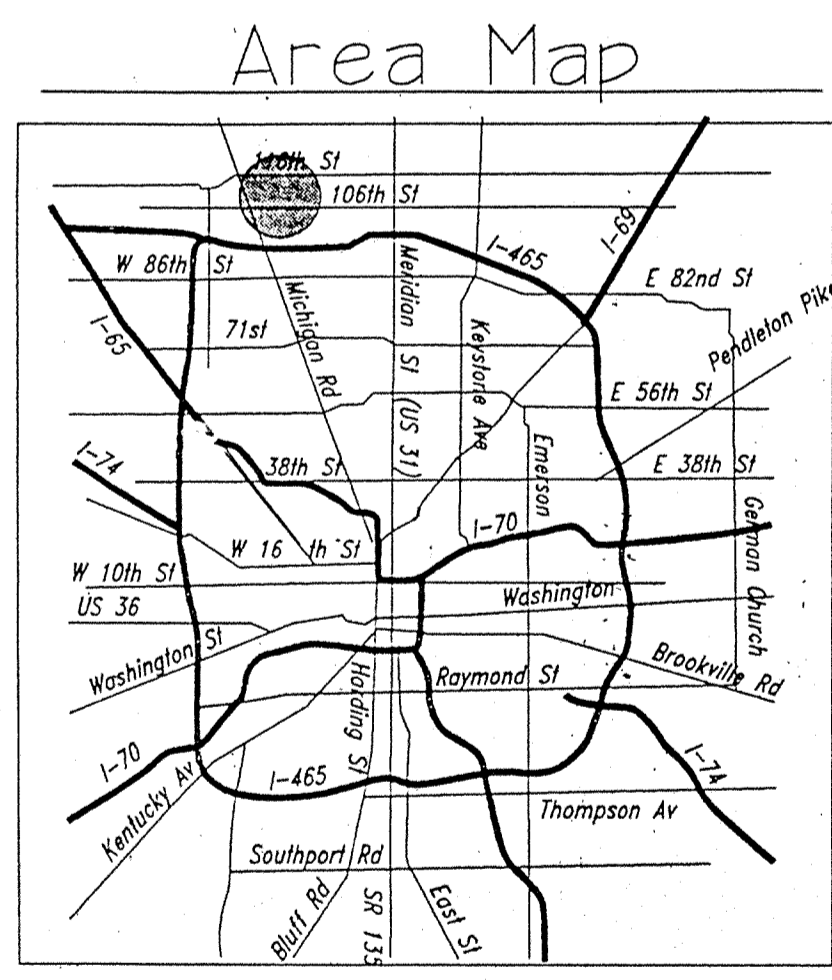
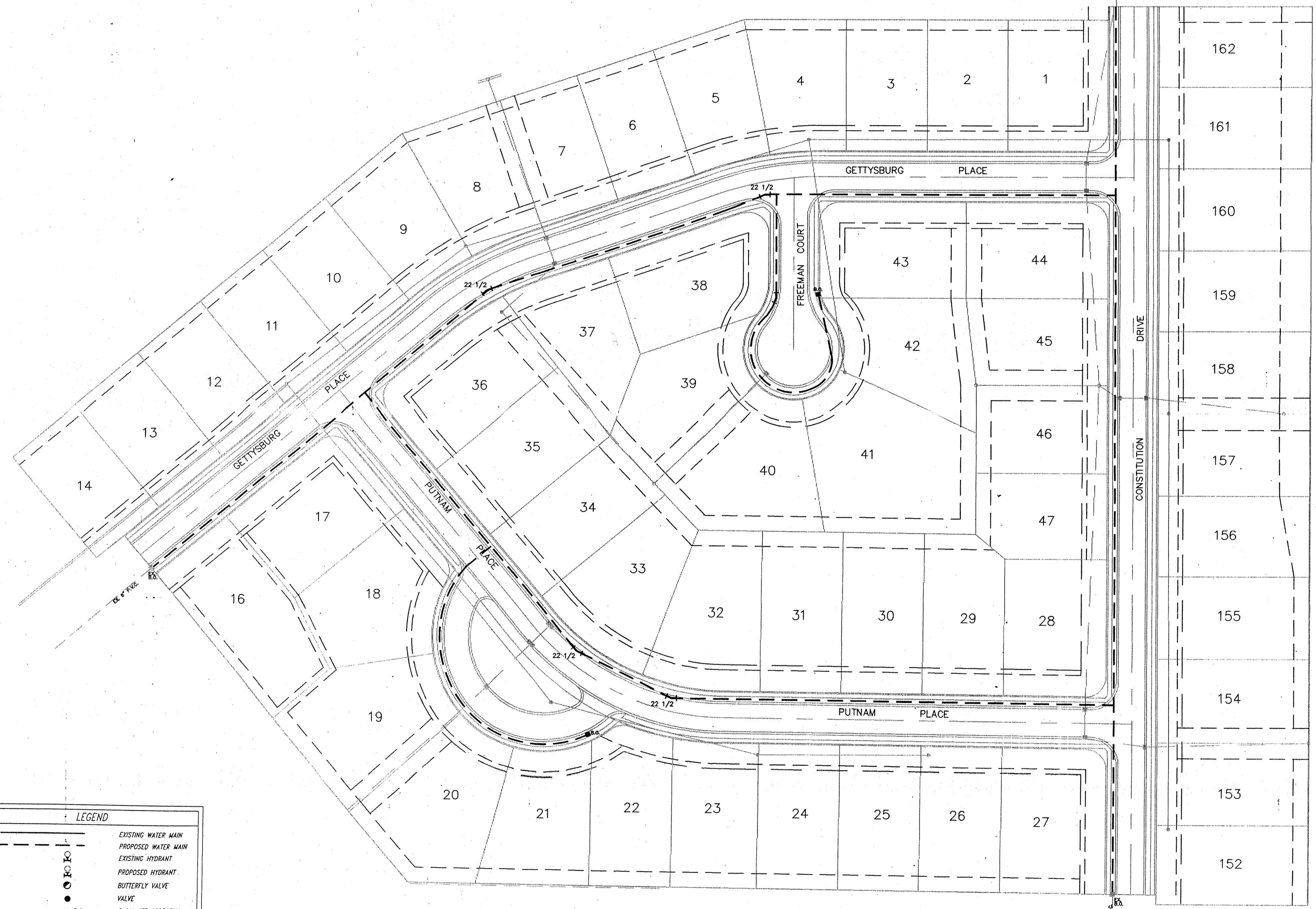
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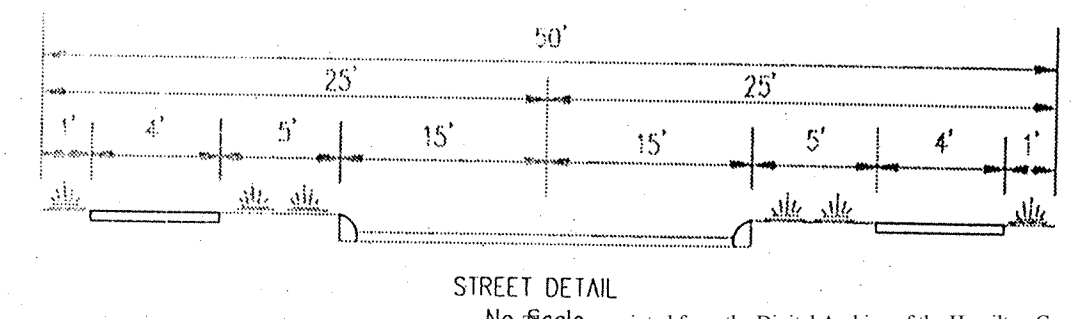
WATER DISTRIBUTION PLAN  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 INDIANA CARMEL

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LEGEND

	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	EXISTING HYDRANT
	PROPOSED HYDRANT
	BUTTERFLY VALVE
	VALVE
	BLOW OFF ASSEMBLY
	PLUG
	REDUCER
	T.J. TEE
	M.J. SLEEVE
	BEND
	KICKER BLOCK
	CASING PIPE
	GAS LINES
	TELEPHONE LINES
	ELECTRIC LINES



