

# HIGHLAND COVE SUBDIVISION

SITUATED IN THE  
 EAST 1/2 OF THE SW 1/4 AND THE WEST 1/2 OF THE SE 1/4  
 OF SECTION 28, T-7-N, R-2-E  
 CITY OF RIDGELAND - MADISON COUNTY, MISSISSIPPI

MAYOR

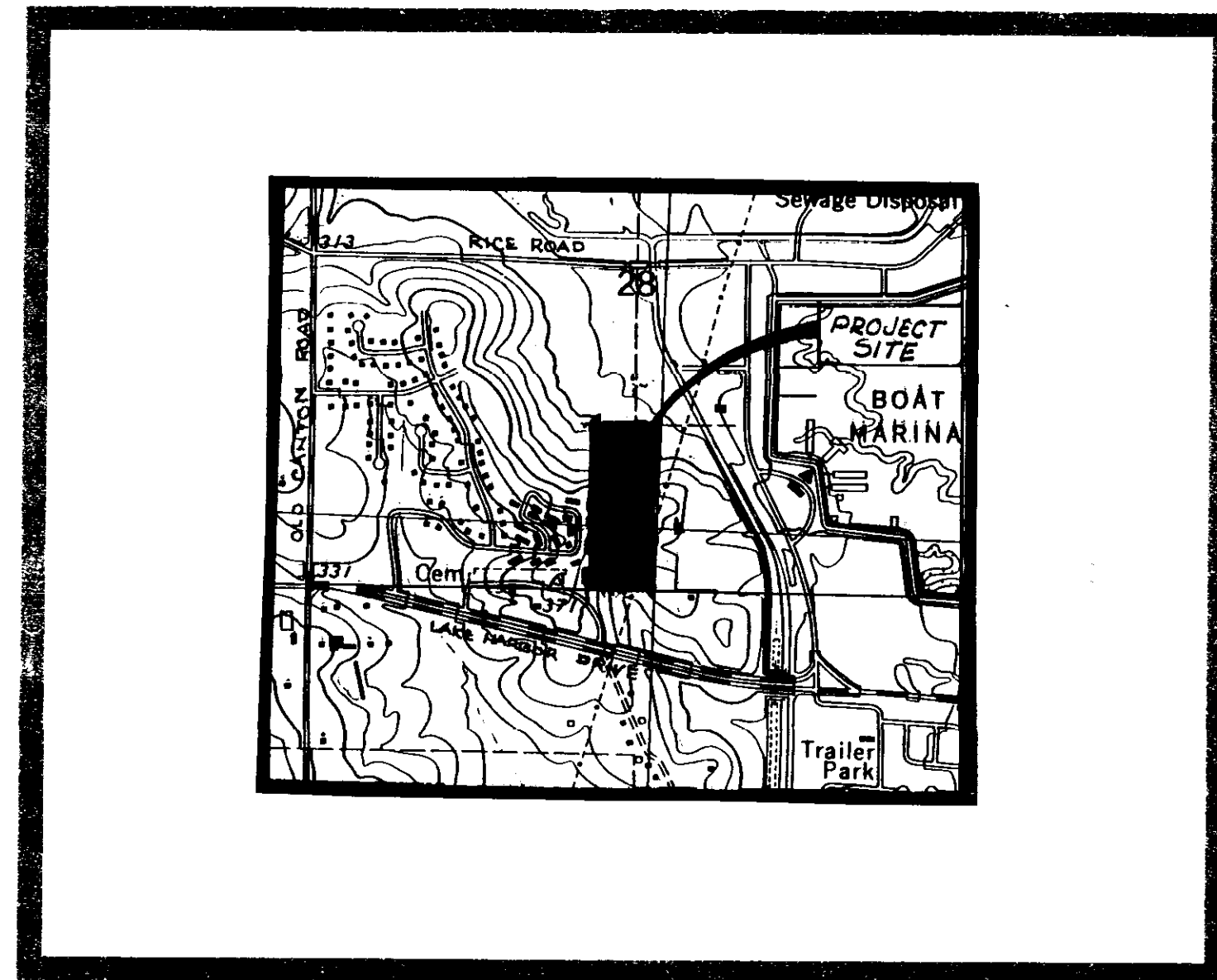
Gene F. McGee

CITY CLERK

Michael R. McPhearson

BOARD OF ALDERMAN

|                   |          |
|-------------------|----------|
| Harvey Carr, Jr.  | Ward 1   |
| Daryl Smith       | Ward 2   |
| Brian Barcellona  | Ward 3   |
| Al Bible          | Ward 4   |
| R. Joseph Barlow  | Ward 5   |
| Linda Davis       | Ward 6   |
| Chuck Kobert      | At-Large |
| Mayor Pro Tempore |          |



VICINITY MAP

SHEET INDEX

| SHEET NO. | TITLE  | REVISIONS |
|-----------|--|-----------|
| CS-1      | COVER SHEET  |           |
| SP-1      | SITE PLAN  | ★ Revised |
| HCS-2     | PLAN-PROFILE HIGHLAND COVE PLACE-STREET & DRAINAGE | ★         |
| HCS-3     | PLAN-PROFILE HIGHLAND COVE PLACE-WATER             | ★         |
| HCS-4     | PLAN-PROFILE HIGHLAND COVE PLACE-STREET & DRAINAGE | ★         |
| HCS-5     | PLAN-PROFILE HIGHLAND COVE PLACE-WATER             | ★         |
| HCS-6     | PLAN-PROFILE HIGHLAND COVE PLACE-STREET & DRAINAGE | ★         |
| HCS-7     | PLAN-PROFILE HIGHLAND COVE PLACE-WATER             | ★         |
| HCS-8     | PLAN-PROFILE CRAIG'S CIRCLE - STREET & DRAINAGE    | ★         |
| HCS-9     | PLAN-PROFILE CRAIG'S CIRCLE - WATER                | ★         |
| HCS-10    | PLAN-PROFILE CRAIG'S CIRCLE - STREET & DRAINAGE    | ★         |
| HCS-11    | PLAN-PROFILE CRAIG'S CIRCLE - WATER                | ★         |
| HCS-12    | PLAN-PROFILE CRAIG'S CIRCLE - STREET & DRAINAGE    | ★         |
| HCS-13    | PLAN-PROFILE CRAIG'S CIRCLE - WATER                | ★         |
| HCS-14    | PLAN-PROFILE CRAIG'S CIRCLE - WATER                | ★         |
| HCS-15    | BAYVIEW COVE/CAMBELL'S COVE STREET & DRAINAGE      | ★         |
| HCS-16    | BAYVIEW COVE/CAMBELL'S COVE STREET & DRAINAGE      | ★         |
| SS-1      | PLAN-PROFILE HIGHLAND COVE SUBD. SANITARY SEWER    | ★         |
| SS-2      | PLAN-PROFILE HIGHLAND COVE SUBD. SANITARY SEWER    | ★         |
| SS-3      | PLAN-PROFILE HIGHLAND COVE SUBD. SANITARY SEWER    | ★         |
| SS-4      | PLAN-PROFILE HIGHLAND COVE SUBD. SANITARY SEWER    | ★         |
| SS-5      | PLAN-PROFILE HIGHLAND COVE SUBD. SANITARY SEWER    | ★         |
| SS-6      | PLAN-PROFILE HIGHLAND COVE SUBD. SANITARY SEWER    | ★         |
| 1         | CITY OF RIDGELAND STANDARD DETAILS                 |           |
| 2         | CITY OF RIDGELAND STANDARD DETAILS                 |           |
| 3         | CITY OF RIDGELAND STANDARD DETAILS                 |           |
| 4         | CITY OF RIDGELAND STANDARD DETAILS                 |           |
| 5         | CITY OF RIDGELAND STANDARD DETAILS                 |           |
| 6         | SHEET FALL IN PHASE II & PHASE III                 |           |

MAY 15, 1995

PWP-00823

|  |   |         |   |   |                      |                       |
|--|---|---------|---|---|----------------------|-----------------------|
| REVISIONS:<br>6-16-95 - Revised City Review Plans<br>7-28-95 - Revised Health Dept. Review | SCALE: 1/4" = 1'-0"<br>DATE: 04-26-95<br>DRAWN BY: C.W.M.<br>CHECKED BY: B.S. | CLIENT: | APPROVED:<br><br>CHARLES W. (BILL) McLEOD, P.E.<br>CONSULTING CIVIL ENGINEER<br>306 N. Woodlily<br>Ridgeland, Mississippi 39157<br>Office Tel. (601) 865-9295<br>Home Tel. (601) 962-4218 | A RESIDENTIAL SUBDIVISION<br>OFF COPPER RIDGE DRIVE WEST OF<br>THE ROSS BARNETT RESERVOIR | SEAL:<br><br>5-15-95 | SHEET NO. HCS-1<br>27 |
|--|---|---------|---|---|----------------------|-----------------------|

# HIGHLAND COVE SUBDIVISION

SECTION 28, T-7-N, R-2-E, MADISON COUNTY, MISSISSIPPI  
SITUATED IN THE E 1/2 OF THE SW 1/4 AND THE W 1/2 OF THE SE 1/4

REFERENCE STANDARD HANDBOOK FOR CIVIL ENGINEERS, THIRD EDITION  
BY ROBERT S. MERRILL, EDITOR  
MCGRAW HILL PUBLISHER

SECTION 21, Pg. 86-90

NATIONAL FORMULA  $Q = CA$   
 $Q$  = Peak Discharge, ft<sup>3</sup>/s  
 $C$  = runoff coefficient = % of rain that appears as direct runoff  
 $A$  = rainfall intensity, in/h  
 $AREA$  = drainage area, sq. ft.  
**STEEL FORMULA** - runoff intensity  
 $Q = 1.486 A I$   
 $Q$  = runoff intensity  
 $A$  = area, sq. ft.  
 $I$  = rainfall intensity, in/h  
 $K$  = coefficient, depending on conditions that affect runoff intensity

$F$  = frequency of occurrence of rainfall, years  
 $D$  = duration of storm, min = time of concentration  
**TABLE 11-17** (Factor for Mississippi River Basin)

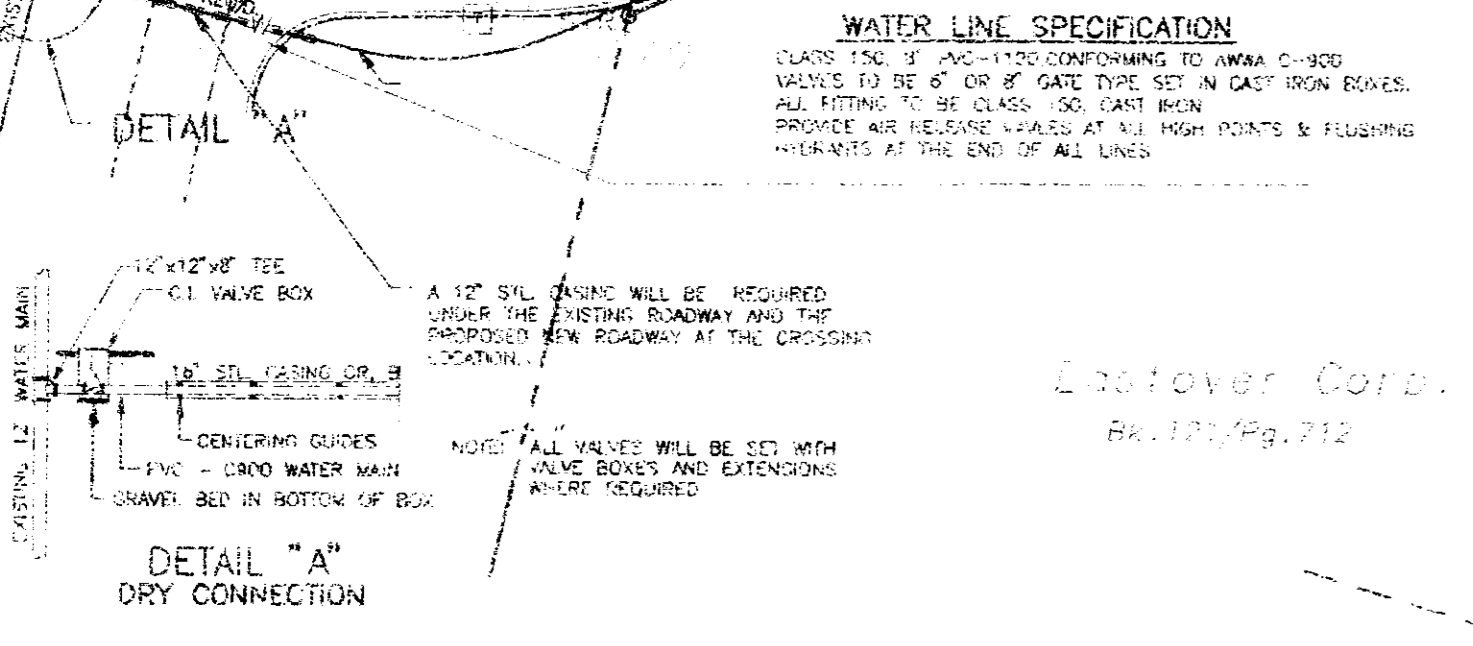
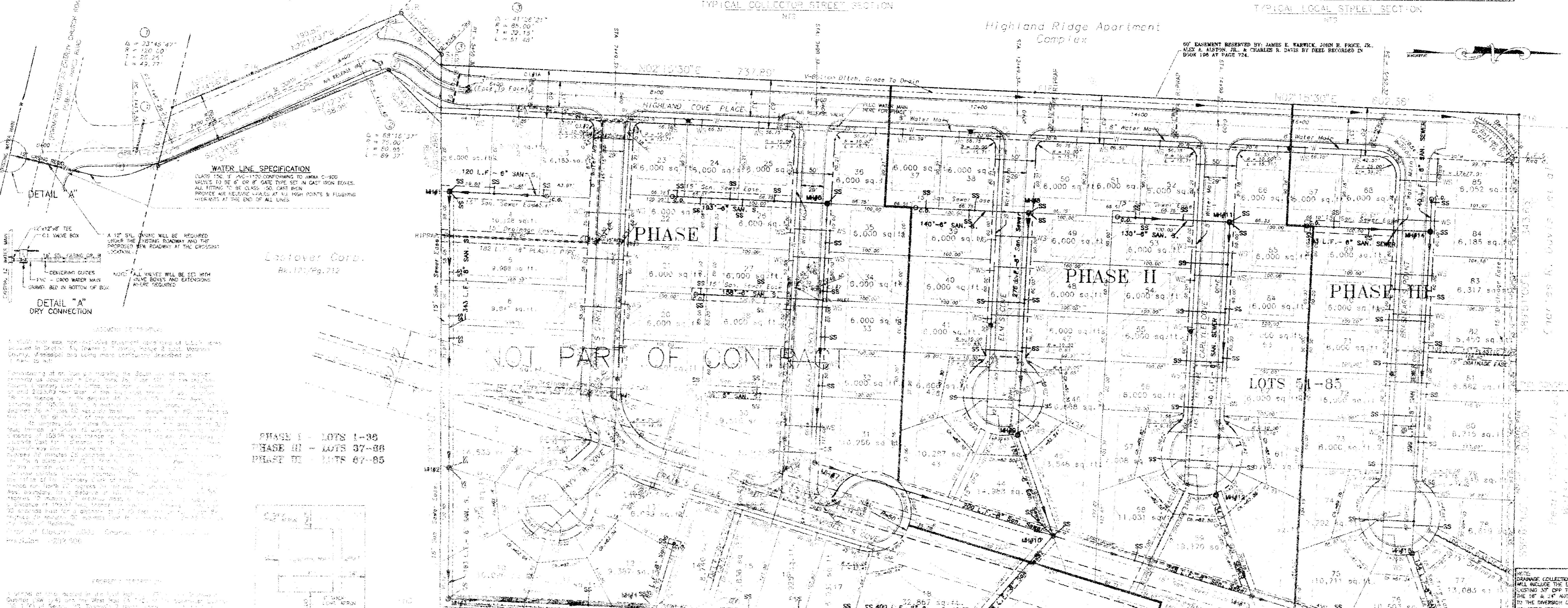
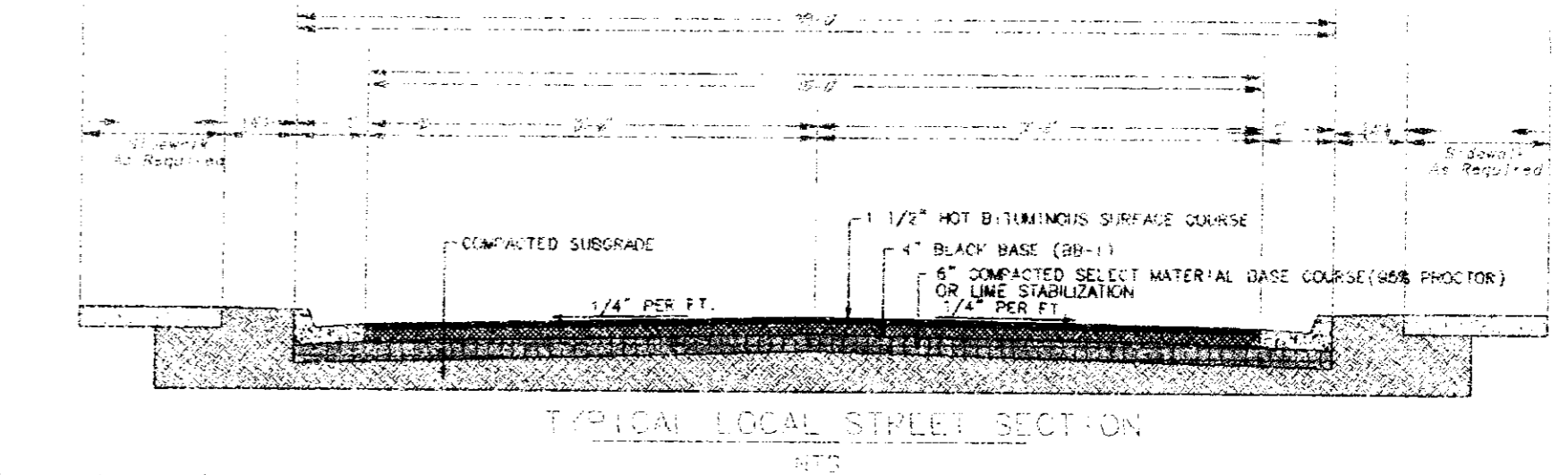
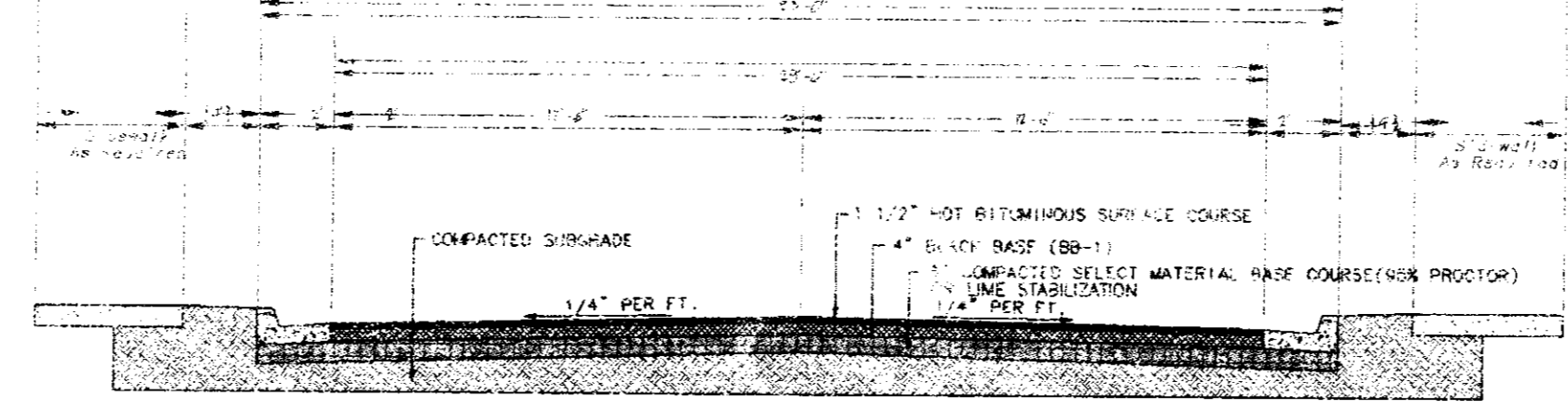
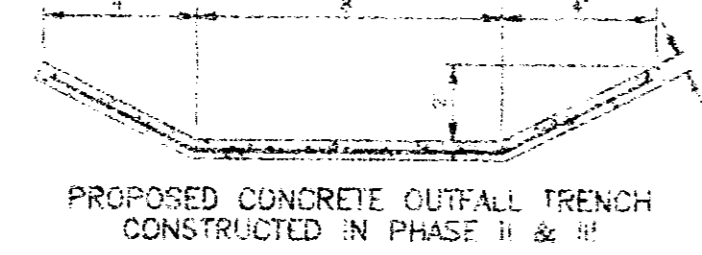
| Frequency, F | Coefficient, K | Mississippi River Basin |
|--------------|----------------|-------------------------|
| 10           | 0.50           | 0.50                    |
| 20           | 0.45           | 0.45                    |
| 30           | 0.42           | 0.42                    |
| 40           | 0.40           | 0.40                    |
| 50           | 0.38           | 0.38                    |
| 75           | 0.35           | 0.35                    |
| 100          | 0.33           | 0.33                    |

