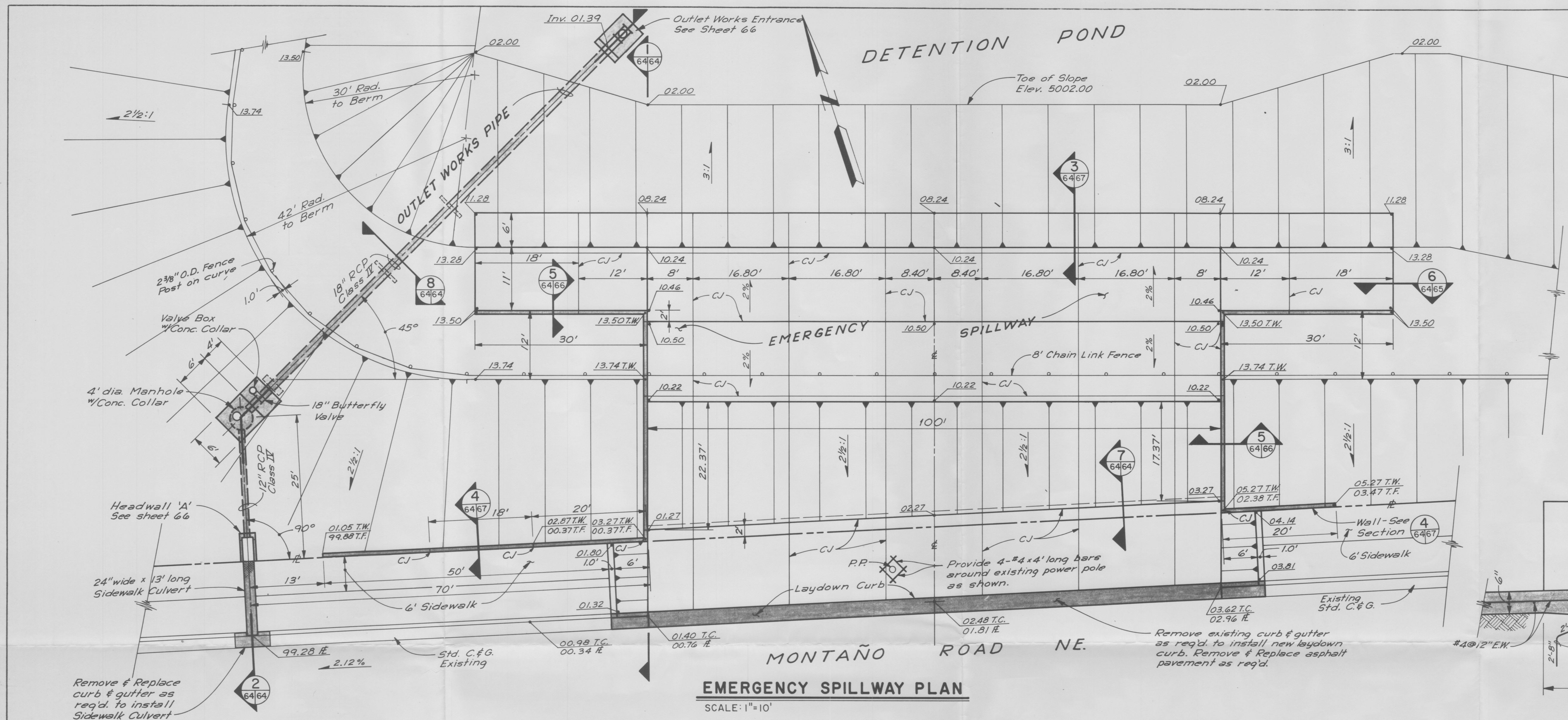
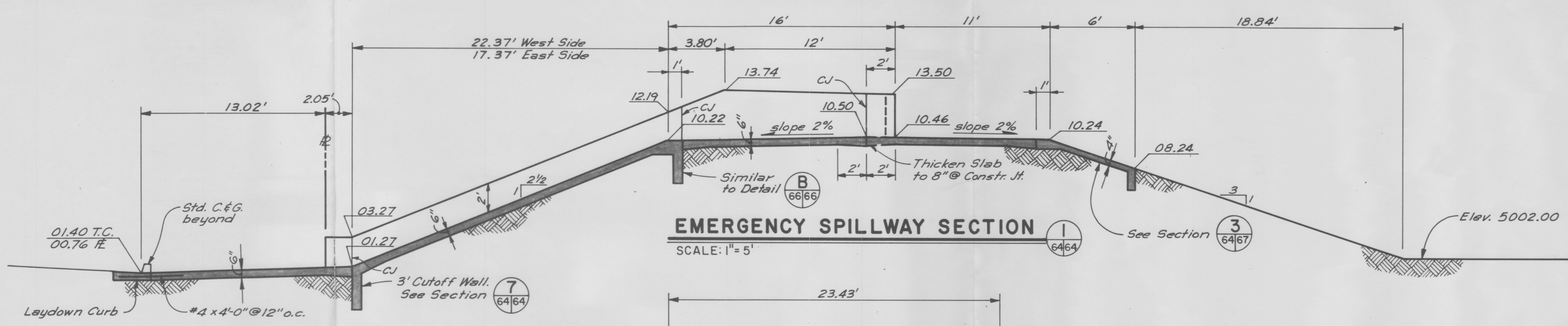
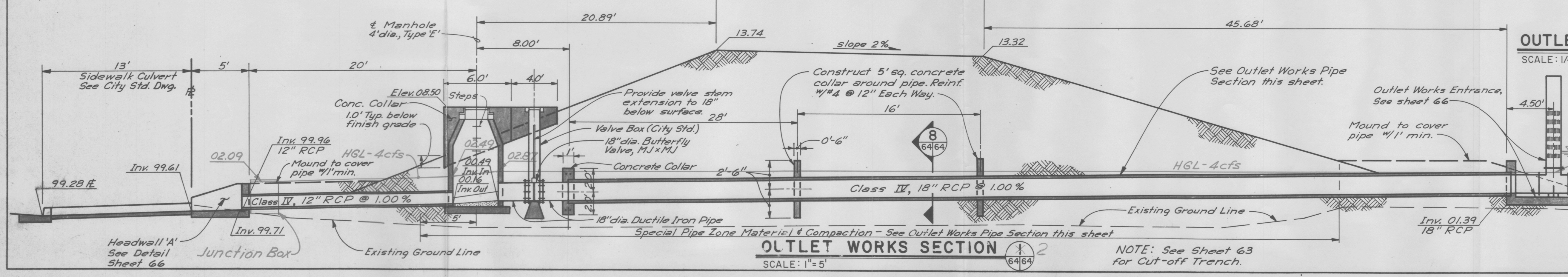




