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County of Bernalillo

State of New Mexico

ONE CIVIC PLAZA, N.W.
ALBUQUERQUE, NEW MEXICO 87102

ADMINISTRATION (505) 768-4000

COMMISSION (505) 768-4217

FAX (505) 768-4329

August 20, 1993

MARK J. CARRILLO, ASSESSOR

JUDY D. WOODWARD, CLERK

THOMAS J. MESCALL, PROBATE JUDGE

RAY GALLAGHER, SHERIFF

H. R. FINE, TREASURER

Bob Ryals, P.E.
4929 Idlewilde SE
Albuquerque, NM 87108

DRAINAGE PLAN FOR LOT 27, BLOCK 15, TRACT 2, UNIT 1, N.A.A., (G-22/D36),
ENGINEER'S STAMP DATED AUGUST 6, 1993

Dear Mr Ryals:

Based on the information provided on the referenced submittal received August 11, 1993, kindly provide AMAFCA with the original floodplain easement form prior to this office releasing the Building Permit.

Please be advised that prior to the County Building Department performing final inspection of the structure, an Engineer's Certification that the site is in substantial compliance with this plan must be submitted and approved by this office.

If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz, P.E. & P.S.
City/County Floodplain Administrator

xc: Clifford E. Anderson, AMAFCA
Bob Foglesong, County PWD
John Baldwin, Owner
File

wp+7928

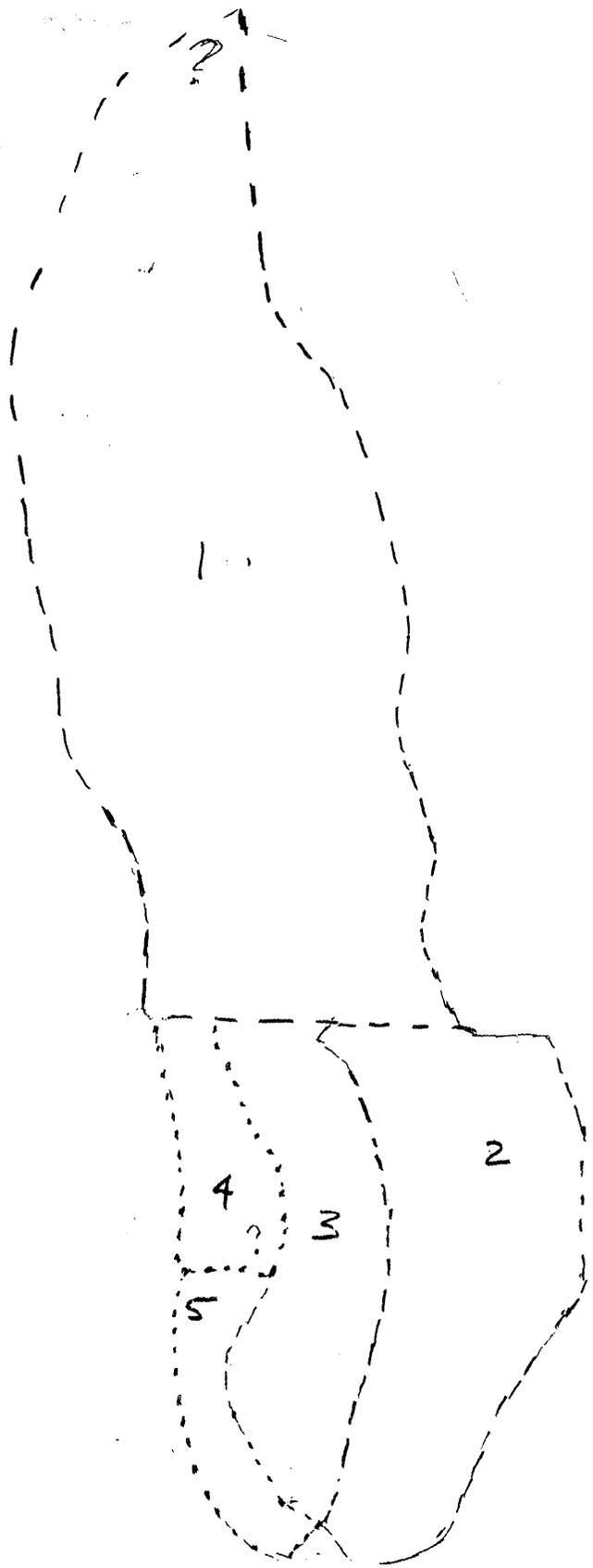
SUPPLEMENTAL DRAINAGE CALCULATIONS
BALDWIN RESIDENCE

LOT 27, BLK15, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES

OFFSITE BASIN MAP 1
AREA CALCULATIONS.....2-3
OFFSITE HYDROLOGY CALCS.....4
ONSITE HYDROLOGY CALCS.....5
FLOOD PLAIN EASM'T DESCRIPTION.....6



OFFSITE BASIN MAP
SCALE 1"=500'



1-500'