NOTE:  
 CAPACITY OF PIPES  
 15" Ø 1.00 CFS @ 4.5 CFS  
 18" Ø 1.50 CFS @ 15.00 CFS  
 21" Ø 2.25 CFS @ 18.00 CFS  
 24" Ø 3.00 CFS @ 31.50 CFS  
 30" Ø 4.50 CFS @ 31.50 CFS

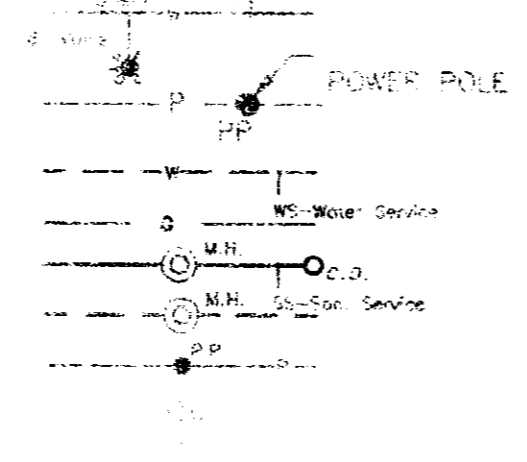
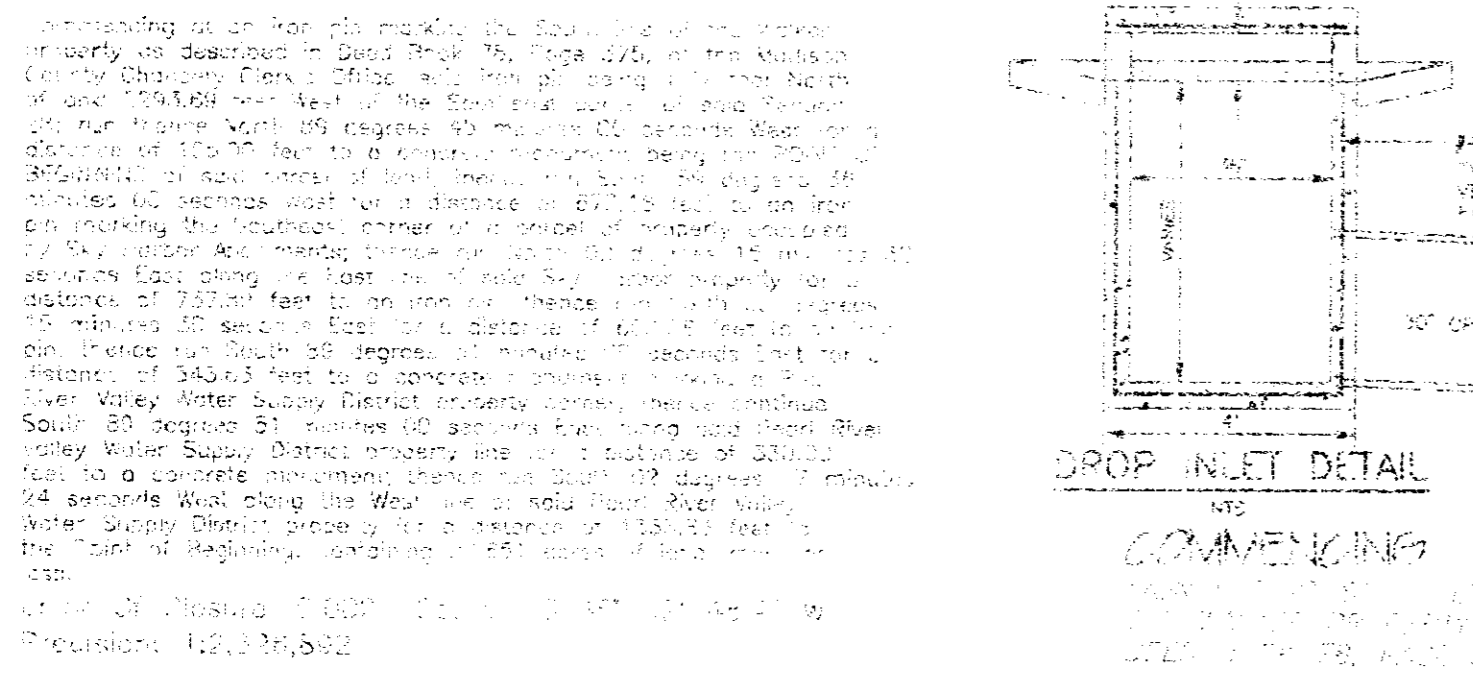
VALVE FOR DISCHARGE TAKEN FROM MANHOLES FOR SOLUTIONS OF MANHOLES FORMULA

$Q = 0.1486 A I$   
 $Q = 0.34 A I$   
 $Q = 31.54 CFS$

1" CURB INLET DRAIN = 350/50 = 4.64 IN/HR



PHASE I - LOTS 1-36  
 PHASE II - LOTS 37-86  
 PHASE III - LOTS 87-85



MAPECH, INC. certifies that this plan is a correct representation of the conditions as they exist on this date and that there are no encroachments of buildings or improvements except as noted on this plan.

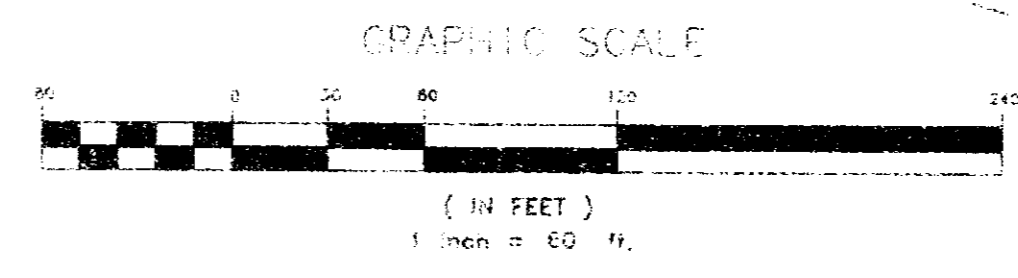
MAPECH, INC. Reference No. \_\_\_\_\_

This parcel is located in Flood Zone \_\_\_\_\_ per Community Panel Number \_\_\_\_\_

Date: APRIL 15, 1996

DEED: Book \_\_\_\_\_ Page \_\_\_\_\_  
 COVENANTS: Book \_\_\_\_\_ Page \_\_\_\_\_  
 PLAT BOOK: \_\_\_\_\_ Page \_\_\_\_\_  
 PREPARED BY: \_\_\_\_\_  
 JACKSON, MISSISSIPPI

SURVEY CLASS: \_\_\_\_\_ This Property Zoned R-4



Owner:  
 E & A Associates, Inc.  
 104 Kristin Hill  
 Madison, Mississippi 39110

AS-BUILT

# HIGHLAND COVE SUBDIVISION

SECTION 28, T-7-N, R-2-E, MADISON COUNTY, MISSISSIPPI  
SITUATED IN THE E 1/2 OF THE SW 1/4 AND THE W 1/2 OF THE SE 1/4

REFER TO STANDARD HANDBOOK FOR CIVIL ENGINEERS, THIRD EDITION, FREDERICK S. MERRITT, CHIEF EDITOR, MCGRAW-HILL, PUBLISHERS

DESIGN BASED ON 25 YEAR FLOOD FOR DURATION OF 25 MINUTES:  
 $V = 2.22 \times 3.34 = 7.42$  IN/HR  
 $V = 20.33$

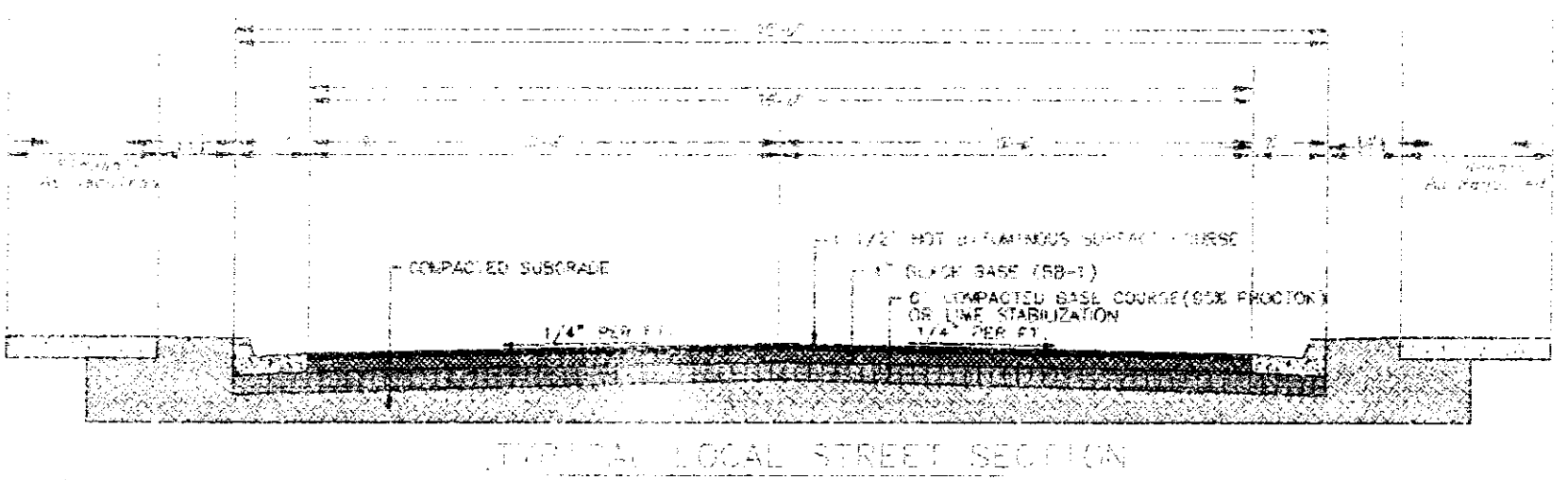
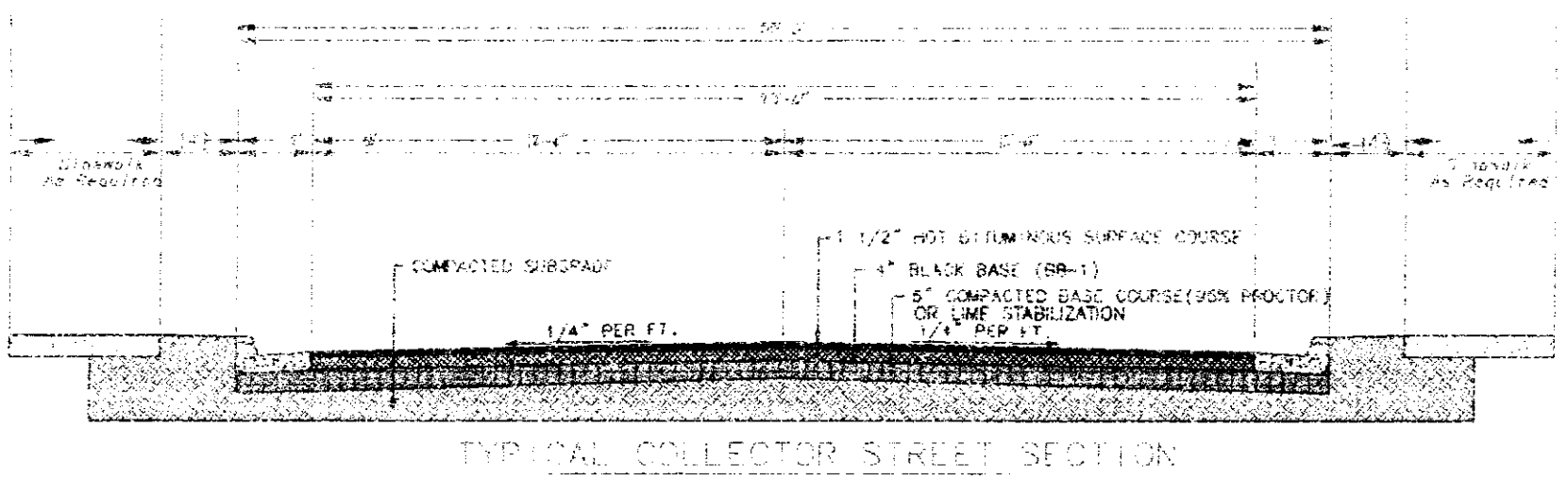
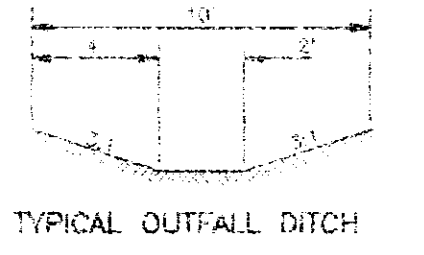
SECTION 12.77-88-90:  
 $Q_{25} = 0.85 \times 5.94 \times 0.54 = 2.68$  CFS  
 $Q_{10} = 0.65 \times 5.94 \times 0.54 = 2.08$  CFS  
 $Q_5 = 0.55 \times 5.94 \times 0.54 = 1.76$  CFS  
 $Q_2 = 0.45 \times 5.94 \times 0.54 = 1.43$  CFS  
 $Q_1 = 0.35 \times 5.94 \times 0.54 = 1.10$  CFS  
 $Q_{0.5} = 0.25 \times 5.94 \times 0.54 = 0.77$  CFS  
 $Q_{0.2} = 0.15 \times 5.94 \times 0.54 = 0.48$  CFS  
 $Q_{0.1} = 0.05 \times 5.94 \times 0.54 = 0.18$  CFS

NOTE:  
 1. Frequency of occurrence of critical year  
 2. Coefficient of safety, less in case of concentration  
 TABLE 21-17 (Factor for Maximum Area only)

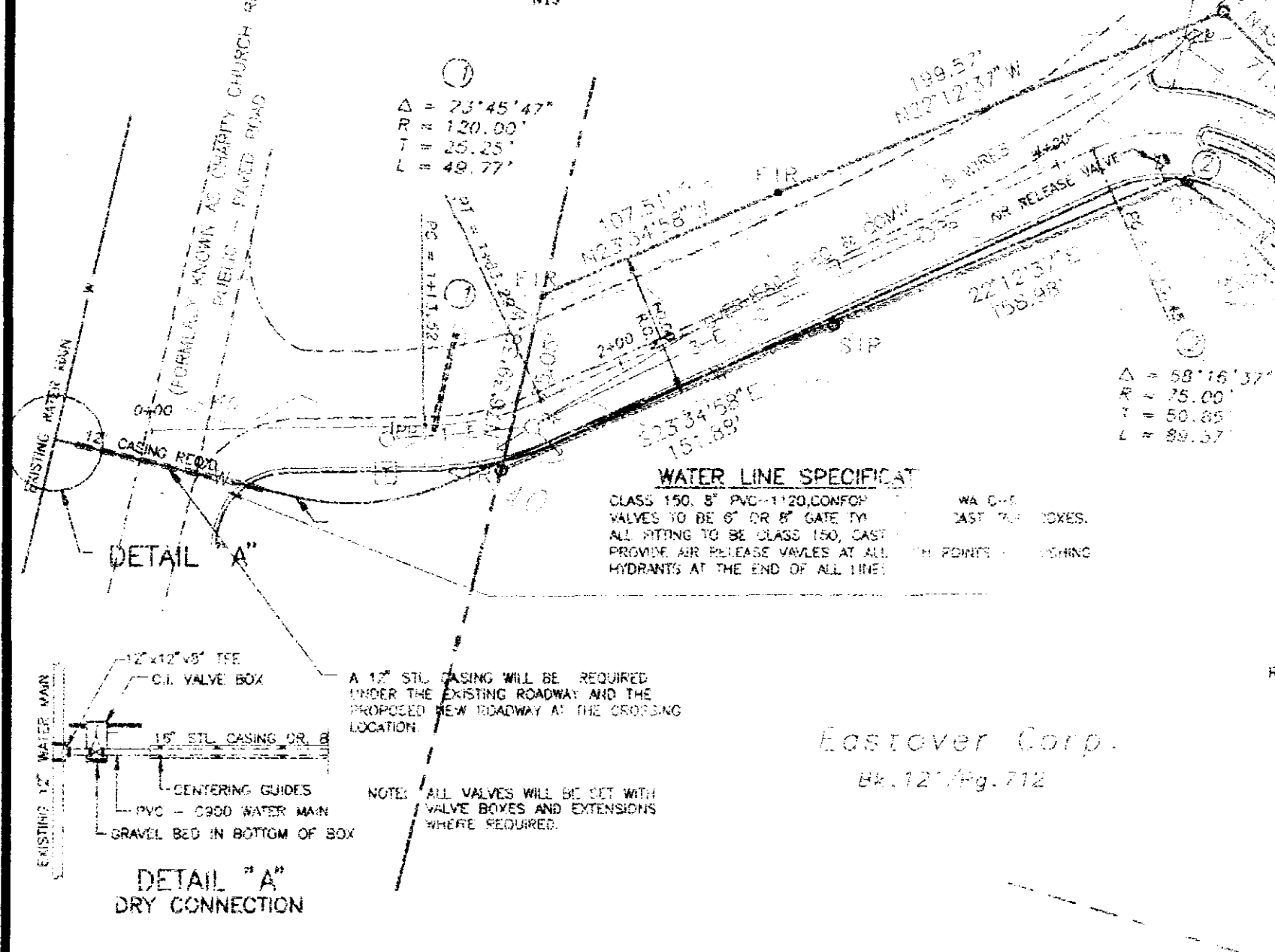
| Year | Coefficient | Factor |
|------|-------------|--------|
| 1    | 1.00        | 1.00   |
| 2    | 0.85        | 0.85   |
| 5    | 0.65        | 0.65   |
| 10   | 0.55        | 0.55   |
| 25   | 0.45        | 0.45   |
| 50   | 0.35        | 0.35   |
| 100  | 0.25        | 0.25   |

NOTE:  
 1. Frequency of occurrence of critical year  
 2. Coefficient of safety, less in case of concentration  
 TABLE 21-17 (Factor for Maximum Area only)