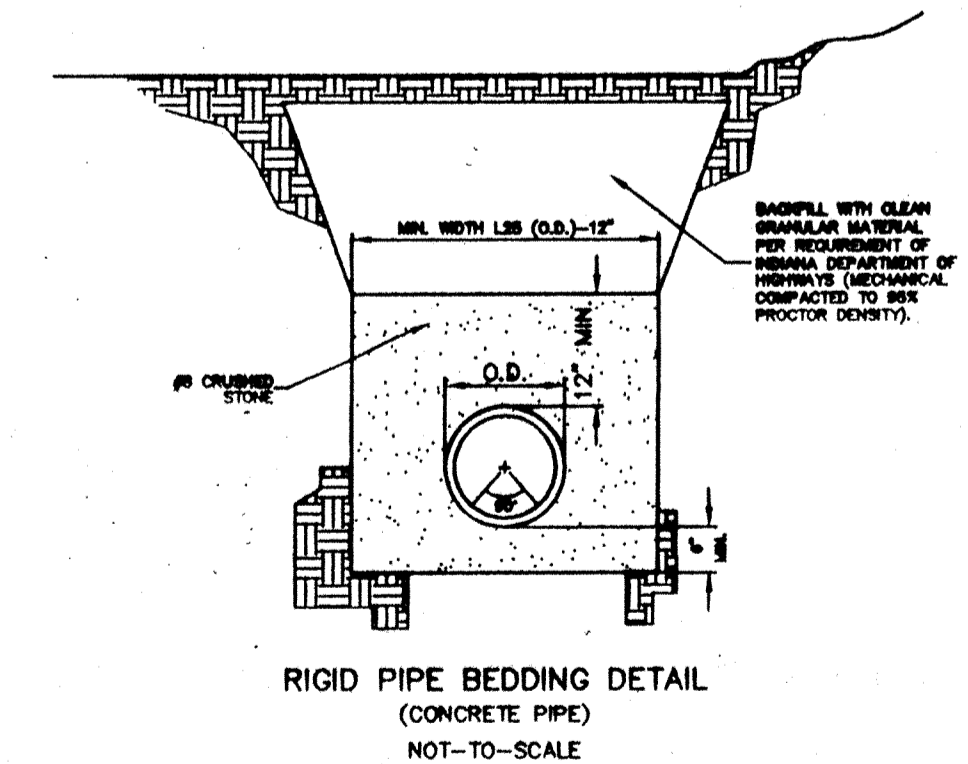
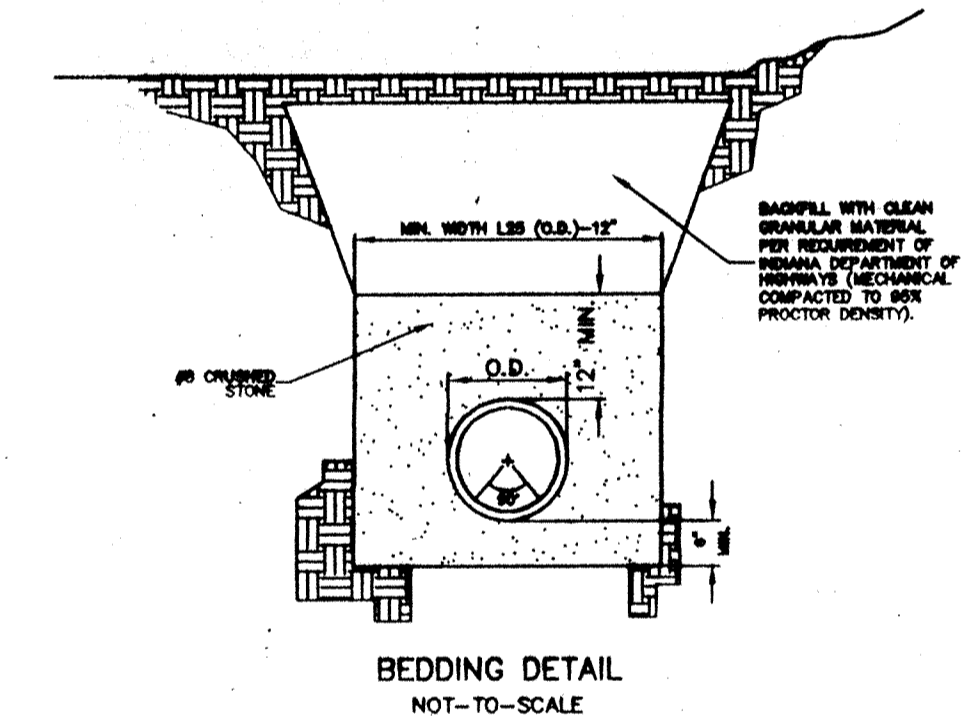
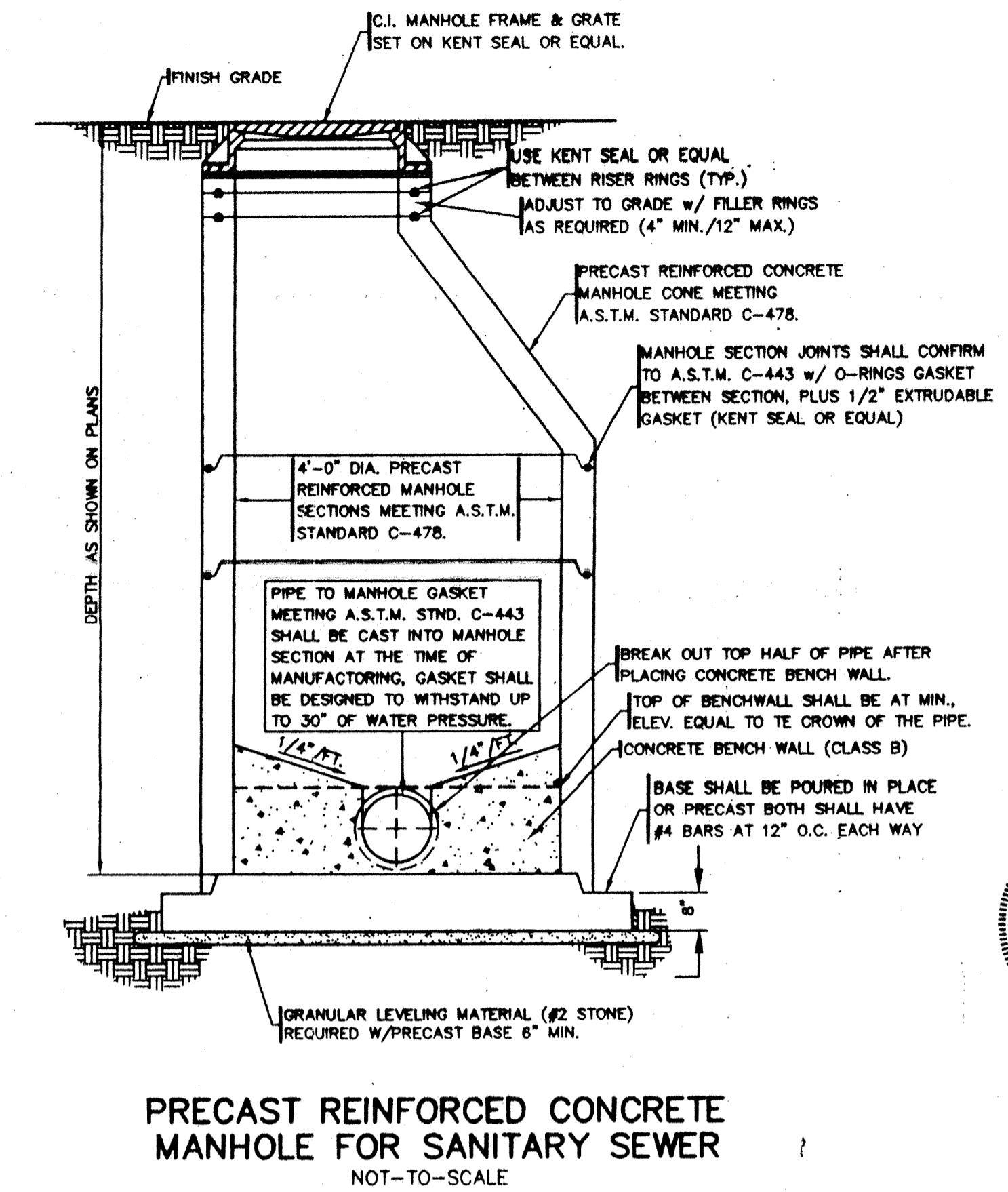
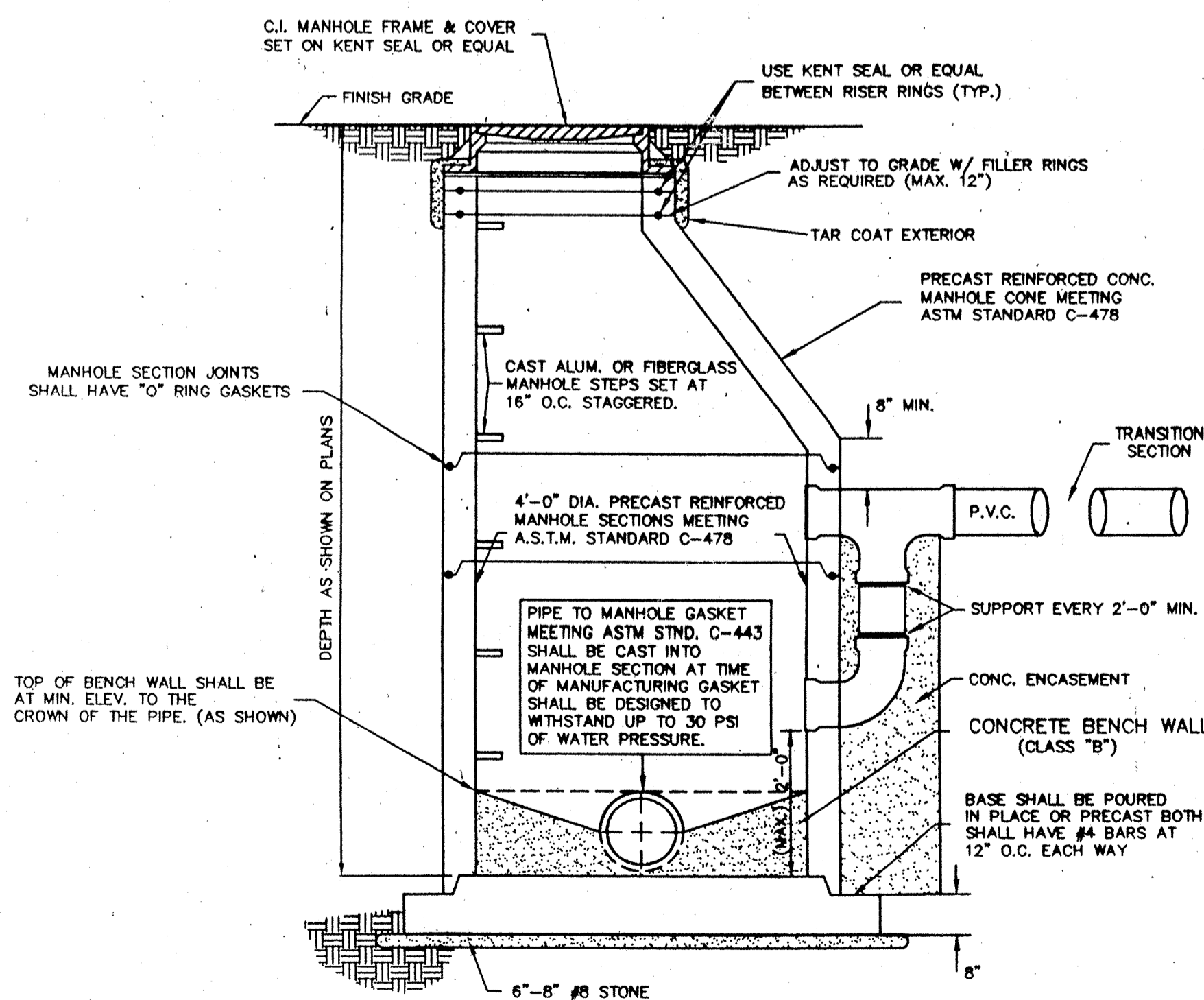
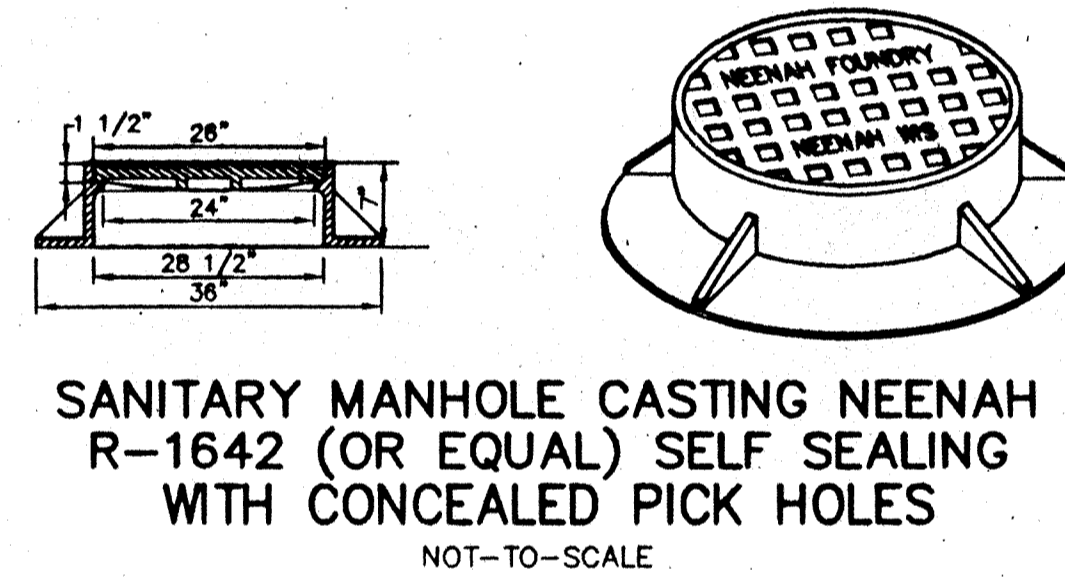
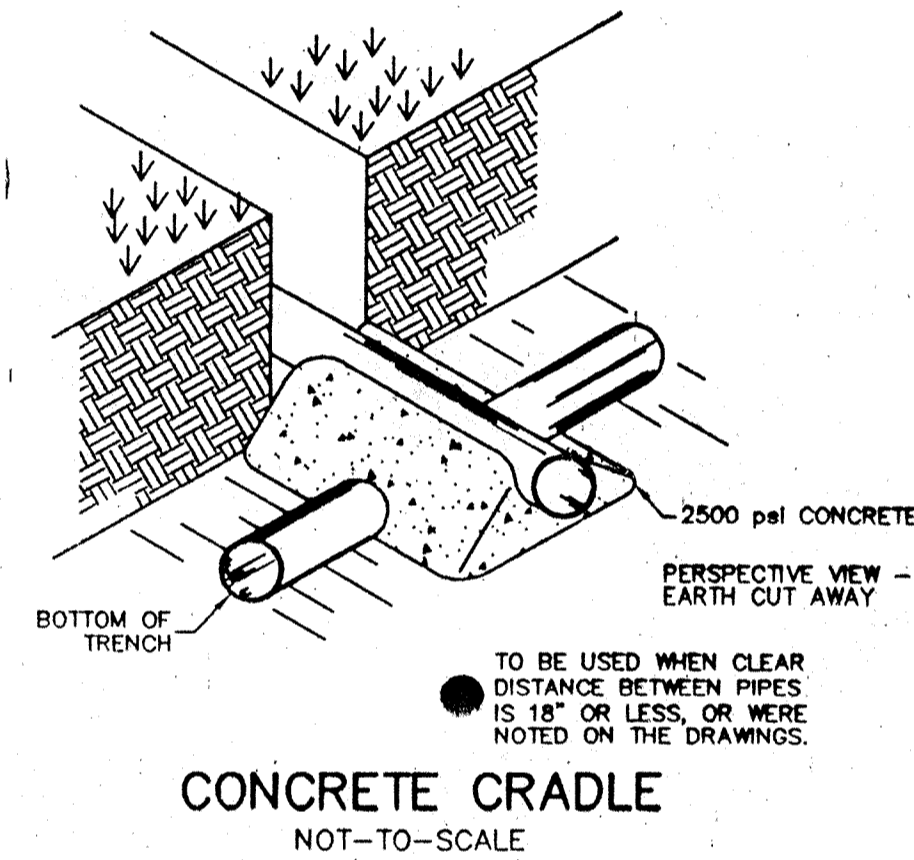
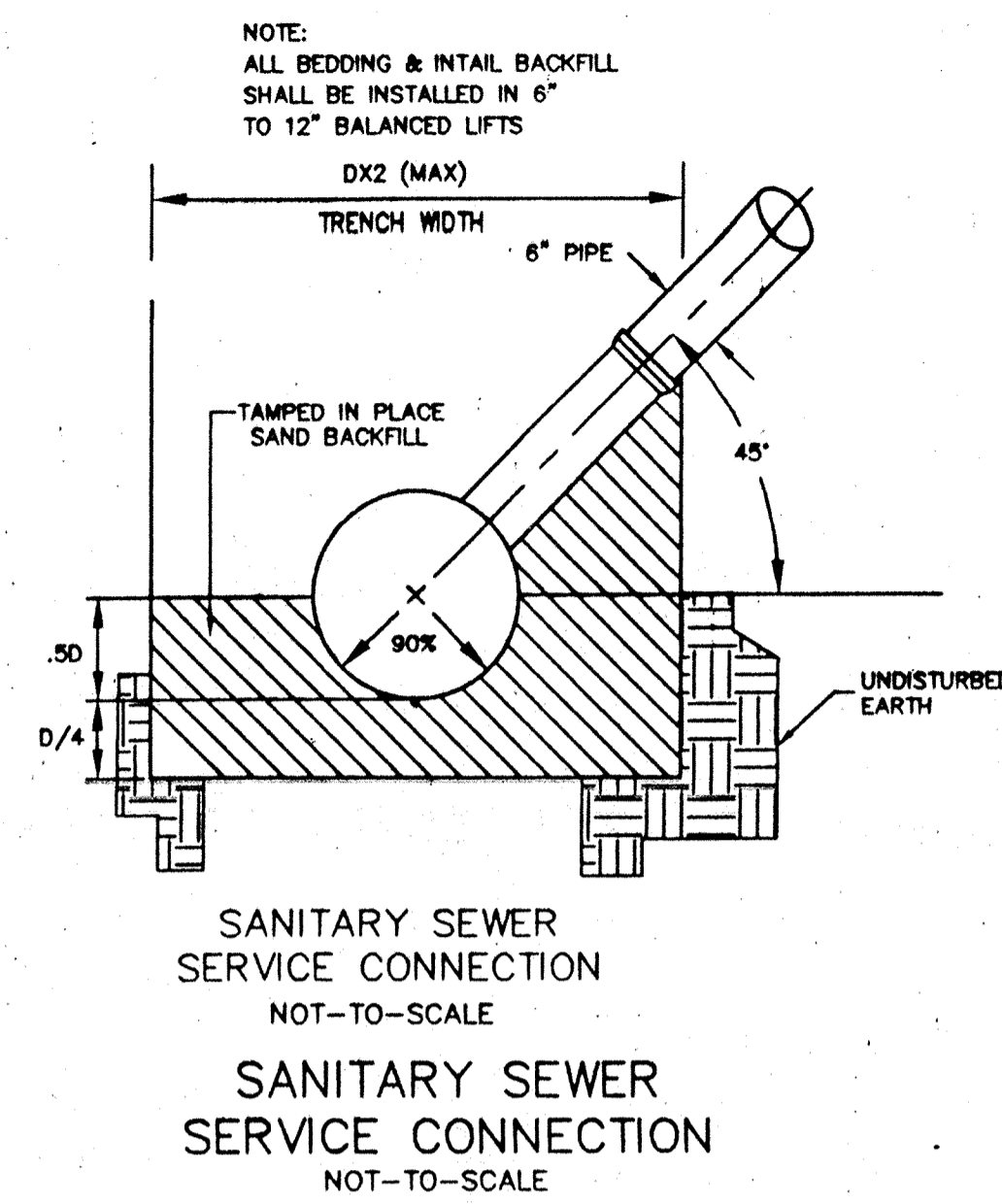
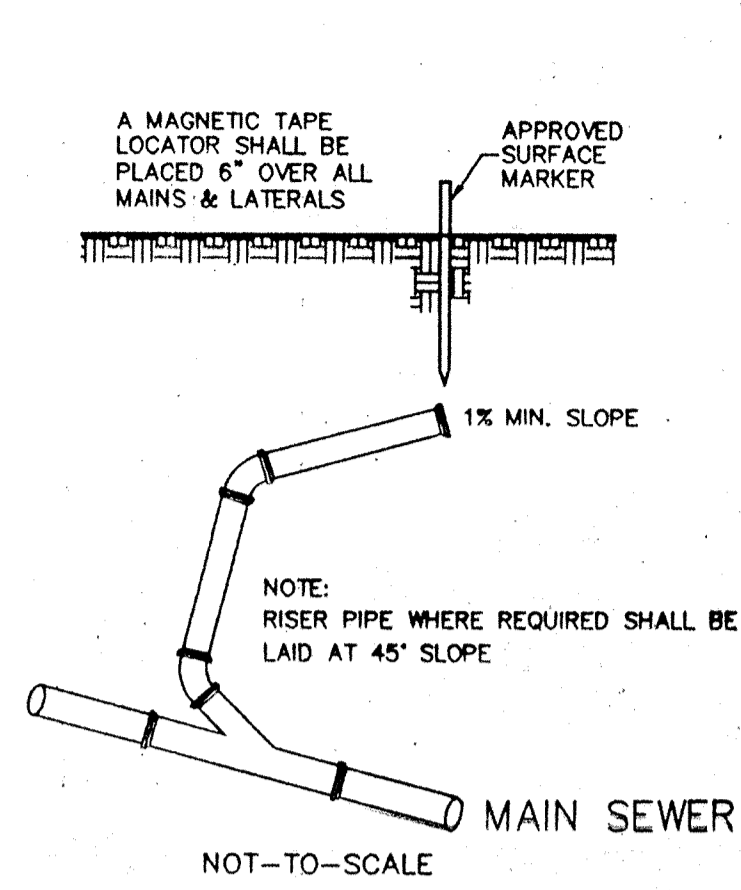
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**SANITARY SEWER SPECIFICATIONS**