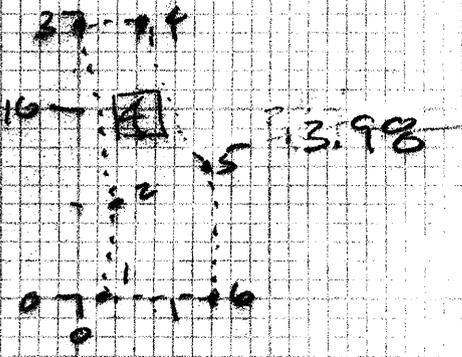
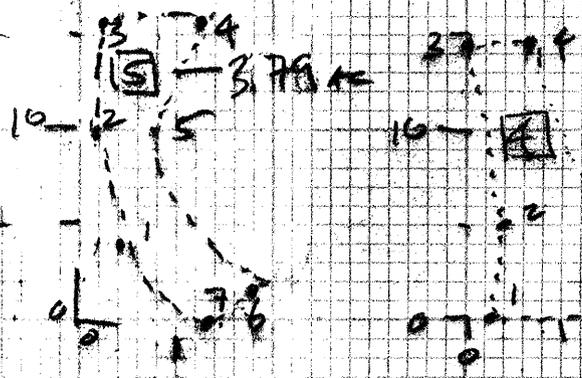
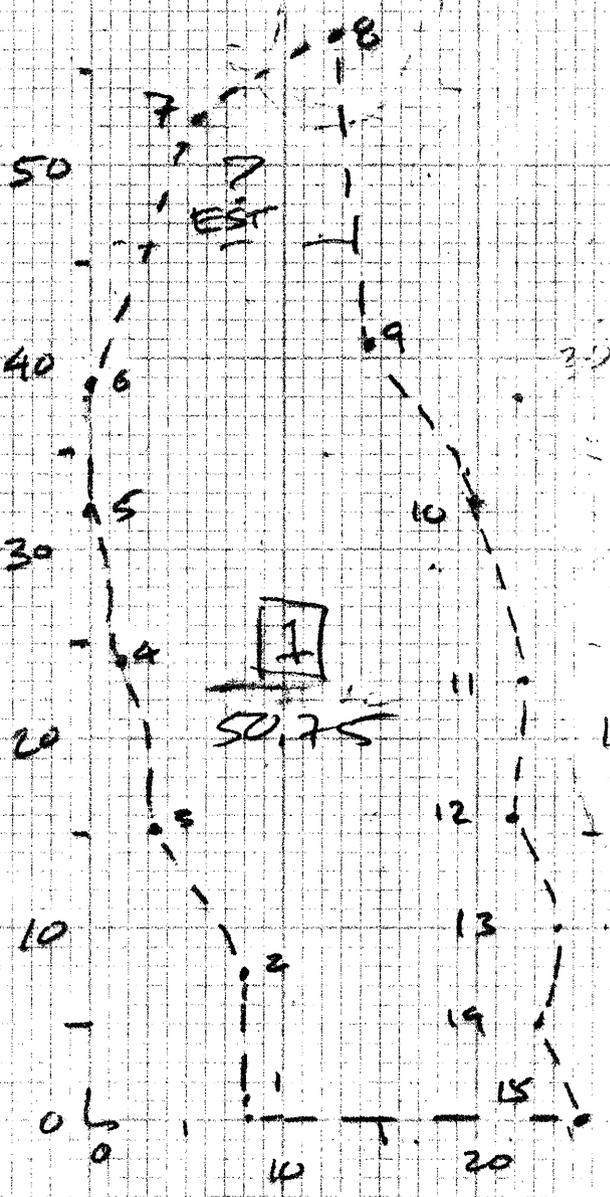
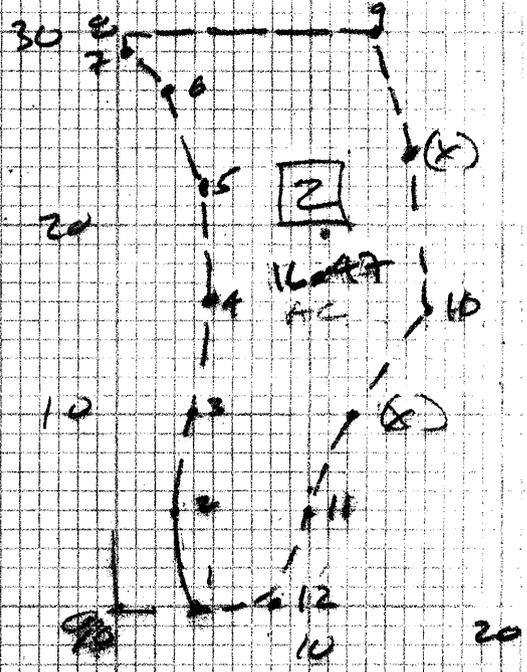
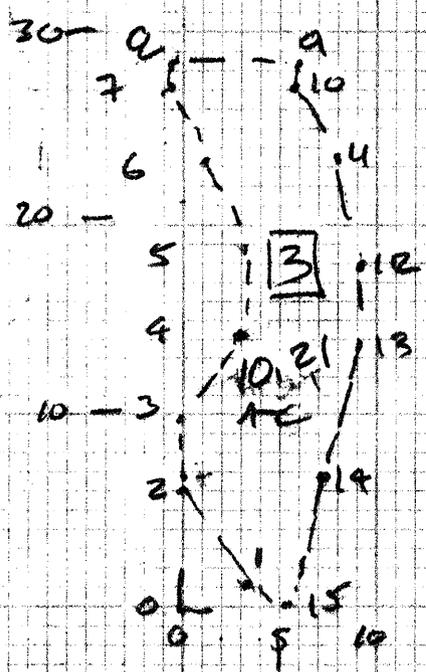
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BALDWIN HOME DRAINAGE ALLEYS
(OFFICE MUST)

6/10/93



~~CONFIDENTIAL - NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE WRITTEN PERMISSION OF THE BUREAU OF LAND MANAGEMENT~~

CHKD BY _____ DATE _____
BY _____ DATE _____

CLIENT _____
SUBJECT _____

JOB NO _____
SHEET NO _____ OF _____

FILE=A-COORDS.W01

AREA BY CO-ORDINATES FOR IRREGULAR POLYGON.