VALUES FOR DISCHARGE TAKEN FROM HANDBOOK FOR SOLUTIONS OF MANNING'S FORMULA:  
 $n = 0.015$   
 $V = 4.64$  IN/HR



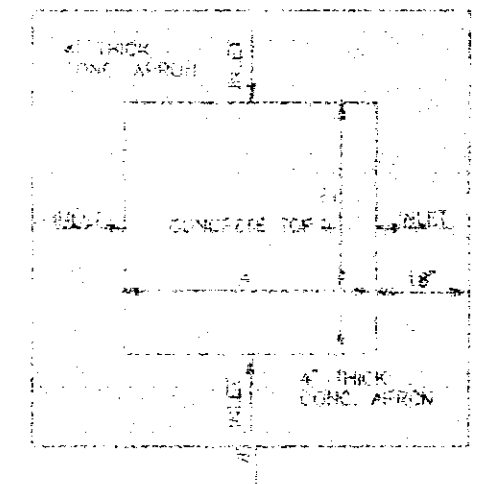
### VICINITY MAP



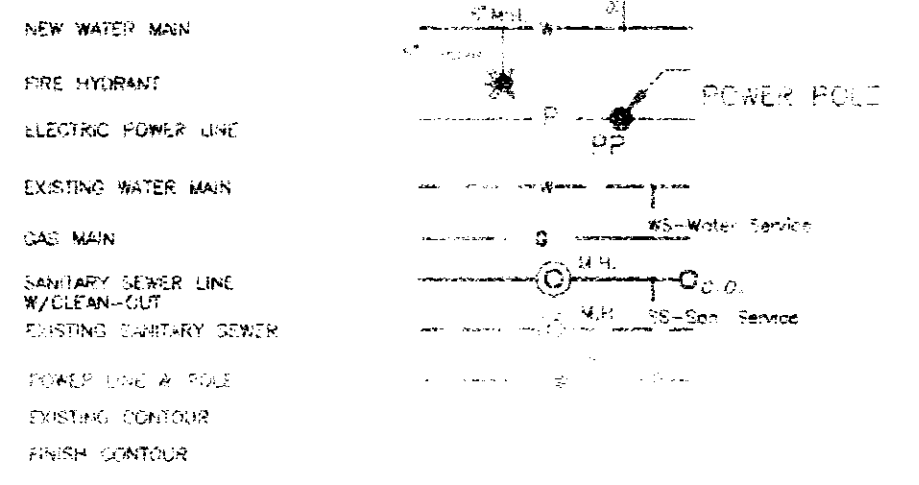
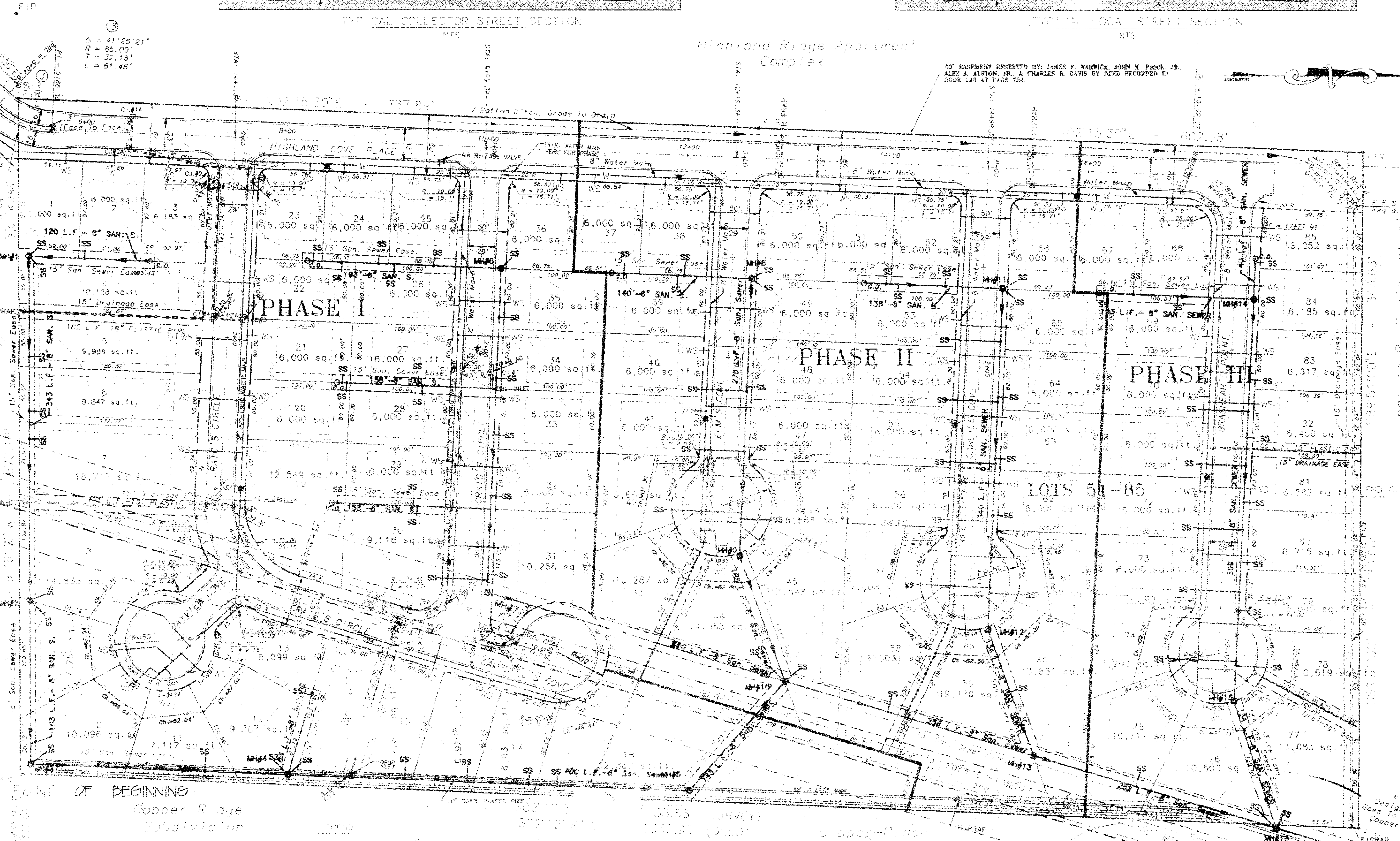
**WATER LINE SPECIFICATIONS**  
 CLASS 150, 8\"/>

**DETAIL "A" DRY CONNECTION**

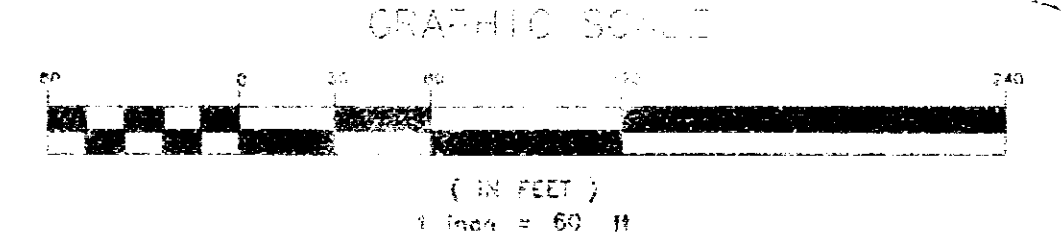
**PHASE I - LOTS 1-36**  
**PHASE II - LOTS 37-86**  
**PHASE III - LOTS 87-85**



**COMMENCING POINT**  
 FROM THE SOUTHWEST CORNER OF THE SECTION 28, T-7-N, R-2-E, MADISON COUNTY, MISSISSIPPI, BEING BOOK 18, PAGE 118.

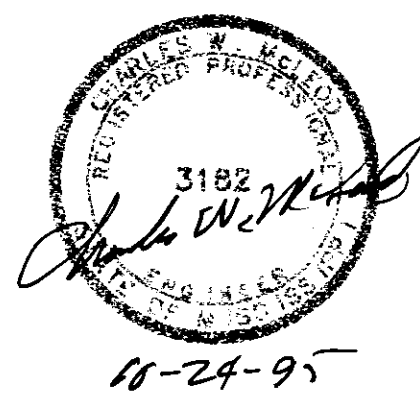
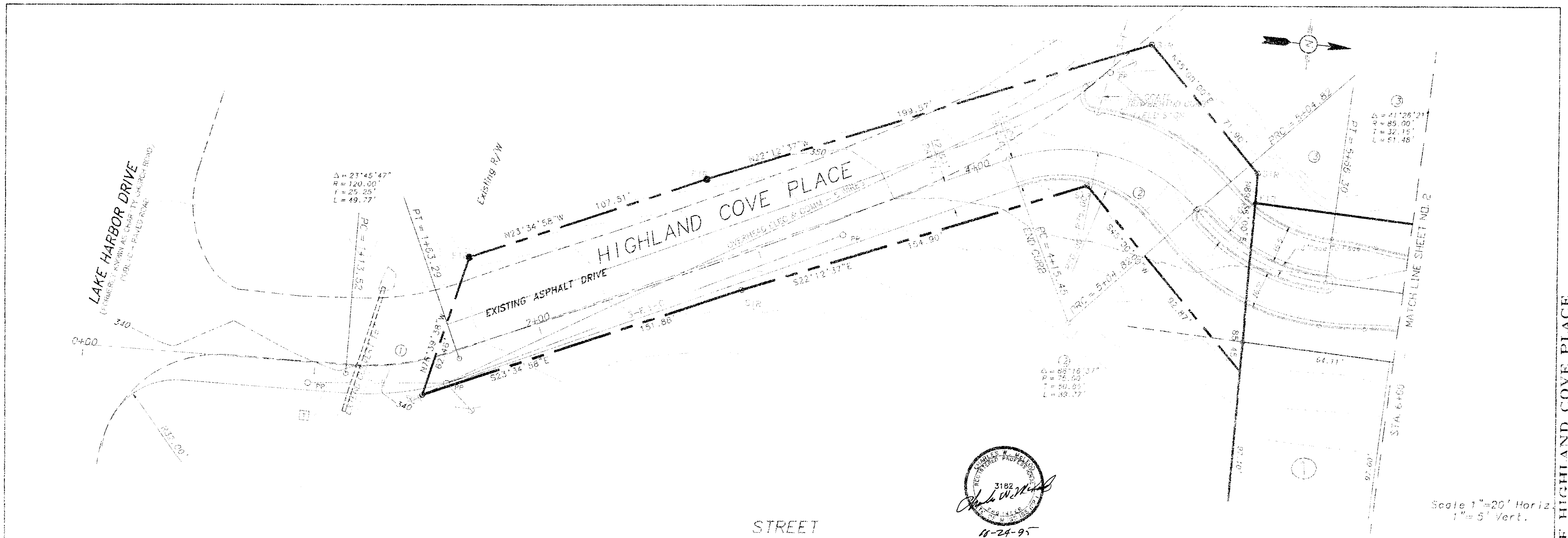


MAPECH, INC. certifies that this plot is a correct representation of the conditions as the best of its date and that there are no encroachments or fixtures or improvements except as shown on this plot.



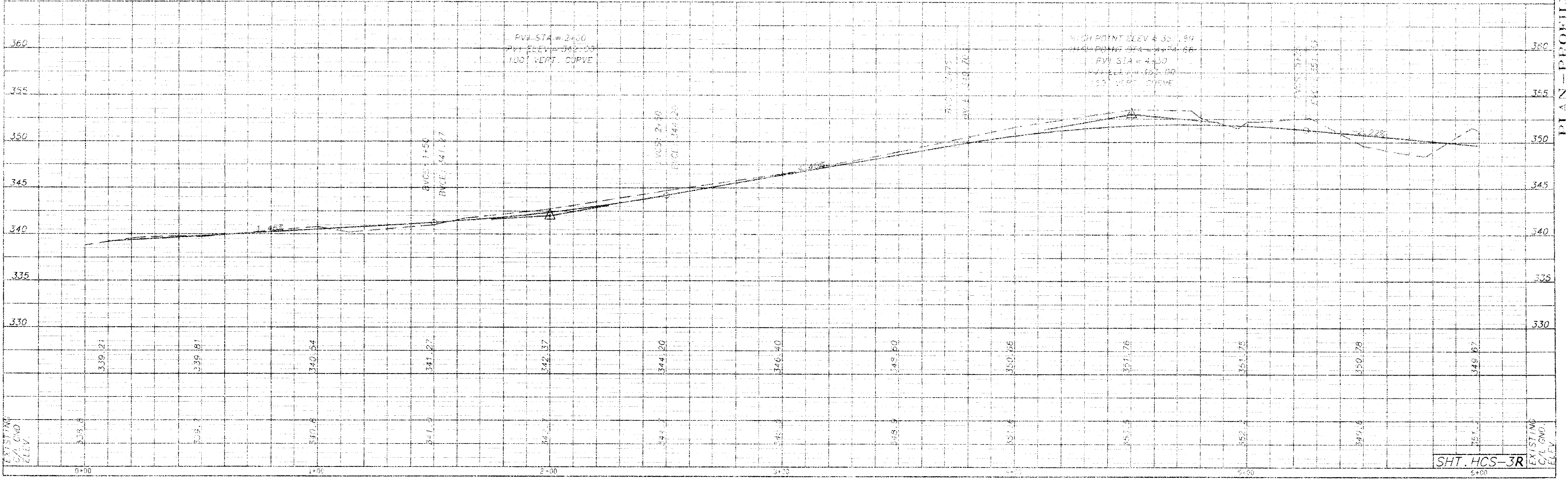
Owner:  
**E & A Associates, Inc.**  
 104 Kristin Hill  
 Madison, Mississippi 39110

|                |                 |                                    |                                |                |
|----------------|-----------------|------------------------------------|--------------------------------|----------------|
| DATE: 04-07-95 | SCALE: 1" = 40' | PROJECT: HIGHLAND COVE SUBDIVISION | CITY OF RIDGELAND, MISSISSIPPI | JOB NO.: HCS-2 |
| DRAWN BY: CWM  | CHECKED BY:     | ENGINEER: [Signature]              | DATE: 7-28-95                  | PAGE: 26       |



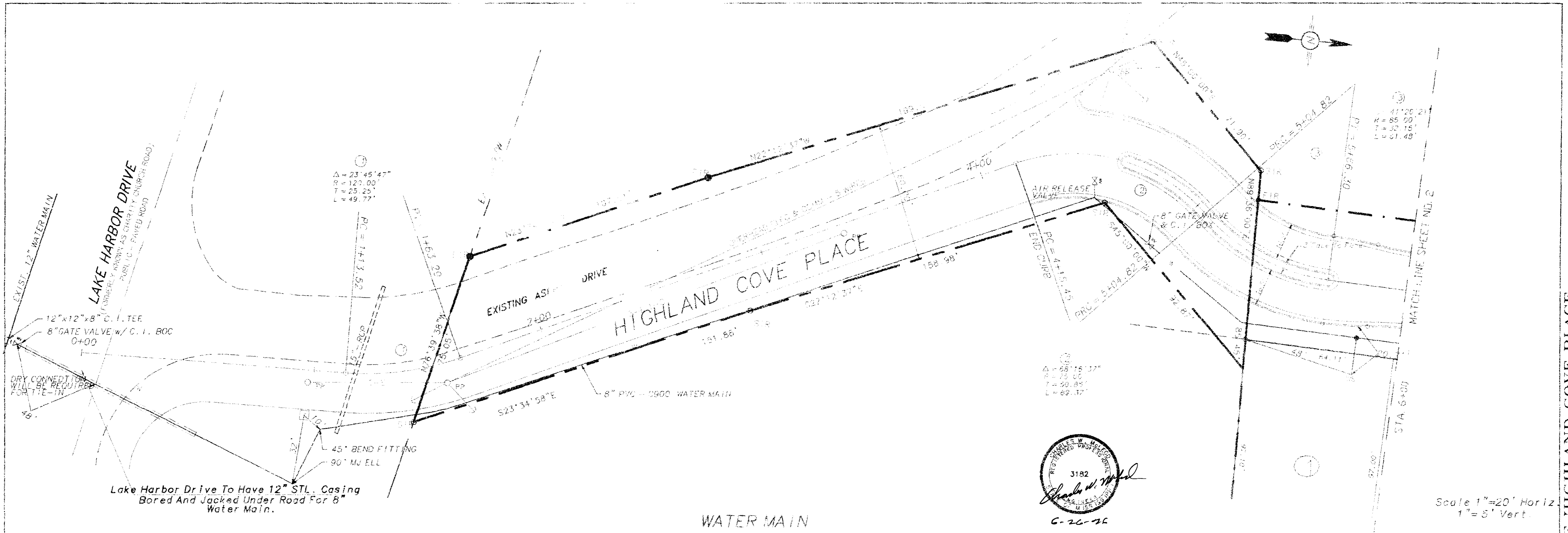
Scale 1"=20' Horiz  
1"=5' Vert.

STREET



PLAN - PROFILE HIGHLAND COVE PLACE

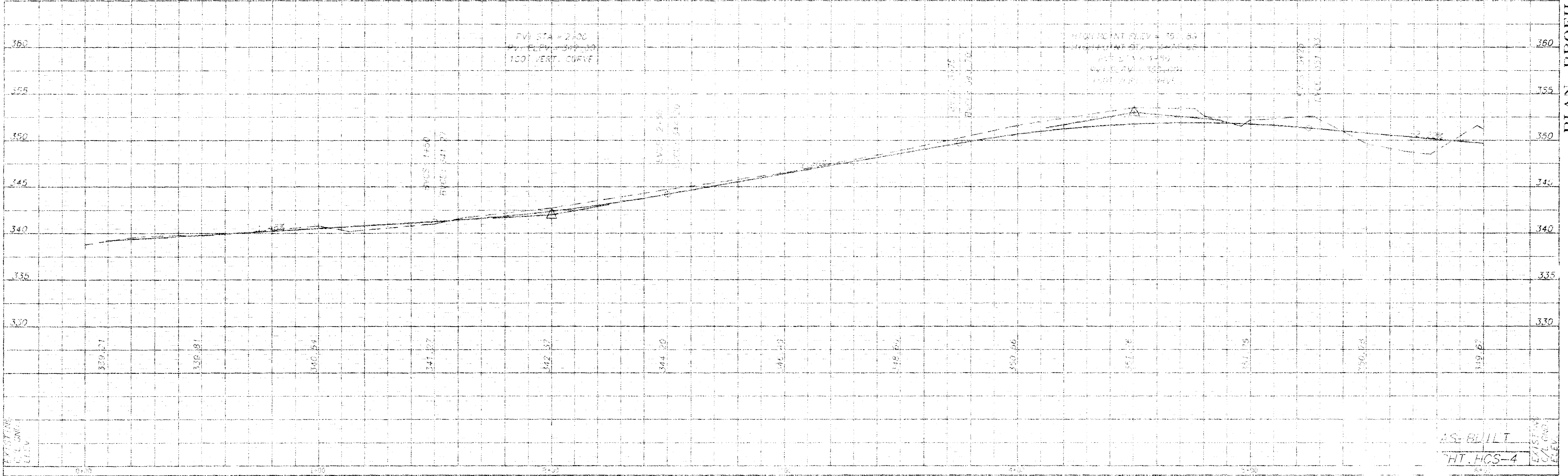
SHT. HCS-3R



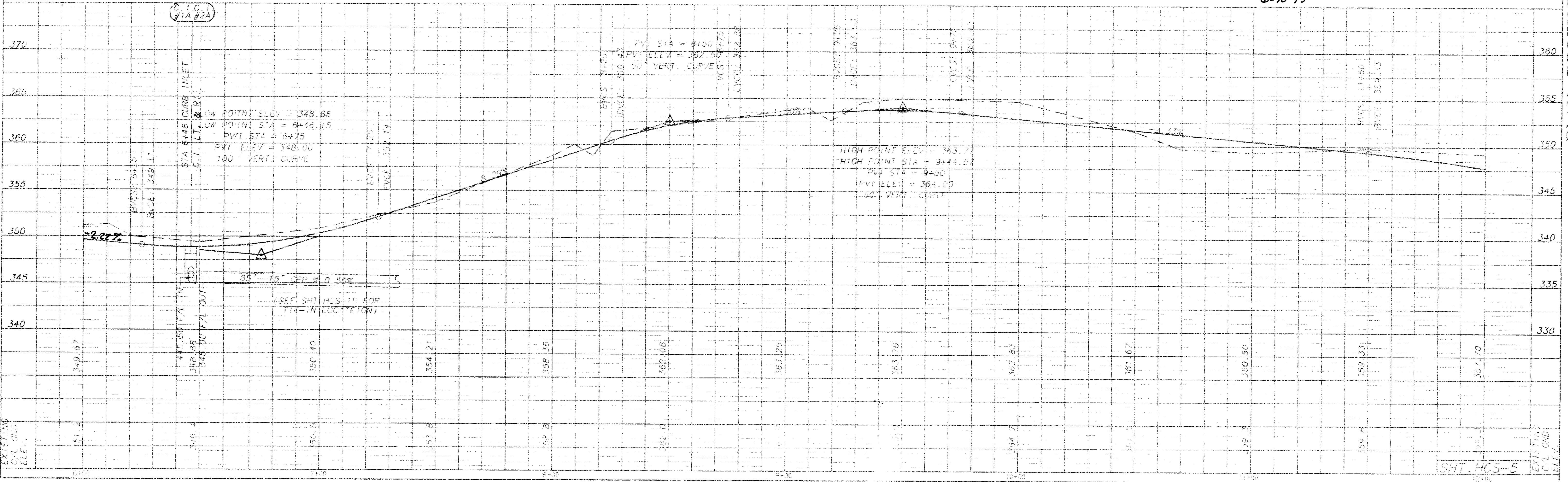
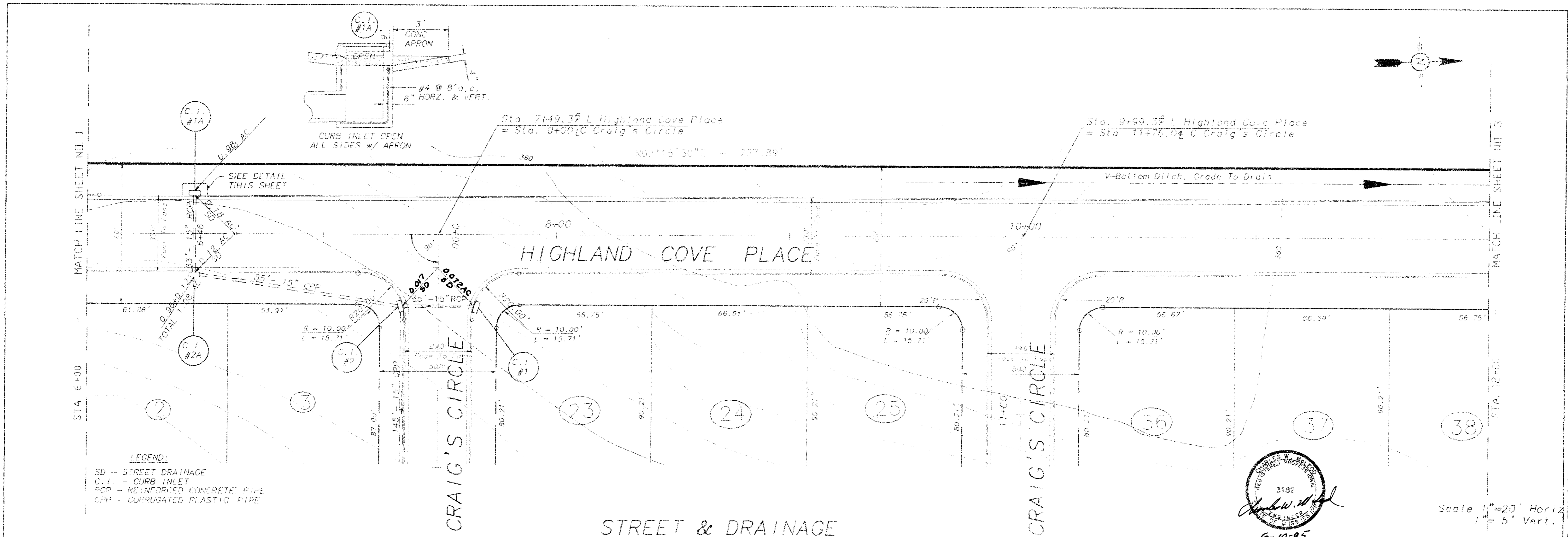
Lake Harbor Drive To Have 12" STL. Casing Bored And Jacked Under Road For 8" Water Main.

