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 — JWJ 12-12
- Sum drain length for Watershed in Posse — JWJ 12-12
- Check Database entries for errors — JDH 12-1

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Gasb 34 Footages for Historical Cost
Drain Length Log

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

Drain Type:	Size:	Length (SURVEYOR'S REPORT)	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSO	6"	7,628'	7,628'	∅		
RCP	15"	303'	303'	∅		
	18"	576'	576'	∅		
	21"	718'	718'	∅		
	24"	188'	188'	∅		
	27"	399'	399'	∅		
Sum:		9812'	9812'	∅		

Final Report: _____

Comments:

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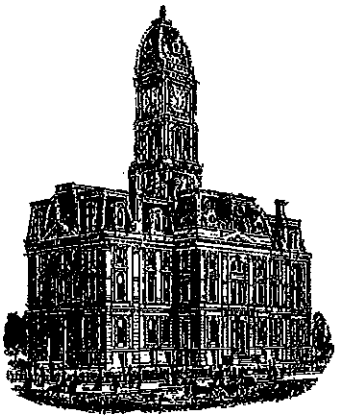

SURVEYOR'S OFFICE

Hamilton County

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 Name: Parks at Weston Section 2 Place

Date: 9-23-2016

Verified By: SLM

Drain Length: 9812

Change + / - : -1094

New Length: 8718

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

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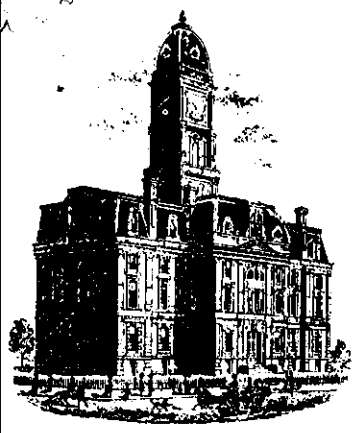
6/26/96
9:10



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.

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

Kenton C. Ward
Hamilton County Surveyor

KCW/ndw

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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: Nancy Ellen Oldham
Administrative Secretary

Revised 12/95

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SCHEER'S INCORPORATED
5650 S. BRAINARD, LA GRANGE, ILLINOIS 60525 708/352-6282
ROCKTILL, NEW YORK 12775-8000
(A Stock Company)

FILE COPY

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

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BONDS AND INSURANCE FOR THE CONSTRUCTION INDUSTRY
SCHEER'S INCORPORATED
5650 S. BRAINARD, LA GRANGE, ILLINOIS 60525 708/352-6282
ROCKTILL, 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

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THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that the 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

By: _____

FRONTIER INSURANCE COMPANY
Surety

By: Alice Rhoads
Alice Rhoads Attorney-in-Fact

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[illegible]WER OF ATTORNEY

[illegible] FRONTIER INSURANCE COMPANY, a New York Corporation, having its principal office in [illegible] resolution, adopted by the Board of Directors of the Corporation on the 4th day of November, 1985:

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

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

[illegible] 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 [illegible] executing or guaranteeing bonds and undertakings required or permitted in all actions or proceedings or by law [illegible] HUNDRED THOUSAND ($3,500,000.00) DOLLARS; and to bind FRONTIER [illegible] the duly authorized officers of

State of Illinois
County of Cook } ss:

On 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

nown 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

"OFFICIAL SEAL"
DAWN L. MORGAN
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 3/29/2000

Dawn L. Morgan
Notary Public

NOTARY PUBLIC STATE OF NEW YORK

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, 19 96.

FRONTIER INSURANCE COMPANY CORPORATE SEAL 1962 NEW YORK

Joseph P. Loughlin
JOSEPH P. LOUGHLIN, Secretary

M 19-5002-A (4/96)

W-12410-6/96-10M

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CERTIFICATE OF COMPLETION AND COMPLIANCE

Address of premises on which land
alteration was accomplished 106th Street and Michigan Road

Inspection Date(s):_____ Permit No._____

Relative to plans prepared by: Stoeppelwerth & 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. Stoeppelwerth Date: 11/11/96

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

Business Address: 9940 Allisonville Road, Fishers, IN 46038

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

(SEAL)

FORMS/COMP&C

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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.
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

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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,

Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

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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	891.18	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: _____

6" SSD Lots:

Total: _____

RCP Pipe Totals:

Other Drain:	

Total Length of Drain: _____

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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 160 @ 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: _____

6" SSD Lots:

Total: _____

RCP Pipe Totals:

Other Drain:	

Total Length of Drain: _____

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Asbuilt Structures

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

Structure:	T.C.:	I.E.:	Pipe:	Length:	Original Plans:	Difference:
893	899.49	898.88				
Ex.	—	894.17	27"	180'	FRM 148'	

6" SSD Streets:

Constitution DR	870.30
Putnam Place	945.0
Gettysburg Place	1140.0
Freeman Court	168.92
↓	50.0
Putnam Culdesac	640'

Total: 3814.27 x 2 = 7628.54

6" SSD Lots:

Total: _____

RCP Pipe Totals:

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

2184'

Total Length of Drain: 9812

Other Drain:	

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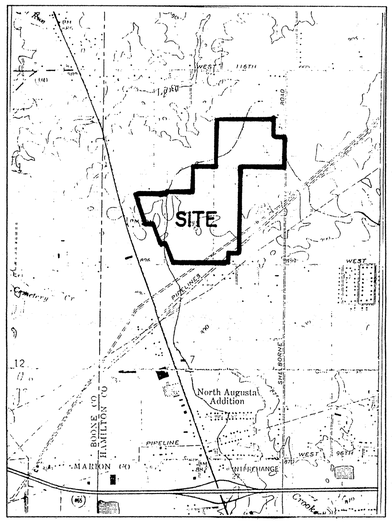
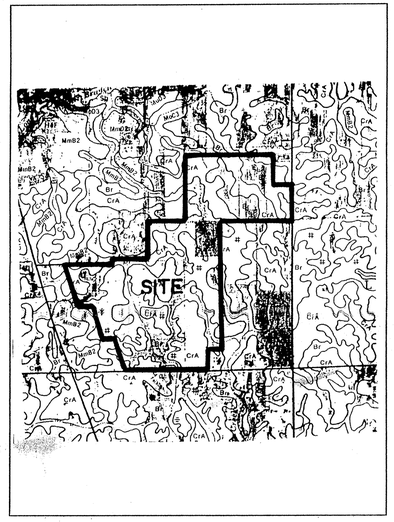
THE PARK @ WESTON PLACE
SECTION TWO



LOCATION MAP



SOILS MAP

MmB2	MIAMI
Br	BROOKSTON
CrA	CROSBY

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

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

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'

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.

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. Stoeppelwerth 3/15/96
DAVID J. STOEPPELWERTH DATE
PROFESSIONAL ENGINEER
NO. 19358

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

FILED
MAR 18 1996
OFFICE OF HAMILTON COUNTY SURVEYOR

F:\DWG\P\1958#P2\S2-COVER Wed Mar 13 14:52:51 1996 MAB

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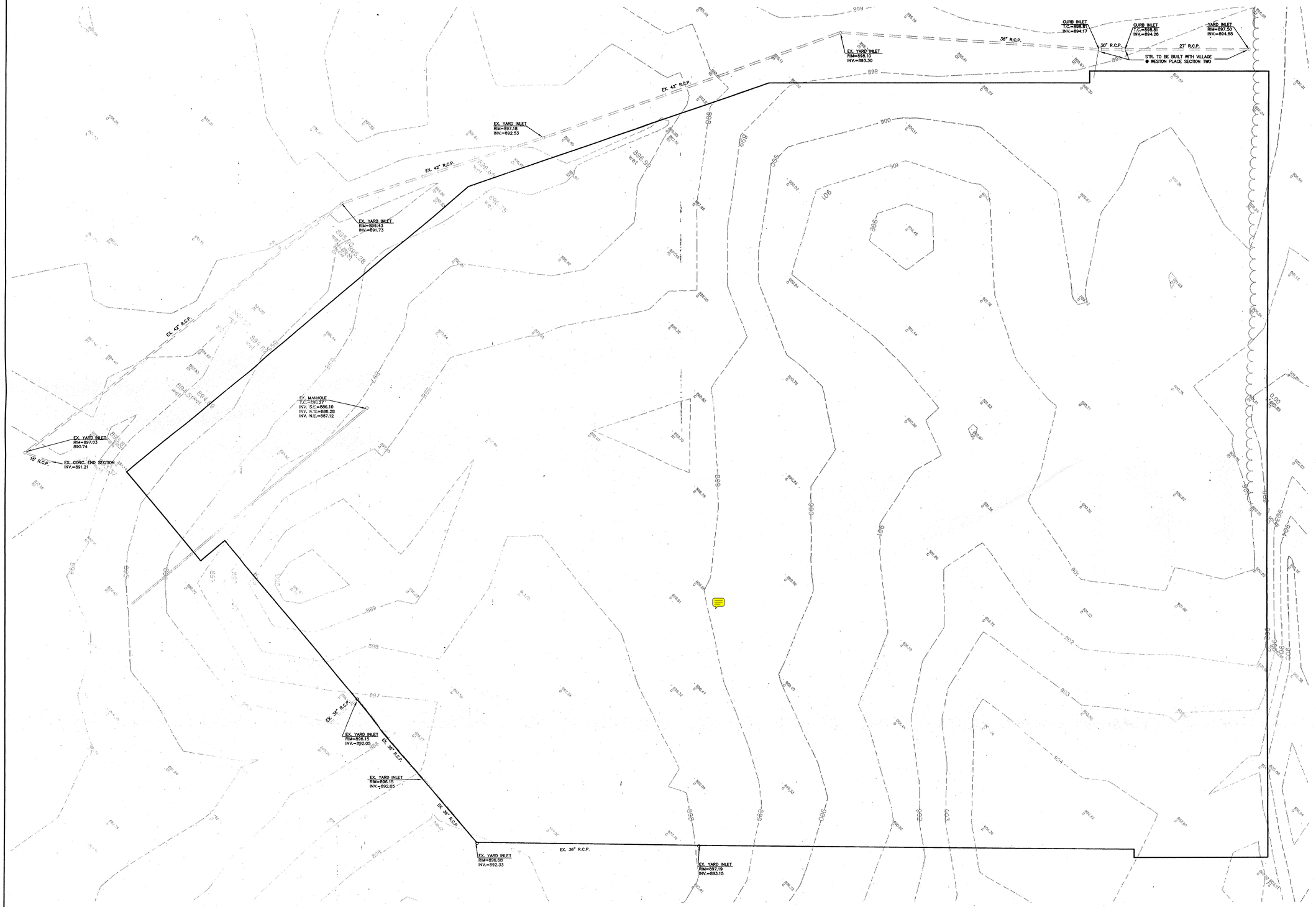
BENCHMARK:
U.S.G.S. S-78
STANDARD TABLET SET IN CONCRETE APPROX.
1000' N. OF 106th ST. @ EAST R/W LINE
OF US #421. ELEV.=900.77

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'



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

CERTIFIED: 3/15/96

David J. Stoeppelwerth

DWN. BY WAB
CK. BY WAB
SCALE 1"=50'
DATE 3/15/96

DATE	MARK	REVISIONS	BY

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

F:\DWG\P\19584P2\S2-TOPO Wed Mar 13 14:55:25 1996 WAB

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EARTHWORK:

1. EXCAVATION
   - A. 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.
   - B. 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.
2. REMOVAL OF TREES
   - A. All trees and stumps from area to be occupied by a road surface area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
   - A. 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.
   - B. 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.
4. REMOVAL OF TOPSOIL
   - A. 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.
5. UTILITIES
   - A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
   - B. 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.
6. SITE GRADING
   - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
   - B. 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.
   - C. 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 TABLET 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
EASTERN RED & WHITE GAS LINE MARKER.
ELEV.=895.04

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% OF 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	Tc/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 / 853.0 ☆ LOT NUMBER / 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. VILLAGE @ WESTON PLACE SECTION 1

EX. PARK @ WESTON PLACE SECTION 1

GETTYSBURG PLACE

PUTNAM PLACE

FREEMAN COURT

CONSTITUTION DRIVE

STR. TO BE BUILT WITH VILLAGE @ WESTON PLACE SECTION TWO

FILED
MAR 18 1996
OFFICE OF HAMILTON COUNTY SURVEYOR

DAVID L. STEPHENSON No. 19358 STATE OF INDIANA REGISTERED LAND SURVEYOR

BY	REVISIONS	DATE	MARK

DWN. BY WAB
CK. BY WAB
SCALE 1"=50'
DATE 3/15/96

CERTIFIED: 3/15/96

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
CARMEL INDIANA

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

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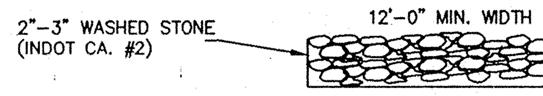
THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

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



STONE ACCESS DRIVE DETAIL

NOTE: TO CONTRACTOR

1. Prior to any work commencing contractor shall install stone drive at entrance, and all silt fences shown on plan.
2. ~~Upon completion of the storm structure from being built the fabric drop inlet protection is~~ to be installed ON curb inlets and straw bales on yard inlets immediately.
3. 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

1. CONSTRUCT A GRAVEL DRIVE
2. CONFINE ALL TRAVEL TO THE GRAVEL DRIVE
3. PRESERVE AS MUCH OF THE EXISTING VEGETATION AS POSSIBLE
4. IF THERE ARE LARGE EXPOSED AREAS ON OR NEAR SLOPES A SILT FENCE MAY BE REQUIRED
5. AFTER FINAL GRADING, SEED OR SOD THE YARD AS SOON AS POSSIBLE
6. 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 3.83, 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.)

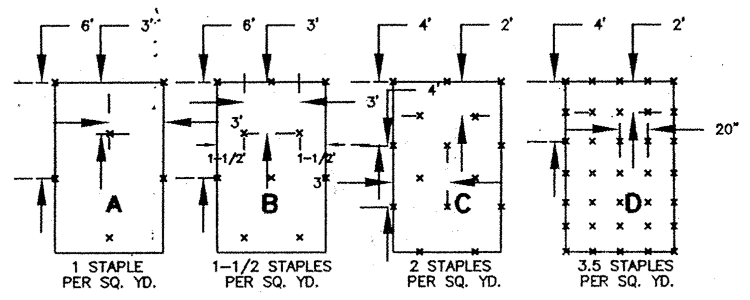
Spring/Summer: Install strawbale inlet protection. Install rock chute outlet protection. Install temporary erosion control blankets as needed. Track in ridges with dozer cleats on all slopes greater than six percent and around side slopes of lakes.

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.

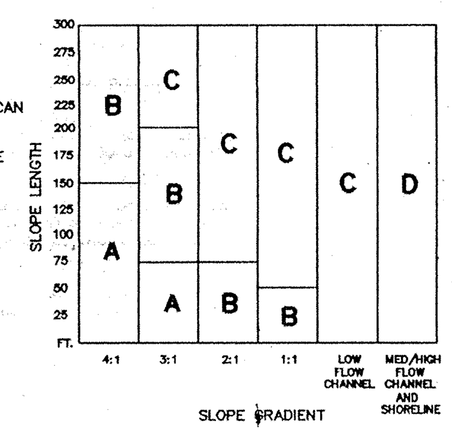
Winter/Spring: Apply dormant seeding on any areas that show a need for it. Continue maintenance of existing erosion control practices.

Spring/Summer/Fall (following year): Stabilize all open ground and remove temporary erosion control practices. Implement final landscape plan.

FORMS\18545ECM



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:

1. Contractor shall install sediment traps and straw bale filters, as shown.
2. 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.
3. 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.
4. 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 Contractors expense. Payment for additional rip rap (not shown on plans) and seeding shall be paid for on a unit basis.
5. 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:

1. Ditch Banks: shall be seeded and covered with North American Green fiber blanket #S150 and #SC150 (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: 110#/acre or 2.5#/1000 S.F.
Seeding mixture: 38% Kent. 31 Fescue
19% Perennial Rye
19% Annual Rye
14% Orchard Grass
10% Kent. Bluegrass

2. 4" of topsoil (minimum) shall be placed prior to permanent seeding.

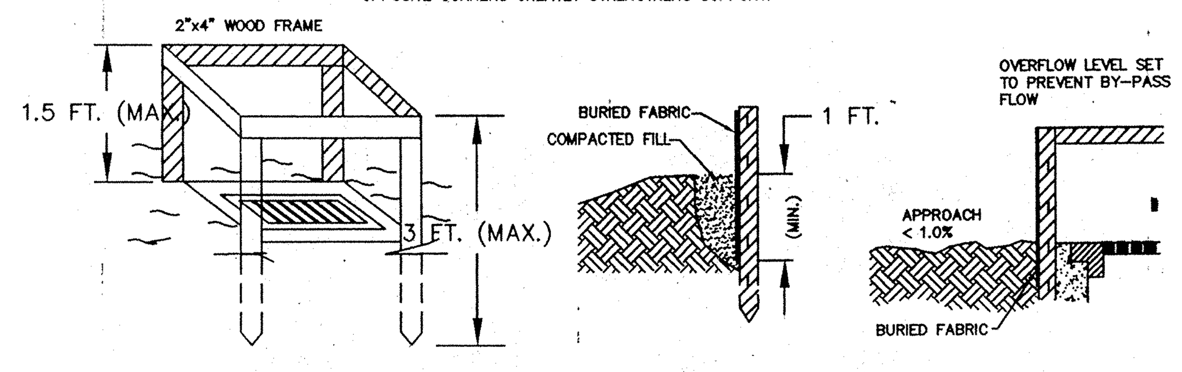
3. If grades are established between May 15 and August 10, a temporary seeding consisting of 40# of Annual Ryegrass shall be planted per acre.

4. If grades are established between October 15 and December 30, either Rye (grain) or Wheat may be used at the rate of 2 bushels/Ac. All grains should be mowed prior to seed maturing.

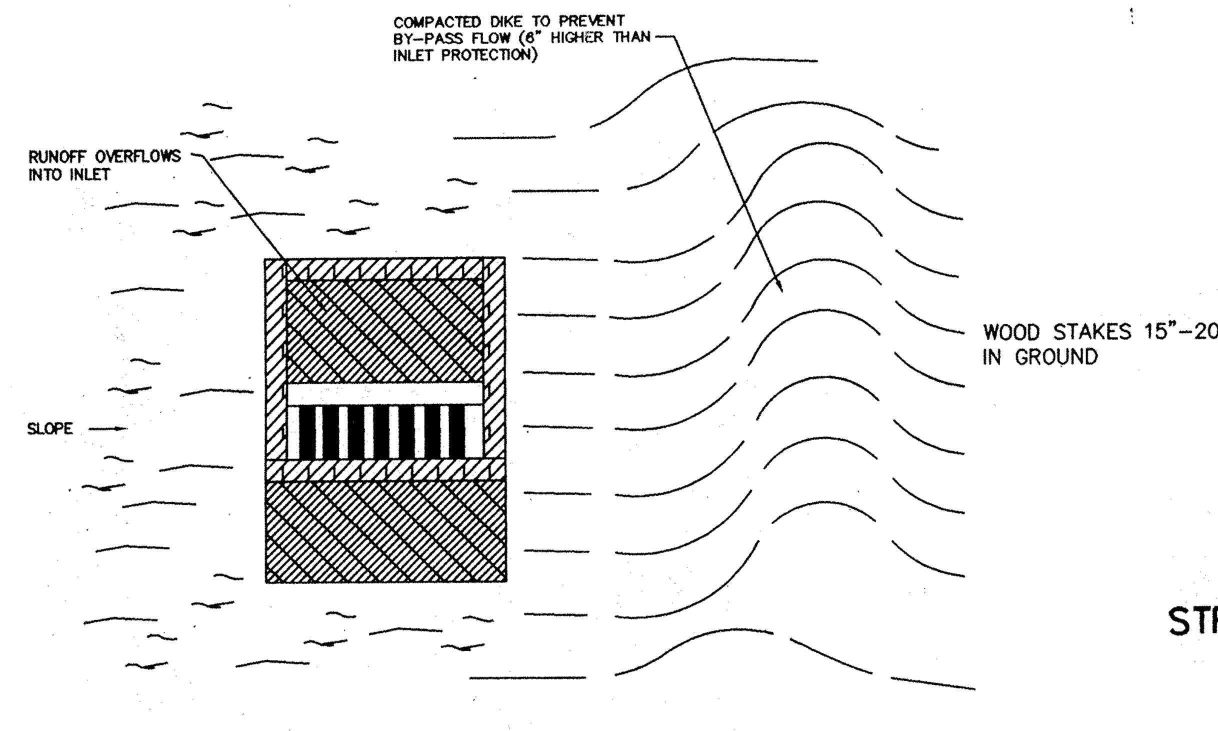
5. If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.