$2*A = \{ X(1)*[Y(N)-Y(2)] + X(2)*[Y(3)-Y(1)] + \dots + X(N-1)*[Y(N)-Y(N-2)] + X(N)*[Y(1)-Y(N-1)] \}$

ENTER X,Y PAIRS IN EITHER CLOCKWISE OR COUNTERCLOCKWISE DIRECTION (BUT NOT MIXED)

COPY THE BOTTOM PAIR (Xn,Yn) TO THE TOP OF THE LIST, AND THE ORIGINAL TOP PAIR (X1,Y1) TO THE BOTTOM OF THE LIST. THIS GIVES N+2 COORDINATE PAIRS

BALDWIN HOME 06/10/93 07:46 PM

BASIN 5

| PT # | X | Y | INC | COMP |
|------|-------|--------|---------|------|
| | 6.500 | 0.000 | | |
| 1 | 2.000 | 4.000 | 20.000 | |
| 2 | 0.800 | 10.000 | 9.600 | |
| 3 | 1.100 | 16.000 | 6.600 | |
| 4 | 6.100 | 16.000 | -36.600 | |
| 5 | 4.000 | 10.000 | -58.000 | |
| 6 | 9.000 | 1.500 | -90.000 | |
| 7 | 6.500 | 0.000 | 16.250 | |
| 8 | 2.000 | 4.000 | | |
| 9 | | | | |

CALC AREA 66.075
 FACTOR 2500.000
 TOT AREA 165187.500
 (ACRES) 3.792

BASIN 1

| PT # | X | Y | INC | COMP |
|------|--------|--------|----------|------|
| | 25.500 | 0.000 | | |
| 1 | 8.000 | 0.000 | 64.000 | |
| 2 | 8.000 | 8.000 | 120.000 | |
| 3 | 3.200 | 15.000 | 51.200 | |
| 4 | 1.500 | 24.000 | 25.500 | |
| 5 | 0.000 | 32.000 | 0.000 | |
| 6 | 0.000 | 39.000 | 0.000 | |
| 7 | 4.800 | 51.000 | 86.400 | |
| 8 | 12.800 | 57.000 | -128.000 | |
| 9 | 14.200 | 41.000 | -347.900 | |
| 10 | 20.000 | 32.500 | -360.000 | |
| 11 | 22.500 | 23.000 | -371.250 | |
| 12 | 22.000 | 16.000 | -286.000 | |
| 13 | 24.100 | 10.000 | -265.100 | |
| 14 | 23.000 | 5.000 | -230.000 | |
| 15 | 25.500 | 0.000 | -127.500 | |
| 16 | 8.000 | 0.000 | | |

CALC AREA 884.325
 FACTOR 2500.000
 TOT AREA 2210812.500
 (ACRES) 50.753

BASIN 4

| PT # | X | Y | INC | COMP |
|------|-------|--------|---------|------|
| | 7.200 | 0.000 | | |
| 1 | 1.500 | 0.000 | 7.500 | |
| 2 | 2.000 | 5.000 | 29.000 | |
| 3 | 0.000 | 14.500 | 0.000 | |
| 4 | 3.300 | 14.700 | -24.750 | |
| 5 | 6.800 | 7.000 | -99.960 | |
| 6 | 7.200 | 0.000 | -50.400 | |
| 7 | 1.500 | 0.000 | | |

CALC AREA 69.305
 FACTOR 2500.000
 TOT AREA 173262.500
 (ACRES) 3.978

BASIN 2

| PT # | X | Y | INC | COMP |
|------|--------|--------|----------|------|
| | 8.000 | 0.000 | | |
| 1 | 4.000 | 0.000 | 20.000 | |
| 2 | 3.000 | 5.000 | 30.000 | |
| 3 | 4.000 | 10.000 | 40.000 | |
| 4 | 4.600 | 15.000 | 55.200 | |
| 5 | 4.400 | 22.000 | 52.800 | |
| 6 | 2.500 | 27.000 | 17.500 | |
| 7 | 0.300 | 29.000 | 0.900 | |
| 8 | 0.300 | 30.000 | 0.300 | |
| 9 | 13.500 | 30.000 | -195.750 | |
| 10 | 16.000 | 15.500 | -400.000 | |
| 11 | 10.000 | 5.000 | -155.000 | |
| 12 | 8.000 | 0.000 | -40.000 | |
| | 4.000 | 0.000 | | |

CALC AREA 287.025
 FACTOR 2500.000
 TOT AREA 717562.500
 (ACRES) 16.473

BASIN 3

| PT # | X | Y | INC | COMP |
|------|--------|--------|----------|------|
| | 5.500 | 0.000 | | |
| 1 | 3.300 | 1.000 | 19.800 | |
| 2 | 0.000 | 6.000 | 0.000 | |
| 3 | 0.000 | 10.000 | 0.000 | |
| 4 | 3.000 | 14.200 | 27.000 | |
| 5 | 3.000 | 19.000 | 26.400 | |
| 6 | 1.000 | 23.000 | 8.000 | |
| 7 | -0.600 | 27.000 | -3.420 | |
| 8 | -0.600 | 28.700 | -1.020 | |
| 9 | 6.000 | 28.700 | -10.200 | |
| 10 | 6.000 | 27.000 | -31.200 | |
| 11 | 8.000 | 23.500 | -72.000 | |
| 12 | 9.000 | 18.000 | -85.500 | |
| 13 | 9.000 | 14.000 | -100.800 | |
| 14 | 7.200 | 6.800 | -100.800 | |
| 15 | 5.500 | 0.000 | -31.900 | |
| | 3.300 | 1.000 | | |