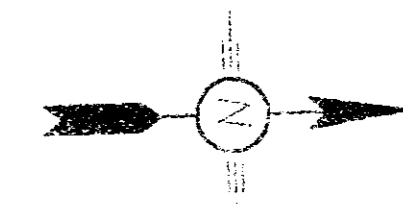
3182  
 Charles W. [Signature]  
 C-26-76

Scale 1"=20' Horiz  
 1"=8' Vert.



PLAN - PROFILE: HIGHLAND COVE PLACE





MATCH LINE SHEET NO. 1

STA. 6+00

MATCH LINE SHEET NO. 2

STA. 12+00

Sta. 7149.39 L Highland Cove Place  
= Sta. 0+00 C Craig's Circle

Sta. 9199.39 L Highland Cove Place  
= Sta. 11+76.04 C Craig's Circle

N02°15'30"E - 737.89'

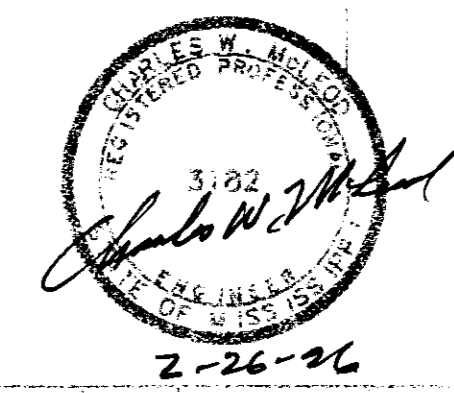
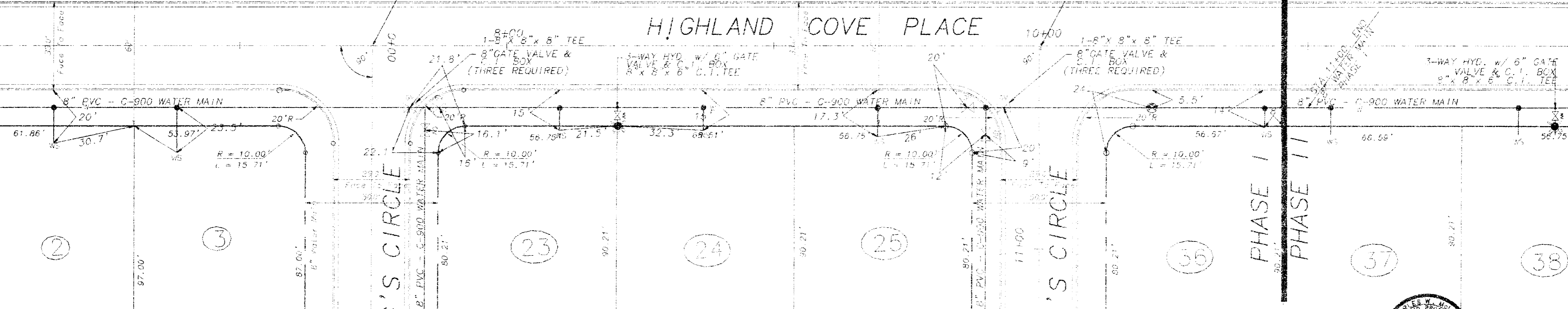
HIGHLAND COVE PLACE

CRAIG'S CIRCLE

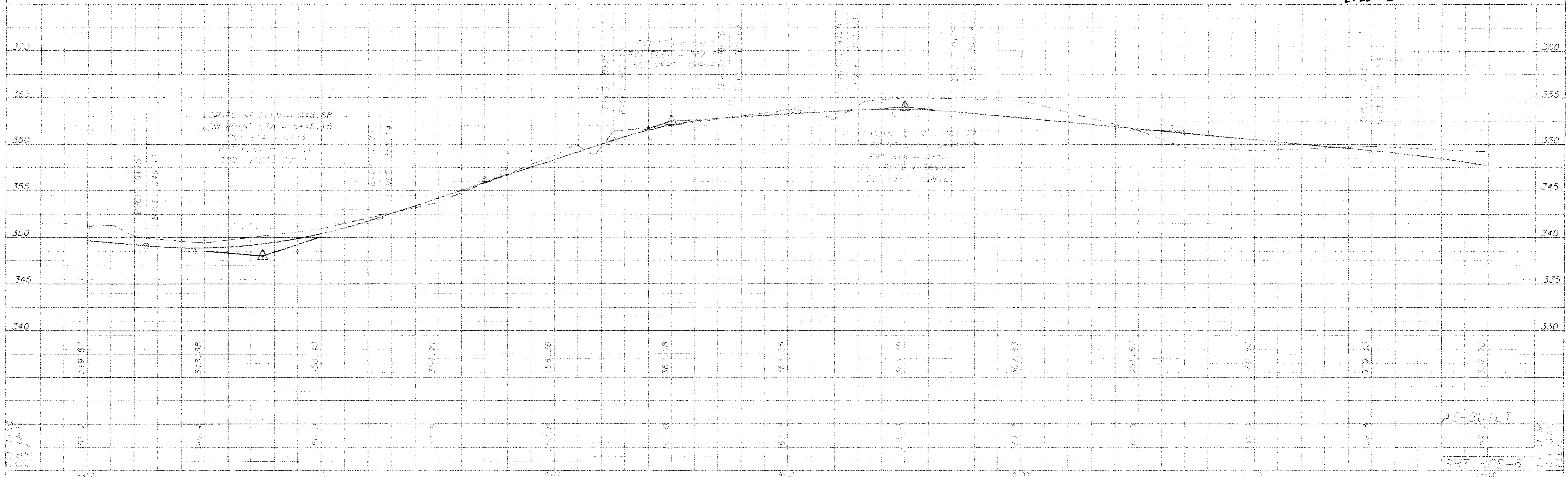
CRAIG'S CIRCLE

PHASE I  
PHASE II

WATER

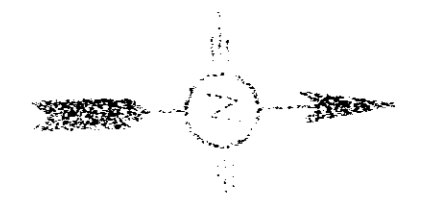


Scale 1" = 20' Horiz  
1" = 5' Vert.



AS-BUILT

SHT. WPS-6



Sta. 12+49.79 Highland Cove Place  
= Sta. 0+00 of Elm's Cove

Sta. 14+82.79 Highland Cove Place  
= Sta. 0+00 of Carlyle Cove

Sta. 17+49.49 Highland Cove Place  
= Sta. 0+00 of Brashear's Point

MATCHLINE SHEET NO. 2  
SIA 17+10

HIGHLAND COVE PLACE

ELM'S COVE

CARLYLE COVE

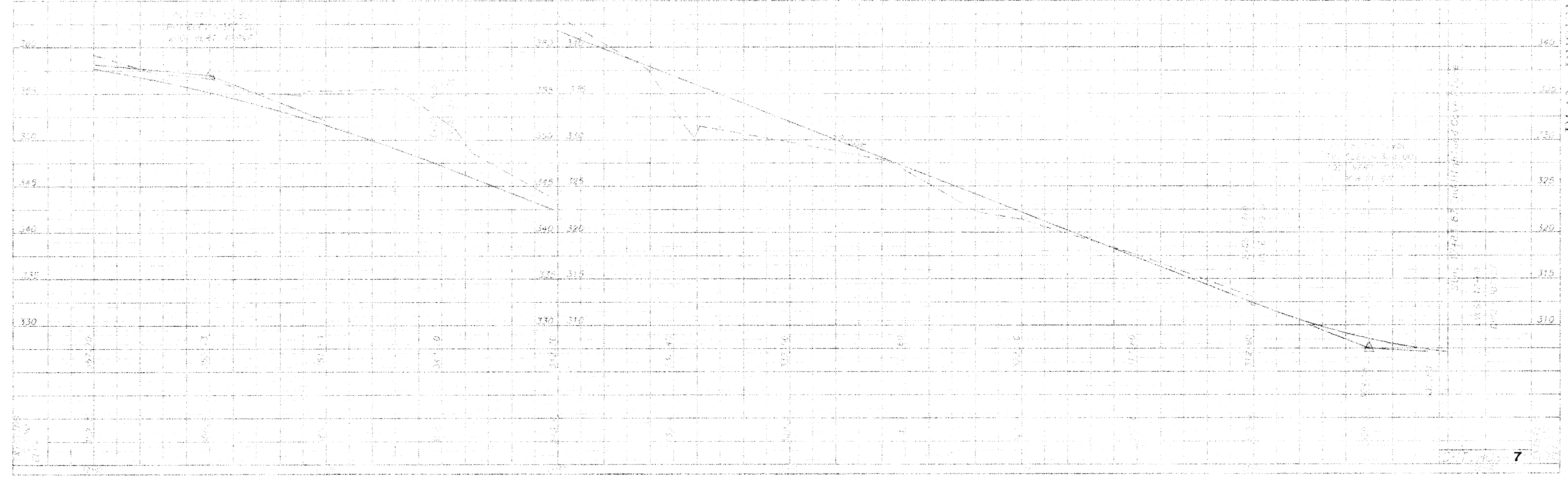
BRASHEAR'S POINT

STREET & DRAINAGE

PHASE I  
PHASE II

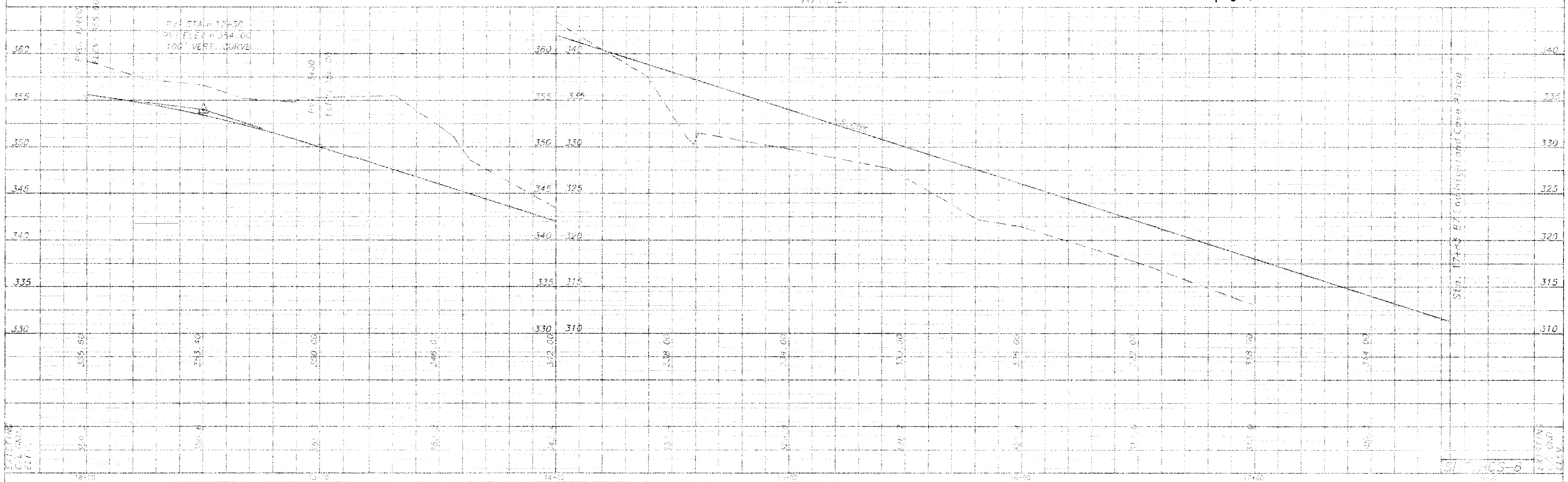
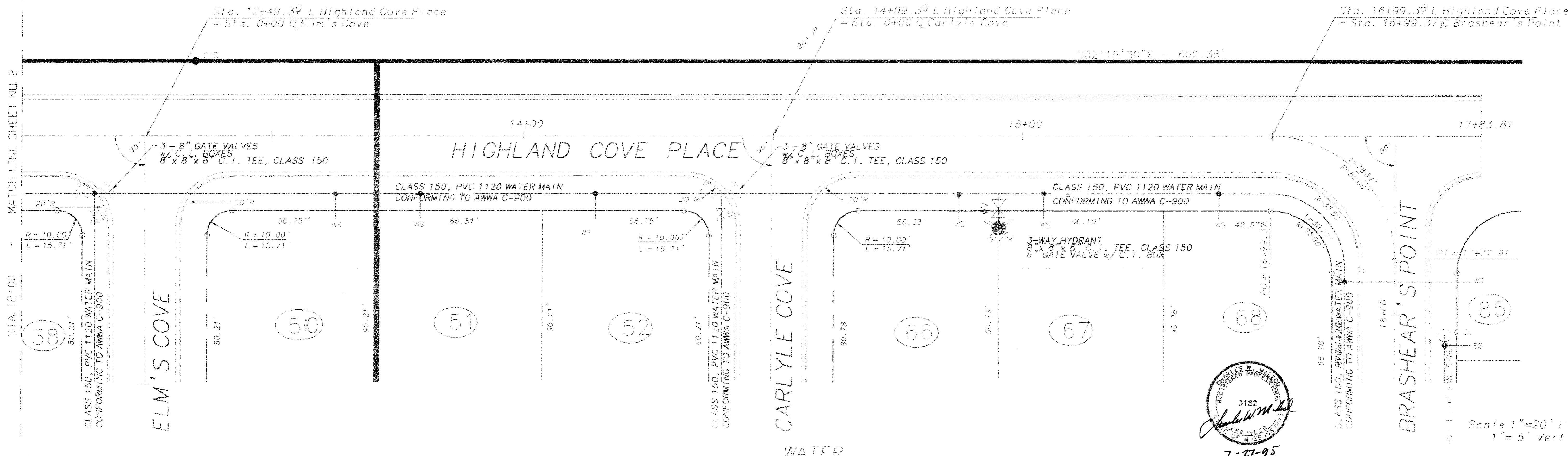
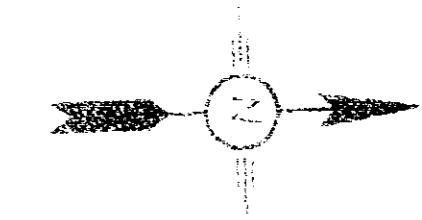
3182  
Charles W. White  
6-17-96

Scale 1"=20' Horiz.  
1"=5' Vert.

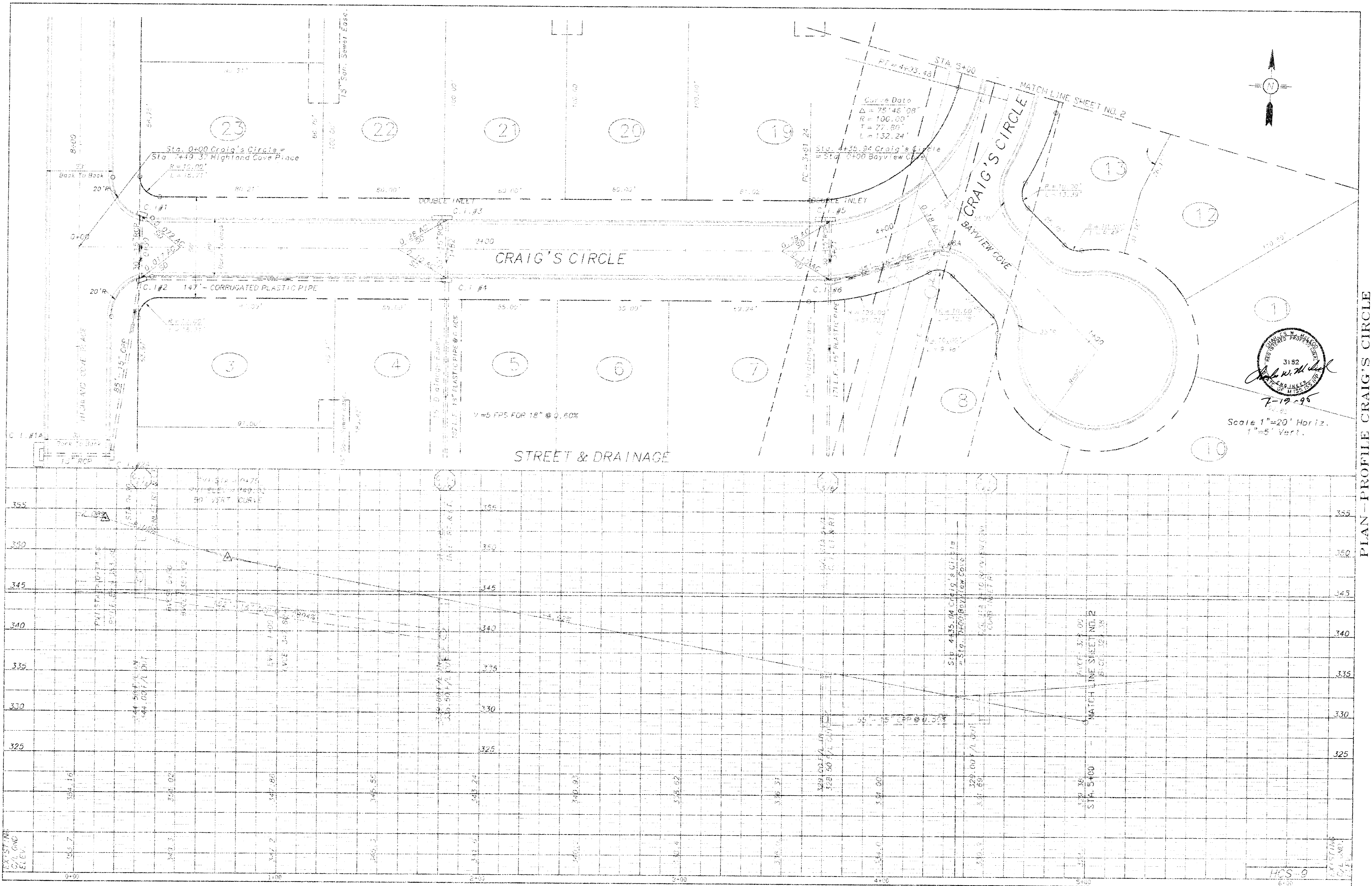


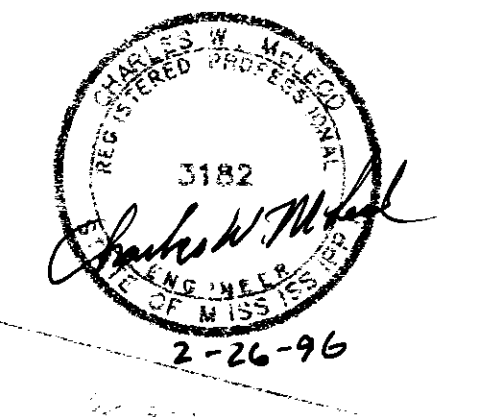
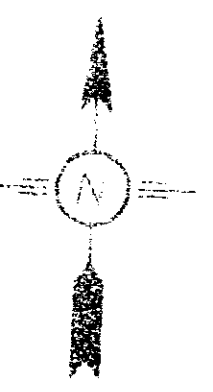
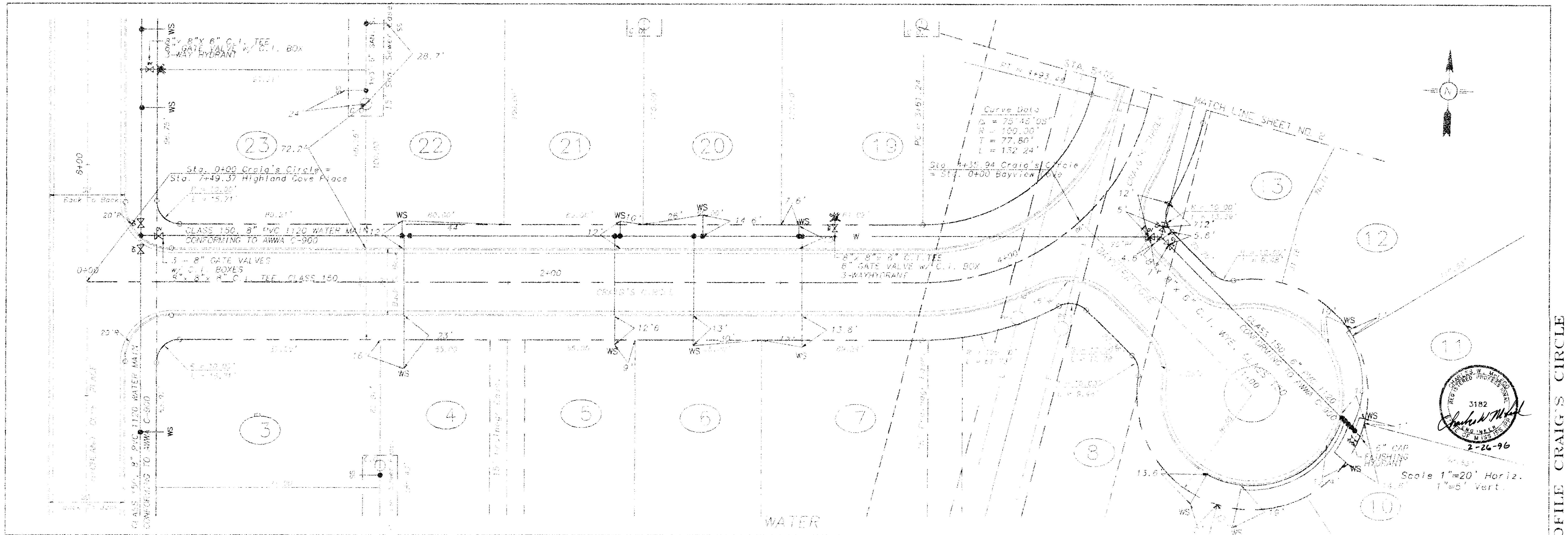
PLAN PROFILE HIGHLAND COVE PLACE