6. If grading occurs during December, January, or February, use dormant seeding and it should be done within 7 days of last land disturbing activity.

REQUIREMENTS: CONTRIBUTING DRAINAGE AREA: 1 ACRE MAXIMUM.
CAPACITY: RUNOFF FROM A 2 YR. FREQUENCY, 24 HR. DURATION STORM EVENT ENTERING A STORM DRAIN WITHOUT BYPASS FLOW.
FABRIC MATERIAL: GEOTEXTILE FABRIC FOR FILTRATION.
HEIGHT OF FABRIC: 1 TO 1-1/2 FT., MEASURED FROM TOP OF INLET.
APPROACH: POOL AREA FLAT (LESS THAN 1% SLOPE) WITH SEDIMENT STORAGE OF 945 CU.FT./ACRE DISTURBED.
STABILITY: STRUCTURE MUST WITHSTAND 1-1/2 FT. HEAD OF WATER AND SEDIMENT WITHOUT COLLAPSING OR UNDERCUTTING.
SUPPORT POSTS: STEEL FENCE POSTS OR 2"x2" OR 2"x4" HARD WOOD POSTS, 3FT. MIN. LENGTH, 3 FT. MAX. SPACING; TOP FRAME SUPPORT RECOMMENDED. CROSS BRACING TOPS OF POSTS TO OPPOSITE CORNERS GREATLY STRENGTHENS SUPPORT.

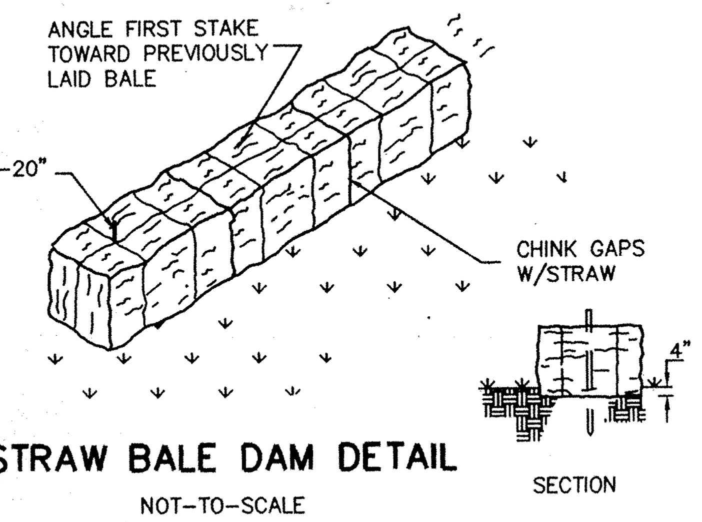


INSTALLATION:
1. TO PREVENT RUNOFF FROM BYPASSING THE INLET, SET THE TOP OF THE FABRIC AT LEAST 6" BELOW THE DOWNSLOPE GROUND ELEVATION, OR BUILD A TEMPORARY DIKE (COMPACTED TO 6" HIGHER THAN THE FABRIC) ON THE LOW SIDE OF THE INLET.
2. CUT THE FABRIC FROM A SINGLE ROLL TO ELIMINATE JOINTS. (PROVIDE AT LEAST 2' OF OVERLAP IF A JOINT IS NEEDED.)
3. BURY THE BOTTOM OF THE FABRIC AT LEAST 1' DEEP, BACKFILL, AND COMPACT THE BACKFILL.
4. 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:
1. INSPECT THE FABRIC BARRIER AFTER STORM EVENTS, AND MAKE NEEDED REPAIRS IMMEDIATELY.
2. REMOVE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM. AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING SEDIMENT REMOVAL.
3. 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)



STRAW BALE DAM DETAIL
NOT-TO-SCALE

Temporary straw bale dam to be removed during blanket installation.

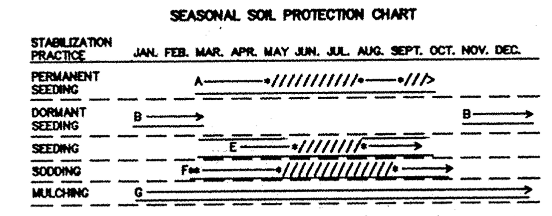
Denotes seeding & mulch areas
Seeding rate: 130#/acre or 3#/1000 S.F.
Seeding mixture: 25% creeping red fescue
35% perennial rye
40% Kentucky bluegrass

Denotes seeding w/fiber blanket #S150 by North American Green
Seeding rate: 110#/acre or 2.5#/1000 S.F.
Seeding mixture: 38% Kentucky 31 fescue
19% perennial rye
19% annual rye
14% orchard grass
10% Kentucky bluegrass

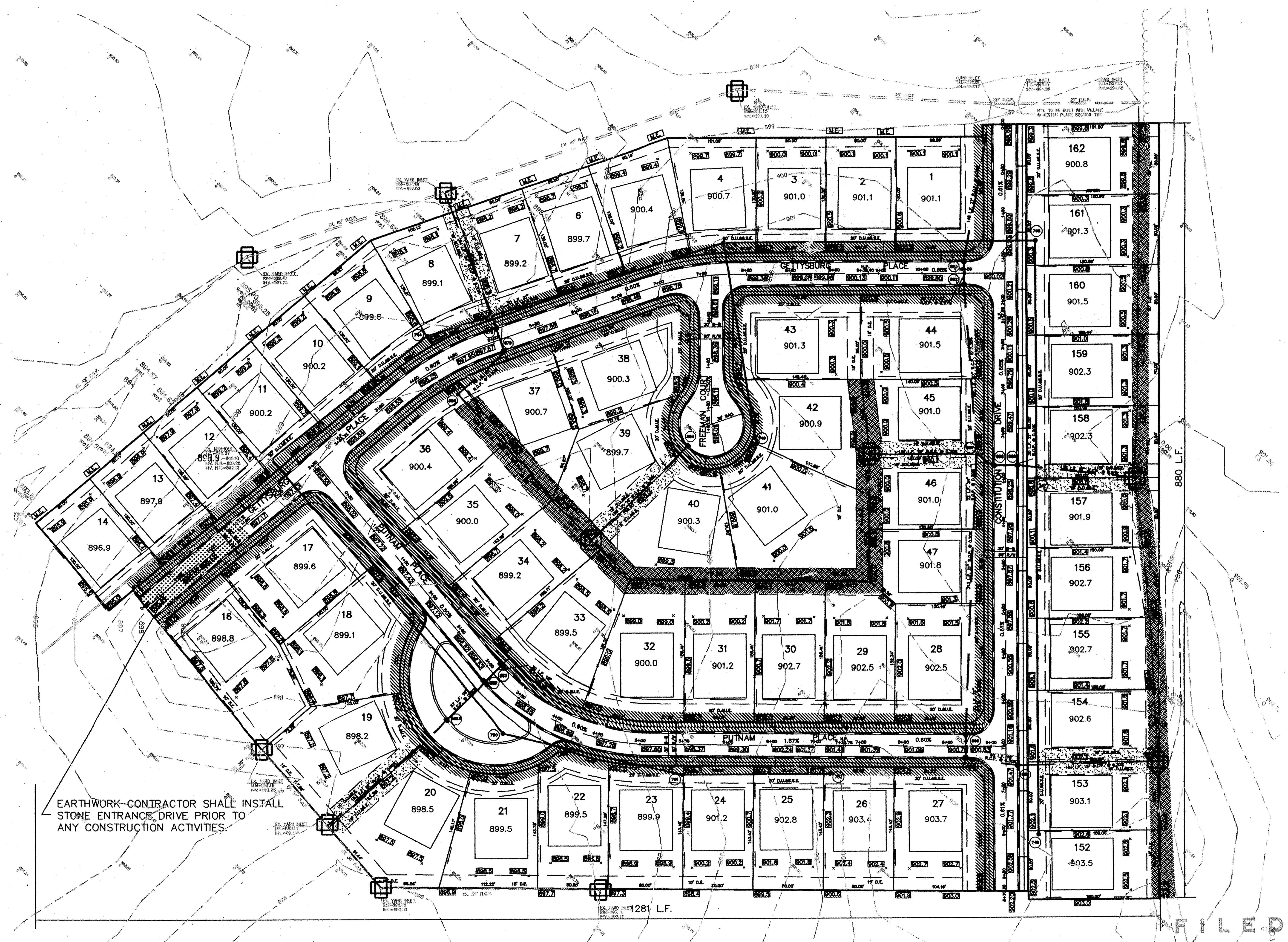
Denotes permanent seeding & mulching.
Seeding rate: 50#/acre
Seeding mixture: 100% perennial rye.

SCALE: 1"= 80'

SEASONAL SOIL PROTECTION CHART



A = KENTUCKY BLUE GRASS 40 lbs./AC.; CREEPING RED FESCUE 40 lbs./AC.; PLUS 2 TONS STRAW MULCH/AC. OR ADD ANNUAL RYEGRASS 20lbs>/AC.
B = KENTUCKY BLUE GRASS 60 lbs./AC.; CREEPING RED FESCUE 60 lbs./AC.; PLUS 2 TONS STRAW MULCH/AC. OR ADD ANNUAL RYEGRASS 30lbs>/AC.
C = SPRING OATS 3 BUSHEL/ACRE
D = WHEAT OR RYE 2 BUSHEL/ACRE
E = ANNUAL RYEGRASS 40 lbs./AC. (1 lb./1000 sq. ft.)
F = SOD
G = STRAW MULCH 2 TONS/ACRE
•///• = IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPT.
•• = IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD



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

CERTIFIED: 3/15/96
David J. Stoeppelwerth

DWN. BY	CK. BY	SCALE	DATE
WAB	WAB	1"=80'	3/15/96

DATE	MARK	REVISIONS	BY

STOEPPELWERTH & Associates Inc.
CONSULTING ENGINEERS – LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX:(317) 849-5942
INDIANAPOLIS INDIANA

EROSION CONTROL PLAN
THE PARK @ WESTON PLACE
SECTION TWO
CARMEL INDIANA

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

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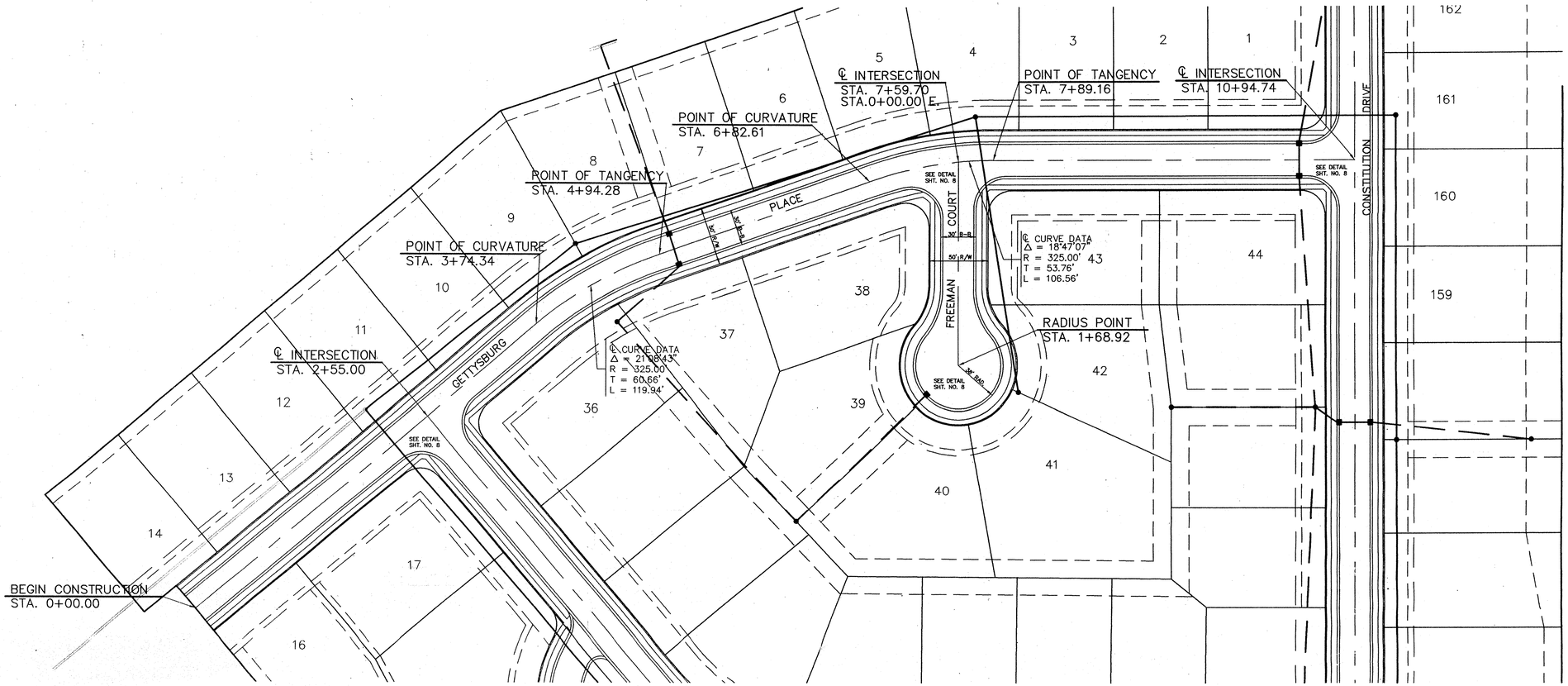

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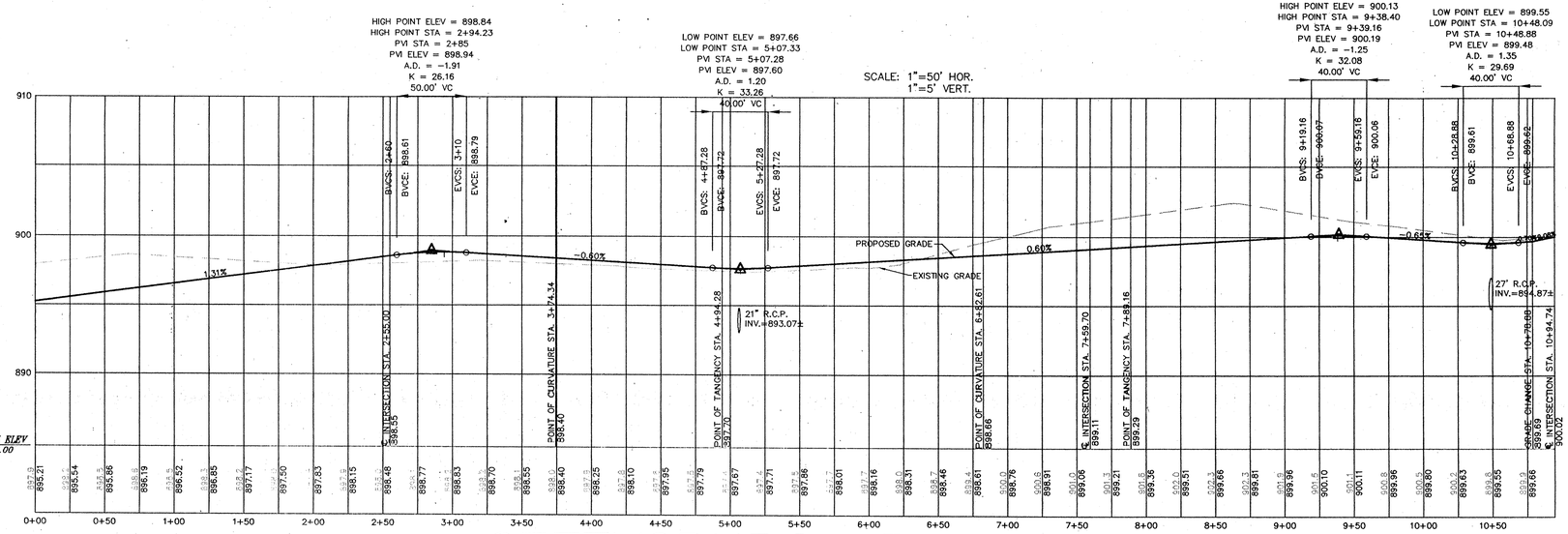
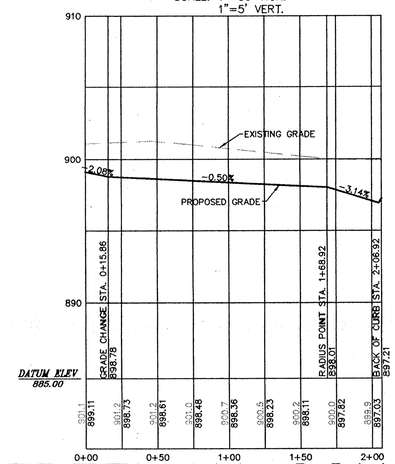


GETTYSBURG PLACE



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

BY	REVISIONS	DATE	MARK

DWN. BY: WAB
CK. BY: WAB
SCALE: 1"=50'
DATE: 3/15/96

CERTIFIED: 3/15/96

David J. Stoeppelwerth

CONSULTING ENGINEERS – LAND SURVEYORS
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INDIANAPOLIS INDIANA

STREET PLAN & PROFILES
THE PARK @ WESTON PLACE
SECTION TWO

CARMEL INDIANA

SHEET NO. 5 OF 19 SHEETS
JOB NO. 19584B

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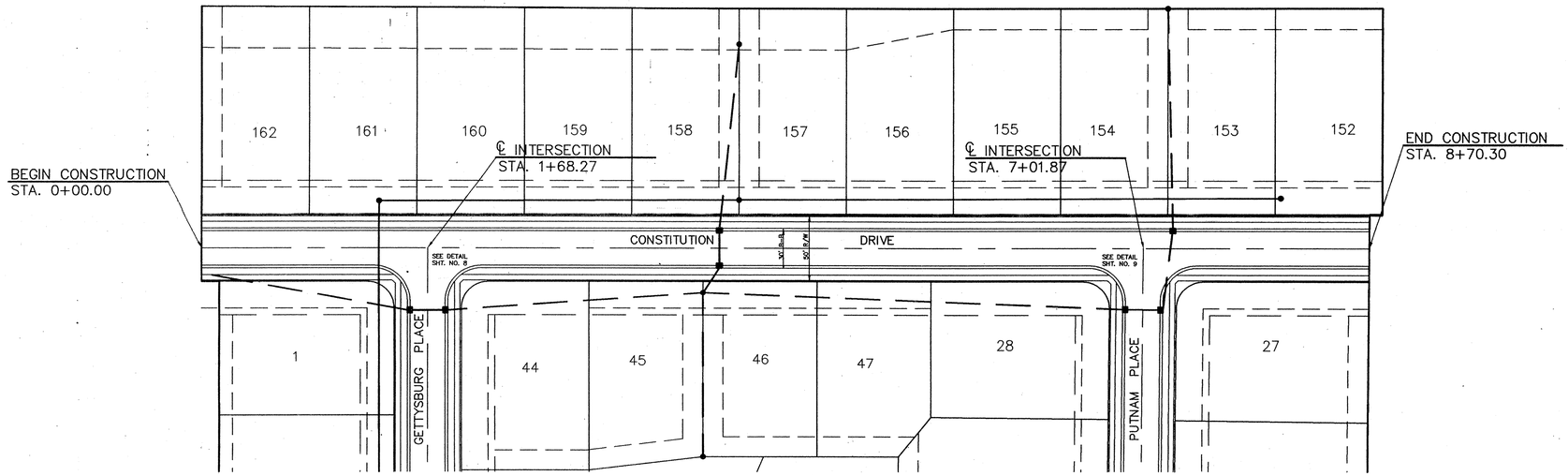

