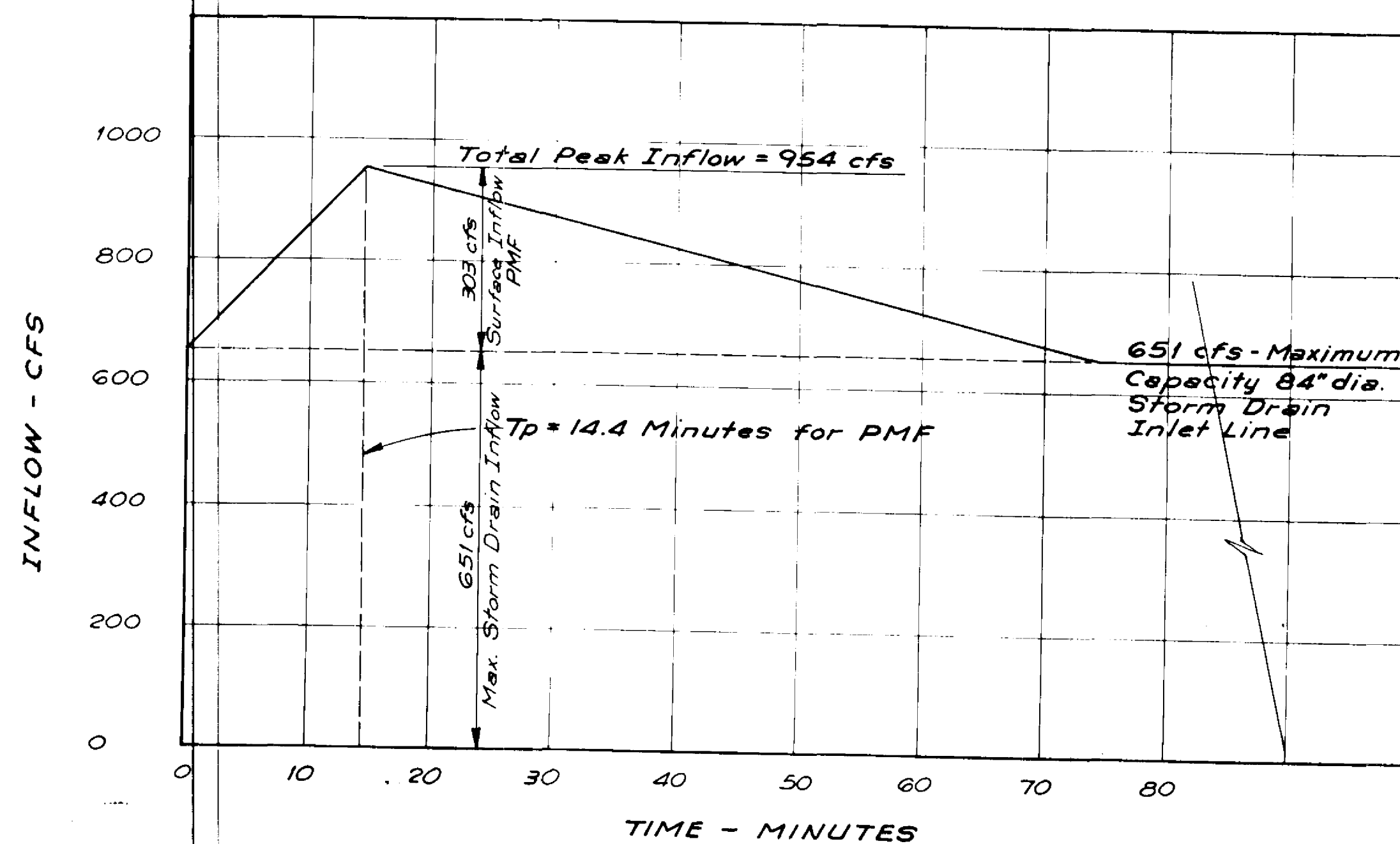


STORAGE CAPACITY CURVE

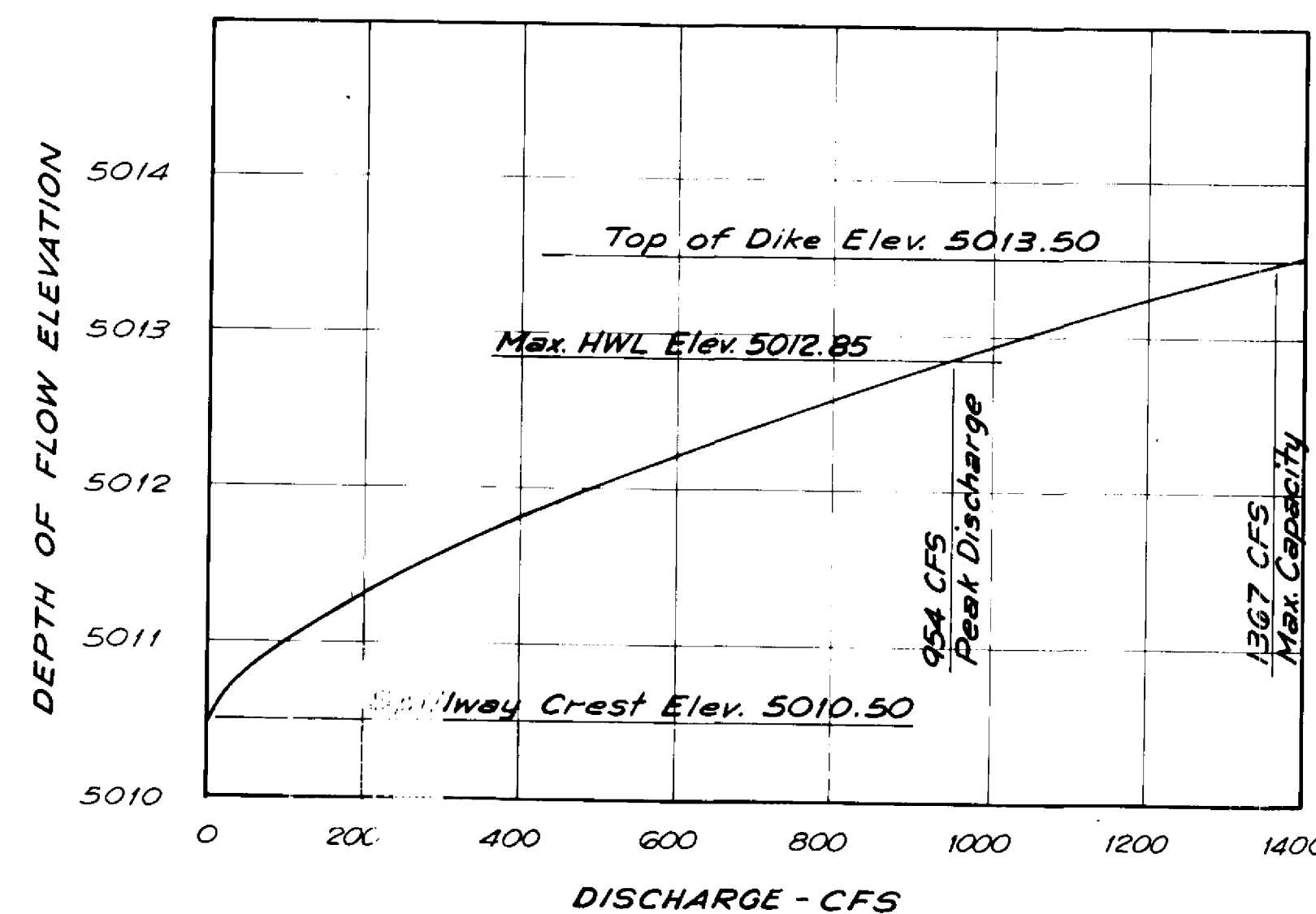


INFLOW HYDROGRAPH

APPLICATION NO. 3450
RECEIVED
OFFICE OF STAT
SANTA FE, NEW MEXICO

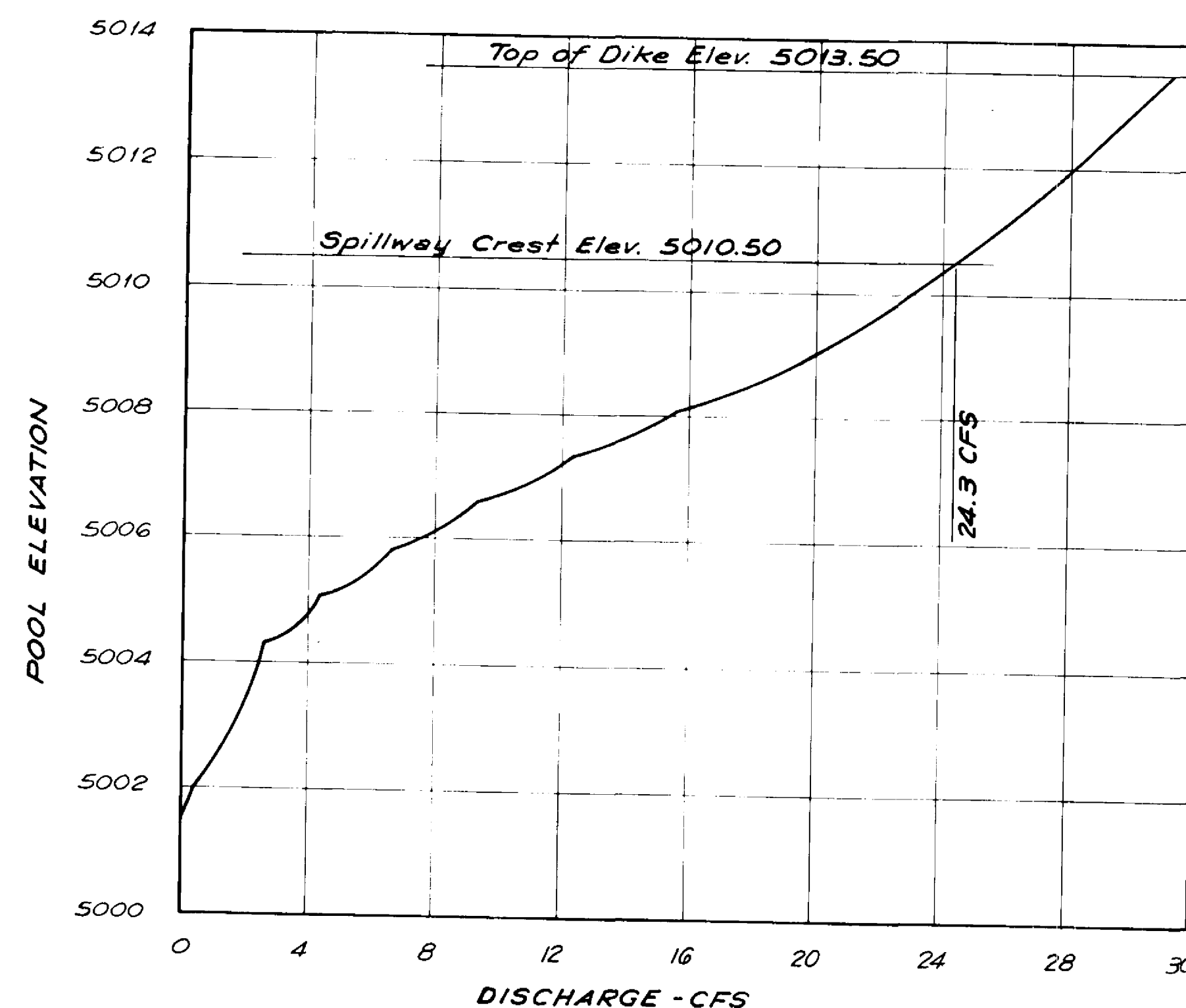
NOTE:

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
 $Q = C L H^{3/2}$, $C = 2.63$, $L = 100$ 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 (NE1/4) OF THE SOUTHEAST QUARTER (SE1/4) 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 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
FREEDBOARD	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 PMF STORM	26 ACRES

OUTLET CONDUIT IS CONTROLLED BY 16" BUTTERFLY VALVE. VALVE OPERATION IS THE SOLE RESPONSIBILITY OF THE OWNER: FIRST WESTERN-MONTANO JOINT VENTURE.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

I, JOHN A. ANDREWS, 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__.

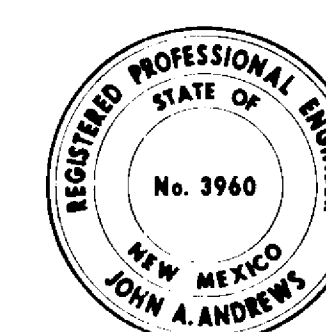
NOTARY PUBLIC

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. 3360

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 MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
RENAISSANCE CENTER RENAISSANCE DETENTION POND HYDROLOGY & MISCELLANEOUS DATA					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/1/85	Liquid Waste	<i>[Signature]</i>	3/13/85
A.C.E.-Design	<i>[Signature]</i>	4/2/85	Traffic	<i>[Signature]</i>	7/1/85
Hydrology	<i>[Signature]</i>	3/27/85	Water	<i>[Signature]</i>	7/1/85
DRAWING NO.	2310	MAP NO.	F-15, F-16	SHEET P-1 OF 7	TOTAL SHEETS 61 OF 67

AS BUILT INFORMATION		CONTRACTOR		G. M. Coen, P. Assoc.	
WORK	BY	DATE	INSPECTORS	DATE	85
APPROVALS	BY	DATE	APPROVALS	BY	DATE
VERIFICATION	BY	DATE	VERIFICATION	BY	DATE
RECORDING	BY	DATE	RECORDING	BY	DATE
NO.	DATE	NO.	DATE	NO.	DATE

LEGEND

- Drainage Basin Boundary
- Sub Basin Boundary
- B-15 13.13 Ac. Sub Basin Identification No. Sub Basin Area in Acres

