



HYDROLOGY

EXISTING CONDITIONS

THE EXISTING SITE IS NOT WITHIN A DESIGNATED FLOOD ZONE. THE ENTIRE SITE DRAINS TO THE NORTH TOWARD COORS BLVD AND QUAKER HEIGHTS PLACE. SOME ONSITE PONDING DOES OCCUR PRIOR TO DRAINAGE REACHING THE POINTS OF DISCHARGE.

PROPOSED CONDITIONS

THE PROPOSED SITE DRAINAGE IMPROVEMENTS WILL INCLUDE SURFACE FLOW AND STORM DRAIN CONVEYANCE TO PERIMETER "FIRST FLUSH" WATER QUALITY PONDS.

THE STORM WATER RUNOFF WILL BE DIRECTED TO A STORM DRAINAGE FACILITY LOCATED TO THE NORTHWEST THAT CONVEY THE FLOW TO THE LADERA POND 16B FACILITY. SEE SEPARATE ANALYSIS OF LADERA POND FACILITY.

REQUIRED FIRST FLUSH VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING FIRST FLUSH RUNOFF RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA * (0.44-0.10)/12 IN CUBIC FEET.

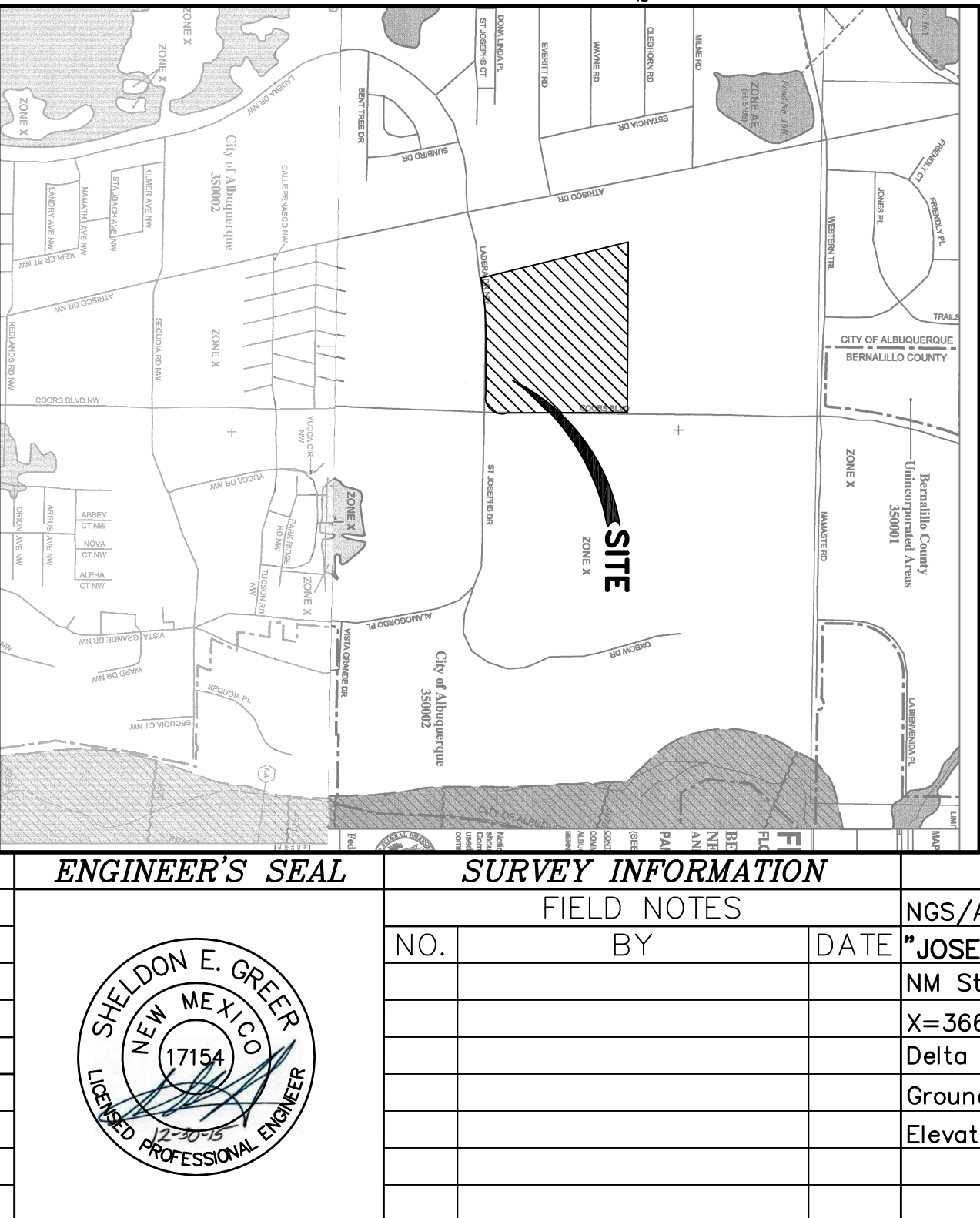
