



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 14, 1999

Cris Weiss
C.L. Weiss Engineering
P.O. Box 97
Sandia Park, New Mexico 87047

RE: ENGINEER'S CERTIFICATION FOR VETERINARY CARE ANIMAL HOSPITAL
(F-21/D53A) ENGINEER'S CERTIFICATION STATEMENT DATED 3/22/99.

Dear Mr. Weiss:

Based on the information provided on your March 22, 1999 submittal, Engineer's Certification for the above referenced site is acceptable at this time.

If I can be of any further assistance, please feel free to contact me at 924-3330.

Sincerely,

Andrew Garcia
Drainage Inspector

c: file

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Veterinary Care Animal Hospital - Phase II ZONE ATLAS / DRNG. FILE #: F21-D53A
LEGAL DESCRIPTION: Lot F and Lot J Montgomery Partners together with a portion of Pitt Street NE Albuquerque, NM
CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss
ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: NA CONTACT: _____
ADDRESS: _____ PHONE: _____

ARCHITECT: Mark R. Hafen Architect CONTACT: Tina Townsend
ADDRESS: 735 Walnut Street, Boulder CO 80302 PHONE: 1-800-332-4413

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer
ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

____ YES DRB NO. _____
X NO EPC NO. _____
____ COPY OF CONFERENCE RECAP PROJ. NO. _____
SHEET PROVIDED

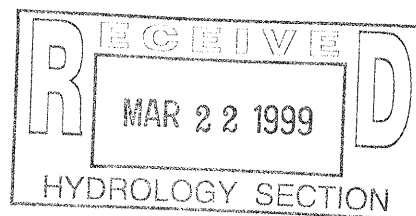
TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
X ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT
____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
____ FINAL PLAT
____ BUILDING PERMIT
____ FOUNDATION PERMIT
X CERT. OF OCCUPANCY
____ ROUGH GRADING PERMIT
____ GRADING / PAVING PERMIT
____ OTHER _____

DATE SUBMITTED: March 22, 1999
BY: C.L. Weiss Engineering, Inc.



As approved by COA hydrology for Phase I of this development: Dated 12-05-1988

Because of street flooding problems immediately downstream from the site, based on the historic drainage patterns as established in the Phase 1 submittal per the "Conceptual Drainage Plan for Continental Square Shopping Center" (approved February 1986), the allowable discharge from the property is 3.2 cfs. All additional run-off will be detained and released as through a single 4" dia. bleeder pipe into Montgomery Blvd.

POND SIZE: The proposed pond is sized as follows:

	<u>Contour Data</u>		<u>Area (SF)</u>	<u>Vol. (CF)</u>
Area of contour	5600.0	=	3256	3620
	5601.0	=	3984	
	5601.6	=	4368	

Total Volume Required:
5753 CF
Total Volume Designed:
6126 CF

AS-BUILT CONSTRUCTION - POND VOLUME

	<u>Contour Data</u>		<u>Area (SF)</u>	<u>Vol. (CF)</u>
Area of contour	5599.6	=	0	491
	5600.0	=	2455	
	5601.0	=	2954	
	5601.6	=	3450	

Note: Once the pond becomes full, it will spill through the existing sidewalk culvert and pond in the parking area to an elevation of 5601.6 at which point it will spill over into Montgomery Blvd. NE.

Area of contour	5601.2	=	0	150
	5601.6	=	750	

Total Volume Required:
5753 CF
Total Volume Provided:
5267 CF

Due to existing utility and site features, maximum as-built pond volume is approximately 9% (486 cf) less than design volume. For the 100 year storm, the maximum discharge rate will be 3.4 cfs.