**EMERGENCY SPILLWAY PLAN**  
SCALE: 1"=10'

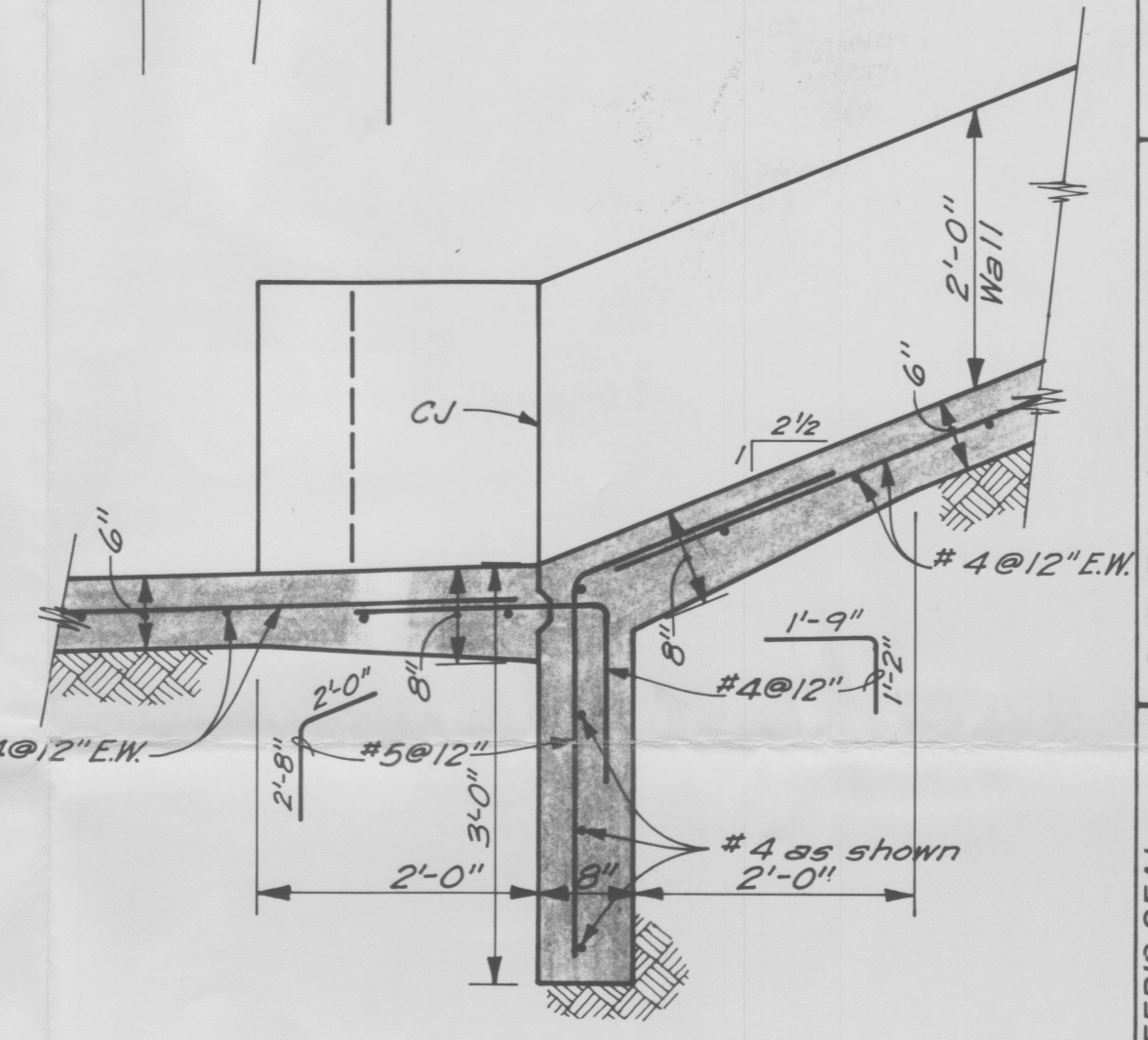


**EMERGENCY SPILLWAY SECTION**  
SCALE: 1"=5'

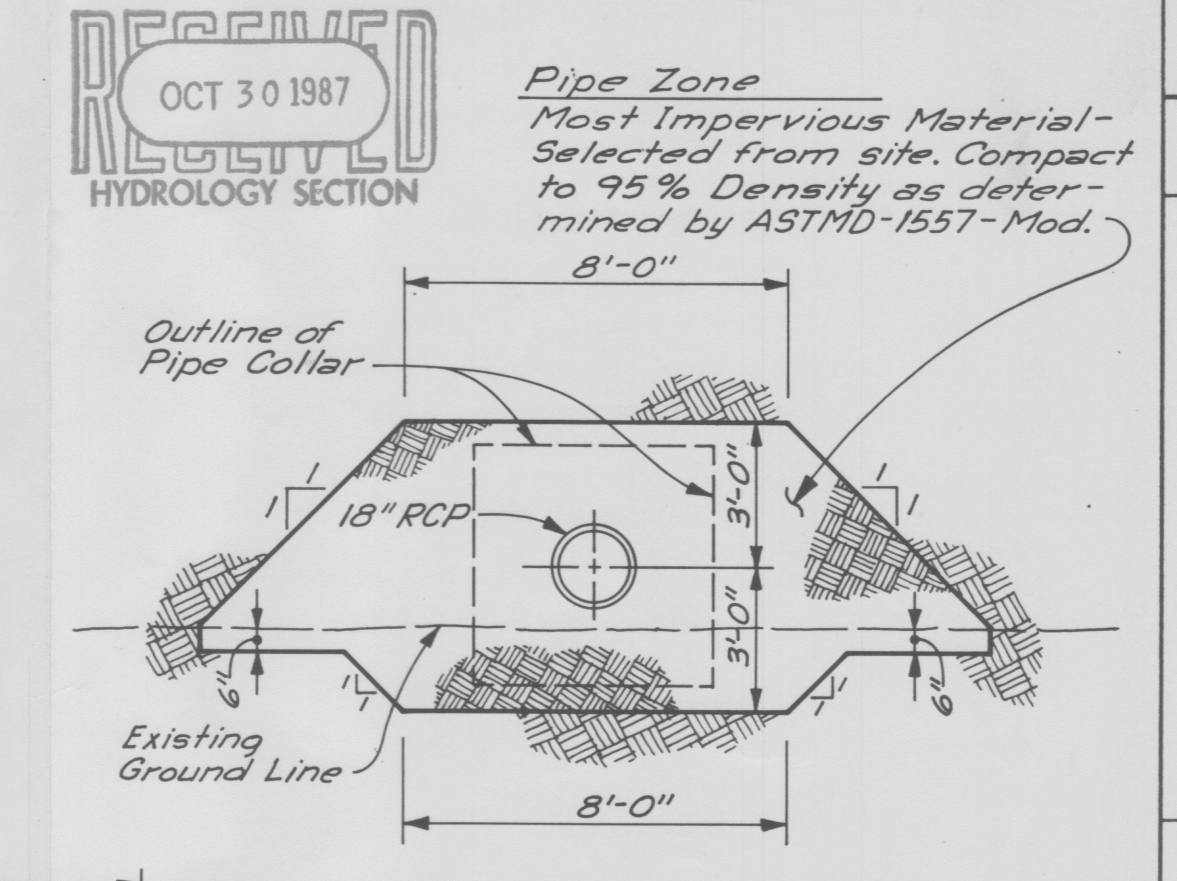


**OUTLET WORKS SECTION**  
SCALE: 1"=5'

See GENERAL NOTES sheet 65



**SECTION 7**  
6464

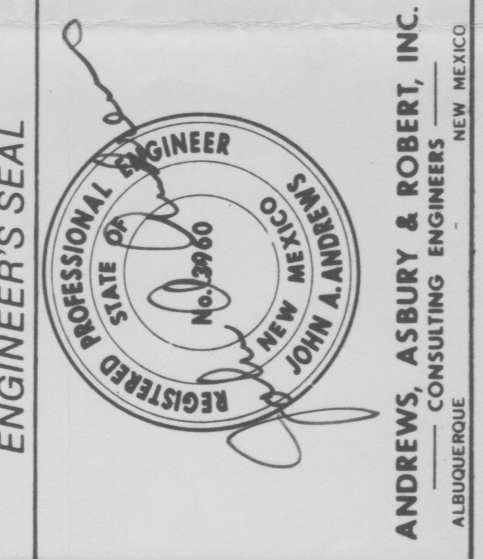


**OUTLET WORKS PIPE SECTION**  
SCALE: 1/4"=1'-0"

**RECORD DRAWING**

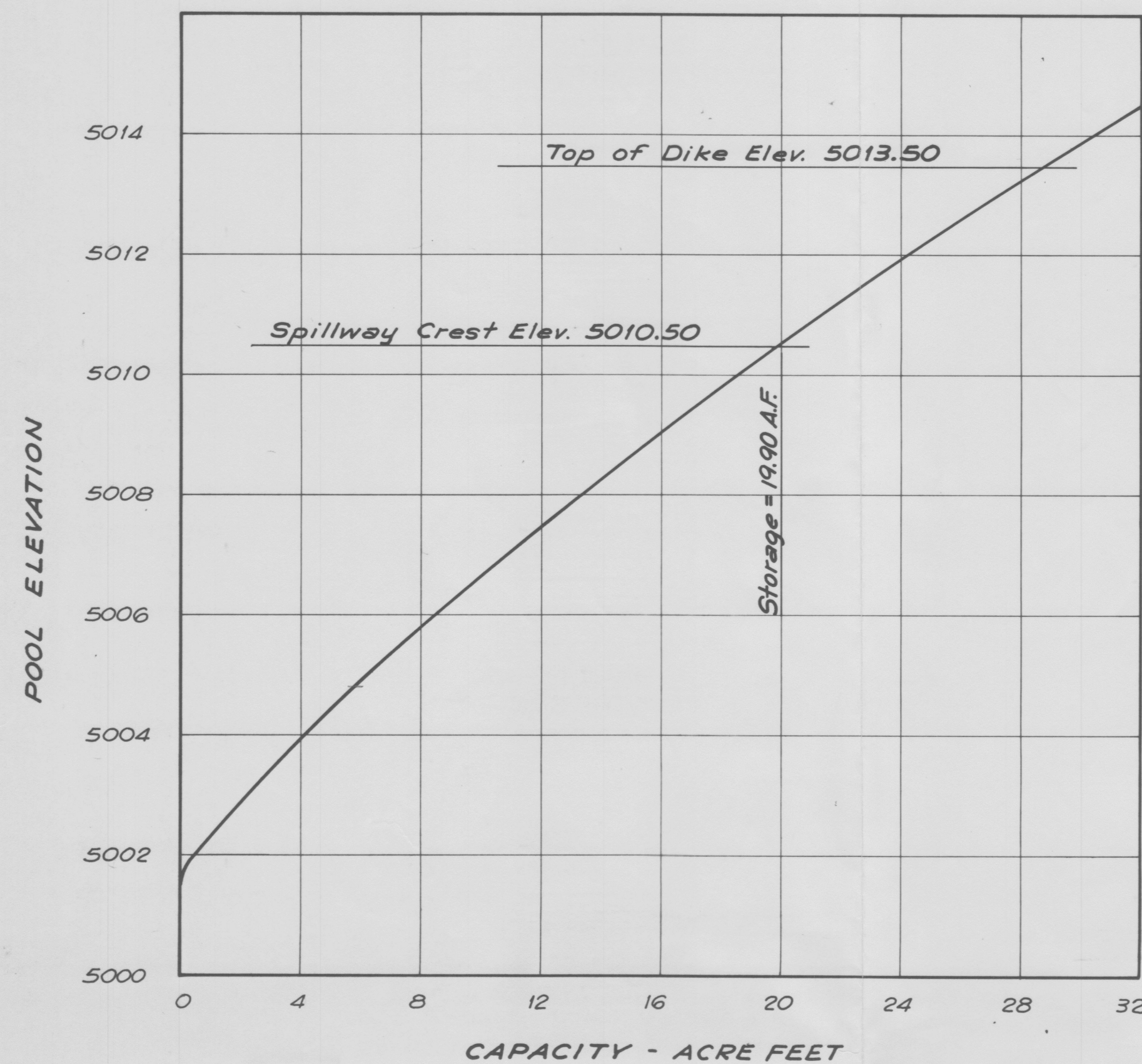
| CITY OF ALBUQUERQUE<br>MUNICIPAL DEVELOPMENT DEPARTMENT<br>ENGINEERING DIVISION |               |                                                     |              |                                         |         |
|---------------------------------------------------------------------------------|---------------|-----------------------------------------------------|--------------|-----------------------------------------|---------|
| <u>04.80</u>                                                                    |               | RENAISSANCE CENTER                                  |              |                                         |         |
| <u>03.01</u>                                                                    |               | DETENTION POND<br>EMERGENCY SPILLWAY & OUTLET WORKS |              |                                         |         |
| APPROVALS                                                                       | ENGINEER      | DATE                                                | APPROVALS    | ENGINEER                                | DATE    |
| City Engineer                                                                   | C. McQuay     | 4/16/85                                             | Liquid Waste | Don                                     | 2/27/85 |
| A.C.E.-Design                                                                   | J.C.S.        | 4/19/85                                             | Traffic      | NA DWH                                  | 2/27/85 |
| Hydrology                                                                       | A.G. Sandoval | 3/22/85                                             | Water        | Don                                     | 2/27/85 |
| DRAWING NO. 2310                                                                |               | MAP NO. F-15, F-16                                  |              | SHEET P-4 OF 7<br>TOTAL SHEETS 64 OF 67 |         |

