



EXISTING GRADE
NEW GRADE
2ND ELEVATION - EXISTENT
DIRECTION OF DRAINAGE FLOW
SEE SHEET 1 FOR LANDSCAPING & DIMENSIONS.



NOTES

- Legal: Bk 124, Lot 5A, Snowheights Addition, Albuquerque, NM (0.20 Acres)
- Surveyor: Walker Surveying Company, 2/82.
- Bench Mark: 10-321, Elevation 5466.20.
TBM, SE. 1.C. Elevation 5472.04.

Design Criteria

In a pre-design meeting with Mr. Jim Fink, City Hydrology Department, the following criteria was established: The site will have to pond the increased runoff rate/volume, with a controlled release rate of 0.5 to the adjoining street, due to a flooding problem downstream of the site at the intersection of Eubank and Indian School Rd. NE.

On-site Undeveloped Rate/Volume
 $(0.40)(5.4)(0.20) = 0.4$ cfs
 $(2.5/12)(0.4)(8500) = 708$ ft.³

On-site Developed Rate/Volume without controlled release
 $(0.61)(5.4)(0.20) = 0.7$ cfs
 $(2.5/12)(0.61)(8500) = 1080$ ft.³

Actual Area draining to pond area located in parking area = 6914 ft.², due to side and front landscaped areas being self-ponding. Volume draining to pond area =
 $(2.5/12)(0.66)(6914) = 951$ ft.³

Maximum allowable outflow = $Q_5 = (0.40)(2.43)(0.16) = 0.2$ cfs
 Maximum volume stored while outflowing 0.2 cfs = 419 ft.³ at peak time 36 minutes (programmable calculator).

Maximum head available at pipe inlet = 1.0'. Pipe size required to control flow at 0.2 cfs = 4.5 in. (0 = CA2gh). Use 1 - 2 1/2" dia. per pipe.

Capacity of pond located in south portion of parking area:

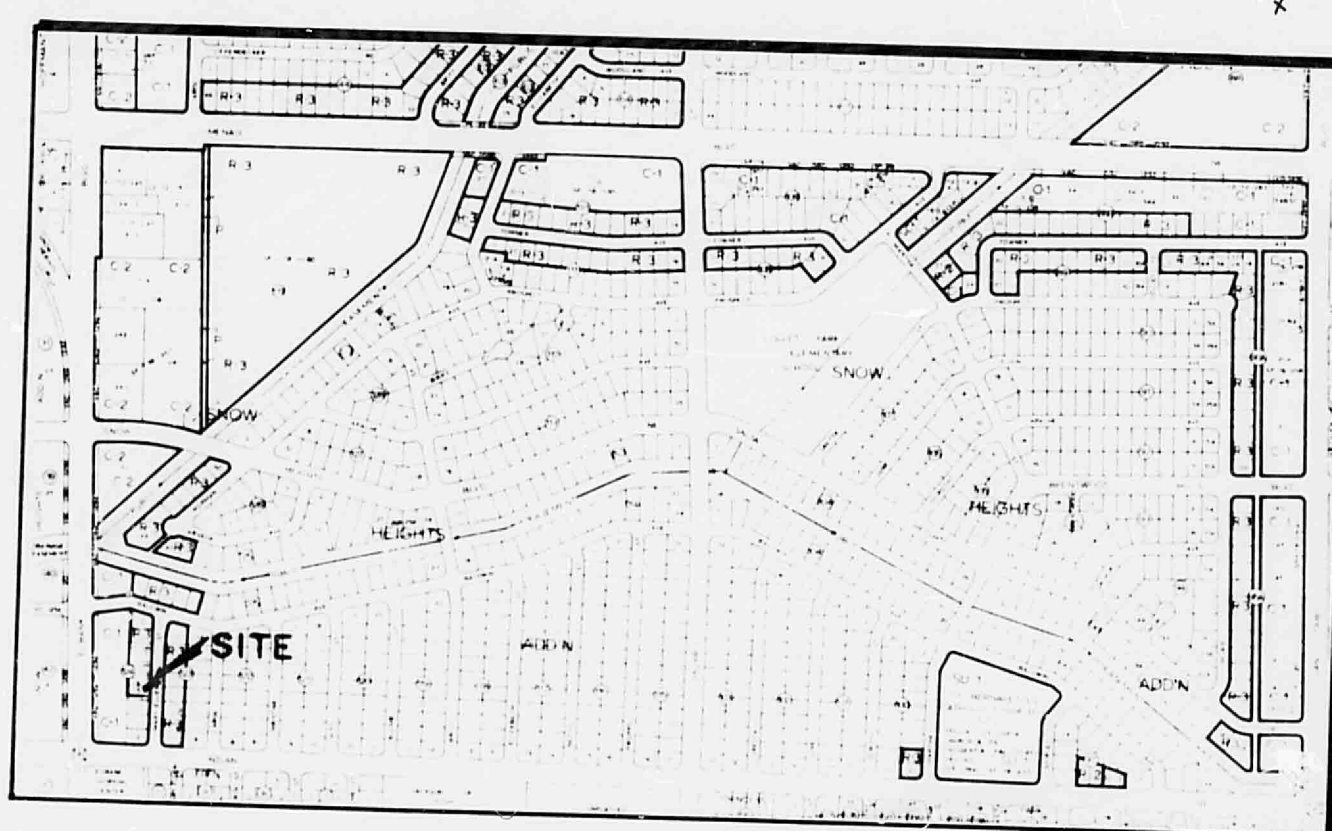
Elev.	Area	Avg.	Elev. Diff.	Volume
71.6	0	389	0.4	155
72.0	777			
72.3	1130	954	0.3	286

