

Drain: POMOS WEST DRAIN **Drain #:** 254
Improvement/Arm: POMOS WEST - SECTION 2
Operator: JDH **Date:** 3-11-04
Drain Classification: Urban/Rural **Year Installed:** 1993

GIS Drain Input Checklist

- Pull Source Documents for Scanning JDH 3-11
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JDH 3-11
- Digitize & Attribute SSD JDH 3-11
- Digitize & Attribute Open Ditch N/A
- Stamp Plans JDH 3-11
- Sum drain lengths & Validate JDH 3-11
- Enter Improvements into Posse JDH 3-11
- Enter Drain Age into Posse JDH 5-30
- Sum drain length for Watershed in Posse JDH 3-30
- Check Database entries for errors JDH 3-11

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

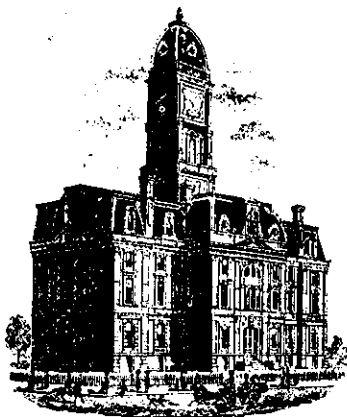
Drain-Improvement: POND WEST DRAIN - POND WEST - SECTION 2

Drain Type:	Size:	Length <i>SURVEYORS REPORT</i>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	6175'	6175'	φ		
RCP	12"	271'	270.99'	- .01'		
	15"	302'	302.1'	+ .01'		
	18"	783'	782.93'	- .07'		
	21"	217'	217.11'	+ .11'		

Sum: 7748' 7748.13' + .13'

Final Report: _____

Comments:
SR AND AB DISAGREE FOR 12", 15", 18", AND 21" LENGTHS



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

August 30, 1993

TO: Hamilton County Drainage Board

RE: Ponds West Drain-Section 2

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Ponds West Drain-Section 2. 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 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 benefitted. The drain will consist of the following:

6" SSD	3861 feet	21" RCP	374 feet
12" RCP	268 feet	24' RCP	63 feet
15" RCP	155 feet		

The total length of the drain will be 5,498 feet.

The portion of the Collins-Osborn or Williams Creek running

through this section should be included under the maintenance of Ponds West until such time the open ditch is set up for maintenance separately.

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 are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows:

REAR OF LOTS 45,47,48,49, 52,53,53,
55,57,58,59,60,61,62

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 a \$30.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$972.00.

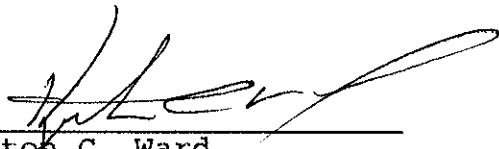
Parcels assessed for this drain may be assessed for the Collins-Osborn or Williams Creek at sometime in the future.

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

I recommend that upon approval of the above proposed drain

that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Ponds West, Section 2 as recorded in the Office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 1993.



Kenton C. Ward
Hamilton County Surveyor

FILED

AUG 25 1993

TELEPHONE 317-343-1111
AUDITOR HAMILTON COUNTY

PONDS WEST SEC.2

N-C National City Bank

INTERNATIONAL DEPARTMENT
101 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46255

TELEX 244038

STANDBY LETTER OF CREDIT

Letter of Credit No: 44226

Date: August 24, 1993

BENEFICIARY

HAMILTON COUNTY COMMISSIONERS
and/or City of Carmel
Hamilton County Courthouse
Noblesville, Indiana 46060

FOR ACCOUNT OF

DART DEVELOPMENT CORP. II
P.O. Box 1423
Carmel, Indiana 46032

We hereby establish our Irrevocable Letter of Credit in your favor, for the account indicated above, for the sum or sums not exceeding an aggregate amount of USD45,752.00 (Forty-Five Thousand Seven Hundred Fifty-Two U.S.Dollars).

Funds are available by your draft(s) at sight drawn on National City Bank, Indiana Indianapolis, Indiana.

Drafts are to be accompanied by:

1. The original of this Letter of Credit No. 44226.
2. Beneficiary's certificate stating that "Dart Development Corp. II has failed to complete storm sewers, sub-surface drains, monuments and markets in Project Ponds West Subdivision, Section 2."

All drafts drawn under this Letter of Credit are to be endorsed hereon and shall bear the clause: "Drawn under National City Bank, Indiana Indianapolis, Indiana Letter of Credit No. (as indicated above)", and must be drawn and presented at this office on or before September 1, 1994.

We hereby agree with you that all drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored upon proper presentation.

Except as otherwise expressly stated herein, this credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision), International Chamber of Commerce; Publication No.400.

Very truly yours,

Daisy B. Elliott
(Authorized signature)

Vicki G. Chalypous
(Authorized signature)

RECEIVED AUG 25 1993

Engineering
Surveying
Landscape Architecture
Digital Mapping

HAMILTON COUNTY DRAINAGE BOARD
CERTIFICATE OF COMPLETION AND COMPLIANCE

Address of premises on which land alteration was accomplished: Southwest corner of 146th Street and Springmill Road, Carmel, Indiana

Project Name: Ponds West Section II

Relative to plans prepared by MSE Corporation on December 10, 1993.

I hereby certify that:

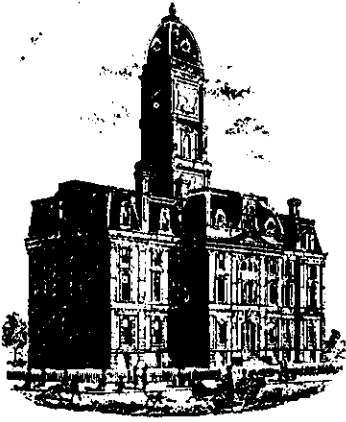
1. I am familiar with drainage requirements applicable to such land alteration (as set forth by the Hamilton County Drainage Board).
2. Land alteration accomplished pursuant to the referenced drainage permit was observed by personnel under my direction, and
3. To the best of my knowledge, information and belief, such land alteration has been performed and completed in conformity with all such drainage requirements.

Certified this 15th day of December, 1993.

MSE CORPORATION



Bruce E. Hagen
Professional Engineer #920299 - Indiana



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

August 28, 1995

To: Hamilton County Drainage Board

RE: Ponds West Drain
Ponds West Sec. 2

Attached are as-builts, certificate of completion & compliance, and other information for Ponds West 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 August 30, 1993. The changes are as follows: STR 21 to 23 consisting of 18" RCP which was shortened from 157' feet to 156' feet. STR 23 to 24 consists of 18" RCP which was lengthened from 443 feet to 447 feet. STR 19 to 20 consisting of 12" RCP was shortened from 152 feet to 151 feet. STR 24 to 25 consists of 21" RCP which was shortened from 191 feet to 188 feet. STR 25 to 26 was shortened from 34 feet to 29 feet. STR 31 to 32 consisting of 15" RCP which was shortened from 155' feet to 153 feet. STR 27 to 28 consists of 12" RCP which was lengthened from 30 feet to 36 feet. STR 36 to 39 was lengthened from 147 feet of 18" RCP to 149 feet. STR 34 to 36 consists of 12" RCP which was shortened from 43 feet to 41 feet. STR 28 to 29 consisted of 149 feet of 21" RCP which was downgraded to a 15" RCP of the same length. The 6" SSD across lots 53, 54, 55 was omitted per inspector's report dated December 8, 1993. The SSD now totals 6175. The total length of the drain due to changes described above is now 7810 feet.

7748

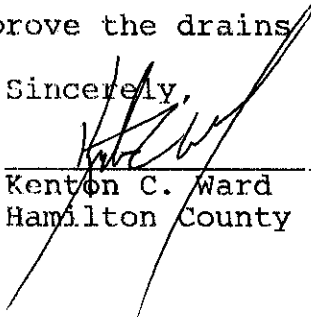
*NOTE-Due to a typing error on the original report the 18" RCP which totaled 777 feet was left off. However it was added in the total length of the drain.

~~Attached also is a non-enforcement for the drain which I recommend that the Board approve at this time.~~ The non-enforcement was approved by the Board at its meeting on November 22, 1993.

The bond or letter of credit from National City Bank, number 44226, dated August 24, 1993, in the amount of \$45,752.00, has been released.

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

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

SLM

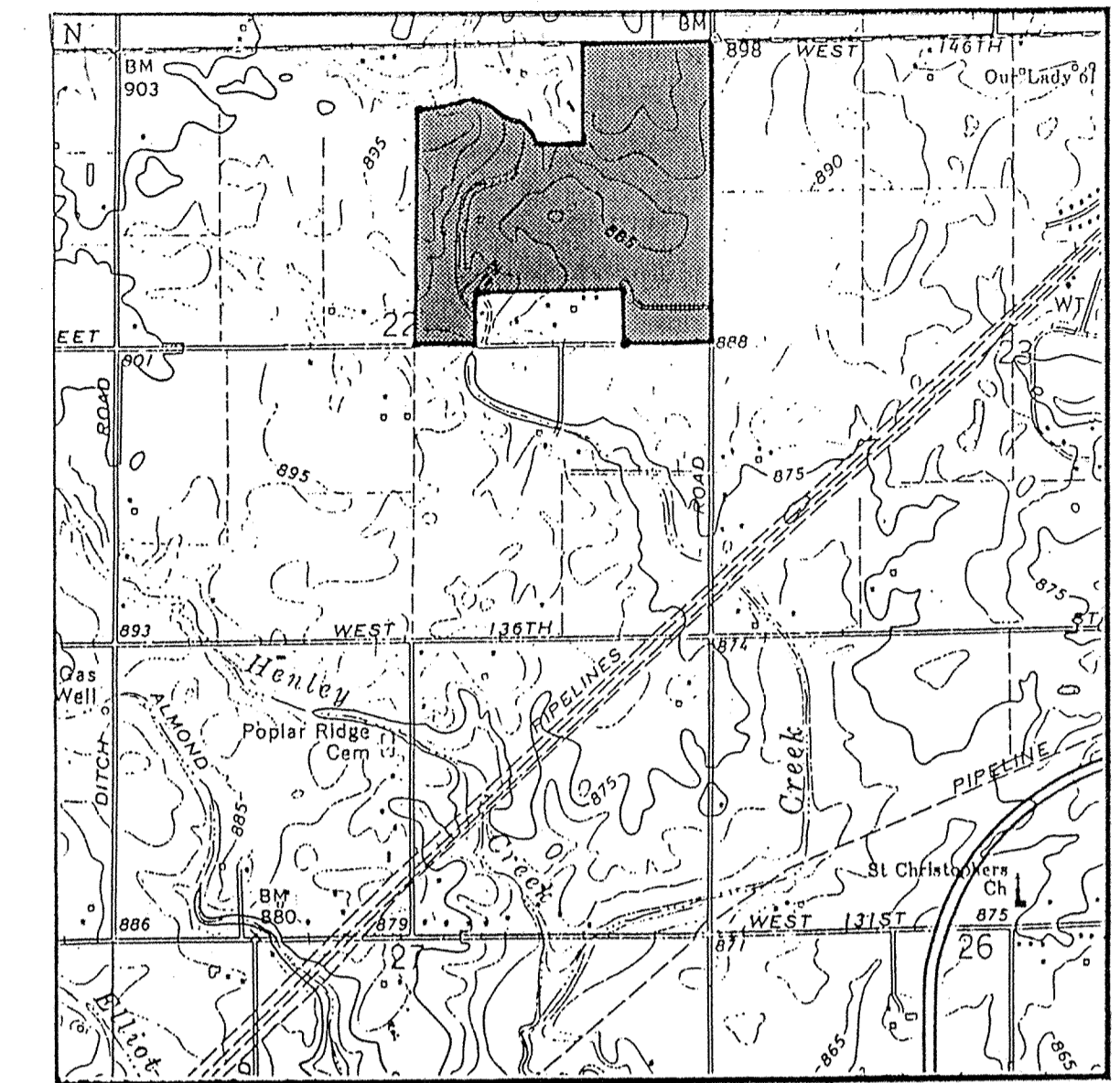
KCW/nw

Land Description

Land being part of the Northeast Quarter of Section 22, Township 18 North, Range 3 East, Hamilton County, Indiana, more particularly described as follows:

Beginning at the Southeast corner of said Northeast Quarter Section; thence South 89°20'11" West on and along the South line of said Quarter Section, a distance of 767.80 feet; thence North 00°04'20" East 475.00 feet; thence South 89°20'11" West parallel with the South line of said Quarter Section a distance of 733.70 feet; thence South 00°04'20" West 31.00 feet; thence South 89°20'11" West on and along the North line, and the prolongation thereof, of land described in a deed to Sarah B. Hein, recorded in Deed Book 329, Page 547, in the Office of the Recorder of Hamilton County, Indiana, a distance of 721.58 feet to the Northwest corner of said Hein's land; thence South 00°05'18" West, on Hein's West line, a distance of 444.00 feet to the South line of aforesaid Northeast Quarter Section; thence South 89°20'11" West on said South line a distance of 412.50 feet to the Southwest corner of said Quarter Section; thence North 00°05'18" East on and along the West line of said Quarter Section a distance of 2132.02 feet to a point 495 feet South of the Northwest corner of said Quarter Section; thence North 89°04'58" East parallel with the North line of said Quarter Section a distance of 412.50 feet; thence North 00°05'18" East 0.74 feet to an iron pipe found at the Southwest corner of land described in a deed to James M. Buck, as recorded in Deed Book 330, Page 304, in said Recorder's Office; thence North 79°49'38" East on and along the South line of said Buck's land a distance of 478.11 feet; thence South 00°55'02" East 53.80 feet; thence South 83°45'01" East 53.37 feet; thence South 41°01'24" East 43.56 feet; thence South 90°00'00" East 60.18 feet; thence South 11°18'35" East 310.67 feet; thence North 85°43'26" East 454.02 feet; thence North 00°48'29" West 795.00 feet to the North line of said Northeast Quarter Section; thence North 89°04'58" East on and along said North line, a distance of 1102.37 feet to the Northeast corner of said Quarter Section; thence South 00°02'16" East on and along the East line of said Quarter Section a distance of 2638.59 feet to the Point of Beginning, containing 123.288 acres, more or less, subject to rights-of-way, restrictions, easements, and legal drains.

CONSTRUCTION PLANS FOR PONDS WEST SECTION II

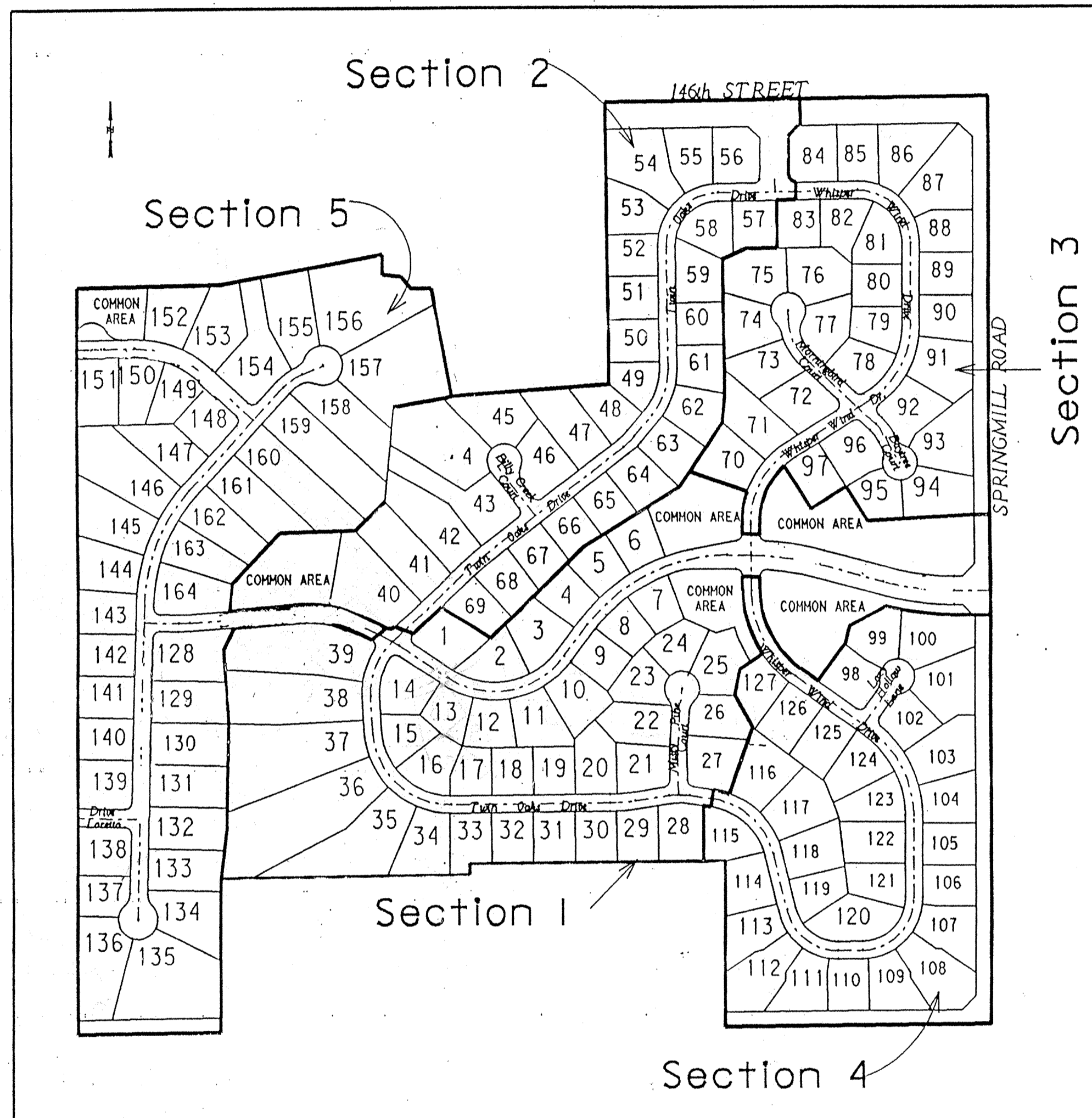


VICINITY MAP
LATERAL LOCATIONS

- Lot 40 120' Northeast of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 41 247' Northeast of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 42 20' Northeast out of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 43 137' Northeast of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 44 20' West out of manhole # 221, 26' of 6" pipe, 6' deep.
- Lot 45 40' Northeast out of manhole # 221, 26' of 6" pipe, 6' deep.
- Lot 46 171' Northeast of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 47 216' Northeast of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 48 85' Northeast of manhole # 216, 26' of 6" pipe, 6' deep.
- Lot 49 27' North of manhole # 212, 26' of 6" pipe, 6' deep.
- Lot 50 156' North of manhole # 212, 26' of 6" pipe, 6' deep.
- Lot 51 73' North of manhole # 211, 26' of 6" pipe, 6' deep.
- Lot 52 177' North of manhole # 211, 26' of 6" pipe, 6' deep.
- Lot 53 283' North of manhole # 211, 26' of 6" pipe, 6' deep.
- Lot 54 18' North out of manhole # 210, 26' of 6" pipe, 6' deep.
- Lot 55 97' East of manhole # 210, 26' of 6" pipe, 6' deep.
- Lot 56 128' East of manhole # 210, 26' of 6" pipe, 6' deep.
- Lot 57 221' East of manhole # 210, 26' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 58 239' East of manhole # 210, 26' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 59 60' North of manhole # 211, 75' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 60 60' North of manhole # 211, 75' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 61 53' North of manhole # 211, 75' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 62 42' North of manhole # 211, 75' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 63 22' Northeast of manhole # 211, 75' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 64 40' Northeast of manhole # 214, 90' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 65 157' Northeast of manhole # 214, 90' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 66 125' Northeast of manhole # 215, 90' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 67 114' Northeast of manhole # 215, 90' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 68 114' Northeast of manhole # 215, 90' of 6" pipe, with a 45 degree bend, 6' of 6" pipe, 6' deep.
- Lot 69 235' Northeast of manhole # 216, 95' of 6" pipe, 6' deep.

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SPECIFICATIONS
3-8B	SITE UTILITY PLANS & GRADING PLANS
9-20	STREET PLAN & PROFILES
21-32	STORM PLAN & PROFILES
33-43	SANITARY PLAN & PROFILES
44-46	CUL-DE-SAC & INTERSECTION DETAILS
47-48	ENTRANCE DETAILS
49-50	EROSION CONTROL PLANS
51-52	DETAILS

SHEET NO.	REVISIONS
33-43	2/22/93 Revise San. Sewer Inverts
51	2/22/93 Revise San. Sewer Bedding Details
3-9, 26-30,	3/12/93 See Sheets
47 48	3/12/93 See Sheets
1, 3-8, 27-47, 49-52	3/28/93 See Sheets
1-52	4/9/93 Change Subd. name & Street Names
3-8, 9B, 10, 14, 15, 24, 25, 27, 28	4/20/93 See Sheets
41, 47	4/20/93 See Sheets
49	4/30/93 See Sheet
4, 13, 21, 33, 38	6/3/93 See Sheets
4, 8A, 21	7/30/93 See Sheets
4, 47	9-14-93 See Sheets

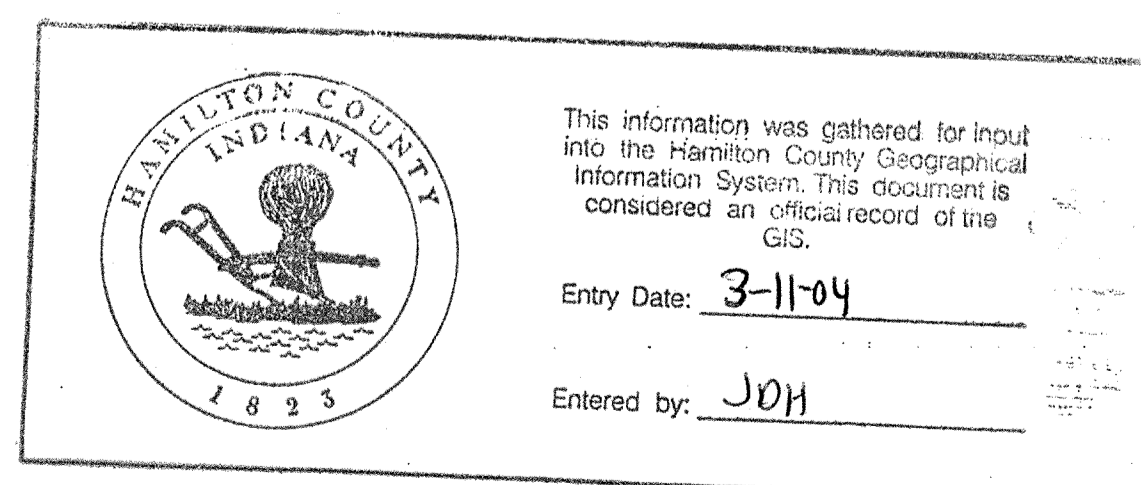


~~Sections 1-4 are to be approved and constructed at this time.~~
~~Section 5 to be approved and constructed at a later date.~~
~~4/1/93~~

NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

ANY ALTERATIONS TO THESE PLANS NOT AUTHORIZED BY MSE ENGINEERING AND NOT IN ACCORDANCE WITH THE PLANS AND RECORDS ON FILE AT MSE ENGINEERING OFFICES SHALL RELIEVE MSE ENGINEERING OF RESPONSIBILITY FOR OVERALL ACCURACY OF PLANS.



PLANS PREPARED FOR
DART DEVELOPMENT CORP II
 14122 SPRINGMILL ROAD
 CARMEL, IN 46032
 (317) 844-4451

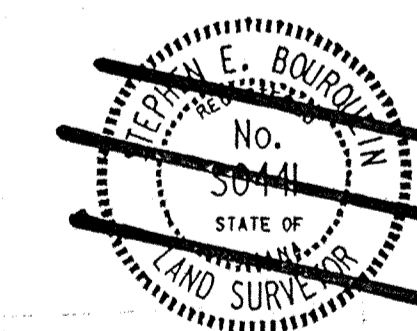
PREPARED BY:
MSE Engineering
 MSE Corporation
 941 North Meridian
 Indianapolis, IN 46204
 317 634-1000
 317 634-3576 FAX

SANITARY AS-BUILTS
STORM AS-BUILTS

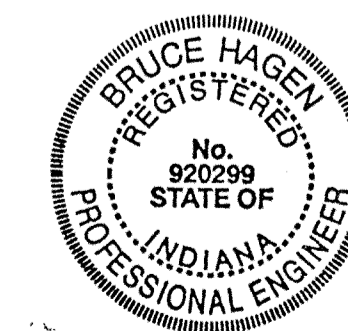
As-built information provided by MSE Corporation, certified this 10TH day of December, 1993.

Bruce Hagen

NOTE: LATERAL LOCATIONS PROVIDED BY HARVEY CONSTRUCTION CO., INC.



CERTIFIED THIS 14th DAY OF April, 1993
Stephen Bourgeois
STEPHEN BOURGEOIS
 Registered Professional Land Surveyor No. 50441 - Indiana



PROJECT DATA
 ACRES : 123.288
 LOTS : 164
 LOTS/ACRE : 1.33

FILED

DEC 14 1993
 OFFICE OF HAMILTON COUNTY SURVEYOR

JOB No. 114-0522
 SHEET 1 OF 52 10 OF 12

SITE WORK GENERAL NOTES AND SPECIFICATIONS

I. GENERAL CONDITIONS
A. The Contractor shall be responsible for obtaining or verifying that all permits and approvals are obtained from the respective city, county and state agencies prior to starting construction.
B. It shall be the Contractor's responsibility to determine the exact location of all existing utilities in the vicinity of the construction area prior to starting construction.

VI. SANITARY SEWER CONSTRUCTION

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 2422. PVC pipe shall have grooved bell and gasket. The pipe shall be made of PVC plastic having a cell classification of 12454B.

VII. EROSION PROTECTION DURING CONSTRUCTION

A. The Contractor shall provide adequate erosion protection measures during construction.
1. Rip-rap at locations designated on the plans.
2. Swales draining the site shall be mulch seeded or sodded and Contractor shall be responsible for establishing grass cover.

XII. CONCRETE CURB AND WALKS

A. See Detail Sheet for type and details. Curbs and walks within existing or proposed right-of-way shall be constructed in accordance with Hamilton County specifications.
B. Concrete shall be ready mixed Portland cement conforming to A.S.T.M. C-150. Aggregate shall conform to A.S.T.M. C-33. Compressive strength of concrete at 28 days shall be 4000 p.s.i.