| AS BUILT INFORMATION   |                    | BENCH MARKS |                                                                                                                                                                                      | SURVEY INFORMATION |    | ENGINEER'S SEAL |      | REVISIONS |      | REMARKS |      |
|------------------------|--------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|-----------------|------|-----------|------|---------|------|
| CONTRACTOR             | G.M. Coen & Assoc. | ACCS STA.   | 2 - F16 - STANDARD ACS BRASS TABLET ON TOP OF CONCRETE POST PROJECTING 0.2 FT. ABOVE GROUND AND LOCATED 0.4 MILE WEST OF I-25 IN THE MEDIAN OF MONTAÑO ROAD NE - ELEVATION = 5062.08 | DATE               | BY | NO.             | DATE | NO.       | DATE | NO.     | DATE |
| WORK BY                | A.A.F.R.           | DATE        | 85                                                                                                                                                                                   |                    |    |                 |      |           |      |         |      |
| FIELD CHECKED BY       | A.A.F.R.           | DATE        | 85                                                                                                                                                                                   |                    |    |                 |      |           |      |         |      |
| REVISIONS              |                    |             |                                                                                                                                                                                      |                    |    |                 |      |           |      |         |      |
| CORRECTED BY           | A.A.F.R.           | DATE        | 10/85                                                                                                                                                                                |                    |    |                 |      |           |      |         |      |
| RECORDED BY            |                    | DATE        |                                                                                                                                                                                      |                    |    |                 |      |           |      |         |      |
| MICRO-FILM INFORMATION |                    | NO.         |                                                                                                                                                                                      | DATE               |    | NO.             |      | DATE      |      | NO.     |      |
|                        |                    |             |                                                                                                                                                                                      |                    |    |                 |      |           |      |         |      |