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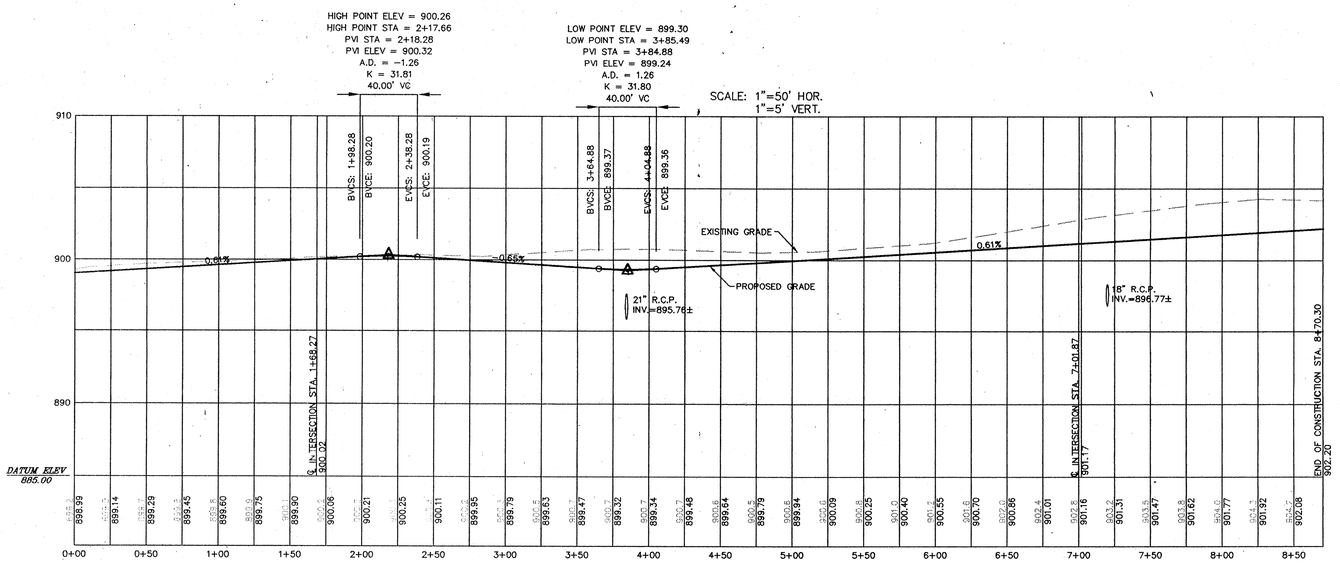

CONSTITUTION DRIVE

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

BY	REVISIONS	MARK	DATE

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David J. Stoeppelwerth

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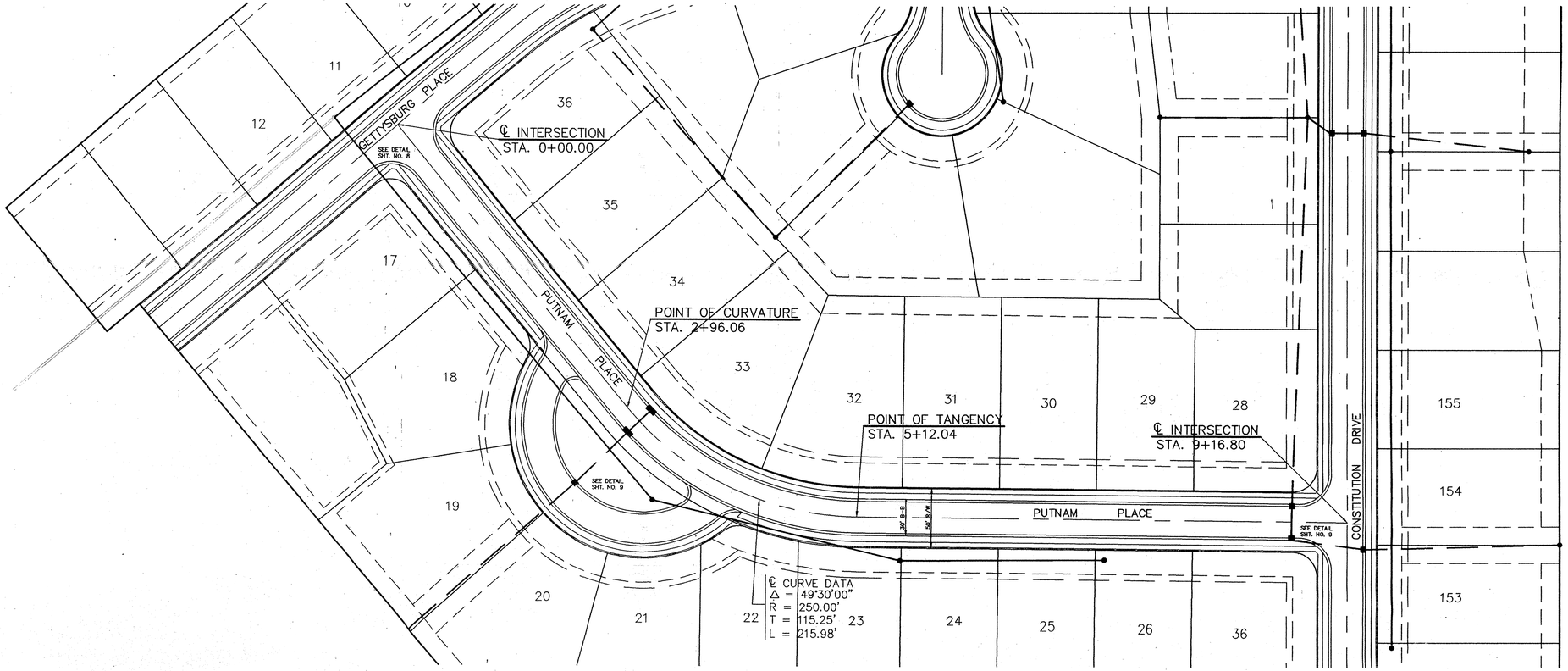
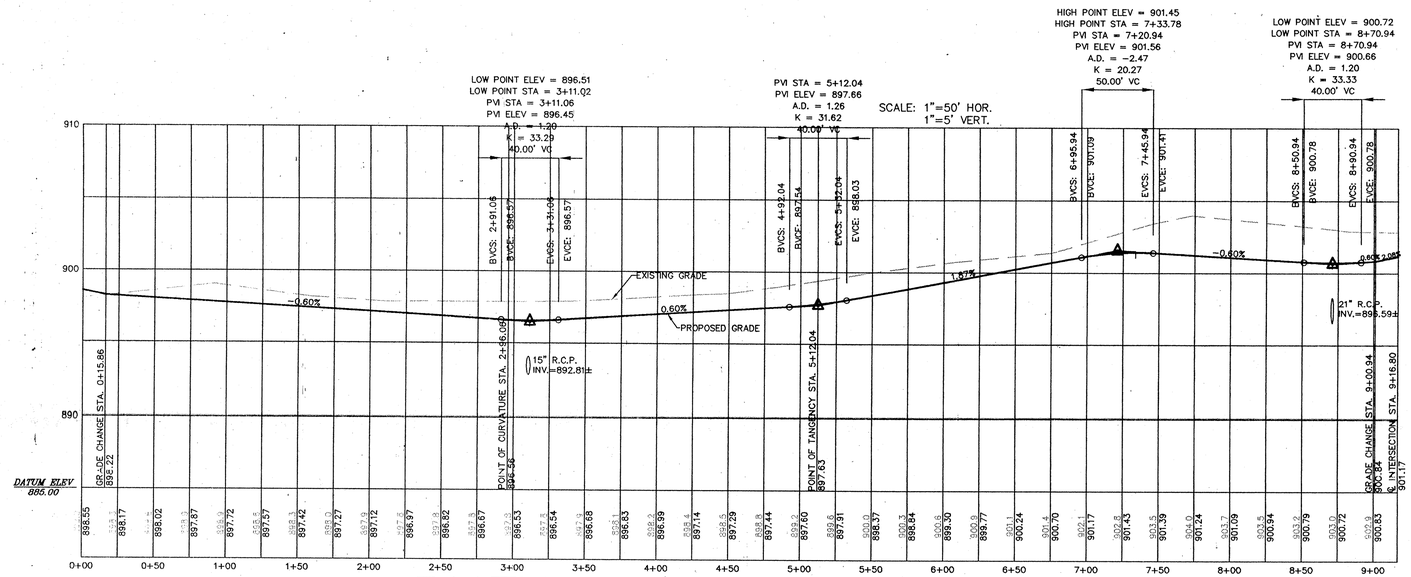


SCALE: 1"= 50'



PUTNAM PLACE

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

BY	REVISIONS	MARK	DATE

CERTIFIED: 3/15/96

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

David J. Stoeppelwerth

CONSULTING ENGINEERS – LAND SURVEYORS
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INDIANAPOLIS INDIANA

STREET PLAN & PROFILES
THE PARK @ WESTON PLACE
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SHEET NO. 7
OF 19 SHEETS
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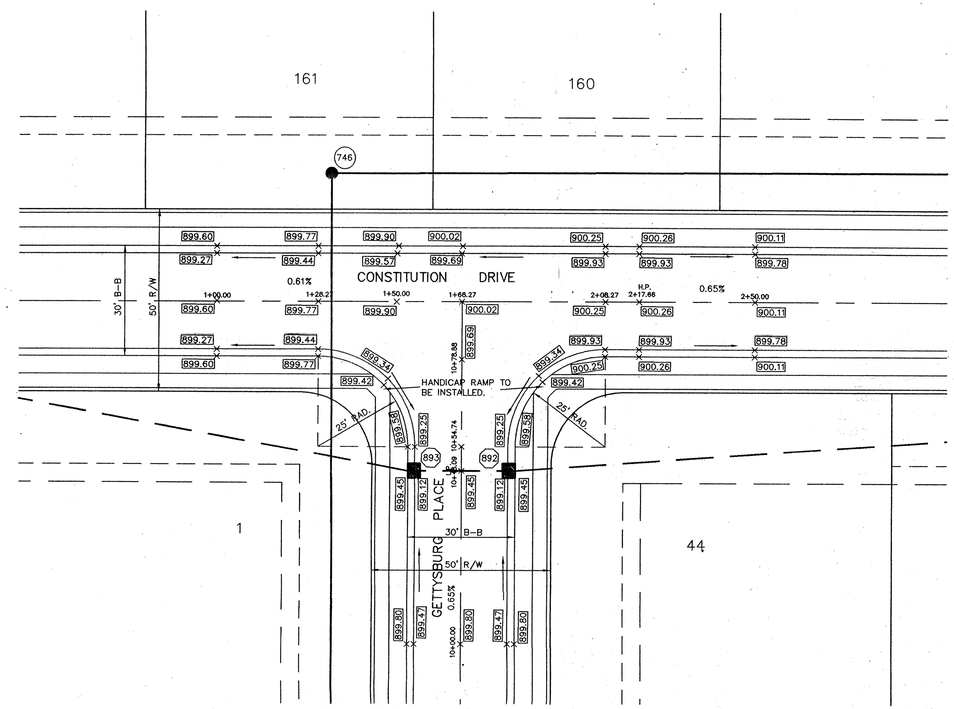

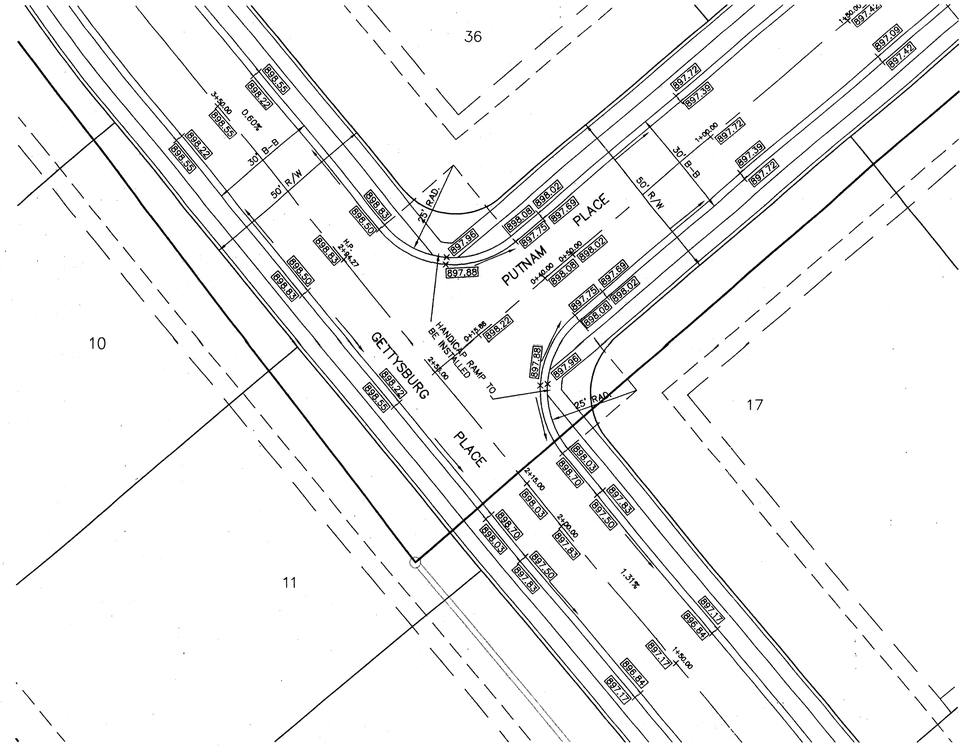

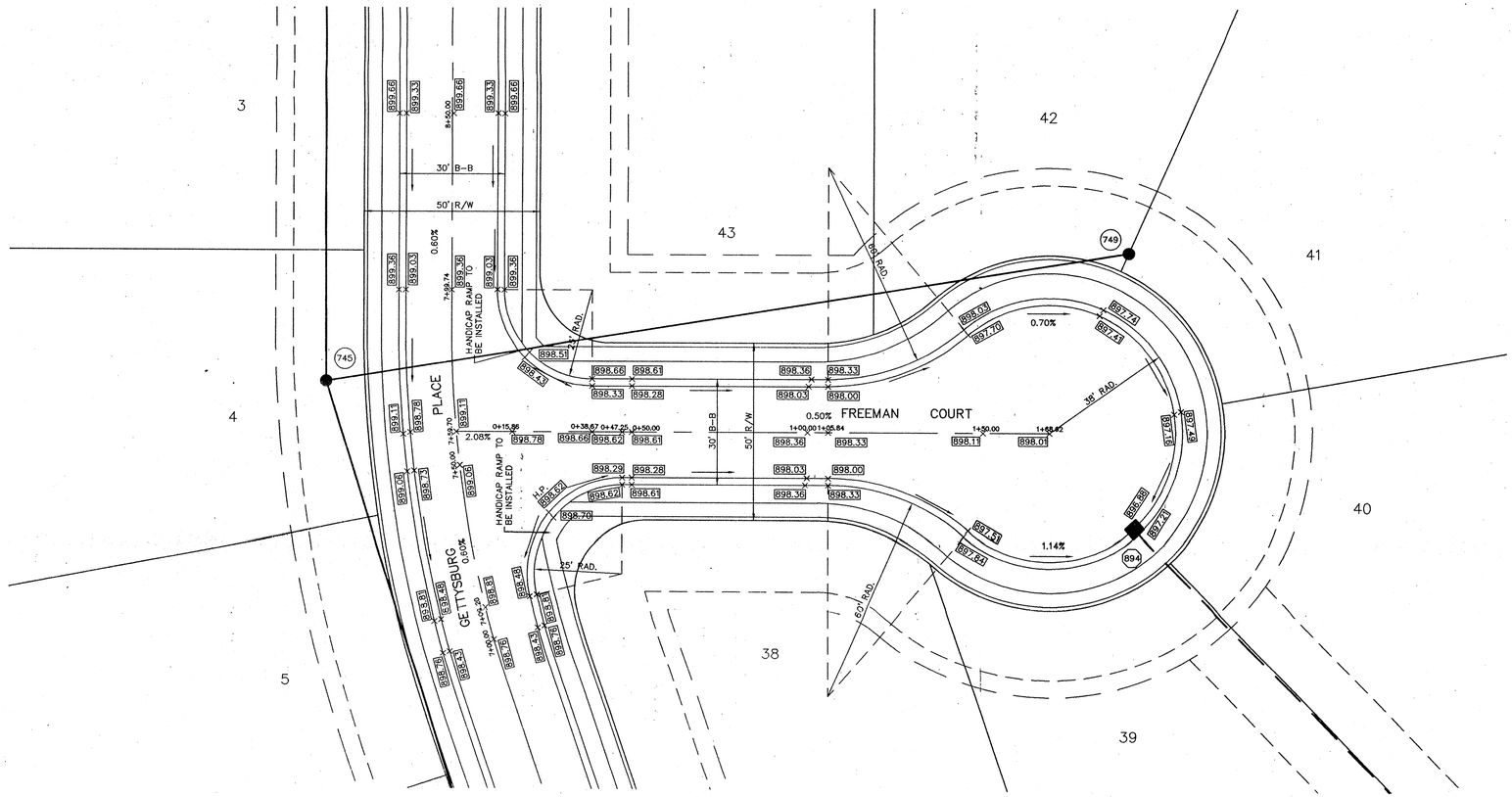

SCALE: 1"= 20'

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

CERTIFIED: 3/15/96

David J. Stoeppelwerth

BY	REVISIONS	DATE	MARK

DRW. BY WAB
CK. BY WAB
SCALE 1"=20'
DATE 3/15/96

STOEPPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS – LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX:(317) 849-5942
INDIANAPOLIS INDIANA

INTERSECTION DETAILS
THE PARK @ WESTON PLACE SECTION TWO

CARMEL INDIANA

FILED
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SHEET NO. 8 OF 19 SHEETS
JOB NO. 19584B

F:\DWG\P\19584P2\S2-INT1 Wed Mar 13 15:38:46 1996 WAB

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SCALE: 1"= 20'