NOTE:
Total Drainage Area = 259.68 Acres

RENAISSANCE
DETENTION
POND

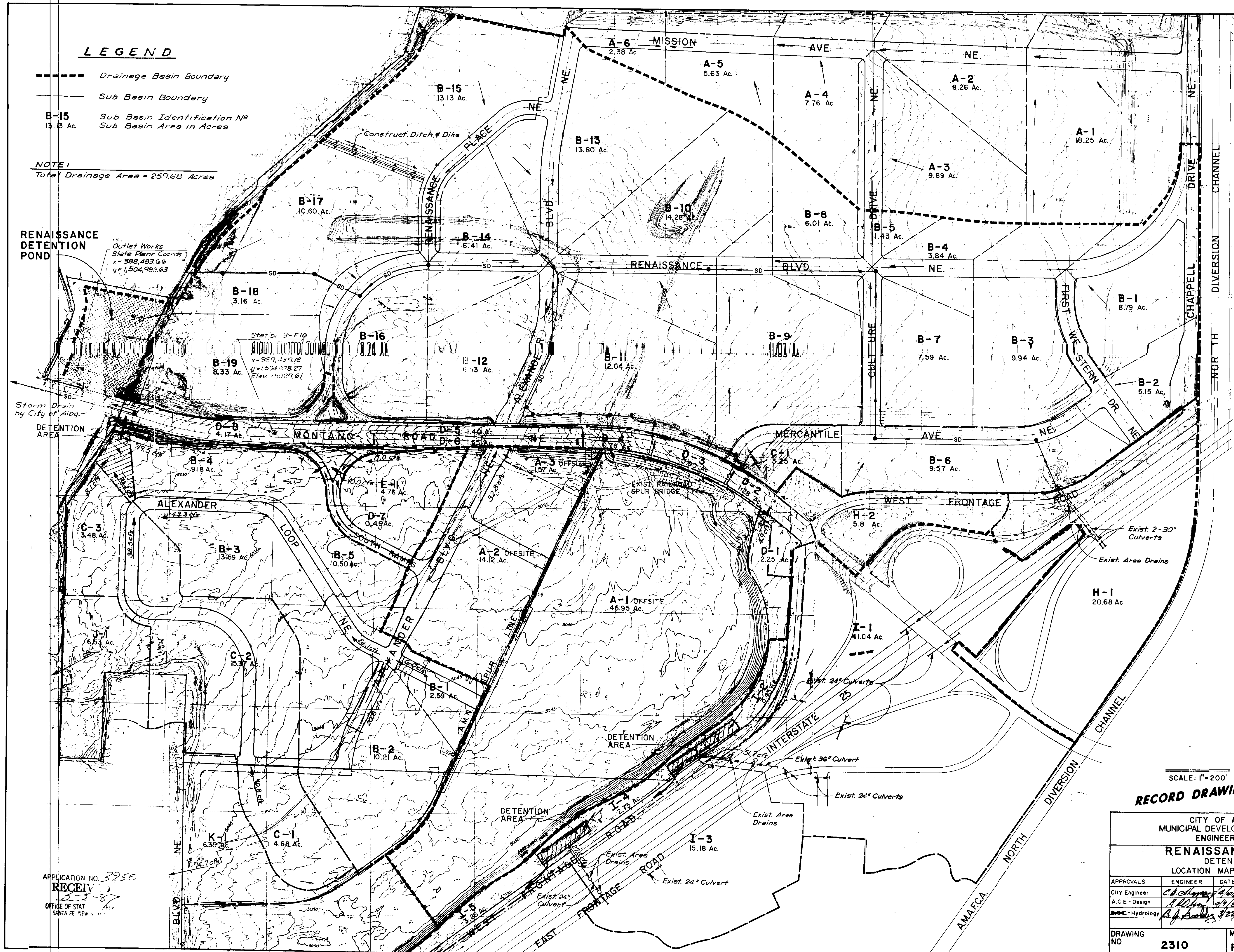
Outlet Works
State Plane Coords
x = 588,483.66
y = 1,504,982.63

Stat. on 3-F16
x = 967,439.18
y = 1,524,678.27
Elev. = 5029.61

Storm Drain
by City of Albq.

DETENTION
AREA

APPLICATION NO. 3950
RECEIVED
2-5-87
OFFICE OF STAT
SANTA FE, N.M.



SCALE: 1" = 200'
RECORD DRAWING

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

RENAISSANCE CENTER
DETENTION POND
LOCATION MAP & DRAINAGE AREA

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	2/27/85	Liquid Waste	<i>[Signature]</i>	2/27/85
A.C.E. - Design	<i>[Signature]</i>	2/27/85	Traffic	<i>[Signature]</i>	2/27/85
Hydrology	<i>[Signature]</i>	2/27/85	Water	<i>[Signature]</i>	2/27/85

