

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PEP BOYS STORE ZONE ATLAS/DRNG. FILE #: K-18/D11
LEGAL DESCRIPTION: Tract A, Gillett Addition
CITY ADDRESS: 5600 Central Avenue SE
ENGINEERING FIRM: Marvin R Kortum CONTACT: Marvin R Kortum
1605 Speakman Drive, SE
ADDRESS: Albuquerque, New Mexico 87123 PHONE: (505) 299-0774
OWNER: The Pep Boys CONTACT: Jack Thompson
1122 West Washington Blvd.
ADDRESS: Los Angeles, CA 90015 PHONE: (213) 745-5616
ARCHITECT: Reeves Associates Architechs CONTACT: Rick Rosen
416 South Hill Street Suite 1100
ADDRESS: Los Angeles, CA 90013 PHONE: (213) 680-3230
SURVEYOR: Southwest Surveying co Inc CONTACT: Dan Graney
333 Lomas Blvd., NE
ADDRESS: Albuquerque, NM 87102 PHONE: (505) 247-4444
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YESDRB NO. 89-560☐ NO

EPC NO. _____

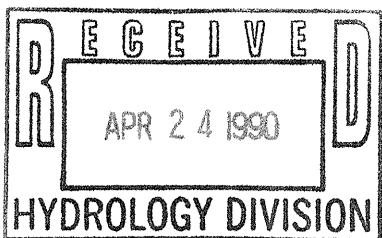
☒ COPY OF CONFERENCE RECAP
SHEET PROVIDED

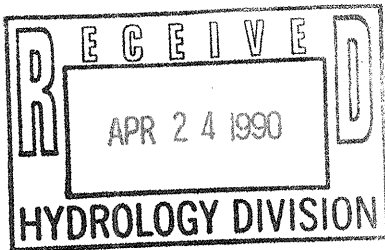
PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAINAGE PLAN☒ GRADING PLAN☒ EROSION CONTROL PLAN☐ ENGINEER'S CERTIFICATION☒ Revision

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☒ FINAL PLAT APPROVAL☒ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☐ GRADING/PAVING PERMIT APPROVAL☐ OTHER _____ (SPECIFY)DATE SUBMITTED: April 23, 1990BY: Marvin R Kortum



Marvin R Kortum
1605 Speakman Drive SE
Albuquerque, New Mexico 87113
NMPE 6519
(505)299-0774

April 23, 1990

City of Albuquerque
Design Hydrology Section
Public Works Department
P. O. Box 1293
Albuquerque, New Mexico 87103

REFERENCE: Drainage Plan for PEP BOYS Store on Central Ave, SE
(K-18/D11)

Dear Mr. Aguirre

Comments in this letter are in response to your letter of April 2, 1990 on the same subject. Specific comments are discussed below:

1. My estimate for run off from the Postal Service vacant lot for the March 19, 1990 (received at Hydrology) submittal was based on the existing state of development of that lot, which is estimated to be 80% asphalt surfaced hardstand, and 20 earth or gravel covered, for which I used the C factor of .40, undeveloped, based on the January 14, 1986 emergency rule. You state that the proposed channel and sidewalk culvert must be sized for the total developed run off. Since that property is presently controlled by the Postal Service, and I have been unable to obtain information on their plans for the property, I have used a worst case scenario, using 100% asphalt hardstand, and a C factor of .95, which gives a $Q = CIA = .95 \times 4.95 \times 2.25 = 10.6 \text{ ft.}^3/\text{sec.}$

The estimated peak flow of $10.6 \text{ ft.}^3/\text{sec}$ is more than the capacity of the original 24" wide sidewalk culvert. Accordingly, the channel and the sidewalk culvert have been changed to two 16" wide sidewalk culverts, and a 41" wide channel leading to the sidewalk. The capacity of each culvert is $5.68 \text{ ft.}^3/\text{sec.}$ at a depth of 7", for a total capacity of $11.43 \text{ ft.}^3/\text{sec.}$, which is greater than the estimated peak flow of $10.6 \text{ ft.}^3/\text{sec.}$

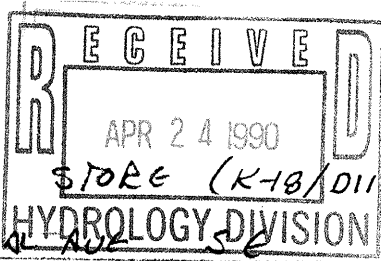
2. The note concerning the requirement for an engineer's Certification prior to the City issuing a Certificate of Occupancy is now included on the plans.