441 ft.³ total capacity > 419 ft.³
 peak storage = OK

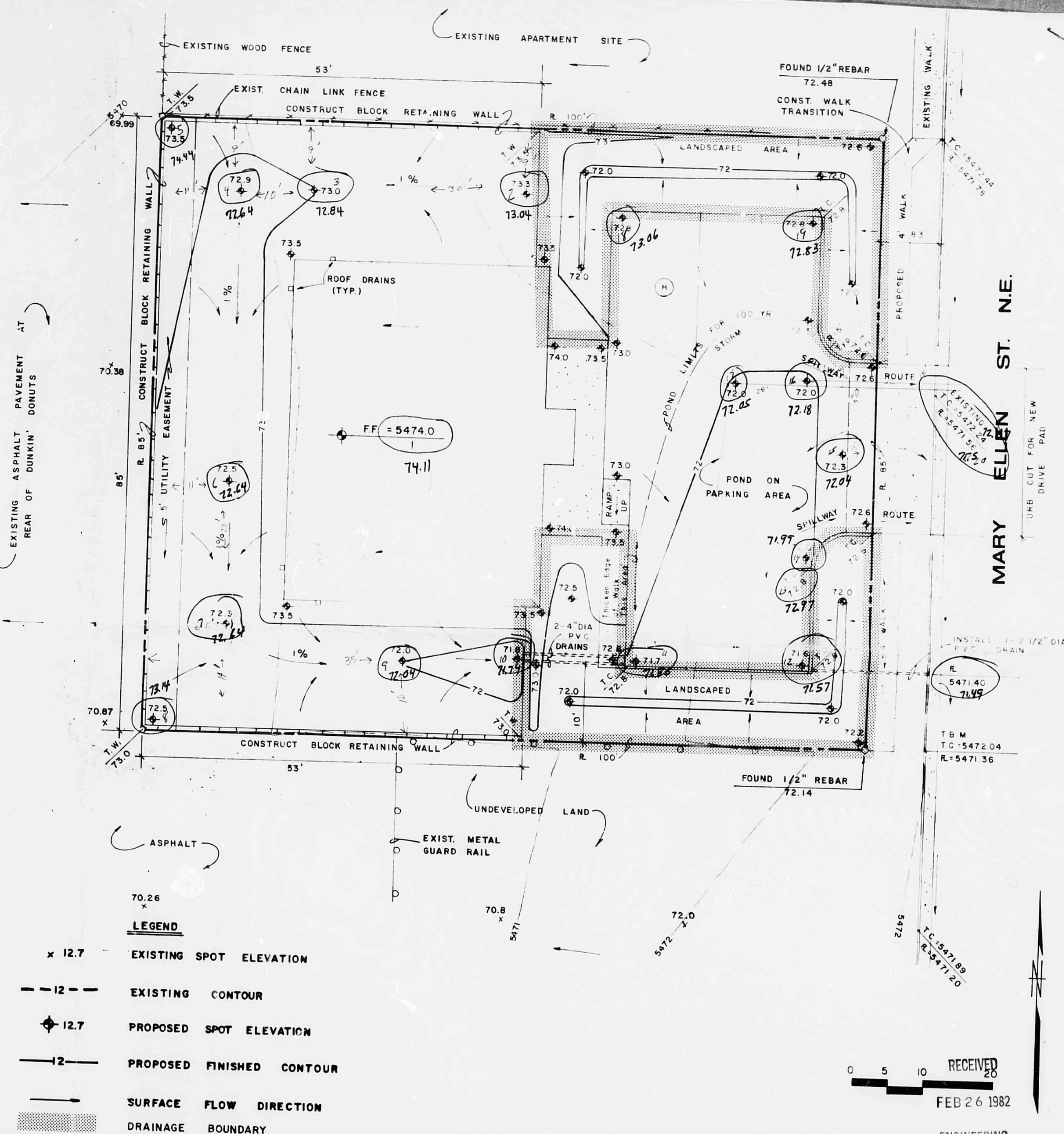
Offsite flows

Mary Ellen St. intercepts all flows from the east. The adjacent sites to the north and south of the site drain to the west.

Special Order #19 Documents to be submitted to City Design.



VICINITY MAP - H-21



LEGEND

- x 12.7 EXISTING SPOT ELEVATION
- - - 12 - - EXISTING CONTOUR
- ◆ 12.7 PROPOSED SPOT ELEVATION
- - - 12 - - PROPOSED FINISHED CONTOUR
- SURFACE FLOW DIRECTION
- DRAINAGE BOUNDARY

0 5 10 RECEIVED
 FEB 26 1982
 ENGINEERING



GRADING/DRAINAGE PLAN for 1815 MARY ELLEN ST. NE.

ALBUQUERQUE
 NEW MEXICO
 H-21 D7