- 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 PVC plastic having a cell classification of 12454B.
- PVC sewer fittings shall conform to the requirements of ASTM D-3034-89 specifications. 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 7.11 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 precast 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 NCP1 Standard Method, and shall be witnessed by an Engineer and 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 pipe laying 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 with mechanical screw type, braced 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 castings 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. No more than three manhole sections 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.



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CONSTRUCTION DETAILS  
THE PARK @ WESTON PLACE  
SECTION 2

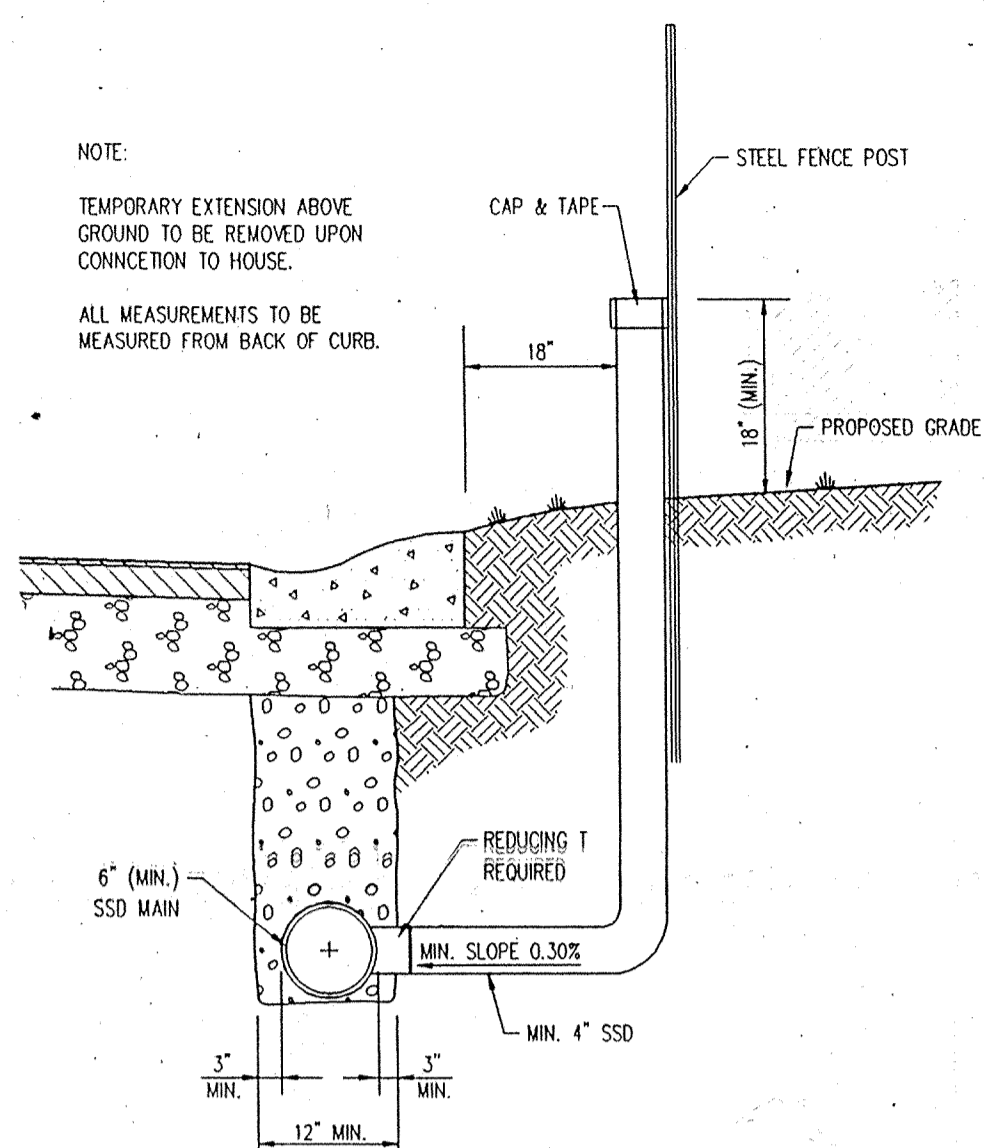
CARMEL INDIANA

FILED  
MAR 18 1996

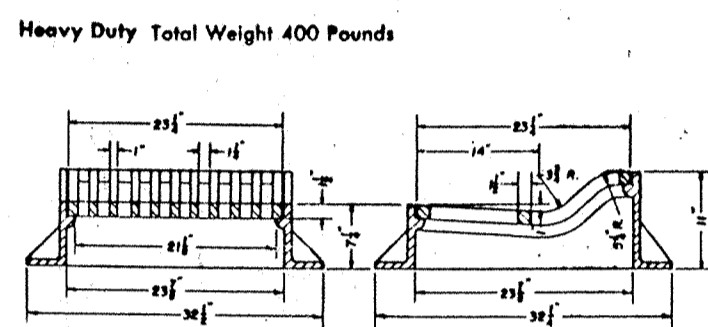
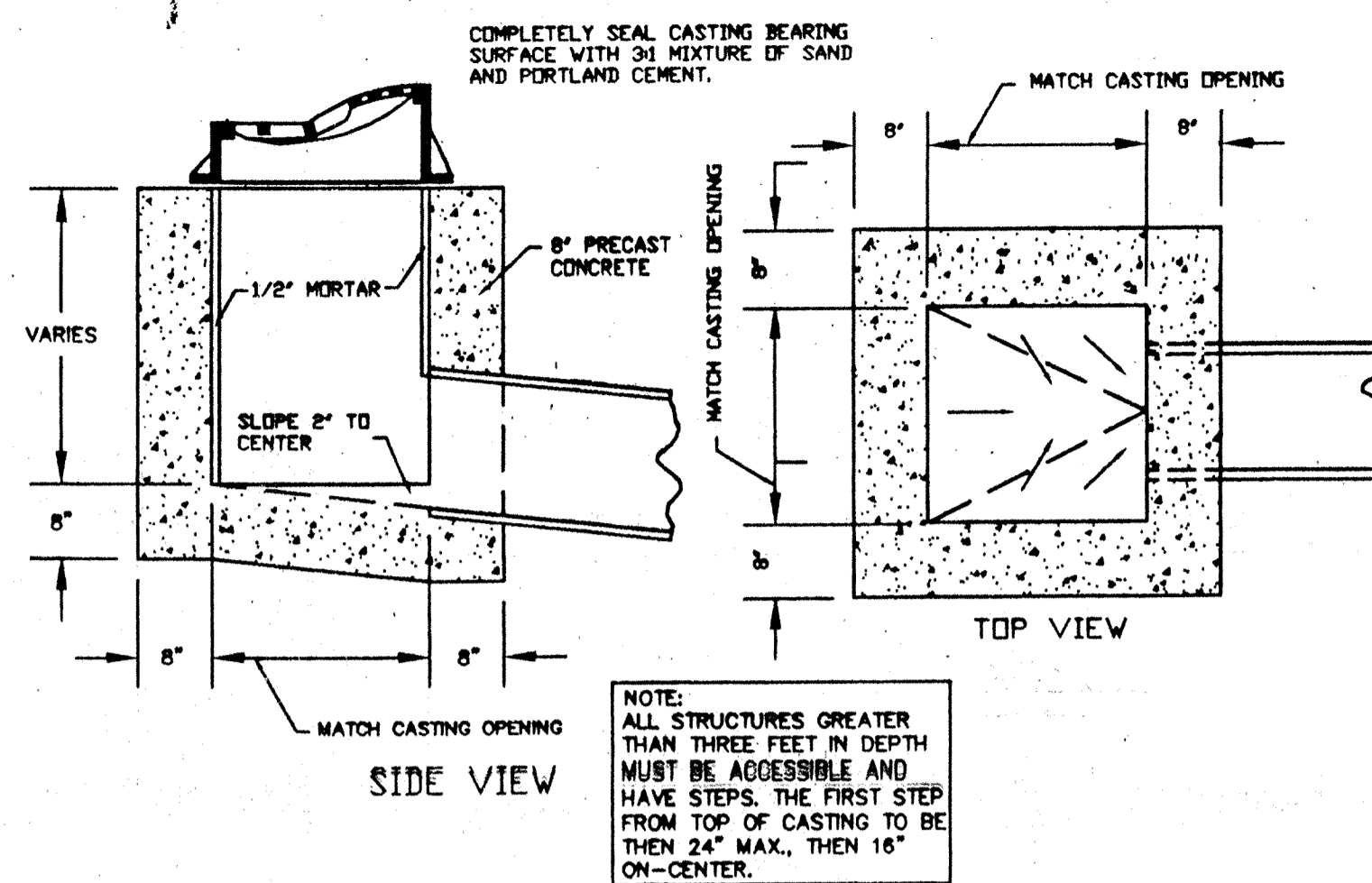
SHEET NO. 17  
OF 19 SHEETS  
19584B