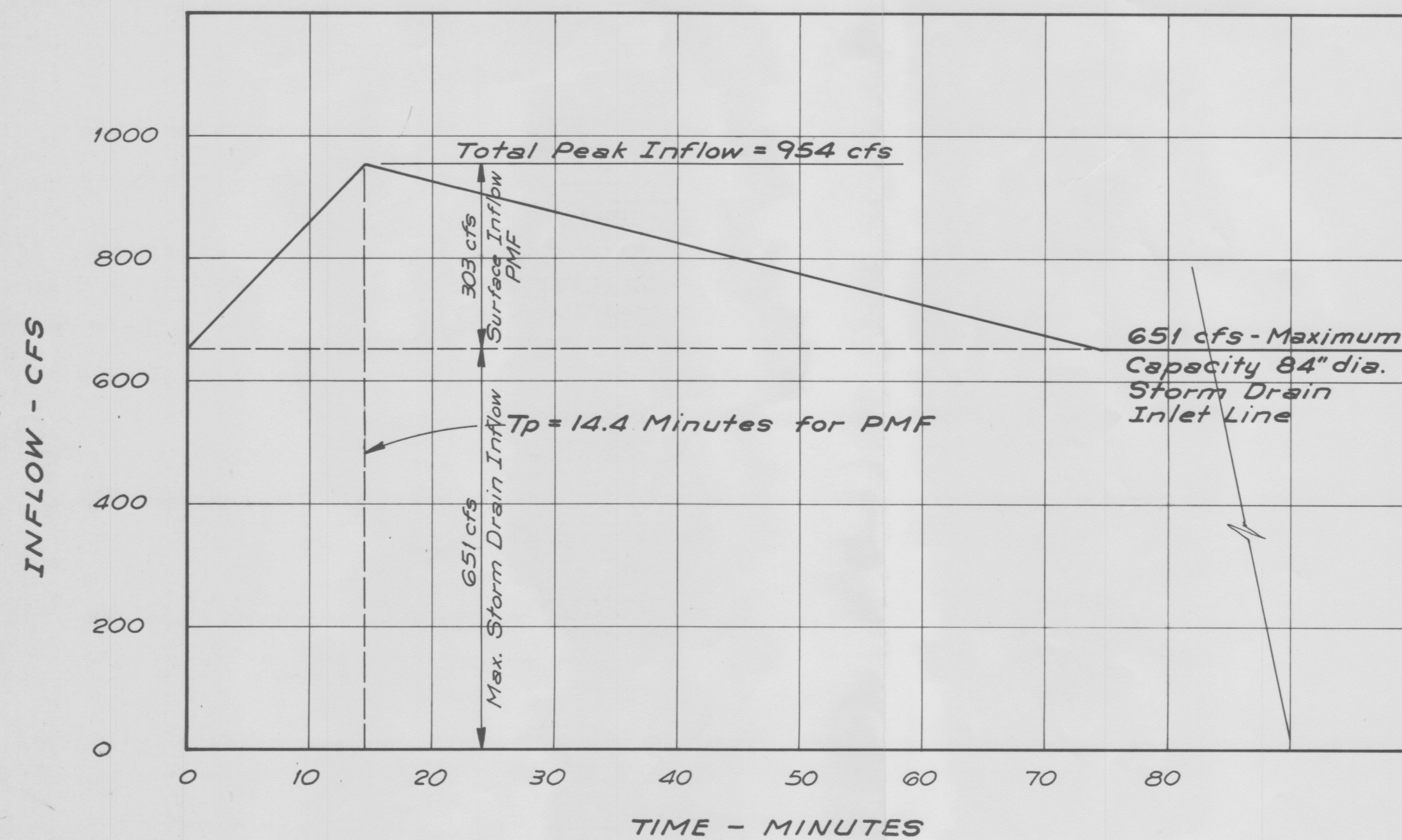


ANDREWS, ASSUR & ROBERT, INC.  
ALBUQUERQUE, NEW MEXICO





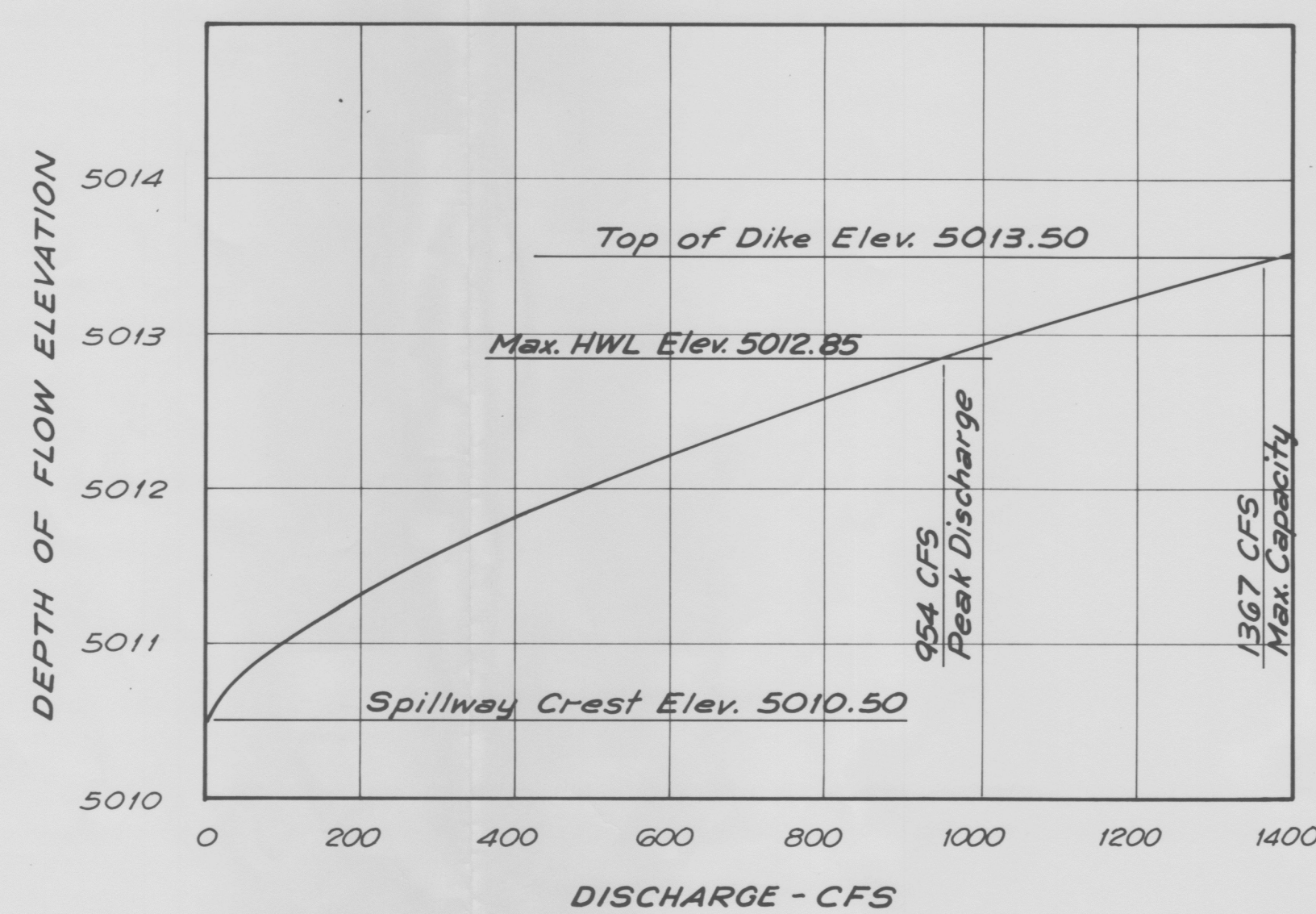
**STORAGE CAPACITY CURVE**



**INFLOW HYDROGRAPH**

**NOTE:**

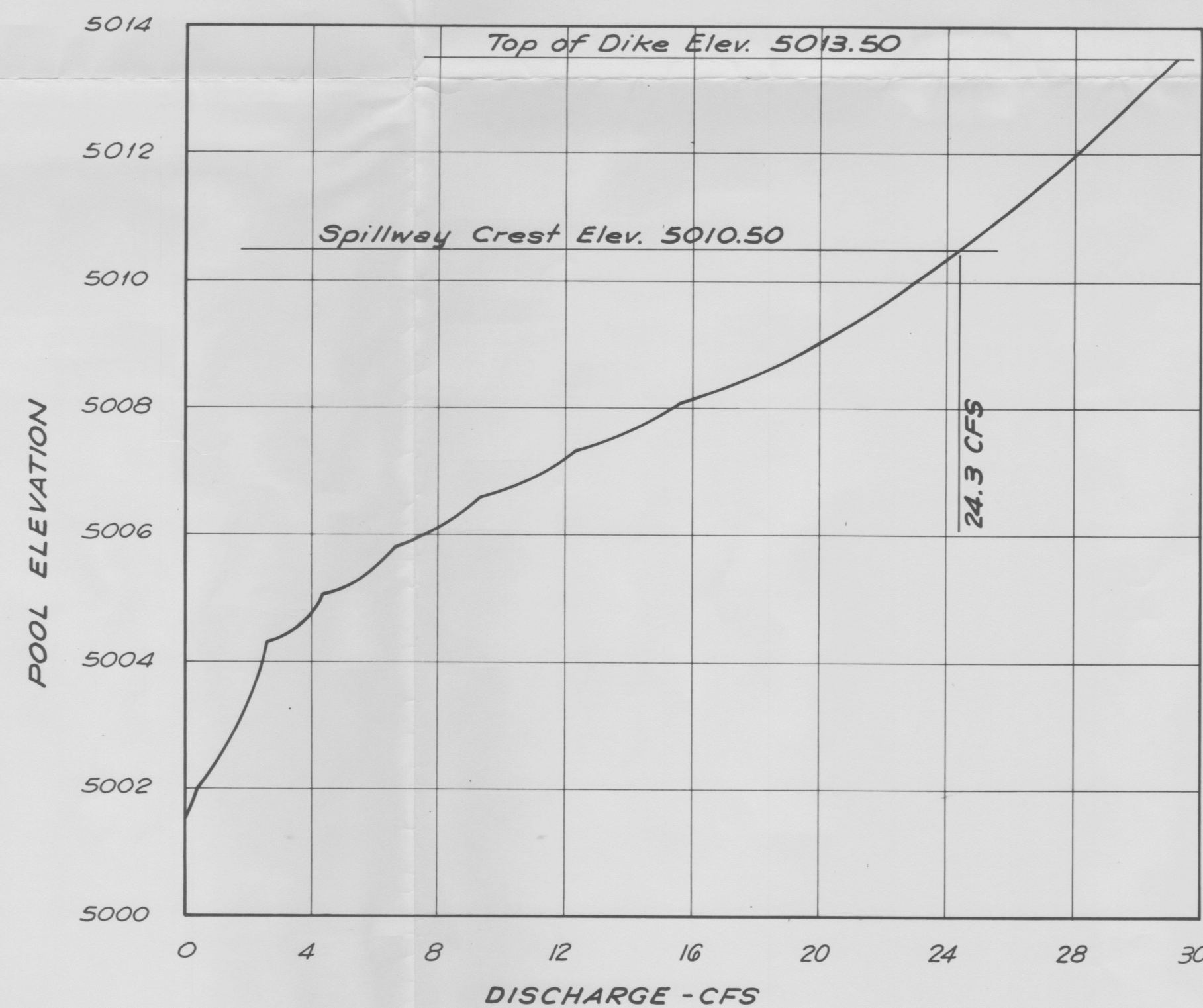
Inflow Hydrograph developed from maximum Capacity of 84" Diameter Storm Drain Inlet Line plus PMF Runoff from portion of drainage area that drains to Detention Pond by Surface means.



**EMERGENCY SPILLWAY RATING CURVE**

**SPILLWAY RATING CURVE FORMULA**

$$Q = CLH^{3/2}, C = 2.63, L = 100 \text{ Ft.}$$



**OUTLET WORKS DISCHARGE CURVE**

**MAP OF THE RENAISSANCE DETENTION POND**

FIRST WESTERN MONTANO JOINT VENTURE, APPLICANT LOCATED IN BERNALILLO COUNTY, STATE OF NEW MEXICO. ALL COURSES TRUE. SCALE OF MAP, 1 INCH = 200 FEET. THE UNDERSIGNED, FIRST WESTERN MONTANO JOINT VENTURE, CLAIMANT, WHOSE POST OFFICE ADDRESS IS 6605 UPTOWN BOULEVARD NE, SUITE 380, ALBUQUERQUE, COUNTY OF BERNALILLO, STATE OF NEW MEXICO, HAS CAUSED TO BE LOCATED BY A QUALIFIED REGISTERED ENGINEER, THE RENAISSANCE DETENTION