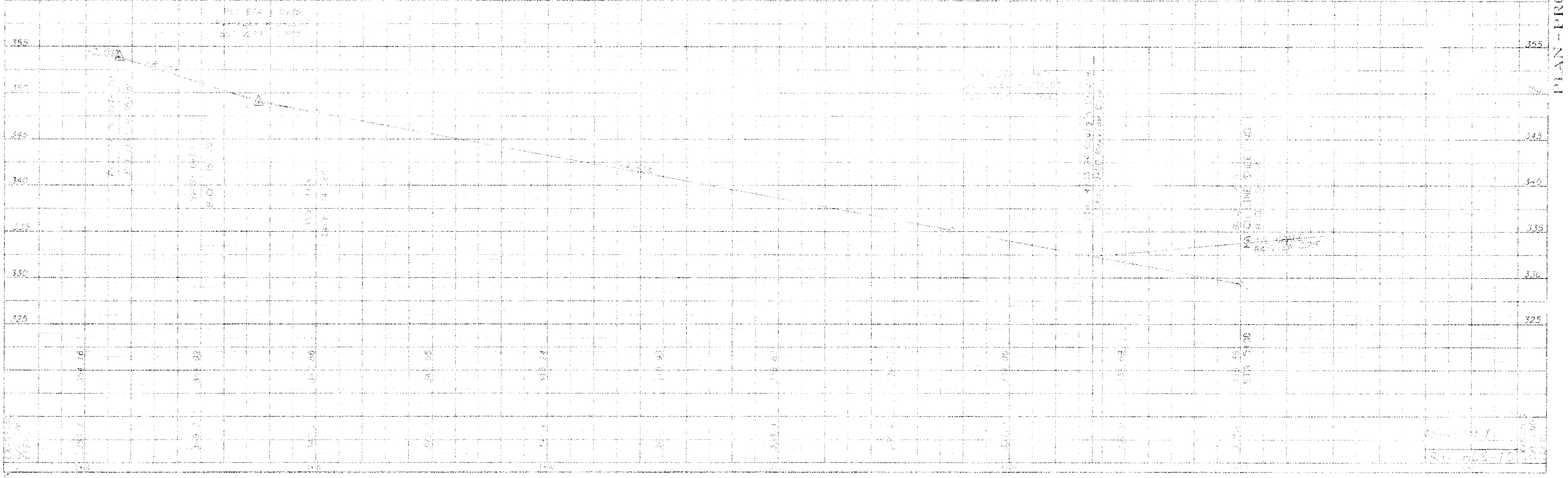


PLAN - PROFILE, HIGHLAND COVE PLACE

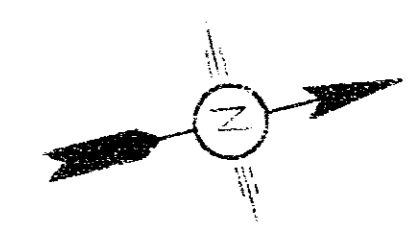
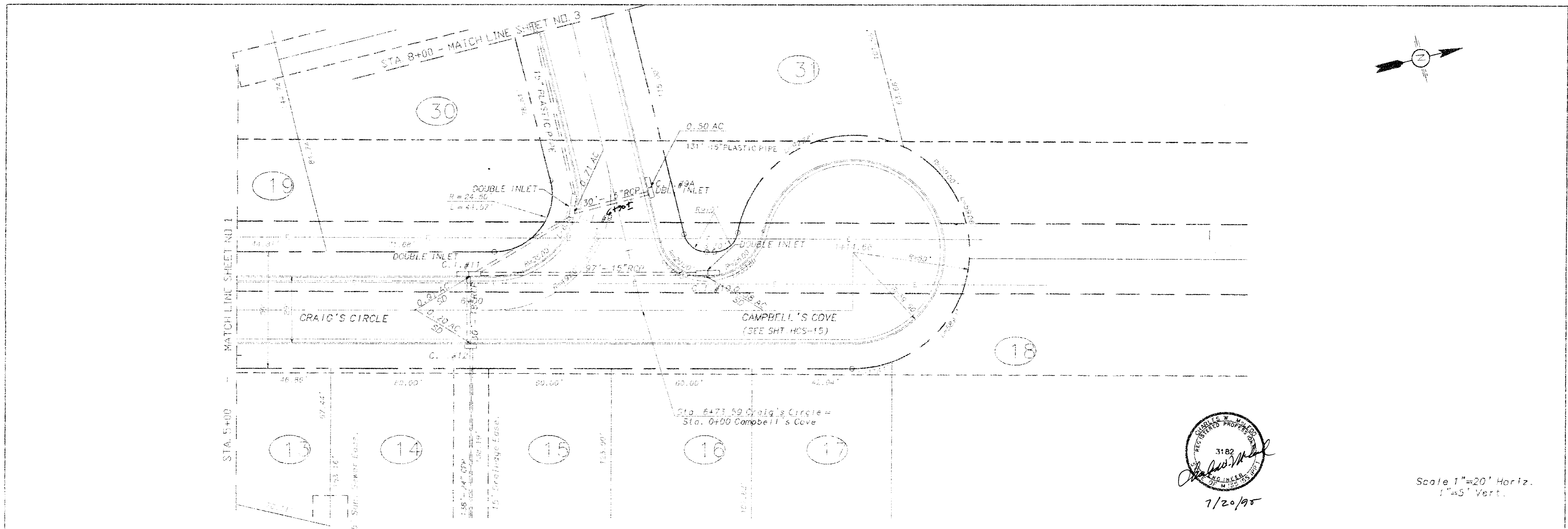




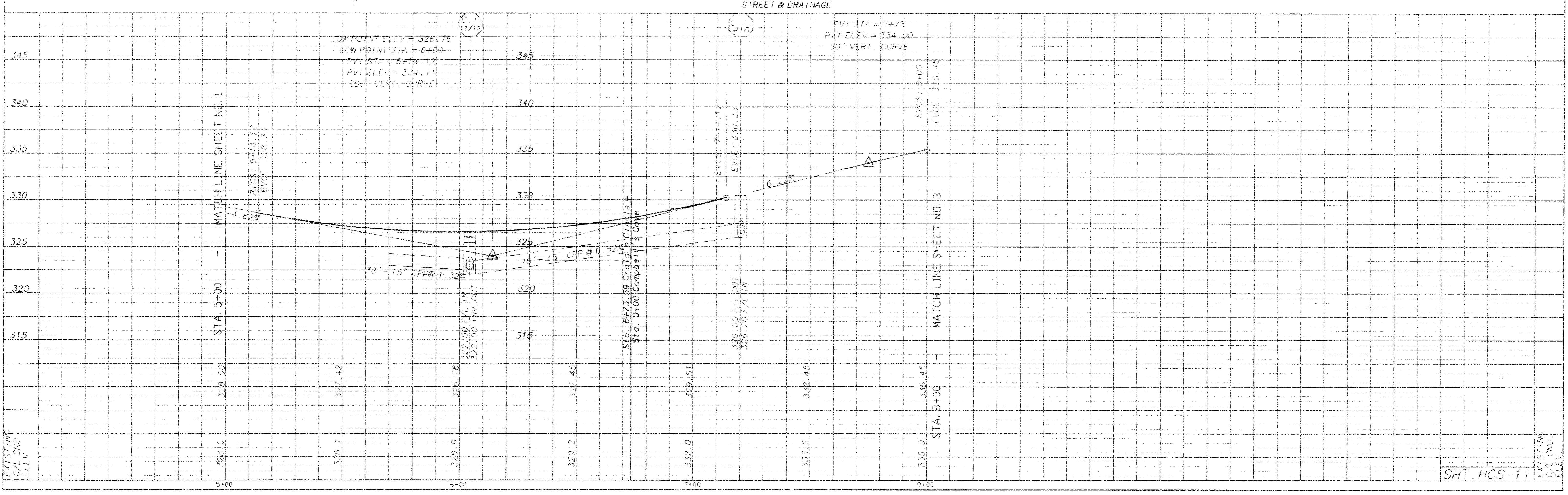
Scale 1"=20' Horiz.  
1"=6' Vert.



PLAN - PROFILE CRAIG'S CIRCLE

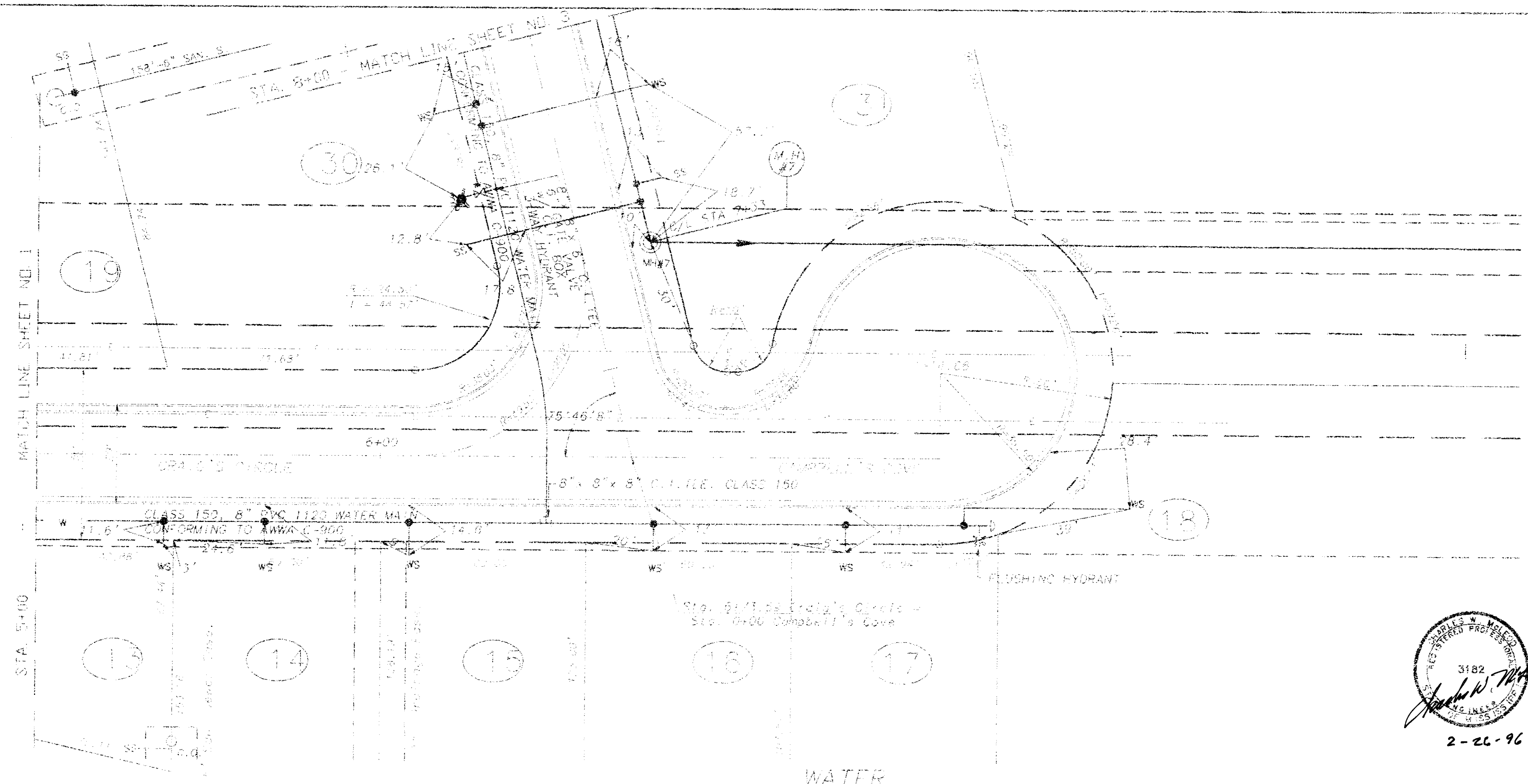


Scale 1"=20' Horiz.  
1"=5' Vert.



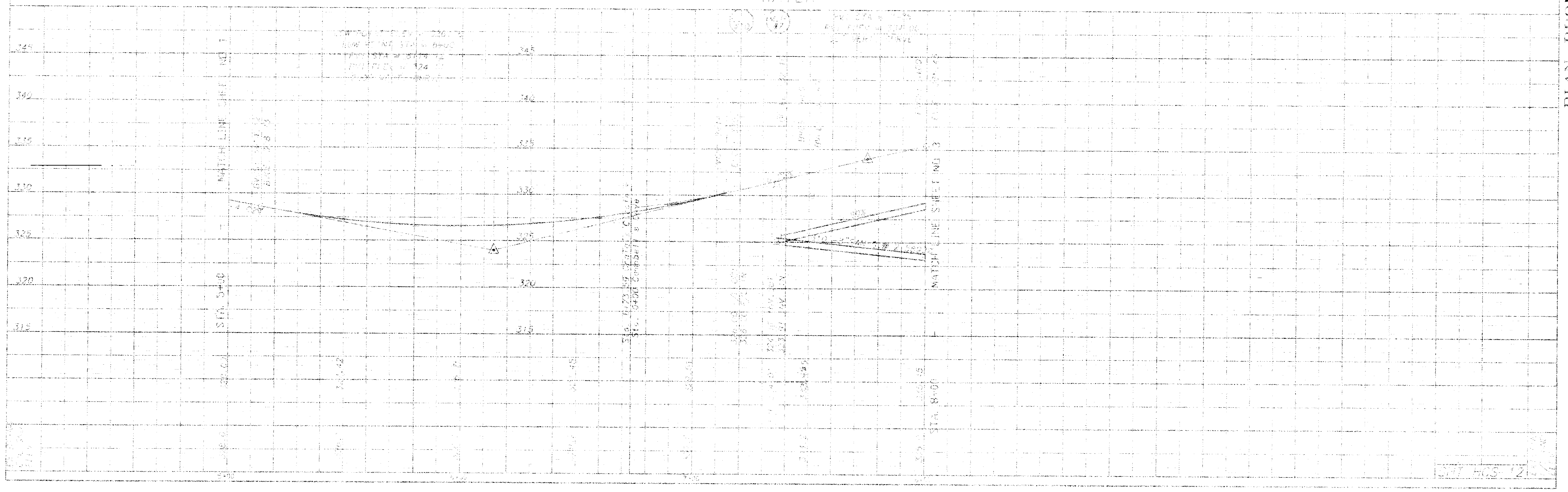
PLAN - PROFILE CRAIG'S CIRCLE

SHT. HCS-11



2-26-96

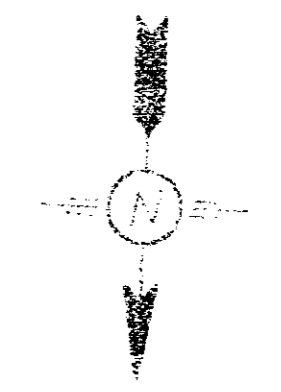
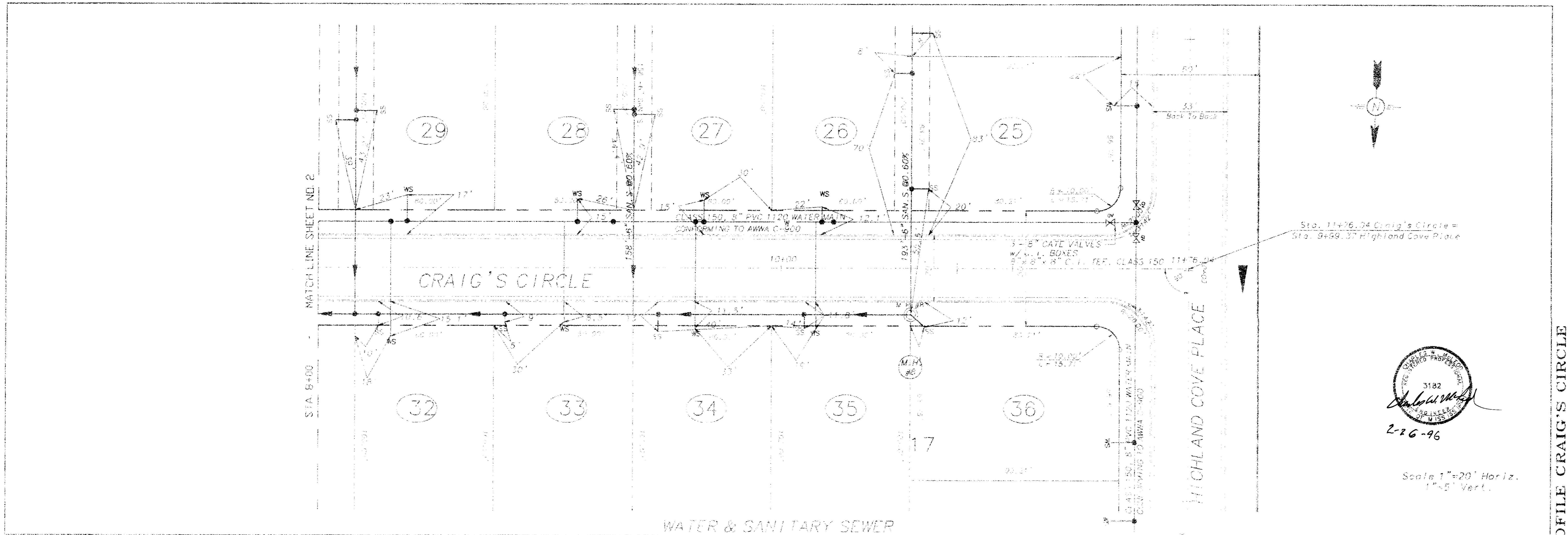
Scale 1"=20' Horiz.  
 1"=5' Vert.