**STORM SEWER CONSTRUCTION**

- Material Specifications:
  - Reinforced Concrete Pipe (RCP) shall conform to ASTM C76-70, Class III latest revision, with joints conforming to ASTM C-443 latest revision.
  - Corrugated Metal Pipe (CMP) shall be standard helical pipe with a minimum thickness of 0.05 inches. CMP shall only be used to extend existing CMP to the nearest proposed structure.
  - All manholes and inlets shall be precast concrete conforming to ASTM C-478 latest revision.
  - Castings shall conform to ASTM-48 latest revision.
- Subsurface drains shall be 6-inches in diameter located directly below the pavement/curb joint and shall run continuously at a minimum 0.20% slope along both sides of the street and shall be connected only into storm sewer structures.
- There shall be a subsurface drain connection provided for each lot.



TYPICAL SSD LATERAL TO INDIVIDUAL LOTS ALONG STREETS  
-NO SCALE



R-3501-N NEENAH CURB INLET FRAME  
GRATE FOR SAG LOCATION

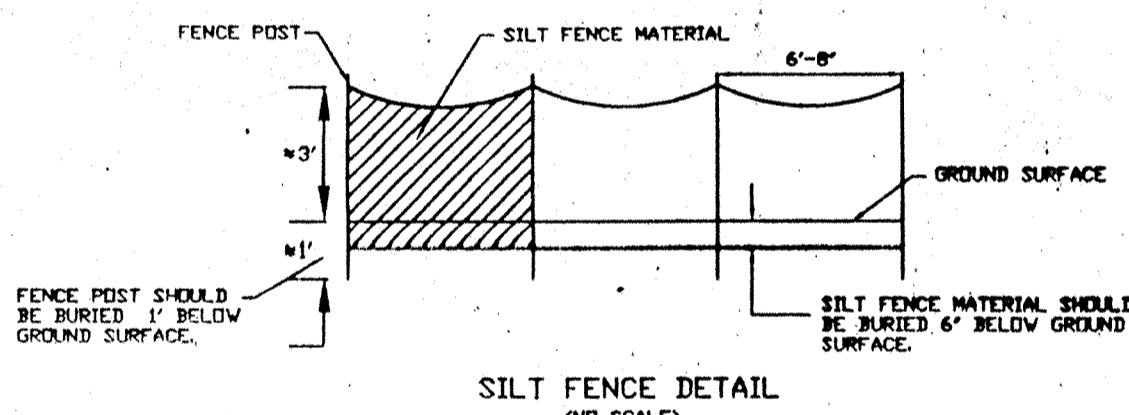
**GENERAL NOTES**

- It shall be the responsibility of the contractors to determine the location of existing underground utilities 24 hours prior to any construction or excavating and maintain operating conditions of active utilities. The engineer shall not be responsible for any damage caused by an erroneous location shown or by the omission of a utility location on these plans. The developer shall be responsible for all approvals, permits & easements.
- Construction of private driveways is not included in this project.
- The contractor shall, at the direction of the developer, endeavor to save and protect all trees of value and worth which do not impair construction of improvements as designed. In the event cut or fill exceeds 0.5 foot over the root area, the developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.
- Remove topsoil to a depth determined by the soils report from all street rights-of-way and building pad areas. Topsoil shall be stored at a location designated by the engineer.
- 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 3-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 NCPD 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 no-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 stone from 6-inches below the pipe to 12-inches above the pipe. Bedding for rigid pipe shall be No. 8 stone from 6-inches below the pipe to the spring line of the pipe and from this point to 12-inches above on no less than 6-inches of stone bedding.
- Water and sewer line crossings and separations shall be in accordance with Ten States' Standards.