STRUCTURE DATA TABLE SANITARY SEWER

Table with 3 columns: Structure Number, Structure Type, and Casting. Contains entries for Manhole Type 'C' and 'B'.

STRUCTURE DATA TABLE STORM SEWER

Table with 3 columns: Structure Number, Structure Type, and Casting. Contains numerous entries for Manhole Type 'A', 'B', and 'C'.

IX. UTILITIES

A. Water Line
1. See Sanitary Sewers Notes for vertical and horizontal separations (Note VI-1 and 2).
2. All water lines shall be in accordance with the Standards and Specifications of the Indiana State Board of Health and the Hamilton Western Utilities.

XIII. FINISH GRADING AND SEEDING

(Developer shall designate location if required.)
A. Topsoil or approved fill shall be spread over the rough grade to a depth sufficient to insure finish grades are met after rolling and settlement. The minimum thickness of the topsoil shall not be less than 4".

XIV. LIME MODIFIED SOIL

(Developer shall designate location if required.)
A. The use of Lime Modification shall be used to improve the upper 12" of subgrade that does not conform to Section 207 of the 1988 I.N.D.O.T. Specifications.

X. GRANULAR BACKFILL

Shall be in accordance with I.N.D.O.T. Standard Specifications.

XI. PAVEMENT CONSTRUCTION

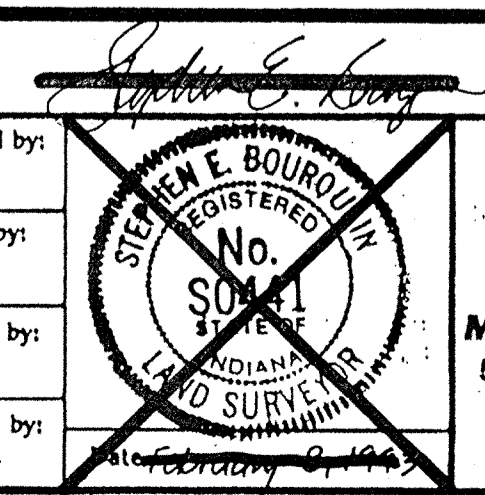
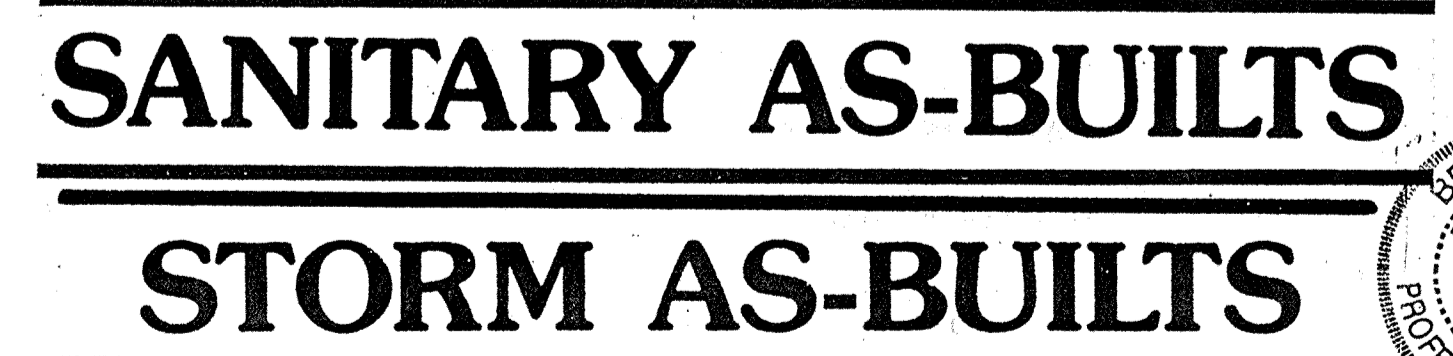
A. All pavement construction shall be in accordance with the plans and specifications and conform to the minimum standards of Hamilton County.
B. Subgrade shall be prepared in compliance with Section 207.02 of the I.N.D.O.T. standard specifications.

XVI. REMOVAL OF PAVEMENT, SIDEWALKS, CURBS, ETC.

A. Pavement removal shall consist of the removal and satisfactory disposal of bituminous pavement or the total of any combination of base, binder and surface course of any pavement on a rigid base (including the base).

XVII. SEALING CRACKS AND JOINTS IN BITUMINOUS PAVEMENT

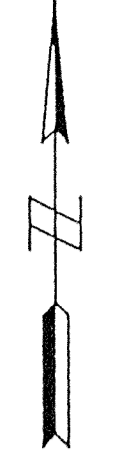
A. Reflection cracks and joints, both longitudinal and transverse, as well as checked, cracked and alligator areas shall be sealed using from 0.10 to 0.15 gallon per square yard of AE-90 or AE-150 bituminous material.



Mid States Engineering, Inc. 601 Congressional Blvd., Suite 110 Carmel, IN 46032 317-843-6080

Form with fields: Title (FILED), Date (DEC 1993), and Job No. (114-0522).

Table with 2 columns: Revisions and Dates, and Designer/Checker/Approver names.



Flood Protection Grades
The elevation of the lowest point around the perimeter of a building at which flood water may enter the building is to be no lower than the following:

Lot	Flood Protection Grade
36	883.2
37	883.5
38	883.8
39	884.1
40	886.0
41	886.2
42	886.4
43	886.5
44	886.8
45	886.8
128	884.1
129	883.8
130	883.5
131	883.2
132	883.0
133	882.8
134	882.6
135	883.5
136	883.2
153	889.0
154	888.9
155	888.8
156	888.6
157	887.8
158	887.0
159	886.5
160	886.0
161	885.9
162	885.7
163	885.5
164	885.5

LEGEND

EXISTING
PROPOSED

STORM SEWER
SANTARY SEWER

MANHOLE
INLET
END SECTION
STORM STR. NO.
SANTARY STR. NO.

FLOW ARROW
CONTOUR
890.6 SPOT ELEVATION
MATCH EXISTING GRADE



SANITARY AS-BUILTS

STORM AS-BUILTS

Revisions and Dates	Designed by:
3-12-93 Relocate Str 8 & 9, Rev Line A Sta II-14	BEH
3-28-93 Delete Str 80, add pipe run III-12	Dwn
3-28-93 Add 20 Lft 8" CMP to SSD outfalls	DRS
4-09-93 Changed Street Names	Checked by:
4-20-93 Relocate Str III & II	BEH
4-20-93 Add SSD Rise at SW Corner Lot 49	Approved by:
	SEB

MSE Engineering
MSE Corporation
501 Congressional Boulevard
Suite 110
Carmel, IN 46032
317 843-5080
317 843-5089 FAX

Titles
SITE UTILITY PLAN & GRADING PLAN
SECTION 2 **30F12**

Scale: 1" = 50'
Job No: 114-0522
Sheet No: 1 of 5

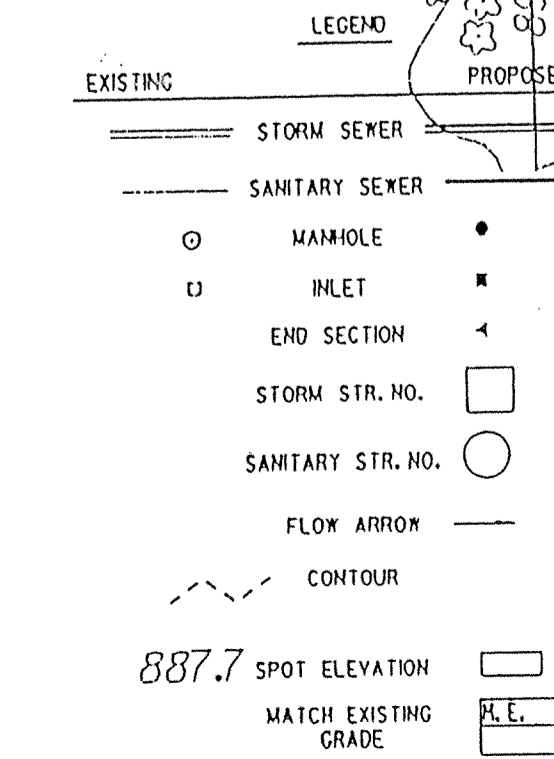
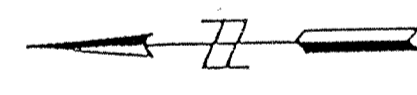
AG-SFI ZONE

899.7

899.7

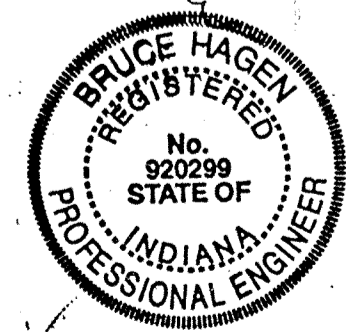
146th STREET

900



GENERAL NOTES:

- Curb returns at all roadway intersections to have a radius of 25' measured to the back of curb unless otherwise noted.
- See Detail Sheet for roadway cross section and pavement section.
- For intersection and cut-de-sac details, see sheets 44-48.
- See detail sheet(s) for typical construction details.
- All dimensions are to back of curb, unless otherwise noted.
- Ends of all curbs to be chamfered.
- Roadway shall be constructed with continuous 6" perforated underdrain as per D.O.T. specifications. (To be placed on both sides of roadway.)
- Structures along curb line are stationed to the middle of the structure and offset to the back of curb; all other structures are stationed and offset to the middle of the structure.
- All lots are to be served by a minimum of 6" sanitary lateral. Laterals shall be installed at a minimum slope of 0.61%. Laterals shall extend a minimum of 3' beyond the easement line.
- All points of connection of proposed sanitary and storm sewers to existing systems must be verified from a known benchmark vertically and horizontally before start of construction. Any conflict with the plans must be reported immediately.
- All known utility locations shown are approximate. It is the contractor's responsibility to contact all affected utilities and the local utilities protection service prior to excavation.
- Grades have been established to maintain tree preservation. Field adjustments may be necessary to accommodate developmental desires.
- Grades in wooded areas are to be used as a guide only. Elevations shown within proposed building areas are minimum finish floor elevations. Houses and grades in wooded areas shall be custom designed, constructed, and graded according to the lot. However, drainage patterns should be consistent with the plan shown hereon.
- M.E. indicates existing spot elevation; contractor shall match existing grade at that point.
- Where M.E. (match existing) is indicated on the construction plans, field observations should be made to assure positive drainage is assured.
- Excess dirt to be stockpiled in areas as designated by the developer.
- Check benchmark with existing grades and existing topography before beginning construction. Any discrepancies must be reported to the engineer immediately.



SANITARY AS-BUILTS

STORM AS-BUILTS

PONDS WEST

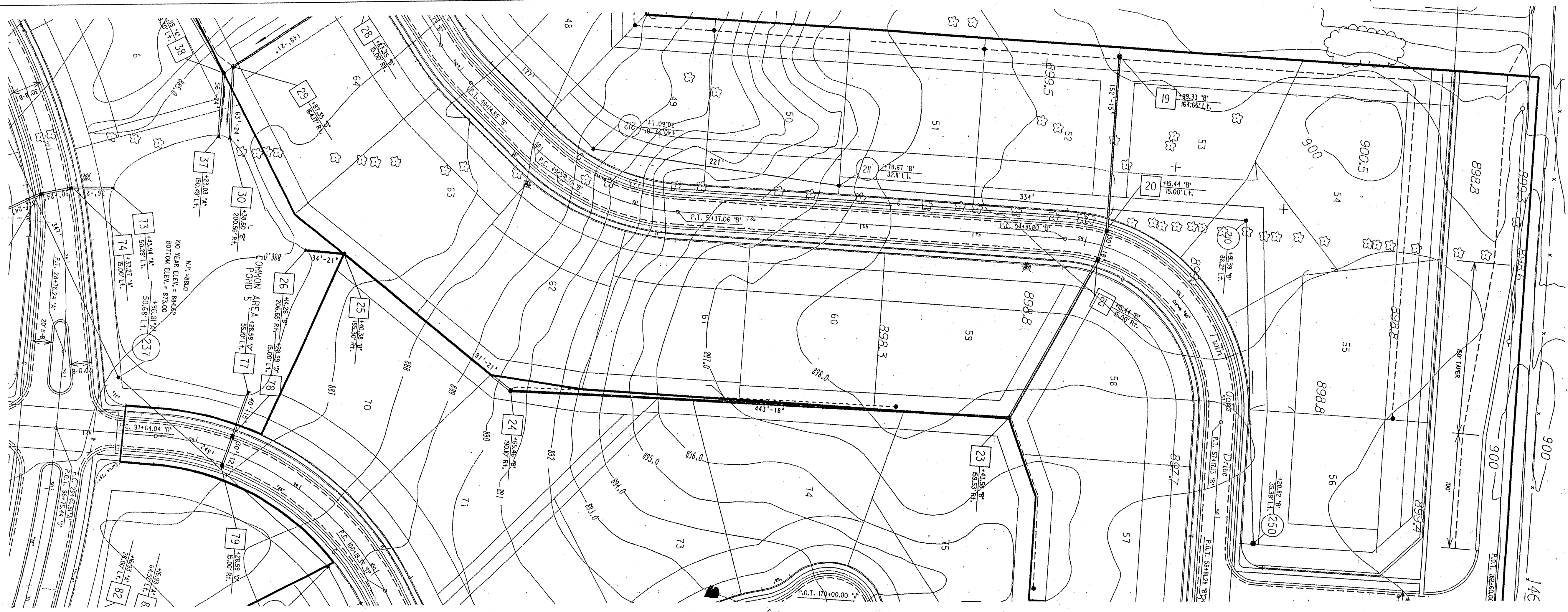
Revisions and Dates	Designed by
3-12-93 Revise 146th Street R/W grading	BEH
3-28-93 Delete Str 80, Add pipe run II-R2	Drawn by
3-28-93 Add 20 Lft 8" CMP to SSD outfalls	OSC
4-09-93 Changed Street Names	Checked by
4-20-93 Relocate Str III & R2	BEH
4-20-93 Add SSD Riser SW corner Lot 49	Approved by
9-13-93 Rev. grading rear of lots 53-56, 146th St Grading	SEB

MSE Engineering
 MSE Corporation
 501 Congressional Boulevard
 Suite 110
 Carmel, IN 46032
 317 843-5080
 317 843-5089 FAX

Title: **SITE UTILITY PLAN & GRADING PLAN**
SECTION 2 of 12

Scale: 1" = 50' Job No. 114-0522 Sheet No. 2 of 7

DATE: _____ BY: _____
 CHECKED: _____
 DRAWN: _____
 NO. _____
 NOTE BOOK: _____
 RT. OF WAY CHECKED: _____



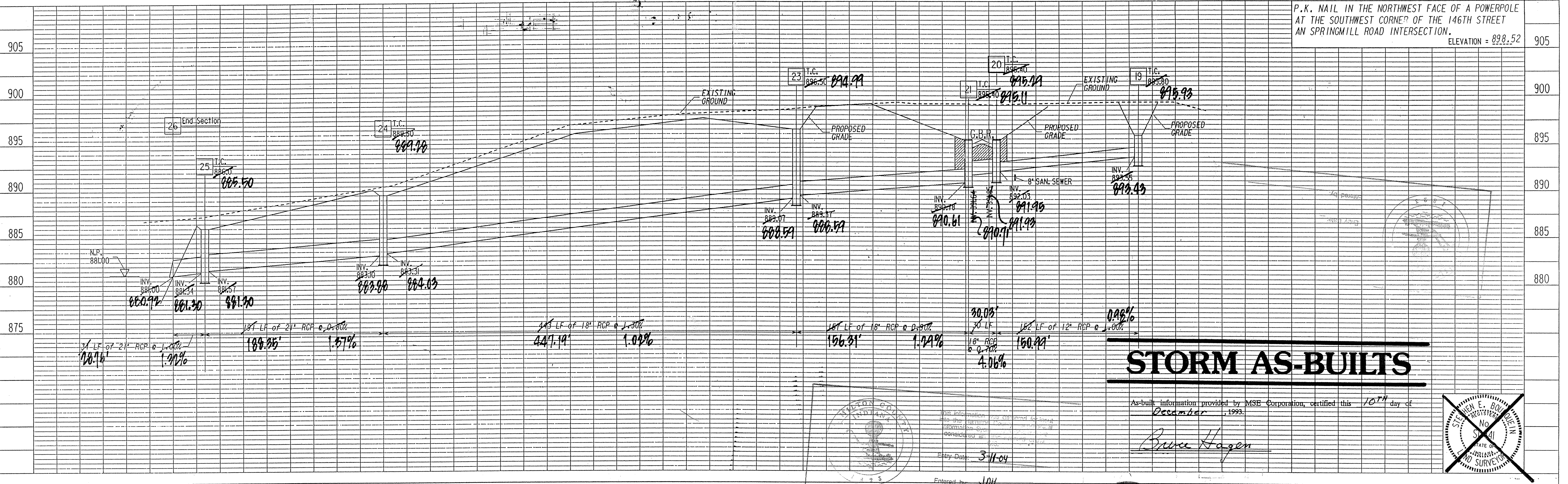
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 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

SCALE:
 PLAN: 1" = 50'
 PROFILE: 1" = 5'
 HORIZONTAL: 1" = 50'

BENCH MARK DESCRIPTION

P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION. ELEVATION = 898.52

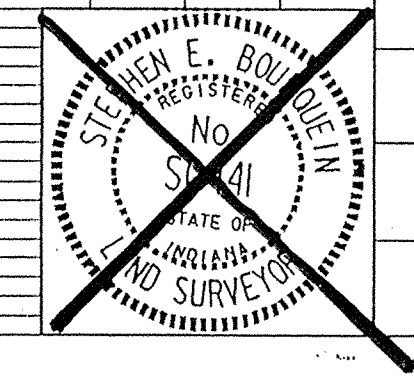
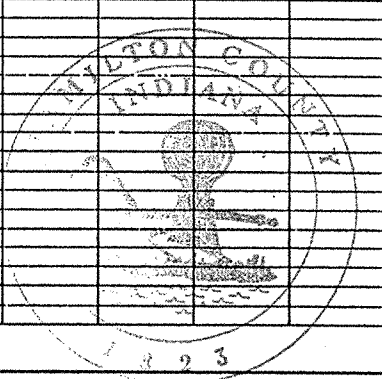
DATE: _____ BY: _____
 CHECKED: _____
 DRAWN: _____
 NO. _____
 NOTE BOOK: _____
 STRUCTURE NOTATIONS CHECKED: _____



STORM AS-BUILTS

As-built information provided by MSE Corporation, certified this 10TH day of December, 1993.

Bruce Hagen



MSE Engineering



PONDS WEST

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DGN	PRP
44-0522		1	1	5225TMLD	5225TMLP

FILED

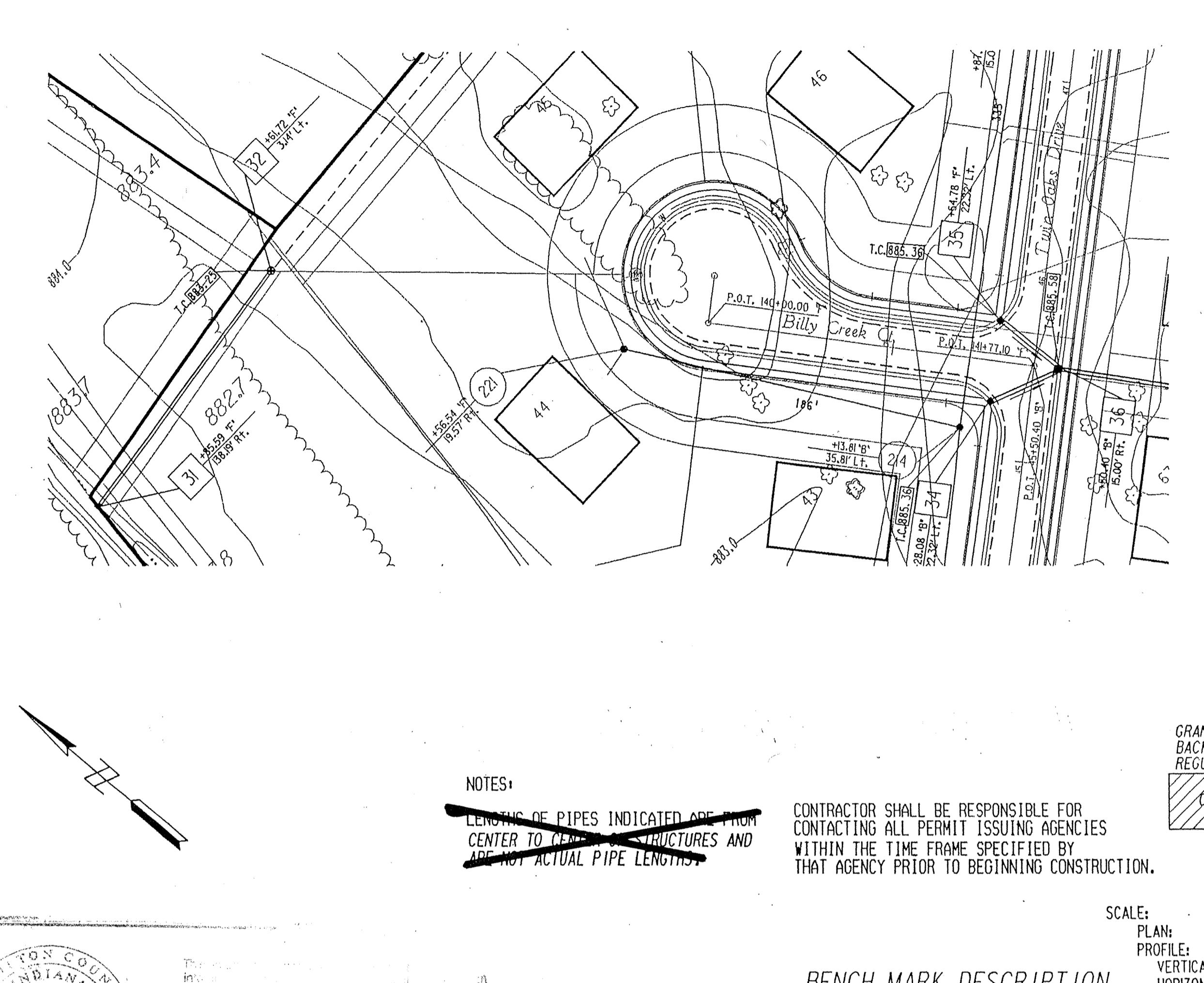
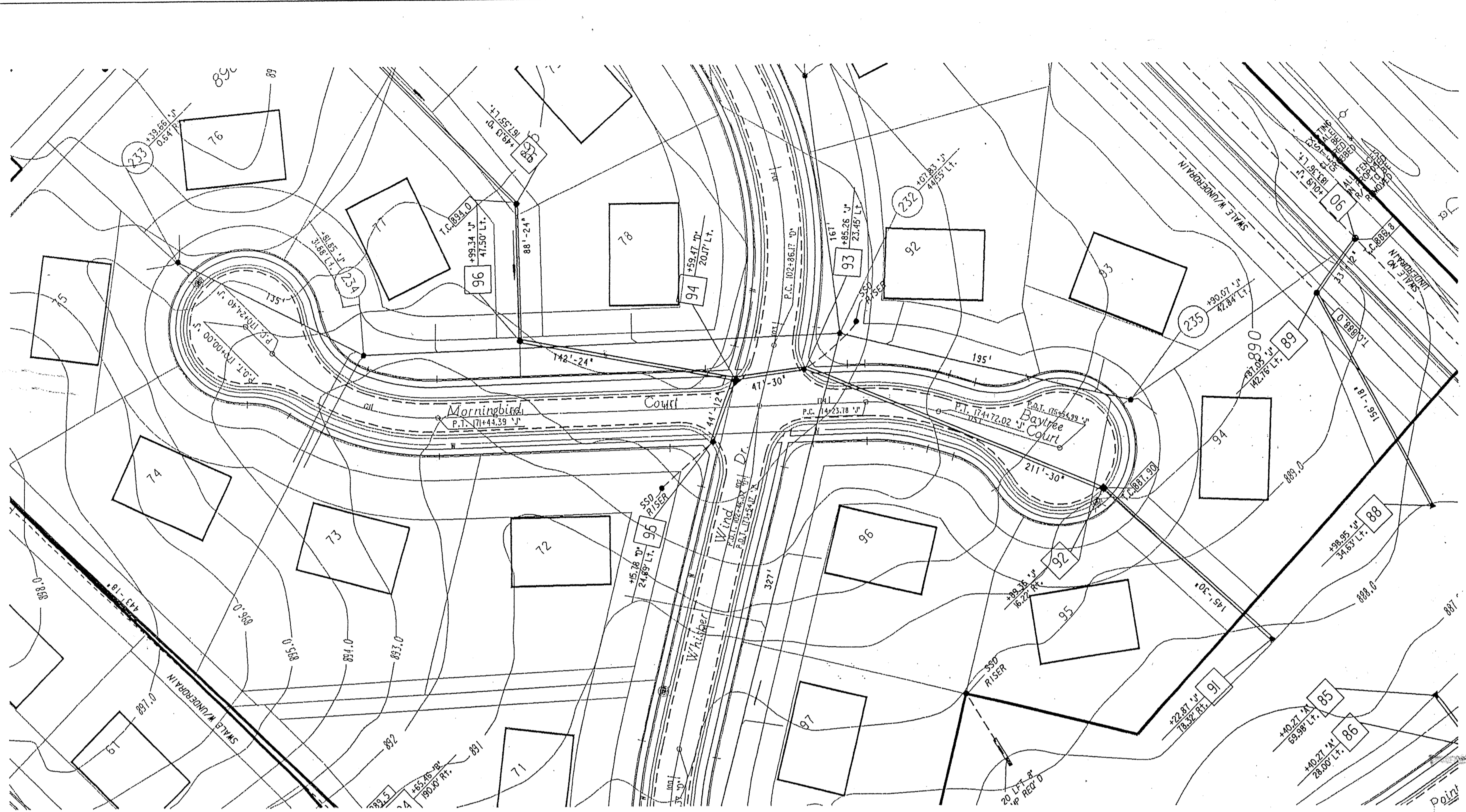
DEC 14 1993

OFFICE OF HAMILTON COUNTY SURVEYOR

STORM PLAN AND PROFILE

50F12

DATE: _____ BY: _____
 PLAN SHEET NO. _____
 CHECKED BY: _____
 DATE: _____



NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

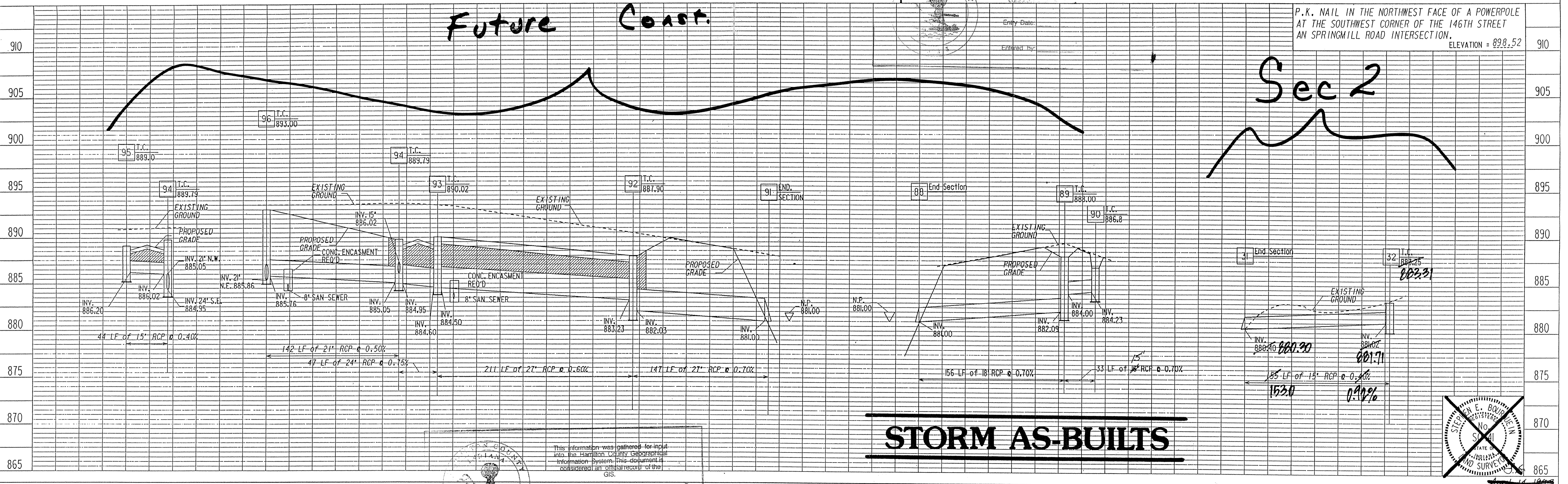


SCALE:
 PLAN: 1" = 50'
 PROFILE: 1" = 5'
 HORIZONTAL: 1" = 50'

BENCH MARK DESCRIPTION

P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION.
 ELEVATION = 898.52

DATE: _____ BY: _____
 PROFILE SHEET NO. _____
 CHECKED BY: _____
 DATE: _____



Future Coast.