15.20 n. 247

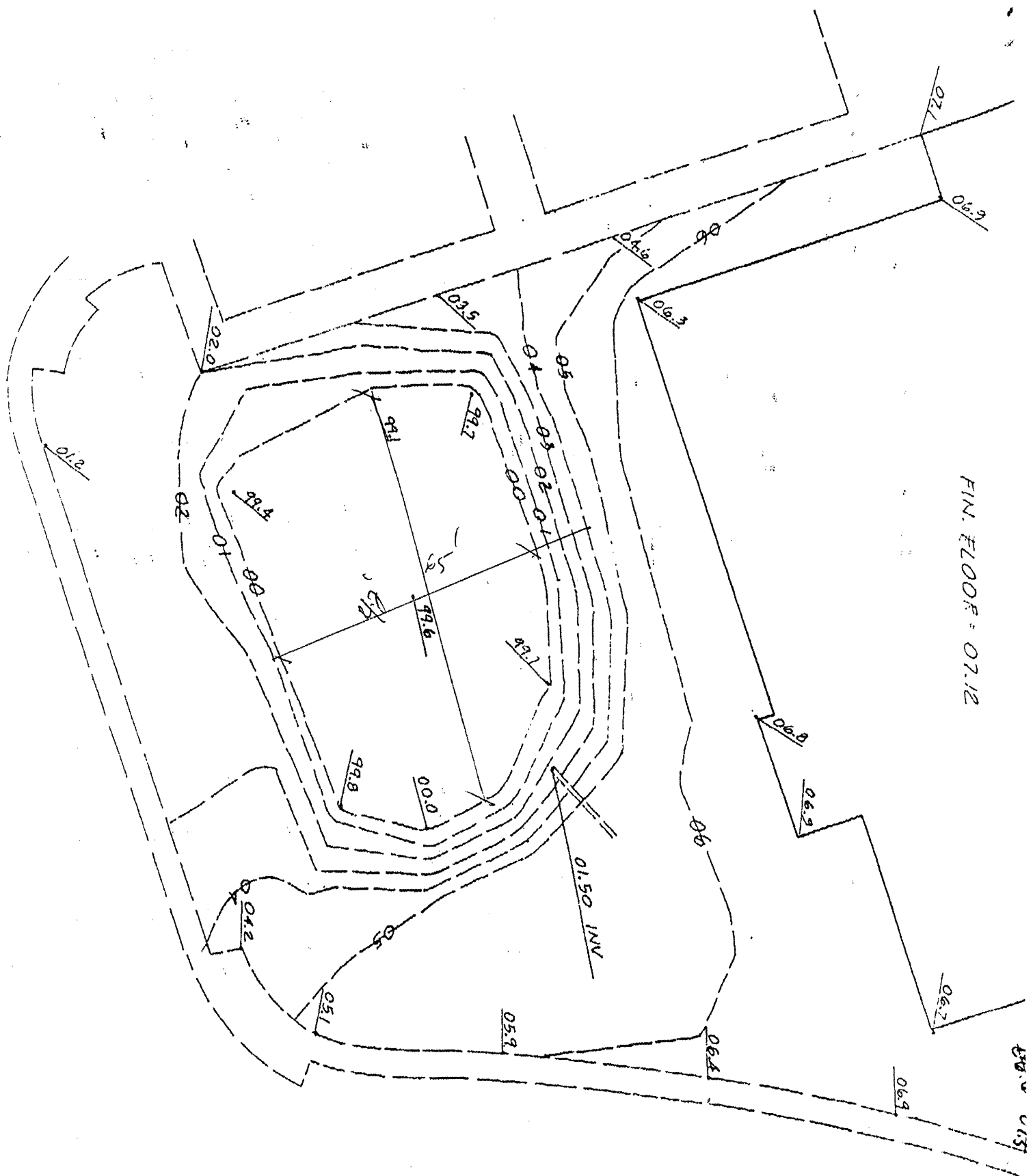
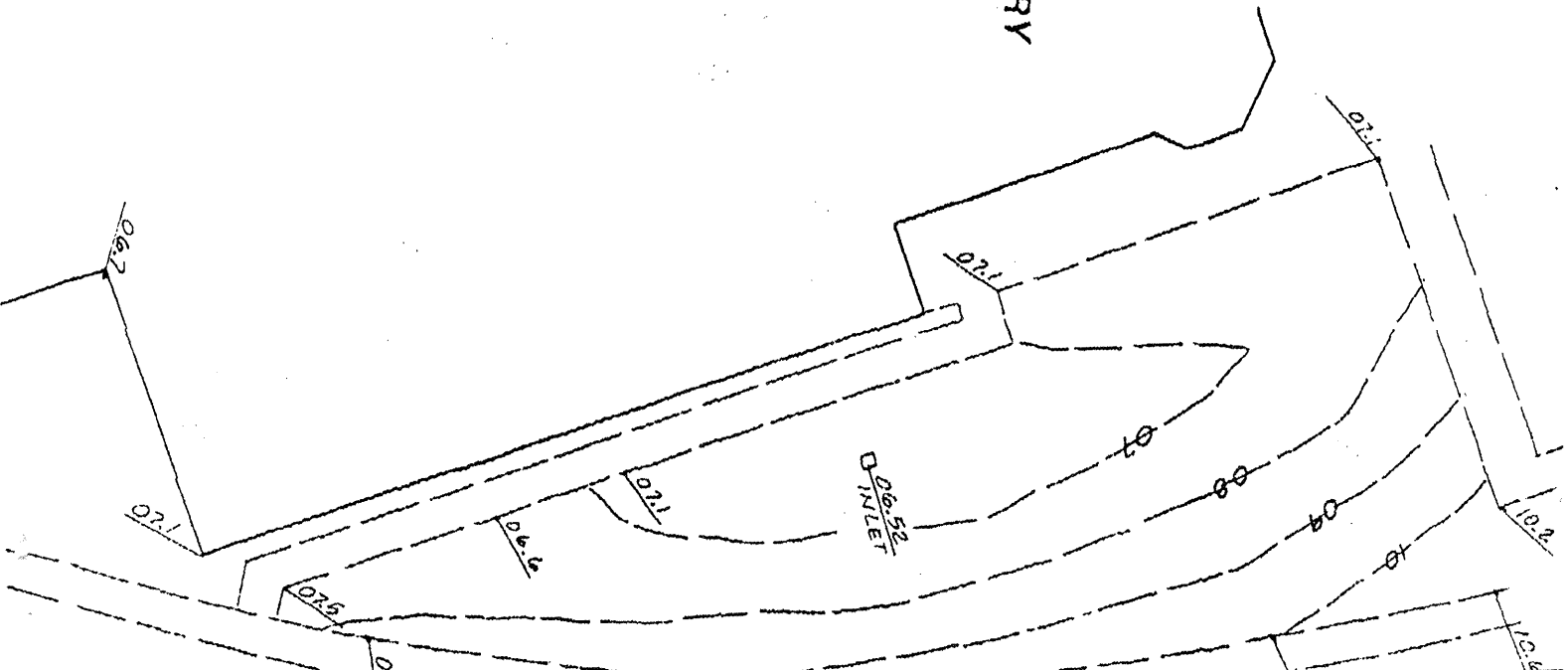


EXHIBIT
SHOWING AS-BUILT TOPOGRAPHY OF POND FOR VETERINARY
CARE ANIMAL HOSPITAL.

A.M. SURVEYING CO. ~ RIO RANCHO, NM ~ PH. 896-1716

SCALE: 1"=20'





June 30, 1998

Chris Weiss
C.L. Weiss Engineering
P.O. Box 97
Sandia Park, New Mexico 87047

RE: REVISED DRAINAGE PLAN FOR VETERINARY CARE ANIMAL HOSPITAL
(F21-D53A) REVISION DATED 5/18/98

Dear Mr. Weiss

Based on the information provided on your May 19, 1998 resubmittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