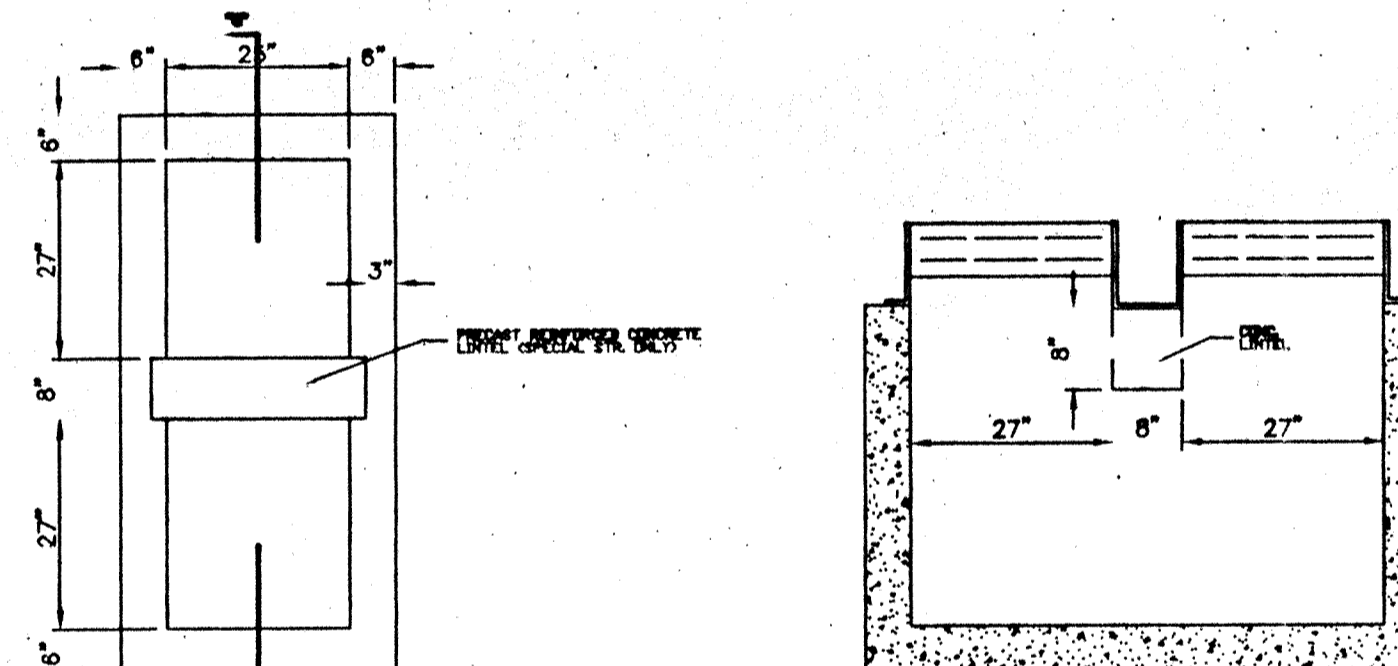
HAMILTON COUNTY SURVEYORS OFFICE

APPROVED: *Hilton C. Wolf* DATE: 4-5-93

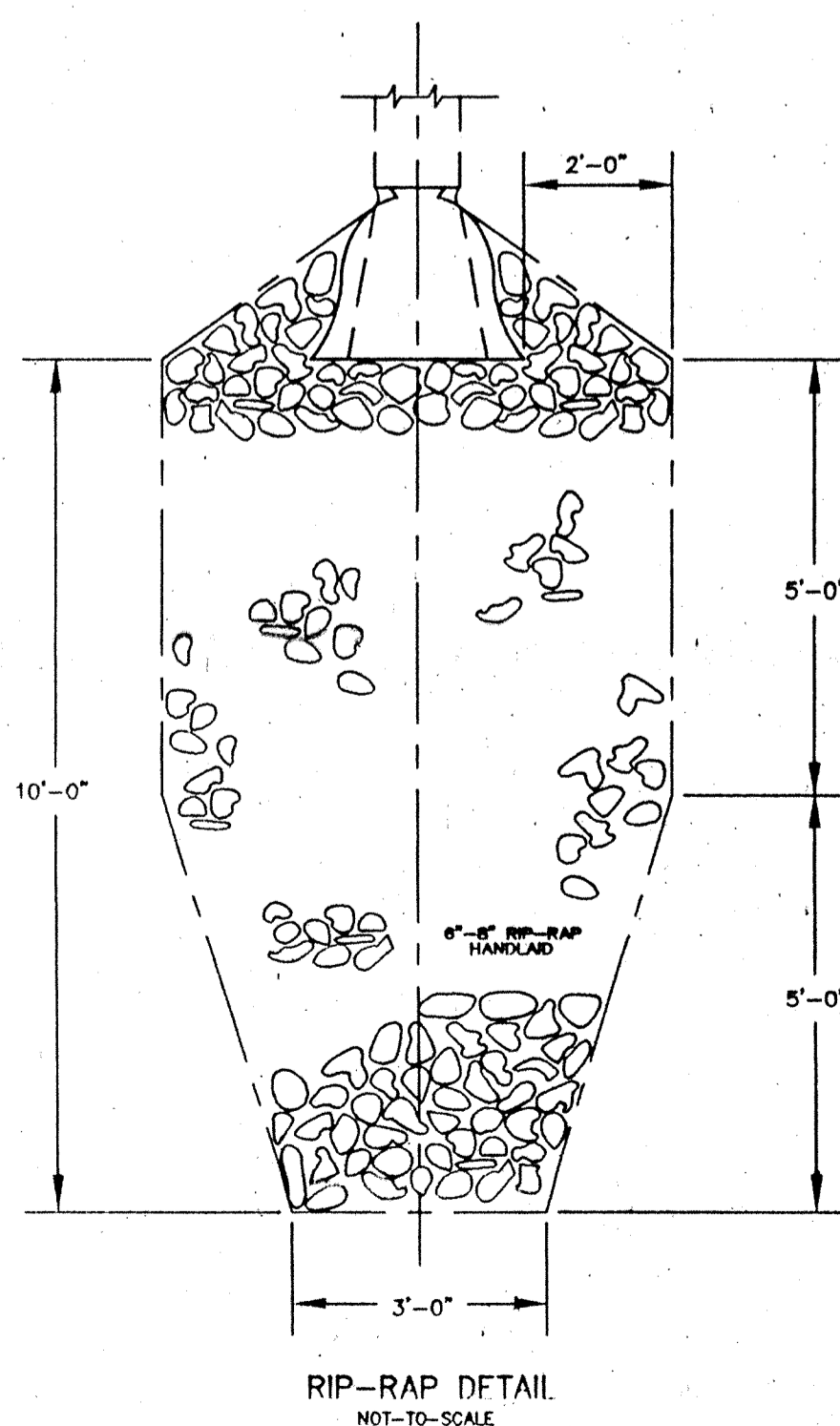
REVISIONS: \_\_\_\_\_  
STANDARD PLAN



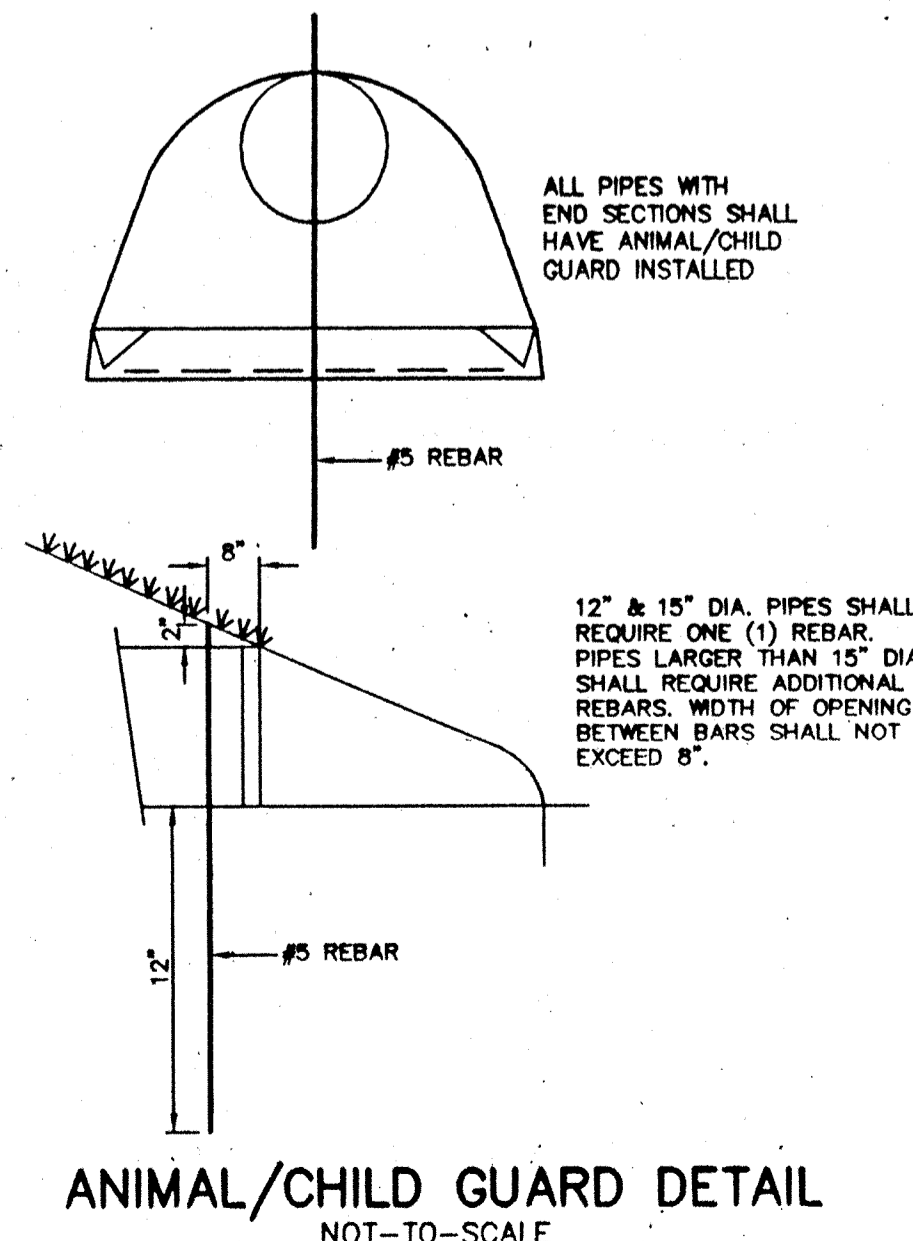
SILT FENCE DETAIL  
-NO SCALE



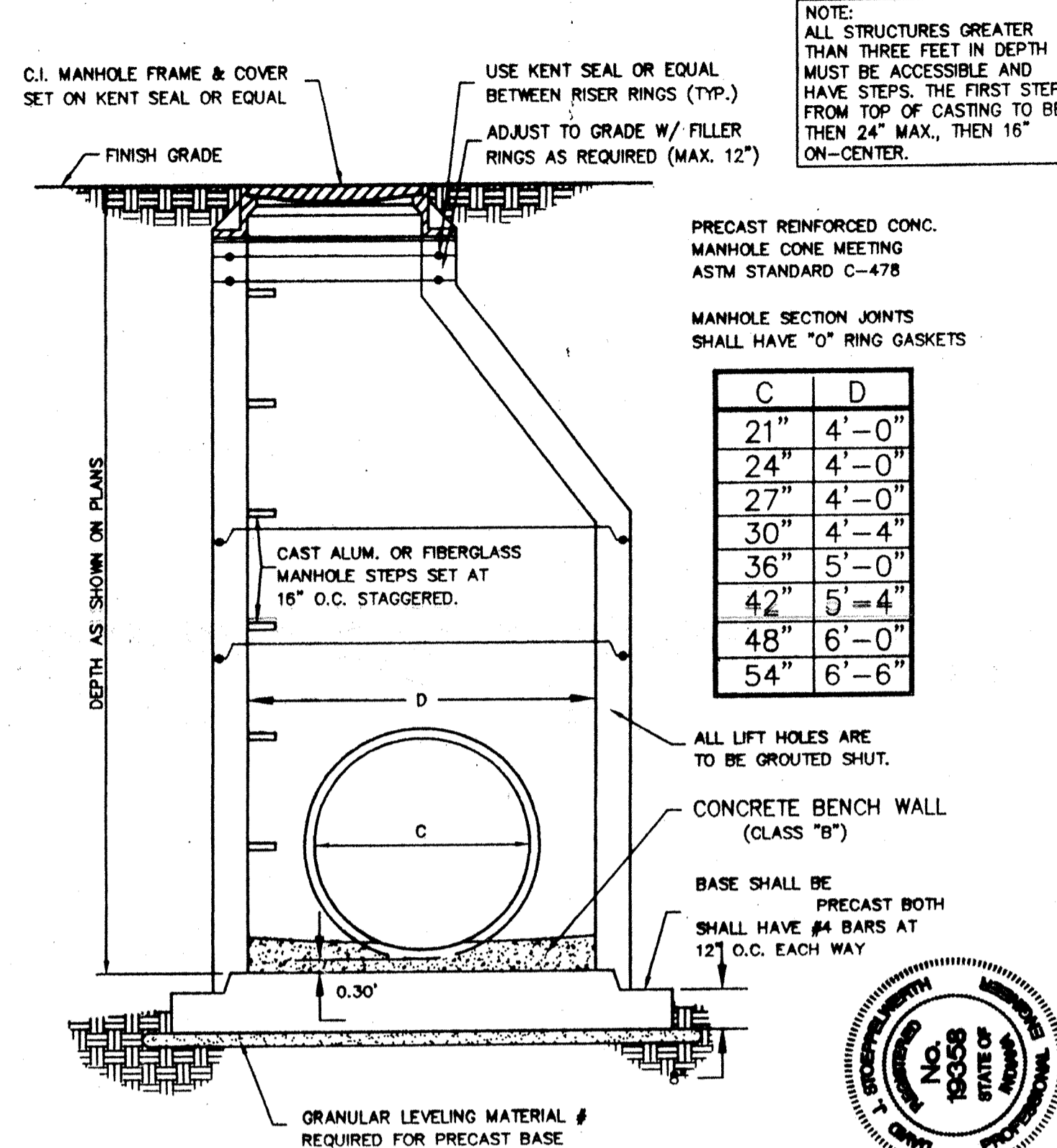
DOUBLE ROLL CURB INLET  
STRUCTURAL DETAIL  
-NOT-TO-SCALE



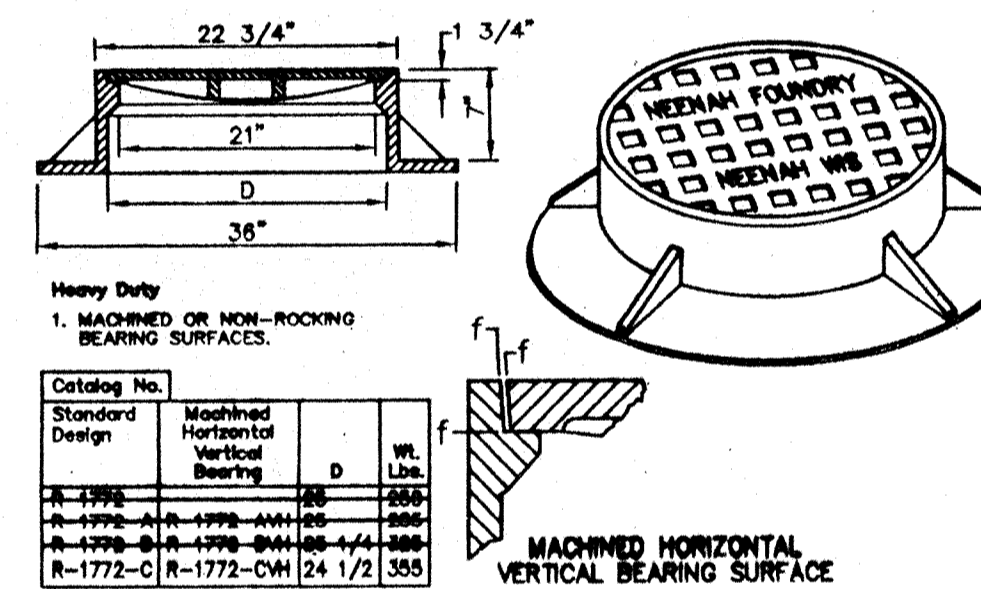
RIP-RAP DETAIL  
-NOT-TO-SCALE



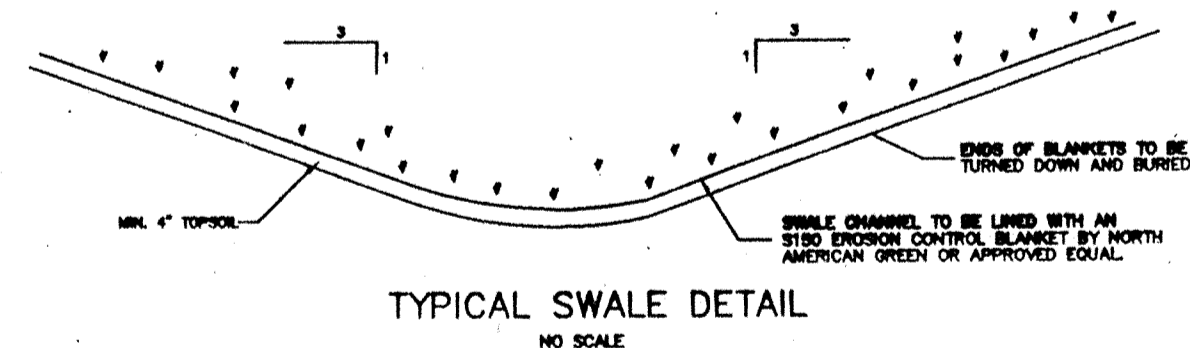
ANIMAL/CHILD GUARD DETAIL  
-NOT-TO-SCALE