Request your review and approval of the revised grading and drainage plan.

Sincerely,



Marvin R Kortum



PCA BOYS STORE (K-18/D11)
5600 CENTRAL AVE SE

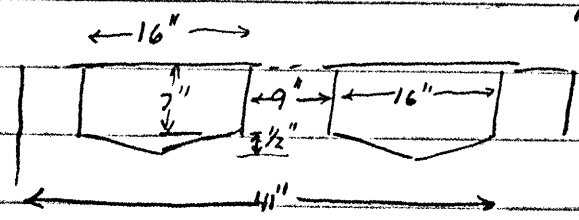
MARVIN R KORTUM
APRIL 23 1990

CHANNEL FLOW CALCULATIONS:

PEAK FLOW FROM POSIAL SERVICE VACANT PROPERTY

$$Q = C L A = .95 \times 4.95 \times 2.25 = 10.6 \text{ ft}^3/\text{sec}$$

SIDEWALK CULVERT CAPACITY $Q = VA = A \frac{1.486}{m} S^{1/2} R_H^{2/3}$



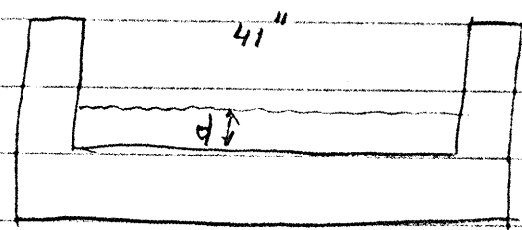
CONSIDER TWO PARALLEL
CULVERTS $m = .014$

$$S = .02 \text{ ft/ft} \quad S^{1/2} = .1414214$$

PER CHANNEL

d ft	A ft ²	wp ft	R _H ft	R _H ^{2/3}	V ft/sec	Q ft ³ /sec	2Q ft ³ /sec
.5833	.02777 - TRUNK .77777 - REG.	2.5	.3222	.4700	7.06	5.68	11.4
	.86555						

LEAD IN CHANNEL CAPACITY



$$S = \frac{68.80 - 68.00}{44} = .018 \quad S^{1/2} = .13416$$

$$m = .014$$

d ft	A ft ²	wp ft	R _H ft	R _H ^{2/3}	V	Q
.1	.3417	3.617	.09447	.2074	2.95	1
.2	.6833	3.817	.179015	.3176	4.52	3.09
.4	1.3667	4.217	.3241	.4718	6.72	9.18
.5	1.7085	4.417	.3868	.5309	7.56	12.92

∴ Q OF 10.6 WILL BE AT d BETWEEN .4 AND .5 FEET.

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 3, 1990

Marvin R. Kortum, P.E.
1605 Speakman Drive, SE
Albuquerque, New Mexico 87123

RE: REVISED DRAINAGE PLAN FOR PEP BOYS STORE ON CENTRAL, SE
(K-18/D11) REVISION DATED APRIL 23, 1990

Dear Mr. Kortum:

Based on the information provided on your April 14, 1990 resubmittal, the above referenced drainage plan is approved for Building Permit.

Please be advised that a separate permit is required for construction within City Right-of-Way. A copy of this approved letter must be on hand when applying for the excavation permits. Also, prior to Certificate of Occupancy release we will need Certification of the Finish Floor elevation.

If I can be of further assistance, please feel free to contact me at 768-2650.