CALC AREA 177.820
 FACTOR 2500.000
 TOT AREA 444550.000
 (ACRES) 10.205

FILE=DPMHYD40.WQ1

ALBUQUERQUE, NM, DPM (1/93) CRITERIA - SIMPLE PROCEDURE FOR <= 40 ACRES

PX100-6 = PRECIPITATION EXCESS FROM 100-YEAR 6-HOUR STORM

VOL10D = VOLUME OF RUNOFF FROM 100-YEAR 10-DAY STORM

TRTMT CLASS A=UNDISTURBED, B=LAWNS, C=UNPAVED ROADS, D=ROOFS,PAVEMENT: SEE DPM P 22.5-5

***** PROJECT INFO *****

BADLWIN RESIDENCE - CARMEL AVE, N. ALBQ ACRES

OFFSITE = 16.47 ACRES W OF TRANWAY, 3 DU/GROSS ACRE ALLOWED PER BERN. CO. COMP. PLAN

RAIN ZONE 4 SEE DPM P 22.2-2

100-YEAR PRECIPITATION (P) DEPTHS, INCHES

| 1 HR | 6 HR | 24 HR | 4 DAY | 10 DAY |
|------|------|-------|-------|--------|
| 2.23 | 2.90 | 3.65 | 4.70 | 5.95 |

06/16/93 01:55 PM OFFSITE EXISITING CONDITIONS: ESTIMATED %A,B,C,D = 75,5,15,5

| TRTMT CLASS | AREA SQUARE FEET | AREA ACRES | PX100-6 IN/AC | QP100-6 CFS/AC | QP100-6 CFS | VOL6HR AC-FT | VOL1D AC-FT | VOL4D AC-FT | VOL10D AC-FT |
|-------------|------------------|------------|---------------|----------------|-------------|--------------|-------------|-------------|--------------|
| A | 538172.25 | 12.35 | 0.80 | 2.20 | 27.180 | 0.824 | 0.824 | 0.824 | 0.824 |
| B | 35878.15 | 0.82 | 1.08 | 2.92 | 2.405 | 0.074 | 0.074 | 0.074 | 0.074 |
| C | 107634.45 | 2.47 | 1.46 | 3.73 | 9.217 | 0.301 | 0.301 | 0.301 | 0.301 |
| D | 35878.15 | 0.82 | 2.64 | 5.25 | 4.324 | 0.181 | 0.233 | 0.305 | 0.391 |
| TOTAL | 717563.00 | 16.47 | | | 43.126 | 1.380 | 1.431 | 1.503 | 1.589 |
| | | | | | CU FT | 60096 | 62338 | 65478 | 69215 |

OFFSITE FUTURE CONDITIONS @ 3 DU/ACRE: %A,B,C,D = 22,32,12,34

| TRTMT CLASS | AREA SQUARE FEET | AREA ACRES | PX100-6 IN/AC | QP100-6 CFS/AC | QP100-6 CFS | VOL6HR AC-FT | VOL1D AC-FT | VOL4D AC-FT | VOL10D AC-FT |
|-------------|------------------|------------|---------------|----------------|-------------|--------------|-------------|-------------|--------------|
| A | 157863.86 | 3.62 | 0.80 | 2.20 | 7.973 | 0.242 | 0.242 | 0.242 | 0.242 |
| B | 229620.16 | 5.27 | 1.08 | 2.92 | 15.392 | 0.474 | 0.474 | 0.474 | 0.474 |
| C | 86107.56 | 1.98 | 1.46 | 3.73 | 7.373 | 0.241 | 0.241 | 0.241 | 0.241 |
| D | 243971.42 | 5.60 | 2.64 | 5.25 | 29.404 | 1.232 | 1.582 | 2.072 | 2.656 |
| TOTAL | 717563.00 | 16.47 | | | 60.143 | 2.189 | 2.539 | 3.029 | 3.612 |
| | | | | | CU FT | 95340 | 110588 | 131936 | 157350 |