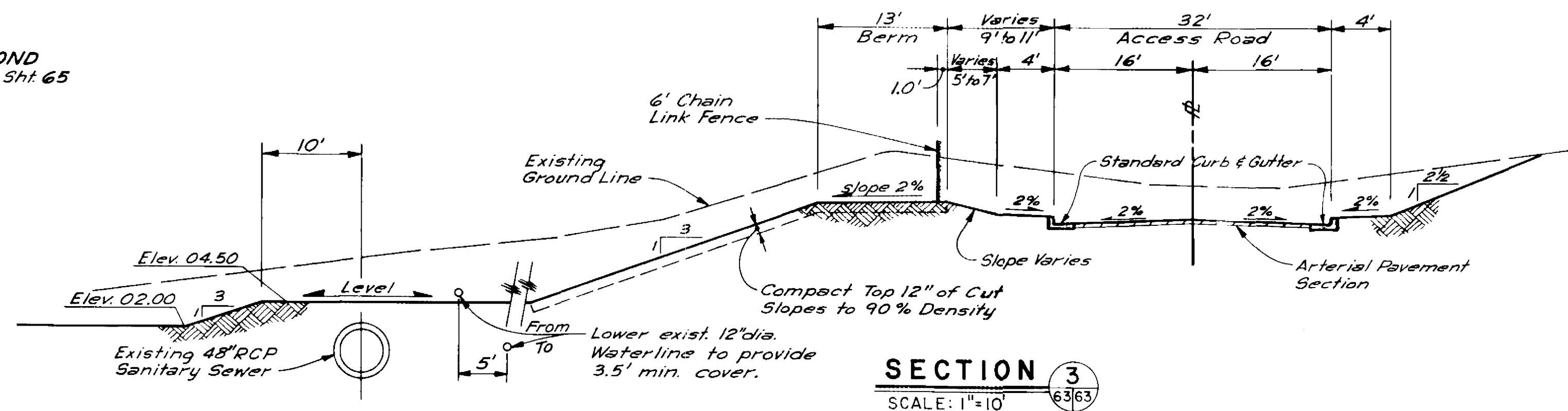
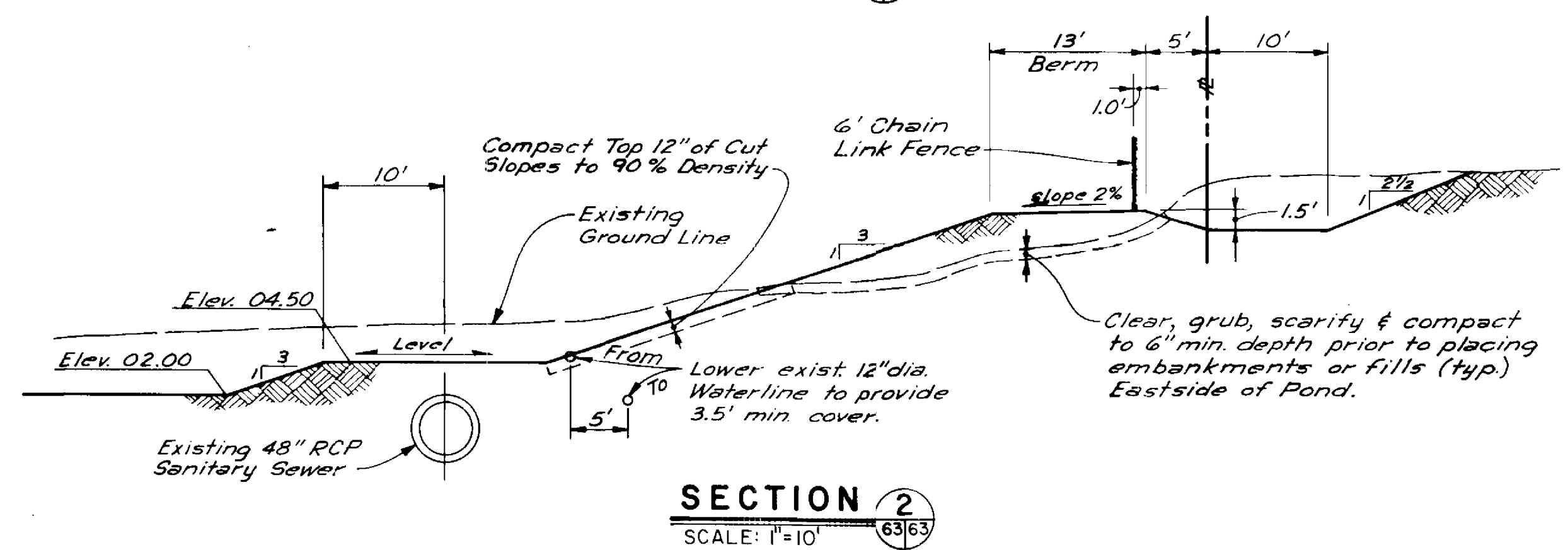
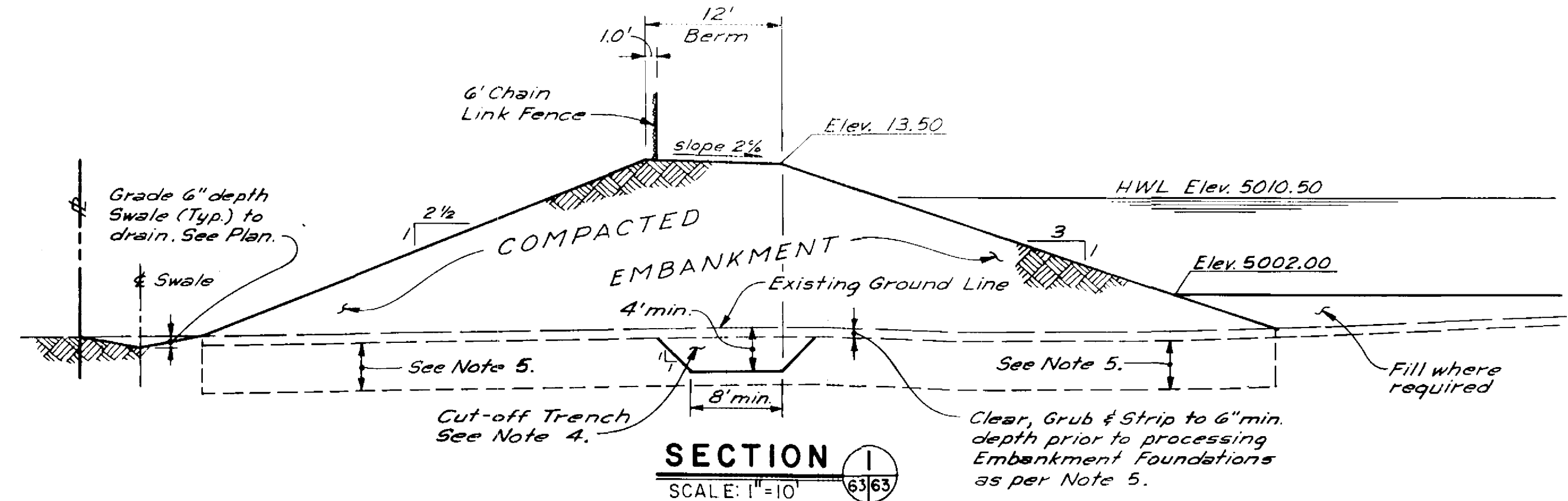
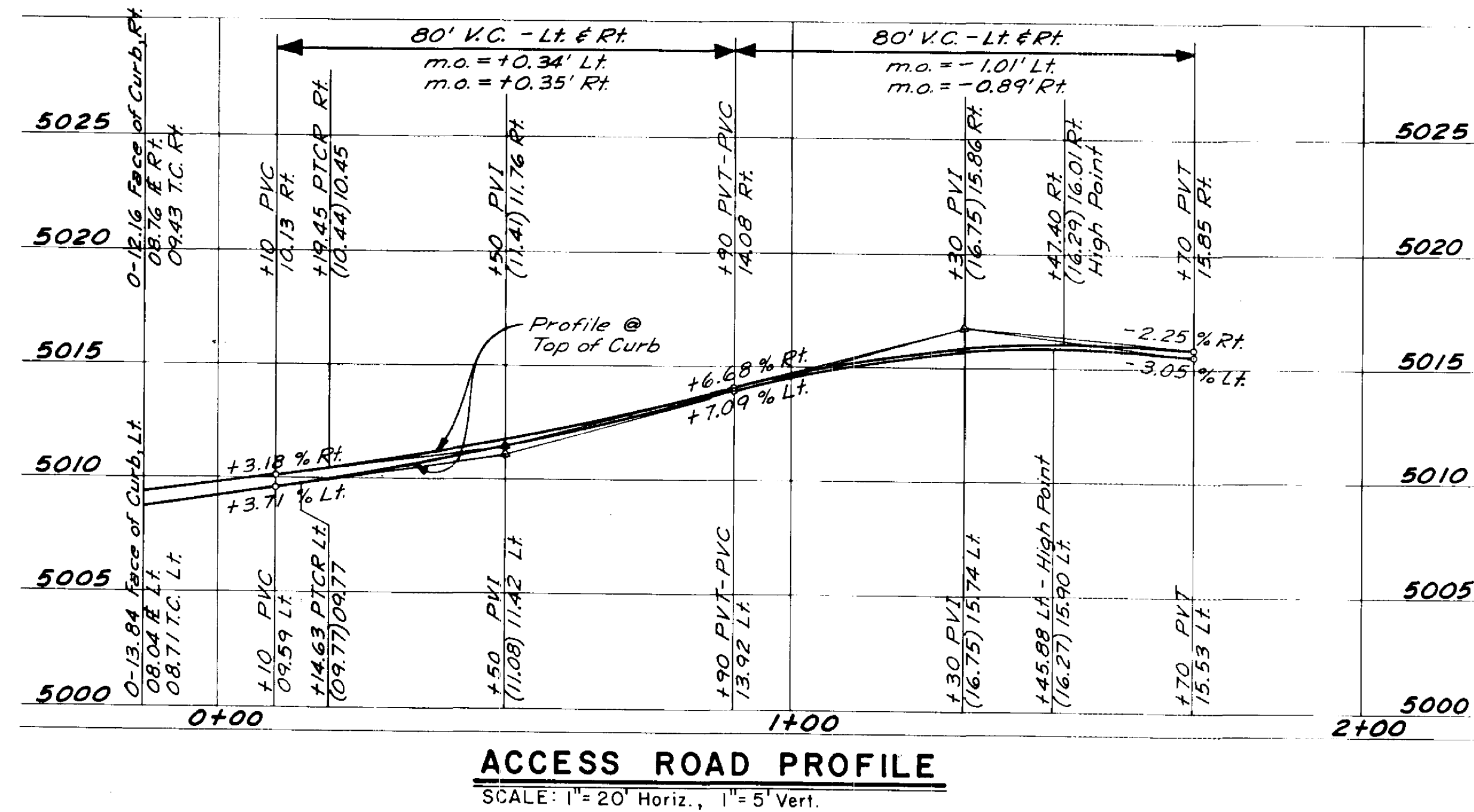
DRAWING NO.	2310	MAP NO.	F-15, F-16	SHEET	P-2 OF 7
				TOTAL SHEETS	62 OF 67

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS		
CONTRACTOR	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
CONTRACTOR: G.H. Coon & Assoc.	DATE: 95	BY: A.A.F.R.												
WORK STARTED BY: A.A.F.R.	DATE: 95	ACCEPTANCE BY: A.A.F.R.												
FIELD DRAWINGS CORRECTED BY: A.A.F.R.	DATE: 95	RECORDED BY: A.A.F.R.												
MICRO-FILM INFORMATION														
RECORDED BY: A.A.F.R.	DATE: 95													

ENGINEER'S SEAL
PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
ANDREWS, ASBURY & ROBERT, INC.
ALBUQUERQUE, N.M. 87102

