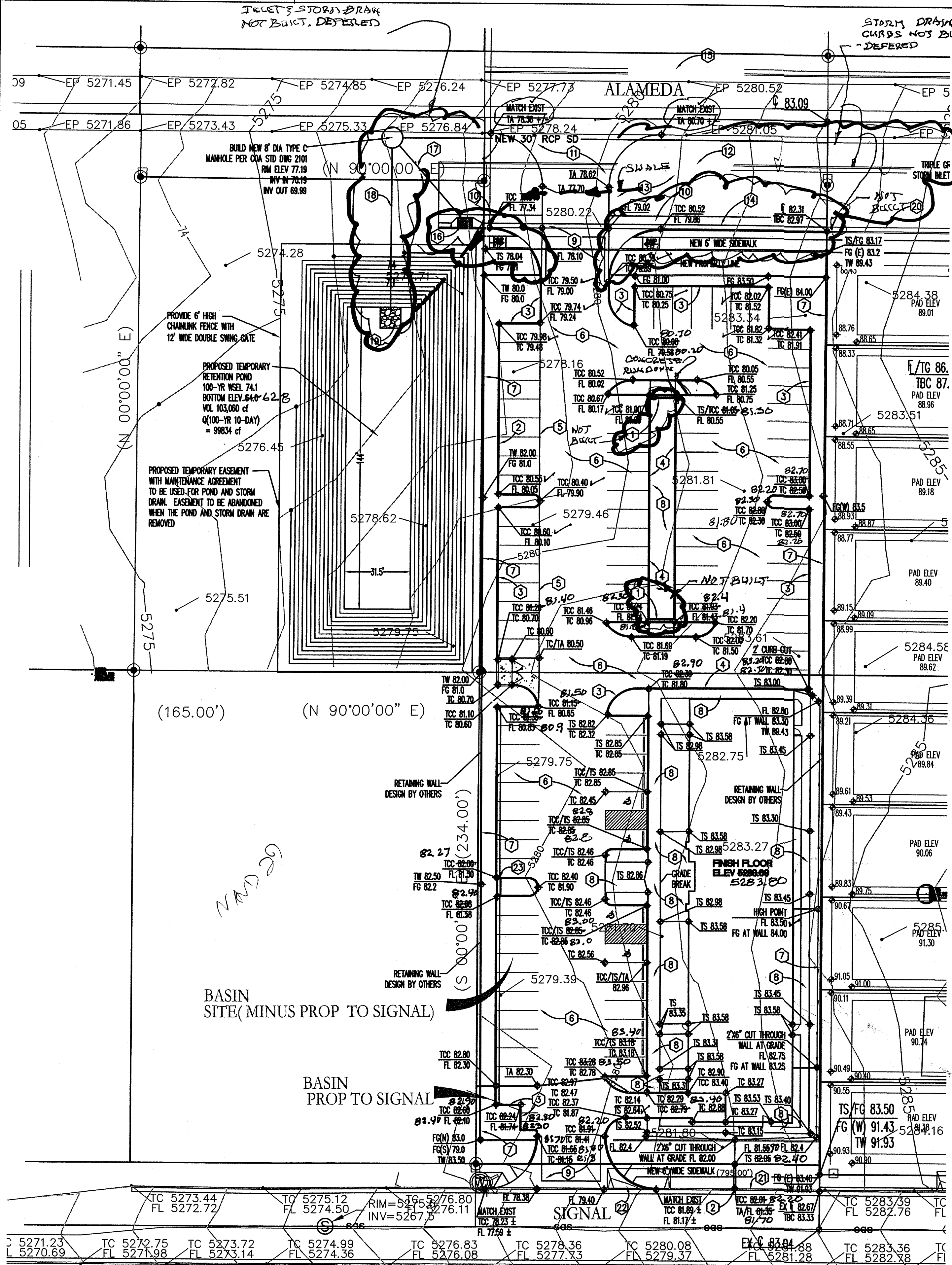


TICKET 5 STORM DRAIN
NOT BUILT, DEFERRED

STORM DRAIN &
CURBS NOT BUILT
DEFERRED



Legal Description

LOTS 12 AND 21, TRACT A, BLOCK 29, UNIT B, NORTH ALBUQUERQUE ACRES.