FILE=DPMHYD40.WQ1

ALBUQUERQUE, NM, DPM (1/93) CRITERIA - SIMPLE PROCEDURE FOR <= 40 ACRES

PX100-6 = PRECIPITATION EXCESS FROM 100-YEAR 6-HOUR STORM

VOL10D = VOLUME OF RUNOFF FROM 100-YEAR 10-DAY STORM

TRTMT CLASS A=UNDISTURBED, B=LAWNS, C=UNPAVED ROADS, D=ROOFS,PAVEMENT: SEE DPM P 22.5-5

***** PROJECT INFO *****

BADLWIN RESIDENCE - CARMEL AVE, N. ALBO ACRES

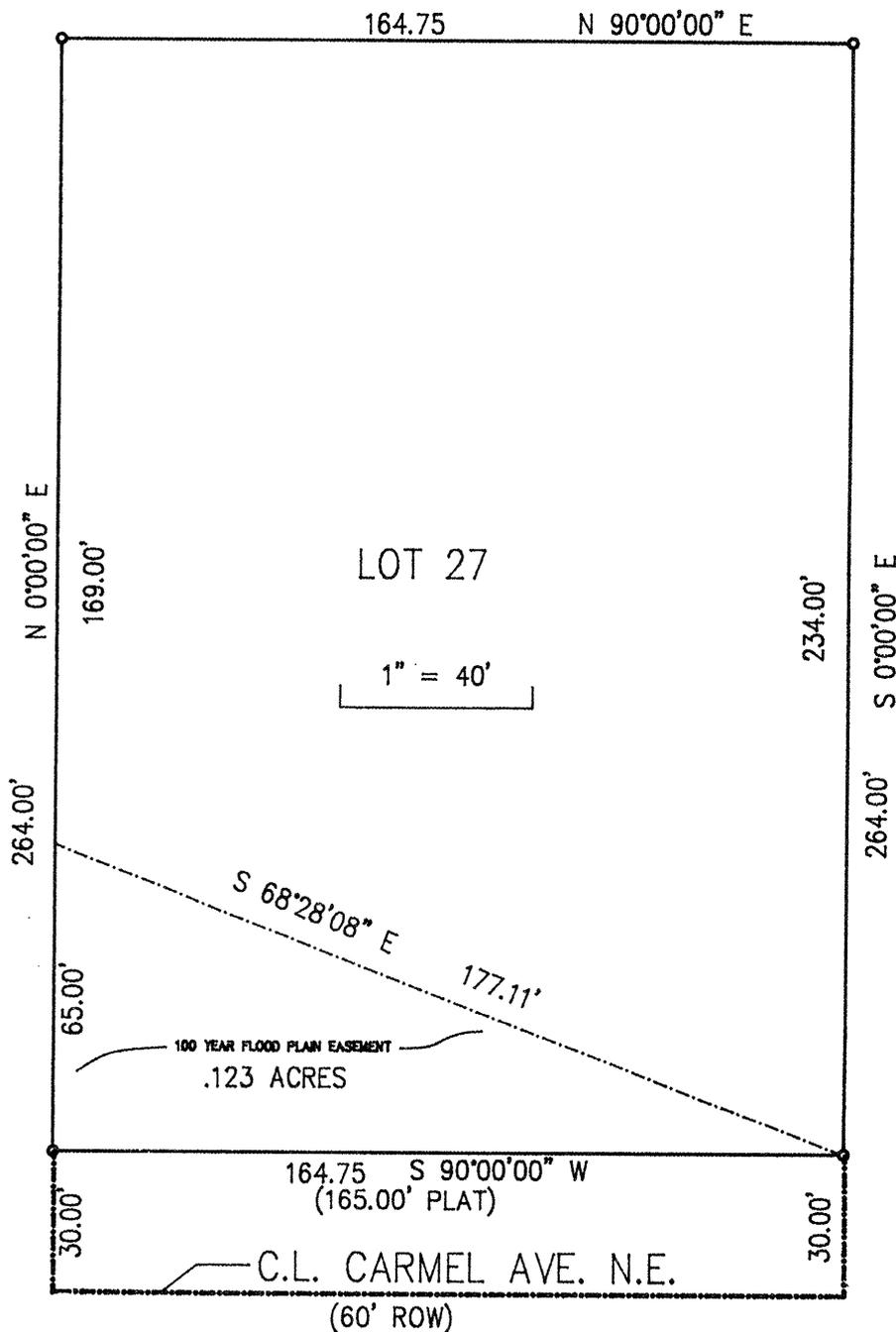
OFFSITE = 16.47 ACRES W OF TRAMWAY, 3 DU/GROSS ACRE ALLOWED PER BERN. CO. COMP. PLAN

06/16/93 01:55 PM ONSITE EXIST CONDITONS: %A,B,C,D = 100,0,0,0

| TRTMT CLASS | AREA SQUARE FEET | AREA ACRES | PX100-6 IN/AC | QP100-6 CFS/AC | QP100-6 CFS | VOL6HR AC-FT | VOL1D AC-FT | VOL4D AC-FT | VOL10D AC-FT |
|-------------|------------------|------------|---------------|----------------|-------------|--------------|-------------|-------------|--------------|
| A | 38552.00 | 0.89 | 0.80 | 2.20 | 1.947 | 0.059 | 0.059 | 0.059 | 0.059 |
| B | 0.00 | 0.00 | 1.08 | 2.92 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C | 0.00 | 0.00 | 1.46 | 3.73 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| D | 0.00 | 0.00 | 2.64 | 5.25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| TOTAL | 38552.00 | 0.89 | | | 1.947 | 0.059 | 0.059 | 0.059 | 0.059 |
| | | | | | CU FT | 2570 | 2570 | 2570 | 2570 |