NOTES

1. CONTRACTOR TO EXCAVATE WATERLINE AND VERIFY ELEVATION AND LOCATION AT CROSSING OF 84" RCP. IF REQUIRE, LOWER WATERLINE TO PROVIDE 18" MIN. CLEARANCE BETWEEN WATERLINE AND 84" RCP.
2. CONTRACTOR TO EXCAVATE WATERLINE AND VERIFY ELEVATION AND LOCATION. LOWER WATERLINE THRU EMBANKMENT SO THAT TOP OF PIPE IS A MIN. OF 2" BELOW TOP OF CURB ON MONTANO ROAD @ WATERLINE CROSSING.
3. POWER POLES AND GUYS REQUIRING RELOCATION WILL BE PERFORMED BY PUBLIC SERVICE CO. OF N.M. (PNM). CONTRACTOR SHALL COORDINATE WITH PNM ON ANY RELOCATIONS.
4. PROVIDE CUT-OFF TRENCH UNDER ALL EMBANKMENTS TO LIMITS SHOWN ON LAYOUT PLAN.
5. CONTRACTOR SHALL MOISTEN EMBANKMENT FOUNDATION TO OPTIMUM MOISTURE ($\frac{1}{2}\%$) FOR A MINIMUM DEPTH OF 5 FT. COMPACT WITH A MINIMUM OF 20 PASSES BY A HEAVY VIBRATORY SHEEPPFOOT ROLLER. IF VIBRATORY COMPACTION POSES A THREAT TO NEARBY STRUCTURES, A HEAVY STATIC ROLLER SHOULD BE USED.
6. SEE SPECIAL CONDITIONS OF RENAISSANCE DETENTION POND SPECIFICATIONS FOR TEST HOLE LOGS.
7. THE MOST IMPERVIOUS MATERIALS SHALL BE PLACED ON INSIDE OF EMBANKMENTS.
8. NEW 12" WATERLINE SHALL BE COMPLETELY IN PLACE PRIOR TO REMOVING THE EXISTING 12" WATERLINE FROM SERVICE FOR A MINIMUM 24 HOUR CONNECTIONS.



Detention Pond Specifications
Renaissance Detention Pond shall be constructed in accordance with New Mexico Standard Specifications for Public Works Construction - 1979 Edition and as supplemented and/or Revised by City of Albuquerque Public Works Contract 84-3.

RECORD DRAWING

See GENERAL NOTES sheet 65

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

RENAISSANCE CENTER
DETENTION POND
OUT & GRADING PLAN, SECTIONS & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>W. J. Chappell</i>	4/10/85	Liquid Waste	<i>R. H. Hines</i>	3/27/85
A C E - Design	<i>A. R. Baker</i>	4/10/85	Water	<i>D. J. H. Hines</i>	3/15/85
Hydrology	<i>J. P. Sweeney</i>	3/22/85	Trailer	<i>R. H. Hines</i>	3/27/85
DRAWING NO. 2310			MAP NO. F-15, F-16		
			SHEET P-3 OF 7		
			TOTAL 63 OF 67		

AS BUILT INFORMATION	
UNIT NO. G M Coon f Assoc.	
DRAWING BY A A F R	DATE '85
CHECKED BY A A F R	DATE
APPROVED BY A A F R	DATE '05
REVISIONS BY A A F R	DATE 10/85
CORRECTED BY A A F R	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

ACS STA. 2 - T-16 - STANDARD ACS BRASS TABLET ON TOP OF CONCRETE POST PROJECTING 0.2 FT. ABOVE GROUND AND LOCATED 0.4 MILE WEST OF T-25 IN THE MEDIAN OF MONTANO ROAD NE - ELEVATION = 5602.09;

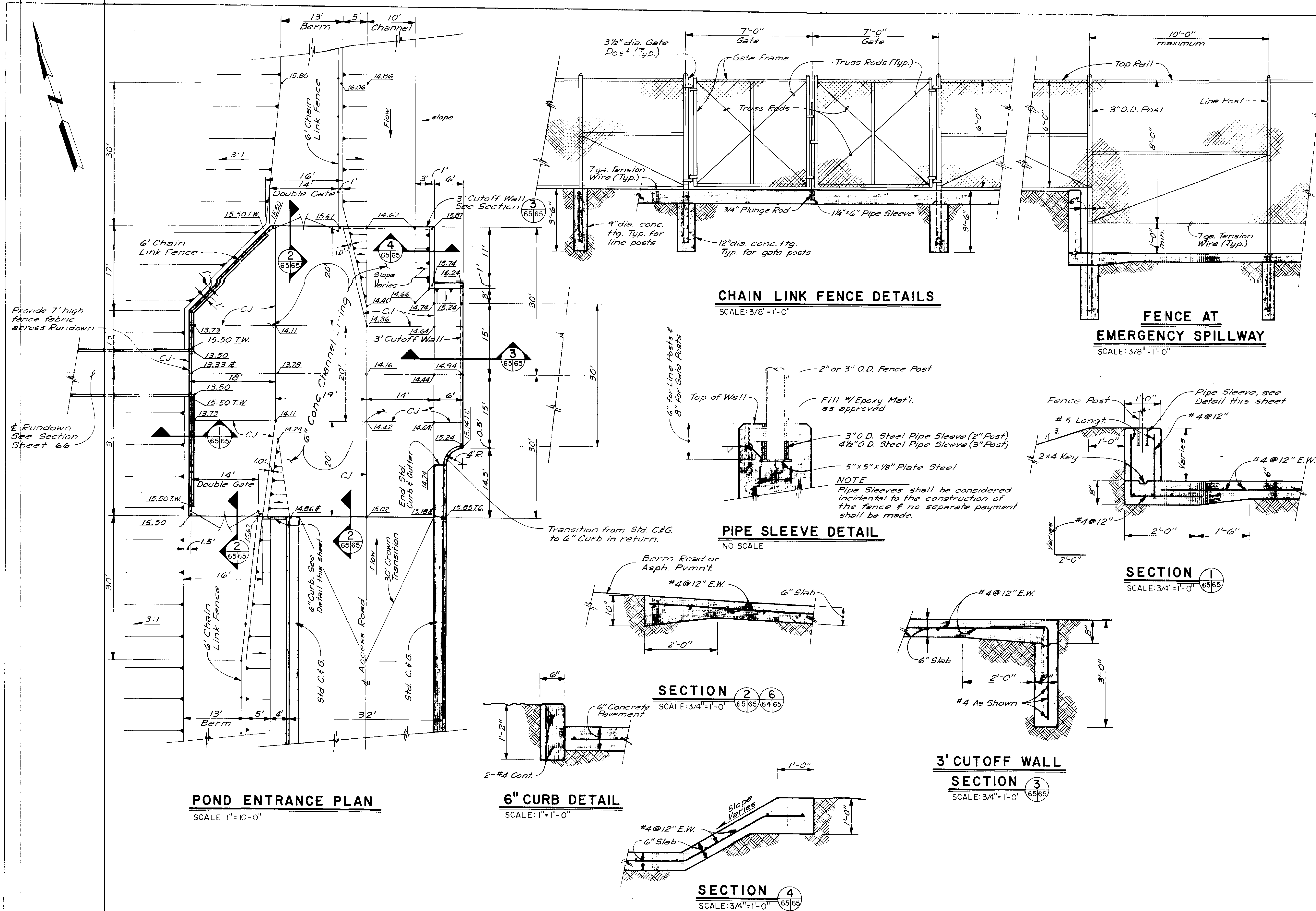
[illegible]

ENGINEER'S SEAL

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
NEW YORK
ALBUQUERQUE, N.M. 87102

NO.		DATE	REMARKS	BY
<i>REVISED</i>				
<i>DESIGN</i>				
DESIGNED BY		<i>JA</i>	<i>GJ</i>	DATE <i>Nov. 84</i>
DRAWN BY		<i>JCS</i>		DATE <i>Nov. 84</i>
CHECKED BY		<i>JA</i>	<i>GJ</i>	DATE <i>Nov. 84</i>