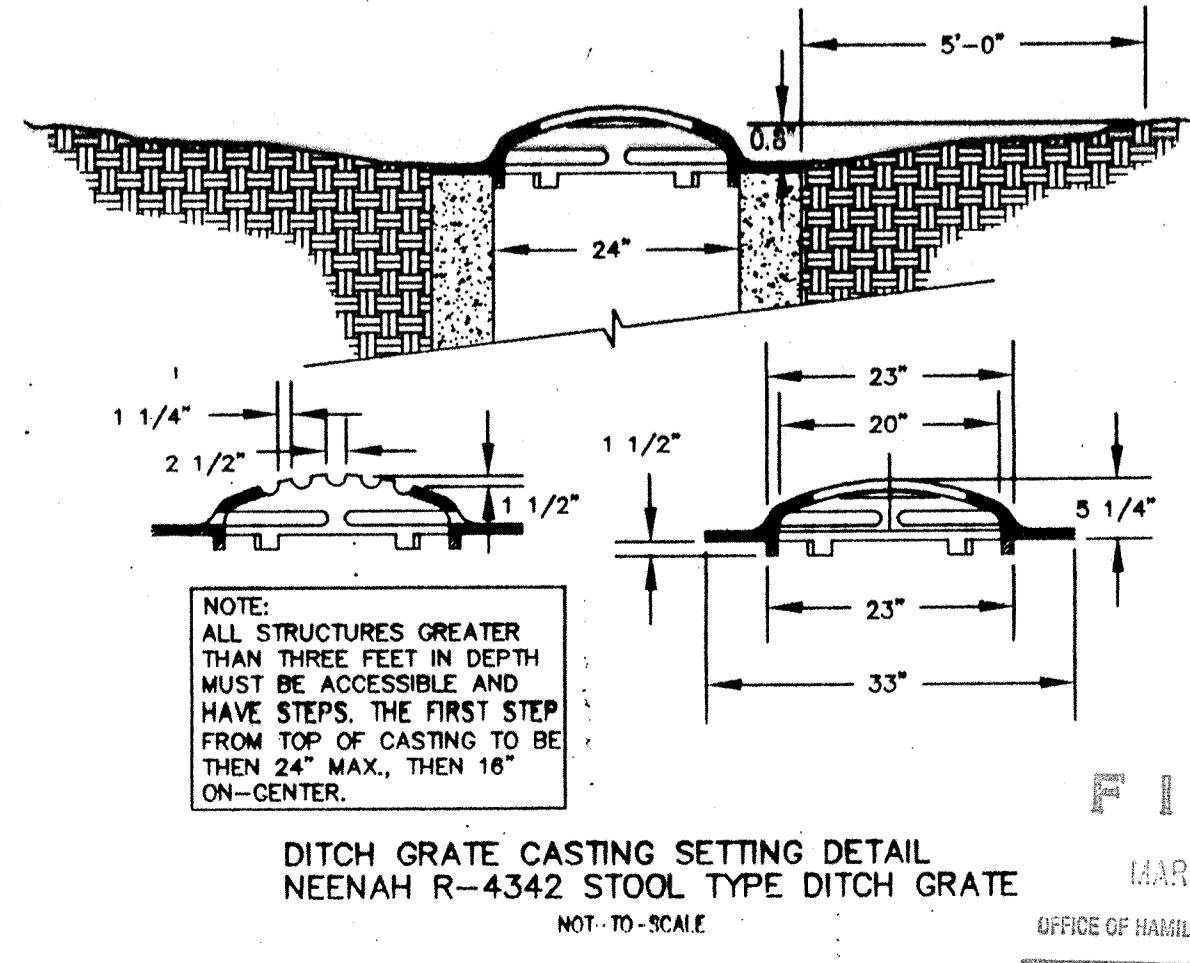
PRECAST REINFORCED CONC. MANHOLE  
FOR STORM SEWER  
-NOT-TO-SCALE



STORM MANHOLE DETAIL R-1772-C  
-NOT-TO-SCALE



TYPICAL SWALE DETAIL  
-NO SCALE



DITCH GRATE CASTING SETTING DETAIL  
NEENAH R-4342 STOOL TYPE DITCH GRATE  
-NOT-TO-SCALE



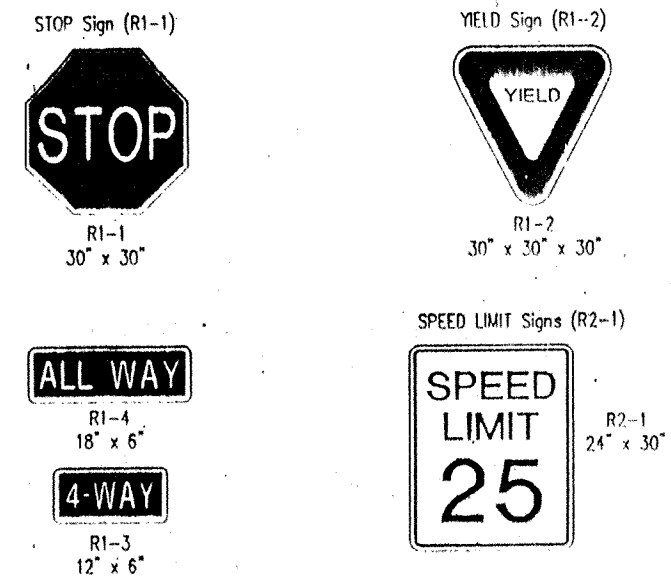
CERTIFIED: 3/15/96

CONSULTING ENGINEERS - LAND SURVEYORS  
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
INDIANAPOLIS INDIANA



CONSTRUCTION DETAILS  
THE PARK @ WESTON PLACE  
SECTION 2  
CARMEL INDIANA

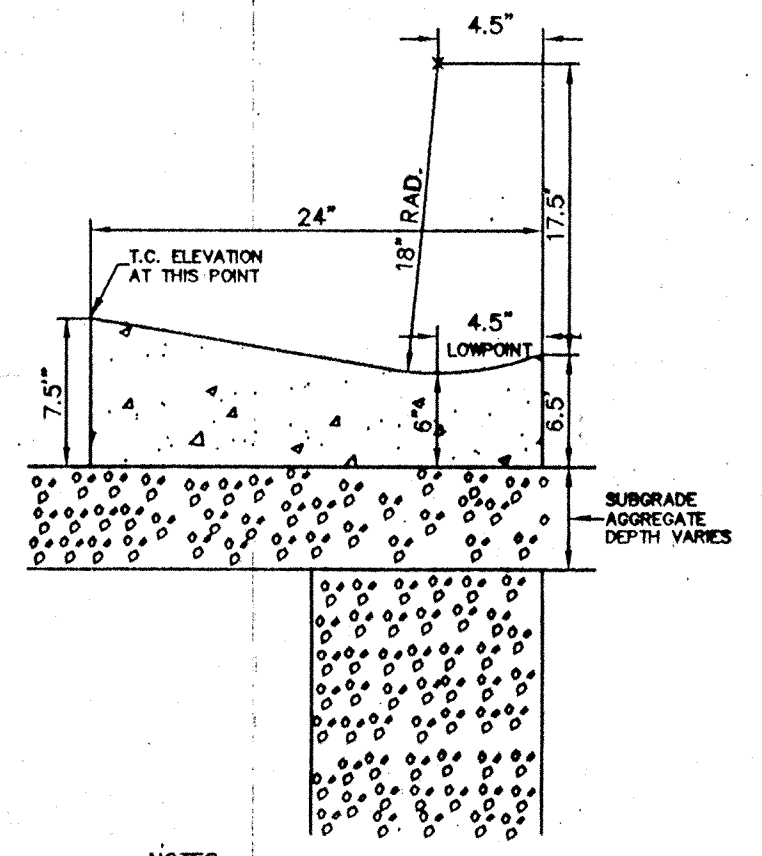
SHEET NO. 10  
DATE: MAR 18 1996  
OFFICE OF HAMILTON COUNTY SURVEYORS  
JOB NO. 19564B



NOTES:  
 1) Signs shall be single faced with Engineering Grade reflective sheeting on 0.008" thick aluminum sheet material per MDT Standard Specifications 912.10.  
 2) Posts shall be 1 1/2" dia. 3 1/2" long, 3 1/2" green painted or galvanized chromed steel pipe per MDT Standard Specifications 903.14.  
 3) All sign sizes, shapes, colors and material shall meet the Indiana Standard Uniform Traffic Control Devices.

TYPICAL SUBDIVISION REGULATORY SIGNS  
NO SCALE

HAMILTON COUNTY HIGHWAY DEPARTMENT		REVISIONS
RECOMMENDED: <i>[Signature]</i>	DATE: 4-5-93	STANDARD PLAN S-1
APPROVED: <i>[Signature]</i>	DATE: 4-5-93	

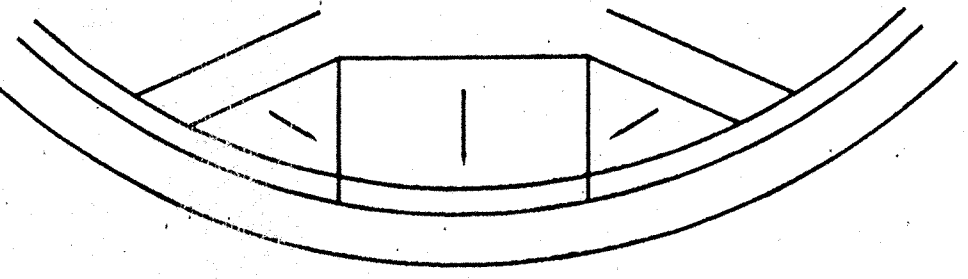


NOTES:  
 EXPANSION JOINTS ARE REQUIRED AT STORM INLETS.  
 CONTRACTION JOINTS SHOULD BE INSTALLED AT 10' SPACINGS.  
 SPACING SHALL BE 5' ON CURVE RADI.  
 CONTRACTION JOINTS SHALL BE TOoled OR SAWN IN CONTINUOUSLY POURED CURBS TO A DEPTH OF 1/2" MIN.

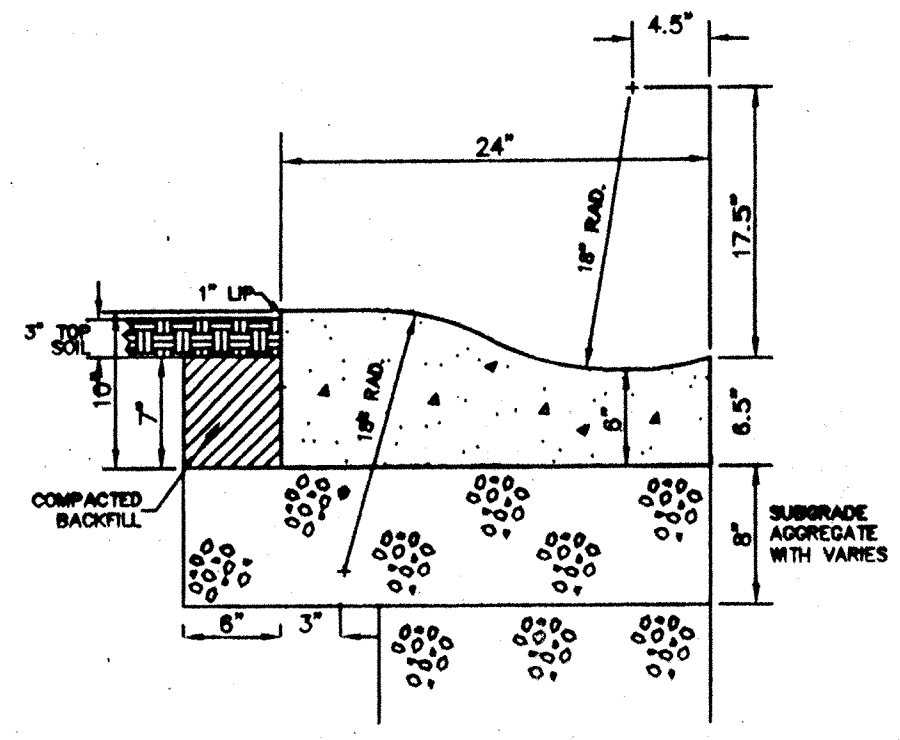
VALLEY GUTTER DETAIL  
NOT TO SCALE

RECOMMENDED: <i>[Signature]</i>	DATE: 4-5-93
APPROVED: <i>[Signature]</i>	DATE: 4-5-93

NOTE:  
 1) THE MAX. SLOPE (——) OF RAMPS IS 1:12  
 2) ALL RAMP SURFACES TO HAVE DETECTABLE WARNING SURFACE THAT COMPLIES WITH A.D.A. REQUIREMENTS.  
 3) HOME BUILDER'S CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE A.D.A. RAMP WITH TACTILE SURFACE.  
 (NO RAISED DOMES NOR PAINT)