ONSITE PROPOSED CONDITONS: APPROX %A,B,C,D = 36,36,13,15

| TRTMT CLASS | AREA SQUARE FEET | AREA ACRES | PX100-6 IN/AC | QP100-6 CFS/AC | QP100-6 CFS | VOL6HR AC-FT | VOL1D AC-FT | VOL4D AC-FT | VOL10D AC-FT |
|-------------|------------------|------------|---------------|----------------|-------------|--------------|-------------|-------------|--------------|
| A | 13971.00 | 0.32 | 0.80 | 2.20 | 0.706 | 0.021 | 0.021 | 0.021 | 0.021 |
| B | 13971.00 | 0.32 | 1.08 | 2.92 | 0.937 | 0.029 | 0.029 | 0.029 | 0.029 |
| C | 4990.00 | 0.11 | 1.46 | 3.73 | 0.427 | 0.014 | 0.014 | 0.014 | 0.014 |
| D | 5620.00 | 0.13 | 2.64 | 5.25 | 0.677 | 0.028 | 0.036 | 0.048 | 0.061 |
| TOTAL | 38552.00 | 0.89 | | | 2.747 | 0.093 | 0.101 | 0.112 | 0.125 |
| | | | | | CU FT | 4032 | 4384 | 4875 | 5461 |



LEGAL DESCRIPTION

A certain tract of land to be designated as a Flood Plain Easement being the Southerly portion of Lot numbered Twenty seven (27) in Block numbered Fifteen (15) of Tract 2, Unit 1, North Albuquerque Acres, Bernalillo County, New Mexico, as the same is shown and designated on the Plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on March 23, 1931 in Plat Book D, Page 130, and being more particularly described as follows:

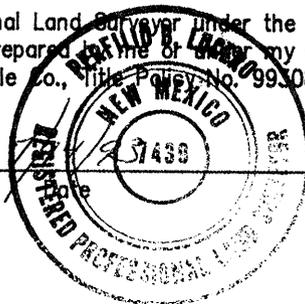
Beginning at the Southeast Corner of said Lot 27, being a point on the North right of way line of Carmel Avenue N.E.; thence from said point of beginning along said right of way S. 90 00'00" W., 164.75' to the Southwest Corner of said Lot 27; thence N. 00 00'00" E., 65', to the Northwest corner; thence S. 68 28'08" E., 177.11' to the point of beginning and containing 0.123 acres more or less.

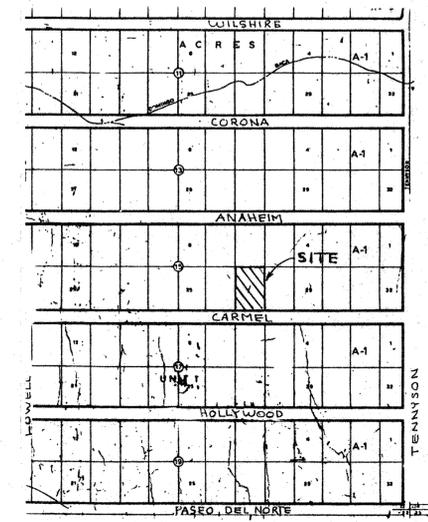
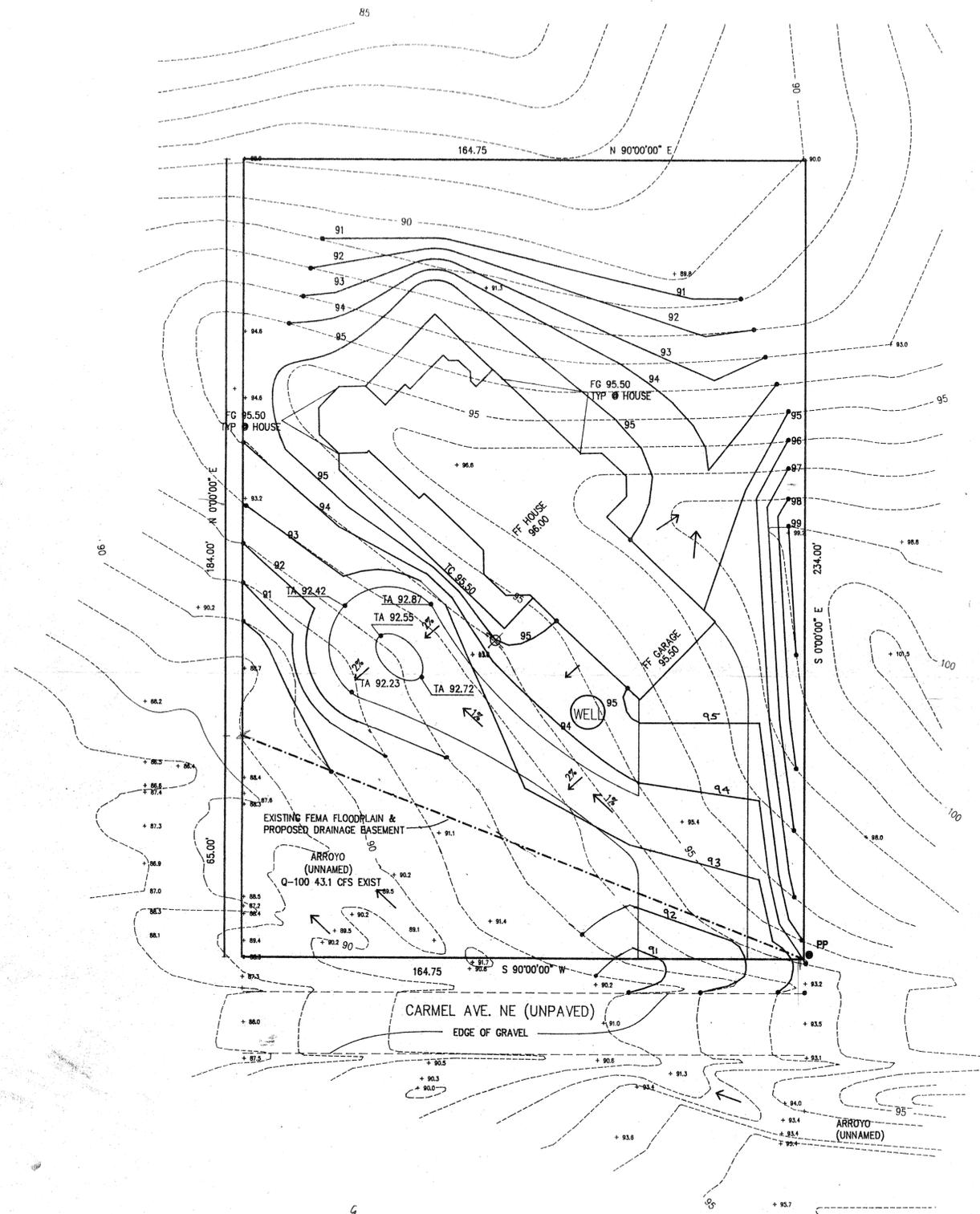
SURVEYOR'S CERTIFICATION