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

BY	REVISIONS	MARK	DATE

DWN. BY WAB
CK. BY WAB
SCALE 1"= 20'
DATE 3/15/96

CERTIFIED: 3/15/96

David J. Stoeppelwerth

CONSULTING ENGINEERS – LAND SURVEYORS
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INTERSECTION DETAILS
THE PARK @ WESTON PLACE SECTION TWO

CARMEL INDIANA

SHEET NO. 9 OF 19 SHEETS

JOB NO. 19584B

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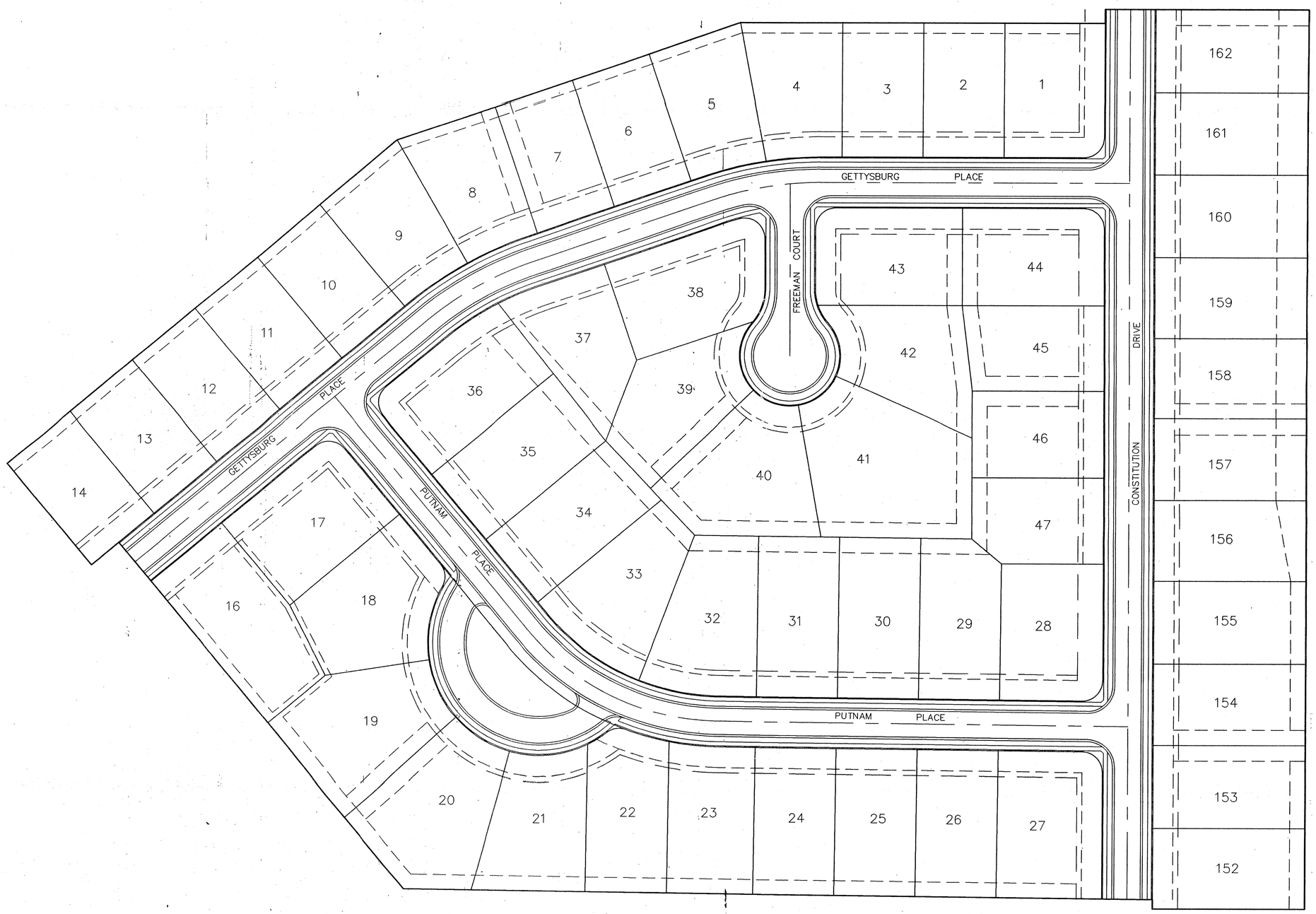

SCALE: 1"= 50'

STOP STOP SIGN

25 25 M.P.H. SIGN

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

CERTIFIED: 3/15/96

David J. Stoeppelwerth

DWN. BY	CK. BY	SCALE	DATE	MARK	REVISIONS	BY
WAB	WAB	1"=50'	3/15/96			

STOEPPELWERTH & ASSOC. INC.
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INDIANAPOLIS INDIANA

TRAFFIC CONTROL PLAN
THE PARK @ WESTON PLACE SECTION TWO
CARMEL INDIANA

SHEET NO. 10 OF 19 SHEETS

JOB NO. 19584B

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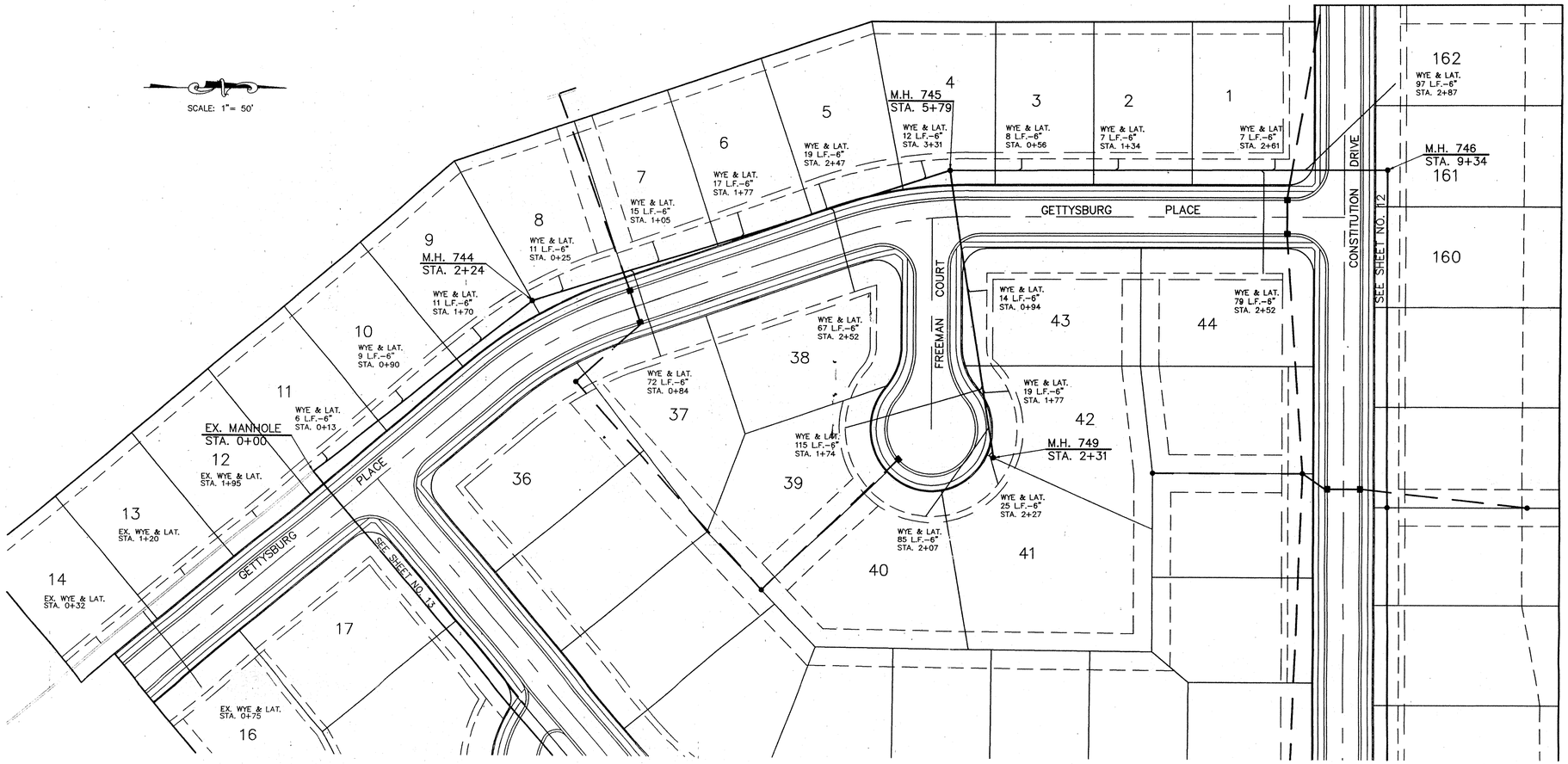


NOTES

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

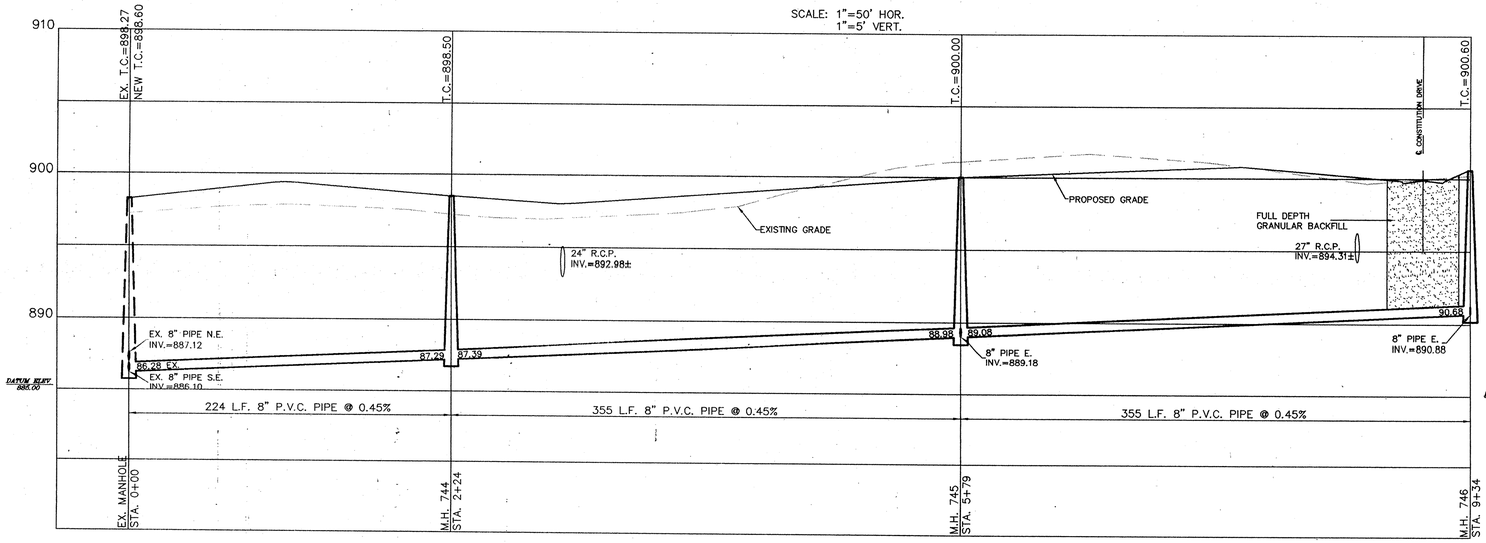
MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

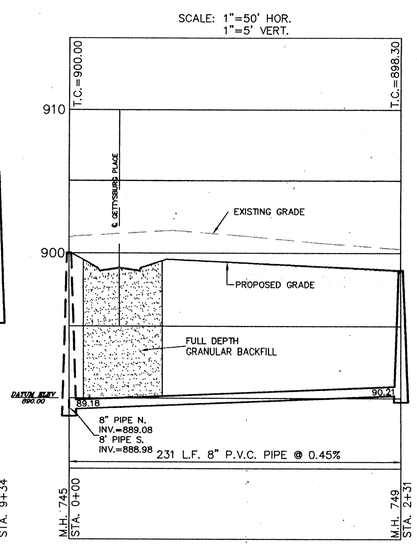
CONTRACTOR SHALL EXTEND SEWER LATERALS AS SHOWN. IN NO CASE SHALL END OF LATERAL BE CLOSER THAN 5' TO BUILDING SETBACK LINE.

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.

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

CERTIFIED: 3/15/96





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DATE 3/15/96				

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INDIANAPOLIS INDIANA

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

CARMEL INDIANA

SHEET NO. 11 OF 19 SHEETS

JOB NO. 19584B

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NOTES

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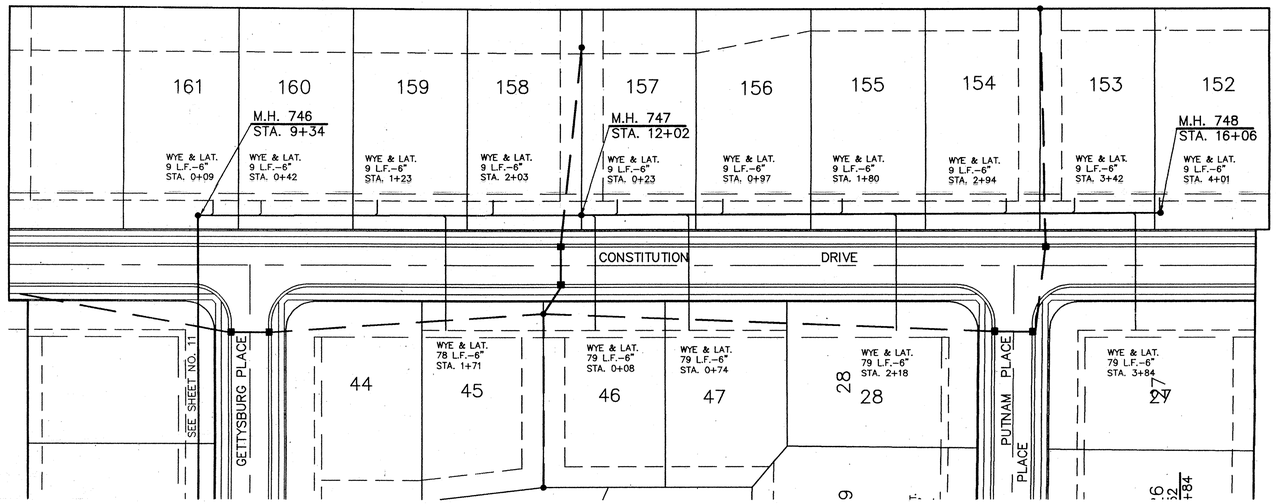

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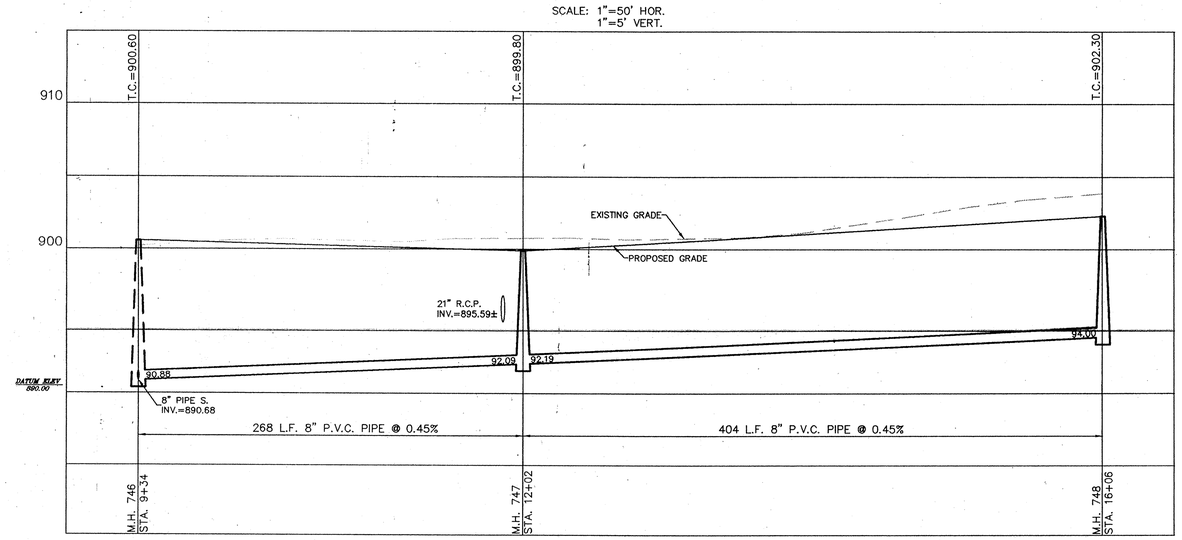

DAVID J. STOEPPELWERTH
REGISTERED
No. 19358
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED: 3/15/96

David J. Stoeppelwerth

BY	REVISIONS	MARK	DATE

DWN. BY WAB
CK. BY WAB
SCALE 1"=50'
DATE 3/15/96

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

CARMEL INDIANA

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SHEET NO. 12 OF 19 SHEETS

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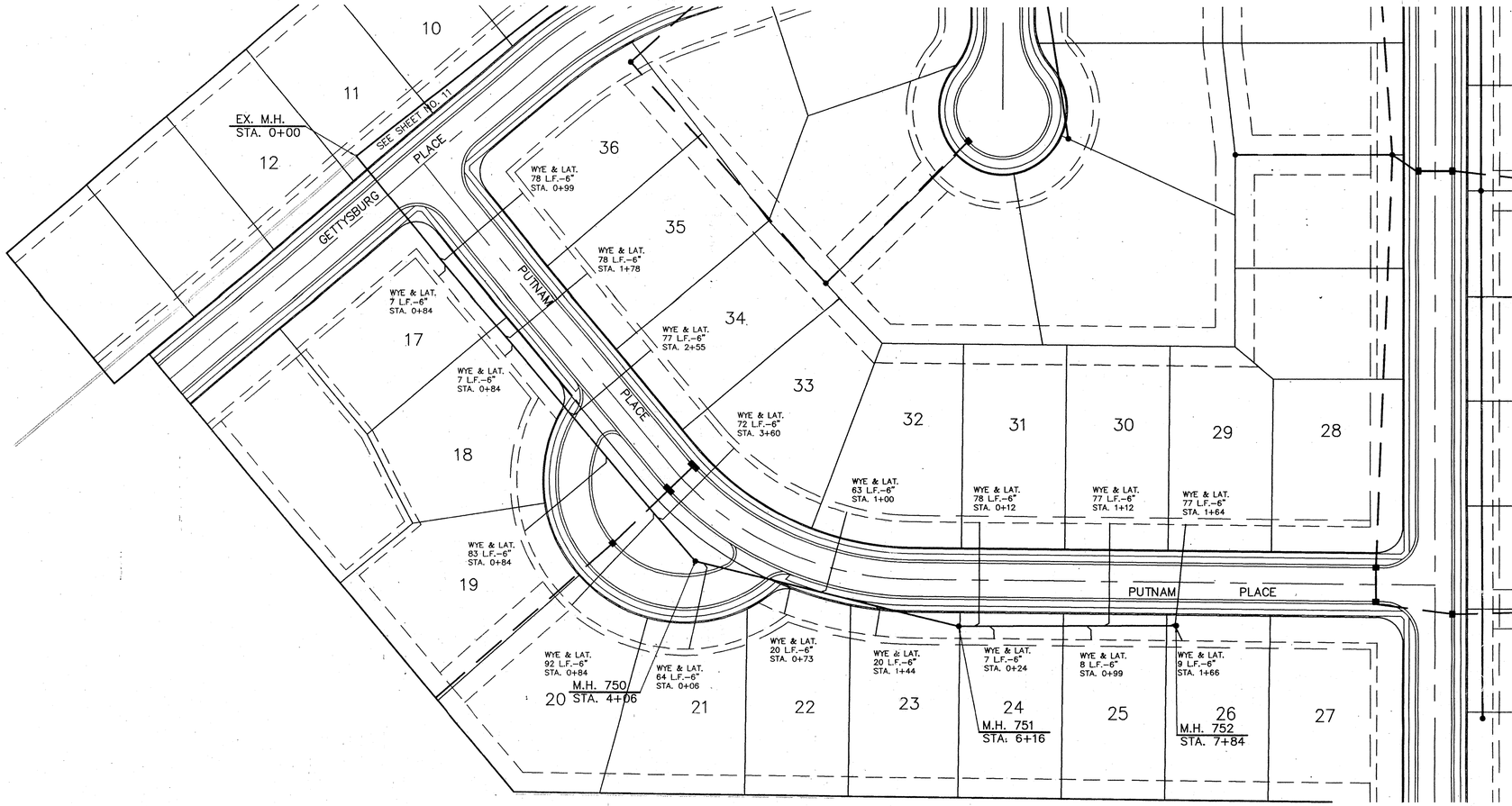