16 # 5250 Received 3/5/97



FENCE DATA		
ITEM	DESCRIPTION	
LINE POSTS	2-1/2" O.D. 3.65 x 11'	
CORNER POSTS	3" O.D. 3.65 x 11'	
GATE POSTS	4-1/2" O.D. 3.65 x 11'	
TOP RAIL	1-3/8" O.D. 3.65 x 11'	
BTM. RAIL	1-1/2" O.D. 3.65 x 11'	
GATE FRAME	1-1/2" O.D. 3.65 x 11'	
GATE POSTS	1-1/2" O.D. 3.65 x 11'	
TRUSS RODS	3/8" DIA. THREADED, SEE CITY STD. DWG. K-13	
FENCE FABRIC	9 GAGE WITH 2" MESH	
LINE POST FOOTING	12" DIA., 4" DEEP	
CORNER & GATE POST FOOTINGS	12" DIA., 4" DEEP	
PLUNGER ROD	3/4" DIA., WITH BRACKETS FOR PADLOCK	

NOTE: ALL FENCING MATERIAL SHALL BE OF A STANDARD MANUFACTURE AND AS APPROVED BY THE ENGINEER.

DETENTION POND GENERAL NOTES

- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBJECTIONABLE MATERIAL FROM THE CONSTRUCTION AREA.
- REINFORCED CONCRETE STRUCTURES SHALL HAVE REINFORCING STEEL CONTINUOUS AT ALL CORNERS.
- DOWELS SHALL BE PROVIDED AT ALL CONNECTIONS OF REINFORCED CONCRETE CONSTRUCTION.
- CONCRETE STRUCTURES SHALL BE CONSTRUCTED WITH A 3/4" CHAMFER ON ALL EXPOSED EDGES.
- ALL EXPOSED CONCRETE SURFACES, TO A MINIMUM OF 6 INCHES BELOW FINISH GRADE SHALL BE FINISHED WITH "THOROSEAL" AS PER NMHSO SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1976 EDITION, PARAGRAPH 509.037, TYPE 1.
- CONTRACTOR SHALL PROVIDE 6" SUBGRADE PREPARATION UNDER ALL NEW CONCRETE STRUCTURES, FOOTINGS, AND SLABS.

BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY
AS BUILT	DATE	NO.	BY	NO.	BY