"I, Perfilio B. Lucero, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this easement was prepared by me or under my supervision, from a plat of survey prepared by Mr. Carl R. Harrington, Albuquerque Title Co., Title Policy No. 99308/SJM on May 29th, 1991, and not from an actual field survey.

PERFILIO B. LUCERO

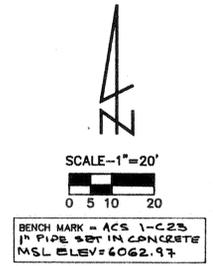
N.M.R.P.L.S. No. 7439





VICINITY MAP (C-22) NO SCALE

DRAINAGE PLAN FOR
BALDWIN RESIDENCE
CARMEL AVENUE NE ALBUQUERQUE, NEW MEXICO
ZONING MAP: C-22
LEGAL DESCRIPTION: LOT 27, BLOCK 15, TRACT 2, UNIT 1, NORTH ALBUQUERQUE ACRES
FLOOD ZONE: AO-1: FIRM MAP #35002 0011 C (SOUTH PORTION OF SITE)



- LEGEND**
- TA TOP OF ASPHALT
 - TP TOP OF PAVEMENT
 - FL FLOW LINE
 - TC TOP OF CURB / CONCRETE
 - SW SIDEWALK
 - FF FINISHED FLOOR
 - FG FINISHED GRADE
 - ED EXISTING GRADE
 - W WATER VALVE
 - M WATER METER
 - F FIRE HYDRANT
 - T TRAFFIC SIGNAL
 - CB TRAFFIC CONTROL BOX
 - NEW CONTOURS
 - - - EXISTING CONTOURS
 - 88.50 NEW SPOT ELEVATION
 - 88.73 EXISTING SPOT ELEVATION
 - FLOW DIRECTION
 - NEW CURB AND GUTTER
 - - - EXISTING CURB AND GUTTER

- GENERAL NOTES**
1. An excavation/construction permit will be required before beginning any work within Bernalillo County right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
 2. All work detailed on these plans to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with the State of New Mexico Standard Specifications for Public Works Construction, most recent edition. Work within County right of way shall be in accord with County requirements, including the latest edition of the County Street Standards.
 3. Two working days prior to any excavation, contractor must contact Line Locating Service (260-1990) for location of existing utilities.
 4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
 5. Backfill compaction shall be according to residential street use.
 6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.
 7. No wall or fence, particularly including chain link fence, shall be constructed in the 100-year flood plain shown in any way that will trap silt or debris and/or obstruct flow.
 8. Septic tank and absorption field shall be located in accord with Bernalillo County Liquid Waste Ordinance, No. 88-1

SITE DESCRIPTION: THE 0.89 ACRE SITE IS LOCATED ON CARMEL AVE. BETWEEN LOWELL ST. AND TENNYSON AT. IN NORTH ALBUQUERQUE ACRES. AN UNNAMED TRIBUTARY TO THE NORTH-DOMINGO BACA ARROYO CROSSES CARMEL ON THE SOUTH SIDE OF THE SITE AND THERE IS A BROAD SWALE ON THE NORTH. A SMALL PORTION OF THE SITE DRAINS TO THE WEST. PRESENTLY THE SITE IS UNDEVELOPED AND HAS THE SPARSE GRASS AND SHRUB VEGETATION TYPICAL OF THE AREA. CURRENT ZONING ALLOWS 1 DWELLING UNIT PER GROSS ACRE (1 DU/AC) AND SOME NEARBY PARCELS HAVE BEEN DEVELOPED AT THIS DENSITY. THE ALBUQUERQUE-BERNALILLO COUNTY COMPREHENSIVE PLAN ALLOWS FOR 3 DU/AC FOR THIS AREA IN THE FUTURE.

PROPOSED IMPROVEMENTS: RESIDENTIAL HOME WITH ONSITE WELL AND SEWAGE SYSTEM

FLOOD ZONE: FEMA MAPS (1983) SHOW A SHALLOW FLOOD HAZARD ZONE (DEPTH APPROX 1 FT.) CROSSING THE SOUTHERN PORTION OF THE SITE. SINCE 1983 THE RE-CONSTRUCTION OF TRAMWAY BOULEVARD HAS CUT OFF FLOW FROM MOST OF THE WATERSHED AND THE REMAINING 16.5 ACRES (APPROX.) PROBABLY WOULD NOT MERIT A FLOOD ZONE BY CURRENT STANDARDS. FIELD INSPECTION INDICATES A SHALLOW SANDY CHANNEL BED HEADING NORTHWEST FROM CARMEL IN THE WEST 1/2 OR 1/3 OF THE SITE (RATHER THAN IN THE SOUTHEAST CORNER AS INDICATED ON THE FEMA MAP) BUT RECENT ROAD GRADING HAS POSSIBLY REDIRECTED FLOW SO THAT IT WILL FOLLOW THE ROAD INSTEAD. FLOOD PLAIN MAPPING FOR THE AREA MAY BE REVISED IN THE NEAR FUTURE.