Sec 2

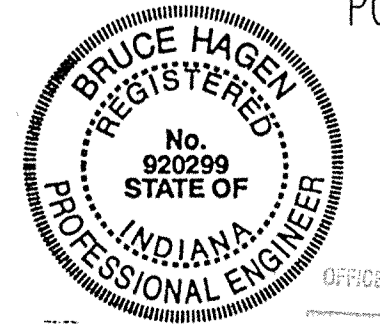
STORM AS-BUILTS

This information was gathered for input into the Hamilton County Geographic Information System (GIS).
 Entry Date: 3-11-04
 Entered by: JDH

MSE Engineering

As-built information provided by MSE Corporation, certified this 10TH day of December, 1993.

Bruce Hagen



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DN	PRF
84-0522		1	1	5225TH	5225TH

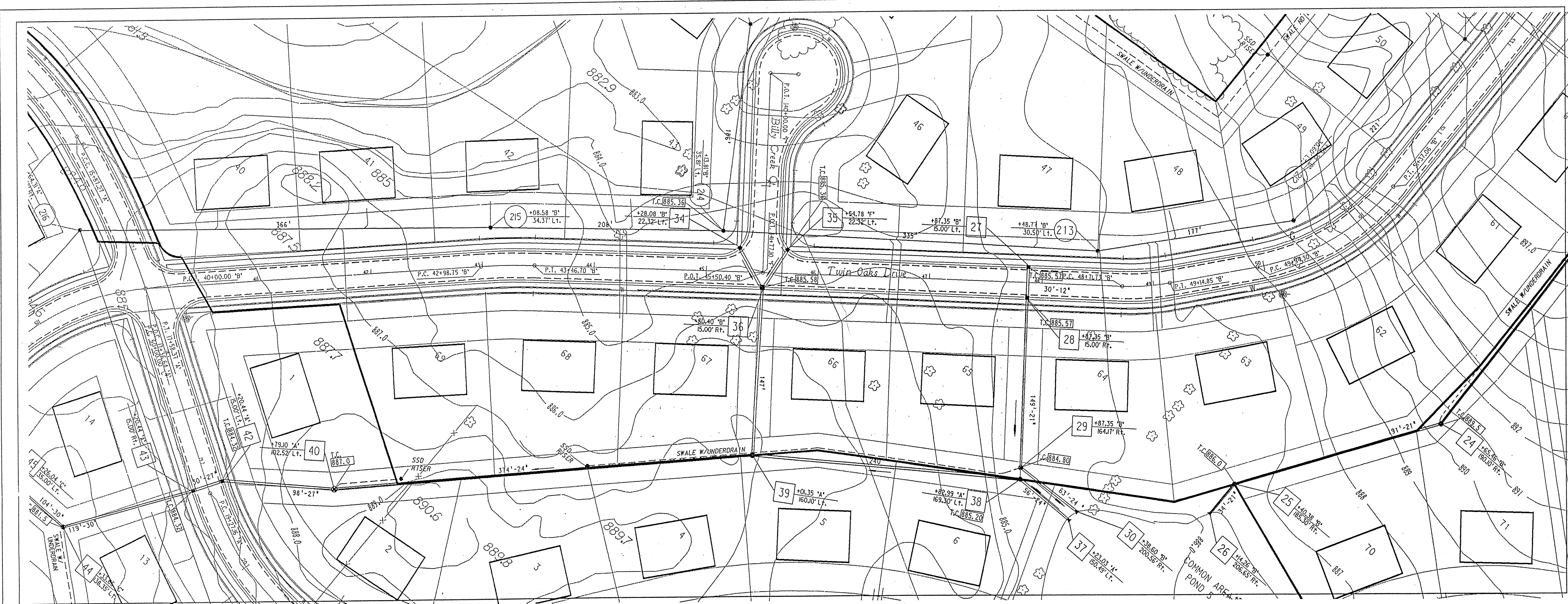
3-12-93 Adjust T.C. Str 90

60F12

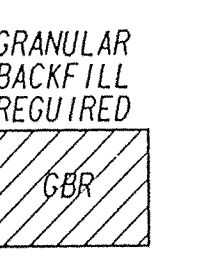
DEC 14 1993

STORM PLAN & PROFILES

DATE	
BY	
PLAN SURVEYED	
PLOTTED	
NOTE BOOK	
NO. OF PAGES	



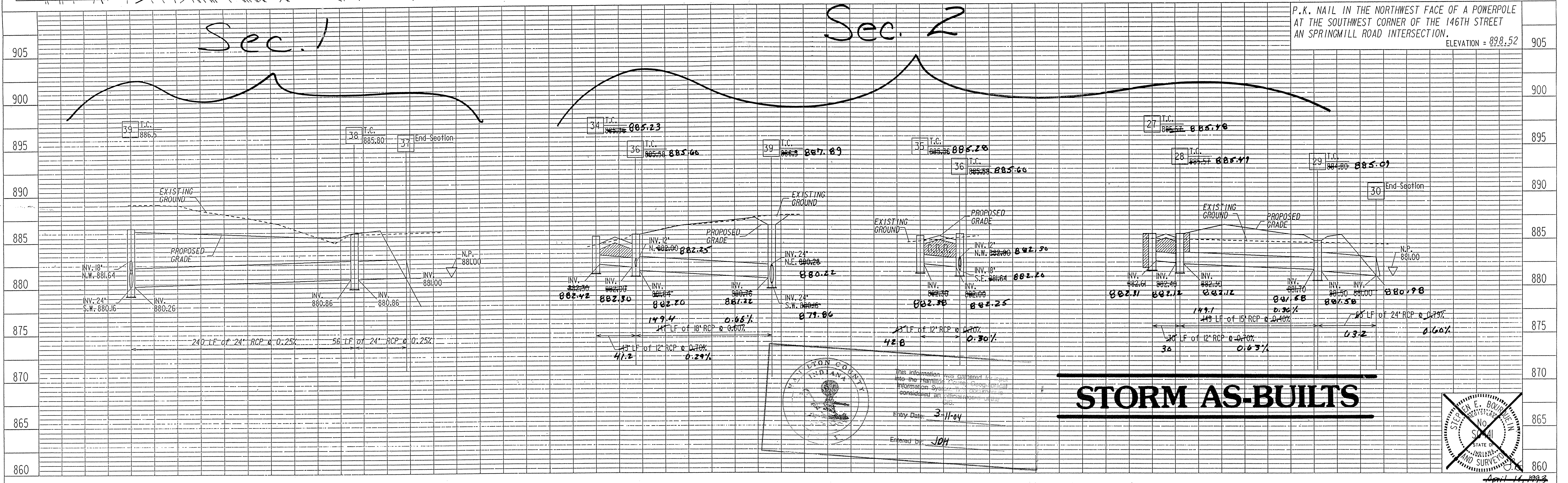
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 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.



SCALE:
 PLAN: 1" = 50'
 PROFILE: 1" = 5'
 HORIZONTAL: 1" = 50'

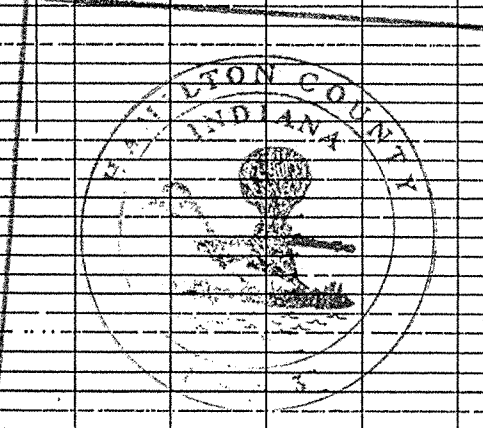
BENCH MARK DESCRIPTION

DATE	
BY	
PROFILE SURVEYED	
PLOTTED	
NOTE BOOK	
NO. OF PAGES	

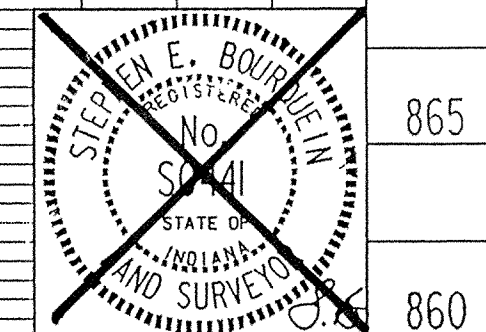


P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION.
 ELEVATION = 898.52

STORM AS-BUILTS



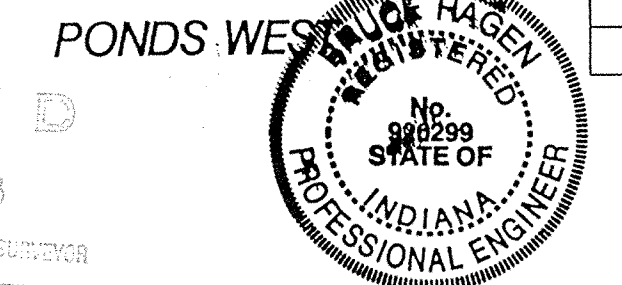
This information was prepared by MSE Corporation, certified this 10th day of December, 1993.
 Entered by: JHM



MSE Engineering

As-built information provided by MSE Corporation, certified this 10th day of December, 1993.