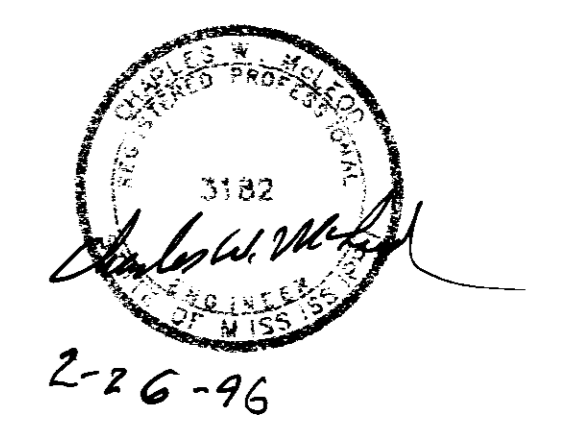
PLAN - PROFILE CRAIG'S CIRCLE

577 HOS 12/1/96

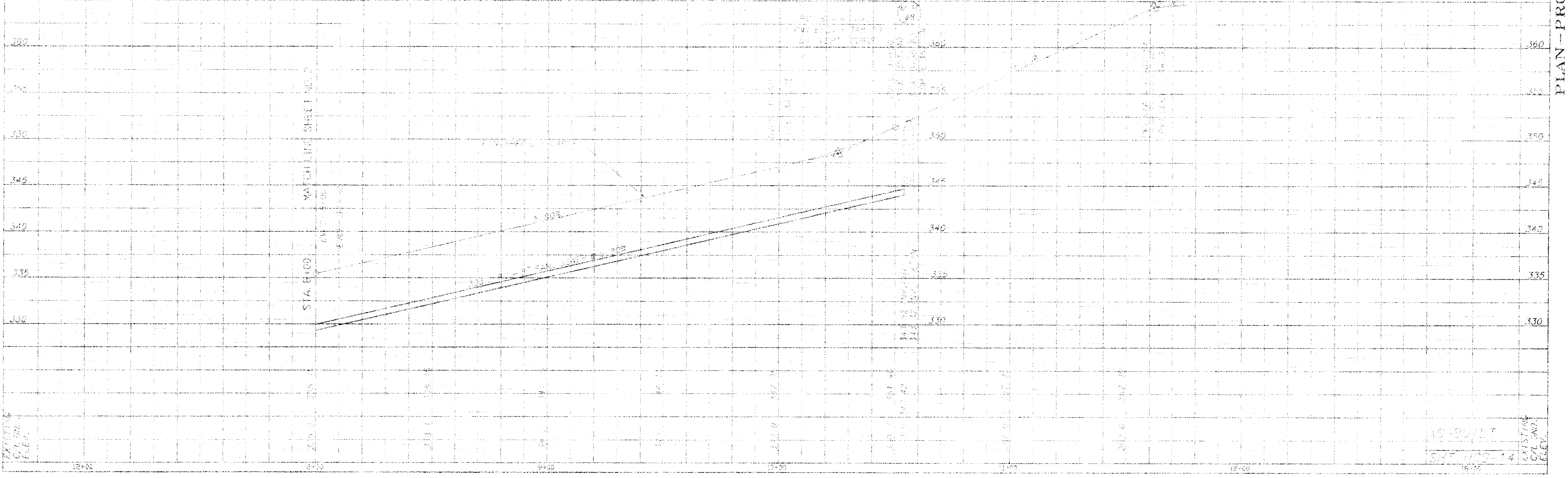




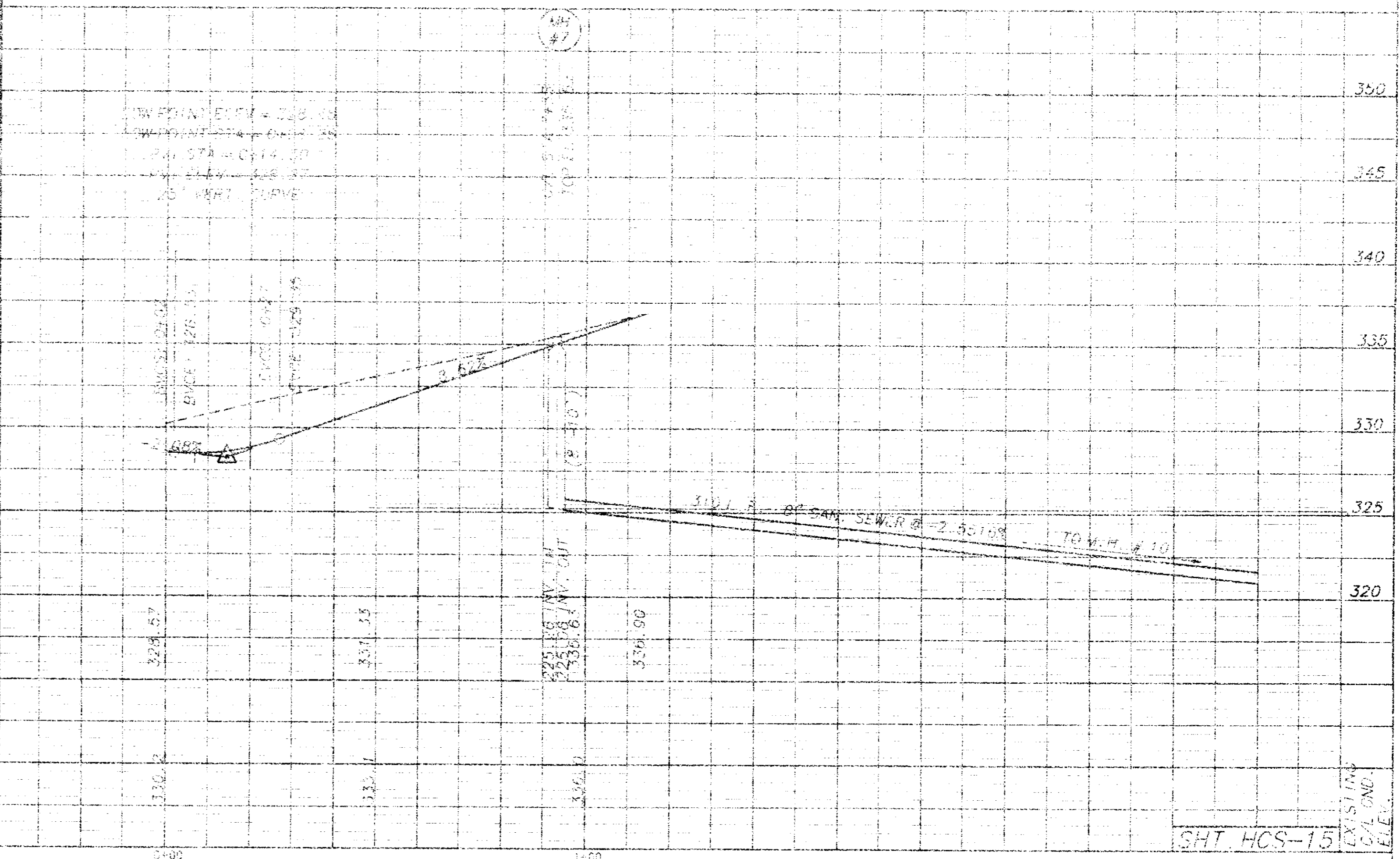
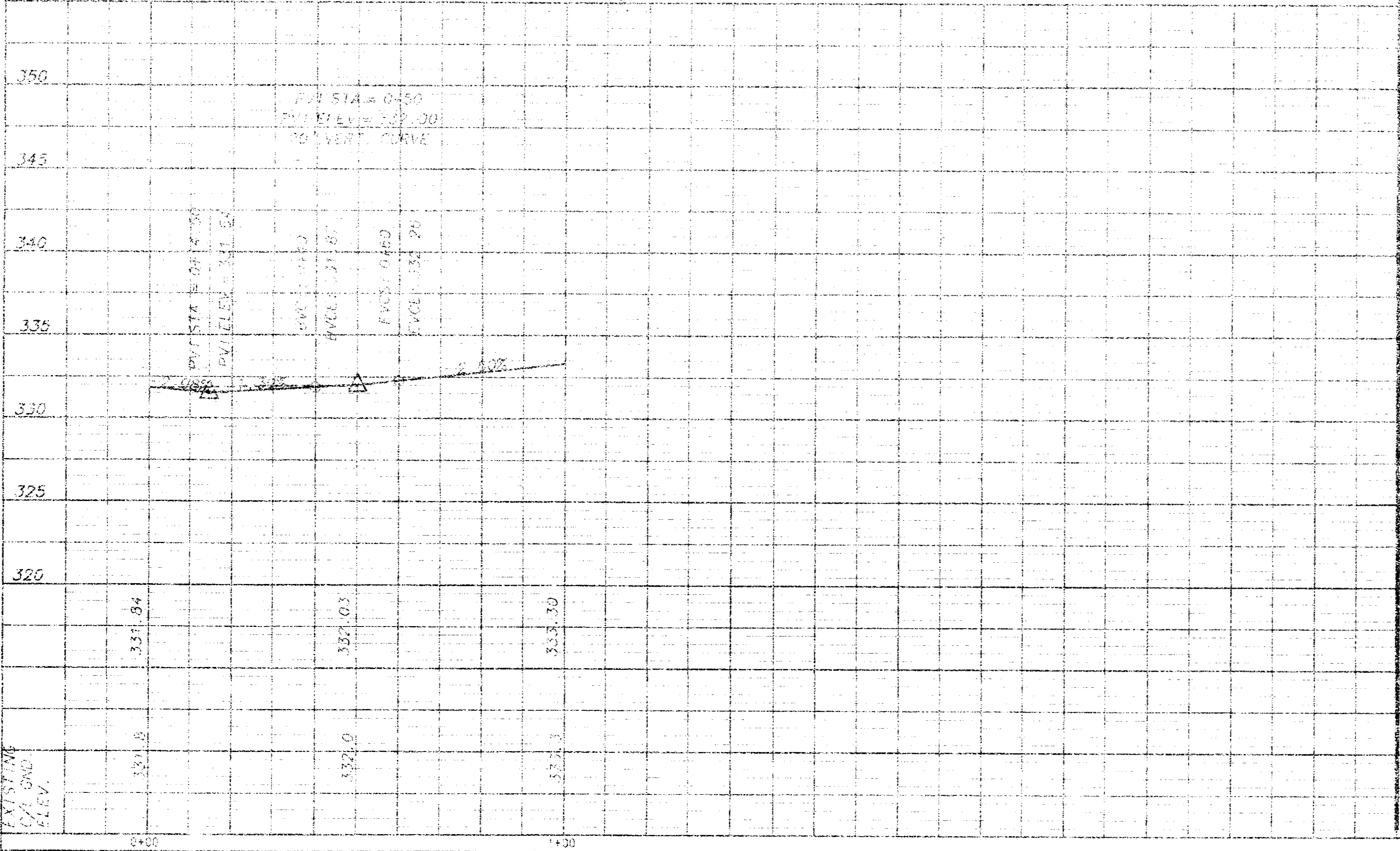
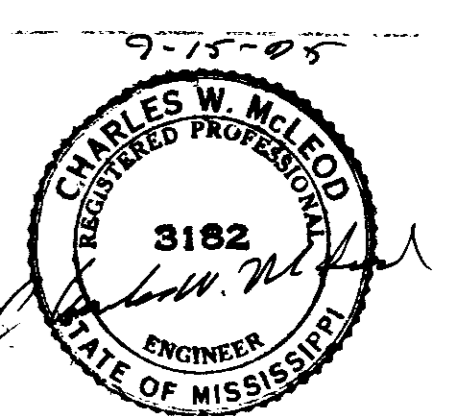
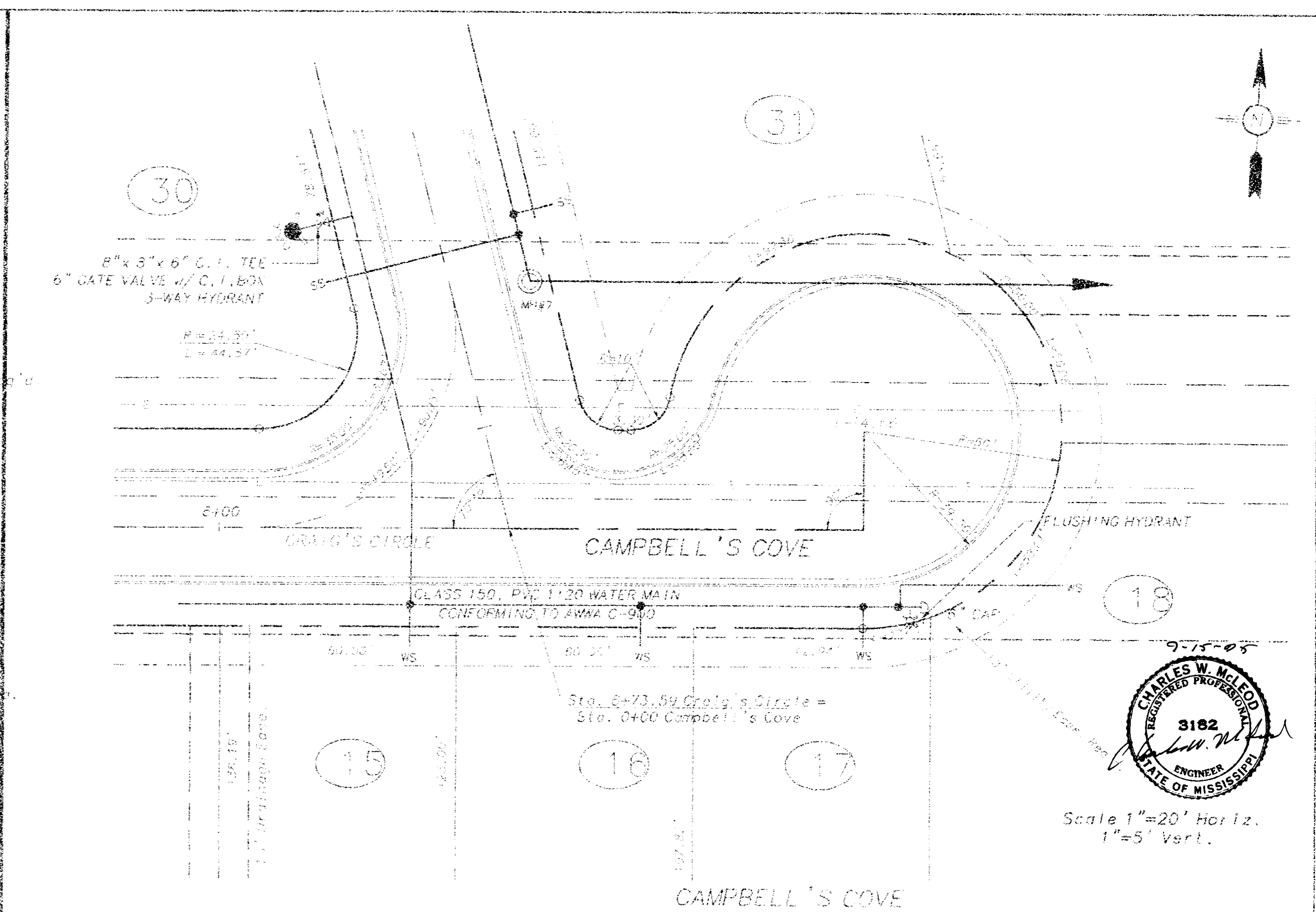
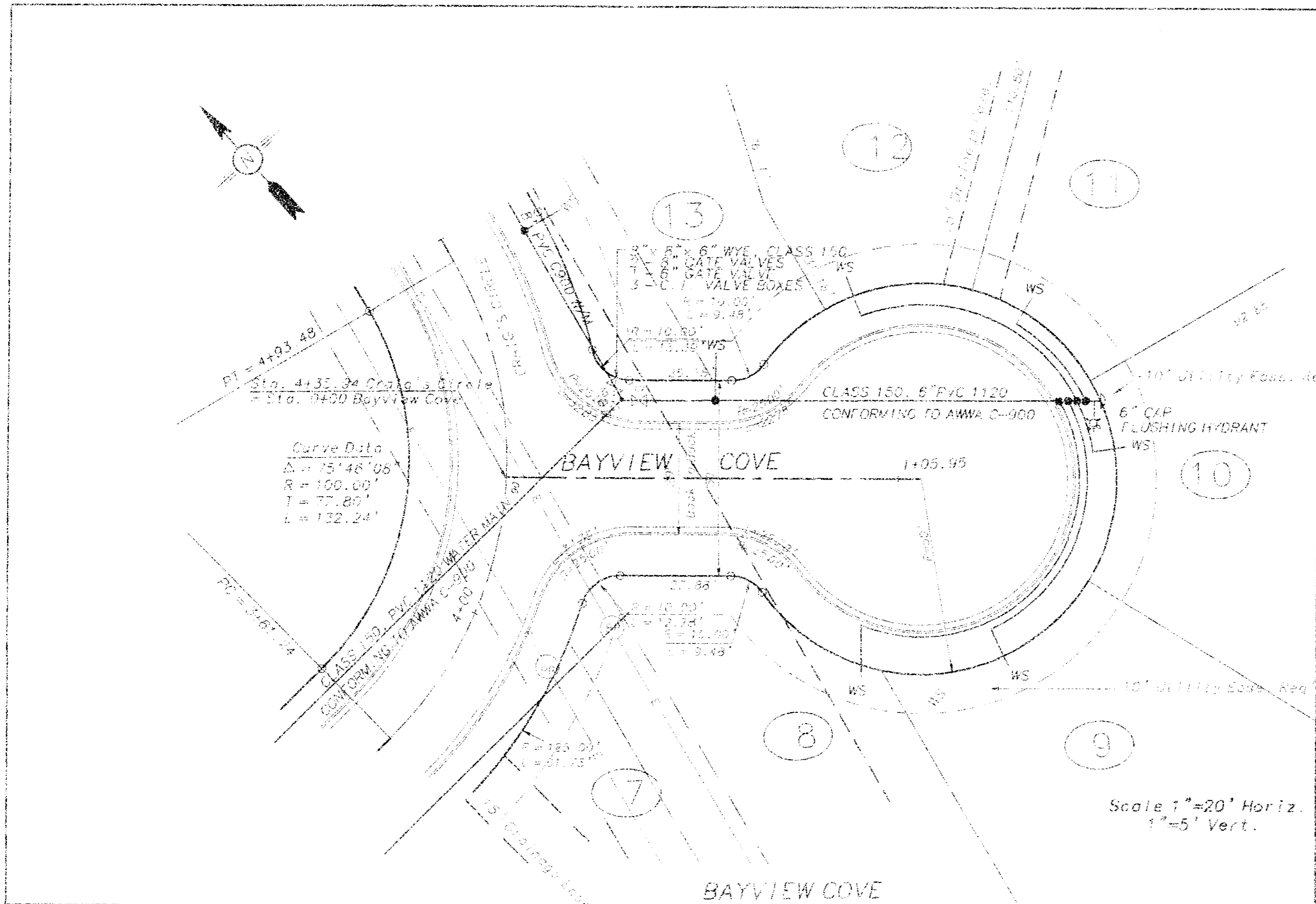
Sta. 11+76.04 Craig's Circle = Sta. 9+94.37 Highland Cove Place



Scale 1"=20' Horiz.  
1"=5' Vert.