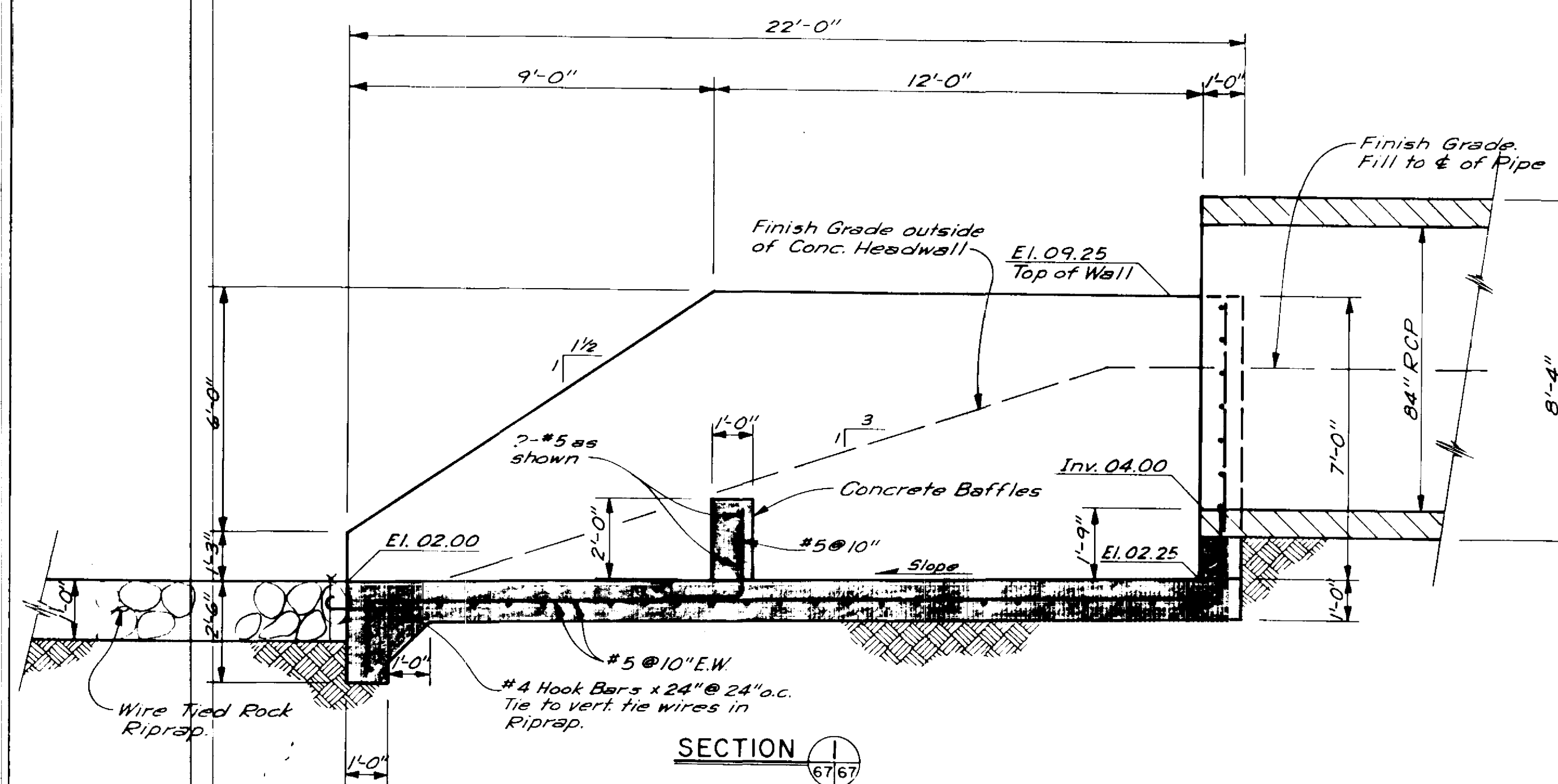
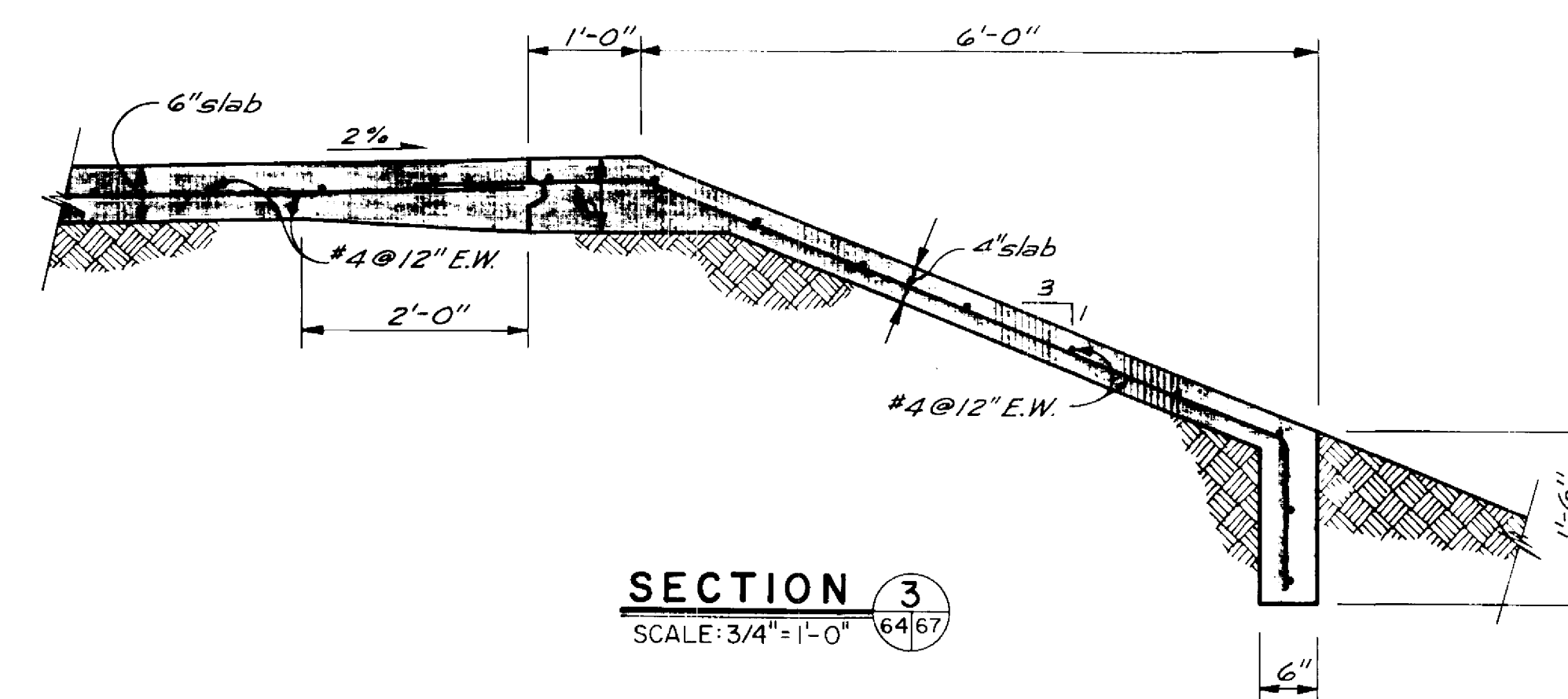