Sincerely,

Bernie J. Montoya
for Fred Aguirre
Hydrology Division

BJM:jc
WP+1757

cc: Darlene Saavedra

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

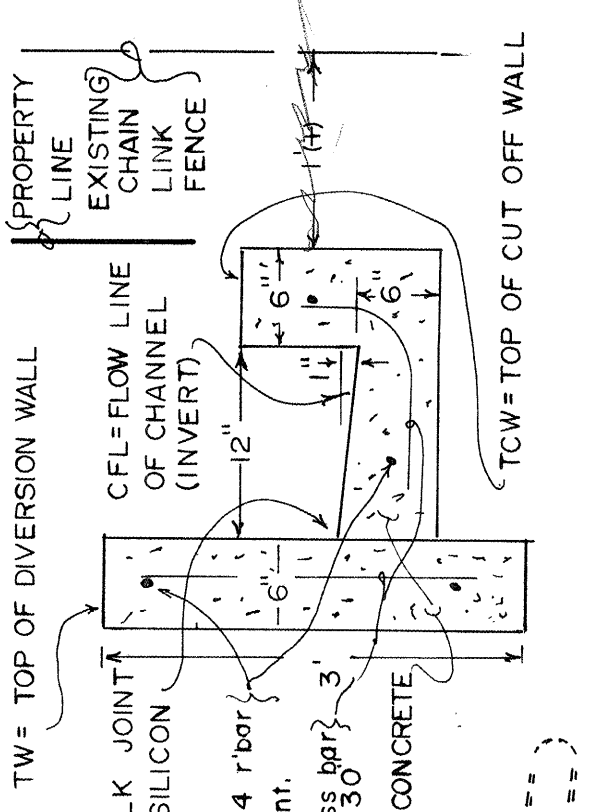
Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

LEGAL DESCRIPTION
TRACT A, GILLETTE ADDITION

- REFERENCES
City of Albuquerque Standard Specifications for Public Works, and the following listed drawings and sections:
2236 Sidewalk culvert with steel top plate
2420 Concrete Valley gutter (Int-Private) entrance details
2430 Sidewalk details
2440 Metal chair ramp
2450 Wheel chair ramp
2450 Concrete joints
2235 Drain line through curb

- NOTES
1. Entrance way. See Dwg 2426 and 2420.
2. Transition from city standard curb (6" high) to owner standard curb (6" high) within two feet length.
3. Replace existing driveway and curb and gutter and 6 feet wide sidewalks and gutter and 6 feet wide sidewalks and gutter with steel plate top plate.
4. Dwg 2236-2-16" wide culverts.
5. Curb and gutter (owner detail 208).
6. Curb (owner detail 217).
7. Landscaped areas. Unless otherwise noted, surface to be graded from edge of curb to top of curb. See Landscaping plan for grading and planting details.
8. Painted markings
9. Asphalt paving
10. See separate drawing, City of Albuquerque Project # 4050 for details of the alley and adjacent areas.
11. Existing grades as shown represent earth surfaces including existing structures and utilities to be removed.
12. Sidewalk and curb & gutter may be required to be removed and replaced by Albuquerque permit process.



NOTE: Along the east side of the building the building foundation wall serves as the diversion wall. See sheet A-1

BENCHMARK
6-K18, located on East Central Avenue median strip, 233.5' east of the center line of San Mateo Boulevard. Station is a standard ACS disk set a concrete block, stamped 6-K18 ACS
Elevation: 5259.774 feet