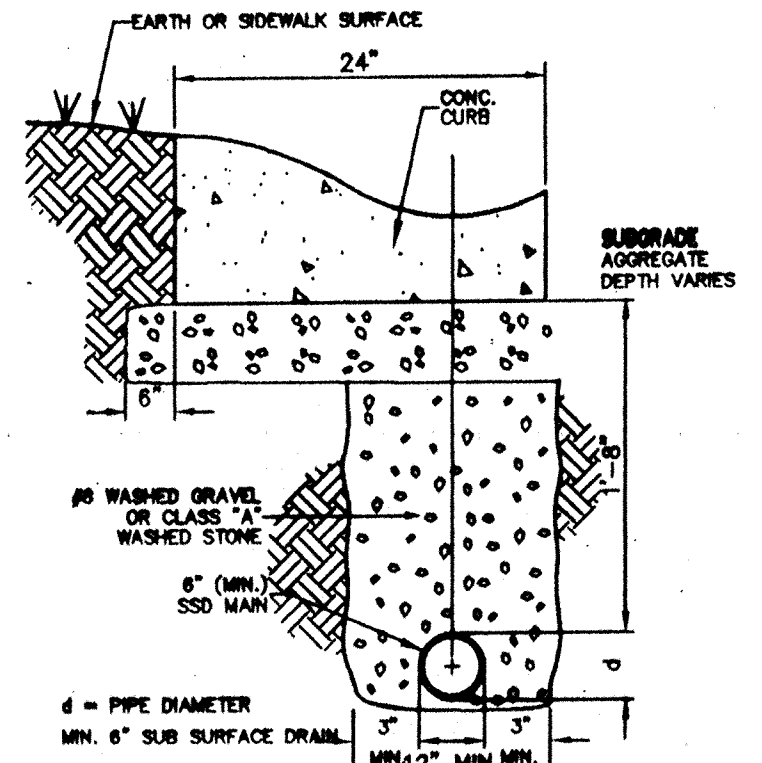


TYPICAL HANDI-CAPPED RAMP AT CORNER  
NOT TO SCALE



CONCRETE ROLL CURB & GUTTER (TYPE I)  
 (D.O.T. STANDARD PLAN 12-01)  
 NOT TO SCALE

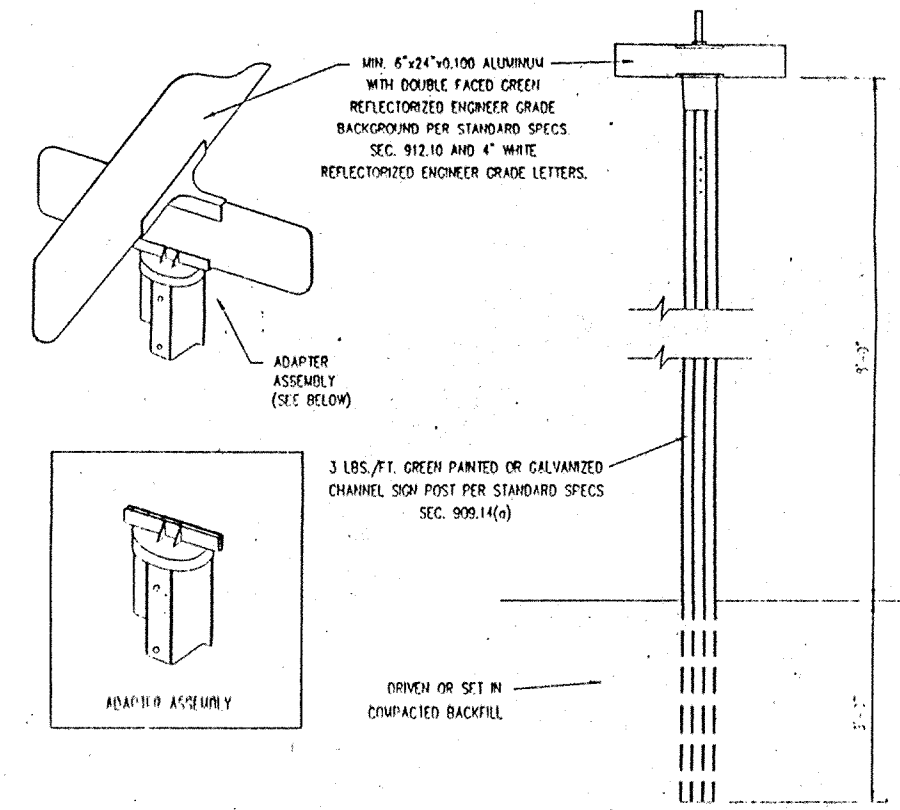
RECOMMENDED: <i>[Signature]</i>	DATE: 3/10/95
APPROVED: <i>[Signature]</i>	DATE: 3/17/95



NOTES:  
 INSTALLATION OF UNDERDRAIN SHALL CONFORM TO SECTION 716 OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS. UNDERDRAINS SHALL NOT BE INSTALLED UNTIL FINAL GRADING & COMPACTION OF SURFACE.  
 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. WATERMANS, STORM SEWERS, SANITARY SEWERS, ETC.)

PIPE UNDERDRAIN  
NOT TO SCALE

RECOMMENDED: <i>[Signature]</i>	DATE: 4-5-93
APPROVED: <i>[Signature]</i>	DATE: 4-5-93

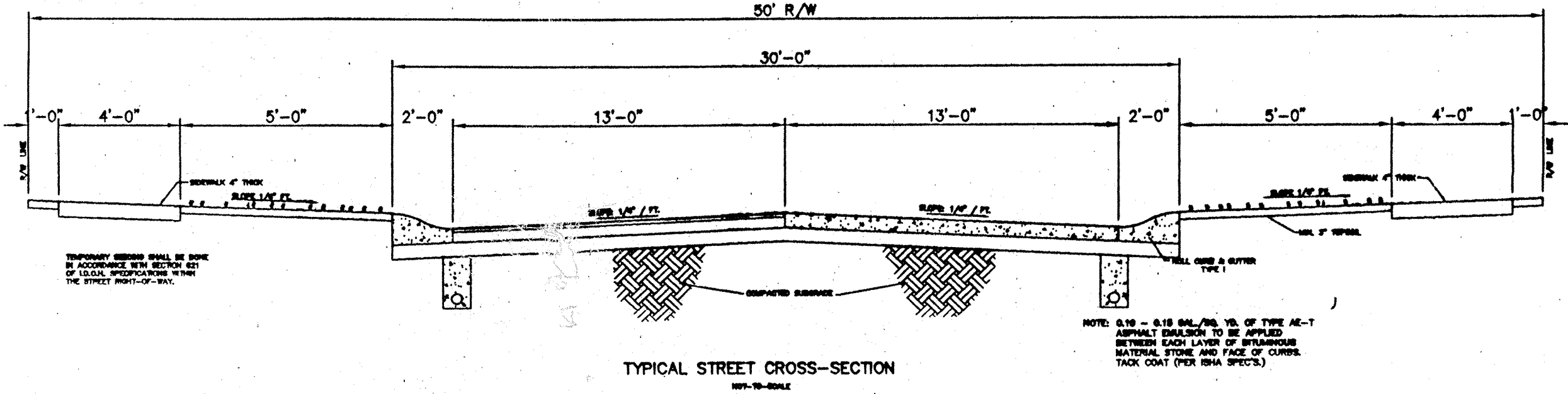


SUBDIVISION SIGN PLACEMENT  
NO SCALE

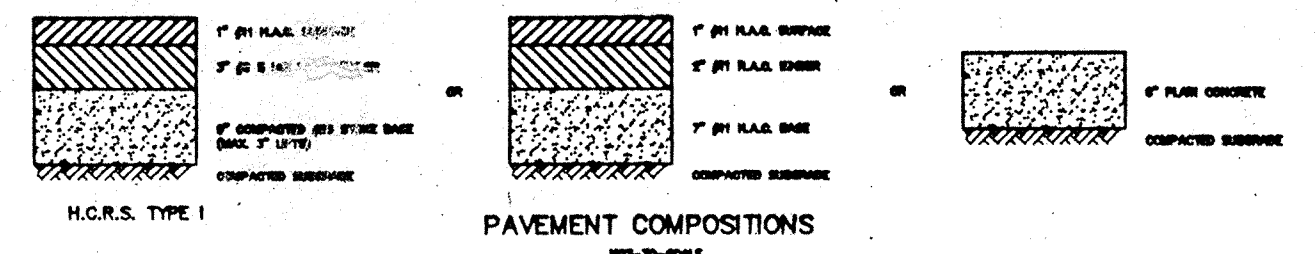
NOTES:  
 1) Point Streets shall be indicated on the left hand side of the sign with dual lines.  
 2) One sign assembly shall be located at each intersection on the southeast corner when possible.  
 3) Stop signs shall not be located on the street name sign posts.

HAMILTON COUNTY HIGHWAY DEPARTMENT		REVISIONS
RECOMMENDED: <i>[Signature]</i>	DATE: 4-5-93	STANDARD PLAN S-2
APPROVED: <i>[Signature]</i>	DATE: 4-5-93	

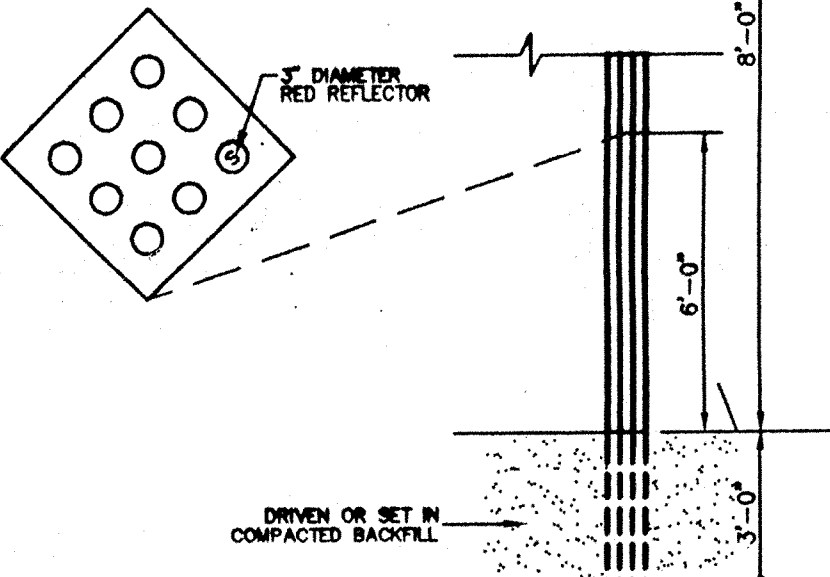
HAMILTON COUNTY HIGHWAY DEPARTMENT		REVISIONS
RECOMMENDED: <i>[Signature]</i>	DATE: 4-5-93	STANDARD PLAN S-3
APPROVED: <i>[Signature]</i>	DATE: 4-5-93	



TYPICAL STREET CROSS-SECTION  
NOT TO SCALE



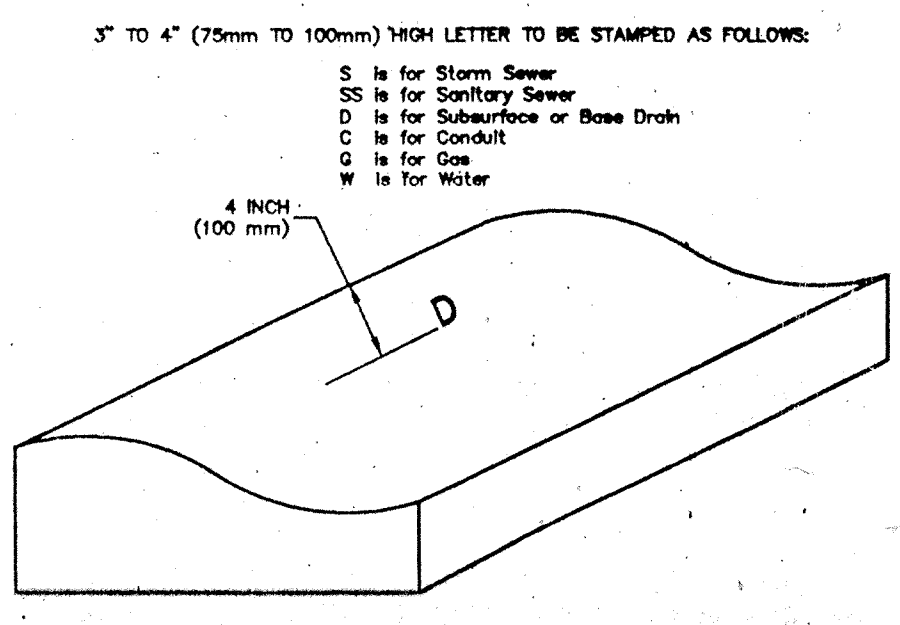
PAVEMENT COMPOSITIONS  
NOT TO SCALE



NOTES:  
 1. NINE (9) RED REFLECTORS ARE TO BE MOUNTED SYMMETRICALLY ON AN 18-INCH DIAMETER RED PANEL.  
 2. THREE (3) END-OF-ROAD MARKERS ARE TO BE PLACED AT EACH LOCATION. MARKERS ARE TO BE SET EVENLY ACROSS THE WIDTH OF THE ROAD.