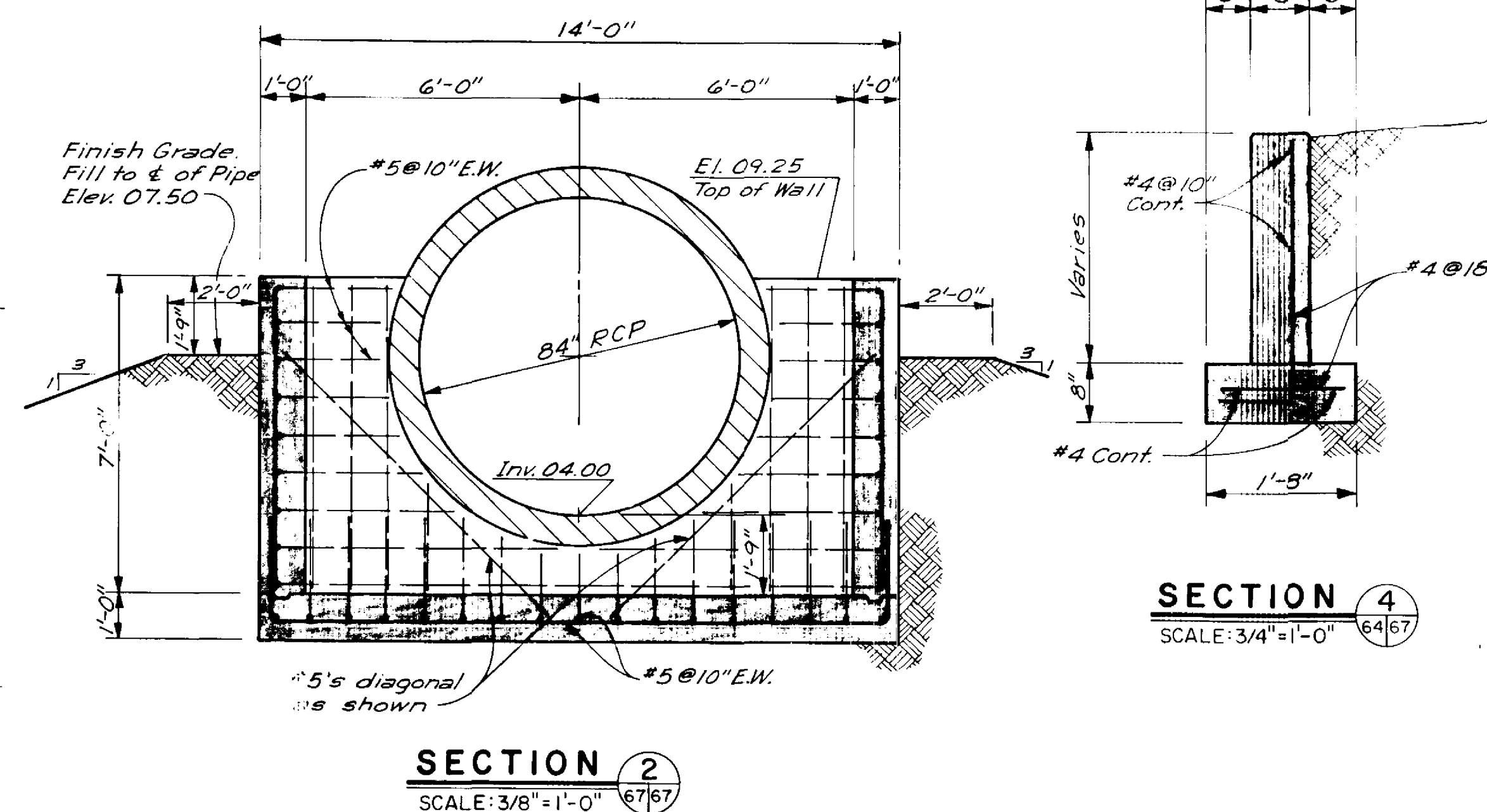
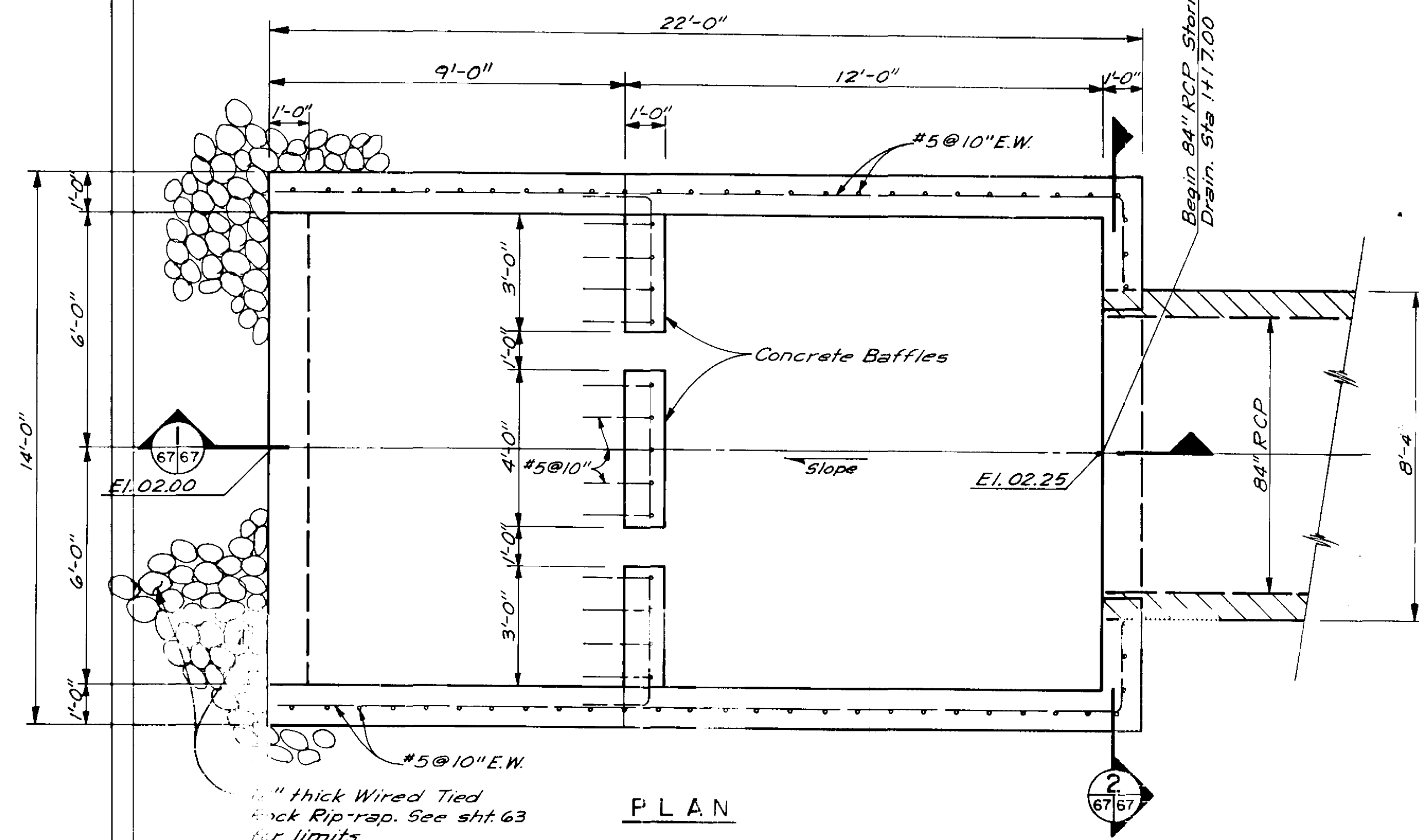
RECORD DRAWING

