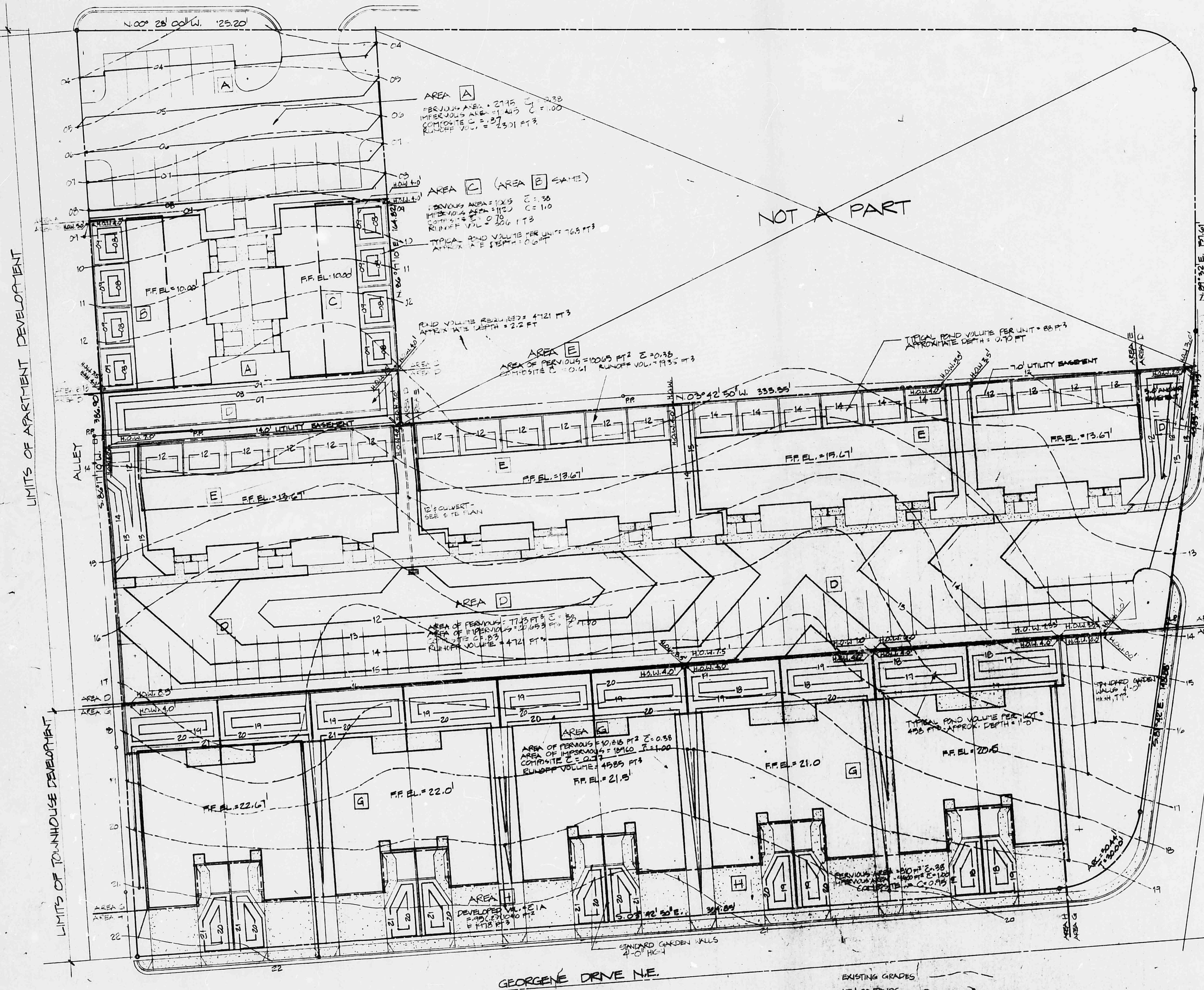






CHELWOOD PARK BLVD. N.E.



# RUNOFF FLOW

TOTAL AREA = 2.58 ACRES  
 $T_c = 12 \text{ MIN.}$   
 $I = 5.11$

## HISTORIC RUNOFF FLOW

$Q = 0.11(1.38)(2.58) = 0.01 \text{ CFS}$

## DEVELOPED RUNOFF

ONLY AREAS A + H CONTRIBUTE  
 $T_c = 5 \text{ MIN. INITIAL} + 1.25 \text{ CHANNEL} = 6.25$   
 USE 10 MIN.