GENERAL NOTES

1. REFER TO SHEET C-01 FOR GENERAL INFORMATION.
2. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.

KEYED NOTES

1. BUILD 12" SIDEWALK CULVERT PER COA STD DWG 2236. ADJUST TO 6" HEIGHT.
2. BUILD 12" SIDEWALK CULVERT PER COA STD DWG 2236.
3. BUILD CONCRETE HEADER CURB PER DETAIL 1 OR DEPRESSED CURB AND GUTTER PER DETAIL 2 AT ARCHITECT'S CHOICE.
4. BUILD SIDEWALK ABUTTING CURB PER DETAIL 8.
5. CONSTRUCT SWALE IN CONCRETE PAVEMENT. S = 0.79%.
6. BUILD CONCRETE PAVEMENT PER ARCHITECT'S DESIGN.
7. BUILD RETAINING WALL TO ELEVATIONS GIVEN. DESIGN BY OTHERS.
8. BUILD CONCRETE HEADER CURB PER DETAIL 1 OR DEPRESSED CURB AND GUTTER PER DETAIL 2 AT ARCHITECT'S CHOICE.
9. BUILD 32' DRIVEPAD PER COA STD DWG 2426.
10. BUILD 4' WIDE STRIP OF TEMPORARY ASPHALT PAVEMENT TO PREVENT EROSION.
11. BUILD TEMPORARY ASPHALT PAVEMENT CONNECTION TO EXISTING EDGE OF PAVEMENT.
12. DEFERRED MEDIAN CURB AND GUTTER.
13. DEFERRED ARTERIAL PAVEMENT
14. BUILD STANDARD CURB AND GUTTER PER COA STD DWG 2415A.
15. FUTURE MEDIAN CURB. NOT PART OF THIS PROJECT.
16. BUILD TYPE 'A' STORM INLET PER COA STD DWG 2201. GRATE ELEV 76.07. IN OUT 72.00.
17. BUILD 24" CL III RCP STORM DRAIN.
18. BUILD 30" CL III RCP TEMPORARY STORM DRAIN OUTFALL.
19. INSTALL 10' X 10' RIPRAP EROSION PAD. D50 = 9" THICKNESS 18" OVER FILTER FABRIC.
20. FUTURE STANDARD CURB AND GUTTER NOT PART OF THIS PROJECT.
21. EXISTING STANDARD CURB AND GUTTER TO REMAIN.
22. REMOVE EXISTING DRIVEPAD. INFILL WITH STD CURB AND GUTTER PER COA STD DWG 2415A.
23. CONSTRUCT 2' WIDE CONCRETE RUNDOWN INLINE WITH CURB FACE PER DETAIL 3.