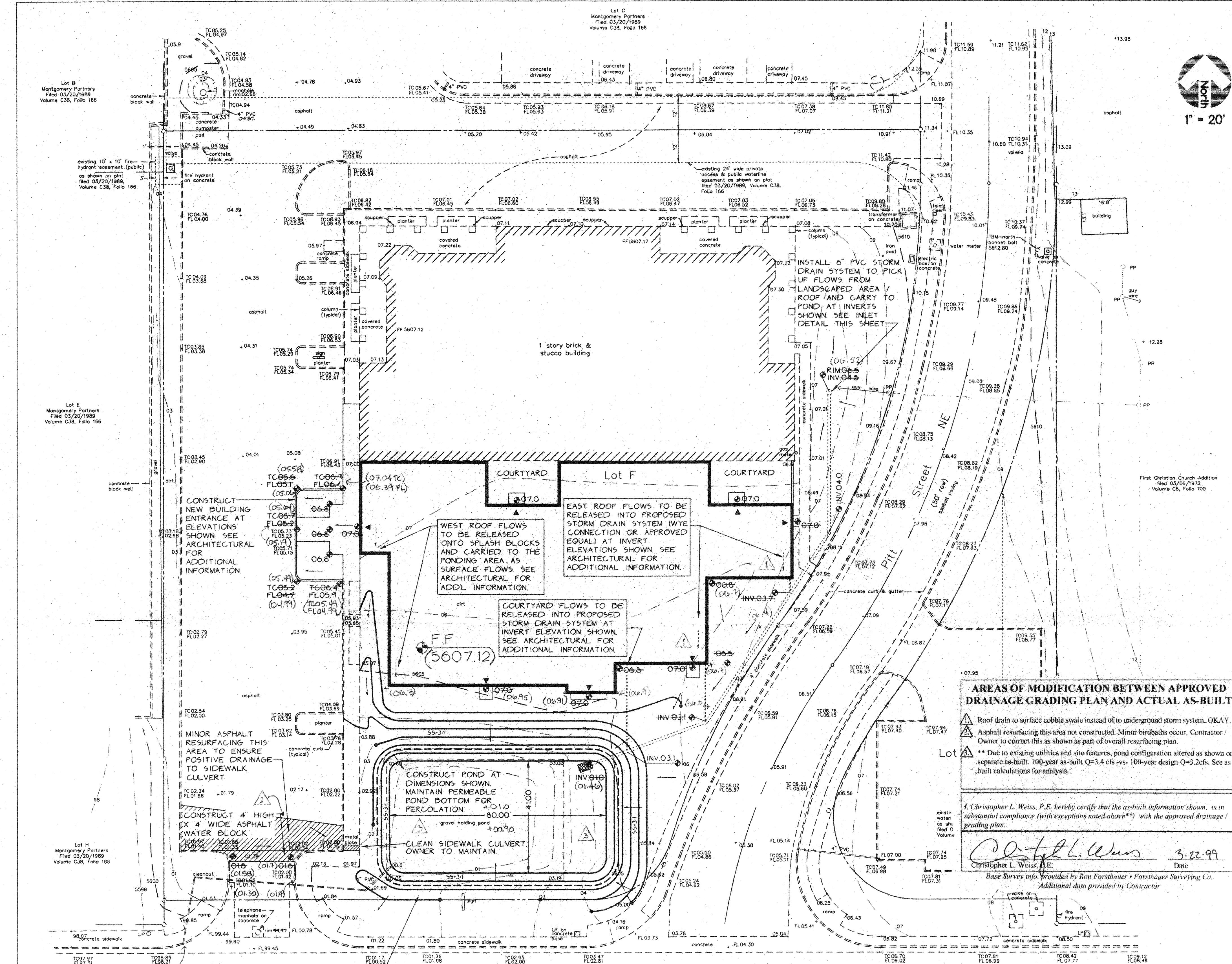
If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer





SCOPE

PROPOSED IMPROVEMENTS INCLUDE COMMERCIAL BUILDING ADDITION WITH ASSOCIATED WALKS AND LANDSCAPING FEATURES.

THE PRESENT SITE IS A DEVELOPED COMMERCIAL PROPERTY WITH SITE RUNOFF FLOWING SOUTH TO AN EXISTING DETENTION POND AND THEN INTO MONTGOMERY BLVD. NE. A RESIDENTIAL NEIGHBORHOOD BORDERS THE PROPERTY TO THE NORTH. THE PROPERTIES TO THE EAST AND WEST ARE DEVELOPED COMMERCIAL LOTS.

THE INTENT OF THIS PLAN IS TO SHOW:

- GRADING RELATIONSHIPS BETWEEN THE EXISTING GROUND ELEVATIONS AND PROPOSED FINISHED ELEVATIONS IN ORDER TO FACILITATE POSITIVE DRAINAGE TO DESIGNATED DISCHARGE POINTS.
- THE EXTENT OF PROPOSED SITE IMPROVEMENTS, INCLUDING BUILDINGS, WALKS AND PAVEMENT.
- THE FLOW RATE/VOLUME OF RAINFALL RUNOFF ACROSS OR AROUND THESE IMPROVEMENTS AND METHODS OF HANDLING THESE FLOWS TO MEET CITY OF ALBUQUERQUE REQUIREMENTS FOR DRAINAGE MANAGEMENT.
- THE RELATIONSHIP OF ON-SITE IMPROVEMENTS WITH EXISTING NEIGHBORING PROPERTY TO INSURE AN ORDERLY TRANSITION BETWEEN PROPOSED AND SURROUNDING GRADES.

DRAINAGE PLAN CONCEPT: REFERRING THE APPROVED DRAINAGE / GRADING PLAN FOR PHASE I, BY WEISS-HINES ENGINEERING, DATED 12/15/88, AND THE CONCEPTUAL DRAINAGE PLAN FOR CONTINENTAL SQUARE SHOPPING CENTER (APPROVED FEBRUARY 1980). THE ALLOWABLE DISCHARGE FROM THIS PROPERTY IS 3.2 CFS FOR LOT F. (TOTAL ALLOWABLE DISCHARGE FROM LOTS F AND J IS 3.4 CFS. LOT J DISCHARGES 0.2 CFS. THEREFORE, 3.2 CFS IS ALLOWABLE DISCHARGE FOR LOT F). A DETENTION POND, PREVIOUSLY CONSTRUCTED WAS SIZED TO ACCEPT 7 OF THE DEVELOPED RUNOFF OF LOT F. THE EXISTING POND IS NOT LARGE ENOUGH TO ACCOMMODATE THE ADDITIONAL FLOWS FROM THE PROPOSED CONSTRUCTION. THEREFORE, THE POND AREA IS TO BE ENLARGED AS SHOWN ON THE PROPOSED DRAINAGE / GRADING PLAN. NOTE: THE EXISTING POND OUTLET (14" PVC) HAS AN INVERT ELEVATION OF 5600.00 10.6' ABOVE THE BOTTOM OF POND ELEVATION OF 5600.00. THUS, THE FINAL 0.6' OF POND VOLUME WILL BE RETAINED AND WILL PERCOLATE INTO THE GROUND.

GENERAL NOTES

LEGAL: LOT F OF THE PLAT OF THE SURVEY OF THE WEST 80 OF THE 160 ASSOCIATION, WITHIN SECTION 33, T1N, R4E, N1M, LOT A - ALBUQUERQUE, NEW MEXICO

SURVEYOR: FORSTBAUER SURVEYING CO. - 100 ALVARADO DR. NW, ALBUQUERQUE, NM - JANUARY, 1998

B.M.: CITY OF ALBUQUERQUE 24" F2L AN ALUMINUM DISK ON TOP OF CURB AT THE NORTHEAST CORNER OF THE INTERSECTION OF EUBANK BOULEVARD + MONTGOMERY BOULEVARD NE. ELEVATION: 5576.11MSLD.J

I.P.M.: NORTH BONNET BOLT OF FH LOCATED NEAR THE NORTHEAST PROPERTY CORNER (ACROSS PITT STREET) ELEV. + 5612.80 (MSLD.J)

FLOOD HAZARD: PER FIRM BOUNDARY MAP #144. THE SITE IS NOT LOCATED WITH A FLOOD HAZARD AREA.