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A certain tract of land being and comprising lots numbered six (6) (1), seven (7) (2), eight (8) (3), nine (9) (4), ten (10) (5), eleven (11) (6), twelve (12) (7), thirteen (13) (8), fourteen (14) (9), fifteen (15) (10), sixteen (16) (11), seventeen (17) (12), eighteen (18) (13), nineteen (19) (14), twenty (20) (15), twenty-one (21) (16), twenty-two (22) (17), twenty-three (23) (18), twenty-four (24) (19), twenty-five (25) (20), twenty-six (26) (21), twenty-seven (27) (22), twenty-eight (28) (23), twenty-nine (29) (24), thirty (30) (25), thirty-one (31) (26), thirty-two (32) (27), thirty-three (33) (28), thirty-four (34) (29), thirty-five (35) (30), thirty-six (36) (31), thirty-seven (37) (32), thirty-eight (38) (33), thirty-nine (39) (34), forty (40) (35), forty-one (41) (36), forty-two (42) (37), forty-three (43) (38), forty-four (44) (39), forty-five (45) (40), forty-six (46) (41), forty-seven (47) (42), forty-eight (48) (43), forty-nine (49) (44), fifty (50) (45), fifty-one (51) (46), fifty-two (52) (47), fifty-three (53) (48), fifty-four (54) (49), fifty-five (55) (50), fifty-six (56) (51), fifty-seven (57) (52), fifty-eight (58) (53), fifty-nine (59) (54), sixty (60) (55), sixty-one (61) (56), sixty-two (62) (57), sixty-three (63) (58), sixty-four (64) (59), sixty-five (65) (60), sixty-six (66) (61), sixty-seven (67) (62), sixty-eight (68) (63), sixty-nine (69) (64), seventy (70) (65), seventy-one (71) (66), seventy-two (72) (67), seventy-three (73) (68), seventy-four (74) (69), seventy-five (75) (70), seventy-six (76) (71), seventy-seven (77) (72), seventy-eight (78) (73), seventy-nine (79) (74), eighty (80) (75), eighty-one (81) (76), eighty-two (82) (77), eighty-three (83) (78), eighty-four (84) (79), eighty-five (85) (80), eighty-six (86) (81), eighty-seven (87) (82), eighty-eight (88) (83), eighty-nine (89) (84), ninety (90) (85), ninety-one (91) (86), ninety-two (92) (87), ninety-three (93) (88), ninety-four (94) (89), ninety-five (95) (90), ninety-six 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The Fast-West alley as mentioned above is undergoing a vacation process (V-90-14) within the city of Albuquerque, New Mexico. The vacationed alley must be purchased and utilities needed to be dealt with prior to final plat action.

--- GAS AS SHOWN HEREON IS PER GAS COMPANY MAP.

-- WATER AS SHOWN HEREON IS FROM CITY WATER MAP

- SEWER AS SHOWN HEREON IS FROM CITY SEWER MAP

UTILITY COMPANIES PRIOR TO DESIGN OR CONSTRUCTION.

RECEIVED
APR 24 1990

FLOODING Subject property within Zone AO areas of 100-year shallow floodin where depths are between 1 - 3 feet. Average depths of inundation are shown, but no flood hazard factors are determined per panel 30 of 5 City of Albuquerque, New Mexico, effective date October 14, 1983.

City of Albuquerque, New Mexico
Public Works Department

Name of Station, 6-K18 State N. Mex. Co. Bern.
Establishing Agency ACS Year 1974 Chief of Party S. - Prugh Ho.
Section Township Range Map No. K18

I, Franklin E. Wilson, licensed under the laws of the State of New York as a Real Estate Broker, do hereby certify that the foregoing plat was prepared by me from the following facts:

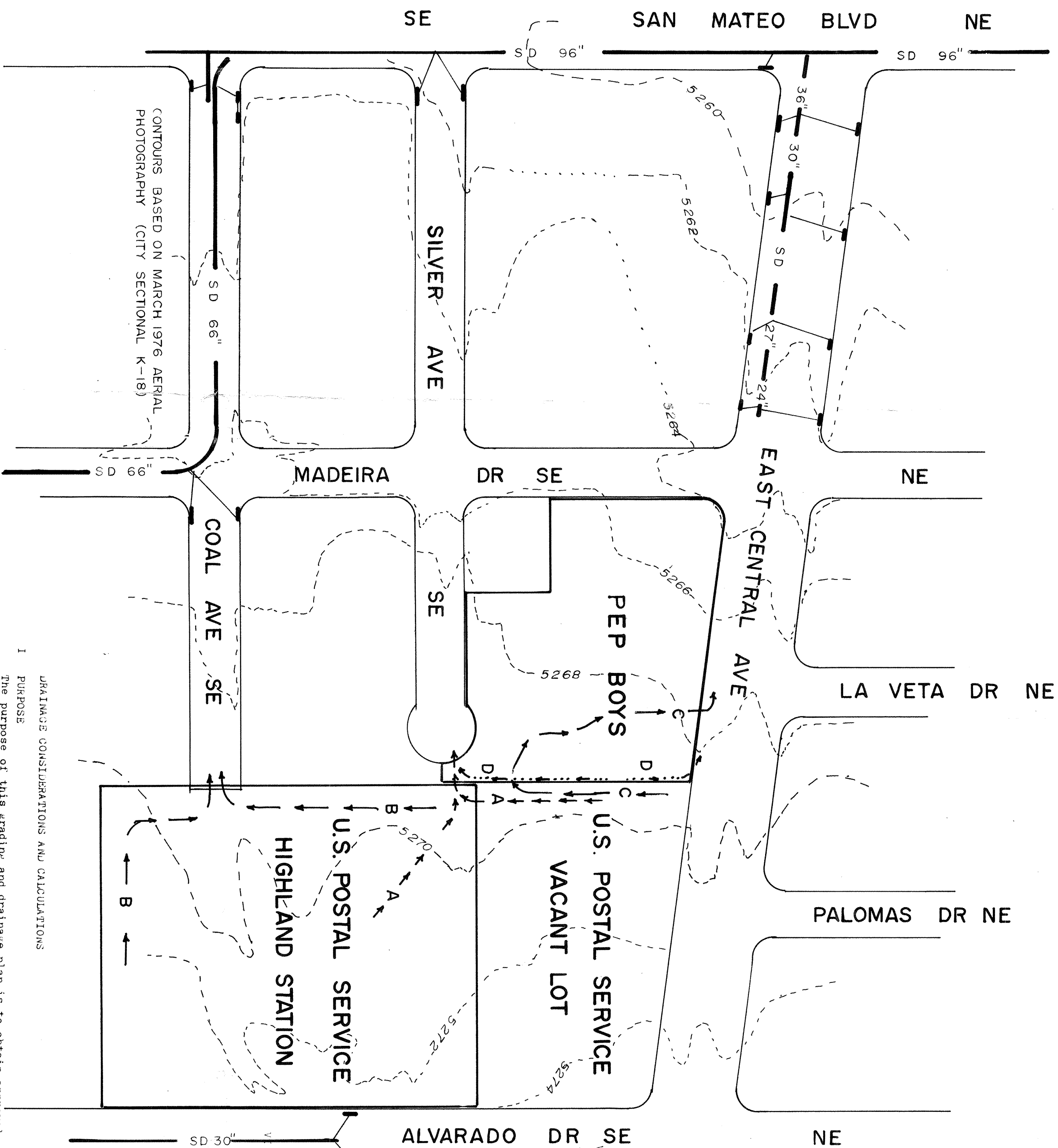
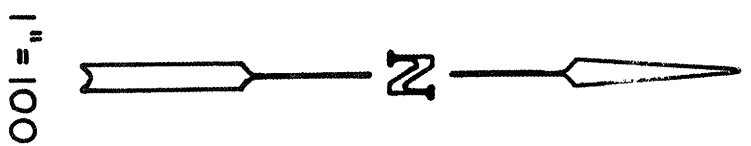
INTEREST AND NICK KAMISON A/K/A NICK PAUL KANISHON, AS HIS SON, OF BEN BRONSTEIN AND MARY JO BRONSTEIN, HIS WIFE, AN UNDIVIDED 1/8 INTEREST IN LOT 1, GILLETTE AND LOTS 3 & 4, BLOCK 4, EVANS) A PURCHASER, IAS TO LOT 1, GILLETTE AND LOTS 3 & 4, BLOCK 4, EVANS) A JESALIA ANN FETTERSOLE, AS HER SOLE AND SEPARATE PROPERTY AND TO REALTY CO., A CO-PARTNERSHIP, FEE SIMPLE OWNER SUBJECT TO THE INTEREST OF NICK KAMISON A/K/A NICK PAUL KANISHON, AS HIS SON, AND LOTS 5 & 6, BLOCK 4, EVANS) AND THE CITY OF ALBUQUERQUE (AS A PORTION OF THE ALLEY LYING BETWEEN GILLETTE ADDITION & EVANS) ADDITION) that this plat was prepared by me or under my direct supervision from notes of a field survey showing the proper ties to locally known landmarks, and from other evidence showing the proper ties to local rights-of-way over or under the property together with any encroachments or projections, fences, or any other matters, and that there are no other easements or rights-of-way in use or in evidence, over or under the property shown on the foregoing plat, and that there are no other contiguous property by the improvements located on the subject property, nor any encroachment or improvements on the subject property, nor any subject property other than those shown on property, recorded documents provided to me, and that the same is true to the best of my knowledge and belief.