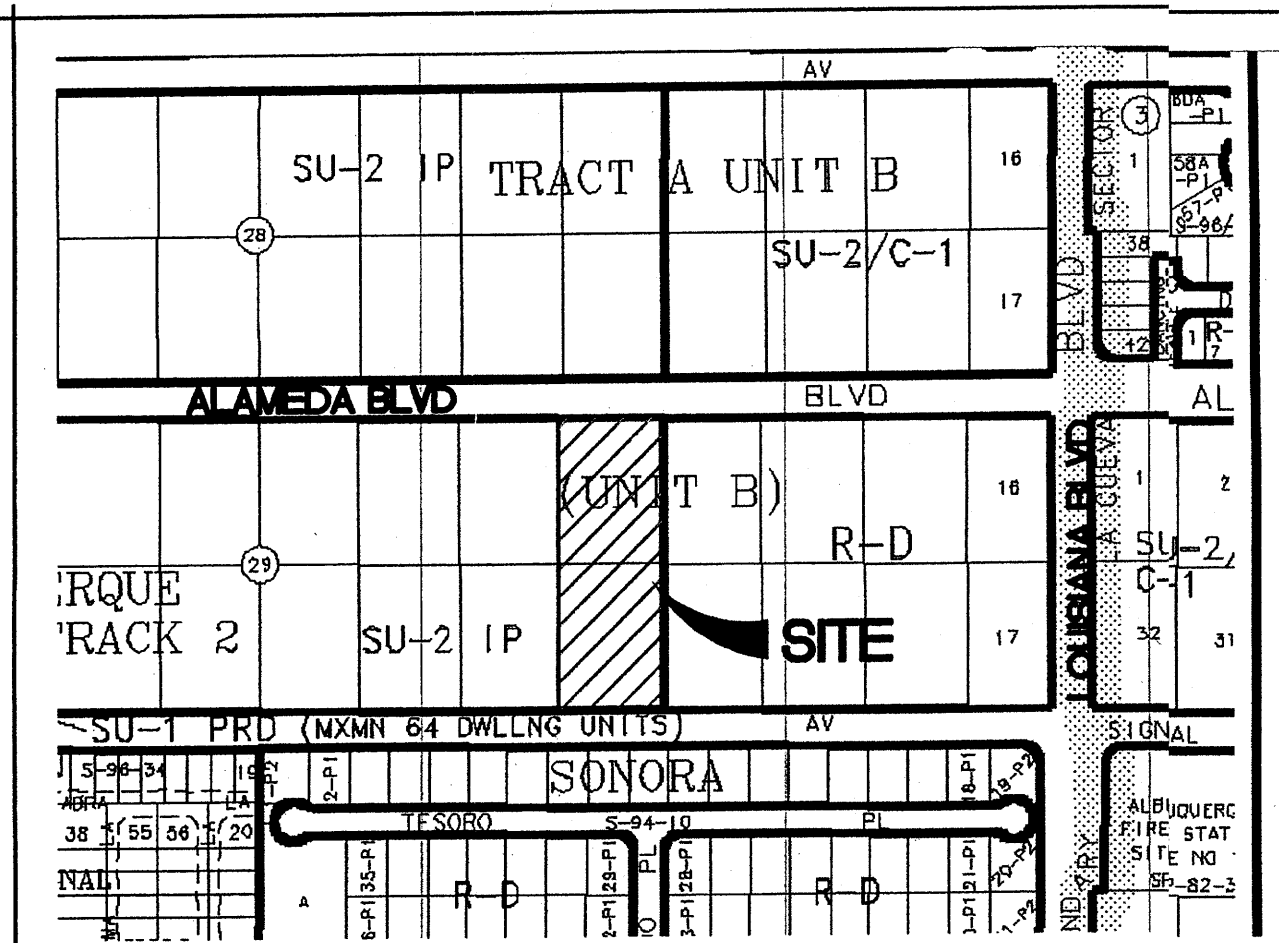
DRAINAGE CERTIFICATION

I, Larry D. Read, NMPE 10998, of the firm Larry Read & Associates, Inc., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 8-17-2007. The record information edited onto the original design document has been obtained by Will Plattner, Jr., NMPS 14271, of the firm Cartesian Survey, Inc. I further certify that I have personally visited the project site on 1/17/2007 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certificate of Occupancy.

Exceptions: The storm drain, storm inlet, curb and gutter, pavement, and sidewalk on Alameda have been deferred to a later date to be constructed with the remaining portion of Alameda Ave. in the near future.