OFF-SITE DRAINAGE: FLOWS FROM LOT C TO THE NORTH ARE CAPTURED ROUTED THROUGH AN EXISTING POND AND PASS THROUGH THE WEST ASPHALT DRIVE AT A CONTROLLED RATE PER THE APPROVED DRAINAGE / GRADING PLAN FOR THAT PROPERTY.

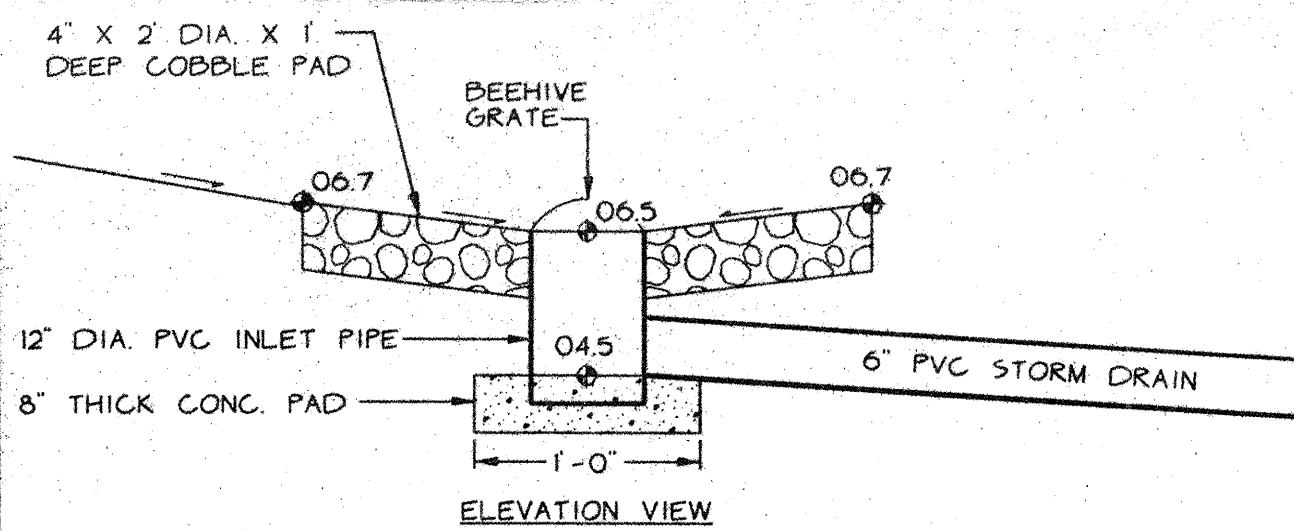
EROSION CONTROL: THE CONTRACTOR IS RESPONSIBLE FOR RETAINING ON-SITE ALL SEDIMENT GENERATED DURING CONSTRUCTION BY MEANS OF TEMPORARY EARTH BERMS OR SILT FENCES AT THE LOW POINTS ON THE WEST PROPERTY LINE.

AREAS OF MODIFICATION BETWEEN APPROVED DRAINAGE GRADING PLAN AND ACTUAL AS-BUILT

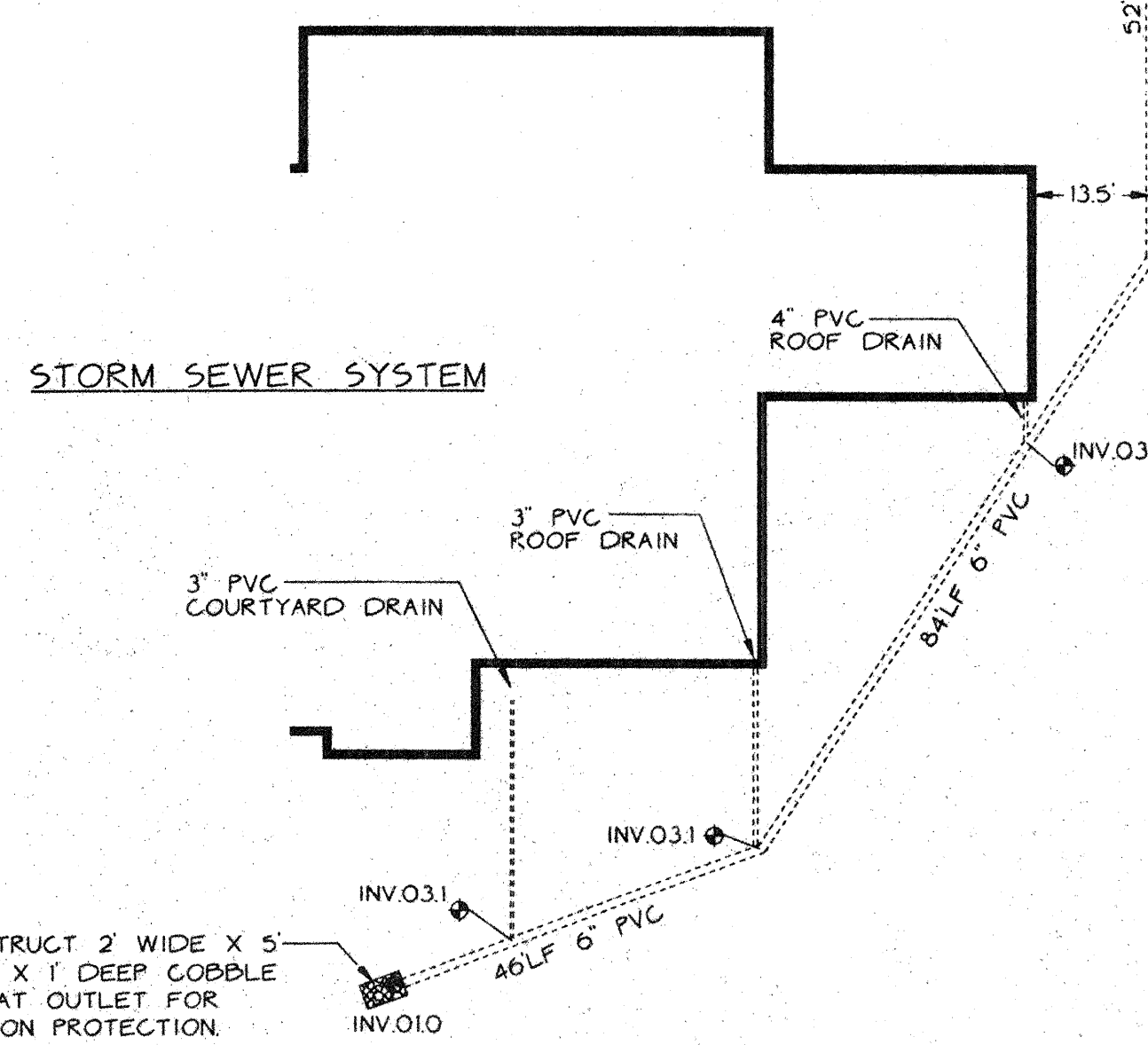
- ▲ Roof drain to surface cobble swale instead of to underground storm system. OKAY.
- ▲ Asphalt resurfacing this area not constructed. Minor birdbaths occur. Contractor / Owner to correct this as shown as part of overall resurfacing plan.
- ▲ Due to existing utilities and site features, pond configuration altered as shown on separate as-built. 100-year as-built Q=3.4 cfs vs- 100-year design Q=3.2cfs. See as-built calculations for analysis.