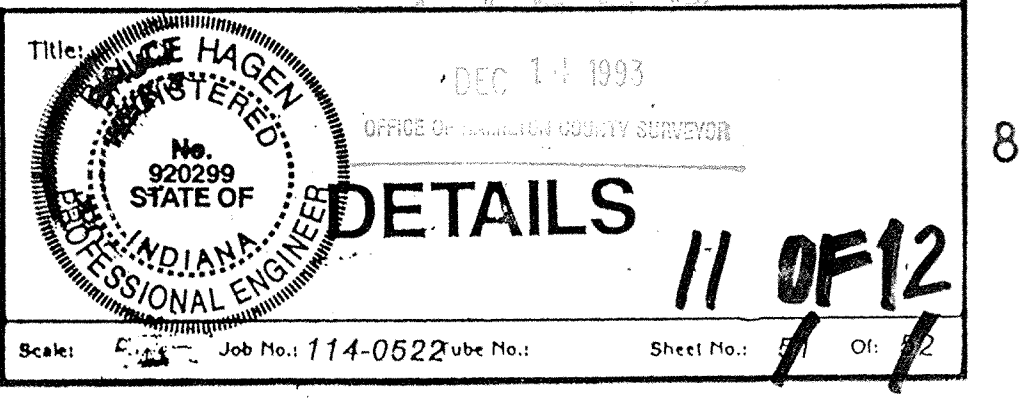
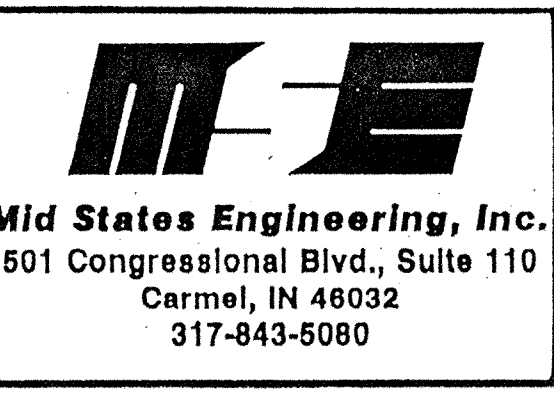
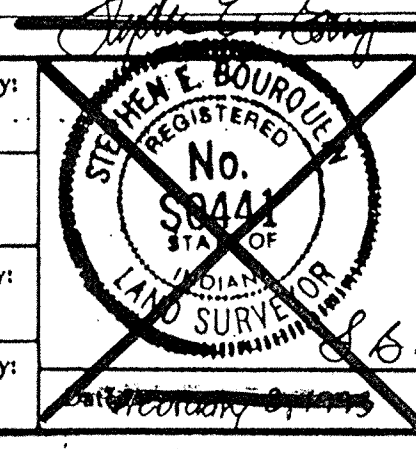
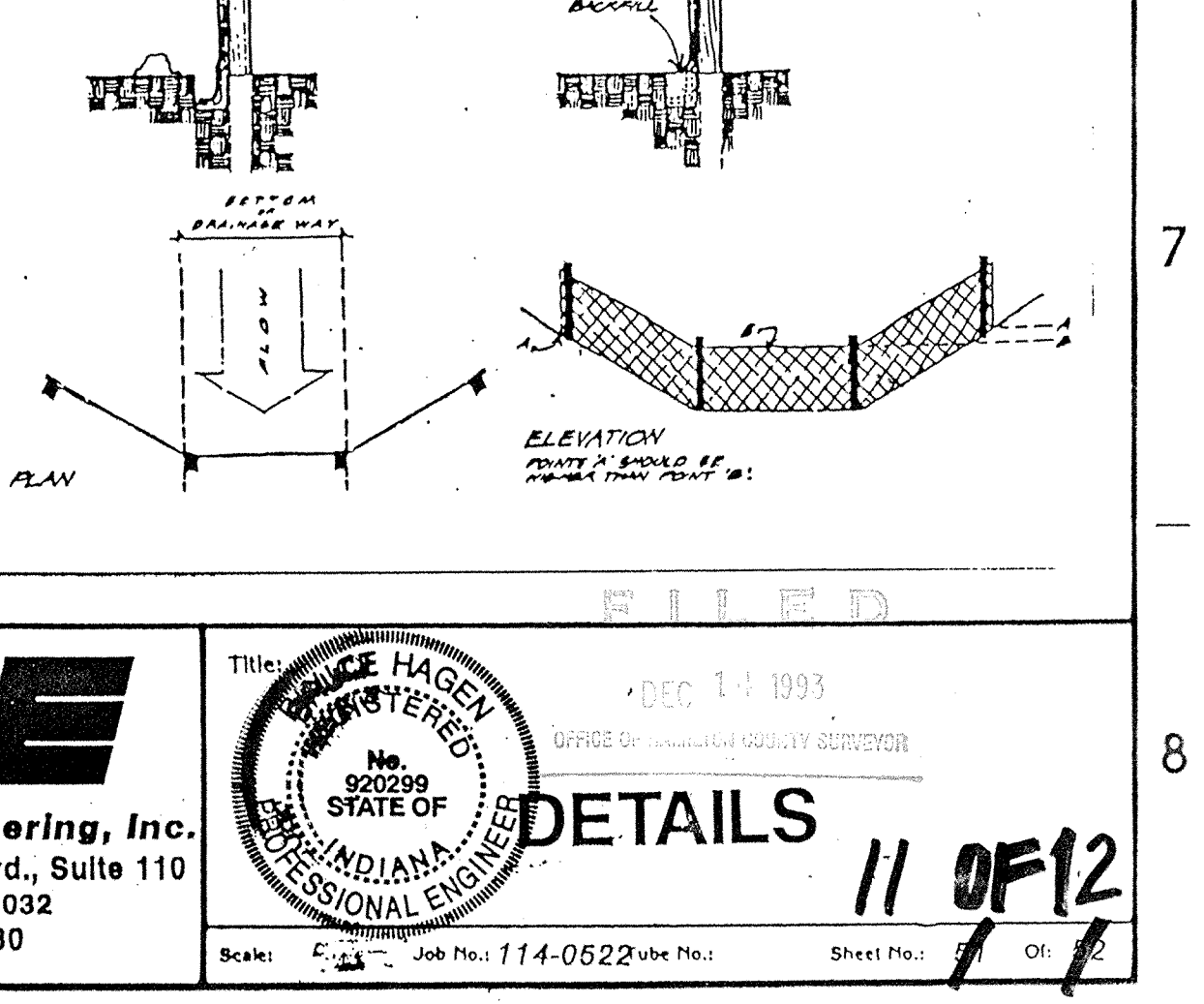
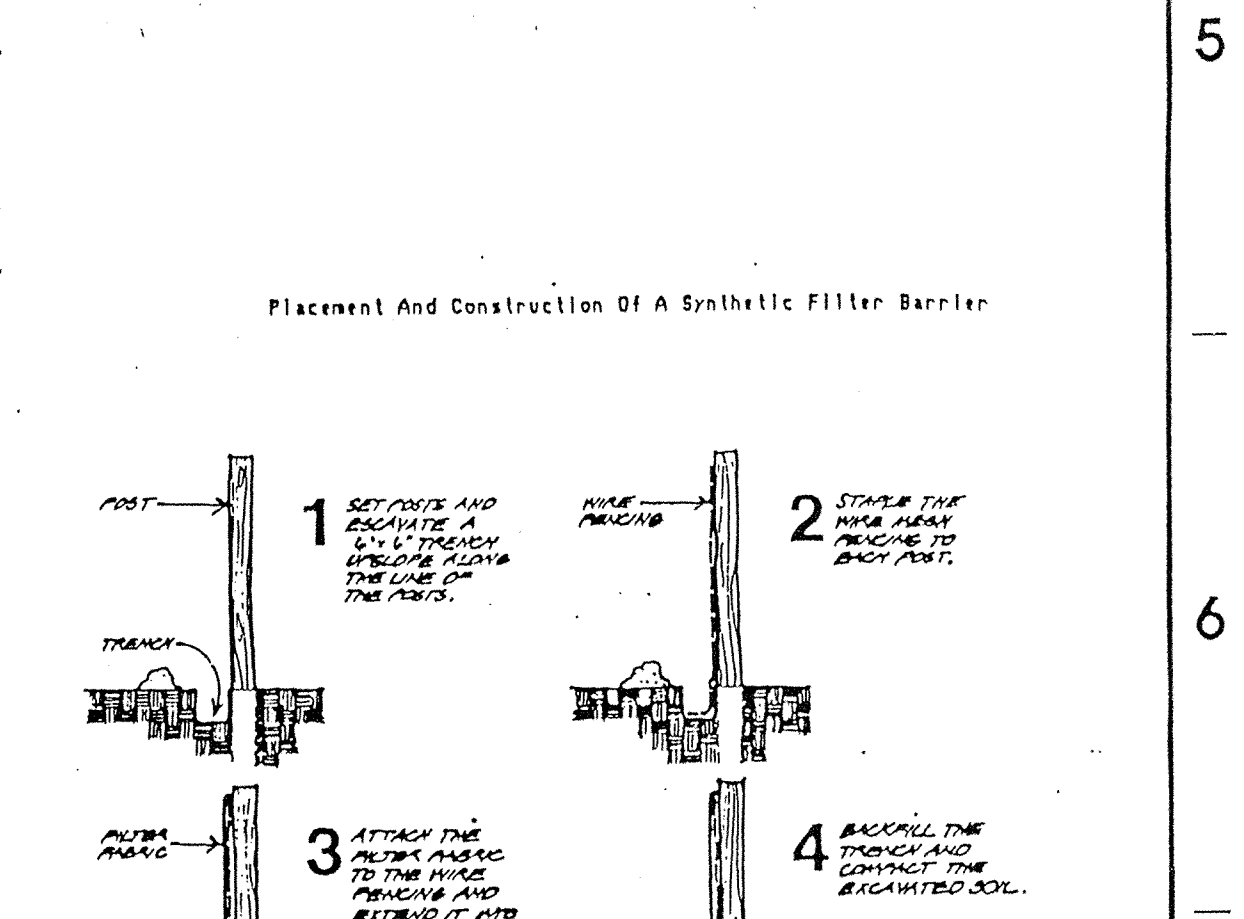
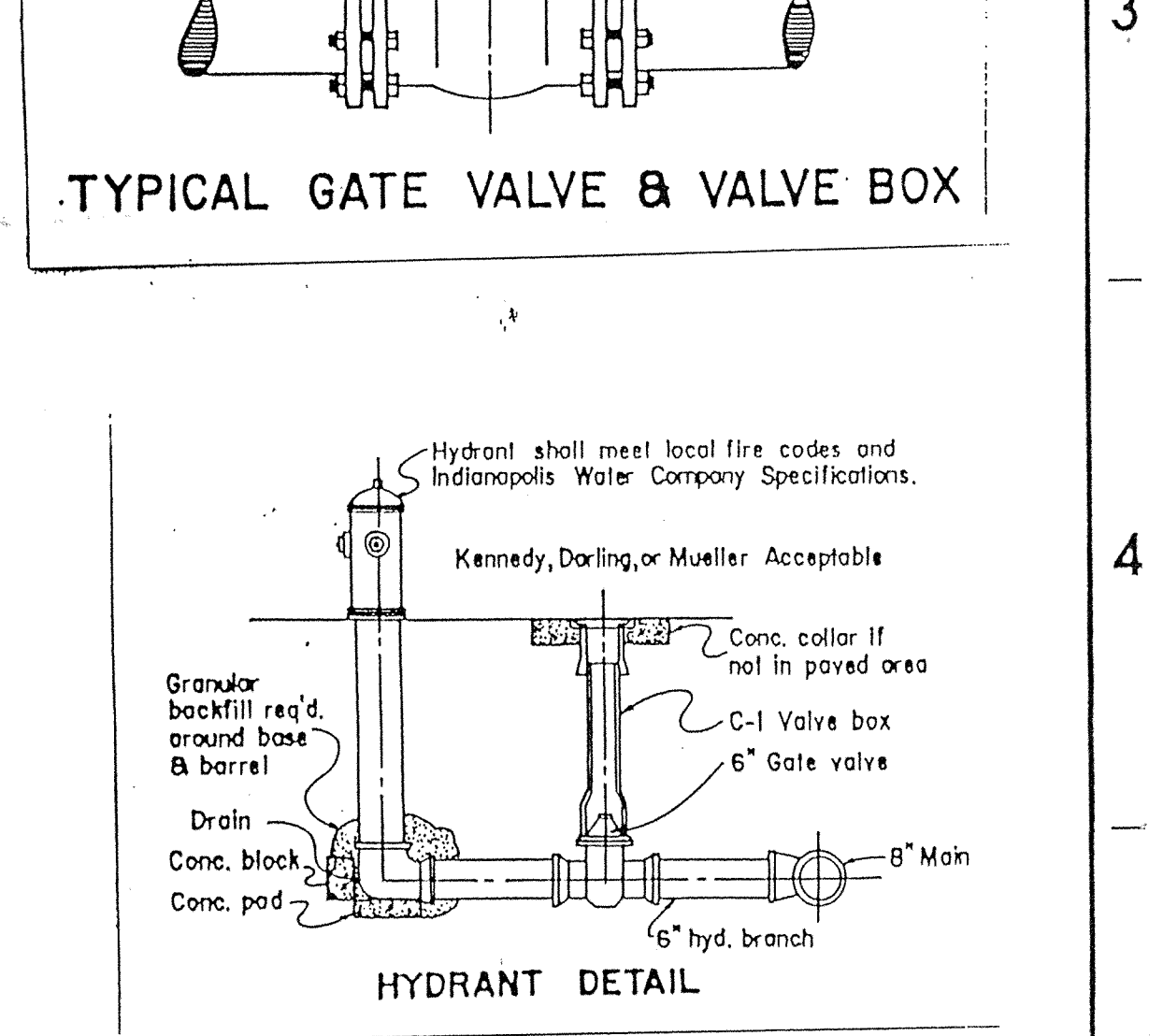
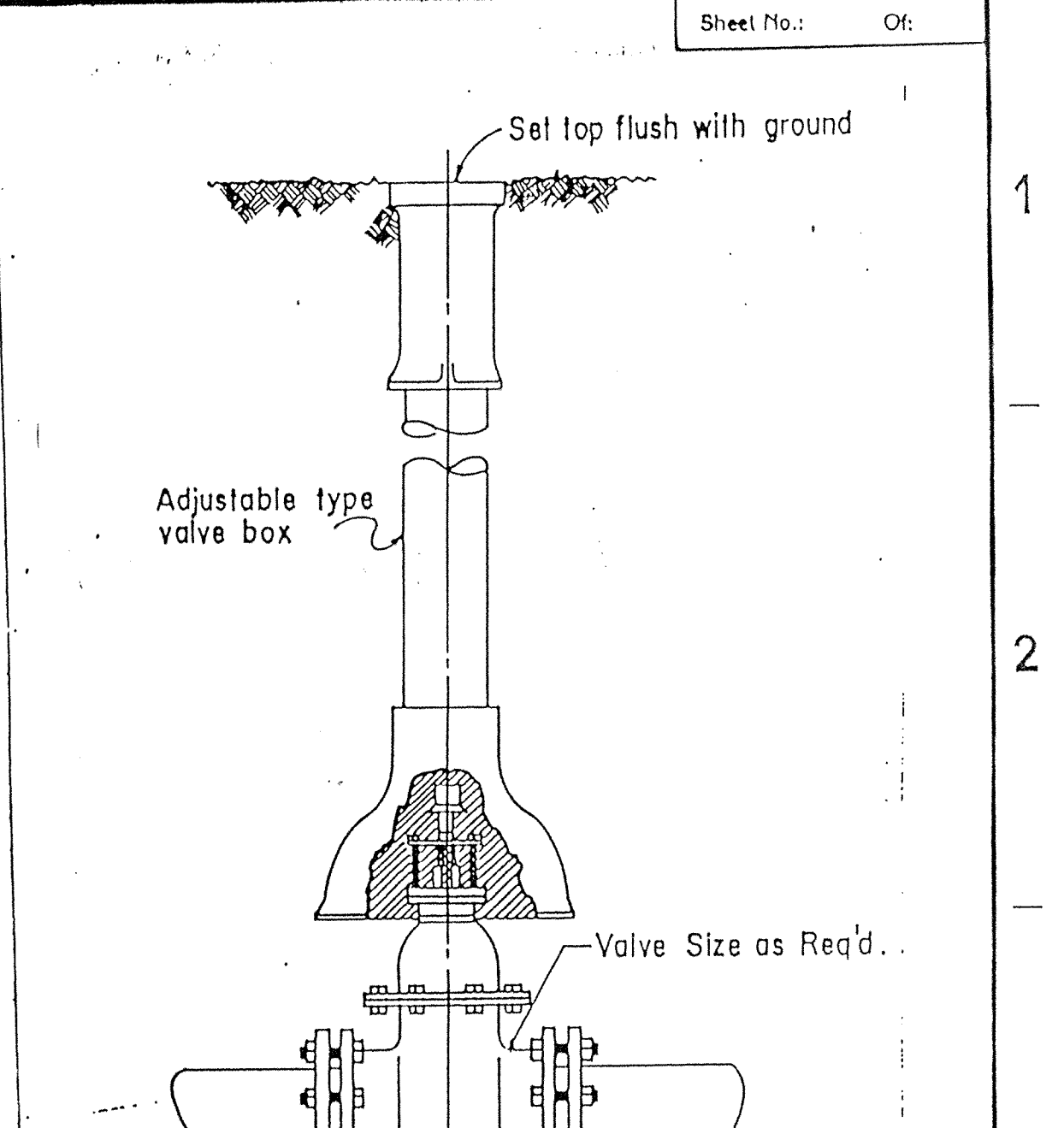
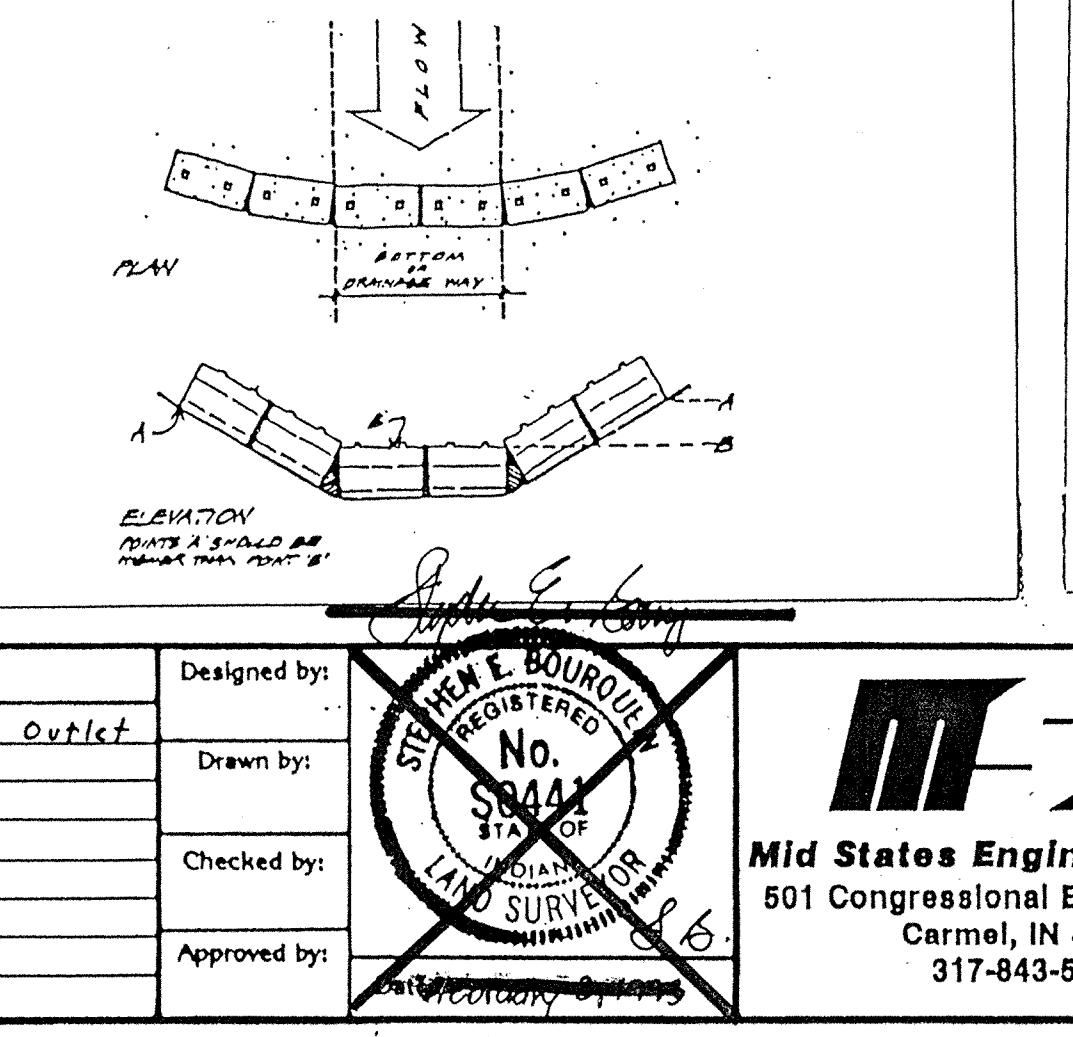
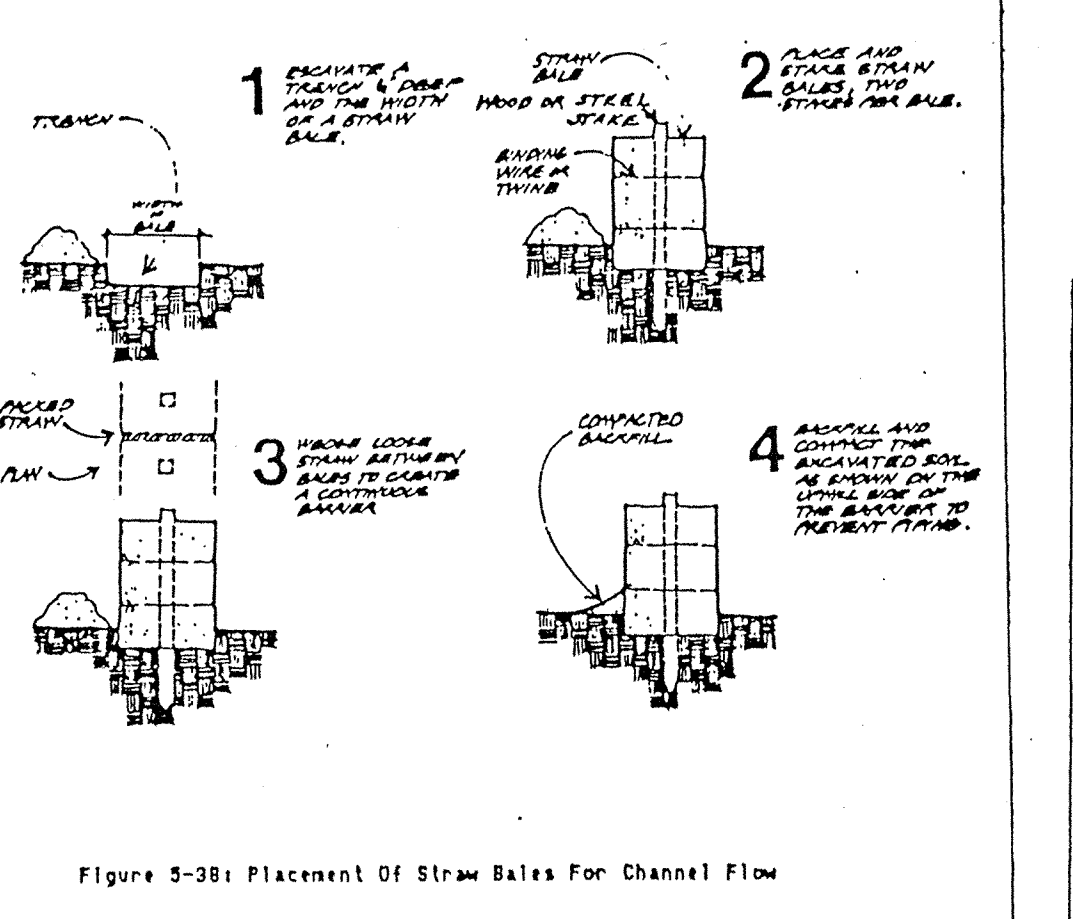
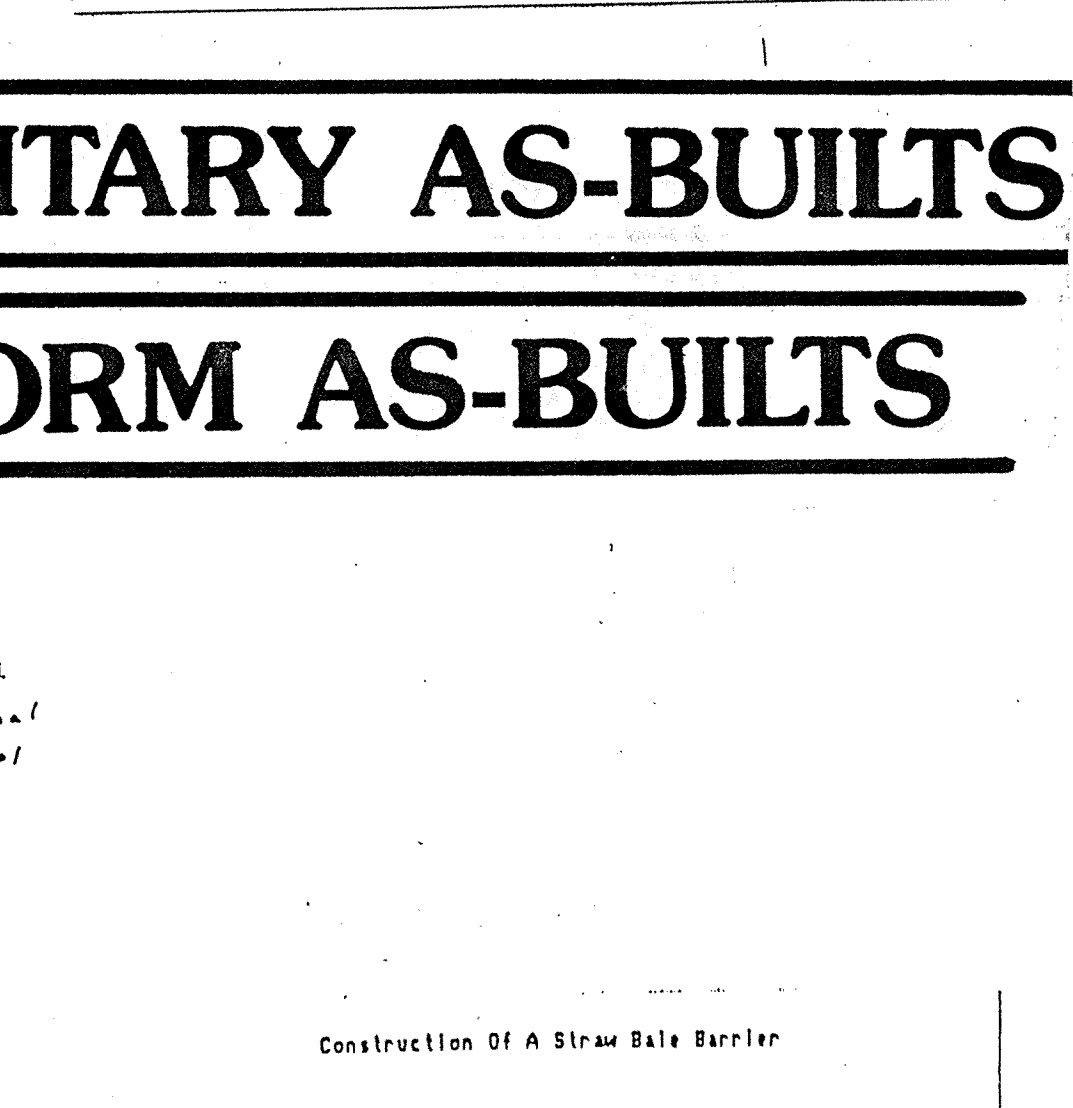
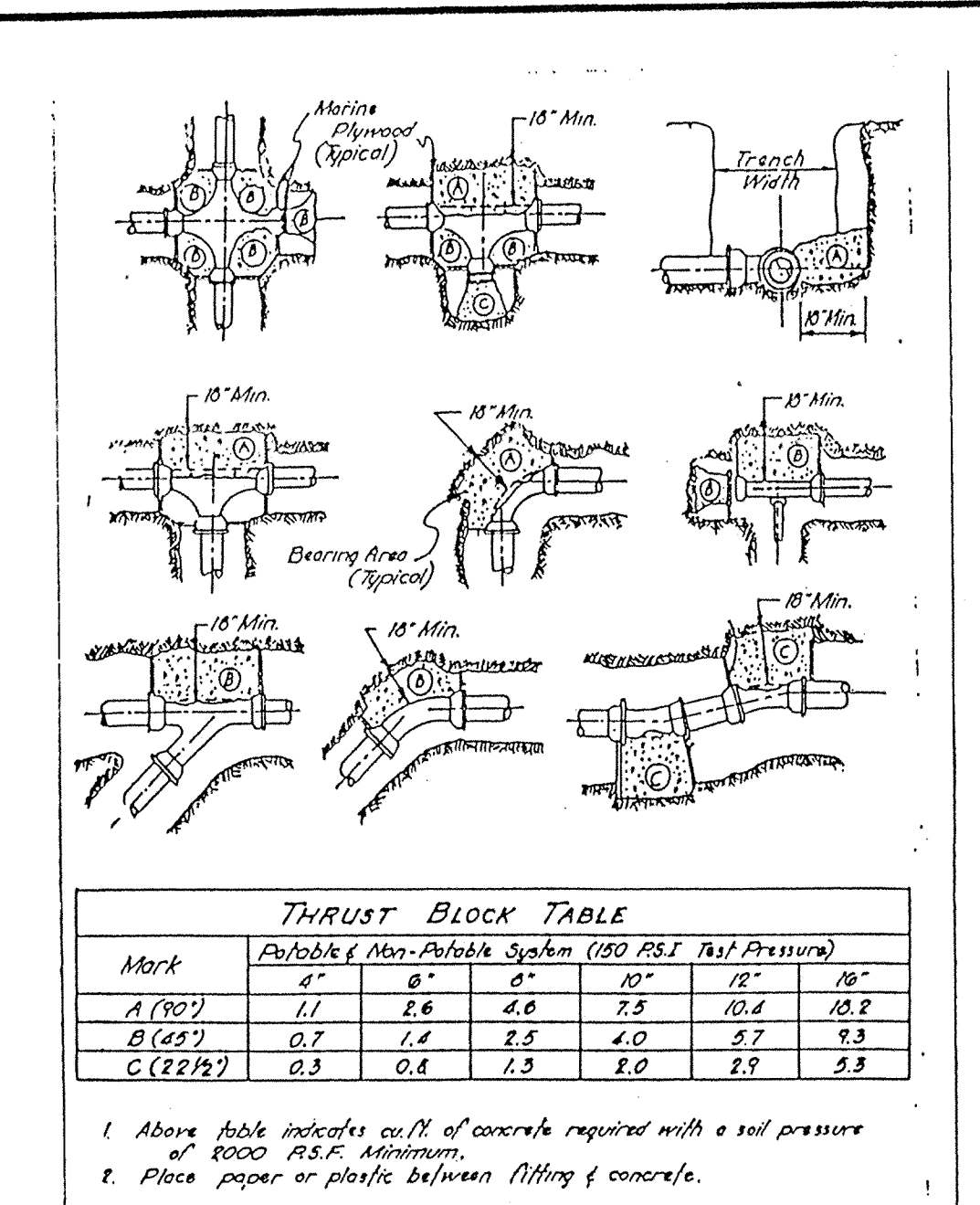