POND AS HEREINAFTER DESCRIBED AND INDICATED, HEREBY MAKES THESE SEVERAL STATEMENTS RELATIVE THERETO AND OFFERS THIS MAP AND STATEMENTS FOR ACCEPTANCE AND FILING IN COMPLIANCE WITH THE LAWS OF THE STATE OF NEW MEXICO.

THE OUTLET STRUCTURE FROM THE DETENTION POND IS LOCATED IN THE NORTHEAST QUARTER (NE $\frac{1}{4}$ ) OF THE SOUTHEAST QUARTER (SE $\frac{1}{4}$ ) OF SECTION 33, TOWNSHIP 11 NORTH, RANGE 3 EAST, N.M.P.M., AT A POINT WHOSE STATE PLANE COORDINATES ARE X = 388,483.66, Y = 1,504,982.63, CENTRAL ZONE.

THE RENAISSANCE DETENTION POND HAS THE FOLLOWING PROPERTIES:

|                                                 |                    |
|-------------------------------------------------|--------------------|
| MAXIMUM HEIGHT ABOVE FOUNDATION                 | 15 FEET            |
| LENGTH OF DIKE                                  | 1134 FEET          |
| MAXIMUM WIDTH AT BASE                           | 86 FEET            |
| CREST WIDTH                                     | 12 FEET            |
| SLOPE UPSTREAM FACE                             | 3:1                |
| SLOPE DOWNSTREAM FACE                           | 2 $\frac{1}{2}$ :1 |
| ELEVATION AT CREST OF DIKE                      | 5013.50            |
| ELEVATION AT SPILLWAY CREST                     | 5010.50            |
| ELEVATION AT BOTTOM OPENING OF OUTLET STRUCTURE | 5001.50            |
| ELEVATION OF FLOWLINE OF OUTLET CONDUIT         | 5001.39            |
| FREEBOARD                                       | 0.64 FEET          |
| WIDTH OF SPILLWAY                               | 100 FEET           |
| DISCHARGE CAPACITY OF SPILLWAY                  | 1367 CFS           |
| OUTLET CONDUIT, TYPE AND SIZE                   | 18" RCP            |
| OUTLET CONDUIT, CAPACITY AT SPILLWAY CREST      | 24.30 CFS          |
| EVACUATION TIME                                 | 55 HOURS           |
| DRAINAGE AREA                                   | 263.50 ACRES       |
| CONTROLLED INFLOW FROM STORM DRAIN              | 237.50 ACRES       |
| SURFACE INFLOW FROM PMP STORM                   | 26 ACRES           |

