

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 12, 1990

W. Reed Edgel Rodriquez & Associates 2500 Garfield SE Suite 5 Albuquerque, NM 87106

RE: DRAINAGE PLAN FOR GARCIA PLUMBING (L-21/D38) ENGINEER'S STAMP DATED APRIL 6, 1990

Dear Mr. Edgel:

Based on the information provided on your April 6, 1990 submittal, the above referenced drainage plan is approved for Building Permit.

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

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

Sincerely,

Fred J. Aguirre, PE Hydrology Division

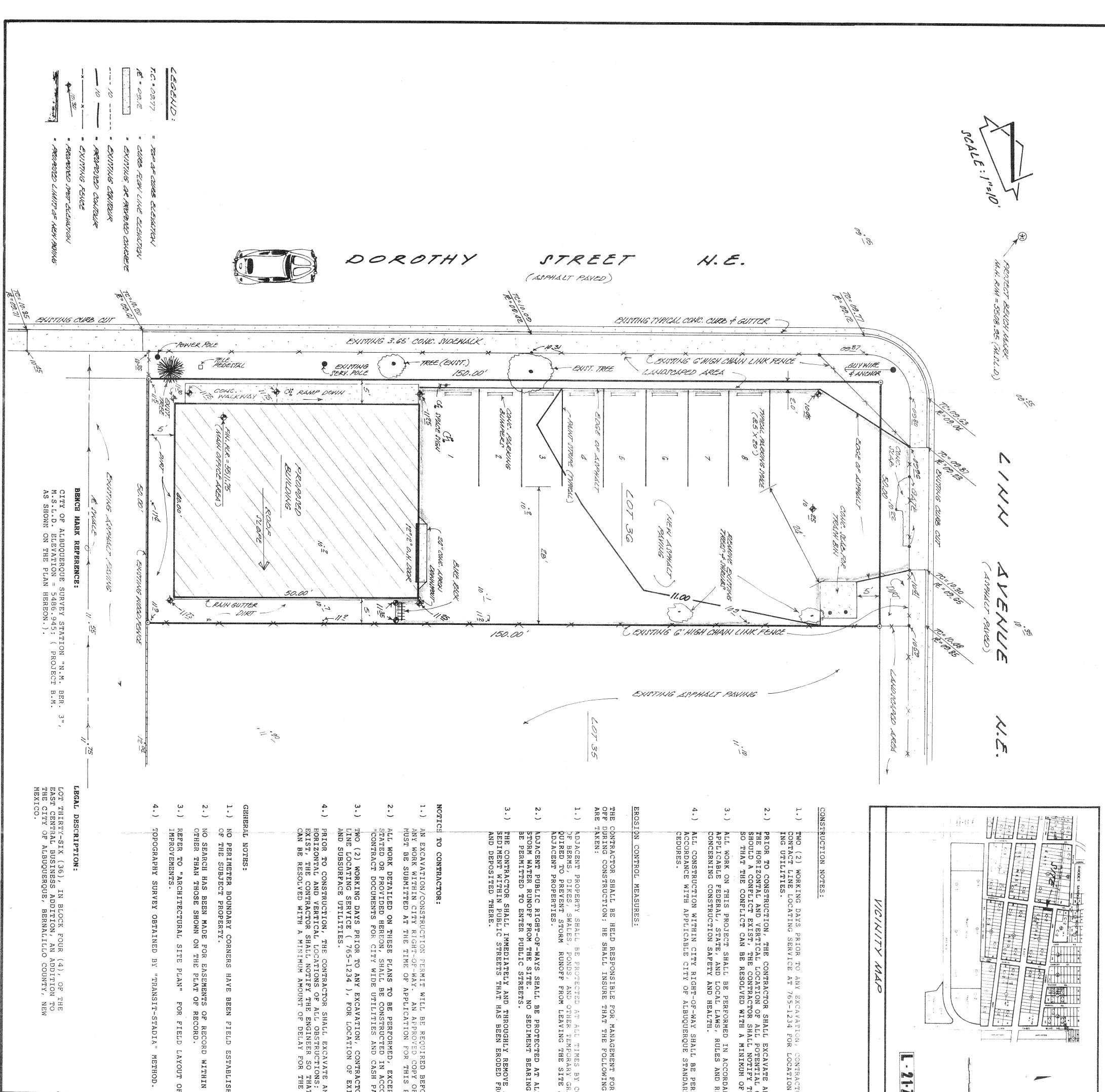
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BJM:FJA:jc WP+1789