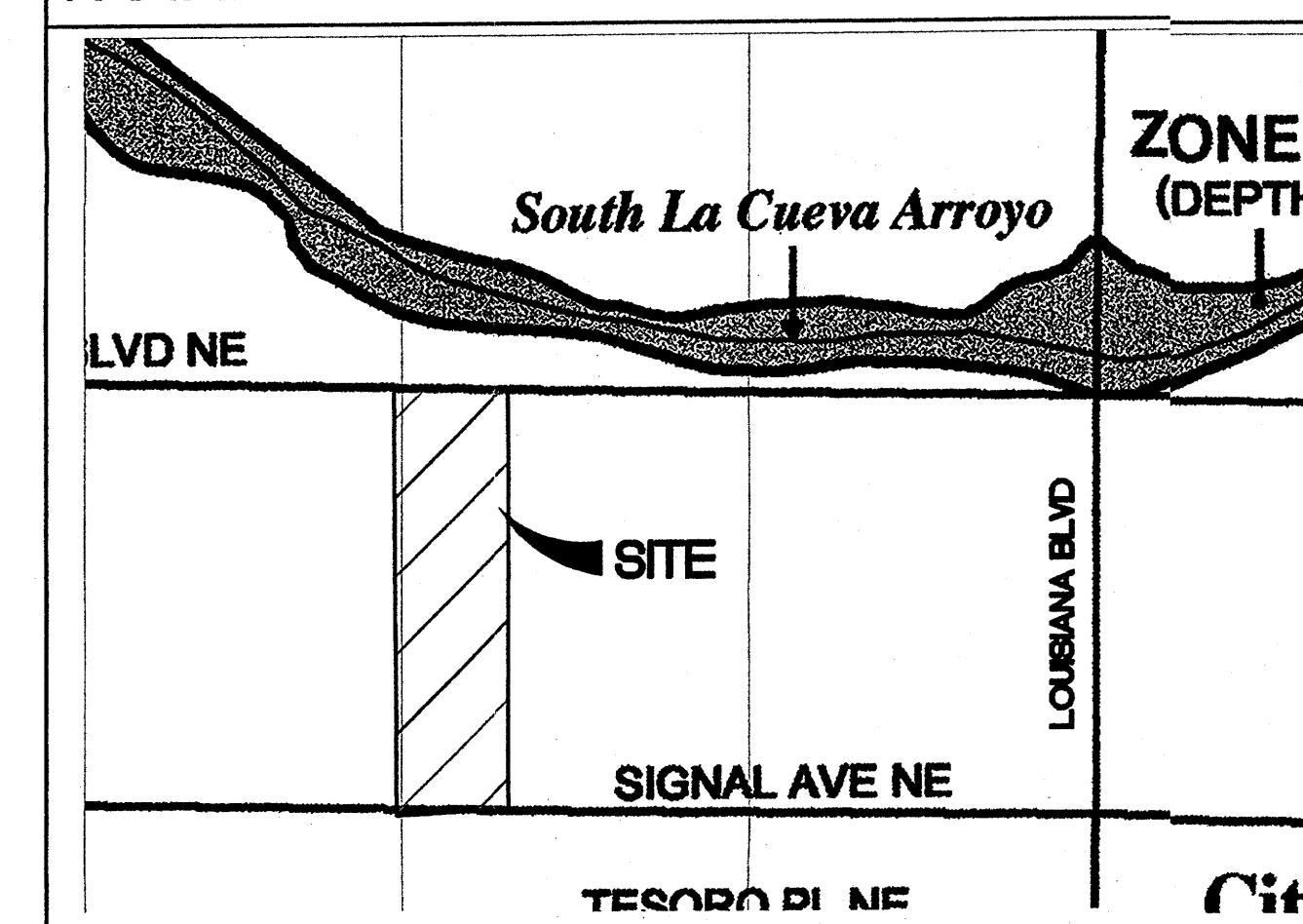
The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the Grading and Drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

