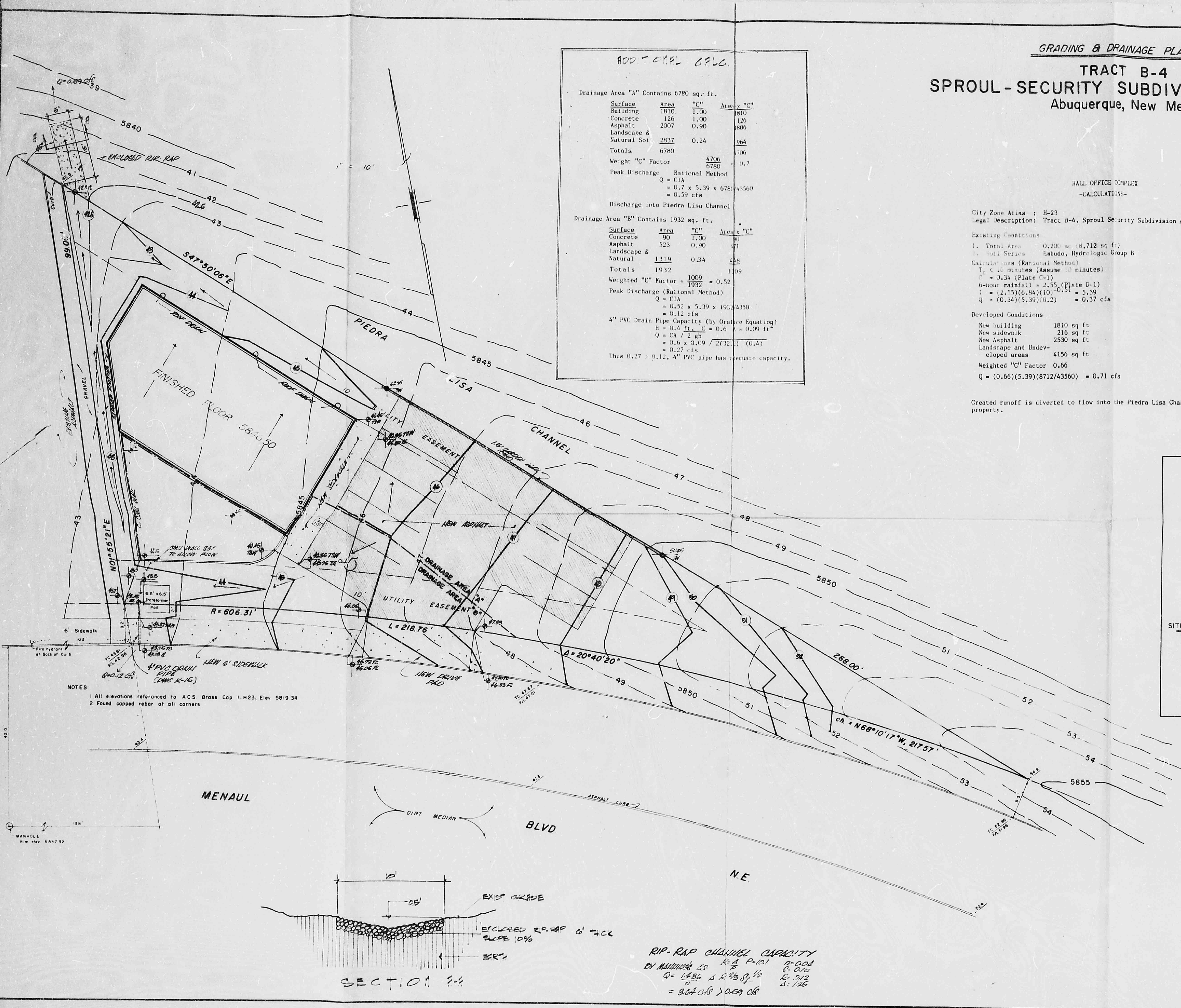




GRADING & DRAINAGE PLAN
TRACT B-4
SPROUL-SECURITY SUBDIVISION NO. 1
 Albuquerque, New Mexico

HALL OFFICE COMPLEX
 -CALCULATIONS-

City Zone Atlas : H-23
 Legal Description: Tract B-4, Sproul Security Subdivision # 1