1605 Speakman Drive, S.E.
Ibuprofen, New Mexico 87123

EXISTING DEVELOPMENT
UPGRADING AND DRAINAGE PLAN
PREP BOYS STORE
5600 EAST CENTRAL AVE

2 OF 3

Franklin E. Wilson, New Mexico Licensed Surveyor No. 6446
SOUTHWEST SURVEYING CO., INC.
333 Lomas Blvd., N.E.
Albuquerque, New Mexico 87102
(505) 247-4444



```

graph TD
    A[→ A] --> B[→ B]
    B --> C[→ C]
    C --> D[→ D]
    D --> E[→ E]
    E --> F[→ F]
    F --> G[→ G]
    G --> H[→ H]
    H --> I[→ I]
    I --> J[→ J]
    J --> K[→ K]
    K --> L[→ L]
    L --> M[→ M]
    M --> N[→ N]
    N --> O[→ O]
    O --> P[→ P]
    P --> Q[→ Q]
    Q --> R[→ R]
    R --> S[→ S]
    S --> T[→ T]
    T --> U[→ U]
    U --> V[→ V]
    V --> W[→ W]
    W --> X[→ X]
    X --> Y[→ Y]
    Y --> Z[→ Z]
    Z --> AA[→ AA]
    AA --> AB[→ AB]
    AB --> AC[→ AC]
    AC --> AD[→ AD]
    AD --> AE[→ AE]
    AE --> AF[→ AF]
    AF --> AG[→ AG]
    AG --> AH[→ AH]
    AH --> AI[→ AI]
    AI --> AJ[→ AJ]
    AJ --> AK[→ AK]
    AK --> AL[→ AL]
    AL --> AM[→ AM]
    AM --> AN[→ AN]
    AN --> AO[→ AO]
    AO --> AP[→ AP]
    AP --> AQ[→ AQ]
    AQ --> AR[→ AR]
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    AS --> AT[→ AT]
    AT --> AU[→ AU]
    AU --> AV[→ AV]
    AV --> AW[→ AW]
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    AX --> AY[→ AY]
    AY --> AZ[→ AZ]
    AZ --> BA[→ BA]
    BA --> BB[→ BB]
    BB --> BC[→ BC]
    BC --> BD[→ BD]
    BD --> BE[→ BE]
    BE --> BF[→ BF]
    BF --> BG[→ BG]
    BG --> BH[→ BH]
    BH --> BI[→ BI]
    BI --> BJ[→ BJ]
    BJ --> BK[→ BK]
    BK --> BL[→ BL]
    BL --> BM[→ BM]
    BM --> BN[→ BN]
    BN --> BO[→ BO]
    BO --> BP[→ BP]
    BP --> BQ[→ BQ]
    BQ --> BR[→ BR]
    BR --> BS[→ BS]
    BS --> BT[→ BT]
    BT --> BU[→ BU]
    BU --> BV[→ BV]
    BV --> BW[→ BW]
    BW --> BX[→ BX]
    BX --> BY[→ BY]
    BY --> BZ[→ BZ]
    BZ --> CA[→ CA]
    CA --> CB[→ CB]
    CB --> CC[→ CC]
    CC --> CD[→ CD]
    CD --> CE[→ CE]
    CE --> CF[→ CF]
    CF --> CG[→ CG]
    CG --> CH[→ CH]
    CH --> CI[→ CI]
    CI --> CJ[→ CJ]
    CJ --> CK[→ CK]
    CK --> CL[→ CL]
    CL --> CM[→ CM]
    CM --> CN[→ CN]
    CN --> CO[→ CO]
    CO --> CP[→ CP]
    CP --> CQ[→ CQ]
    CQ --> CR[→ CR]
    CR --> CS[→ CS]
    CS --> CT[→ CT]
    CT --> CU[→ CU]
    CU --> CV[→ CV]
    CV --> CW[→ CW]
    CW --> CX[→ CX]
    CX --> CY[→ CY]
    CY --> CZ[→ CZ]
    CZ --> DA[→ DA]
    DA --> DB[→ DB]
    DB --> DC[→ DC]
    DC --> DD[→ DD]
    DD --> DE[→ DE]
    DE --> DF[→ DF]
    DF --> DG[→ DG]
    DG --> DH[→ DH]
    DH --> DI[→ DI]
    DI --> DJ[→ DJ]
    DJ --> DK[→ DK]
    DK --> DL[→ DL]
    DL --> DM[→ DM]
    DM --> DN[→ DN]
    DN --> DO[→ DO]
    DO --> DP[→ DP]
    DP --> DQ[→ DQ]
    DQ --> DR[→ DR]
    DR --> DS[→ DS]
    DS --> DT[→ DT]
    DT --> DU[→ DU]
    DU --> DV[→ DV]
    DV --> DW[→ DW]
    DW --> DX[→ DX]
    DX --> DY[→ DY]
    DY --> DZ[→ DZ]
    DZ --> EA[→ EA]
    EA --> EB[→ EB]
    EB --> EC[→ EC]
    EC --> ED[→ ED]
    ED --> EE[→ EE]
    EE --> EF[→ EF]
    EF --> EG[→ EG]
    EG --> EH[→ EH]
    EH --> EI[→ EI]
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    EJ --> EK[→ EK]