I, Christopher L. Weiss, P.E. hereby certify that the as-built information shown, is in substantial compliance (with exceptions noted above**) with the approved drainage / grading plan.

Christopher L. Weiss 3.22.99
Christopher L. Weiss, P.E. Date
Base Survey info provided by Ron Forstbauer - Forstbauer Surveying Co.
Additional data provided by Contractor

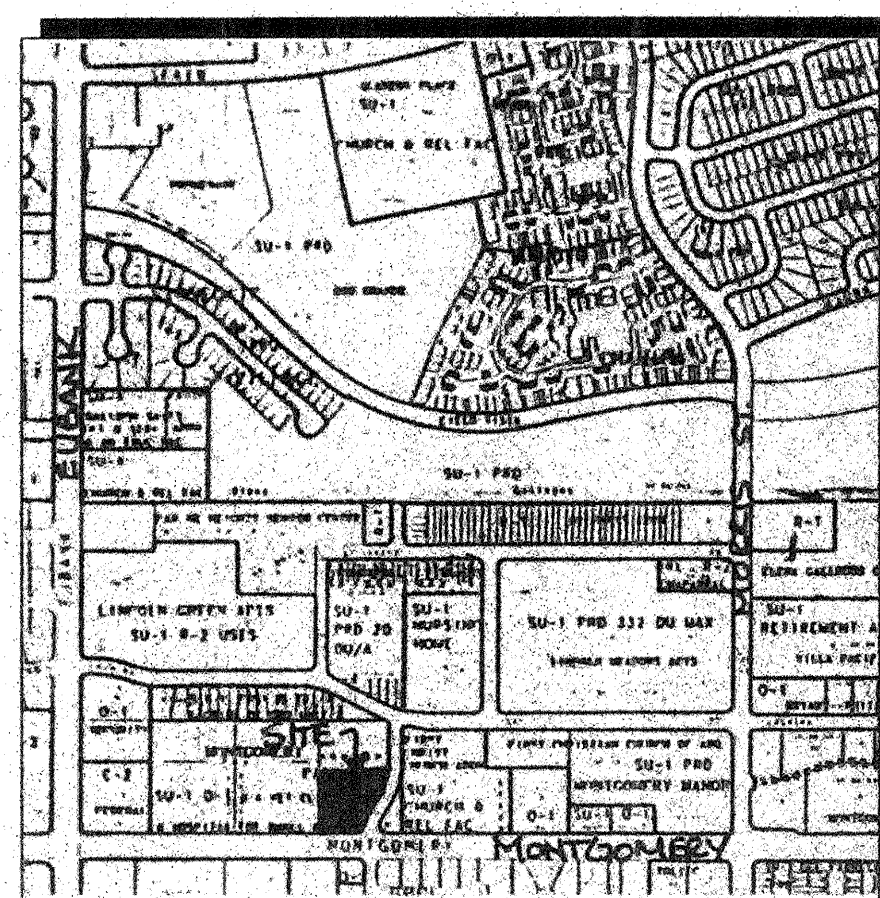


DETENTION INLET TO PROPOSED STORM SEWER

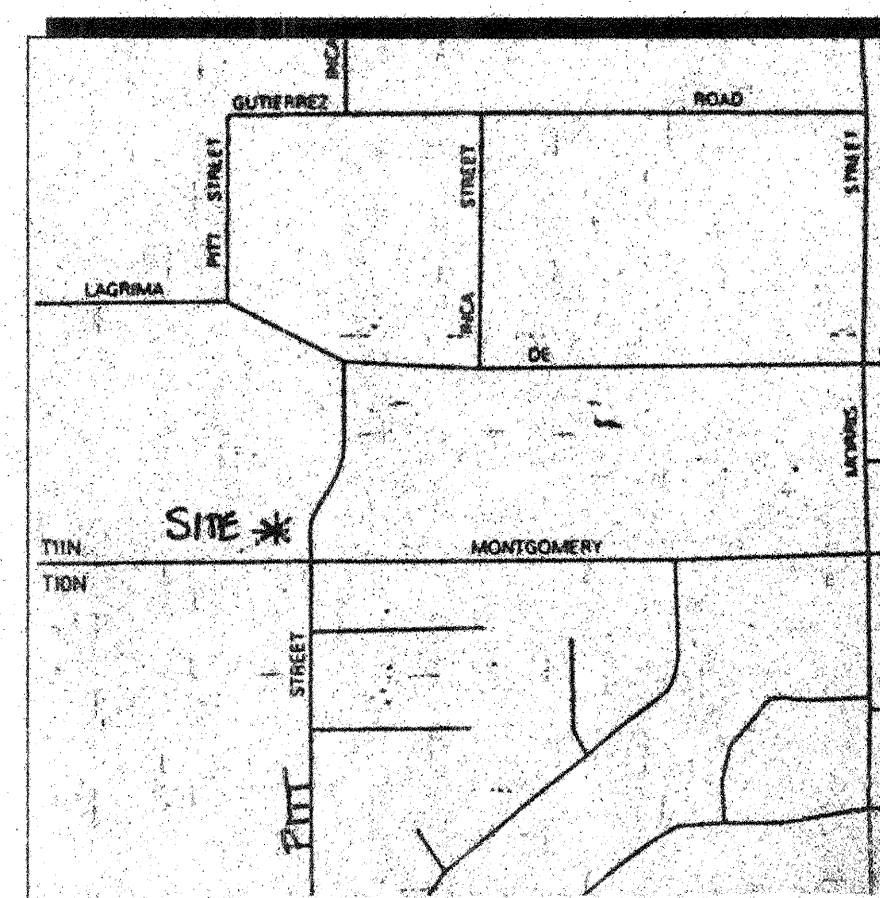


LEGEND

- | | | | |
|-----|---|-----|-----------------------|
| --- | SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED) | LA | LANDSCAPED AREA |
| --- | PROPOSED PAVED DRIVE | TA | TOP OF ASPHALT |