OUTLET CONDUIT IS CONTROLLED BY 18" BUTTERFLY VALVE. VALVE OPERATION IS THE SOLE RESPONSIBILITY OF THE OWNER: FIRST WESTERN-MONTANO JOINT VENTURE.

STATE OF NEW MEXICO )  
COUNTY OF BERNALILLO )

I, FIRST WESTERN MONTANO JOINT VENTURE, ON BEHALF OF FIRST WESTERN MONTANO JOINT VENTURE, BEING FIRST DULY SWORN, UPON MY OATH, STATE THAT I HAVE READ AND EXAMINED THE ACCOMPANYING MAP AND STATEMENTS (MAPS AND STATEMENTS CONSISTING OF 7 SHEETS) AND KNOW THE CONTENTS THEREOF AND REPRESENTATIONS THEREON, AND STATE THAT THE SAME ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

FIRST WESTERN MONTANO JOINT VENTURE, CLAIMANT

SUBSCRIBED AND SWORN TO BEFORE ME THIS        DAY OF       , 198      .

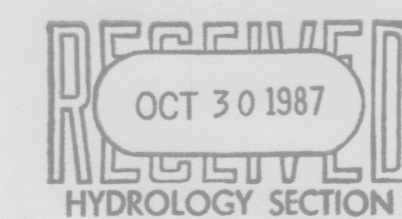
NOTARY PUBLIC

MY COMMISSION EXPIRES:       

I, JOHN A. ANDREWS, BEING FIRST DULY SWORN, UPON MY OATH STATE THAT I AM THE REGISTERED ENGINEER WHO MADE THE MAP(S) OF THE RENAISSANCE DETENTION POND, THAT SUCH MAP(S) CONSISTING OF 7 SHEETS WERE PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY DIRECTION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LICENSE NO. 3960

REGISTERED ENGINEER



I HEREBY CERTIFY THAT THE ACCOMPANYING MAP(S) AND STATEMENTS HAVE BEEN EXAMINED BY ME AND APPROVED AS TO FORM AND CONTENT, AND WERE DULY ACCEPTED FOR FILING ON THE        DAY OF       , 198      .

STATE ENGINEER

**MYLAR REPRODUCIBLE WITH ALL APPROVAL SIGNATURES IS ON FILE IN THE OFFICE OF THE STATE ENGINEER.**

**RECORD DRAWING**

|                                                                                    |                    |              |              |
|------------------------------------------------------------------------------------|--------------------|--------------|--------------|
| CITY OF ALBUQUERQUE<br>MUNICIPAL DEVELOPMENT DEPARTMENT<br>ENGINEERING DIVISION    |                    |              |              |
| RENAISSANCE CENTER<br>RENAISSANCE DETENTION POND<br>HYDROLOGY & MISCELLANEOUS DATA |                    |              |              |
| APPROVALS                                                                          | ENGINEER           | DATE         | APPROVALS    |
| City Engineer                                                                      | <i>[Signature]</i> | 4/10/85      | Liquid Waste |
| A.C.E. Design                                                                      | <i>[Signature]</i> | 4/9/85       | Traffic      |
| Hydrology                                                                          | <i>[Signature]</i> | 3/22/85      | Water        |
| DESIGNED BY                                                                        | J.A. RT            | DATE         | Dec. '84     |
| DRAWN BY                                                                           | J.V.               | DATE         | Dec. '84     |
| CHECKED BY                                                                         | J.A.               | DATE         | Dec. '84     |
| DRAWING NO.                                                                        | 2310               | MAP NO.      | F-15, F-16   |
|                                                                                    |                    | SHEET        | P-1 OF 7     |
|                                                                                    |                    | TOTAL SHEETS | 61 OF 67     |

| AS BUILT INFORMATION |                     | BENCH MARKS |      | SURVEY INFORMATION |      | ENGINEER'S SEAL |      |
|----------------------|---------------------|-------------|------|--------------------|------|-----------------|------|
| CONTRACTOR           | G. H. Coen & Assoc. | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| WORK                 | BY A.A. & R.        | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| INSPECTION           | BY A.A. & R.        | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| ACCEPTANCE           | BY A.A. & R.        | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| VERIFICATION         | BY A.A. & R.        | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| DRAWING              | BY A.A. & R.        | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| REVISIONS            | BY A.A. & R.        | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| DESIGNED BY          | J.A. RT             | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| DRAWN BY             | J.V.                | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| CHECKED BY           | J.A.                | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| RECORDED BY          | NO                  | NO.         | DATE | NO.                | DATE | NO.             | DATE |