Existing Conditions

- Total Area = 0.208 = 18,712 sq. ft.
- 2011 Series - Sanudo, Hydrologic Group B

Calculations (Rational Method)

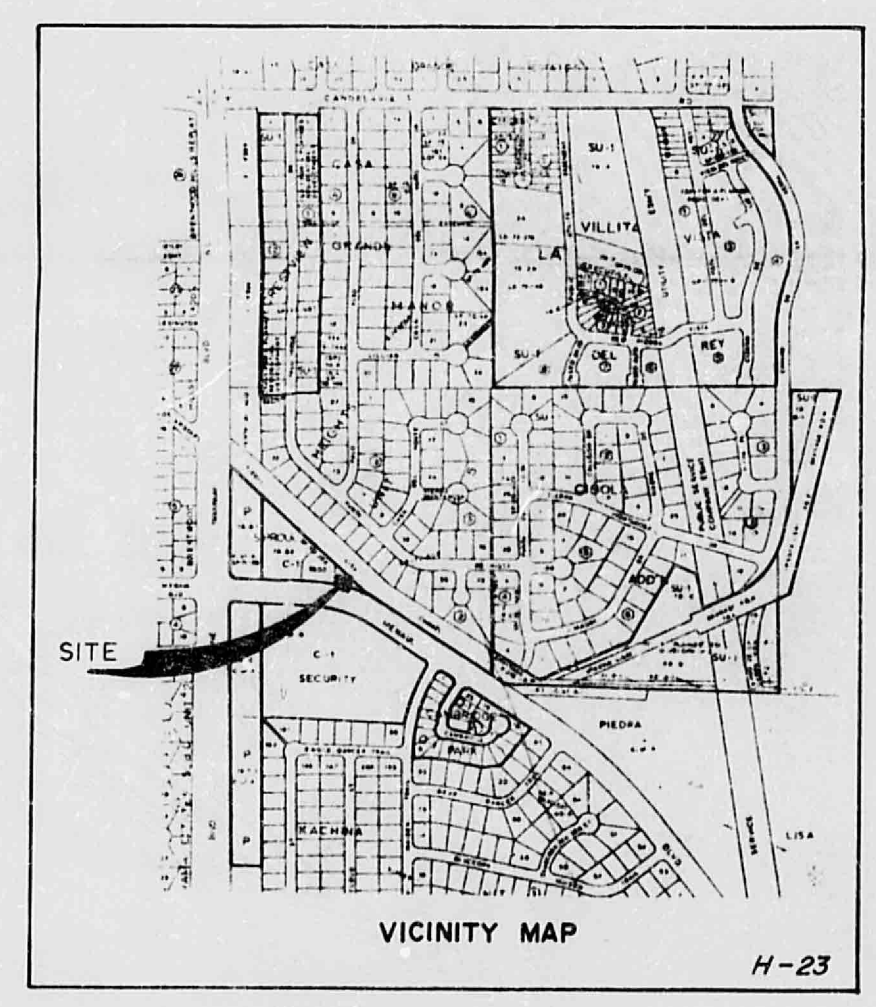
$T_p = 10 \text{ minutes (Assume 10 minutes)}$
 $C = 0.34 \text{ (Plate C-1)}$
 $6\text{-hour rainfall} = 2.55 \text{ (Plate D-1)}$
 $Q = (2.55)(0.34)(18,712) / (10 \times 60) = 5.39$
 $Q = (0.34)(5.39)(0.2) = 0.37 \text{ cfs}$

Developed Conditions

New building = 1810 sq. ft.
 New sidewalk = 216 sq. ft.
 New Asphalt = 2530 sq. ft.
 Landscape and undeveloped areas = 4156 sq. ft.

Weighted "C" Factor = 0.66
 $Q = (0.66)(5.39)(18,712 / 43560) = 0.71 \text{ cfs}$

Created runoff is diverted to flow into the Piedra Lisa Channel adjacent to the property.



HALL SURVEYING CO.
 2625 Pennsylvania Ave. N.E., Suite 350
 Albuquerque, New Mexico 87110
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 FB 83-2 12/19/83

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