

DRAINAGE PLAN

PARCEL 14 MARTINEZTOWN NEIGHBORHOOD DEVELOPMENT PLAN
 ALBUQUERQUE, NEW MEXICO
 FLOOD MAP 28, BENCHMARK 5315, ELEV. 4967.34, SOIL TYPE "A"
 TOTAL AREA 26,567 SQ. FT. - 0.61 ACRES
 TOTAL AREA ROOFED OR PAVED: 6036 SQ. FT. - 23% - EXISTING
 AND 11,072 SQ. FT. - 42% PROPOSED
 FILE # J14/DGI APPROVED

HYDROLOGY

OFF-SITE FLOW: MINIMAL SHEET FLOW FROM LANDSCAPED 0.12 ACRES TO THE SOUTH. $C = .25 \times 2.15 \times 2.25 = 12 = 0.15$ C.F.S.
 V WITH $CN 61 = 0.013 \times 5225$ S.F. = 68 CU. FT.

ON-SITE FLOW: UNDEVELOPED CONDITION, $C = 0.40$, $I = 4.84$, $Q_{100} = 0.40 \times 4.84 \times 0.61 = 1.18$ C.F.S. V WITH $CN 80 = 0.00 \times 26,567 = 1595$ CU. FT.
 EXISTING CONDITION $C = .50 \times 40 = 0.20$
 $.17 \times 90 = 0.15$
 $.66 \times 95 = 0.06$
 $.27 \times 25 = 0.07$
 0.48

$Q_{100} = 0.48 \times 4.84 \times 0.61 = 1.42$ C.F.S. = 20% INCREASE
 V WITH $CN 70 = 0.03 \times 26562 = 850$ CU. FT. = 47% DECREASE
FINAL CONDITION $C = 0.07 \times 95 = 0.07$
 $0.34 \times 90 = 0.31$
 $0.45 \times 25 = 0.11$
 0.15 \times 40 = 0.61
 0.55

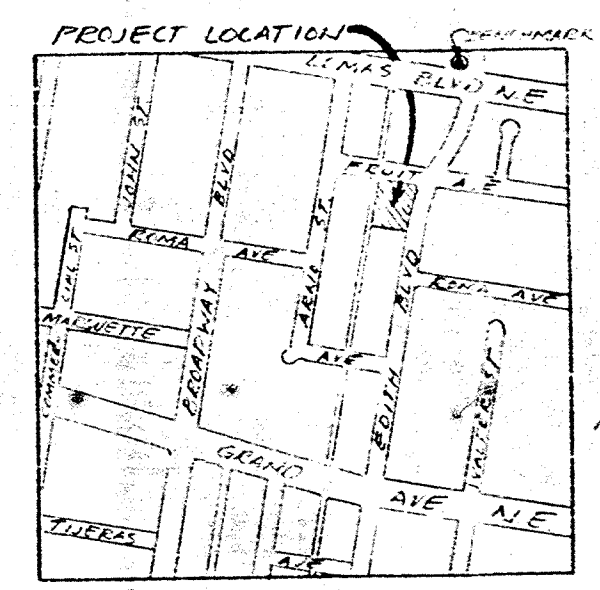
$Q_{100} = 0.55 \times 4.84 \times 0.61 = 1.62$ C.F.S. = 14% INCREASE
 V WITH $CN 75 = 0.04 \times 26562 = 1062$ CU. FT. = 33% DECREASE

RECOMMENDATION:

DUE TO MINIMAL SIZE OF DEVELOPMENT ON INFILL SITE, ACTUAL DECREASE OF RUN OFF VOLUME BECAUSE OF LANDSCAPING, AND ADEQUATE EXISTING STORM DRAIN FACILITIES, PERMISSION TO FREE DISCHARGE THROUGH EXISTING PAVED ALLEY IS REQUESTED.

EROSION CONTROL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE TO THE FOLLOWING
1. NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE THE SITE DURING CONSTRUCTION.
 2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING.
 3. ANY AND ALL SEDIMENTATION ORIGINATING ON THE SITE WHICH IS DEPOSITED WITHIN PUBLIC EIGHT-OF-WAY SHALL BE PROMPTLY AND COMPLETELY REMOVED BY THE CONTRACTOR.
 4. CONTROL OF SEDIMENT-LADEN FLOOD WATERS WILL BE CONTROLLED BY THE USE OF A 12" HIGH COMPACTED EARTH BERM AT THE DOWNSTREAM PERIMETERS OF THE PROPERTY.



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APPROVED
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 L. L. LITTLE
 HYDROLOGY SECTION

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