DESPITE THESE ISSUES, DEVELOPMENT OF THE SITE RESPECTS THE FLOOD PLAIN AS SHOWN ON THE FEMA MAPS. THERE IS NO FILLING IN THE FLOOD PLAIN AND ALL WELLS, STRUCTURES, AND SEWAGE SYSTEMS ARE WELL OUTSIDE AND ABOVE THE MAPPED FLOOD ZONE. NO FLOW-OBSTRUCTING FENCING IS ALLOWED IN THE FLOODPLAIN WHILE THE FLOODPLAIN IS IN EFFECT.

CALCULATIONS BELOW GIVE THE PEAK FLOW IN THE MAPPED FLOOD ZONE FOR THE CURRENT DRAINAGE AREA ABOVE THE WEST PROPERTY LINE. FOR FUTURE CONDITIONS THE 60.1 CFS PEAK RELECTS FULL DEVELOPMENT AT 3 DU/AC AND NO FLOW REDUCING STRUCTURES. SINCE ONE SITE (PRINCE OF PEACE CHURCH) NOW HAS A POND WITH A CONTROLLED OUTLET AND SEVERAL SITES HAVE BEEN DEVELOPED AT 1 DU/AC THE 60.1 CFS IS AN UPPER LIMIT. THE EXISTING CONDITIONS ESTIMATE OF 43.1 CFS IS HIGHER THAN THE 29.5 CFS CITED IN THE DRAINAGE SUBMITTAL FOR LOT 26, ADJACENT ON THE WEST (DOWNSTREAM). IT IS UNCLEAR HOW THE EXISTING 24" CULVERT IN THE UNNAMED DIRT ROAD COULD SERVE AS A SIGNIFICANT FLOW RESTRICTOR, AS INDICATED IN THAT SUBMITTAL, BECAUSE IF FLOW WERE MORE THAN SLIGHTLY ABOVE CULVERT CAPACITY IT WOULD IT SPILL INTO CARMEL AND REJOIN THE MAIN FLOW IN FRONT OF LOT 27, APPROXIMATELY 200 FEET DOWNSTREAM.

HYDROLOGY CALCULATIONS & RESULTS

1. METHODOLOGY: CITY OF ALBUQUERQUE METHOD FOR AREAS <= 40 ACRES
ALBUQUERQUE DPM SECTION 22.2 (JANUARY, 1993)

2. NOTES: * SEE DRAINAGE FILE FOR DETAILS & INDIVIDUAL BASINS

3. RAINFALL ZONE = 4: 100-YR 6-HR DURATION RAIN = 2.90 IN (TABLE 2) (DESIGN STORM)

4. LAND TREATMENTS & PEAK RUNOFF RATES Cp CFS/AC (TABLES 4 & 9)

A = NATURAL Cp = 2.20 B = LANDSCAPING Cp = 2.92
C = PACKED EARTH, DIRT ROADS Cp = 3.73 D = ROOFS, CONCRETE, PAVING Cp = 5.25

| RESULTS | EXISTING | | PROPOSED | | EXISTING | | FUTURE | | |
|---------------|-----------|--------|----------|--------|-----------|---------|--------|---------|--------|
| | TREATMENT | AC-% | Qp | CU FT | TREATMENT | AC-% | Qp | CU FT | |
| TREATMENT A | AC-% | 0.885 | 100.0 | 0.321 | 36.2 | 12.355 | 75.0 | 3.624 | 22.0 |
| TREATMENT B | AC-% | 0.0 | 0.0 | 0.321 | 36.2 | 0.824 | 5.0 | 5.271 | 32.0 |
| TREATMENT C | AC-% | 0.0 | 0.0 | 0.115 | 12.9 | 2.471 | 15.0 | 1.977 | 12.0 |
| TREATMENT D | AC-% | 0.0 | 0.0 | 0.129 | 14.6 | 0.824 | 5.0 | 5.601 | 34.0 |
| | | (0.885 | 100.0) | (0.886 | 99.9) | (16.474 | 100.0) | (16.473 | 100.0) |
| Qpeak, cfs | | 1.95 | 2.75 | 43.1 | 60.1 | | | | |
| VOLUME, CU FT | | 2,570 | 4,032 | 60,096 | 95,340 | | | | |
| VOLUME, AC FT | | 0.06 | 0.09 | 1.38 | 2.19 | | | | |

RESUBMITTAL NEEDS
* DEDICATION OF
EASEMENT PRIOR
TO RELEASE
OF B.P.

C. P. Owen * 8/13/93
A.M.A.P.C.A.

John Taylor 8/13/93
BERNALILLO COUNTY.



**BALDWIN RESIDENCE
GRADING & DRAINAGE PLAN**

RYALS engineering & construction services
4929 Idlewild S.E. Albuquerque, NM 87109
(505) 265-8267 269-1142 mobile telephone

SHEET NO. 1 OF 1