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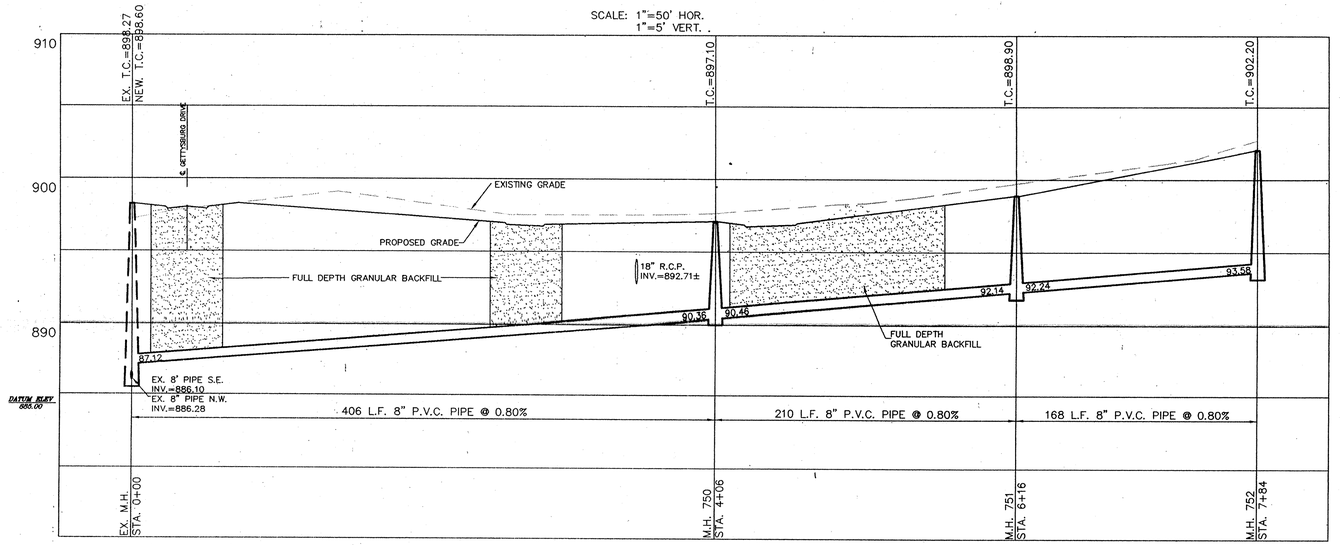

NOTES

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

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

CERTIFIED: 3/15/96

David J. Stoeppelwerth

BY	REVISIONS	MARK	DATE

DWN. BY WAB
CK'D BY WAB
SCALE 1"=50'
DATE 3/15/96

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INDIANAPOLIS INDIANA

SANITARY SEWER PLAN & PROFILE
THE PARK @ WESTON PLACE
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CARMEL INDIANA

SHEET NO. 13 OF 19 SHEETS
JOB NO. 19584B

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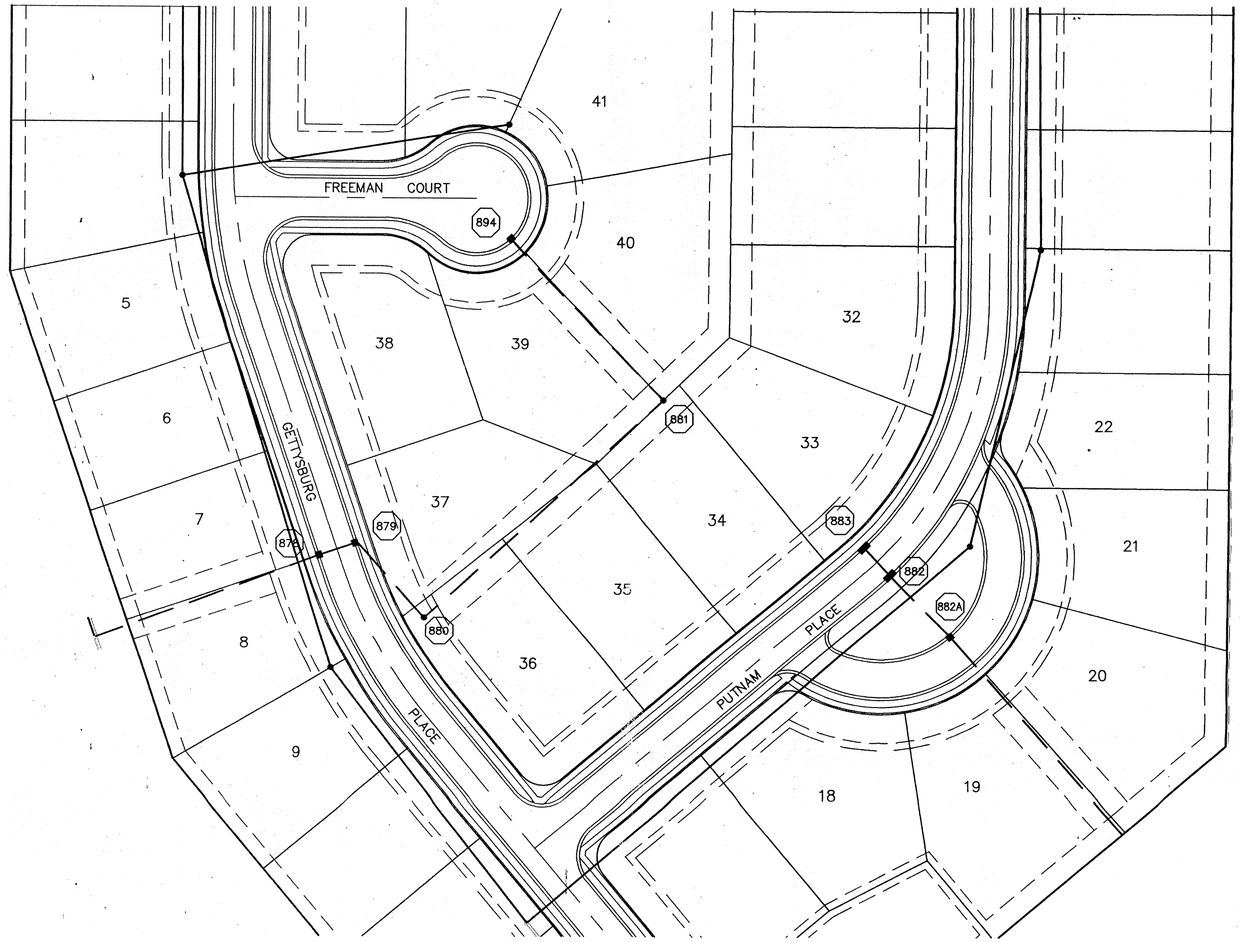

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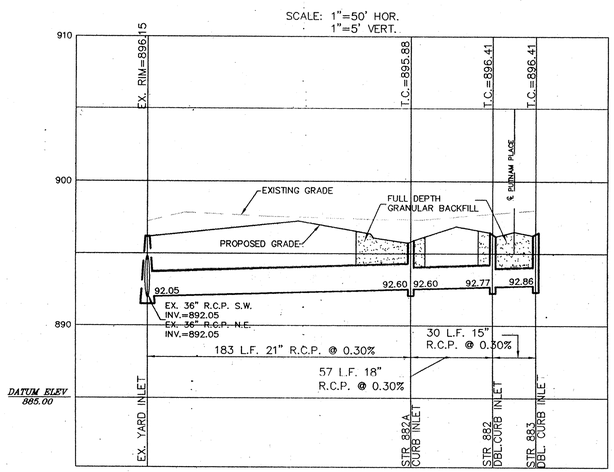

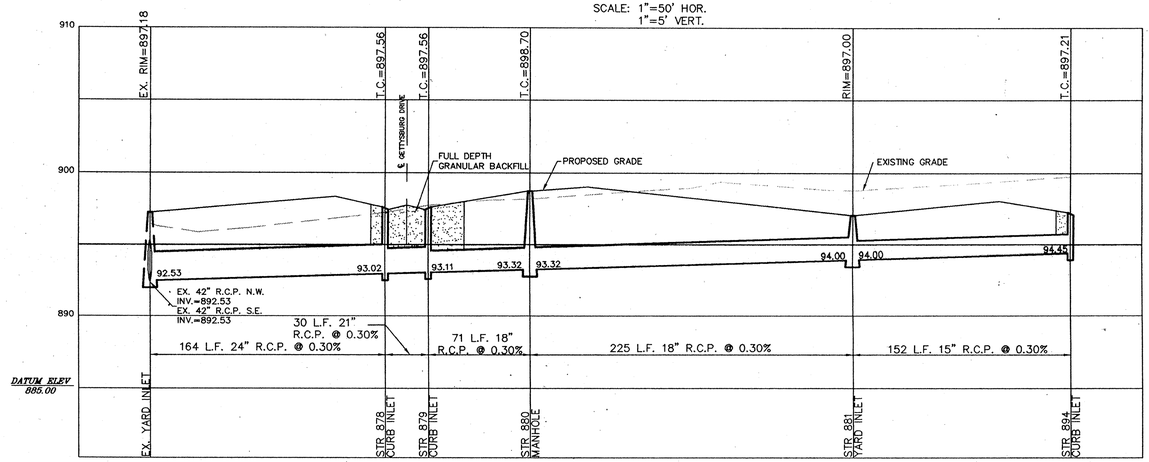

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DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

BY	REVISIONS	MARK	DATE

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SCALE 1"=50'
DATE 3/15/96

CERTIFIED: 3/15/96
David J. Stoeppelwerth

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INDIANAPOLIS INDIANA
STOEPPELWERTH & ASSOCIATES

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

CARMEL INDIANA

SHEET NO. 14 OF 19 SHEETS
JOB NO. 19584

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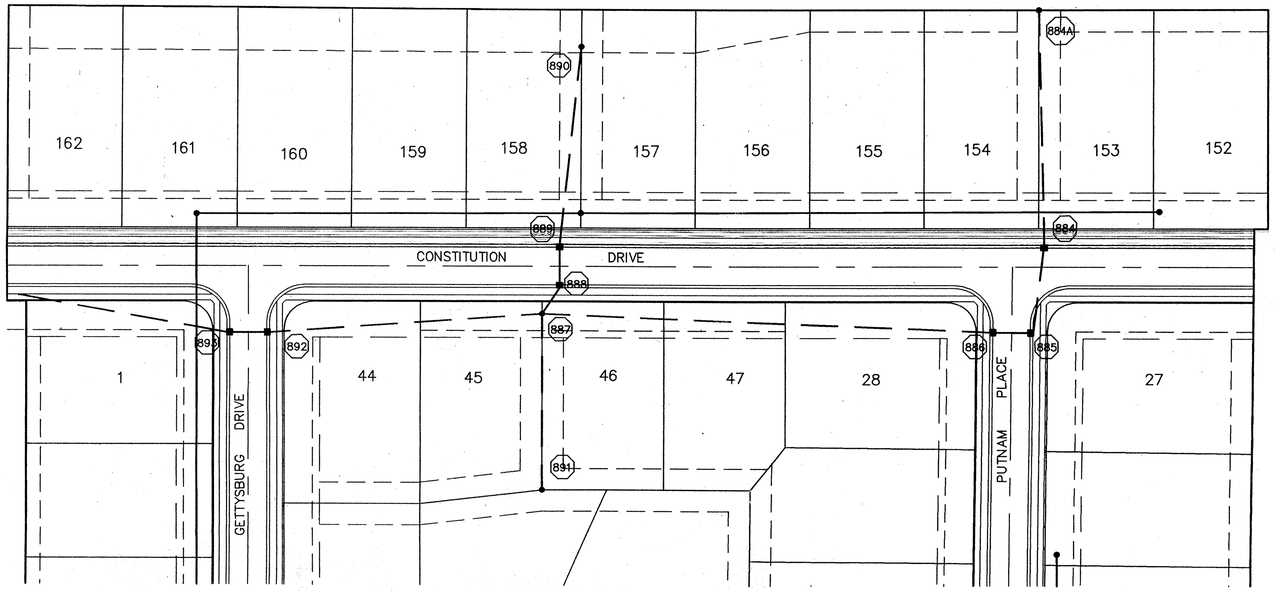

SCALE: 1"= 50'

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

DWN. BY	DATE	MARK	REVISIONS	BY
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CHK. BY				
WAB				
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DATE				
3/15/96				

CERTIFIED: 3/15/96

David J. Stoeppelwerth

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HAMILTON COUNTY INDIANA

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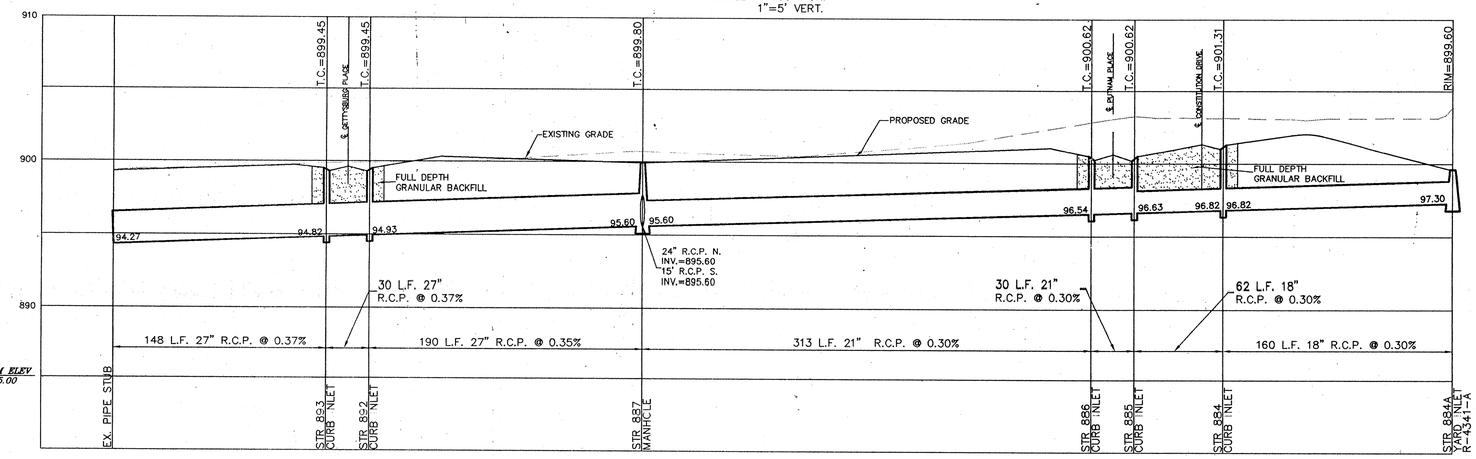
1"=5' VERT.



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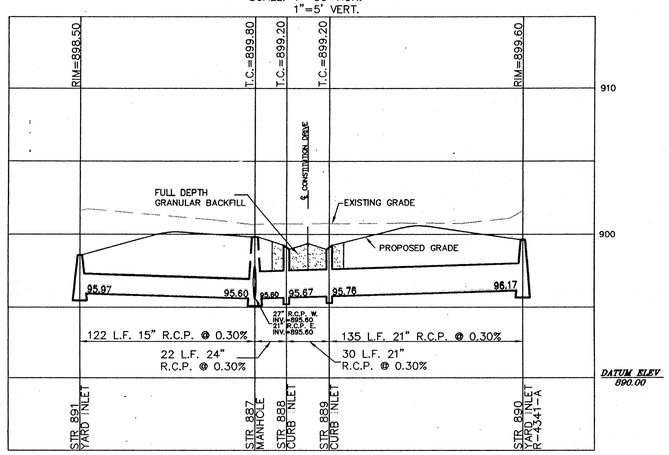

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STORM SEWER PLAN & PROFILES
THE PARK @ WESTON PLACE
SECTION TWO

CARMEL INDIANA

SHEET NO. 15 OF 19 SHEETS

JOB NO. 19584B

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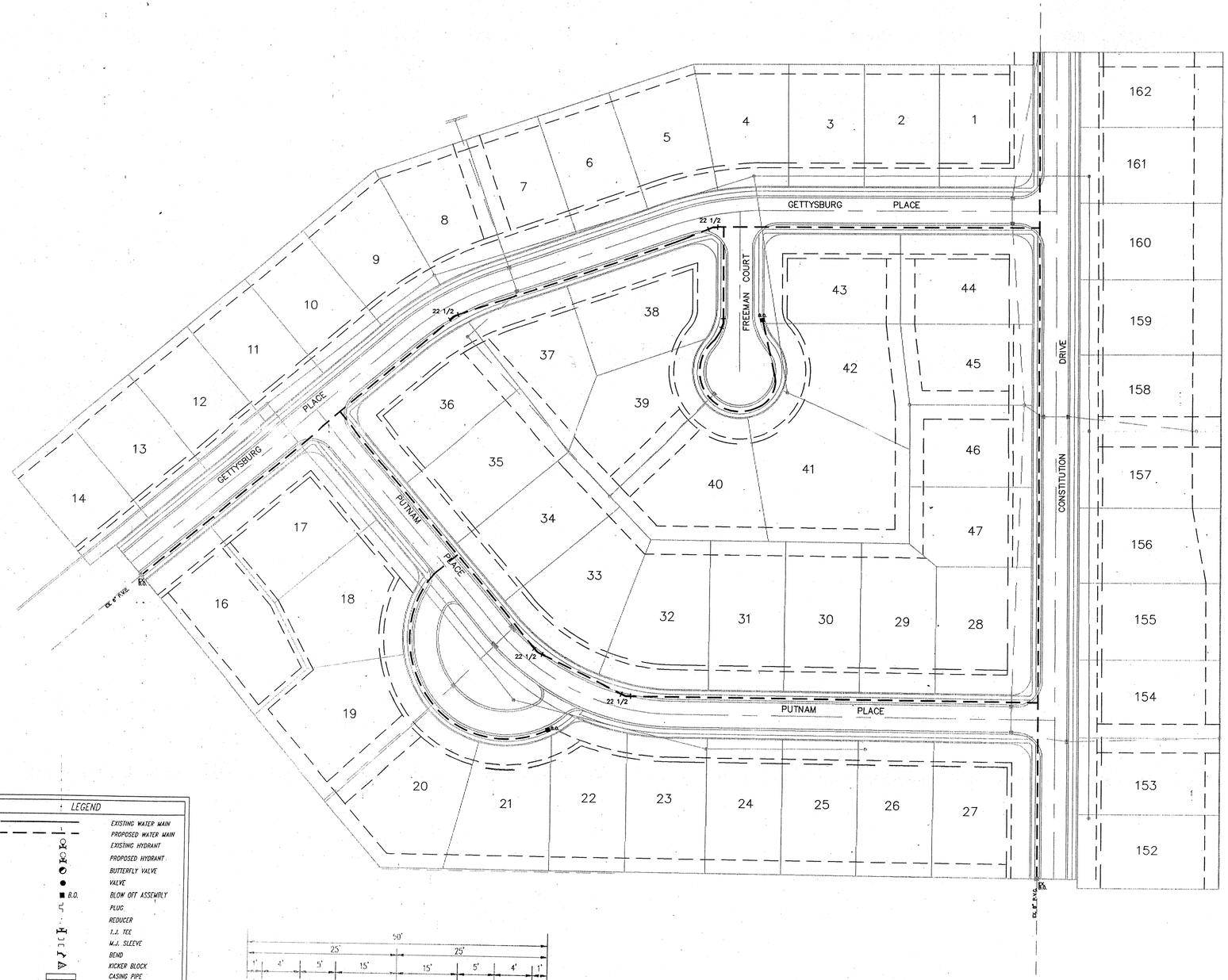
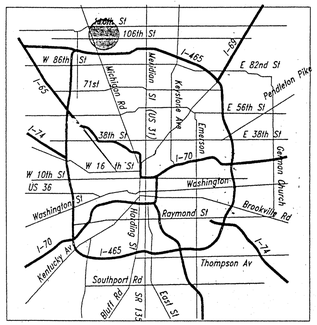
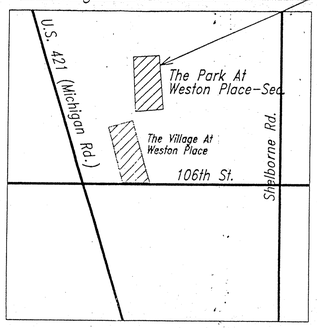


Area Map

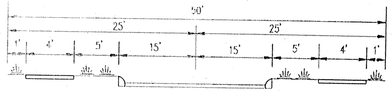


Project Location



LEGEND

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



STREET DETAIL

No Scale

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DATE	MARK	REVISIONS	BY

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DATE 3/15/96

CERTIFIED: 3/15/96

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

WATER DISTRIBUTION PLAN
THE PARK @ WESTON PLACE SECTION TWO

CARMEL INDIANA

FILED
MAR 18 1996
OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET NO. 16 OF 19 SHEETS
JOB NO. 19584B

SANITARY SEWER SPECIFICATIONS

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. Backfill around all structures and all cuts under paved areas with granular material. Trenches opening within 5-feet of pave 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.