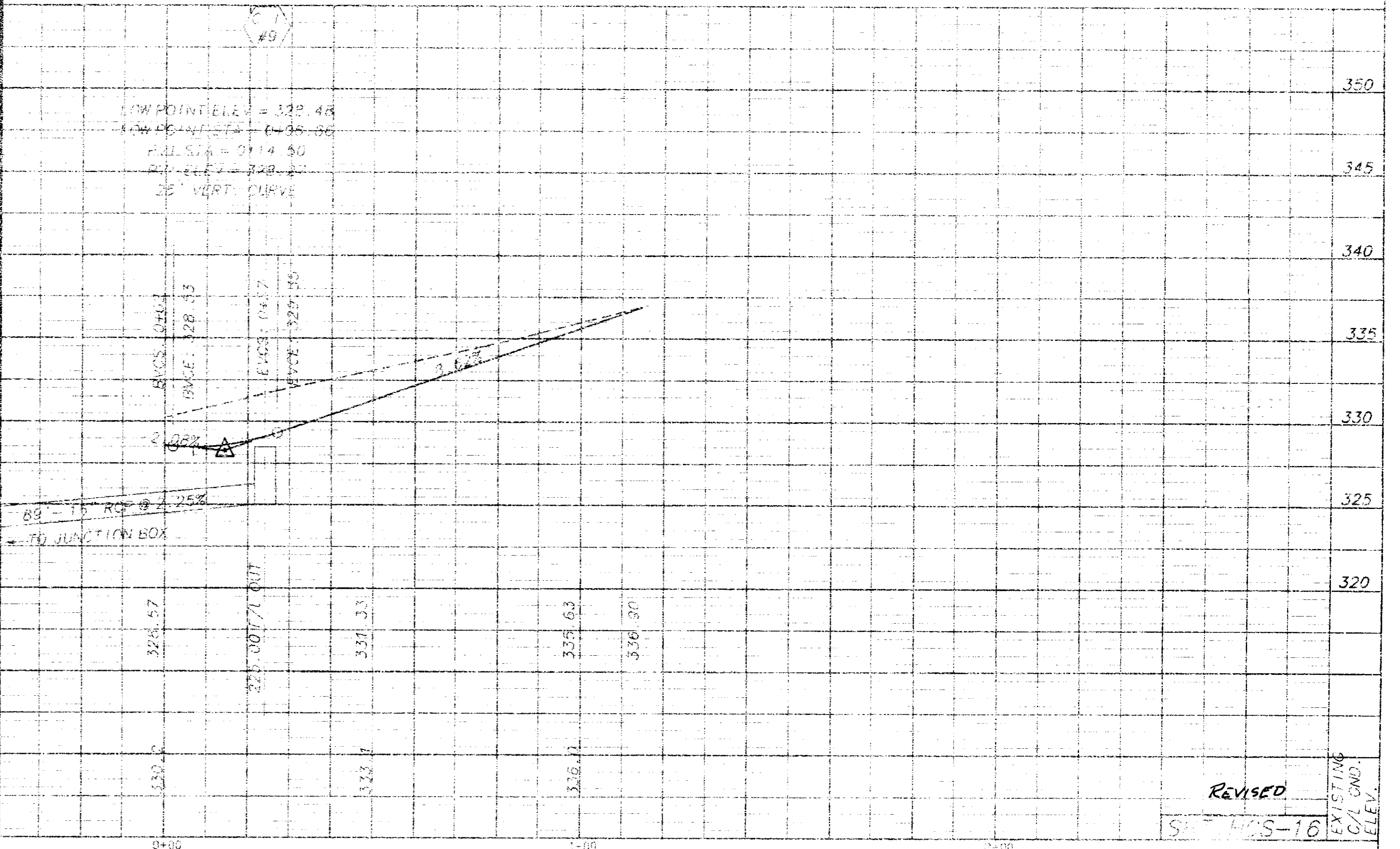
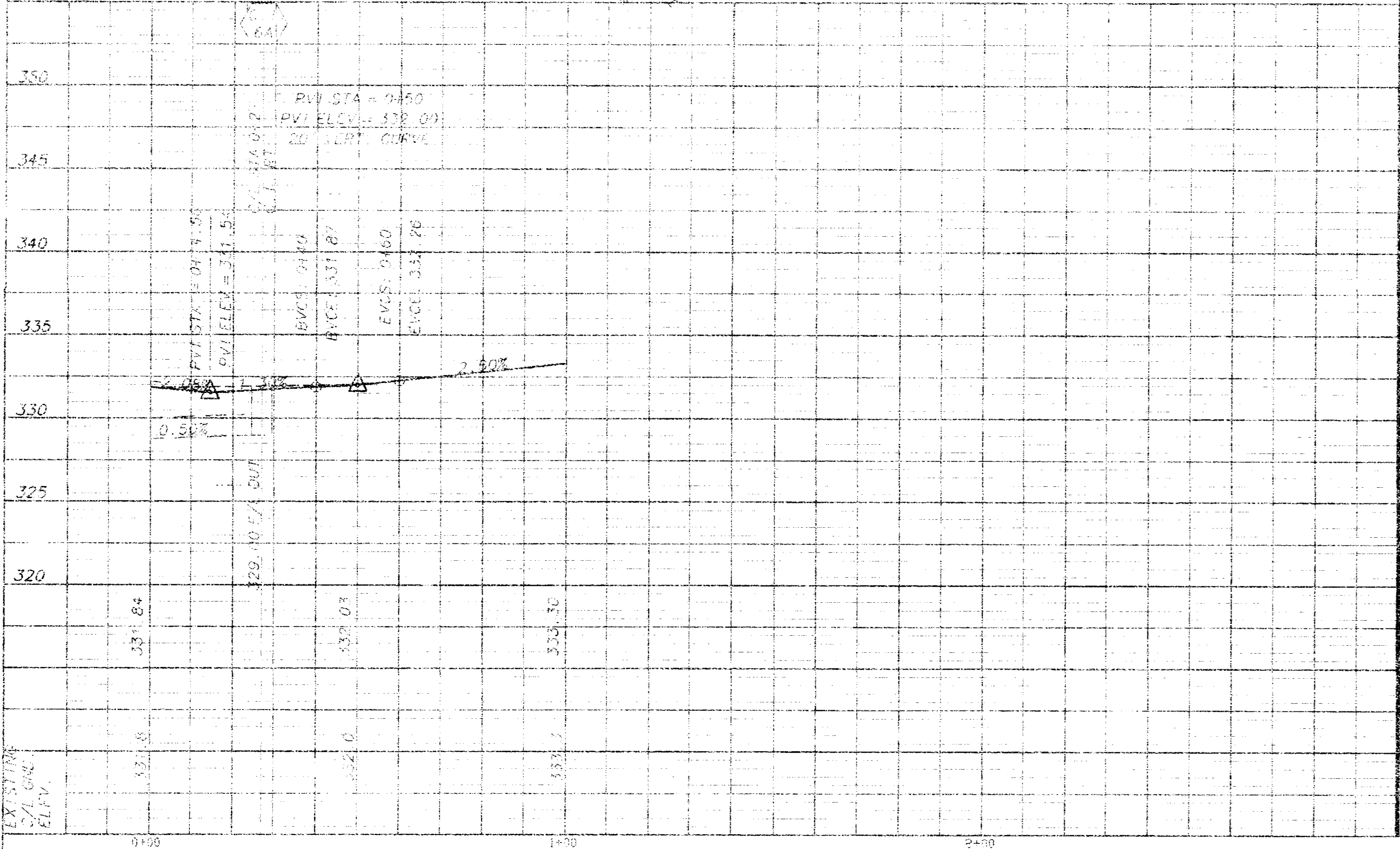
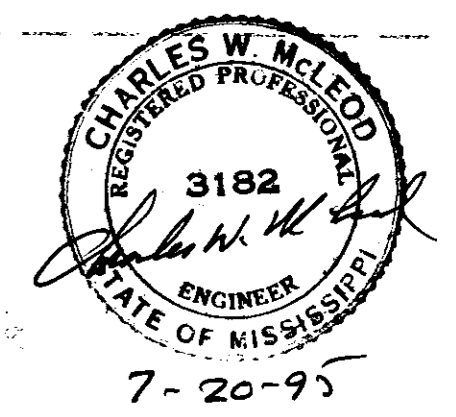
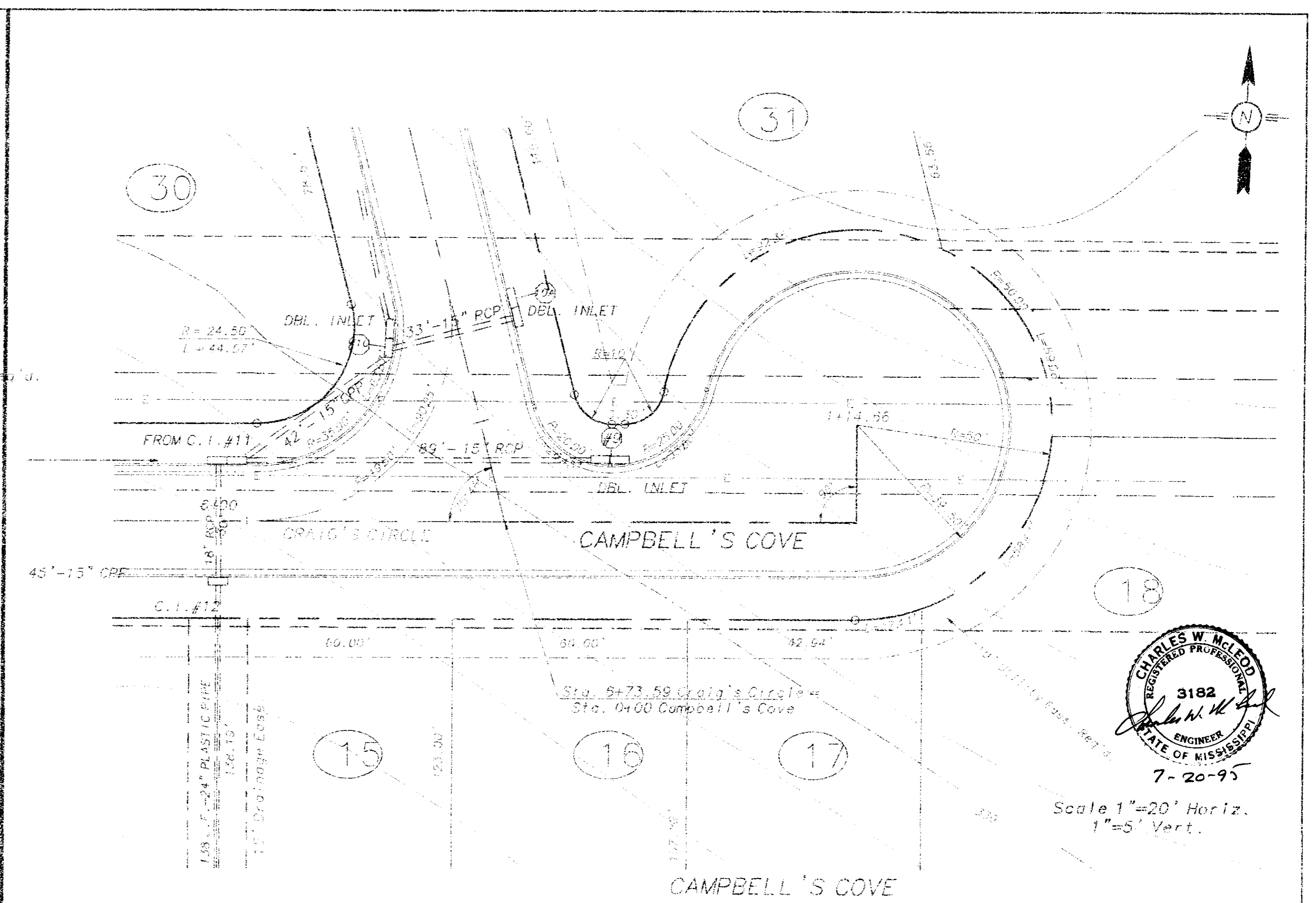
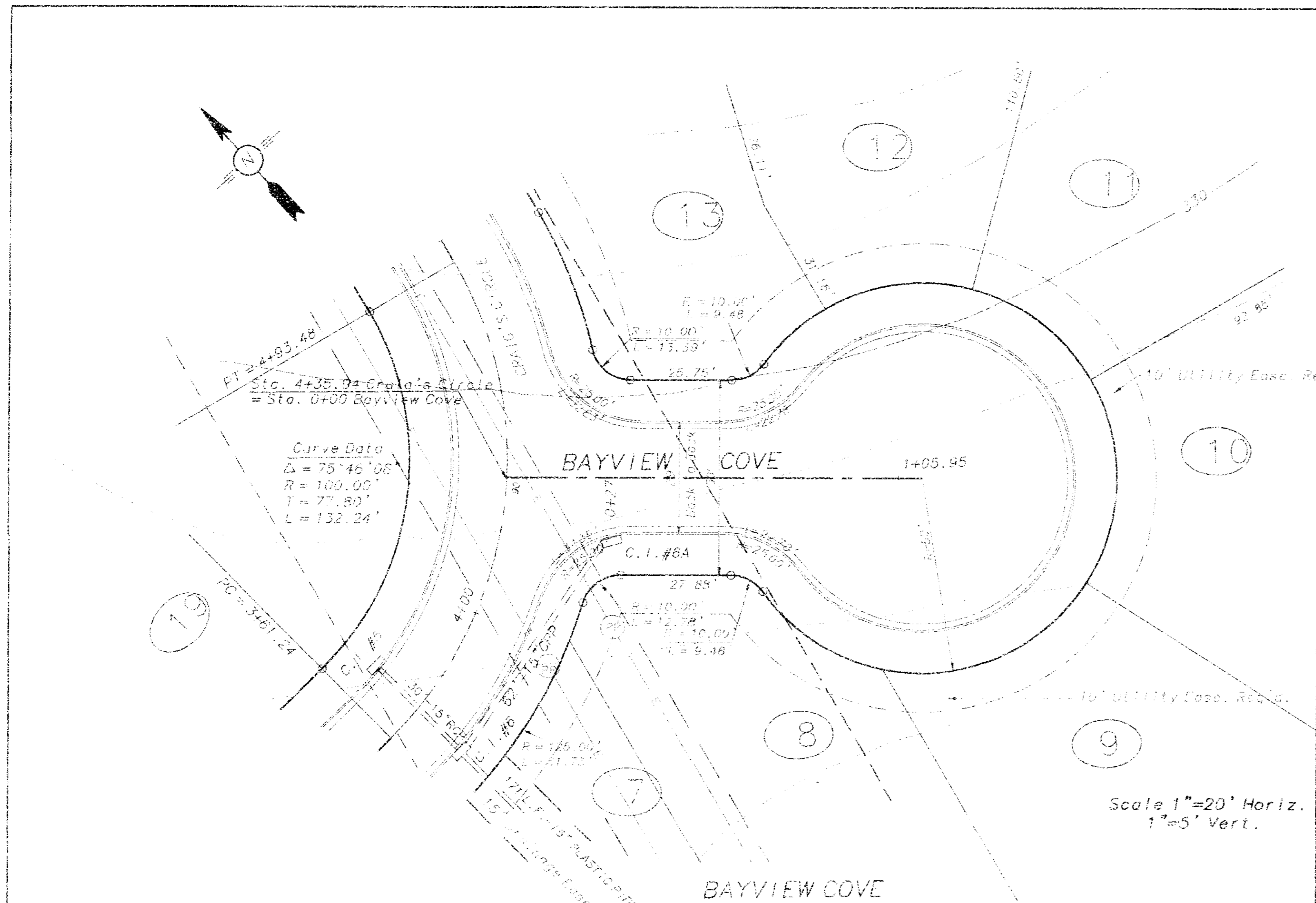


NO BUILT  
DATE 10-14-96  
BY JWS



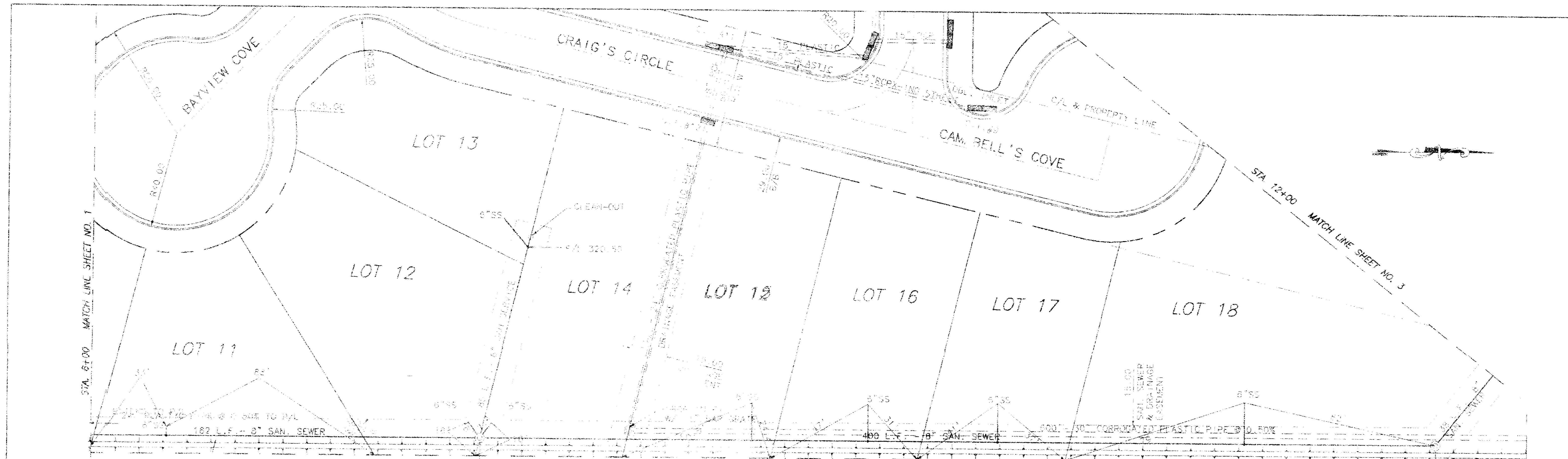
SHT. HCS-15





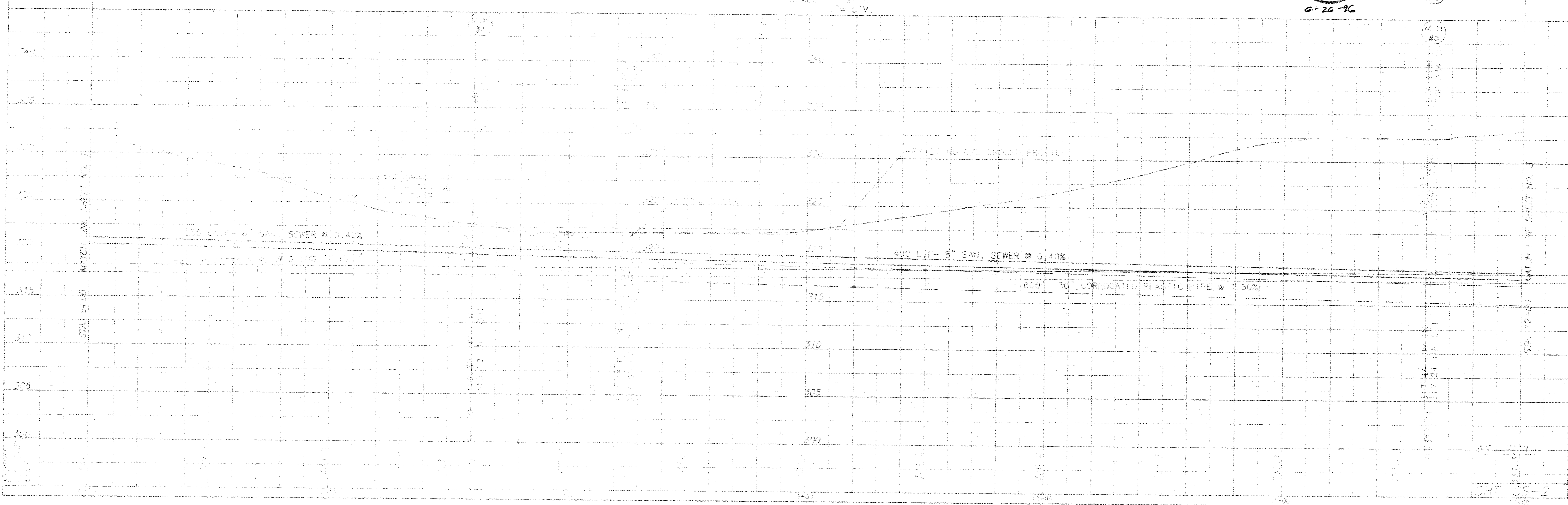
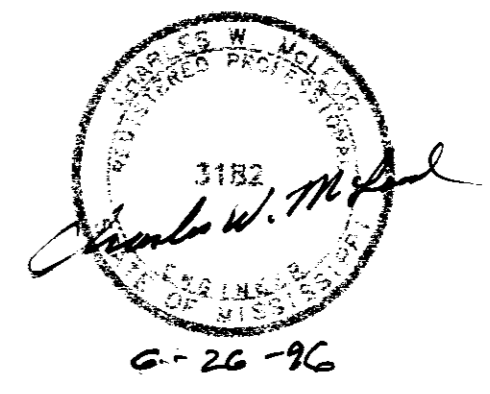
REVISED  
 S-1465-16



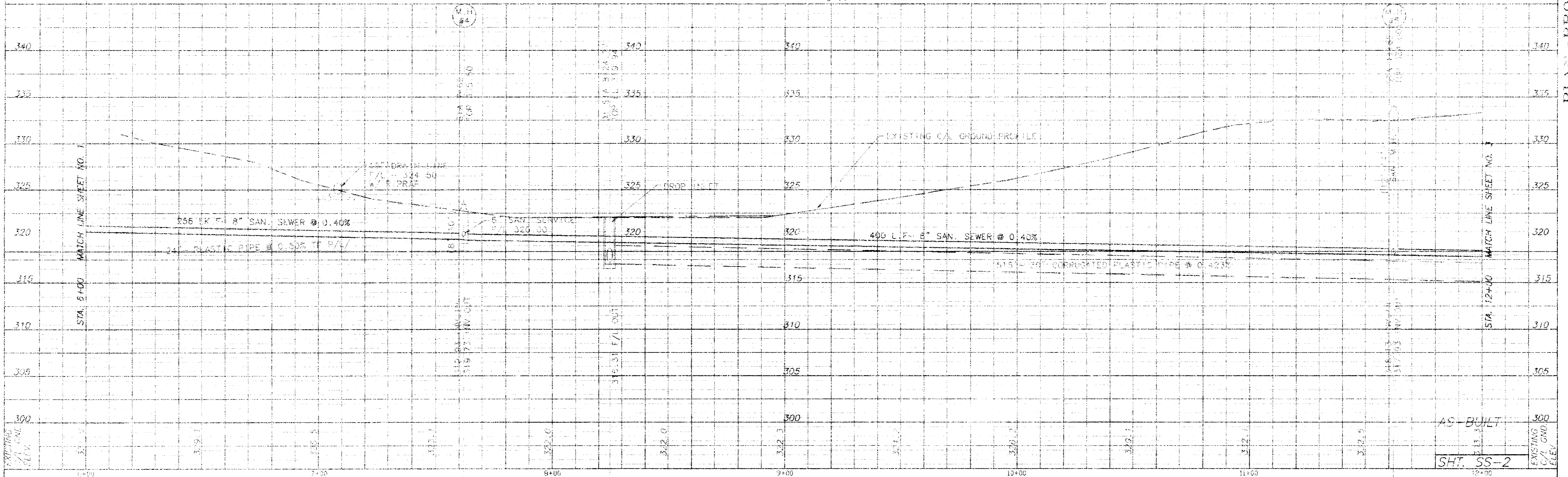
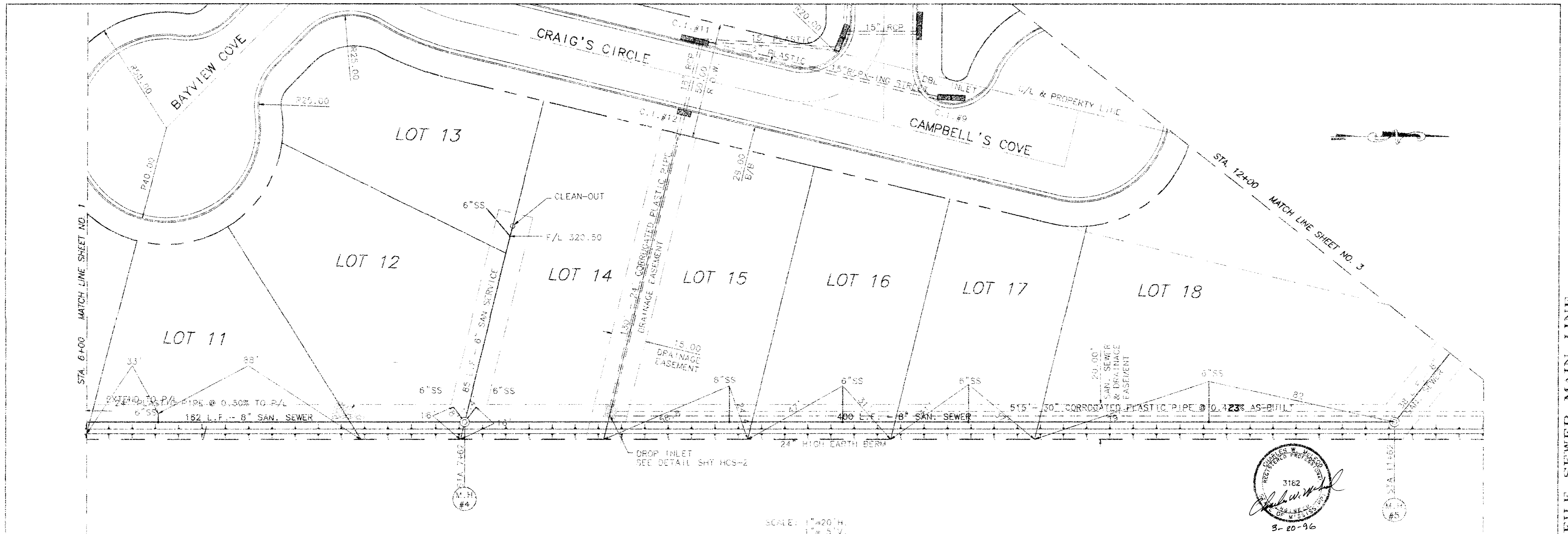