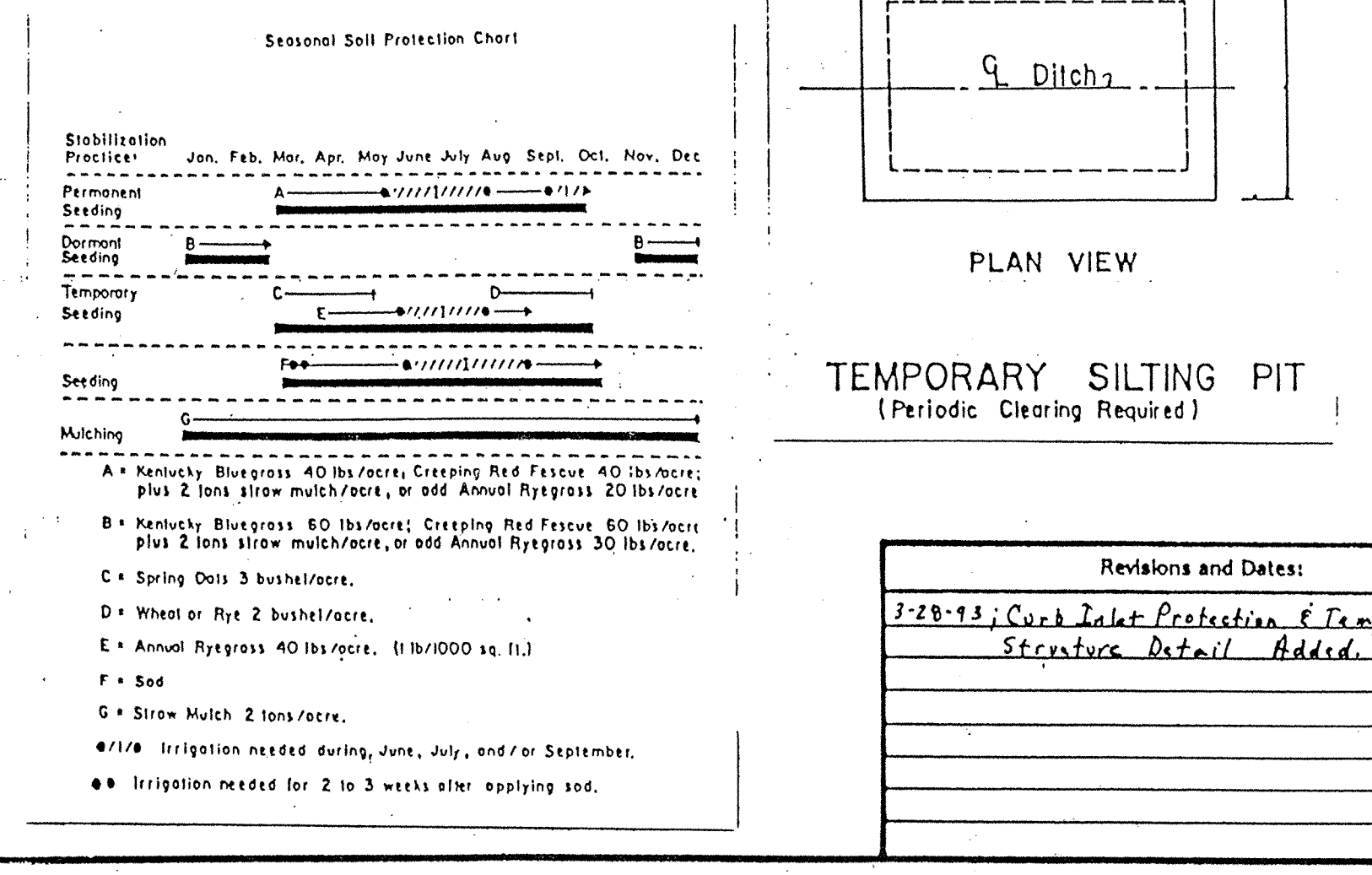
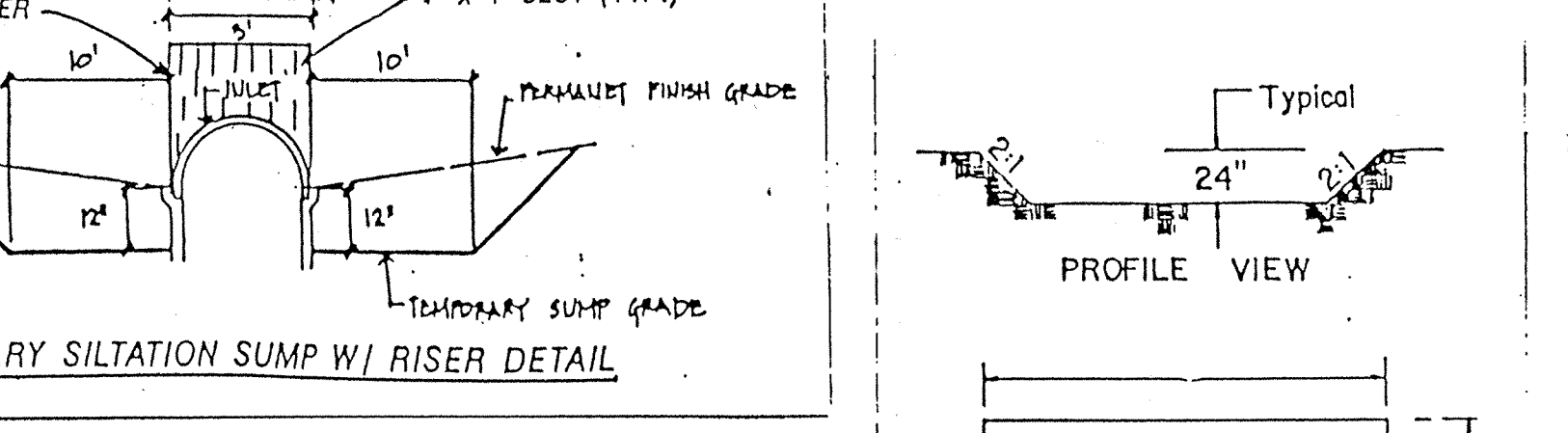
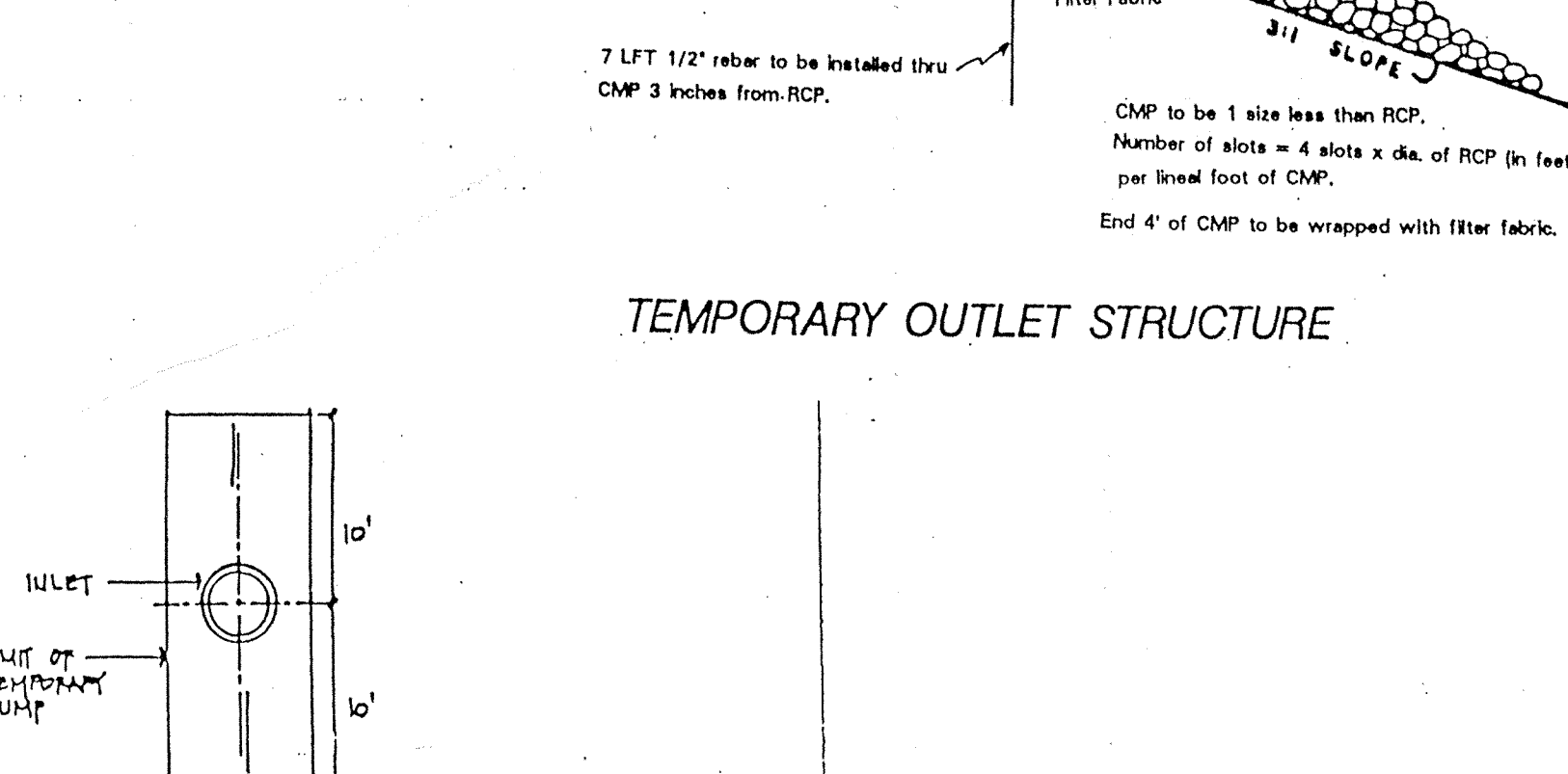
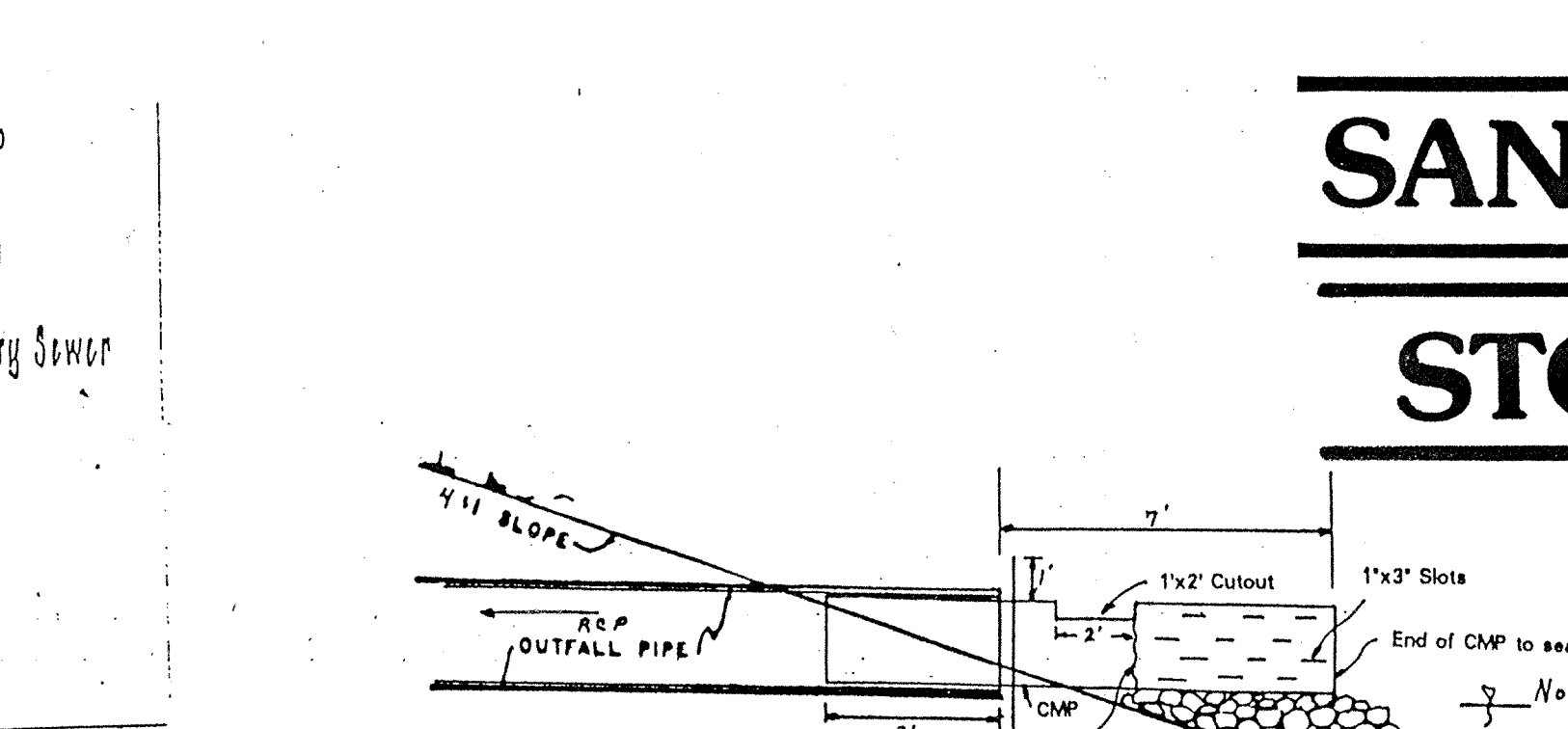
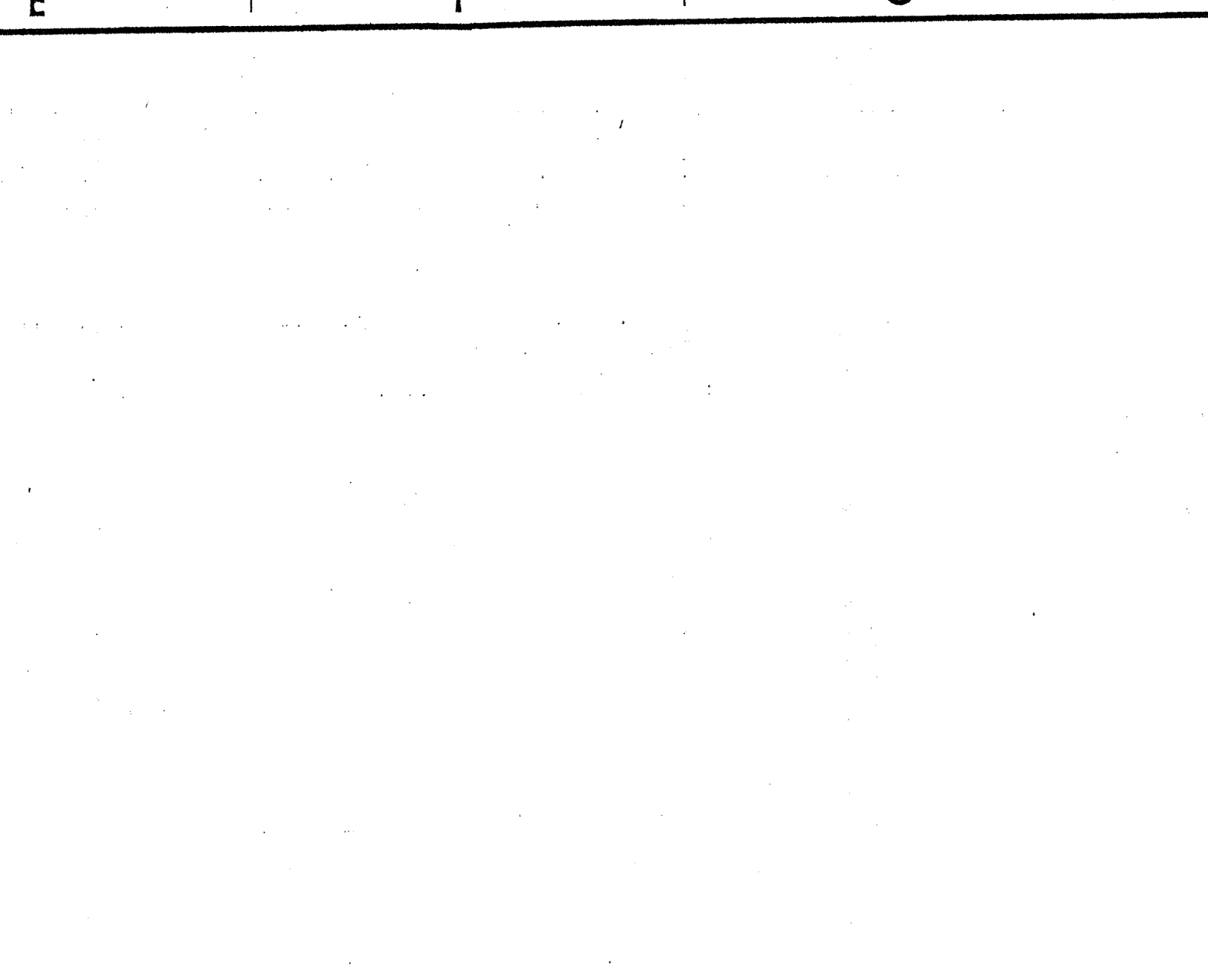
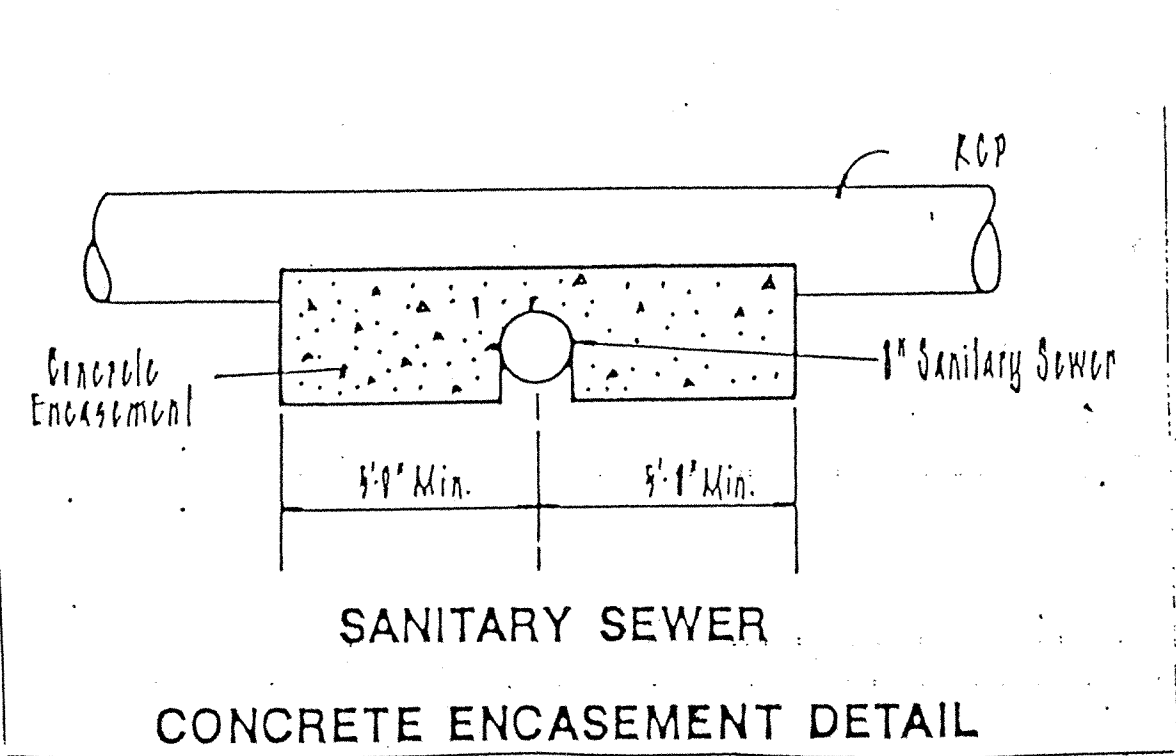
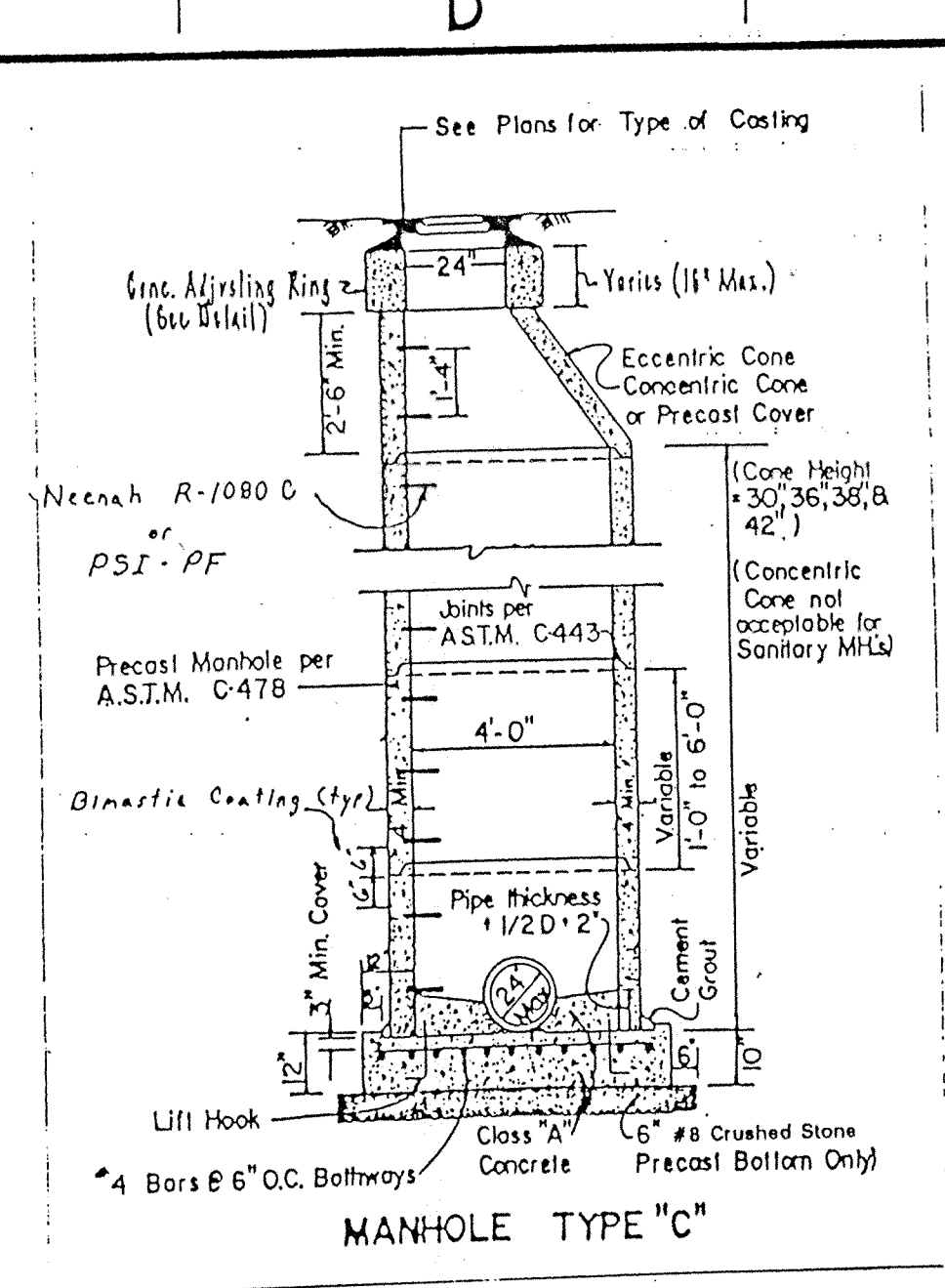
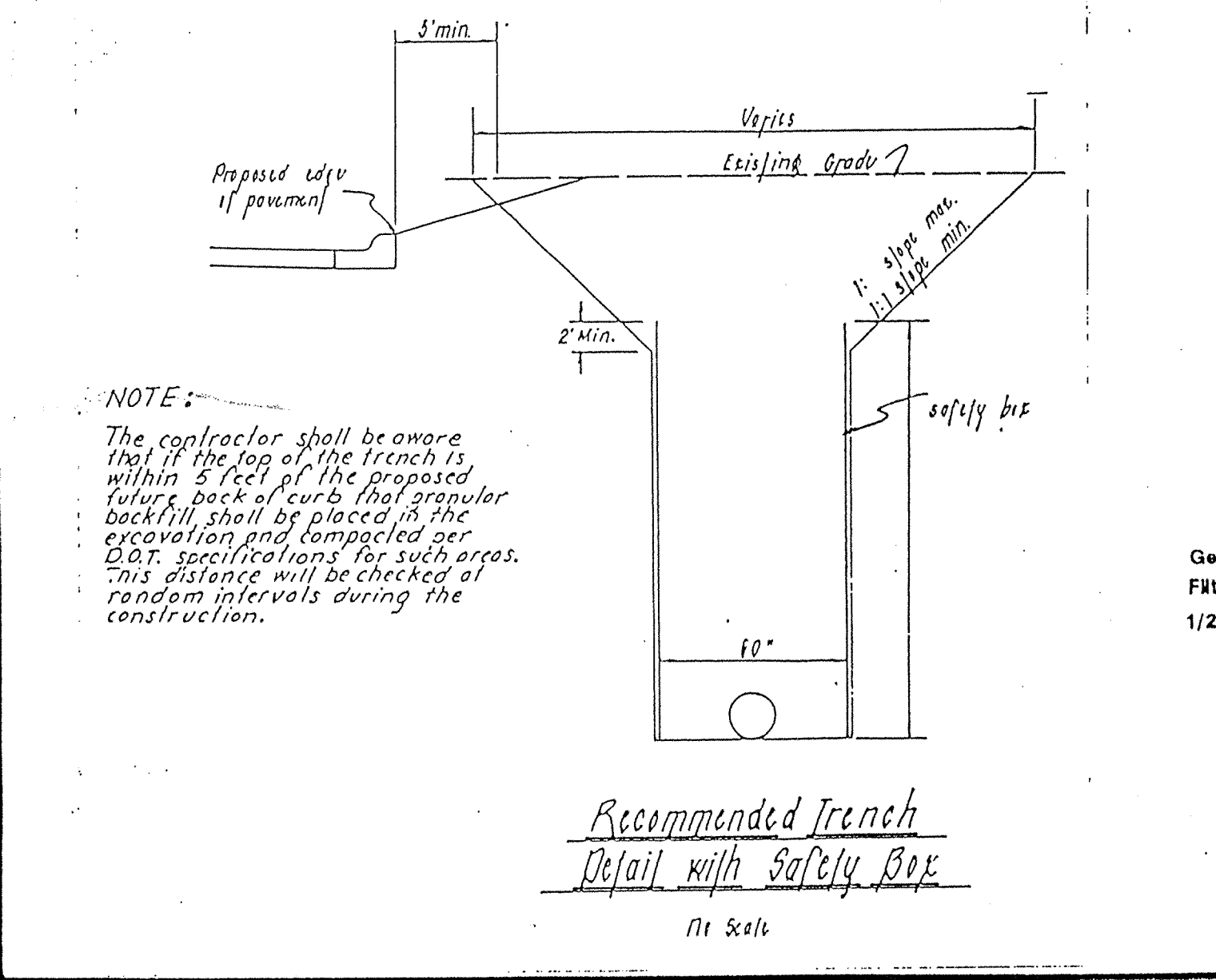
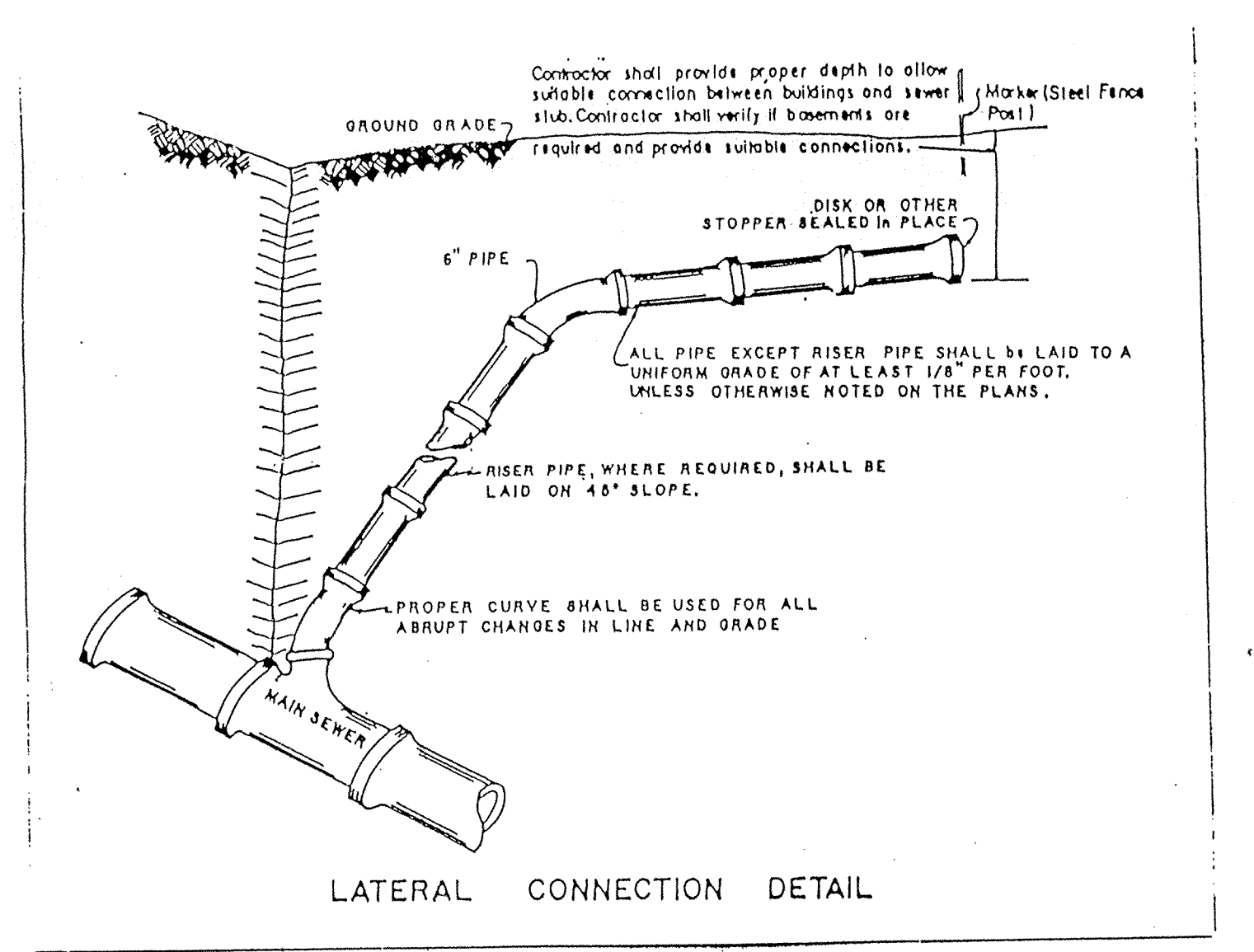
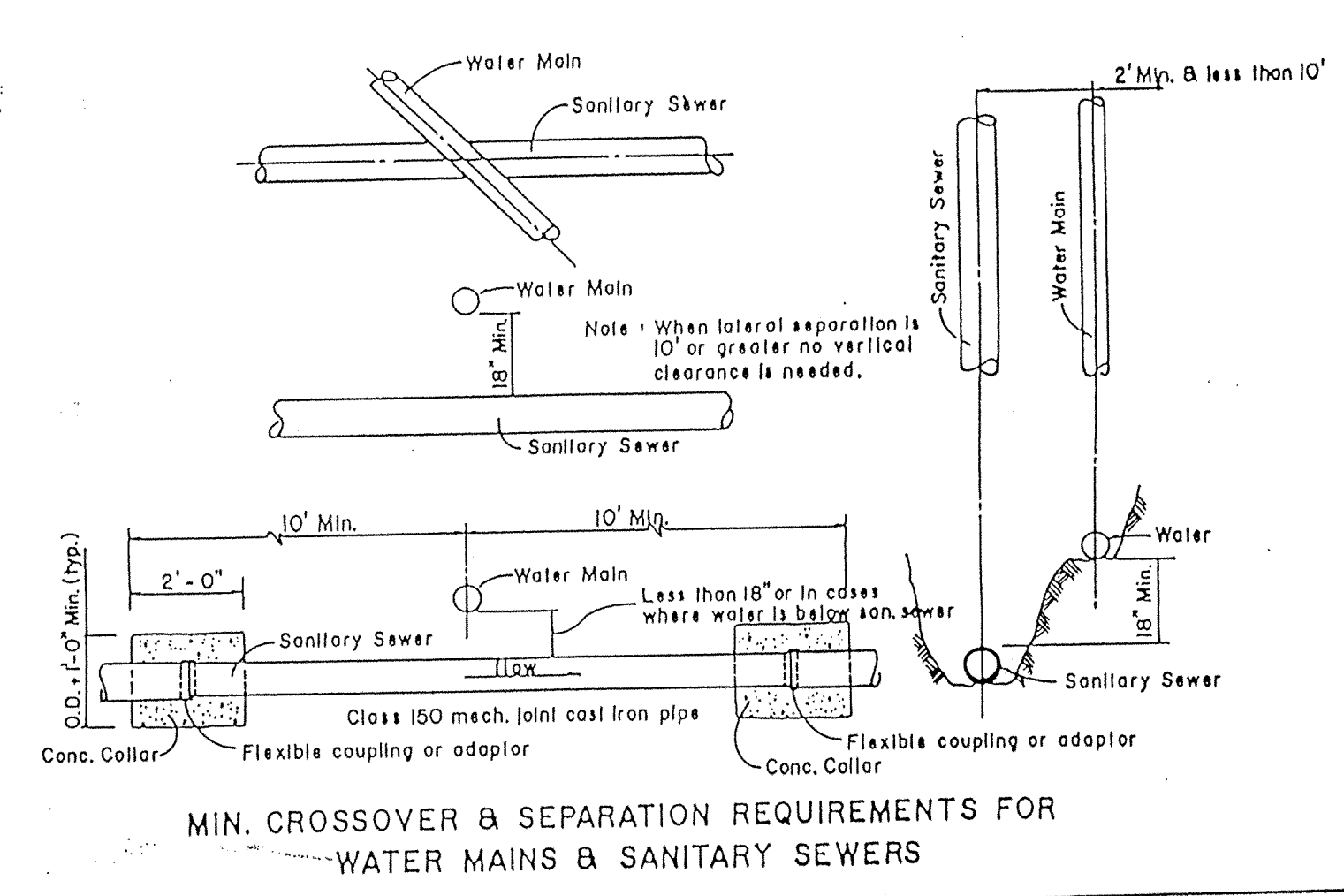
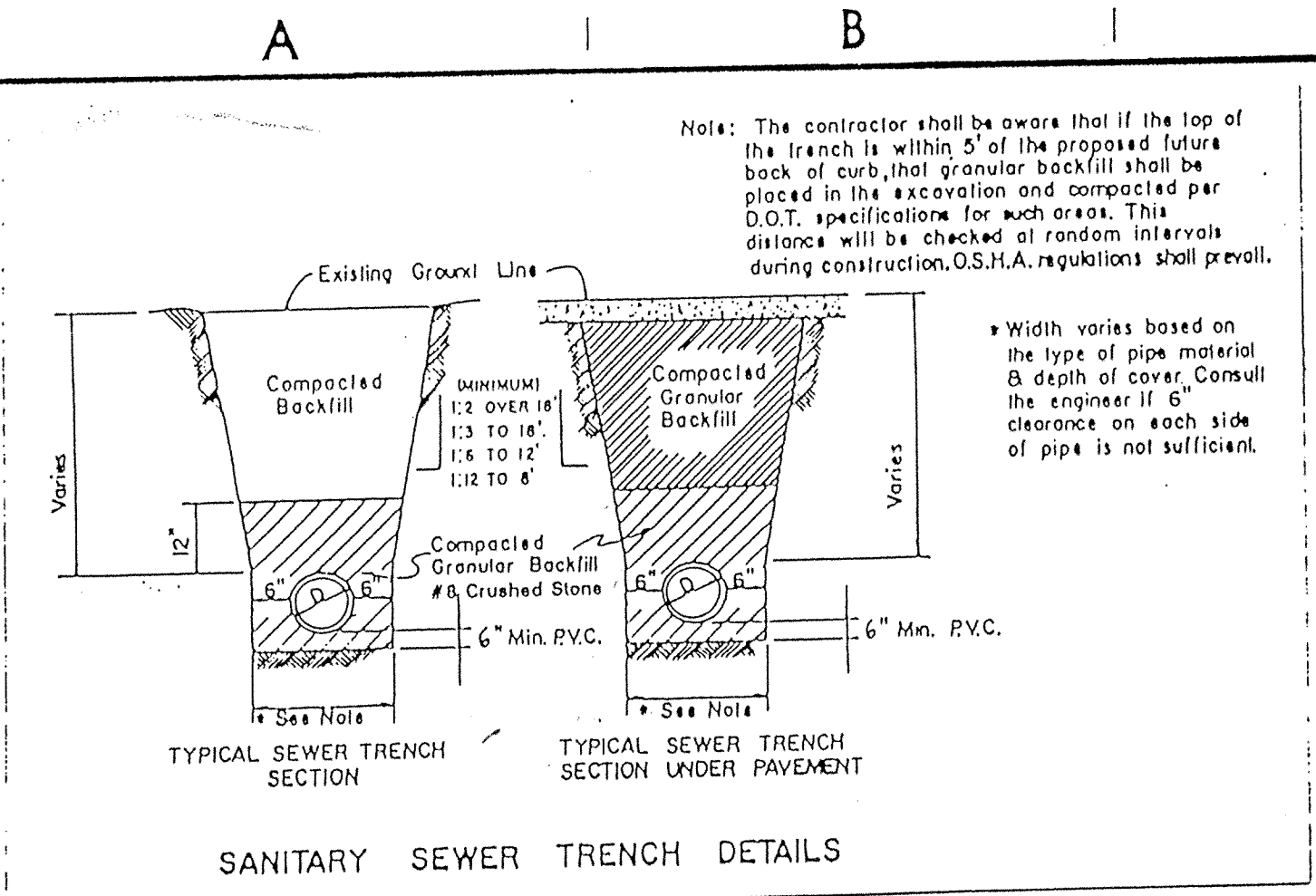
Bruce Hagen