$I = 5.4$   
 $AREA = 1.54 \text{ AC}$   
 $Z = .95 (1040/23650) + .87 (13240/23650) = .91$

$Q = .91(5.4)(.54) = 2.64 \text{ CFS}$   
 HISTORIC FLOW IS GREATER THAN DEVELOPED

## RUNOFF VOLUME:

### HISTORICAL VOLUME:

$C = .35$   
 $I = 2.4 \text{ IN.}$   
 $V = 2.1 \text{ IN.}$   
 $V = .35 (2.4/12)(2.58 \text{ AC})(43536 \text{ C})$   
 $= 2541 \text{ FT}^3$

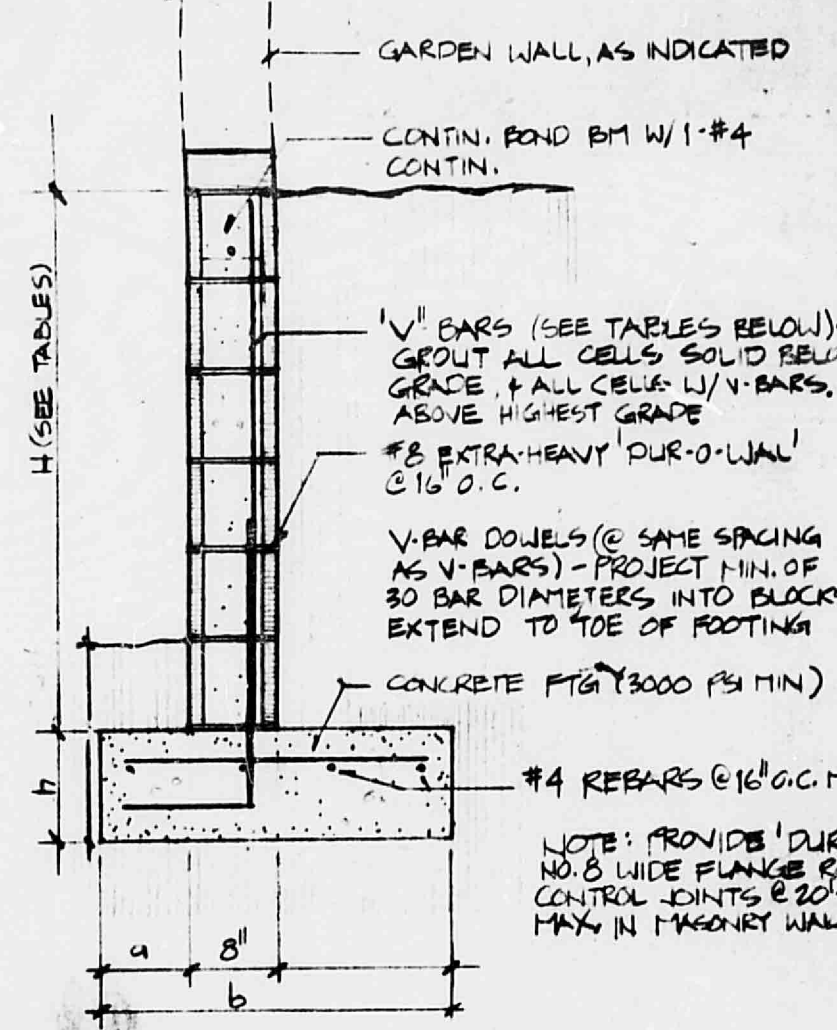
### DEVELOPED VOLUME:

ONLY AREAS A + H CONTRIBUTE TO VOLUME

OFF OF SITE  
 VOLUME OF A = 2301 FT<sup>3</sup>  
 VOLUME OF H = 1978 FT<sup>3</sup>  
 TOTAL VOLUME = 4279 FT<sup>3</sup>

DEVELOPED VOLUME IS LESS THAN HISTORICAL

RUNOFF DATA COMPUTED BY  
 MEURER, SERAFINI & MEURER, INC.  
 2601 WYOMING BLVD. N.E. SUITE F  
 ALBUQUERQUE, N.M. 87219-1936  
 (ENGINEER STAMP IS FOR  
 DRAINAGE CALCULATIONS ONLY)



## SCHEDULE OF BAR & FOOTING SIZES

| H     | h   | a   | b     | X-BARS                      | V-BARS |
|-------|-----|-----|-------|-----------------------------|--------|
| 2'-0" | 9"  | 0"  | 1'-4" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 2'-0" | 9"  | 4"  | 1'-8" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 3'-4" | 9"  | 8"  | 2'-4" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 4'-0" | 9"  | 10" | 2'-4" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 4'-0" | 10" | 12" | 3'-2" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 5'-0" | 10" | 14" | 3'-2" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 5'-4" | 12" | 16" | 4'-4" | #4 @ 48" O.C. #4 @ 48" O.C. |        |
| 6'-0" | 12" | 18" | 4'-4" | #4 @ 48" O.C. #4 @ 48" O.C. |        |

## TYPICAL RETAINING WALL

APARTMENT AND TOWNHOUSE DEVELOPMENT FOR CREST CONSTRUCTION  
 PHOENIX AVE @ GEORGENE DRIVE, ALBUQUERQUE, NEW MEXICO  
 DRAINAGE AND GRADING PLAN



RUPLEY & ASSOCIATES  
 ARCHITECT - PLANNER - LANDSCAPE ARCHITECT  
 (505) 266-2777  
 305 SAN PEDRO N.E.  
 ALBUQUERQUE, NEW MEXICO 87108



COMMISSION NUMBER  
 7816

6/27/18

SHEET NUMBER

C-2  
 OF 7