STA. 8+00 MATCH LINE SHEET NO. 1

STA. 12+00 MATCH LINE SHEET NO. 3



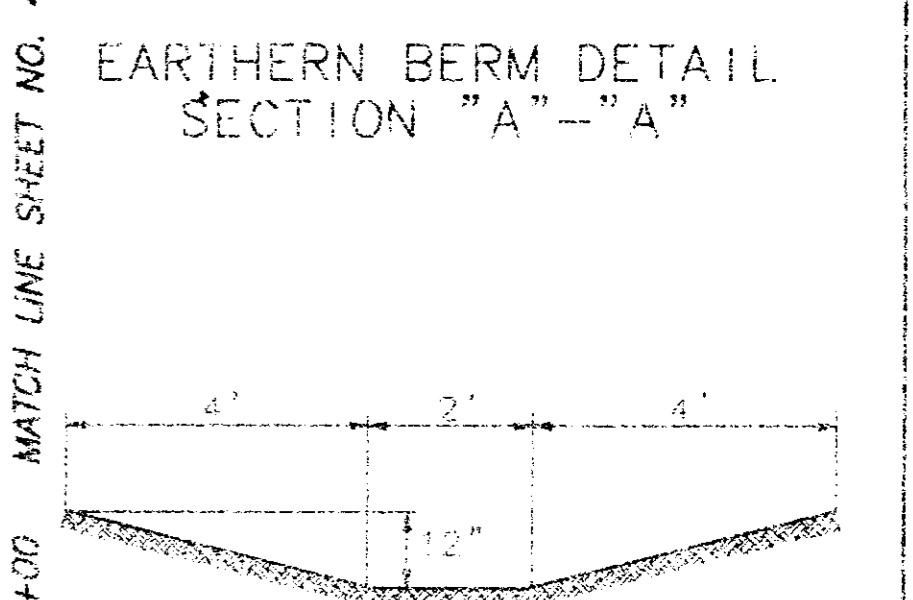
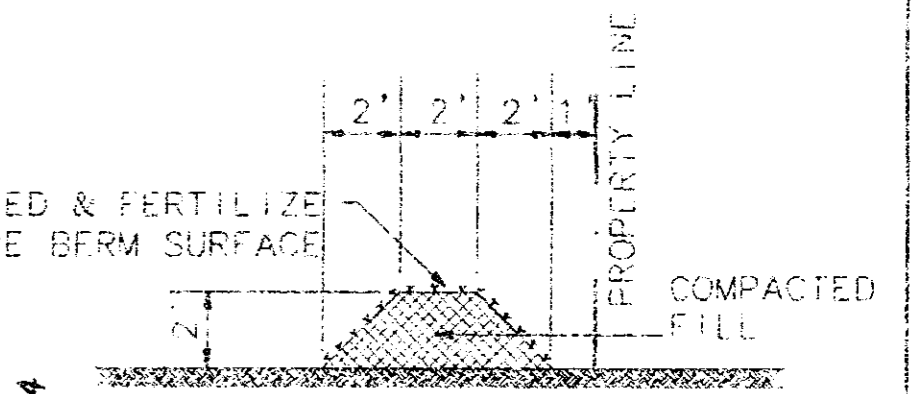
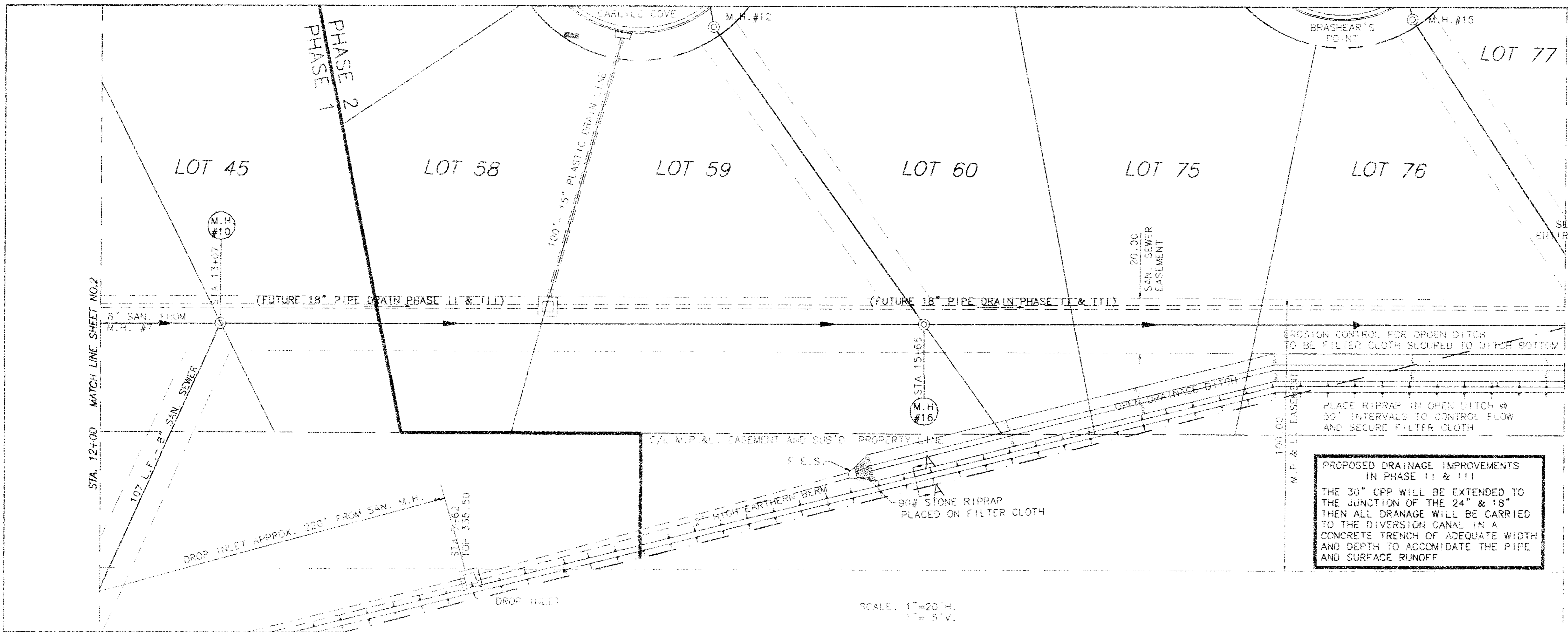
SWT 35-2



3182  
 [Signature]  
 3-20-96

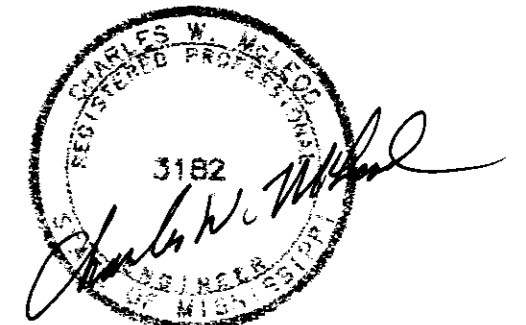
PLAN - PROFILE SEWER MAIN LINE





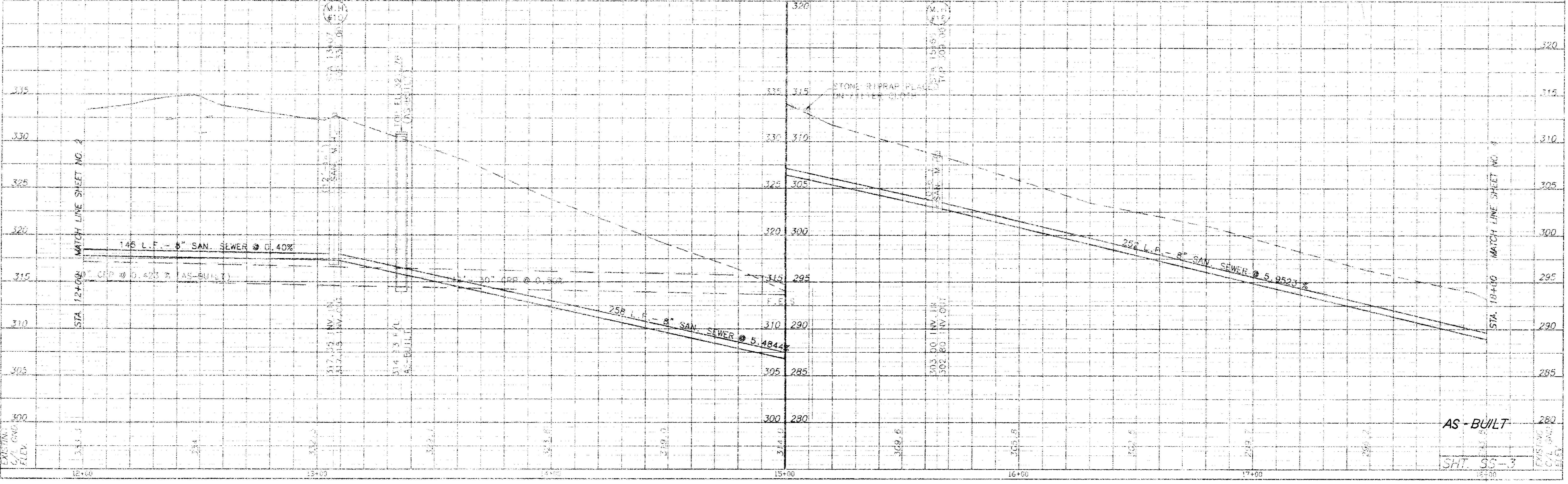
**PROPOSED DRAINAGE IMPROVEMENTS IN PHASE II & III**

THE 30" CPP WILL BE EXTENDED TO THE JUNCTION OF THE 24" & 18" THEN ALL DRAINAGE WILL BE CARRIED TO THE DIVERSION CANAL IN A CONCRETE TRENCH OF ADEQUATE WIDTH AND DEPTH TO ACCOMMODATE THE PIPE AND SURFACE RUNOFF.



3-20-76

SCALE: 1" = 20' H.  
1" = 5' V.



AS-BUILT

SHT. 95-3

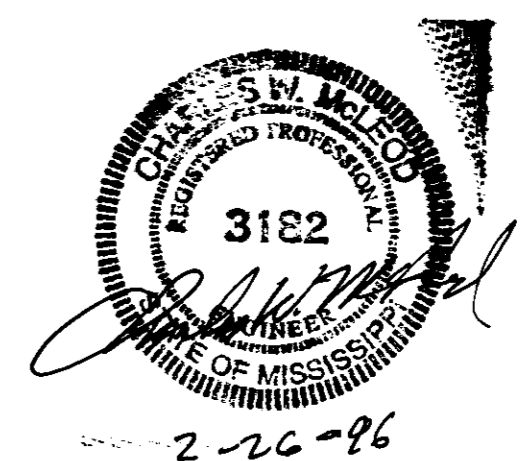
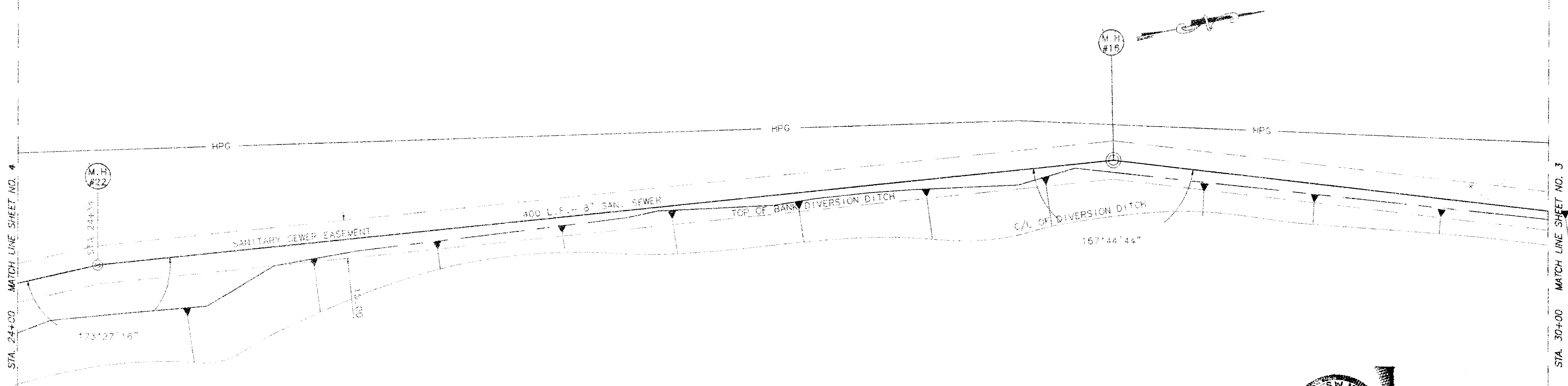




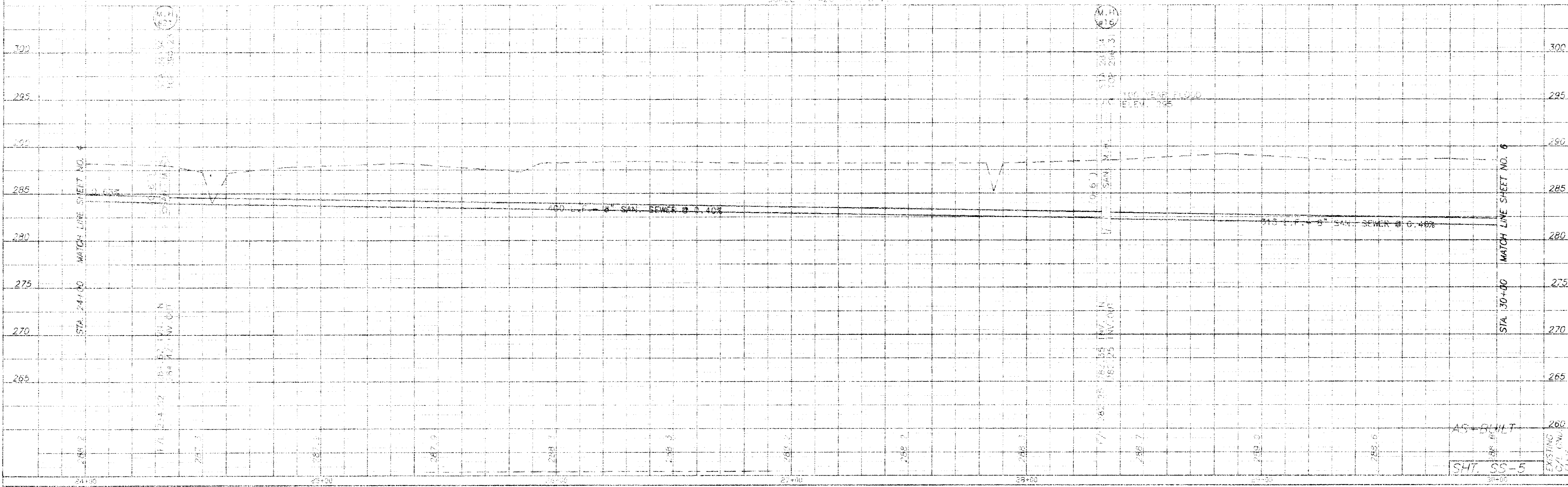


STA. 24+00 MATCH LINE SHEET NO. 4

STA. 30+00 MATCH LINE SHEET NO. 3



SCALE: 1"=20' H. 1"=5' V.



PLAN - PROFILE SEWER MAIN LINE

AS-BUILT  
SHT. 05-5  
EXISTING  
C/L (N.V.)  
ELEV.

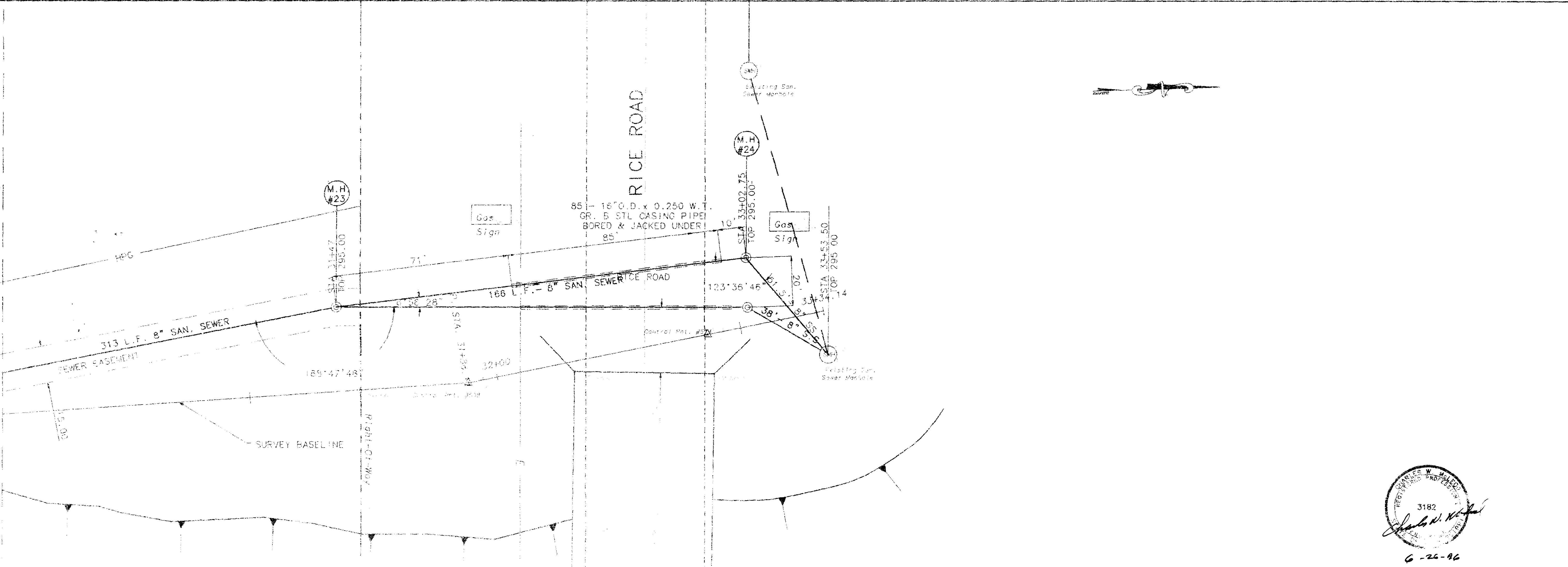
MATCH LINE SHEET NO. 5

STA. 304+00

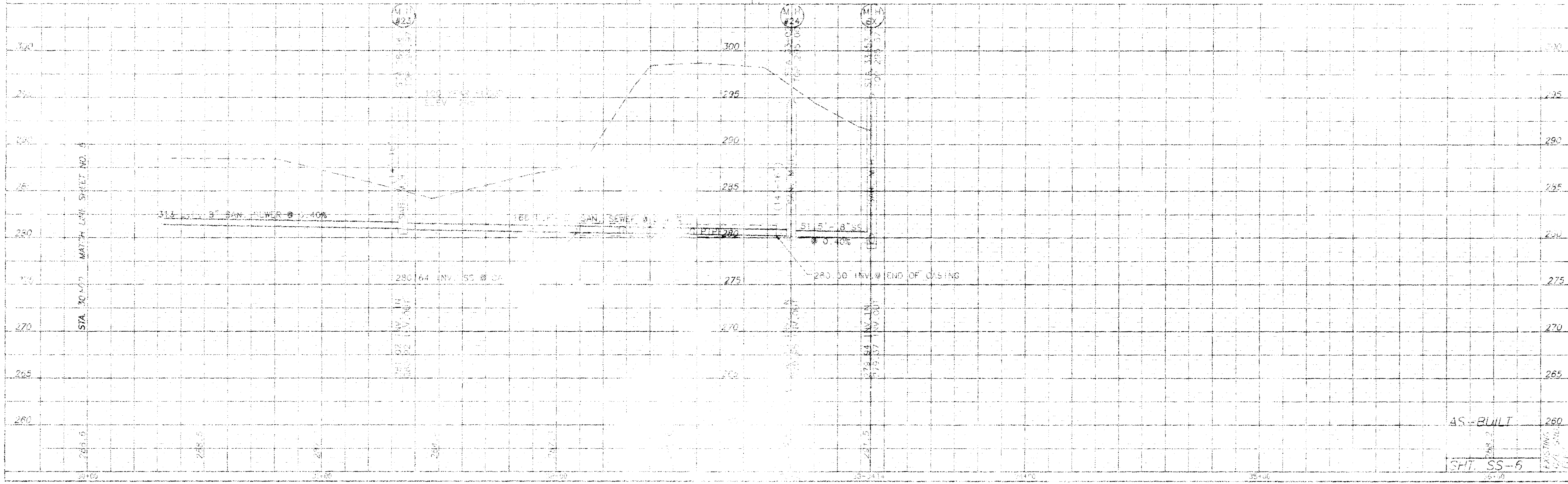
MATCH LINE SHEET NO. 4

STA. 300+00

30+00



3182  
*Charles W. Kelly*  
 6-26-96



AS-BUILT  
 SPT. SS-6

PLAN - PRIVATE SEWER MAIN LINE