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    FD --> FE[→ FE]
    FE --> FF[→ FF]
    FF --> FG[→ FG]
    FG --> FH[→ FH]
    FH --> FI[→ FI]
    FI --> FJ[→ FJ]
    FJ --> FK[→ FK]
    FK --> FL[→ FL]
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    FM --> FN[→ FN]
    FN --> FO[→ FO]
    FO --> FP[→ FP]
    FP --> FQ[→ FQ]
    FQ --> FR[→ FR]
    FR --> FS[→ FS]
    FS --> FT[→ FT]
    FT --> FU[→ FU]
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    GC --> GD[→ GD]
    GD --> GE[→ GE]
    GE --> GF[→ GF]
    GF --> GG[→ GG]
    GG --> GH[→ GH]
    GH --> GI[→ GI]
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    GM --> GN[→ GN]
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    HL --> HM[→ HM]
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    HN --> HO[→ HO]
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    HQ --> HR[→ HR]
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    HS --> HT[→ HT]
    HT --> HU[→ HU]
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    HX --> HY[→ HY]
    HY --> HZ[→ HZ]
    HZ --> IA[→ IA]
    IA --> IB[→ IB]
    IB --> IC[→ IC]
    IC --> ID[→ ID]
    ID --> IE[→ IE]
    IE --> IF[→ IF]
    IF --> IG[→ IG]
    IG --> IH[→ IH]
    IH --> II[→ II]
    II --> IJ[→ IJ]
    IJ --> IK[→ IK]
    IK --> IL[→ IL]
    IL --> IM[→ IM]
    IM --> IN[→ IN]
    IN --> IO[→ IO]
    IO --> IP[→ IP]
    IP --> IQ[→ IQ]
    IQ --> IR[→ IR]
    IR --> IS[→ IS]
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    IT --> IU[→ IU]
    IU --> IV[→ IV]
    IV --> IW[→ IW]
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    IX --> IY[→ IY]
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    JA --> JB[→ JB]
    JB --> JC[→ JC]
    JC --> JD[→ JD]
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    JE --> JF[→ JF]
    JF --> JG[→ JG]
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    JJ --> JK[→ JK]
    JK --> JL[→ JL]
    JL --> JM[→ JM]
    JM --> JN[→ JN]
    JN --> JO[→ JO]
    JO --> JP[→ JP]
    JP --> JQ[→ JQ]
    JQ --> JR[→ JR]
    JR --> JS[→ JS]
    JS --> JT[→ JT]
    JT --> JU[→ JU]
    JU --> JV[→ JV]
    JV --> JW[→ JW]
    JW --> JX[→ JX]
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    JY --> JZ[→ JZ]
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    KC --> KD[→ KD]
    KD --> KE[→ KE]
    KE --> KF[→ KF]
    KF --> KG[→ KG]
    KG --> KH[→ KH]
    KH --> KI[→ KI]
    KI --> KJ[→ KJ]
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    KM --> KN[→ KN]
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    KQ --> KR[→ KR]
    KR --> KS[→ KS]
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    KU --> KV[→ KV]
    KV --> KW[→ KW]
    KW --> KX[→ KX]
    KX --> KY[→ KY]
    KY --> KZ[→ KZ]
    KZ --> LA[→ LA]
    LA --> LB[→ LB]
    LB --> LC[→ LC]
    LC --> LD[→ LD]
    LD --> LE[→ LE]
    LE --> LF[→ LF]
    LF --> LG[→ LG]
    LG --> LH[→ LH]
    LH --> LI[→ LI]
    LI --> LJ[→ LJ]
    LJ --> LK[→ LK]
    LK --> LL[→ LL]
    LL --> LM[→ LM]
    LM --> LN[→ LN]
    LN --> LO[→ LO]
    LO --> LP[→ LP]
    LP --> LQ[→ LQ]
    LQ --> LR[→ LR]
    LR --> LS[→ LS]
    LS --> LT[→ LT]
    LT --> LU[→
```