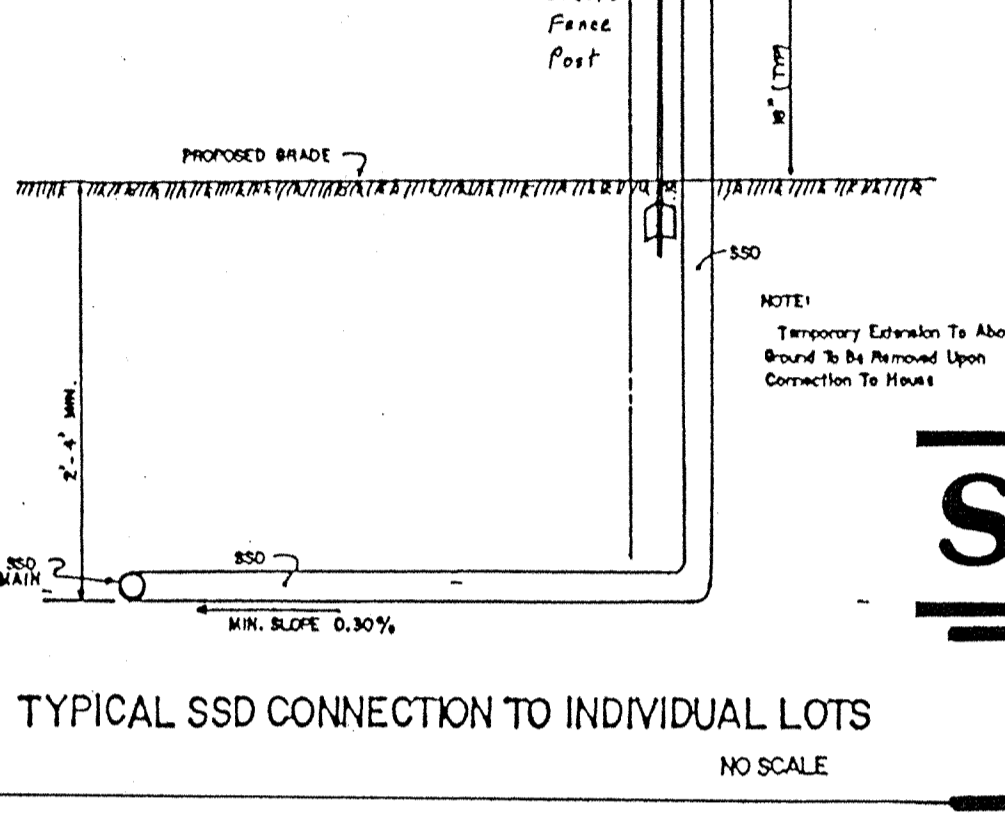
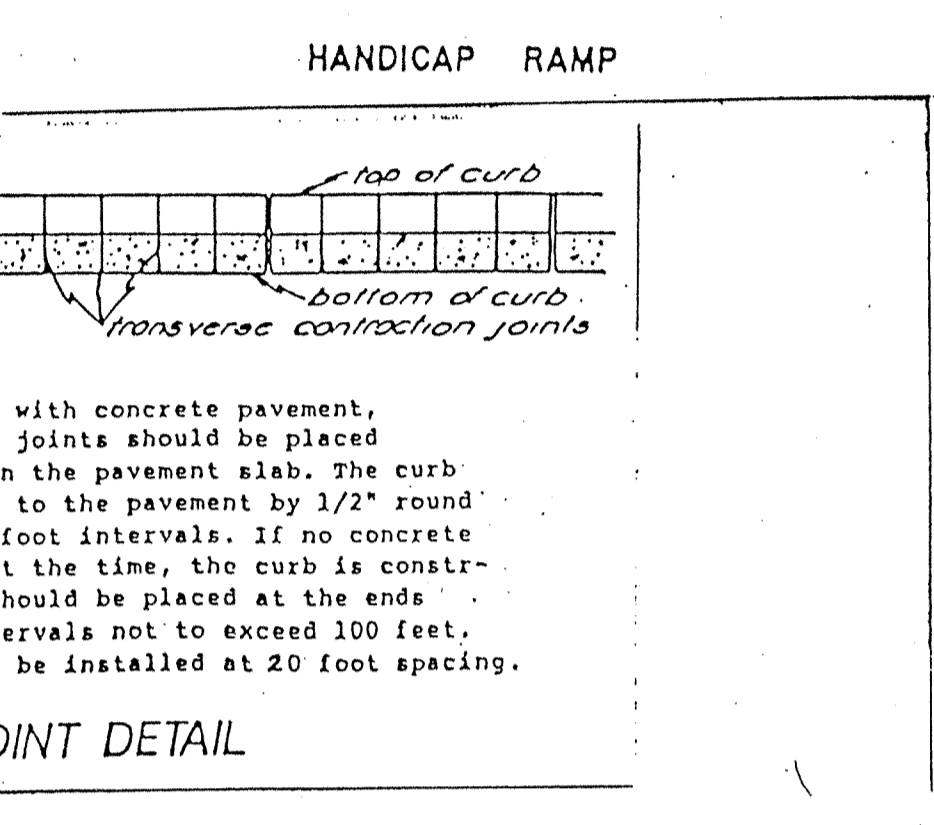
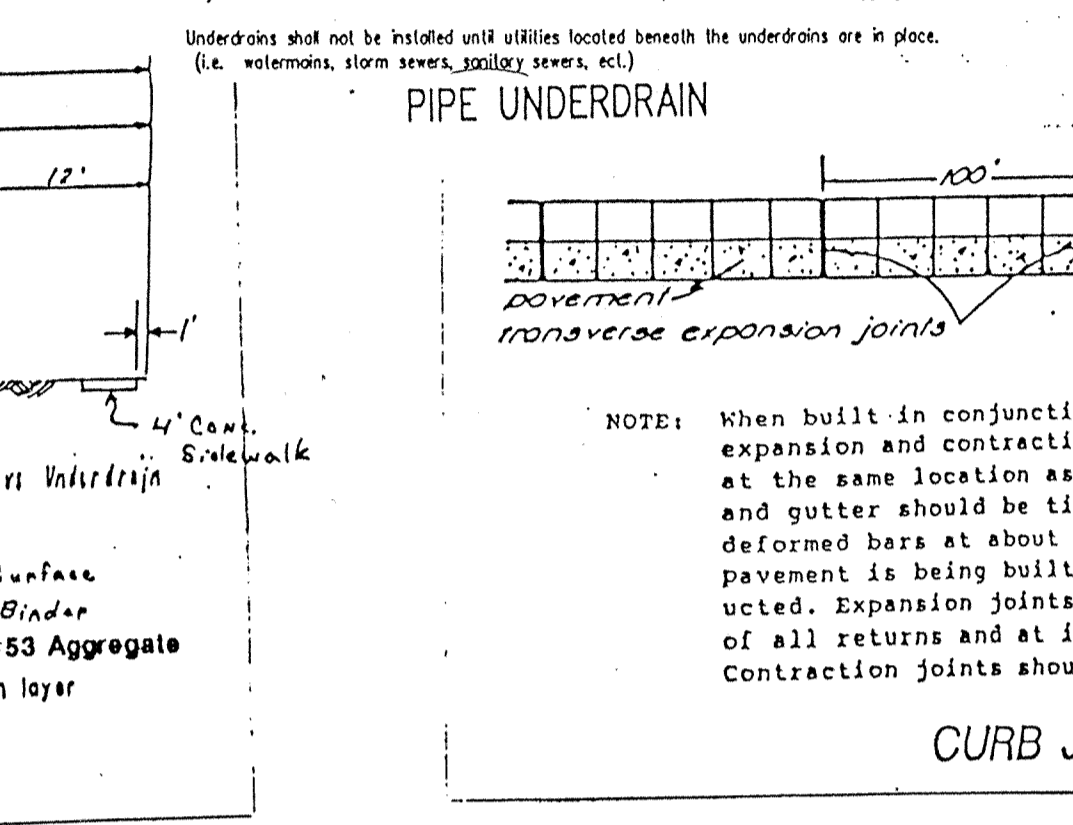
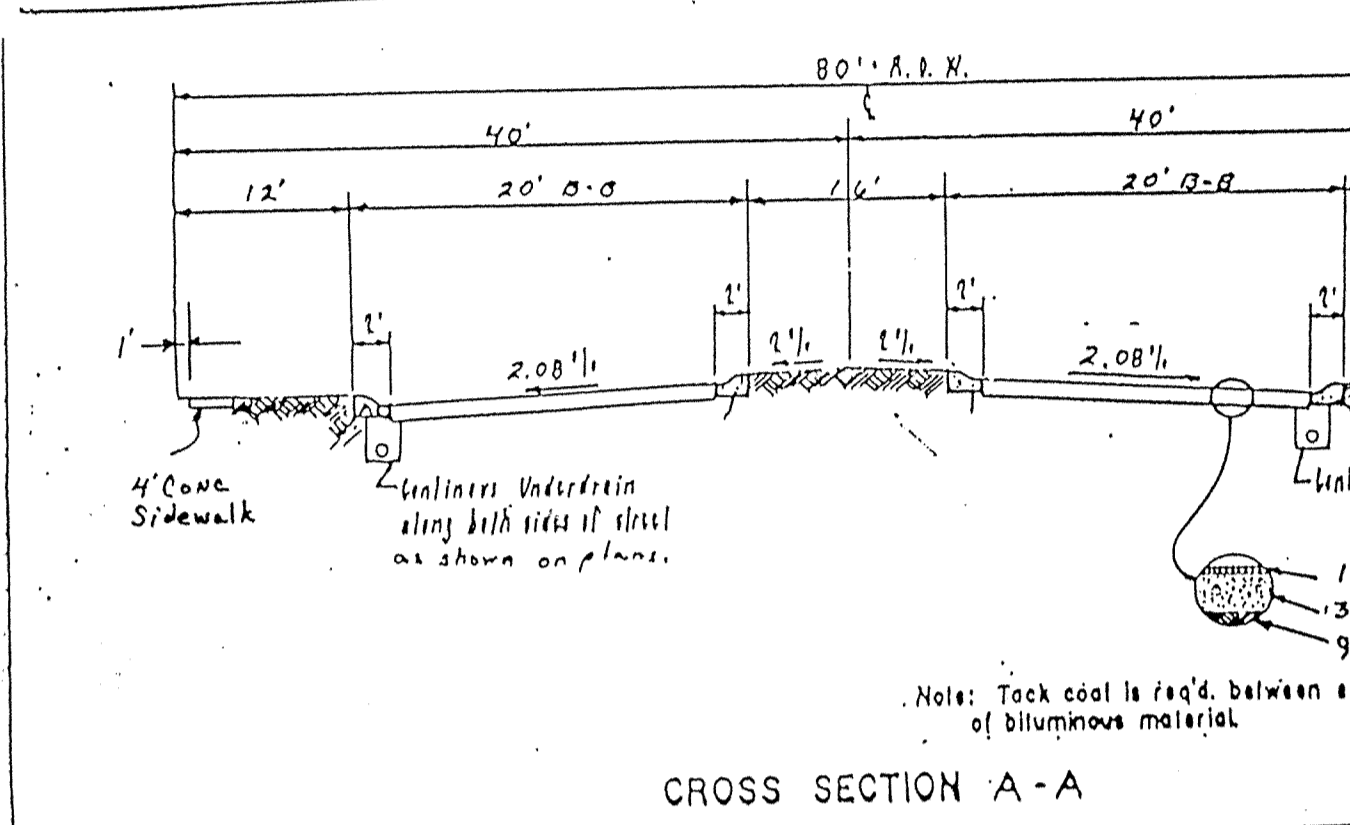
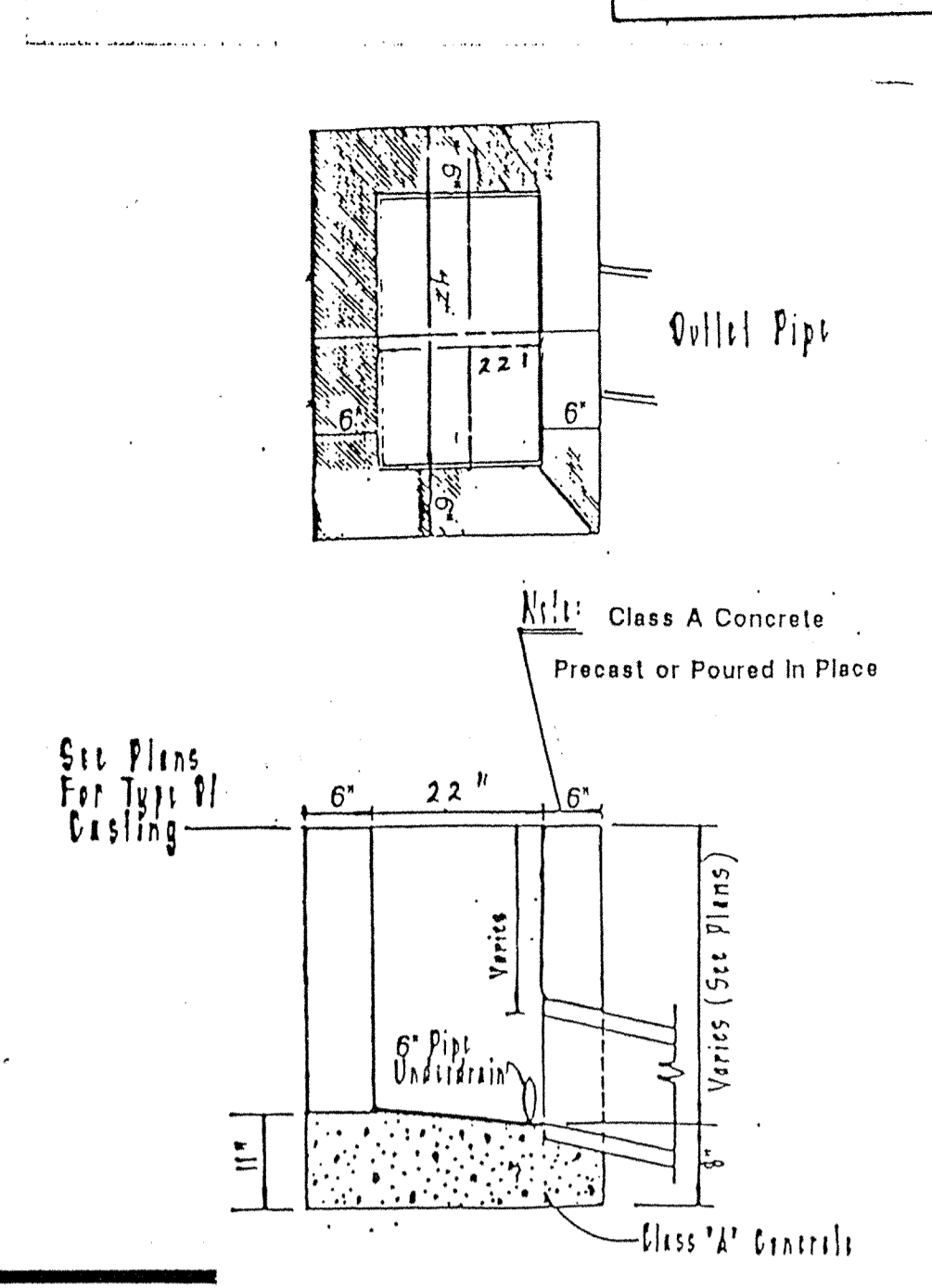
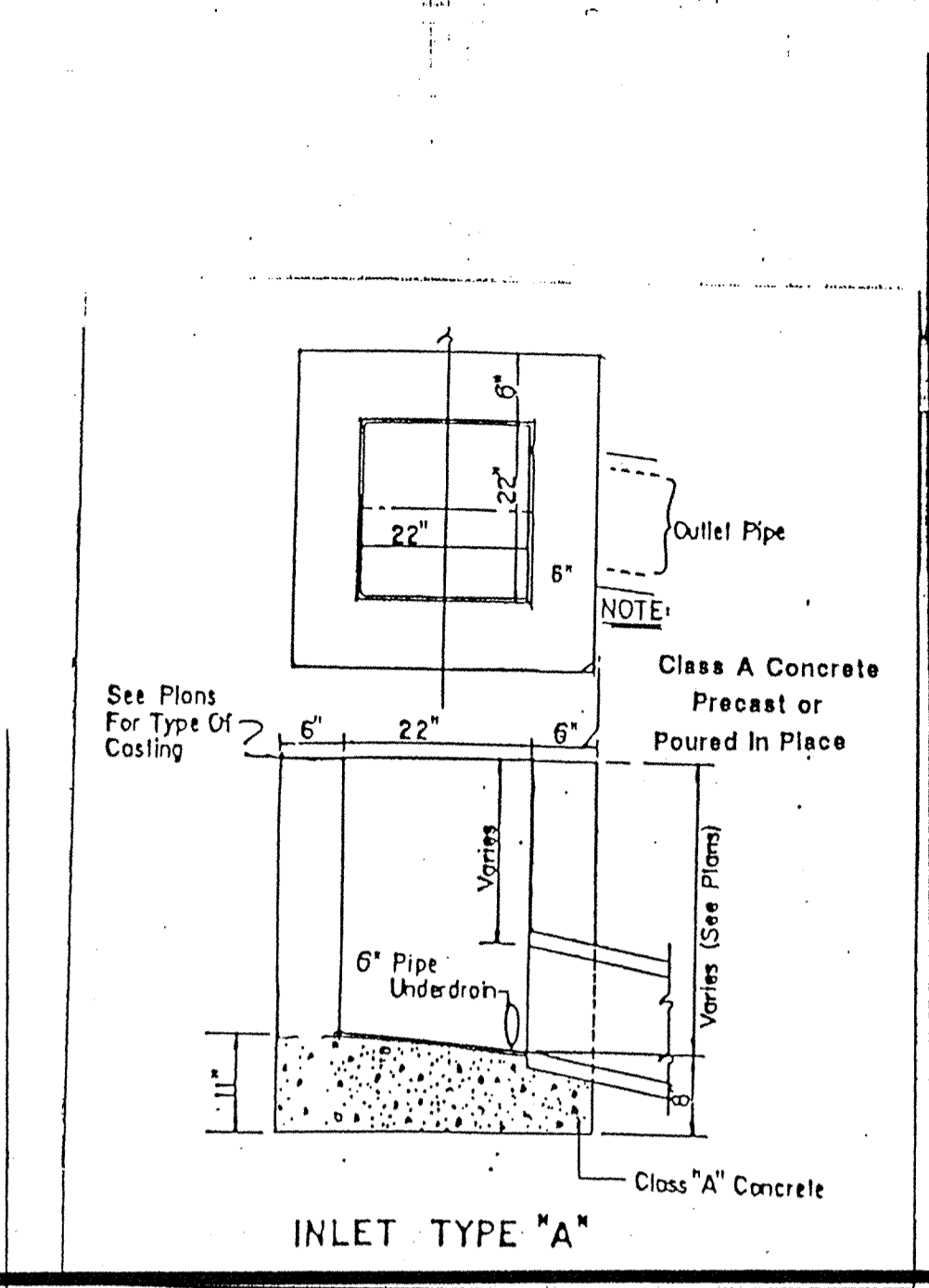
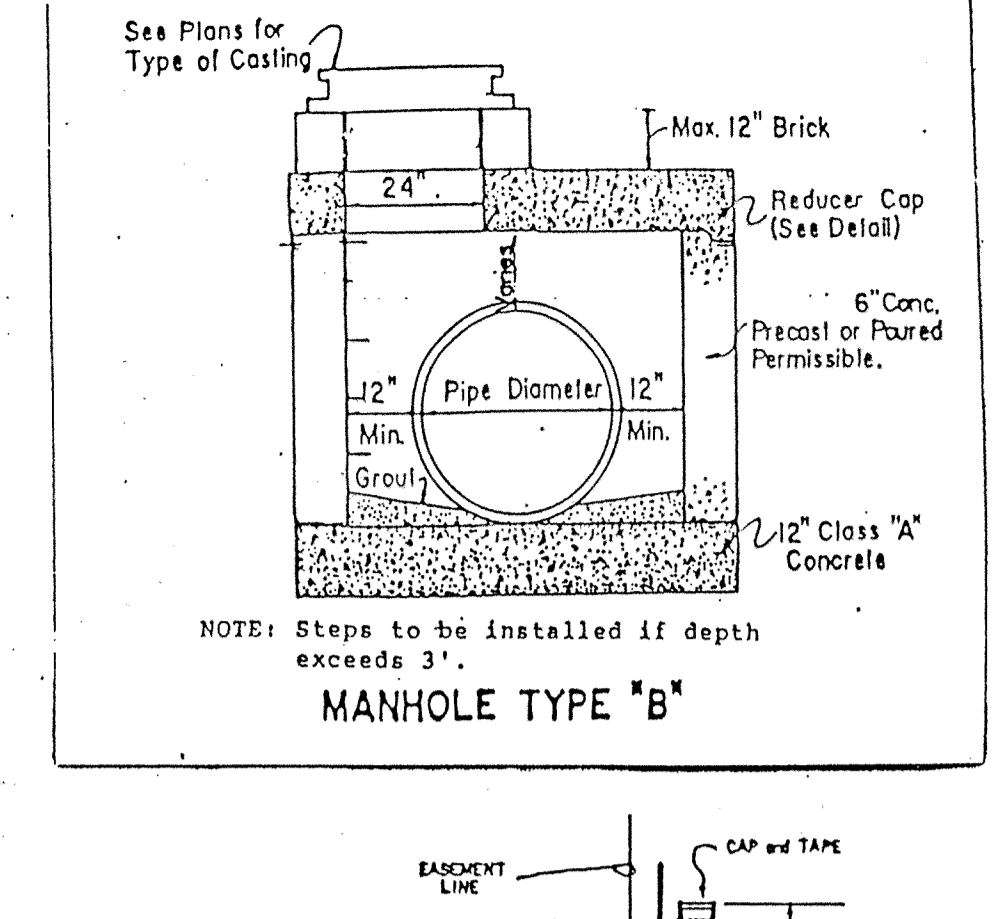
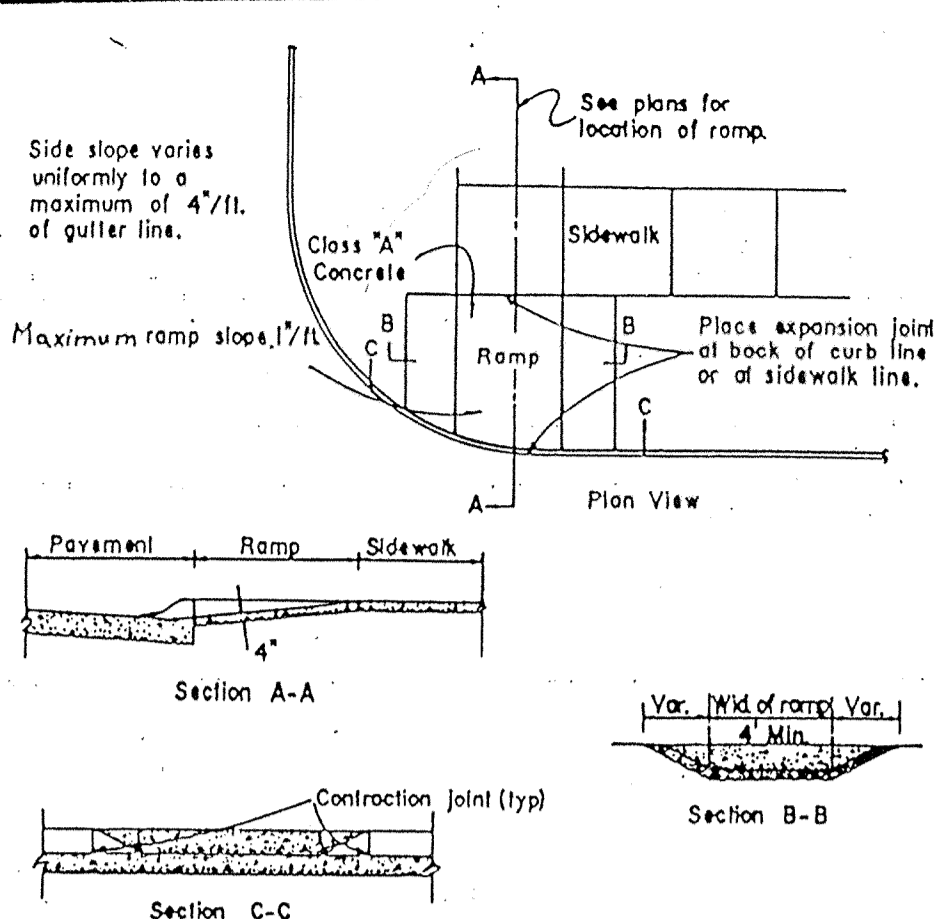
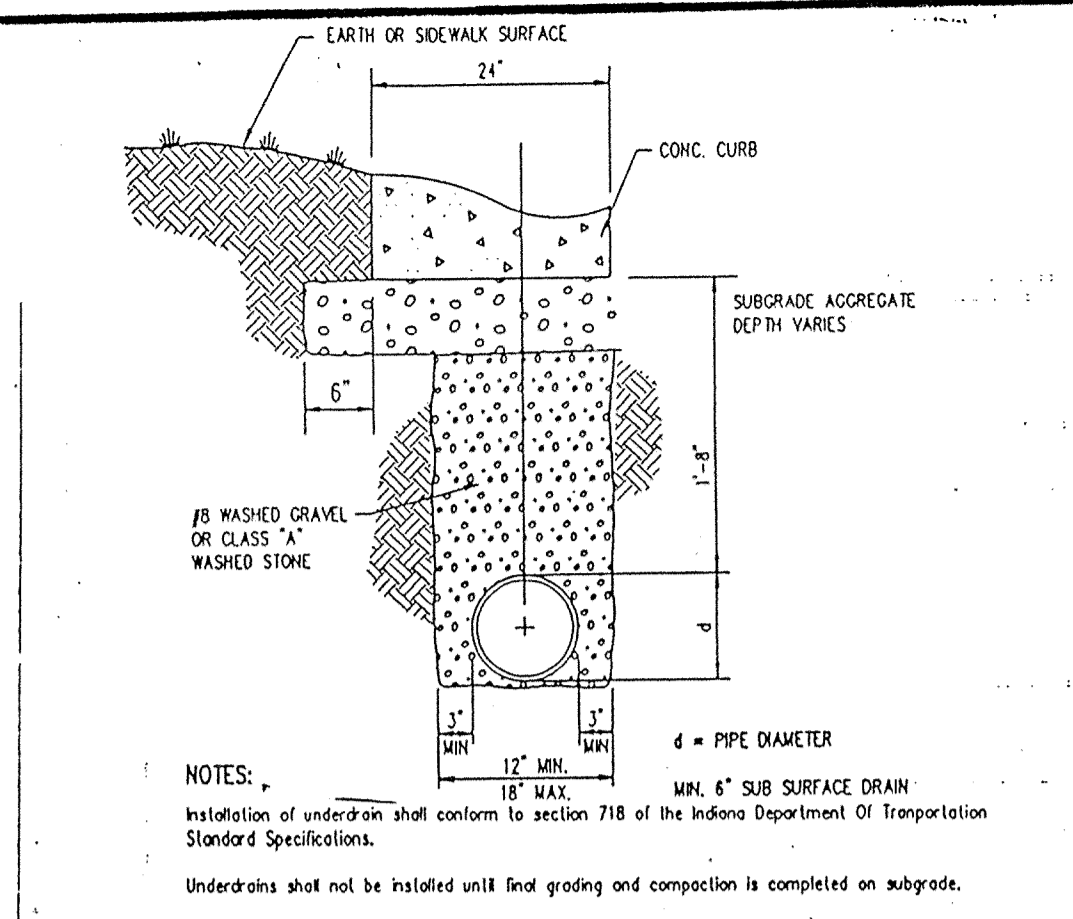
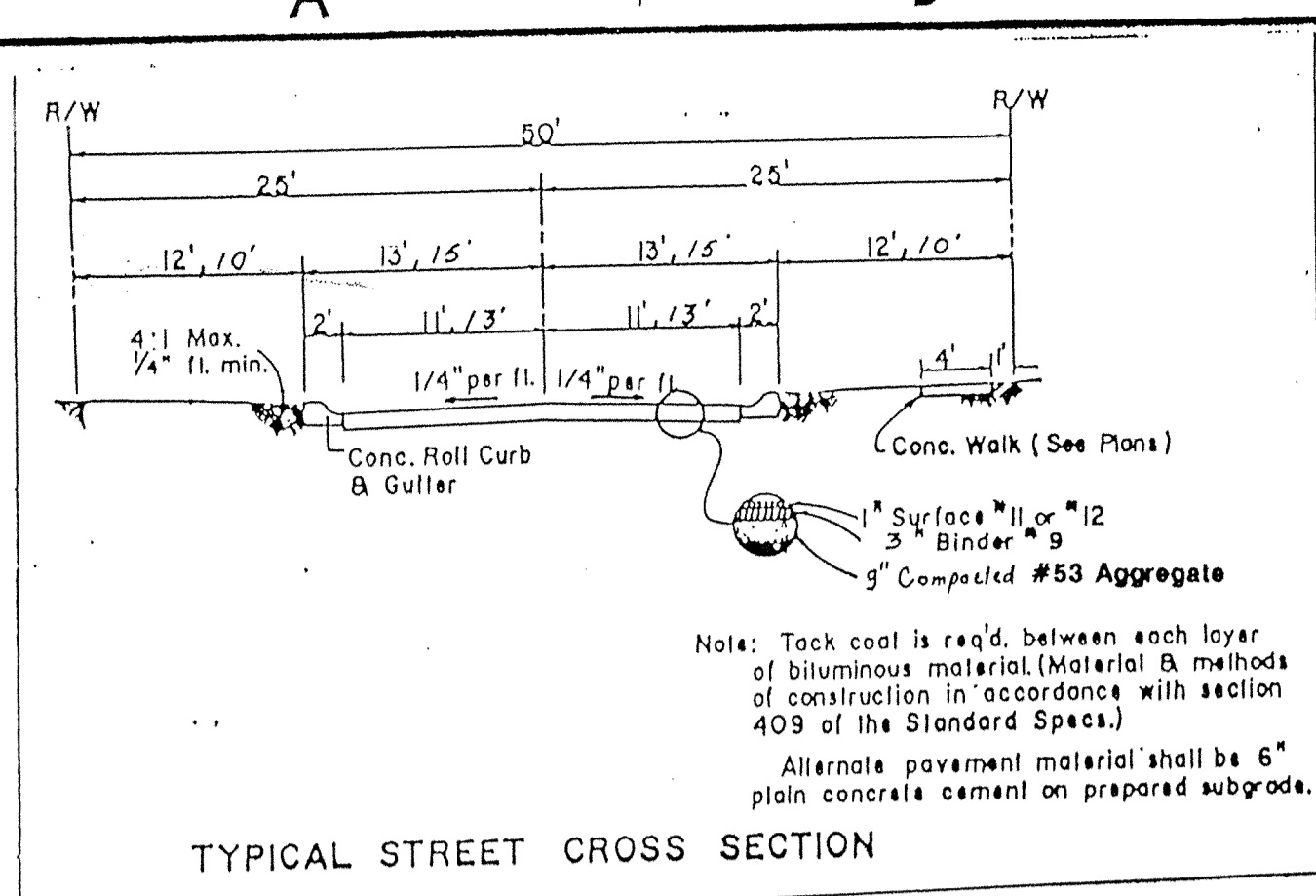


PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DGN	PRF
14-0522		7	12	5225TM8	5225TM8

7 of 12

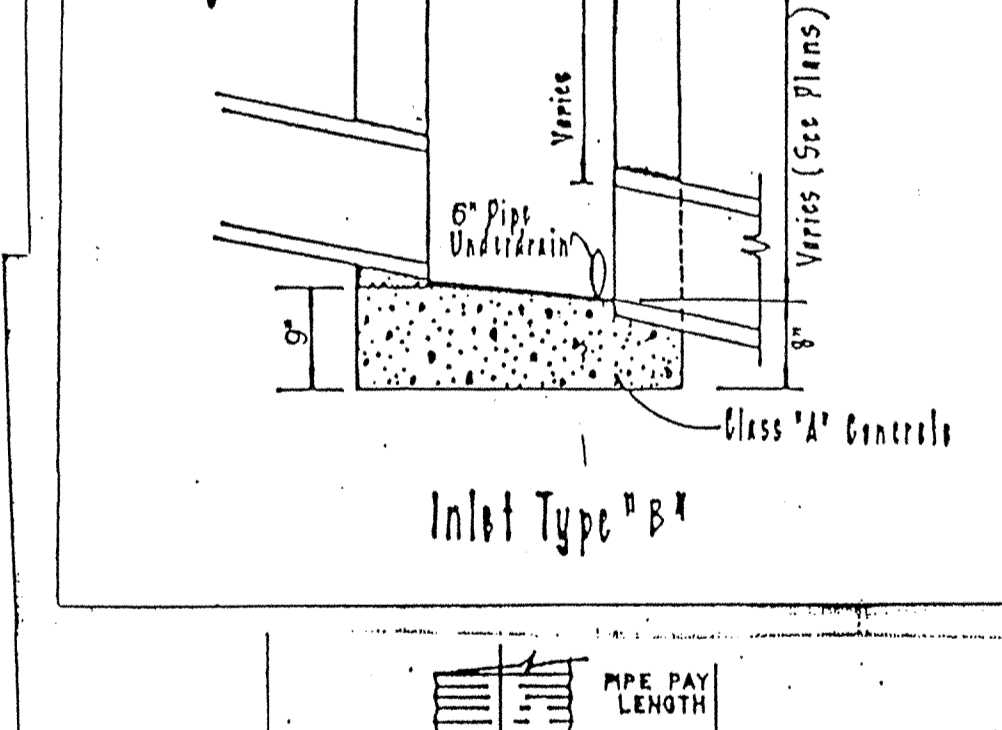
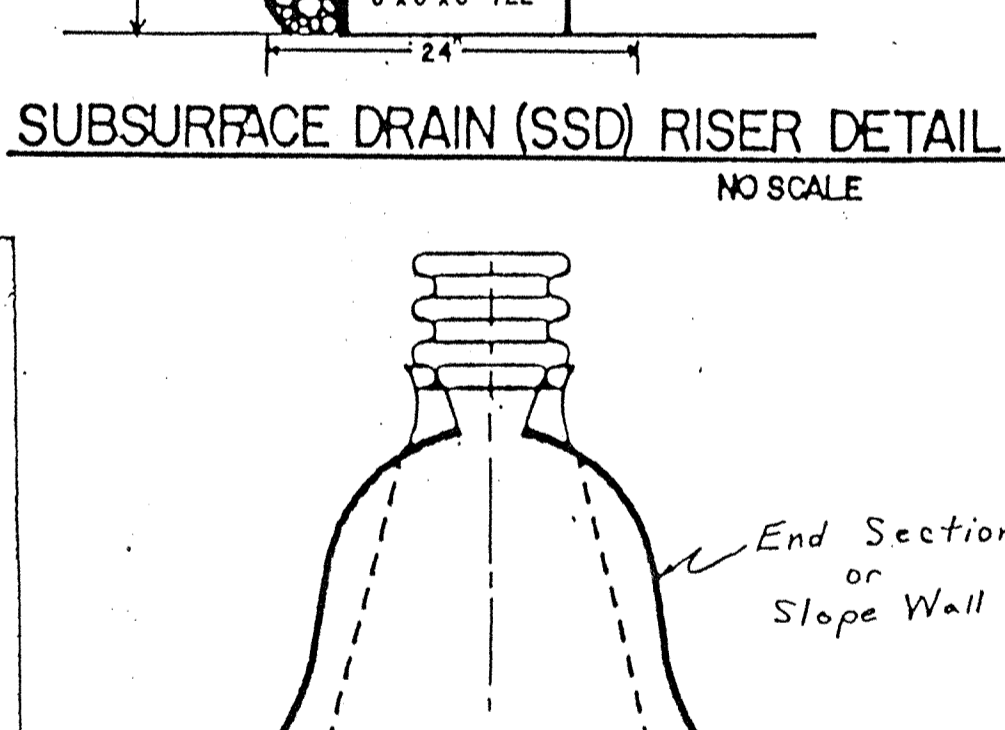
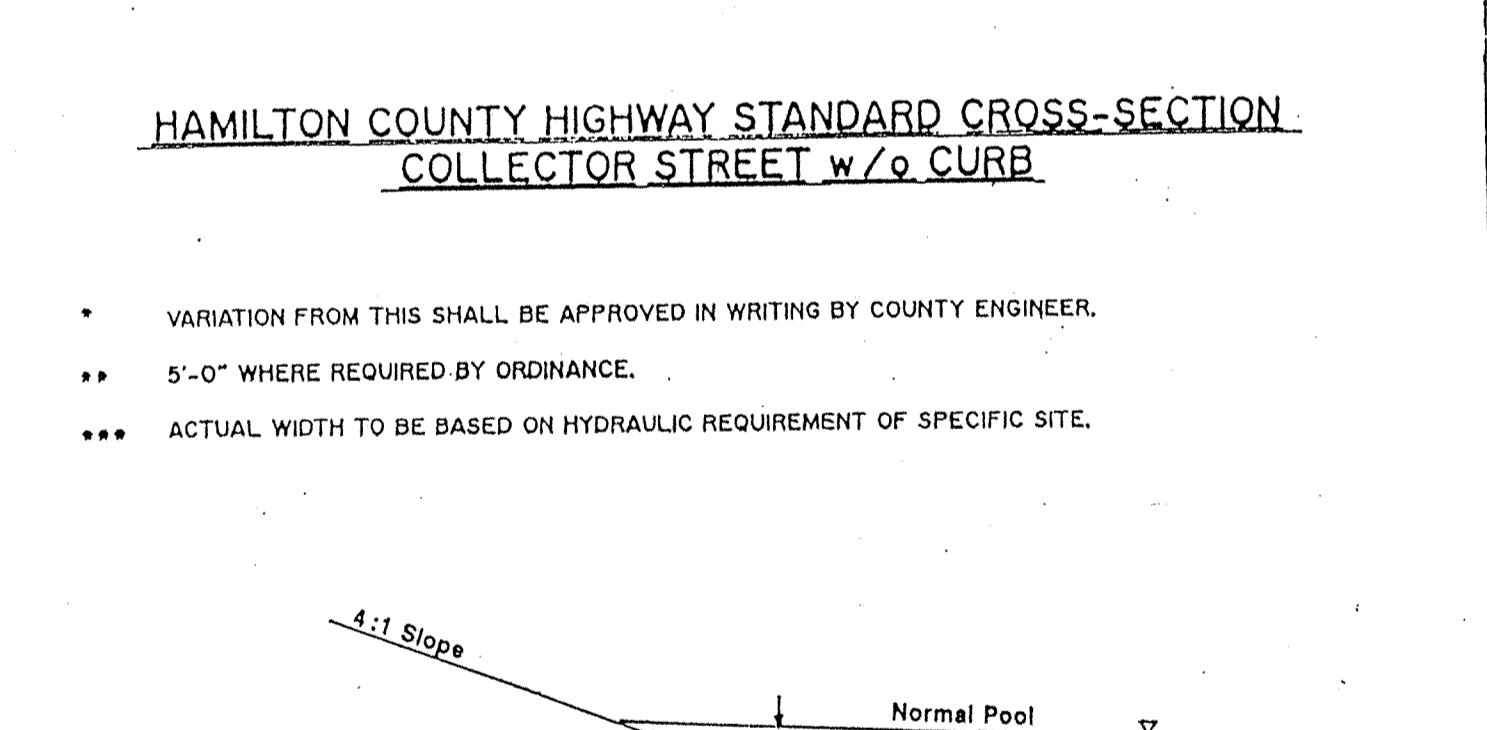
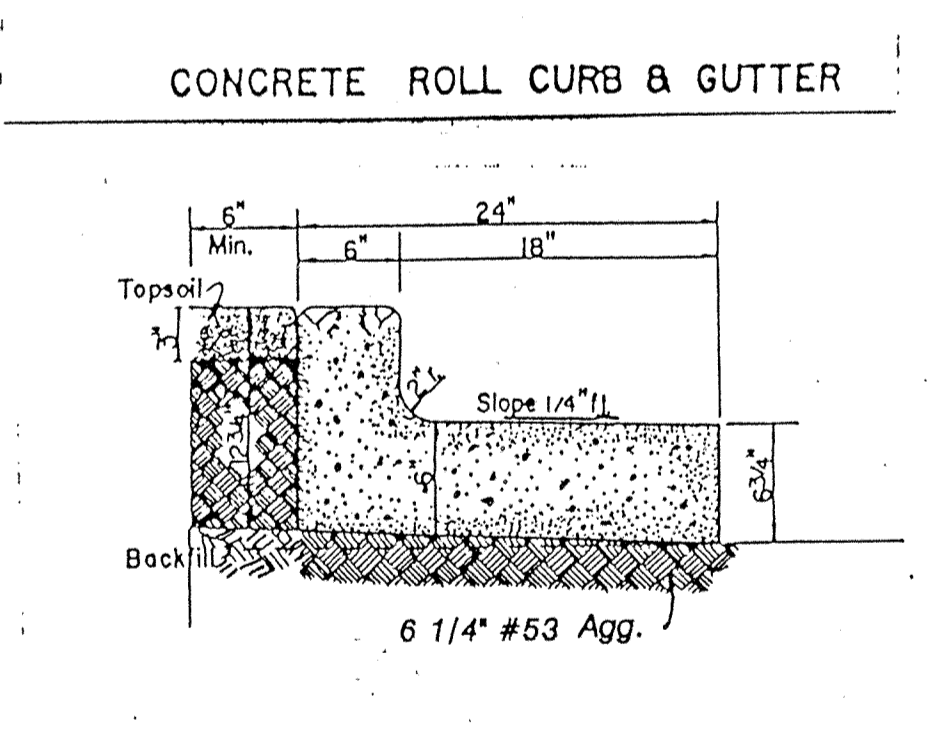
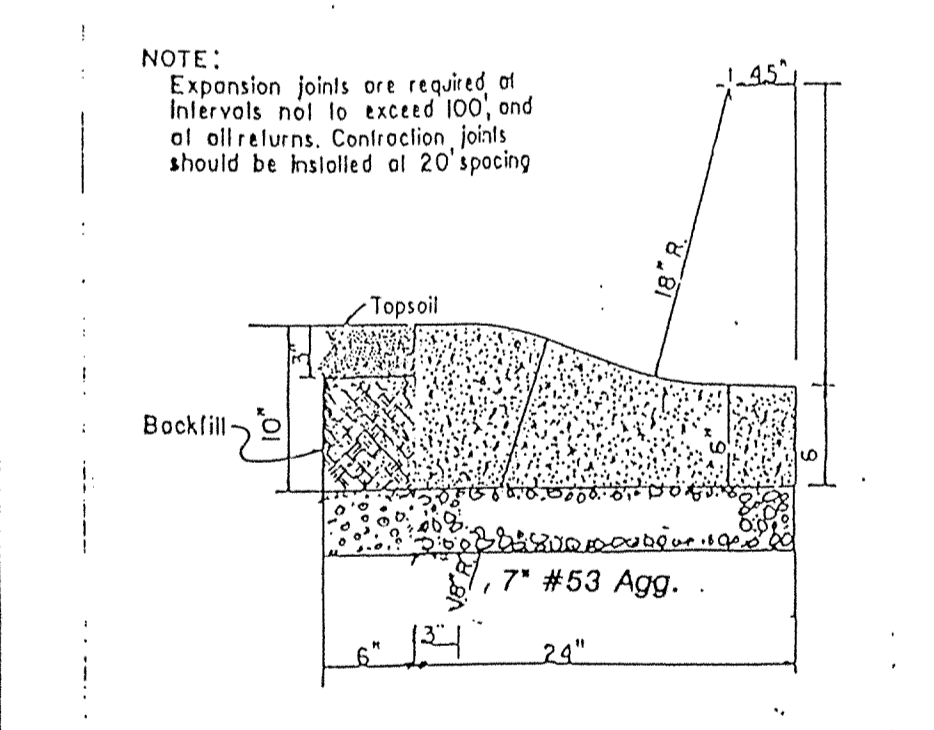
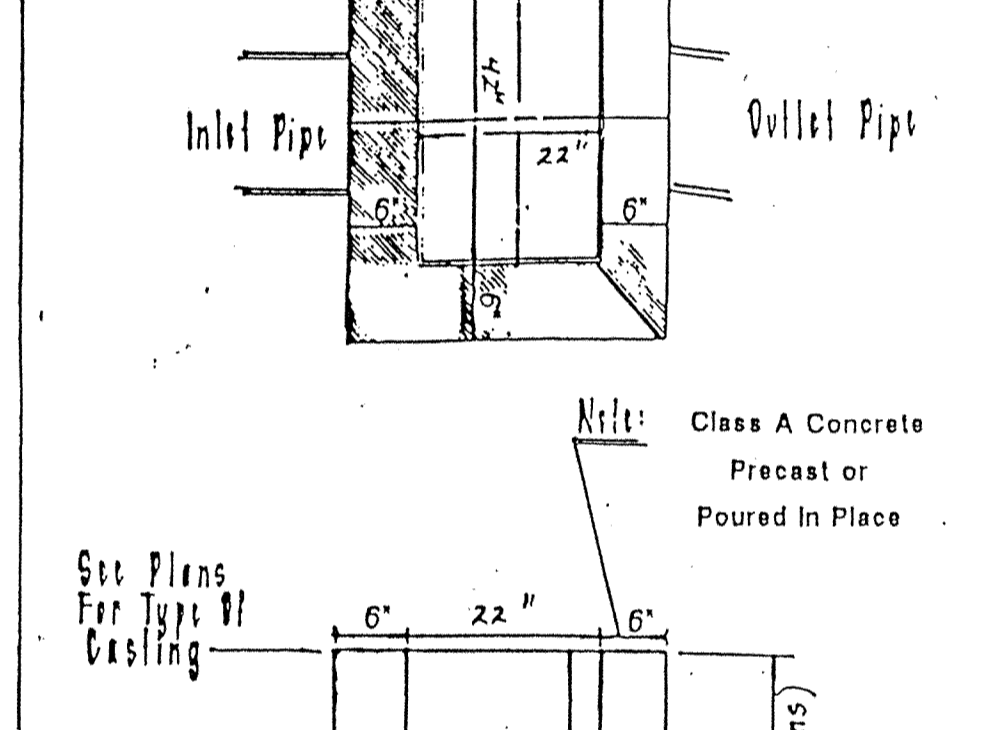
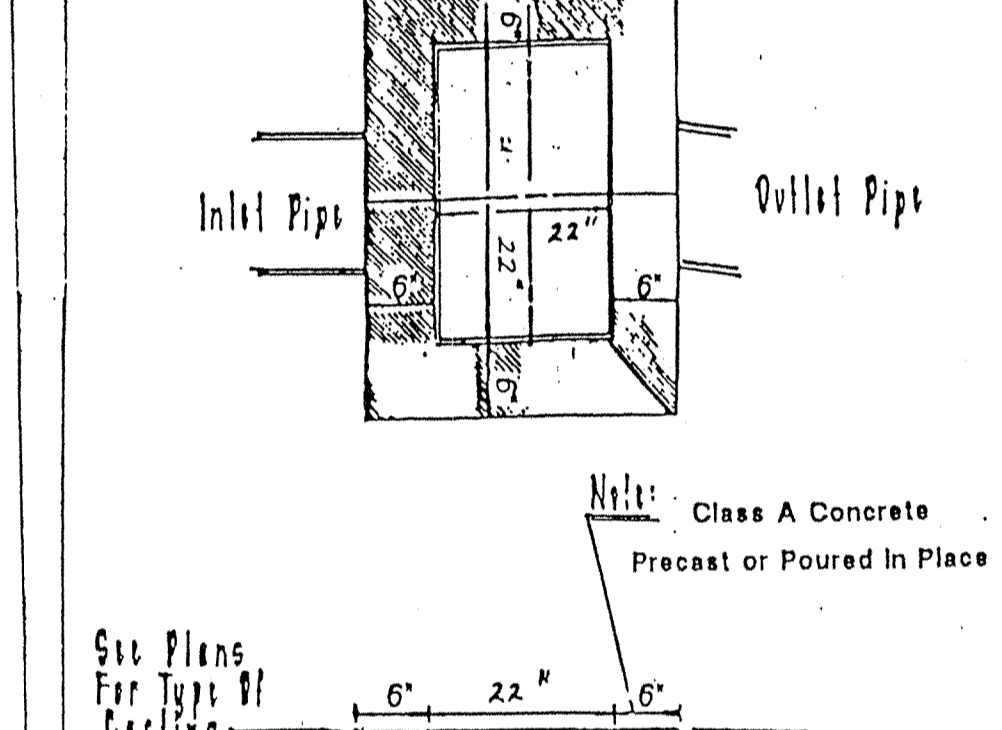
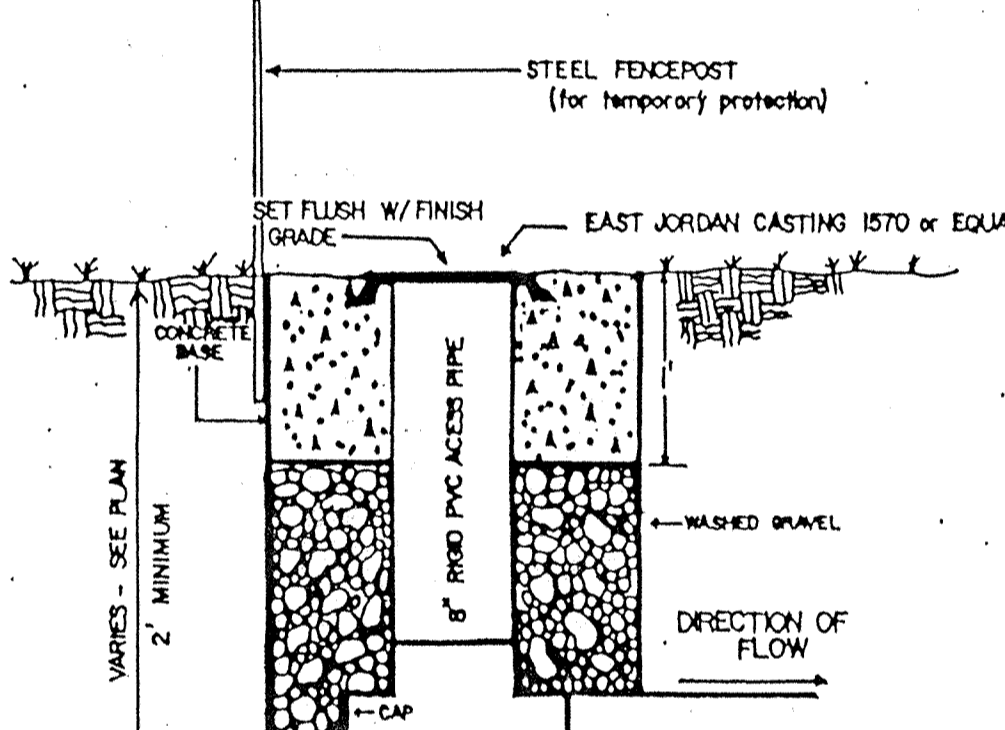
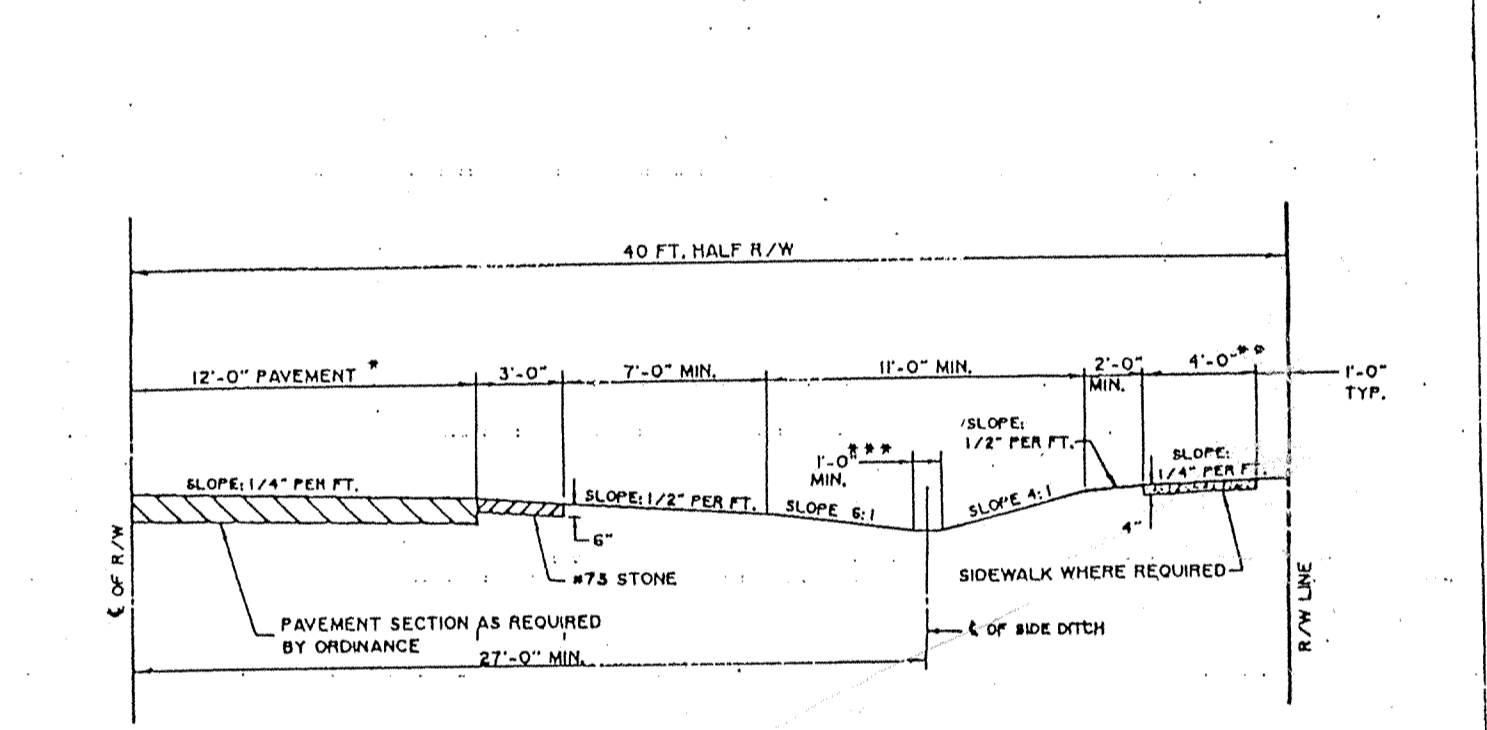
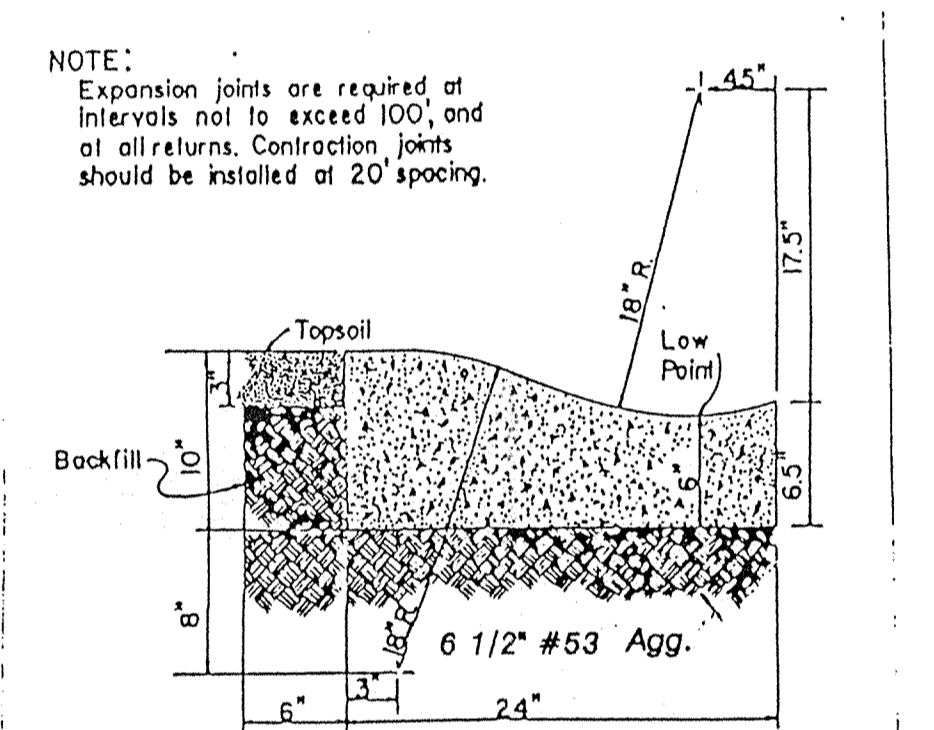
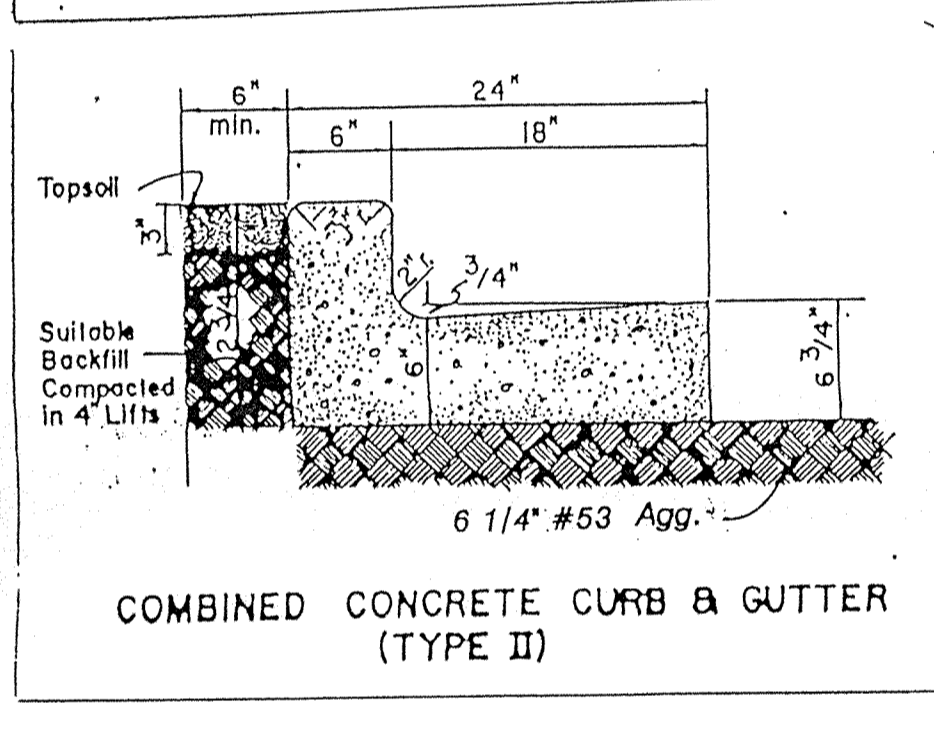
STORM PLAN & PROFILES