| --- | BUILDING (EXISTING, PROPOSED) | TC | TOP OF CURB |
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| --- | SURFACE FLOW DIRECTION (EXISTING, PROPOSED, ROOF) | ▲ | ENTRY / EXIT LOCATION |



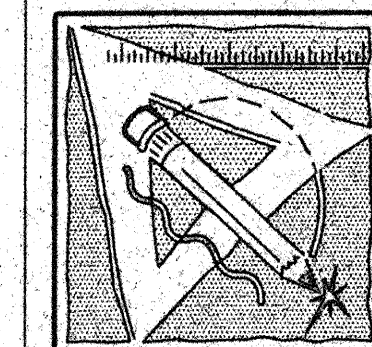
VICINITY MAP #F-21



F.I.R.M. MAP #144

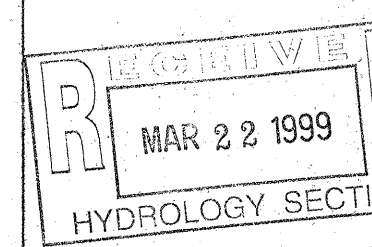
Mark R. Hafen Architect

Inventive. Personable. Architecture.



735 Walnut Street
Boulder, CO 80302
Local: 303-444-4413
Fax: 303-444-1759
Email: ghearch@worldnet.att.net

VETERINARY CARE
ANIMAL HOSPITAL
ALBUQUERQUE, NEW MEXICO



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Revisions

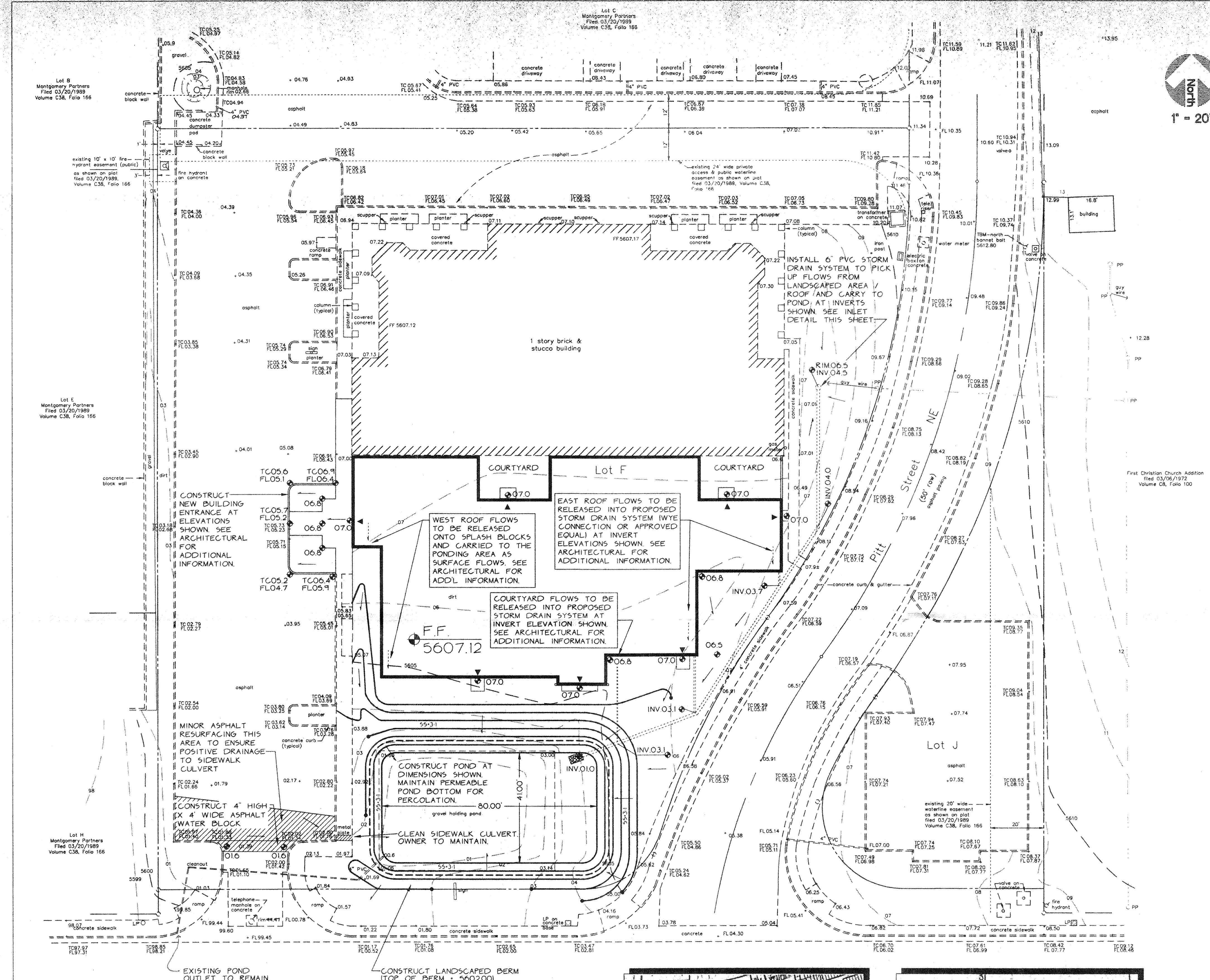
No.	Description	Date
1	Initial Issue	3/22/99