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

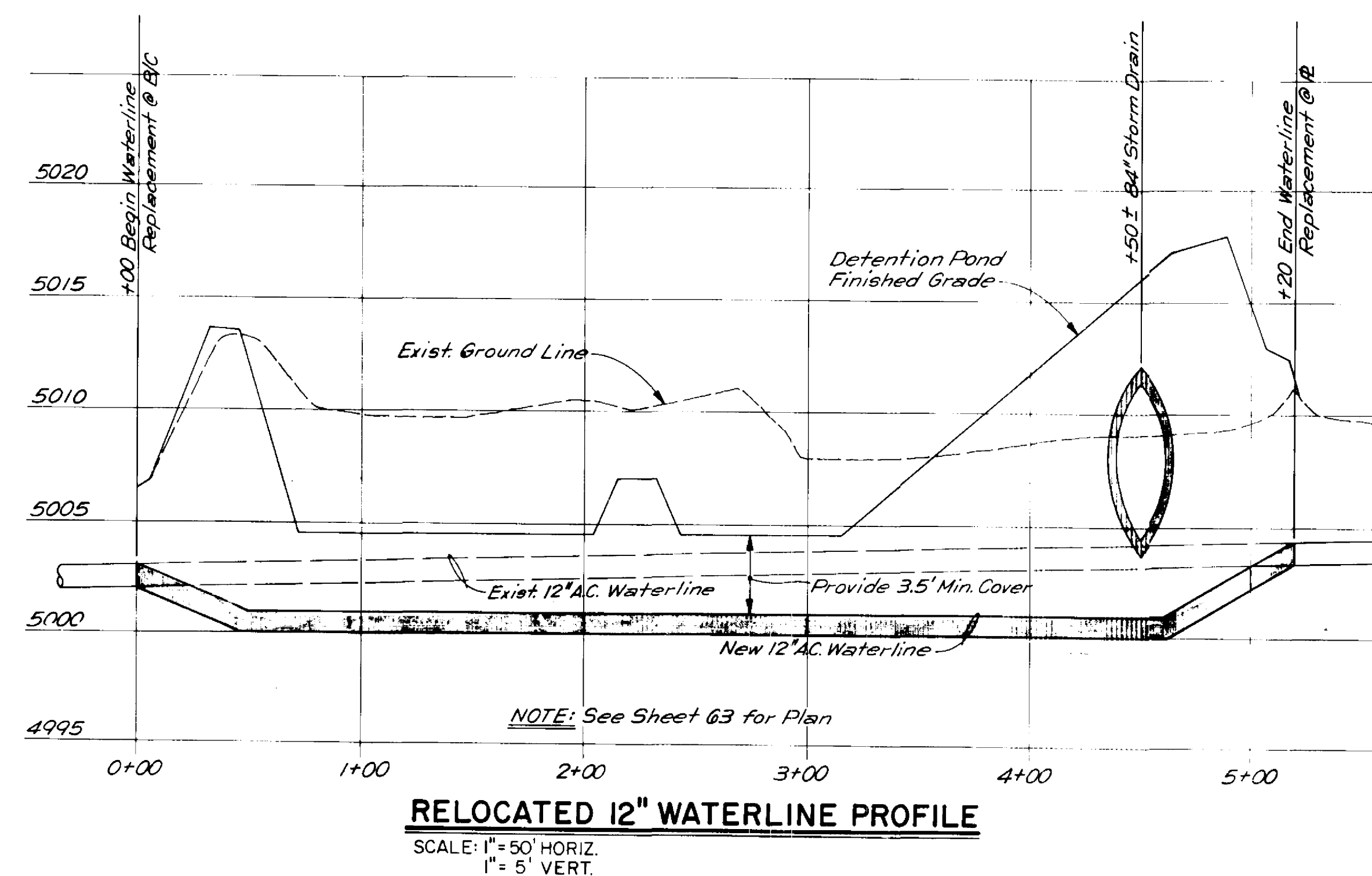
RENAISSANCE CENTER
DETENTION POND
POND ENTRANCE PLAN & MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/6/85	Liquid Waste	<i>[Signature]</i>	7/27/85
ACE - Design	<i>[Signature]</i>	4/9/85	Traffic	NIA DUH	7/27/85
Hydrology	<i>[Signature]</i>	3/22/85	Water	<i>[Signature]</i>	7/27/85

DRAWING NO.	2310	MAP NO.	F-15, F-16	SHEET	P-5 OF 7
			TOTAL SHEETS	65 OF 67	



STORM DRAIN OUTLET HEADWALL
SCALE: 3/8" = 1'-0"



See GENERAL NOTES sheet 65.

[illegible]

RECORD DRAWING

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
<p align="center">RENAISSANCE CENTER</p> <p align="center">DETENTION POND</p> <p align="center">STORM DRAIN OUTLET HEADWALL & MISCELLANEOUS DETAILS</p>					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>S. D. Lopez</i>	<i>4/6/85</i>	Liquid Waste	<i>ADW</i>	<i>2/21/85</i>
A C E - Design	<i>A. C. Chen</i>	<i>4/9/85</i>	Traffic	<i>N. A. DWH</i>	<i>2/22/85</i>
Hydrology	<i>B. J. Archuleta</i>	<i>3/23/85</i>	Water	<i>R. H.</i>	<i>2/11/85</i>
DRAWING NO. 2310		MAP NO. F-15, F-16		SHEET P-7 OF 7 TOTAL SHEETS 67 OF 67	



- RECORD DRAWING
John A. Andrews
5-19-88
SEO FILE No 39

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RENAISSANCE DETENTION DAM REPAIR

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C Chair					
Trans Dev					
Utility Dev					

DRAWING NO.	2310	MAP NO.	F-15, F-16	SHEET	1	OF	2
-------------	------	---------	------------	-------	---	----	---