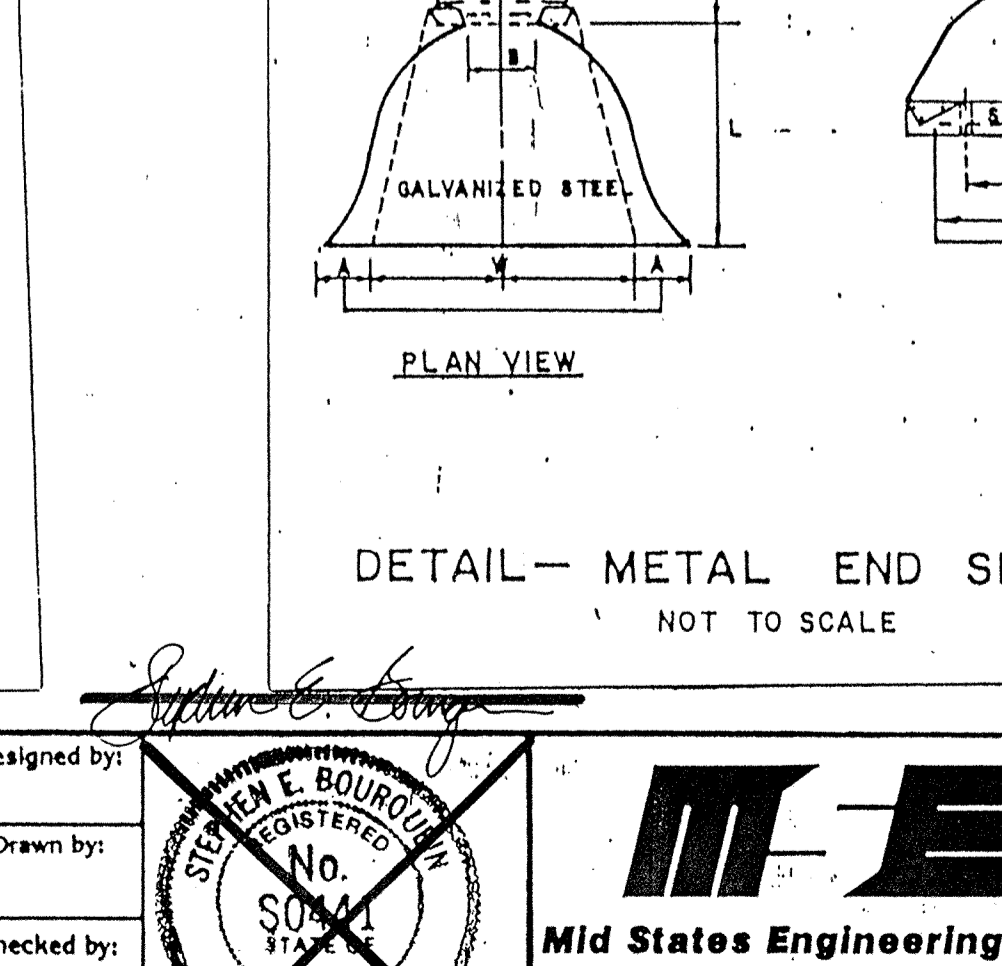
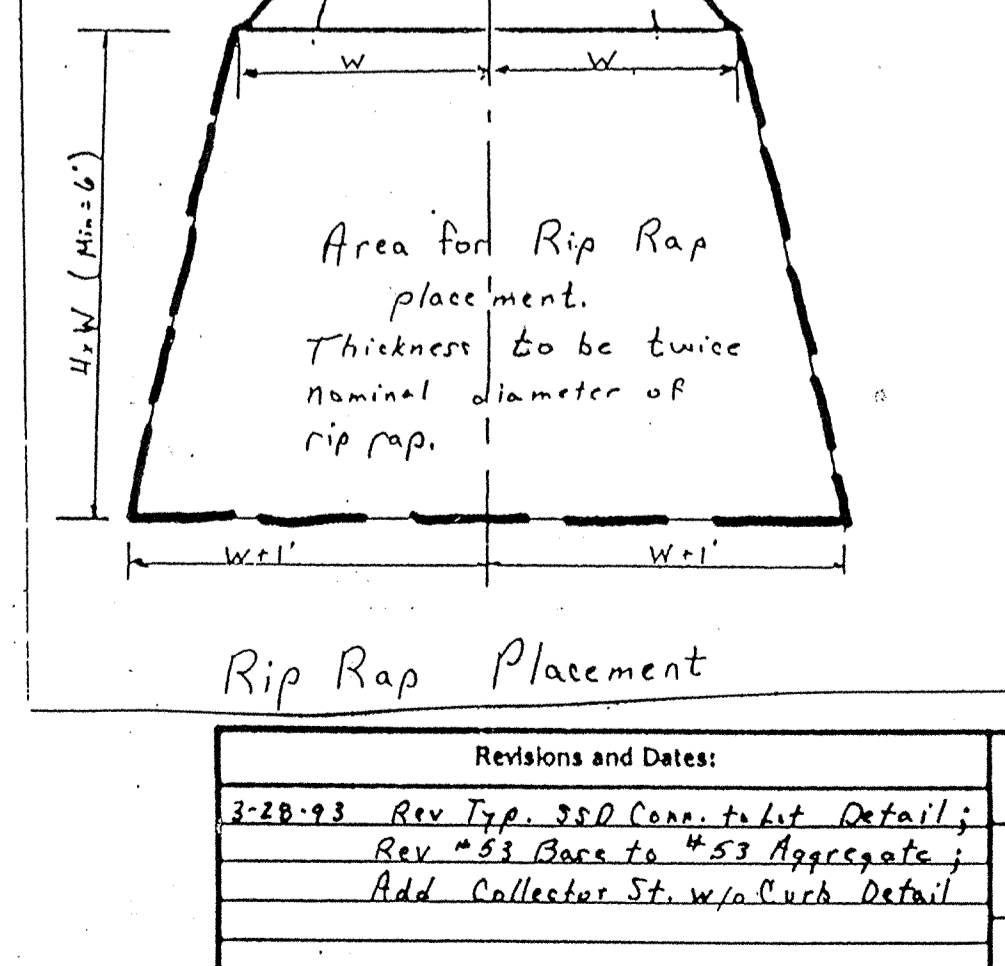
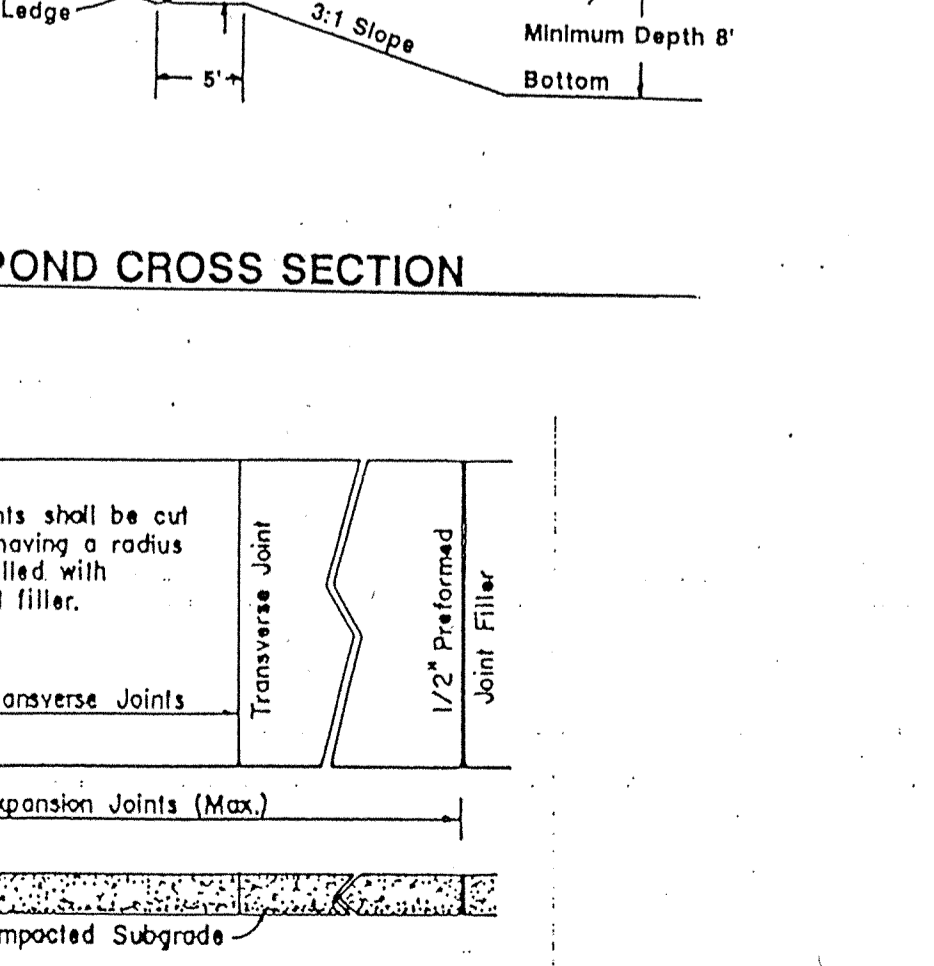
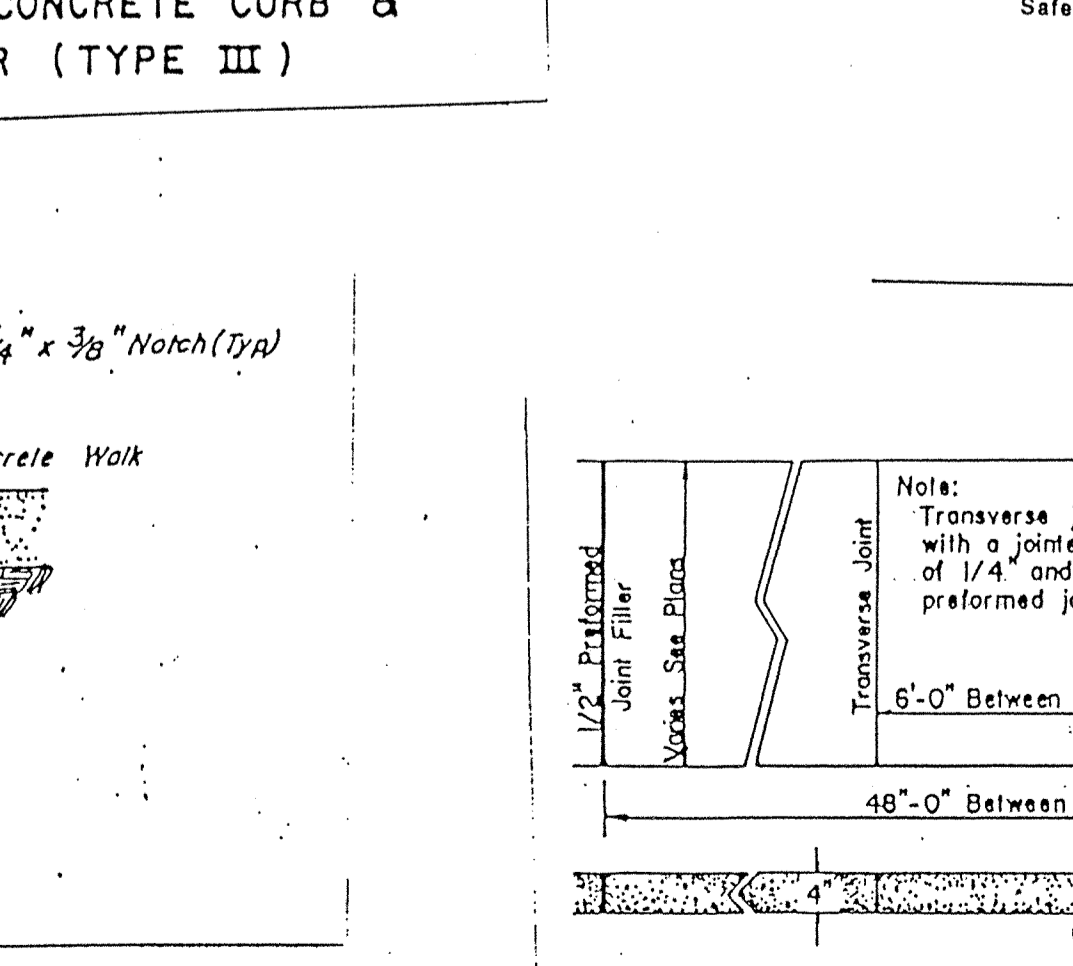
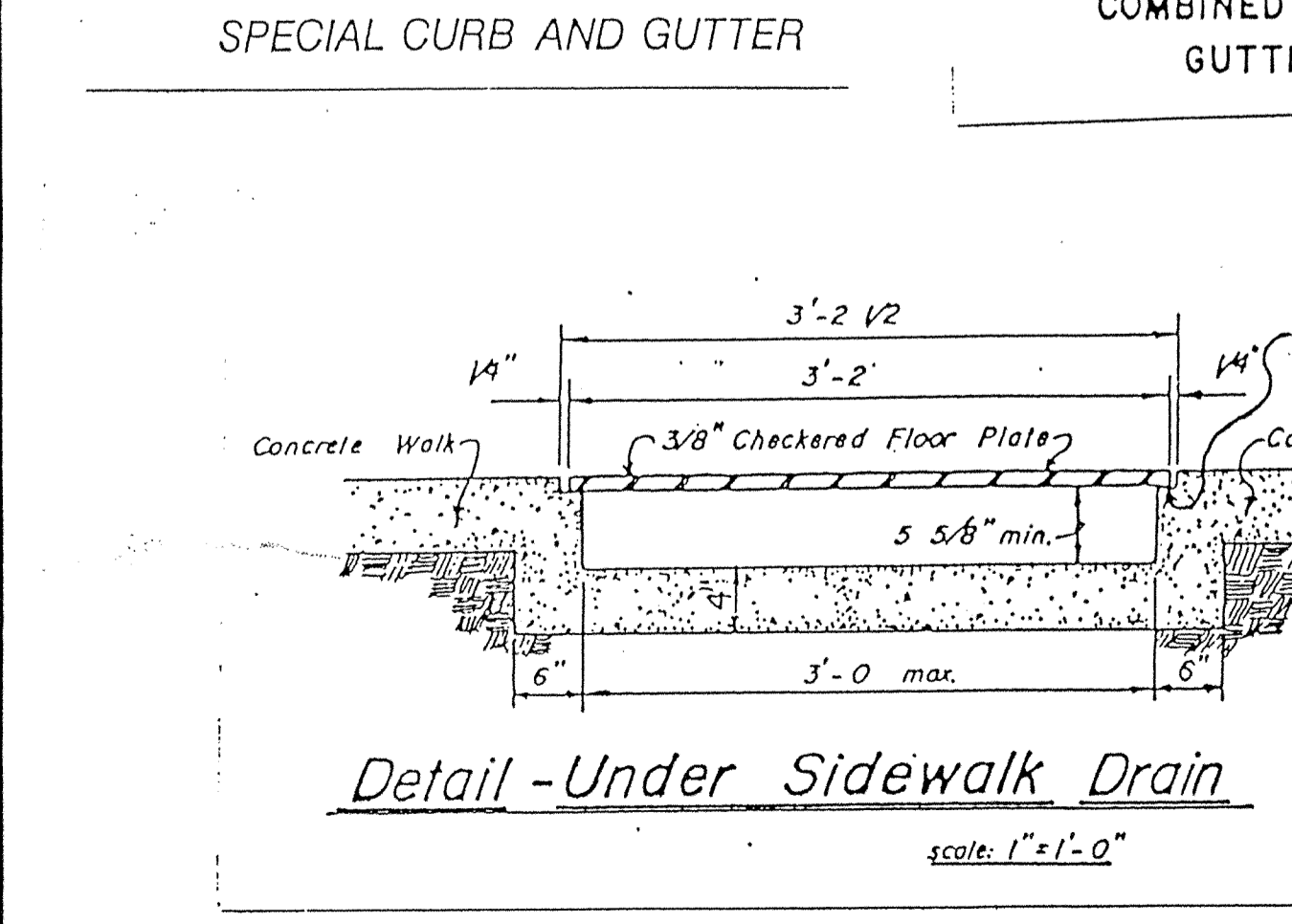


SANITARY AS-BUILTS

STORM AS-BUILTS



PIPE DIA.	DIMENSIONS				
	GA. 1" ±	"A" 1" ±	"B" (MAX) 1" ±	"C" 1" ±	"W" 2" ±
12"	16"	6"	6"	21"	24"
18"	16"	6"	6"	26"	30"
24"	16"	6"	6"	31"	36"
30"	16"	6"	6"	36"	42"
36"	16"	6"	6"	41"	48"
42"	16"	6"	6"	46"	54"
48"	16"	6"	6"	51"	60"
54"	16"	6"	6"	56"	66"



PIPE DIA.	DIMENSIONS				
	GA. 1" ±	"A" 1" ±	"B" (MAX) 1" ±	"C" 1" ±	"W" 2" ±
12"	16"	6"	6"	21"	24"
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30"	16"	6"	6"	36"	42"
36"	16"	6"	6"	41"	48"
42"	16"	6"	6"	46"	54"
48"	16"	6"	6"	51"	60"
54"	16"	6"	6"	56"	66"

Revisions and Dates:
3-28-93 Rev Typ. SSD Conn. to Lot Detail;
Rev #53 Bars to #53 Aggregate;
Add Collector St. w/o Curb Detail

Designed by: *Stephen E. Bourquin*
Drawn by: *Stephen E. Bourquin*
Checked by: *Stephen E. Bourquin*
Approved by: *Stephen E. Bourquin*

STEPHEN E. BOURQUIN
REGISTERED
No. 504
STATE OF INDIANA
PROFESSIONAL ENGINEER

BRUCE HAGEN
REGISTERED
No. 92299
STATE OF INDIANA
PROFESSIONAL ENGINEER

Mid States Engineering, Inc.
501 Congressional Blvd., Suite 110
Carmel, IN 46032
317-843-6080

FILED
DEC 14 1993
OFFICE OF THE COUNTY ENGINEER
DETAILS
12 OF 12

Scale: Job No.: 114-0522 (Sub No.): Sheet No.: 7 Of: 7