Drainage and Grading Plan

Date: March 1998

01

OF



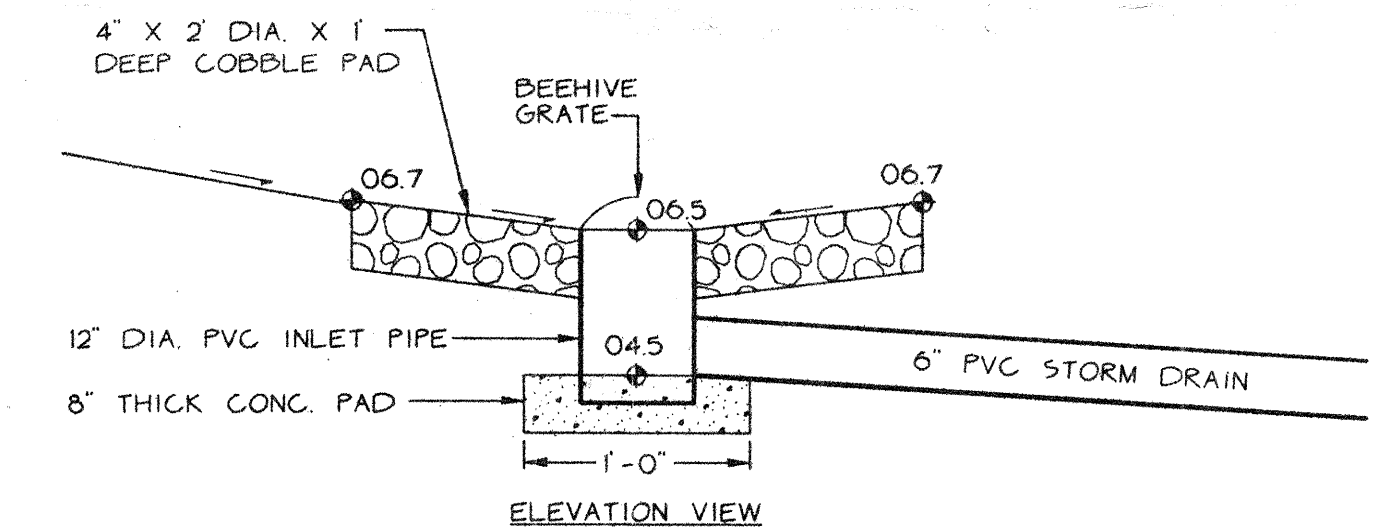
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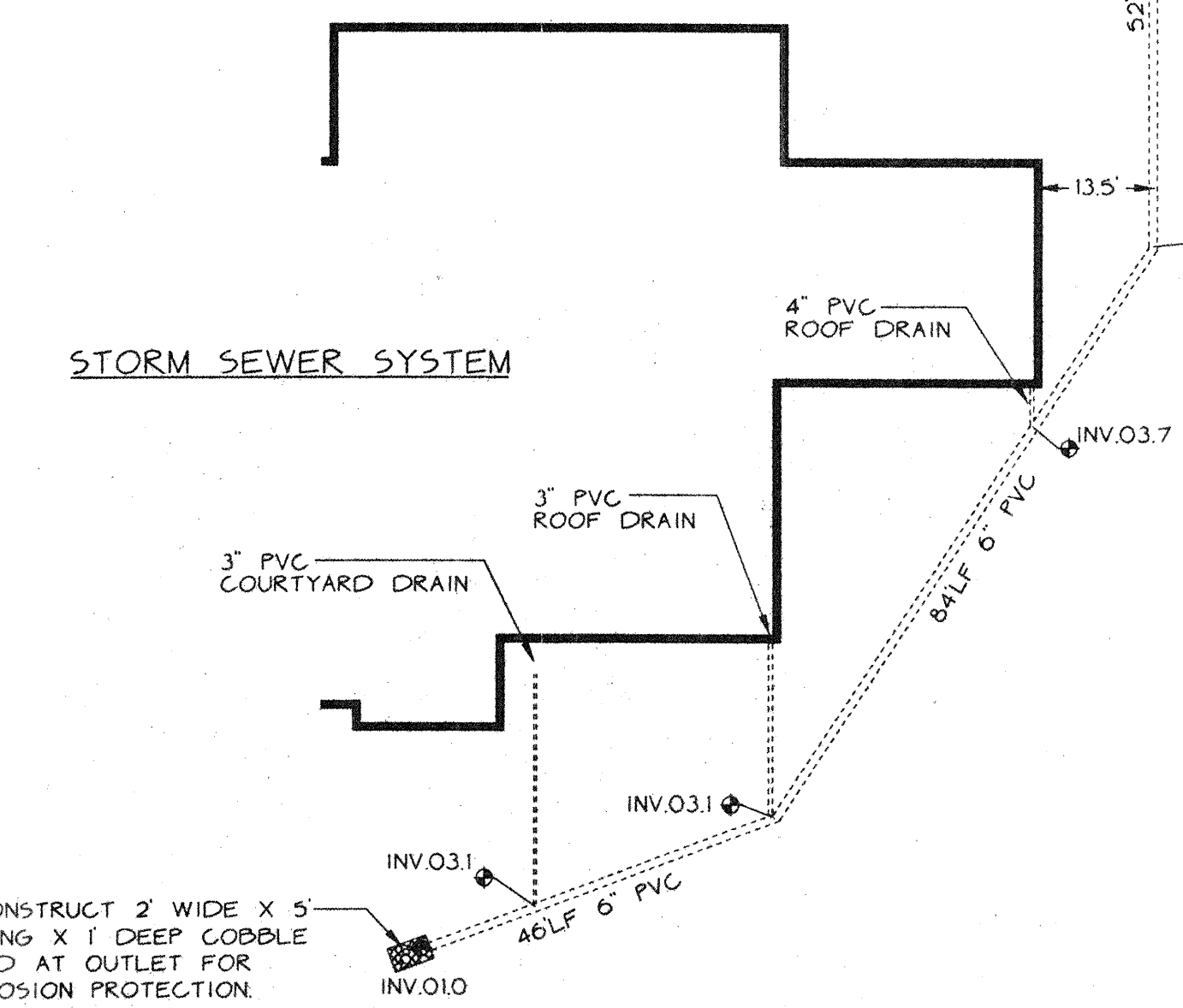
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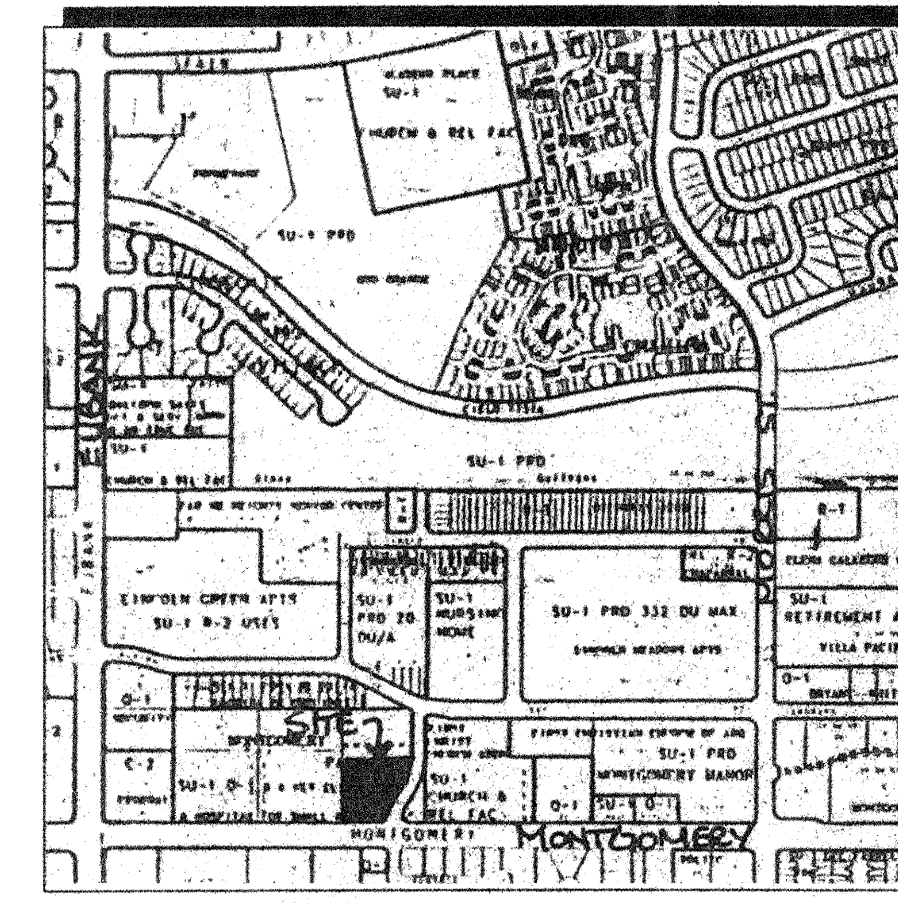
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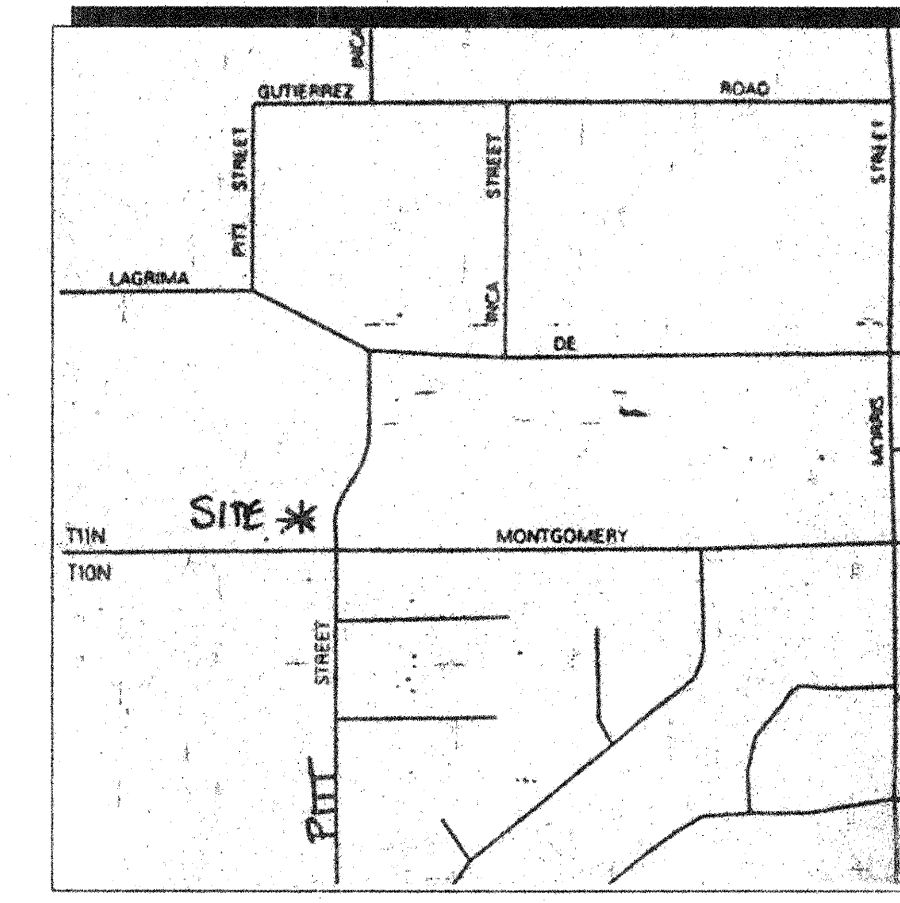
STORM SEWER SYSTEM

LEGEND

- | | | | |
|-----|---|-----|-----------------------|
| --- | SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED) | LA | LANDSCAPED AREA |
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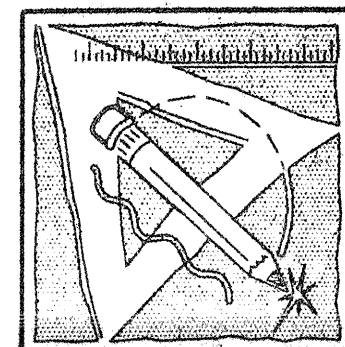
VICINITY MAP #F-21



F.I.R.M. MAP #144

Mark R. Hafen Architect

Inventive. Personable. Architecture.



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RECEIVED
MAY 19 1998
HYDROLOGY SECTION

VETERINARY CARE
ANIMAL HOSPITAL
ALBUQUERQUE, NEW MEXICO

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Revisions

Drawing Title

Drainage and Grading Plan

Date: March 1998

C1

OF

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1100 ALVARADO DR. NE • ALBUQUERQUE, N.M. 87110 • (505) 266-3444