HYDROLOGY APPROVAL & INSPECTION

APPROVED B. M. Hodge DATE 5/19/90
ENGINEER
APPROVAL DATE _____ DISAPPROVED _____
INSPECTION REQUESTED DATE _____
SURVEY DATE _____
PHOTOLOGICAL RECORD NO. _____
PRINTED BY _____
CONTENTS _____

II. DESIGN CRITERIA

There is an AO-1 flood plain along Central Avenue, so building finished floor elevation is to be 2 feet above the highest adjacent flow line elevation. The above is based on the City of Albuquerque Flood Insurance Rate Map, panel 30 of 50, and guidance from the City of Albuquerque Hydrology Section dated December 19, 1986.

IV EXISTING SITE RUN OFF:

[illegible]

Item	Area 1, %	C	CX6	CN	CX66
total	26500	30.5	.90	.275	
hardening	54100	61.5	.95	.585	96
unhardened	12000	14.5	.95	.585	96
undeveloped	2030	2.3	.40		3.3
sum	87930	= 2.0 acre	.883		79
Peak Flow, Q_{peak} , $C = .883$, $I = .95$, $A = 2.02$					1.057 run C
					Plate 22.2 C-W-rel

TOTAL VOLUME: $269030 \text{ ft}^3 \times 1.75 \text{ in.} \times 1 \text{ ft./12 in.} = 12820 \text{ ft}^3$

USE/DESIGN SITE: RUN OFF

THE PEP RUNS building and adjacent parking and landscaped areas are shown on the drawings. The estimated annual runoff from development which would occur during the 100 year storm is as follows:

Item	Area ft. ²	% C	C%	CN	CNS
Roof -	21850	.71	.90	.96	25.92
Asphalt	3280	.27	.90	.96	8.76
Grassland	5080	.43	.25	.58	2.96
Runoff	6970	2.02 acre	.85	.53	1.44*
Sum					39.08

run off: Phase 22.2

Peak flow: $Q = CIA = 0.853 \times 4 \times 0.95 \times 2.02 = 6.53 \text{ cfs/sec.}$
Total volume: $V = 0.7930 \text{ ft}^2 \times 1.445 \text{ in.} \times 1 \text{ ft}^2 / 12 \text{ in.} = 10.625 \text{ ft}^3$
The run off from the developed site is less than that for the existing conditions site, for Q , 3 ft/sec less (8.63-8.33), and for V , 2.199 ft³ less (12.820 - 10.625).
The flow pattern of the new development is essentially the same as the previous pattern, with most flow exiting onto Silver Avenue and Medina Avenue, and less than 5% directly onto Silver Avenue.

[illegible][illegible]

VII CONCLUSIONS

A. The proposed development can be constructed without danger to itself from existing flood hazards.

REFERENCES

- A DEVELOPMENT PROCESS MANUAL, ALBUQUERQUE, NM
B NOTICE OF EMERGENCY RULE, SIGNED BY MAYOR SCHULTZ
JAN 14, 1986
C SOIL SURVEY OF BERNALILLO COUNTY, NM, SOIL CONSERVATION SERVICE
USDA
D CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC
WORKS, CONSTRUCTION

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OFF SITE FLOWS
GRADING AND DRAINAGE PLAN
PEP BOYS STORE
5600 EAST CENTRAL AVE