8. 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.

9. 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.

10. 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 representative of the Clay Waste District.

11. 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.

12. All mandrel testing shall be observed by a Professional Engineer for certification and a representative of the Clay Waste District.

13. 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.

14. 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.

15. Water and sewer line crossings and separations shall be in accordance with Ten States' Standards.

16. Trench shall be opened sufficiently ahead of pipe laying to reveal obstructions, and shall be property protected and/or barricaded when left unattended.

17. 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.

18. All sewer laterals installed by the mainline Contractor shall be bedded the same as the main line sewer.

19. 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.

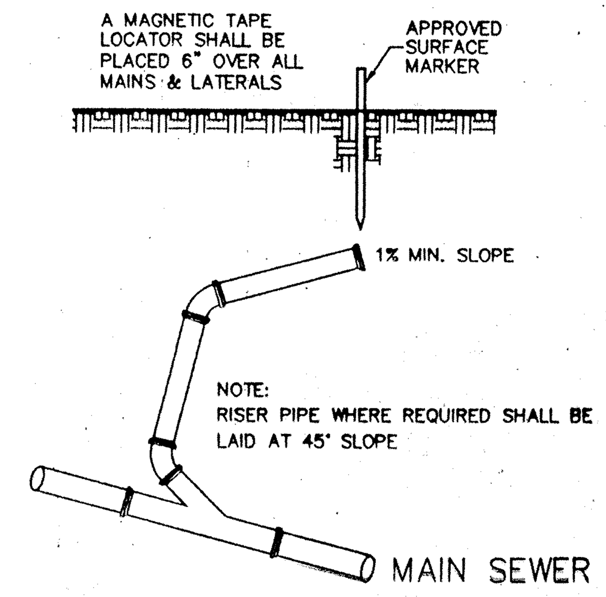
20. Manhole castings shall be stamped "SANITARY SEWER" (Neenah Casting R 1642 or equal) and be self-sealing type. Waterproof castings shall be Neenah R-1916-F1 and stamped "Sanitary Sewer".

21. 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%

22. 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.

23. 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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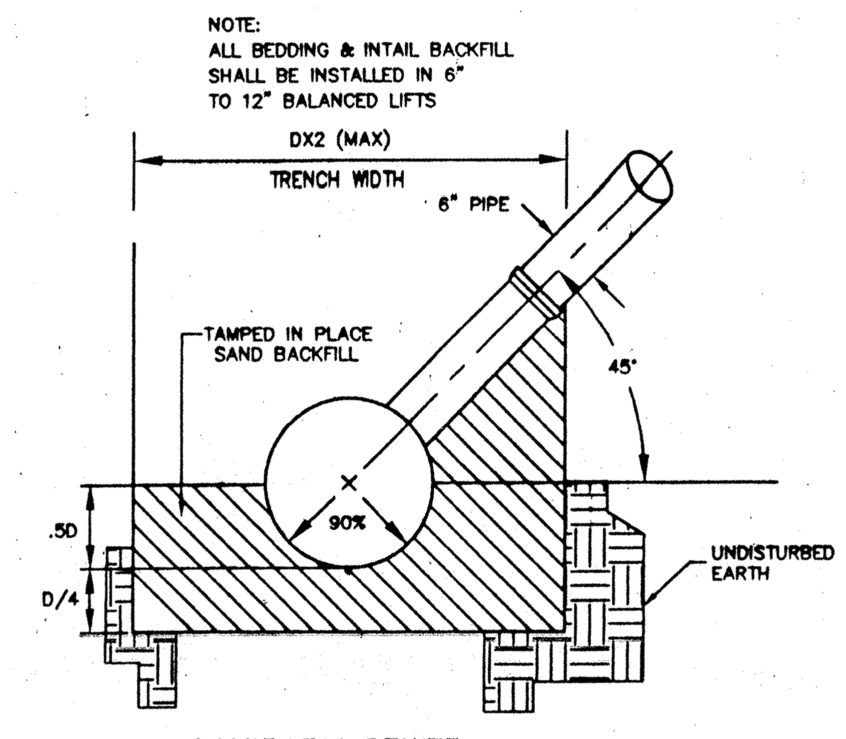
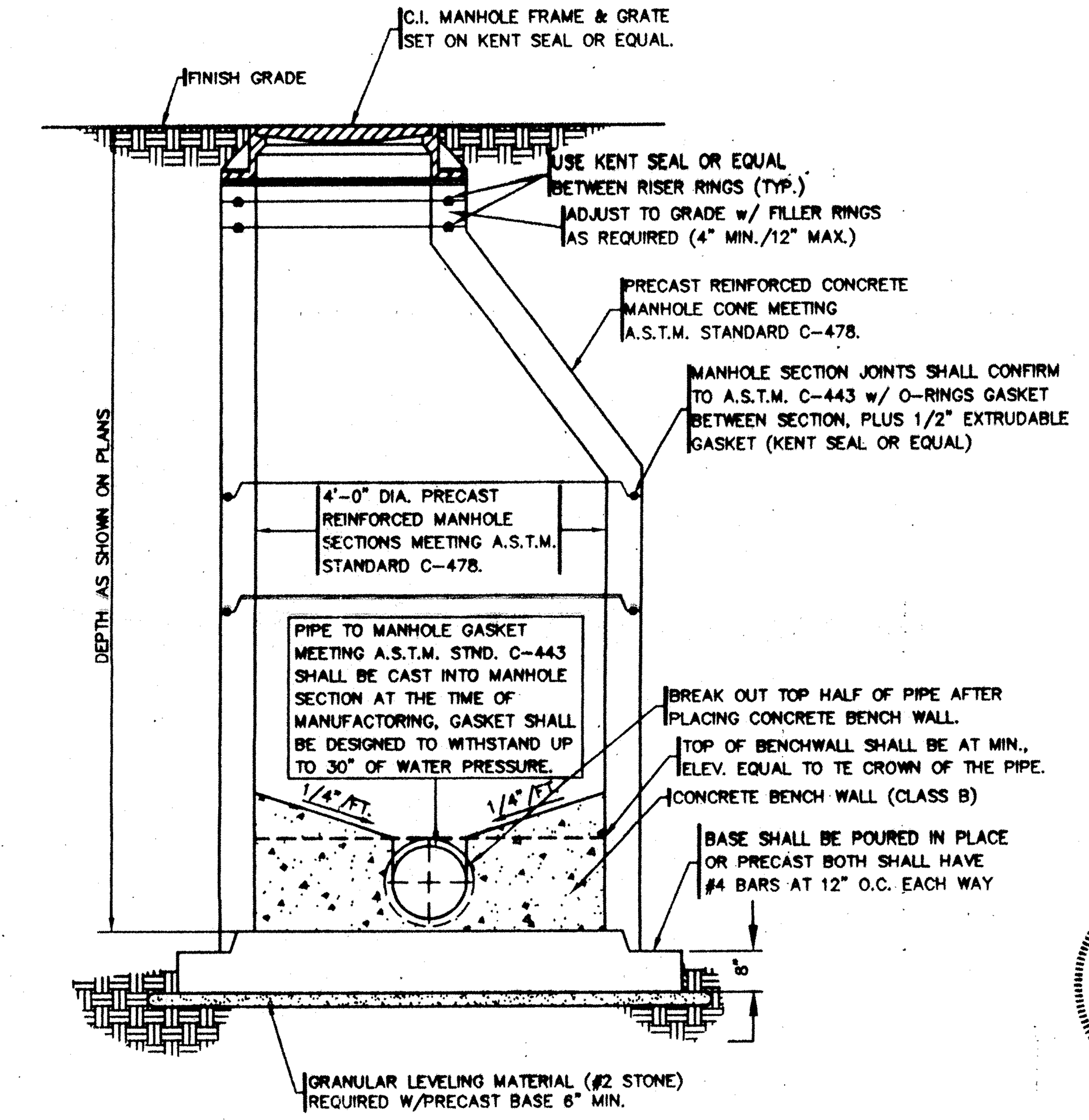
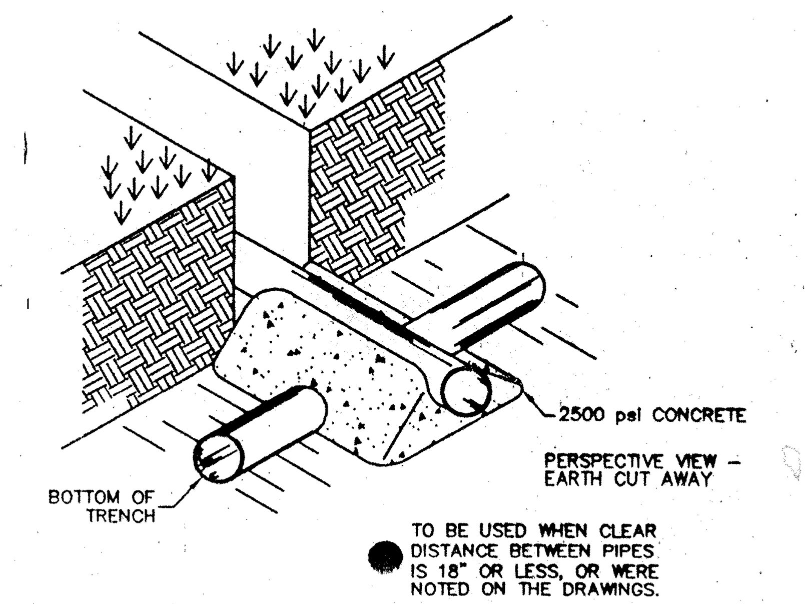


SANITARY SEWER SERVICE CONNECTION
NOT-TO-SCALE

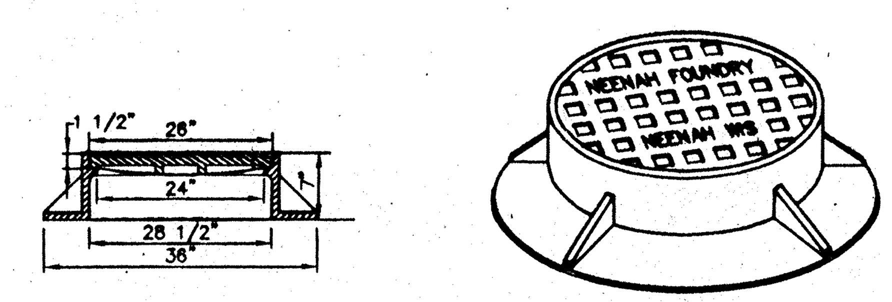
SANITARY SEWER SERVICE CONNECTION
NOT-TO-SCALE



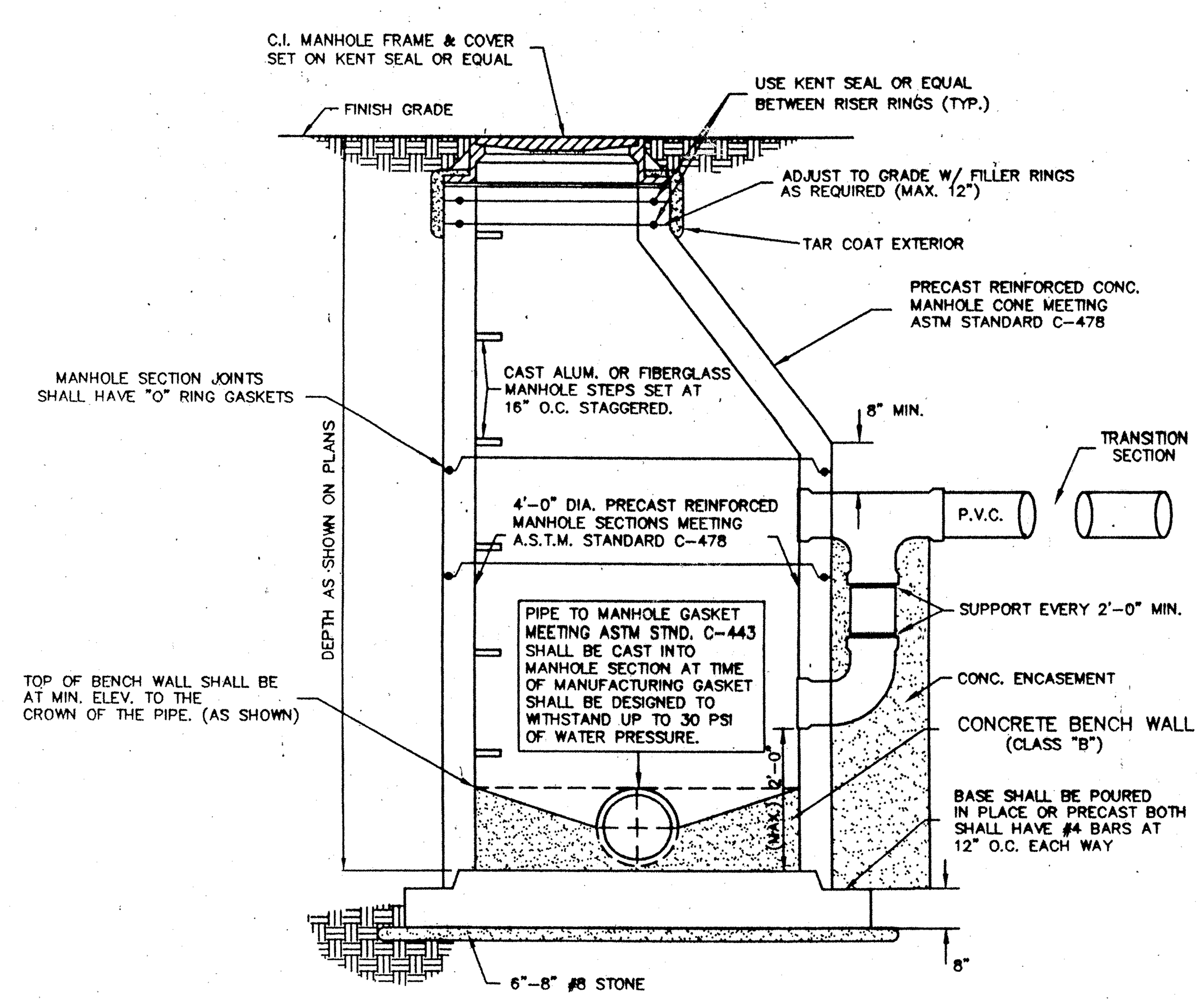
PRECAST REINFORCED CONCRETE MANHOLE FOR SANITARY SEWER
NOT-TO-SCALE



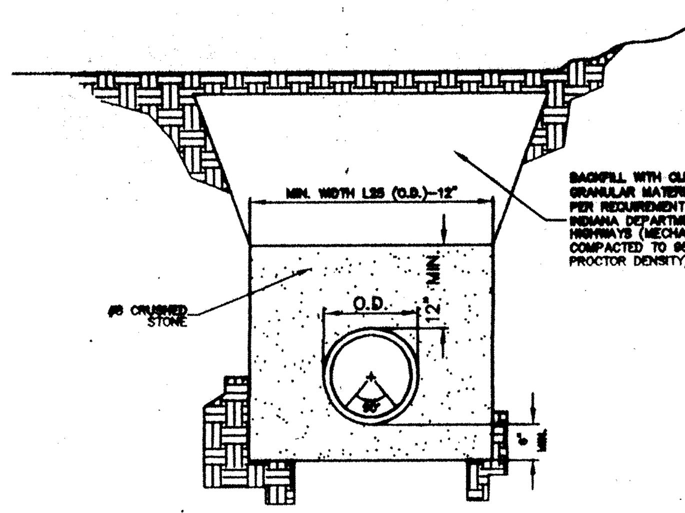
CONCRETE CRADLE
NOT-TO-SCALE



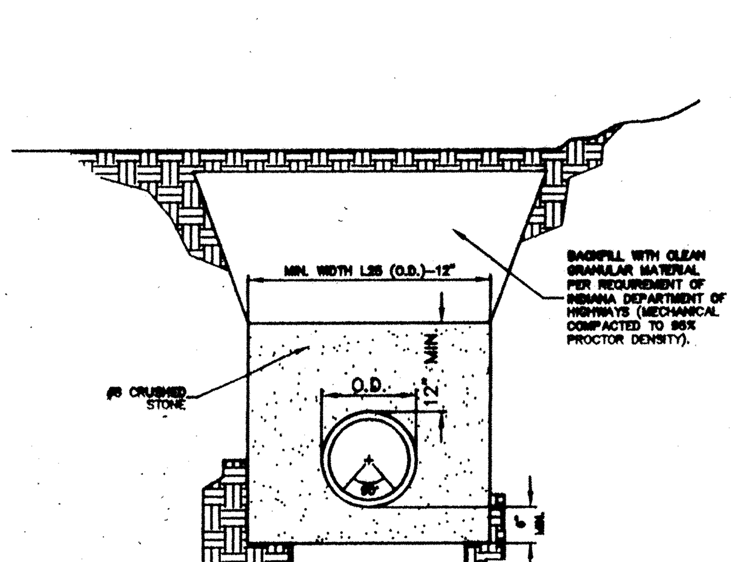
SANITARY MANHOLE CASTING NEENAH R-1642 (OR EQUAL) SELF SEALING WITH CONCEALED PICK HOLES
NOT-TO-SCALE