PUBLIC WORKS DEPARTMENT

DRAINAGE INFORMATION SHEET

PROJECT TITLE: GARCIA PLUMBING ZONE	E ATLAS/DRNG. FILE #: $\frac{2-21}{D30}$
LEGAL DESCRIPTION: LOT 36, BLOCK 4, E	AST CENTRAL BUSINESS ADDITION
CITY ADDRESS: 11300 CINN N.E., AL	
ENGINEERING FIRM: CORDORIGUEZ & ASSOCIATE	SCONTACT: MR-EDGEL/MR-RODRIGU
ADDRESS: 2500 GARFIELD S.E. #5	PHONE: 266-3830
DWNER: GARCIA PLUMBING	CONTACT: MR. GARCIA
ADDRESS: 1/300 LINN N.E.	PHONE: 294-1973
ARCHITECT: MICHAEL BELTRAN, AIA	CONTACT: MR. BELTRAM
ADDRESS: 60 P.	PHONE:
SURVEYOR: TORRES SURVEYING CO.	CONTACT: JIM TORRES
ADDRESS: 1570 BRIDGE S.W. (CITY)	PHONE: 243-4854
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
NO EPO	3 NO
DRAINAGE REPORT DRAINAGE PLAN CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION	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)
HEYDROLOGY DAVIS ON	•
BY: RODRIGUEZ & ASSOCIATES	•••
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- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 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 FOR THE PROJECT.
- ESTABLISHED PER
- LAYOUT OF

CONTRACTOR LOCATION OF F EXIST-

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AS SHOWN ON THE VICINITY MAP HEREON THE SUBJECT SITE IS LOCATED SOUTHEAST INTERSECTION OF DOROTHY STREET N.E. AND LINN AVENUE IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

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SITE GRADING AND DRAINAGE PLAN
VICINITY MAP
LEGAL DESCRIPTION
LIMITS AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS
HYDRAULIC DRAINAGE CALCULATIONS

THE FOLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED ON THE GRADING AND DRAINAGE PLAN AS SHOWN HEREON:

COMMENTS:

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF SURFACE FLOWS OF THE EXISTING AND PROPOSED QUANTITIES HAVE NO ADVERSE AFFECT ON DOWNSTREAM PROPERTIES.

THE PROJECT SITE, (1.) DOES NOT LIE WITHIN A FLOOD PLAIN, (2.) DOES IN LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO AINAGE EASEMENTS ON THE PROPERTY.

DRAINAGE CALCULATIONS:

REFERENCES:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

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TYPE OF SURFACE (DEVELOPED):

SITE AREA = 0.17 ACRES, (7,500.00 SQ. FT.).
PRESENT UNDEVELOPED "C" FACTOR = 0.40

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IMPERVIOUSNESS:

GENERAL

INFORMATION:

SOIL TYPE:

SOIL TYPE IS "TGB", (TIJERAS GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES).

SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, (SCS SHEET No. 32

CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), VOL. 2, DESIGN CRITERIA, CHAPTER 22, DRAINAGE, FLOOD CONTROL AND EROSION CONTROL.

STORM RUN-MEASURES

- BE PROTECTED AT ALL TIMES BY CONSTRUCTION PONDS, AND OTHER TEMPORARY GRADING AS RE-RUNOFF FROM LEAVING THE SITE AND ENTERING
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

IV.

PEAK

YOLUMB:

010

 $= 0.657 \times 0.77 = 0.51 \text{ cfs}$

EXISTING CONDITIONS: $V_{100} = 0.40 \text{ x} (2.5 / 12) \text{ x} 7,500.0$

 $= 0.657 \times 625.0$

410.6 cu.

cu.

DEVELOPED:

 $Q_{100} = 0.86 \times 5.28 \times 0.17$

= 0.77 cfs

UNDEVELOPED: $Q_{100} = 0.40 \text{ X}$

010

 $= 0.657 \times 0.36 = 0.24 \text{ cfs}$

5.28 x 0.17

= 0.36 cfs

 $I = R_6 \times 6.84 \times T_c$ -0.5 PEAK DISCHARGE: (Q = CIA)

RAINFALL

TIME OF CONCENTRATION, T_C = TEN (10) MINUTES FOR A SITE THIS SIZE.

INTENSITY, "I", (SEE REF. A., PLATE 22.2 D-2) $6.84 \times T_{C} = 0.51 = 0$

= 5.28 IN./HR.

RAINFALL, 100-YR., 6-HR., R6: (SEE REF. A., PLATE R6 = 2.5 INCHES.

22.2 D-1)

HARD SURFACED (ASPHALT/GRAVEL) = 0.10 AC. = 59% X (C=0.95) = 0.56
BUILDING ROOF AREA = 0.05 AC. = 29% X (C=0.90) = 0.26
LANDSCAPED AREA = 0.01 AC. = 06% X (C=0.25) = 0.02
UNDEVELOPED AREA = 0.01 AC. = 06% X (C=0.40) = 0.02

AVERAGE "WEIGHTED"

() () ()

0.86

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V₁₀₀ = 0.86 x (2.5

/12)

x 7,500.0

1,343.8 CU.

 $= 0.657 \times 1.343.8$

882.9

CU.

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.

2" ASIGNACTIC CONCRETE SURFACE

SURVEY

SCALE: |" =

PAVEMENT

SECTION

SRVEYDATE

TO READ ROLL NO.

8" SUBCINADE COMPACTED & APPROVAL SA 95% A.S.T.M. D-1557 SOIS APPROVA

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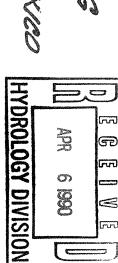


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