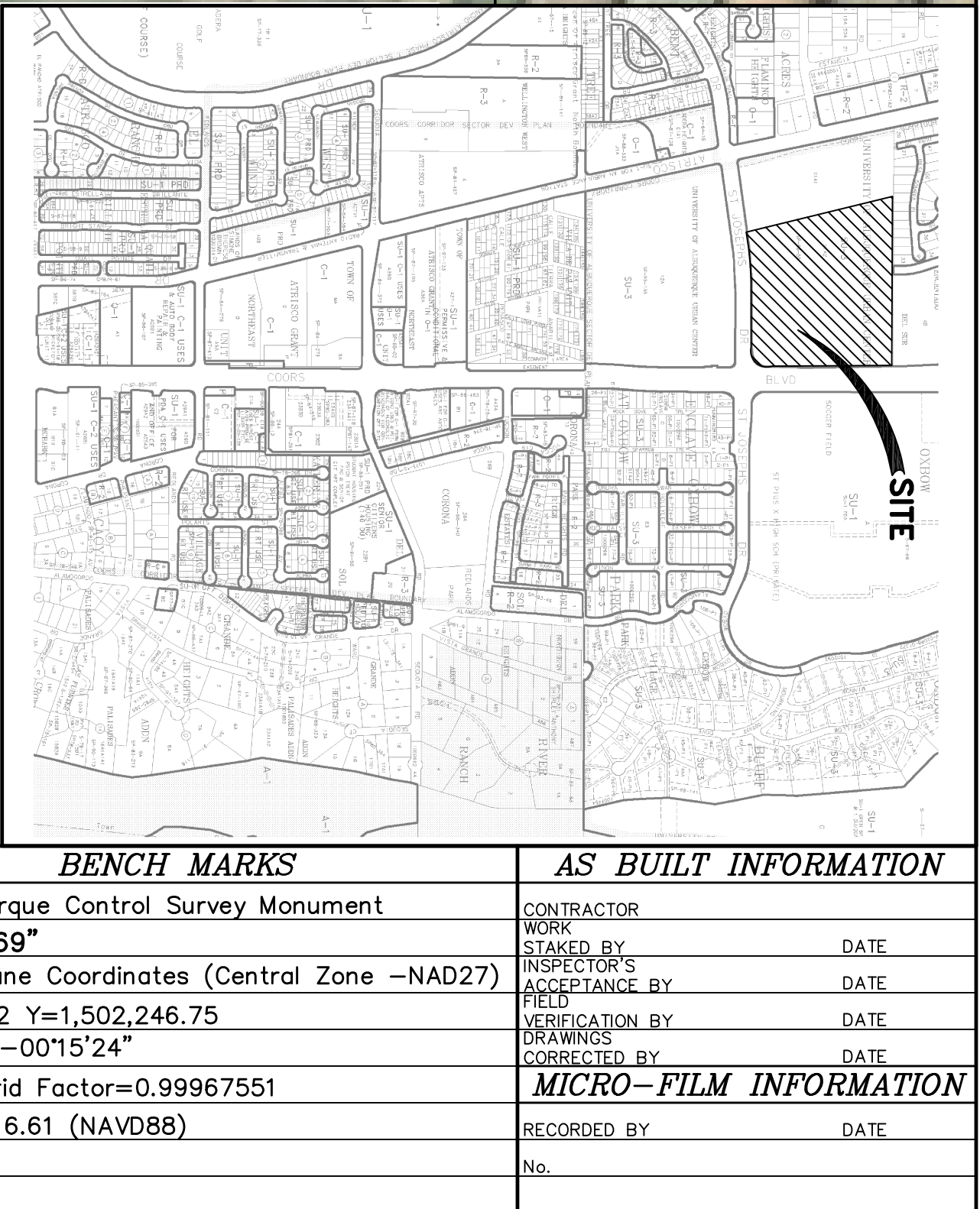
IMPERVIOUS AREA = 831,900 SQ.FT.

REQUIRED VOLUME = 831,900 * (0.44-0.10)/12 = 23,571 CU.FT.

VOLUME PROVIDED = 27,670 CU.FT.

HYDROLOGIC DATA – PROPOSED

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ₁₀ (cfs)	VOLUME (cuft)
		A	B	C	D			
D-1	13.36	0	10	0	90	413	56.23	2.04
D-2	1.26	0	10	0	90	414	5.20	0.19
D-3	1.39	0	10	0	90	414	5.76	0.21
D-4	0.82	0	10	0	90	415	3.40	0.12
D-5	0.99	0	10	0	90	415	4.09	0.15
D-6	0.93	0	10	0	90	423	3.93	0.14
D-7	1.51	0	10	0	90	414	6.23	0.23
D-8	0.94	0	10	0	90	415	3.88	0.14



CONCEPTUAL GRADING AND DRAINAGE PLAN			MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION		
CITY OF ALBUQUERQUE			COORS PAVILION		
MONTH/DA/YEAR			USER DEPARTMENT		
LATEST DESIGN UPDATE					
CITY PROJECT NO.			ZONE MAP NO.		
G-11			SHEET		
1 OF 1					