PRECAST REINFORCED CONC. MANHOLE W/DROP PIPE FOR SANITARY SEWER



BEDDING DETAIL
NOT-TO-SCALE



RIGID PIPE BEDDING DETAIL
(CONCRETE PIPE)
NOT-TO-SCALE

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MAR 18 1996
OFFICE OF HAMILTON COUNTY SURVEYOR

F:\D\G\P\19584V\S2SANDTL Mon Nov 20 12:39:11 1995 TLT

REVISIONS | MARK | DATE | BY

DWN. BY WAB; CK. BY WAB; SCALE NONE; DATE 3/15/96

CERTIFIED: 3/15/96

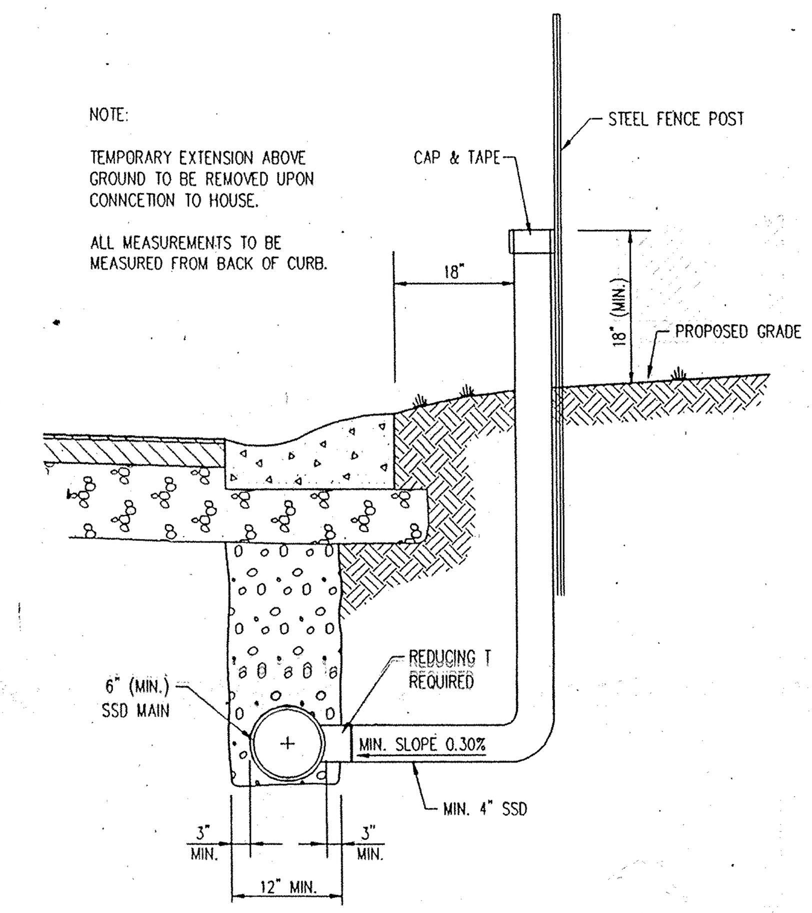
STOEPPELWERTH & ASSOCIATES
CONSULTING ENGINEERS - LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX:(317) 849-5942
INDIANAPOLIS INDIANA

CONSTRUCTION DETAILS
THE PARK @ WESTON PLACE SECTION 2
CARMEL INDIANA

SHEET NO. 17 OF 19 SHEETS
JOB NO. 19584B

STORM SEWER CONSTRUCTION

1. Material Specifications:
   a. Reinforced Concrete Pipe (RCP) shall conform to ASTM C76-70, Class III latest revision, with joints conforming to ASTM C-443 latest revision.
   b. 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.
   c. All manholes and inlets shall be precast concrete conforming to ASTM C-478 latest revision.
   d. Castings shall conform to ASTM-48 latest revision.
2. 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.
3. There shall be a subsurface drain connection provided for each lot.

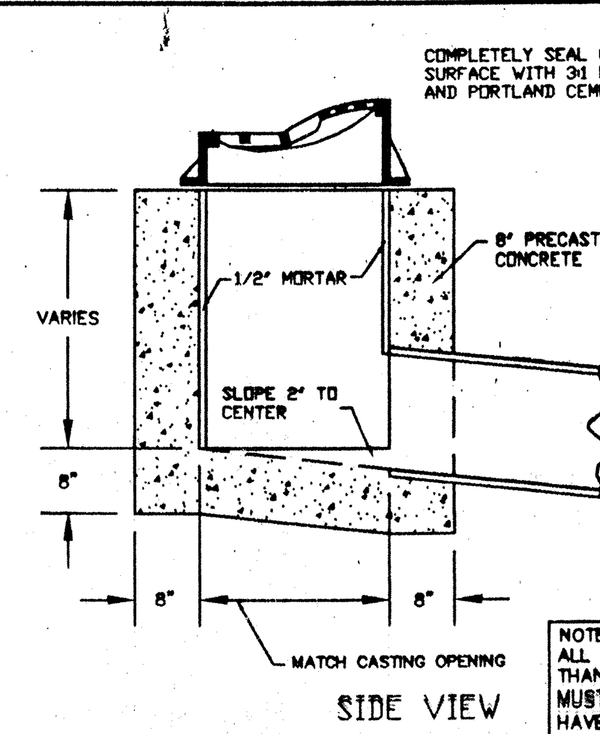


TYPICAL SSD LATERAL TO INDIVIDUAL LOTS ALONG STREETS
NO SCALE

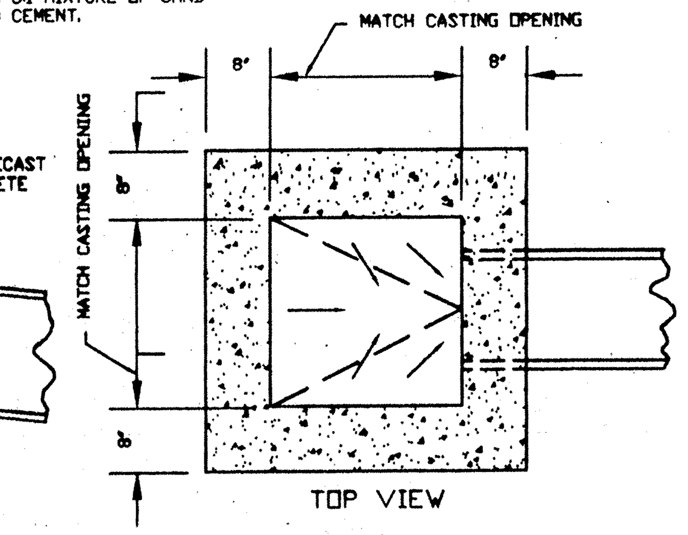
HAMILTON COUNTY SURVEYORS OFFICE	
APPROVED: [signature] HAMILTON COUNTY SURVEYOR 4-5-93 DATE	REVISED: ______ STANDARD PLAN

GENERAL NOTES

1. 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.
2. Construction of private driveways is not included in this project.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. All mandrel testing shall be observed by a Professional Engineer for certification and a representative of the Clay Waste District.
12. 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.
13. 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.
14. Water and sewer line crossings and separations shall be in accordance with Ten States' Standards.



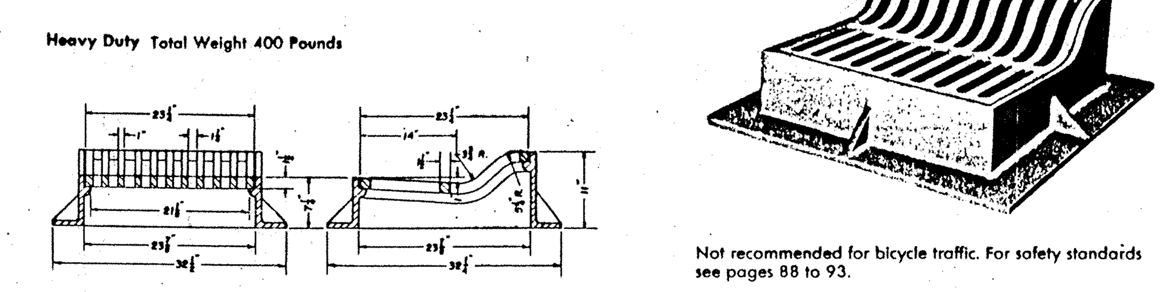
SIDE VIEW



TOP VIEW

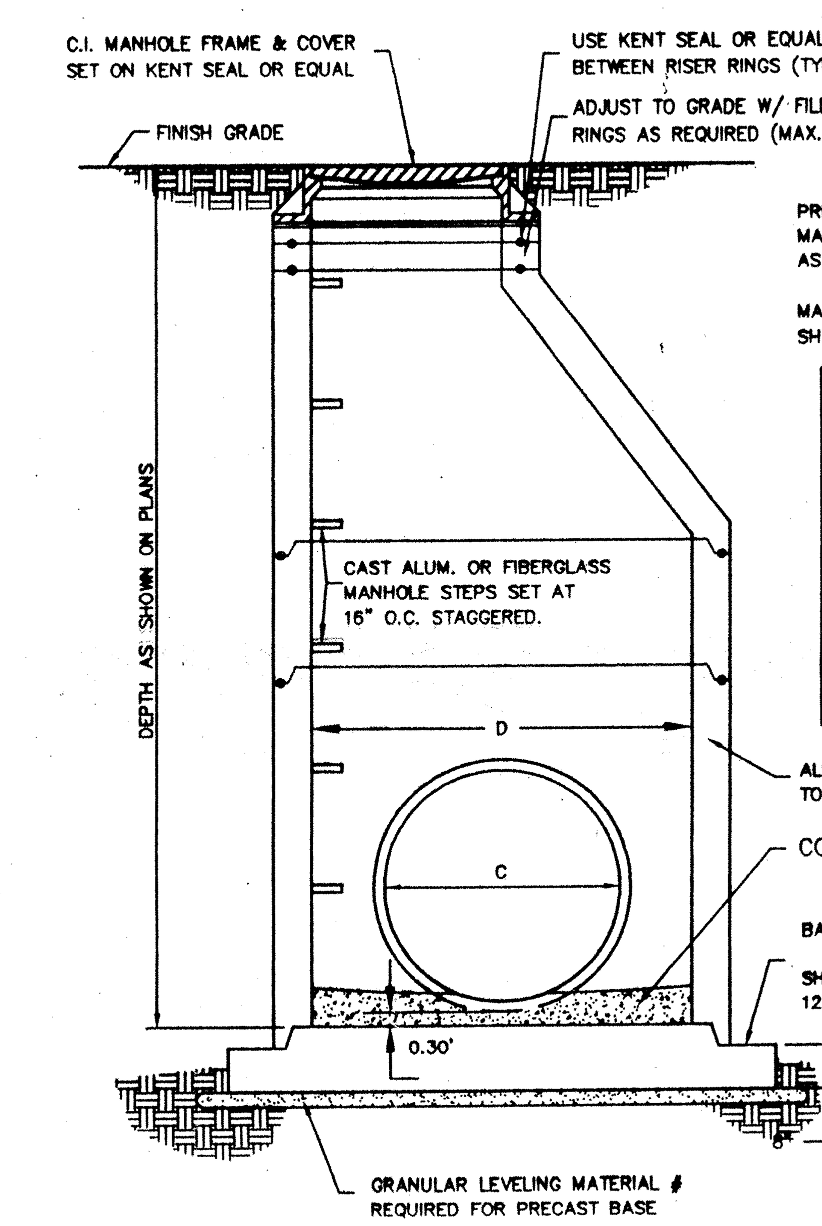
NOTE:
ALL STRUCTURES GREATER THAN THREE FEET IN DEPTH MUST BE ACCESSIBLE AND HAVE STEPS. THE FIRST STEP FROM TOP OF CASTING TO BE THEN 24" MAX., THEN 16" ON-CENTER.

Heavy Duty Total Weight 400 Pounds



Not recommended for bicycle traffic. For safety standards see pages 88 to 93.

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



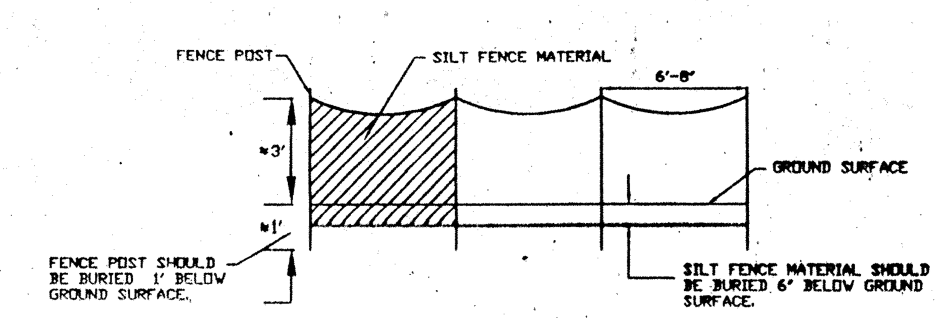
NOTE:
ALL STRUCTURES GREATER THAN THREE FEET IN DEPTH MUST BE ACCESSIBLE AND HAVE STEPS. THE FIRST STEP FROM TOP OF CASTING TO BE THEN 24" MAX., THEN 16" ON-CENTER.

PRECAST REINFORCED CONC. MANHOLE CONE MEETING ASTM STANDARD C-478

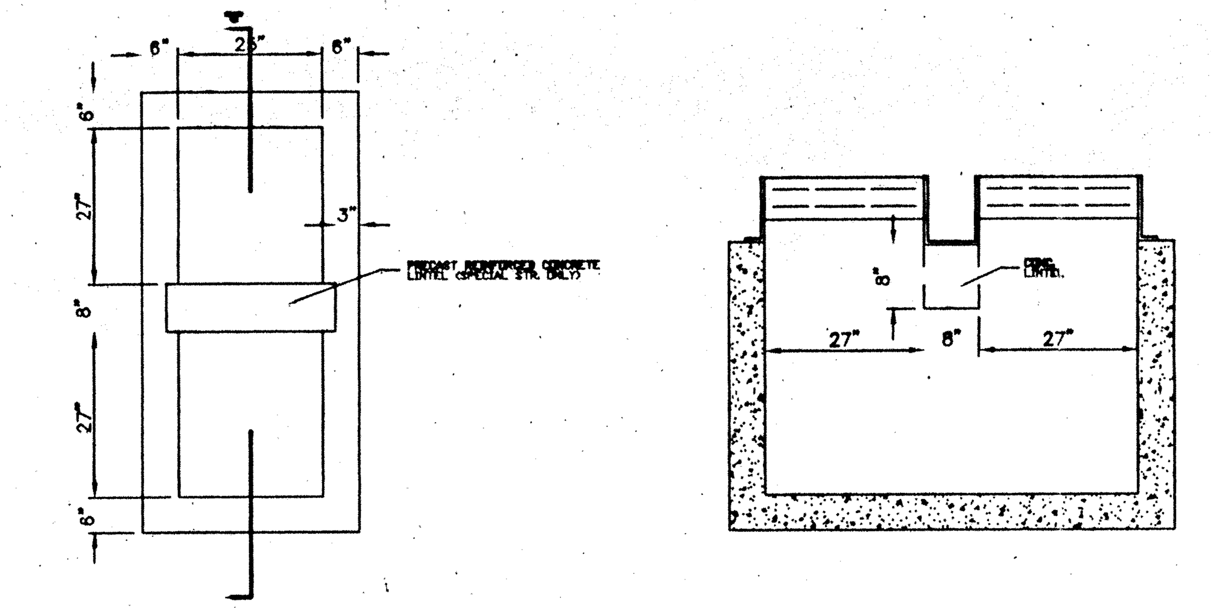
MANHOLE SECTION JOINTS SHALL HAVE "O" RING GASKETS

C	D
21"	4'-0"
24"	4'-0"
27"	4'-0"
30"	4'-4"
36"	5'-0"
42"	5'-4"
48"	6'-0"
54"	6'-6"

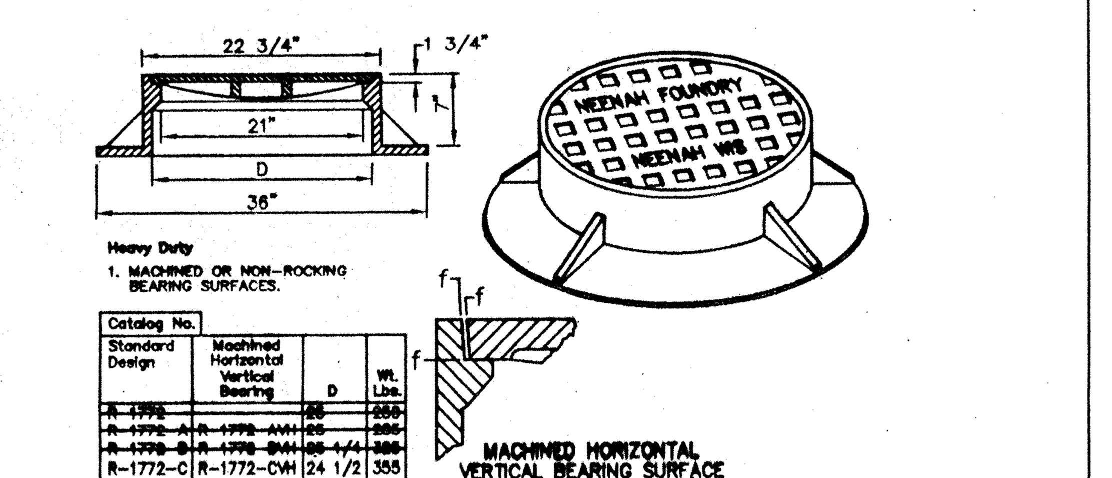
PRECAST REINFORCED CONC. MANHOLE FOR STORM SEWER
NOT-TO-SCALE



SILT FENCE DETAIL
(NO SCALE)



DOUBLE ROLL CURB INLET STRUCTURAL DETAIL
NOT-TO-SCALE

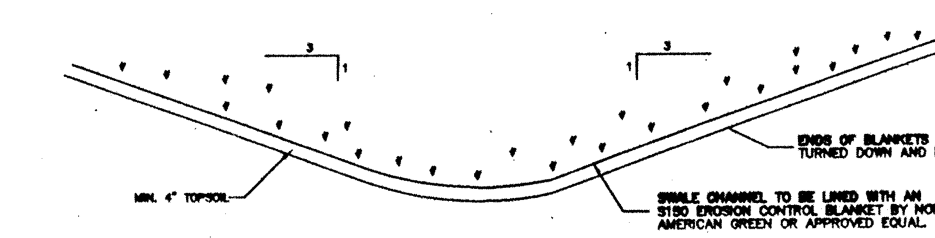


Heavy Duty
1. MACHINED OR NON-ROCKING BEARING SURFACES.