✓ - As-built spot elevation
matches design spot
elevation



VICINITY MAP

C-18-Z

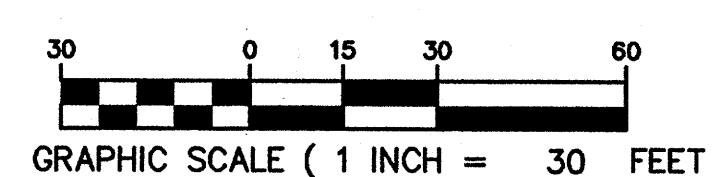
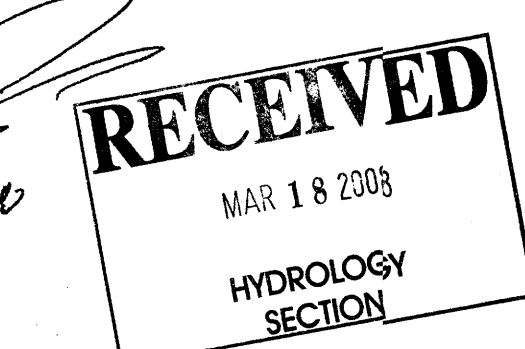
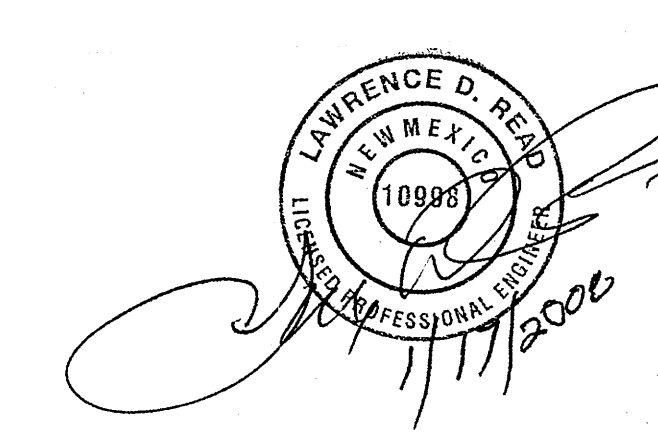
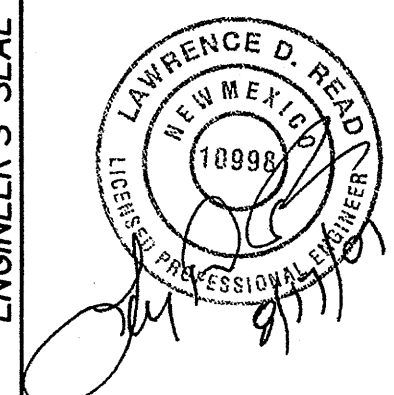


FLOODPLAIN PANEL 137-F

AS BUILT INFORMATION				BENCH MARKS			
CONTRACTOR	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
WORKS BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
INSPECTED BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
ACCEPTANCE BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
VERIFICATION BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
DRAWINGS	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
RECORDED BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
NO.	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE

SURVEY INFORMATION				ENGINEER'S SEAL			
FIELD NOTES	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
BY	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
NO.	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
1	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
CARTESIAN SURVEYS	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
P. O. BOX 44414	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
RIO RANCHO, NM 87114	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
PHONE: (505) 896-3050	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
FAX: (505) 891-0244	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE

REVISIONS				DESIGN			
NO.	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
1	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
2	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
3	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
4	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
5	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
6	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
7	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
8	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
9	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
10	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
11	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
12	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
13	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
14	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
15	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
16	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
17	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
18	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
19	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
20	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
21	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
22	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
23	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
24	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
25	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
26	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
27	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
28	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
29	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
30	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
31	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
32	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
33	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
34	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
35	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
36	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
37	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
38	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
39	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
40	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
41	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
42	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
43	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
44	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
45	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
46	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
47	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
48	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
49	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
50	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
51	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
52	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
53	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
54	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
55	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
56	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
57	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
58	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
59	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
60	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
61	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
62	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
63	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
64	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
65	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
66	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
67	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
68	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
69	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
70	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
71	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
72	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
73	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
74	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
75	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
76	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
77	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
78	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
79	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
80	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
81	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
82	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
83	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
84	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
85	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
86	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
87	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
88	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
89	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
90	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
91	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
92	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
93	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
94	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
95	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
96	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
97	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
98	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
99	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
100	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE



LARRY READ & ASSOCIATES, Inc
Civil Engineers
2430 Midtown Place NE Suite C
Albuquerque, New Mexico 87107
(505) 237-8421

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: DESERT HILLS JEHOVAH'S WITNESSES GRADING AND DRAINAGE PLAN			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE	MO./DAY/YR.
PROJECT NO.	MAP NO. C-18	SHEET 2	OF 3

PARTIAL POND RECOVERY RMCI CONSTRUCTION YARD

LOT 11, BLOCK 29 UNIT B, NAA GRADING AND DRAINAGE

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.89 ACRE PARCEL LOCATED ON THE SOUTH SIDE OF ALAMEDA BOULEVARD NE AND WEST OF LOUISIANA BOULEVARD NE AS SEEN ON THE ATTACHED VICINITY MAP. THE SITE IS CURRENTLY A STORMWATER RETENTION POND SERVING THE DEVELOPED KINGDOM HALL CHURCH ON LOTS 12 AND 21, PORTIONS OF THE UNDEVELOPED LOTS 13 THROUGH 20, PORTIONS OF LOUISIANA BLVD. AND ALAMEDA BLVD. AS SHOWN ON THE DRAINAGE BASIN MAP SHEET 2 OF 3.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0137 H, DATED AUGUST 16, 2012 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

PRECIPITATION

THE 100-YR 10-DAY DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 3 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE 6-HOUR AND 10-DAY PRECIPITATION, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

EXISTING DRAINAGE

AS DESCRIBED ABOVE, THIS PARCEL IS CURRENTLY USED AS A 103,000 CUBIC FOOT STORMWATER RETENTION POND. AS SHOWN ON THE DRAINAGE BASIN MAP, SHEET 2 OF 3, IT COLLECTS DEVELOPED STORMWATER FROM THE CHURCH TO THE EAST AND SEVERAL UNDEVELOPED LOTS TO THE EAST. THE POND WAS ORIGINALLY SIZED TO CONTAIN THE RUNOFF FROM THE CHURCH AS WELL AS ABOUT 8 ACRES ON LOTS 12 AND 21 THAT ARE THE SITE OF A PROPOSED RESIDENTIAL SUBDIVISION.