END OF ROAD MARKERS  
NOT TO SCALE

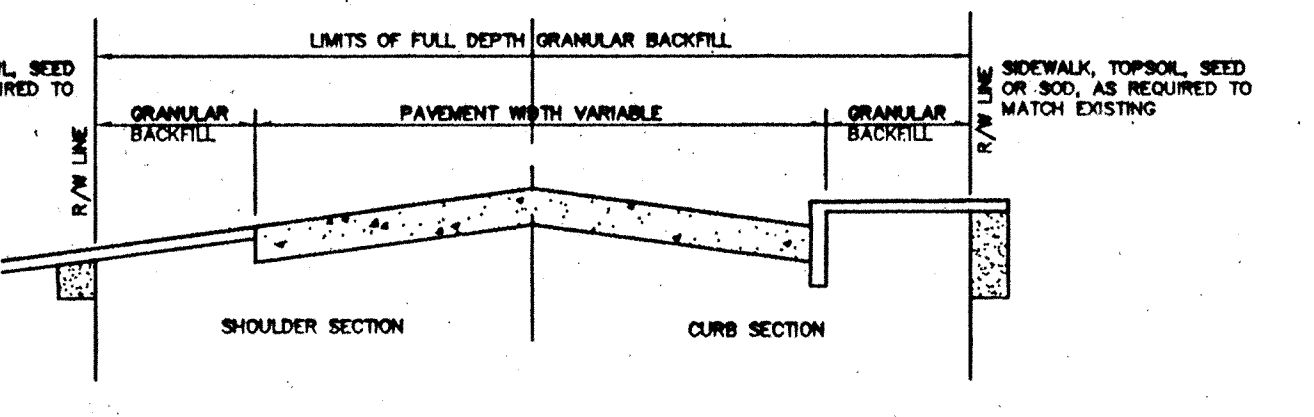
RECOMMENDED: <i>[Signature]</i>	DATE: 4-5-93
APPROVED: <i>[Signature]</i>	DATE: 4-5-93



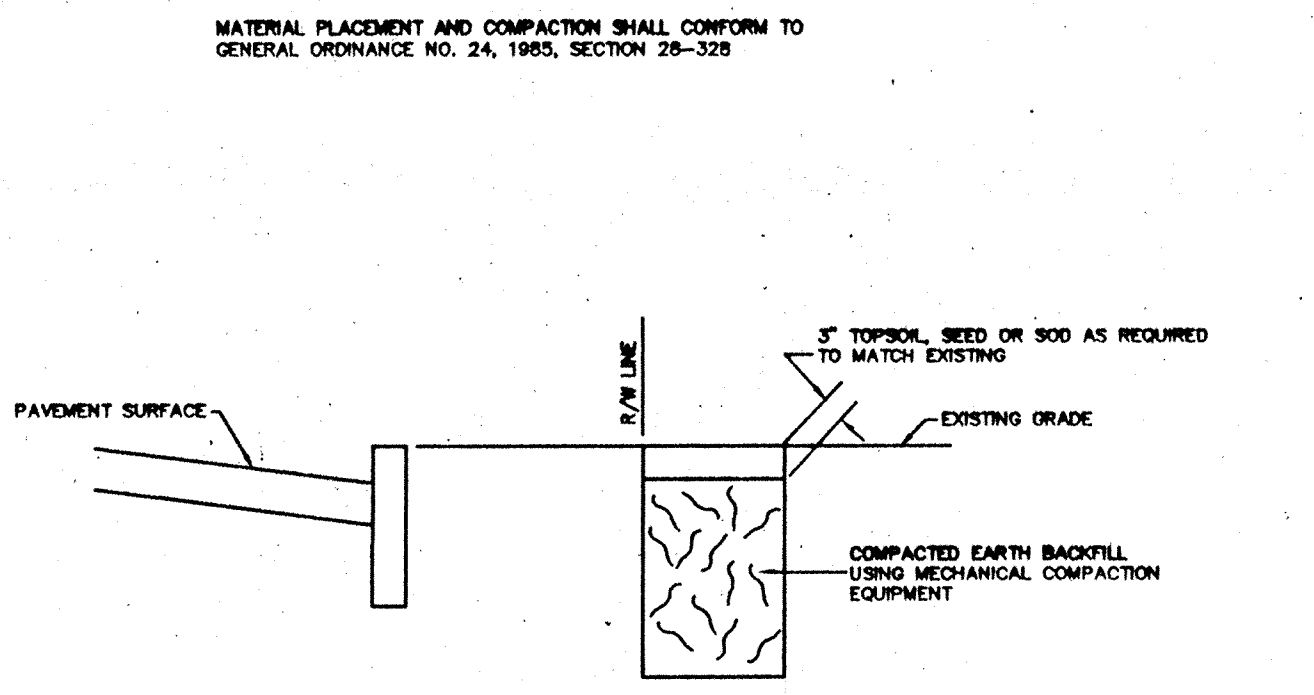
NOTES:  
 1. CURB TO BE STAMPED AT ALL LOCATIONS WHERE ANY OF THE ABOVE CROSS UNDER A CURB.  
 2. LETTER TO BE STAMPED PRIOR TO CONCRETE SETTING UP, WHENEVER POSSIBLE.  
 3. STAMP TO BE A MINIMUM OF 1/2 INCH (10mm) DEEP.

RECOMMENDED: <i>[Signature]</i>	DATE: 2-22-91
APPROVED: <i>[Signature]</i>	DATE: 2-22-91

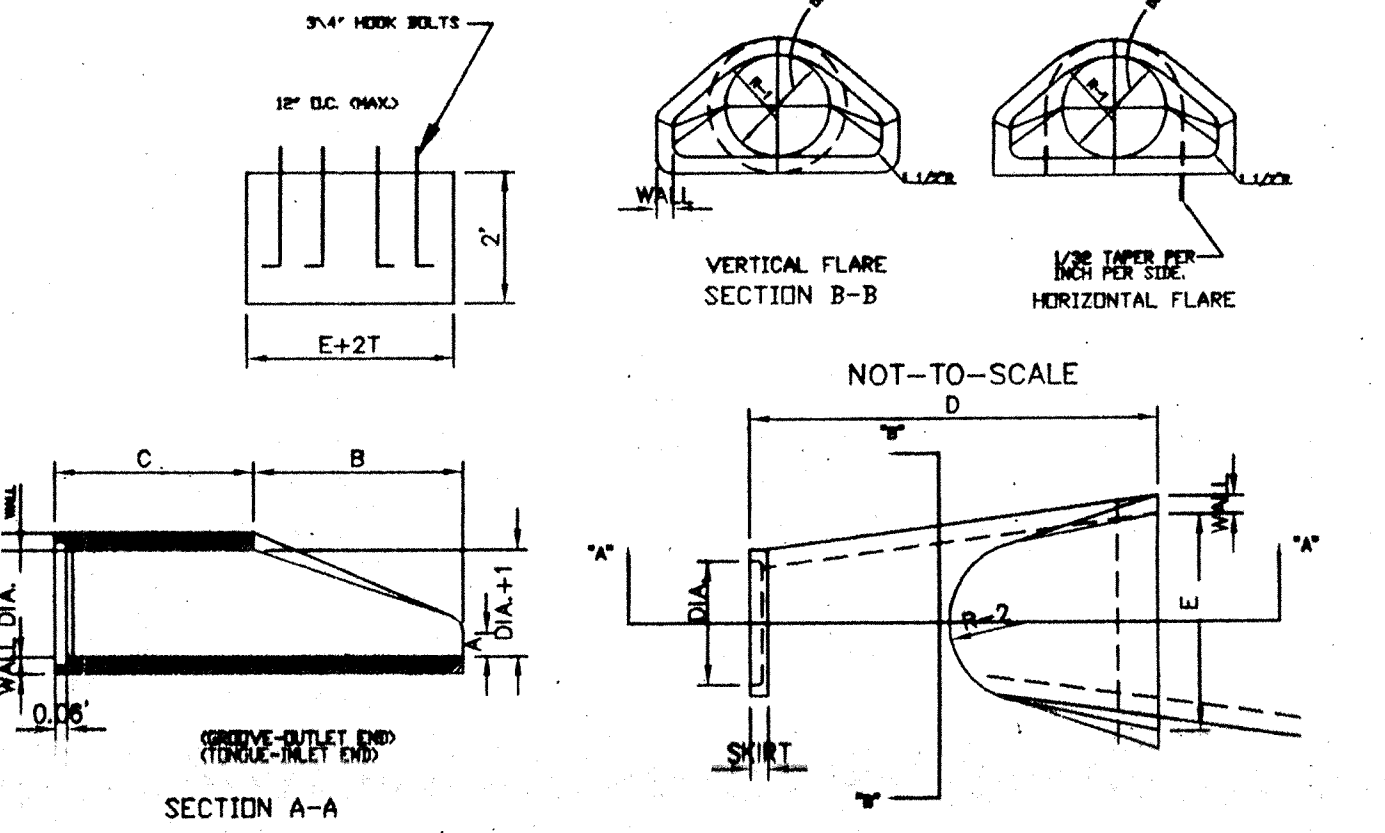
CURB STAMP  
NOT TO SCALE



ALL CUTS MADE IN OR UNDER ANY ROAD SURFACE SHALL BE BACKFILLED WITH GRANULAR MATERIAL. WHERE A CUT EITHER TRANSVERSES OR PARALLELS THE ROAD SURFACE, GRANULAR BACKFILL SHALL BE PLACED IN THAT PORTION OF THE CUT. THE ENTIRE EXCAVATED AREA WITHIN THE RIGHT-OF-WAY.  
 MATERIAL PLACEMENT AND COMPACTION SHALL CONFORM TO GENERAL ORDINANCE NO. 24, 1985, SECTION 28-328



STANDARD FULL DEPTH GRANULAR BACKFILL DETAILS  
STANDARD PLAN 92-01 & 92-02  
NOT TO SCALE



SECTION A-A																			
DIA.	WALL	G or TWT	SEC	A	B	C	D	E	DIA.	R-1	R-2	SKIRT							
12	2	1 1/2	530	4	24	48	1 1/2	7/8	24	13	10	1/16	9	3	1/2				
15	2	1/4	2	740	6	27	46	73	30	16	12	1/2	11	3	1/2				
18	2	1/2	2	990	9	27	46	73	38	19	15	1/2	12	4					
21	2	3/4	2	1490	9	38	58	73	42	18	18	1/2	13	4					
24	3	1	2	1520	9	42	43	72	30	73	1/2	48	25	18	11/16	14	4	1/2	
27	3	1/2	2	1930	10	1/2	48	25	1/2	54	28	17	3/4	14	1/2	4	1/2		
30	3	1/2	3	2190	12	54	19	3/4	3/4	60	31	18	5/16	15	5				
33	3	3/4	3	3150	13	1/2	1/2	289	1/2	287	3/4	66	34	23	3/4	17	1/2	5	1/2
36	4	1	2	4100	15	63	54	3/4	2/3	72	37	24	1/16	20	5	1/2			
42	4	1/2	3	5380	21	63	35	98	78	43	27	1/4	22	5	1/2				
48	5	4	1/4	6550	24	72	26	98	84	49	28	1/8	22	5	3/4				
54	5	1/2	4	8040	27	65	35	100	90	55	32	7/8	24	6	1/4				
60	6	5	8	8750	30	60	59	99	98	61	38	3/4	24	6	3/4				
66	6	1/2	5	11063	34	78	21	99	102	67	35	11/16	24	7	1/4				
72	7	6	12520	34	78	21	99	108	73	38	5/8	24	7	3/4					
78	7	1/2	6	14430	34	78	21	99	114	79	41	15/16	24	8	1/2				
84	8	7	16350	24	78	21	99	120	85	44	13/16	24	9						

NOTES: 1. MANUFACTURE OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.

PRECAST CONCRETE END SECTION DETAIL  
MAR 18 1996  
OFFICE OF HAMILTON COUNTY SURVEYOR

CERTIFIED: 3/15/96  
 CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS, INDIANA  
 CONSTRUCTION DETAILS  
 THE PARK @ WESTON PLACE  
 SECTION TWO  
 CARMEL, INDIANA  
 SHEET NO. 19  
 OF 19 SHEETS  
 19584B