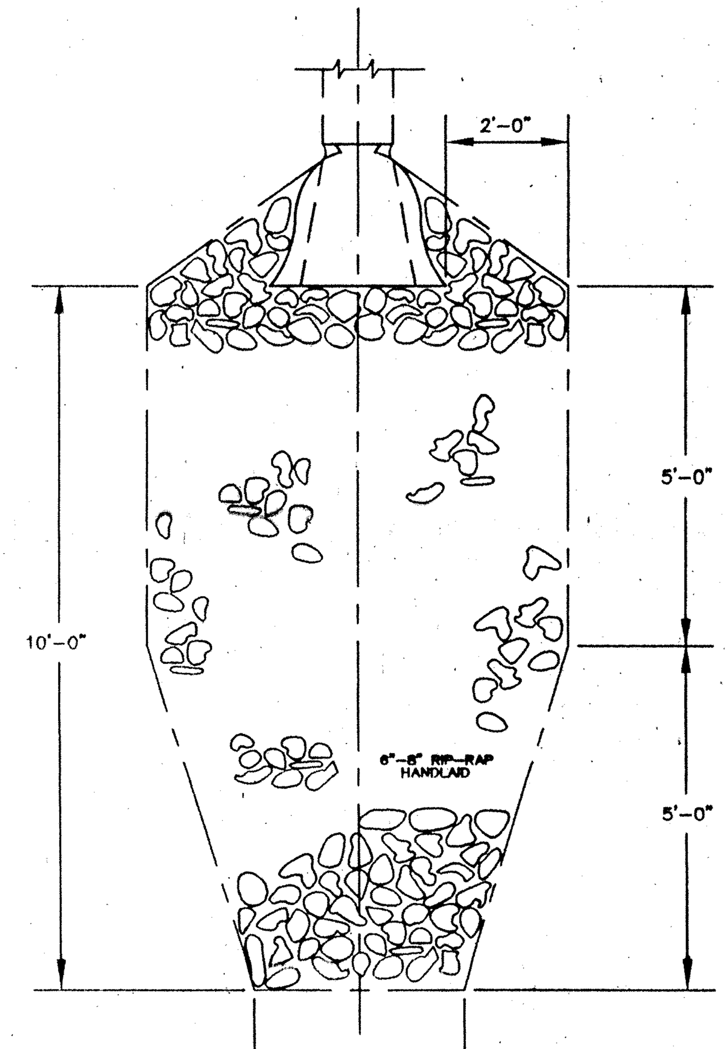
Catalog No. Standard Design	Machined Horizontal Vertical Bearing	D	Wt. Lbs.
R-1772		25	250
R-1772-A	R-1772-AVH	25	265
R-1772-B	R-1772-BVH	25 1/4	355
R-1772-C	R-1772-CVH	24 1/2	355

MACHINED HORIZONTAL VERTICAL BEARING SURFACE

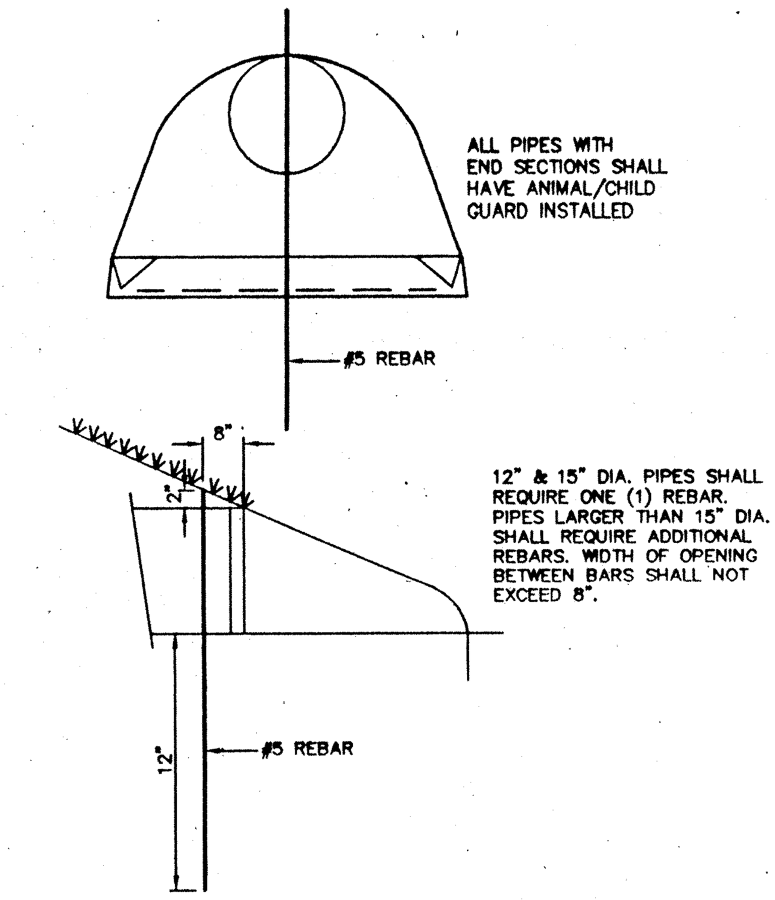
STORM MANHOLE DETAIL R-1772-C
NOT-TO-SCALE



TYPICAL SWALE DETAIL
NO SCALE



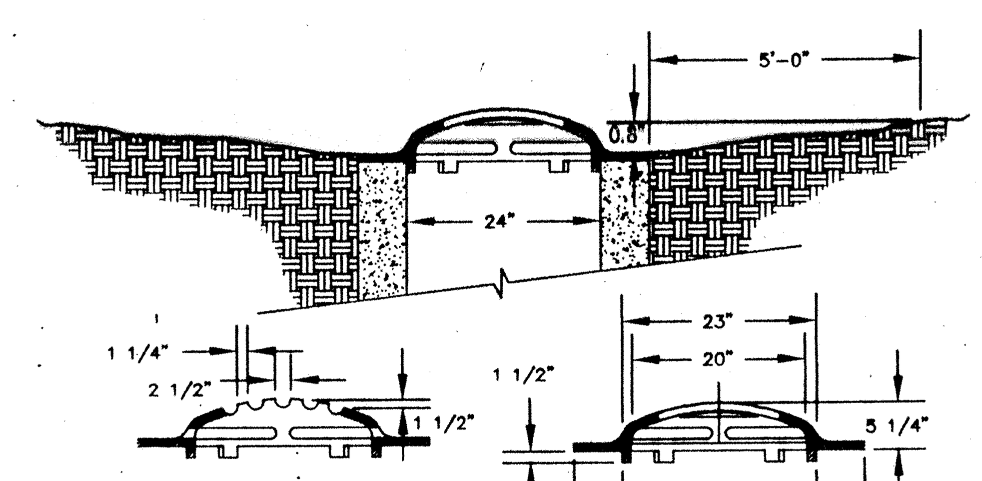
RIP-RAP DETAIL
NOT-TO-SCALE



ALL PIPES WITH END SECTIONS SHALL HAVE ANIMAL/CHILD GUARD INSTALLED

12" & 15" DIA. PIPES SHALL REQUIRE ONE (1) REBAR. PIPES LARGER THAN 15" DIA. SHALL REQUIRE ADDITIONAL REBARS. WIDTH OF OPENING BETWEEN BARS SHALL NOT EXCEED 8".

ANIMAL/CHILD GUARD DETAIL
NOT-TO-SCALE



NOTE:
ALL STRUCTURES GREATER THAN THREE FEET IN DEPTH MUST BE ACCESSIBLE AND HAVE STEPS. THE FIRST STEP FROM TOP OF CASTING TO BE THEN 24" MAX., THEN 16" ON-CENTER.

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

REVISIONS			
DATE	MARK	BY	
DWN. BY WAB	CK. BY WAB	SCALE NONE	DATE 3/15/96

CERTIFIED: 3/15/96 [signature]

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

STOEPPELWERTH
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. 18 OF 19 SHEETS
JOB NO. 19584B

FILED MAR 18 1996 OFFICE OF HAMILTON COUNTY SURVEYOR

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F:\DWG\F\19584V\S2STNDTL Mon Nov 20 12:41:03 1995 TLT

STOP Sign (R1-1)

R1-1
30" x 30"

YIELD Sign (R1-2)

R1-2
30" x 30" x 30"

R1-4
18" x 6"

R1-3
12" x 6"

SPEED LIMIT Signs (R2-1)

R2-1
24" x 30"

NOTES:

1) Signs shall be single faced with Engineering Grade reflectorized sheeting on 0.080" thick aluminum sheet material per INDOT Standard Specifications 912.10.

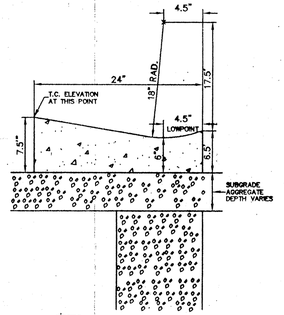
2) Posts shall be 11'-0" long, 2 lb./ft. green painted or galvanized channel sign post per INDOT Standard Specification 909.14.

3) All sign sizes, shapes, colors and material shall meet the Indiana Manual on Uniform Traffic Control Devices.

TYPICAL SUBDIVISION REGULATORY SIGNS

NO SCALE

HAMILTON COUNTY HIGHWAY DEPARTMENT		
		REVISED:
RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER	4-5-93 DATE	STANDARD PLAN
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR	4-5-93 DATE	S-1



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.

VALLEY GUTTER DETAIL

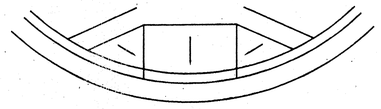
NOT-TO-SCALE

RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER		4-5-93 DATE
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR		4-5-93 DATE

NOTE:

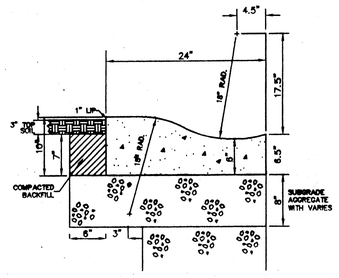
1) THE MAX. SLOPE (——→) OF RAMPS IS 1:12
2) ALL RAMP SURFACES TO HAVE DETECTIBLE WARNING SURFACE THAT COMPLIES WITH A.D.A. REQUIREMENTS.
3) HOME BUILDER'S CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE A.D.A. RAMP WITH TACTILE SURFACE.

(NO RAISED DOMES NOR PAINT)



TYPICAL HANDI-CAPPED RAMP AT CORNER

NOT-TO-SCALE

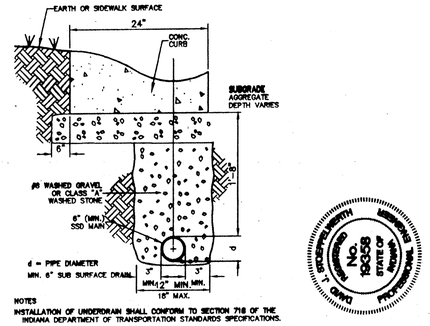


CONCRETE ROLL CURB & GUTTER (TYPE I)

(D.O.T. STANDARD PLAN 12-01)

NOT-TO-SCALE

RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER		7/10/95 DATE
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR		3-17-95 DATE



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 ON SUBGRADE.

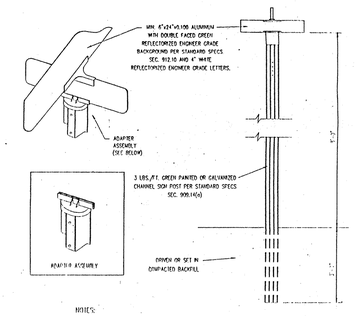
ANY CONTAMINATION OF UNDERDRAIN BACKFILL SHALL BE REMOVED PRIOR TO INSTALLATION OF AGGREGATE BASE.

UNDERDRAINS SHALL NOT BE INSTALLED UNTIL UTILITIES LOCATED BENEATH THE UNDERDRAINS ARE IN PLACE. (I.E. WATERMAINS, STORM SEWERS, SANITARY SEWERS, ETC.)

PIPE UNDERDRAIN

NOT TO SCALE

RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER		4-5-93 DATE
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR		4-5-93 DATE



NOTES:

1) Private Streets shall be so indicated on the left hand side of the sign with dual line, 1 1/2" thick letters on yellow reflectorized background preceding the street name.

2) One sign assembly shall be located at each intersection on the northeast corner when possible.

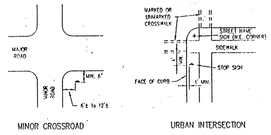
3) Stop signs shall not be installed on the street name sign posts.

SUBDIVISION STREET NAME SIGNS

NO SCALE

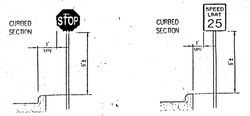
HAMILTON COUNTY HIGHWAY DEPARTMENT		
		REVISED:
RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER	4-5-93 DATE	STANDARD PLAN
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR	4-5-93 DATE	S-2

HAMILTON COUNTY HIGHWAY DEPARTMENT		
		REVISED:
RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER	4-5-93 DATE	STANDARD PLAN
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR	4-5-93 DATE	S-3



MINOR CROSSROAD

URBAN INTERSECTION

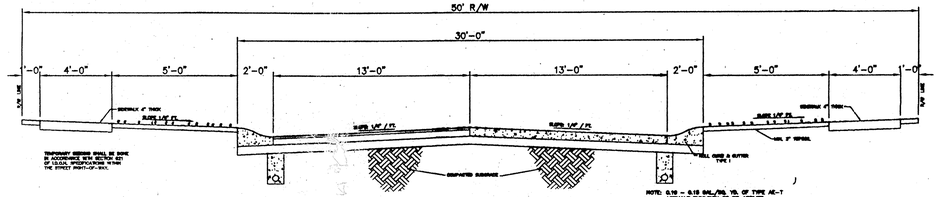


NOTE:

Additional information may be found in the Indiana Manual on Uniform Traffic Control Devices.

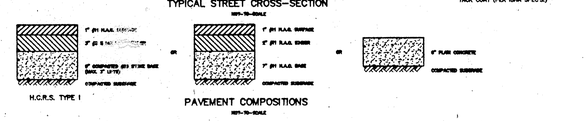
SUBDIVISION SIGN PLACEMENT

NO SCALE



TYPICAL STREET CROSS-SECTION

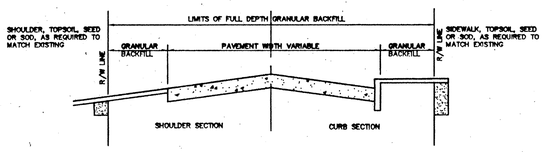
NON-TO-SCALE



H.C.R.S. TYPE I

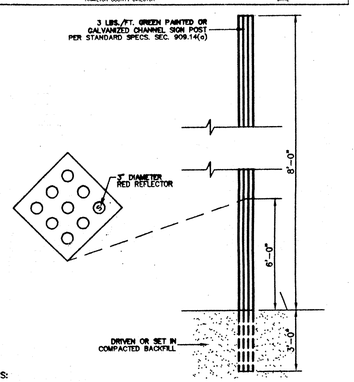
PAVEMENT COMPOSITIONS

NON-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



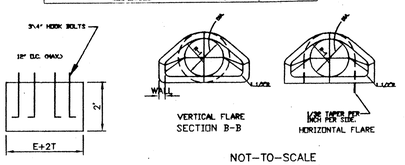
NOTES:

1. NINE (9) RED REFLECTORS ARE TO BE MOUNTED SYMMETRICALLY ON AN 18-INCH DIAMOND 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.

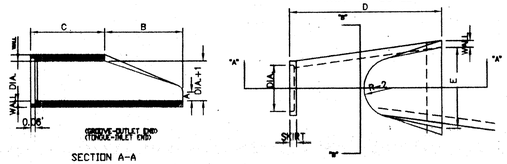
END OF ROAD MARKERS

NOT-TO-SCALE

		REVISED 12-28-93
RECOMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER	7/10/95 DATE	STANDARD PLAN
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR	3-17-95 DATE	S-4



NOT-TO-SCALE



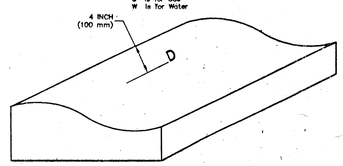
DIA.	WALL	G or T	WT. SEC	A	B	C	D	E	DIA.+1	R-1	R-2	SKIRT
12	2	1	1/2	530	4	24	48	1/8	72	7/8	24	13	10	1/16	9	3	1/2
15	2	1/4	2	740	6	27	46	73	30	19	15	1/2	12	4			
18	2	1/2	2	1/2	990	9	27	46	73	36	19	15	1/2	12	4		
21	2	3/4	2	1/4	1280	9	35	38	73	42	22	18	1/8	13	4		
24	3		2	1/2	1520	9	1/2	43	1/2	30	73	1/2	48	25	18	11/16	14	4	1/2
27	3	1/4	2	1/2	1930	10	1/2	48	25	1/2	73	1/2	54	28	17	3/4	14	1/2	4	1/2
30	3	1/2	3		2190	12		54	19	3/4	73	3/4	60	31	18	5/16	15		5	
33	3	3/4	3	3/8	3150	13	1/2	58	1/2	39	1/4	87	3/4	66	34	23	3/4	17	1/2	5	1/2
36	4		3	1/2	4100	15		63	34	3/4	87	3/4	72	37	24	1/16	20		5	1/2
42	4	1/2	3	3/4	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	3/4	8040	27		65	35		100		90	55	32	2/8	24		6	1/4
60	6		5		8750	30		60	39		99		96	61	36	3/4	24		6	3/4
66	6	1/2	5	1/2	10630	24		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	1/2	14430	24		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

3" TO 4" (75mm TO 100mm) HIGH LETTER TO BE STAMPED AS FOLLOWS:

S is for Storm Sewer
SS is for Sanitary Sewer
D is for Subsurface or Base Drain
C is for Conduit
G is for Gas
W is for Water



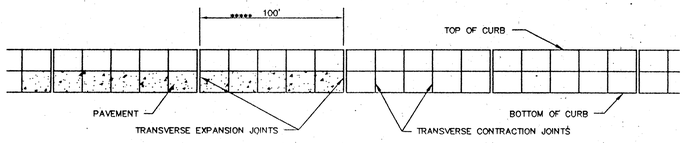
NOTES:

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.

CURB STAMP

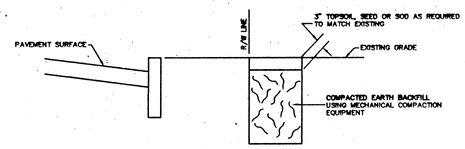
NOT-TO-SCALE

RECOMMENDED: Tim Fehr, HAMILTON COUNTY ENGINEER		2-22-91 DATE
APPROVED: Tom R. Stevens, HAMILTON COUNTY DIRECTOR		2-22-91 DATE



***** WHEN BUILT IN CONJUCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAVEMENT SLABS. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY 1/2" ROUND DEFORMED BARS AT ABOUT 3 FOOT INTERVALS. IF NO CONCRETE PAVEMENT IS BEING BUILT AT THE TIME THE CURB IS CONSTRUCTED, EXPANSION JOINTS SHOULD BE PLACED AT THE ENDS OF ALL RETURNS AND AT INTERVALS NOT TO EXCEED 100 FEET. CONTRACTION JOINTS SHOULD BE INSTALLED AT 20 FOOT SPACING.

CURB JOINT DETAIL



STANDARD FULL DEPTH GRANULAR BACKFILL DETAILS

STANDARD PLAN 92-01 & 92-02

NOT-TO-SCALE

FILED

MAR 18 1996

OFFICE OF HAMILTON COUNTY SURVEYOR

DWN. BY WAB
DC. BY WAB
SCALE NONE
DATE 3/15/96

MARK	DATE	REVISIONS	BY

CERTIFIED: 3/15/96

David J. Stephenson

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

JOB NO. 19584B

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