DEVELOPED CONDITION

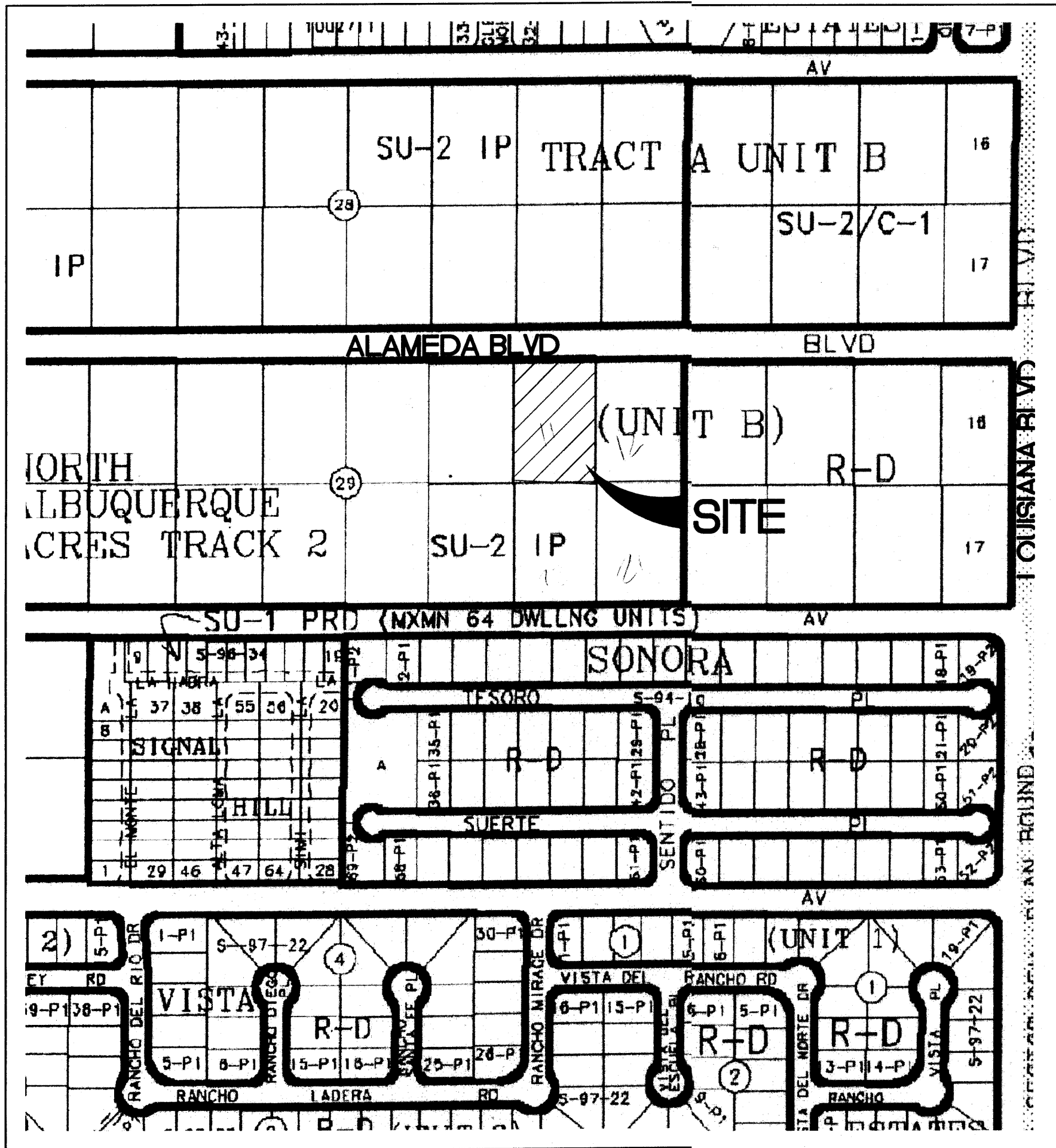
THE OWNER OF THIS PARCEL IS PROPOSING TO REDUCE THE SIZE OF THE POND AND ALLOW THE BALANCE OF THE PARCEL TO BE USED AS A CONSTRUCTION YARD FOR THE ALAMEDA BLVD. CONSTRUCTION.

SINCE THE MAJORITY OF THE STORMWATER RUNOFF THAT WAS PLANNED TO BE CONTAINED IN THIS POND WAS FROM A RESIDENTIAL DEVELOPMENT ON LOTS 13 THROUGH 20 THAT HAS NOT DEVELOPED AT THIS TIME, THE POND IS OVERSIZED FOR THE CURRENT CONTRIBUTION. WE ARE PROPOSING TO REDUCE THE POND TO CONTAIN RUNOFF FROM THE DEVELOPED CHURCH SITE TO THE EAST OF THIS LOT, THE EXISTING PORTIONS OF LOTS 13 THROUGH 20 IN THEIR EXISTING CONDITION AS WELL AS PORTIONS OF LOUISIANA BLVD. AND ALAMEDA BLVD. THAT CURRENTLY CONTRIBUTE TO THE POND. ONCE THE STORM DRAIN IN ALAMEDA IS COMPLETED (CURRENTLY PLANNED FOR 4 TO 7-MONTH FROM NOW) THE CONTRIBUTION TO THE POND WILL BE INTERCEPTED BY THE STORM DRAIN.

TABLE 1

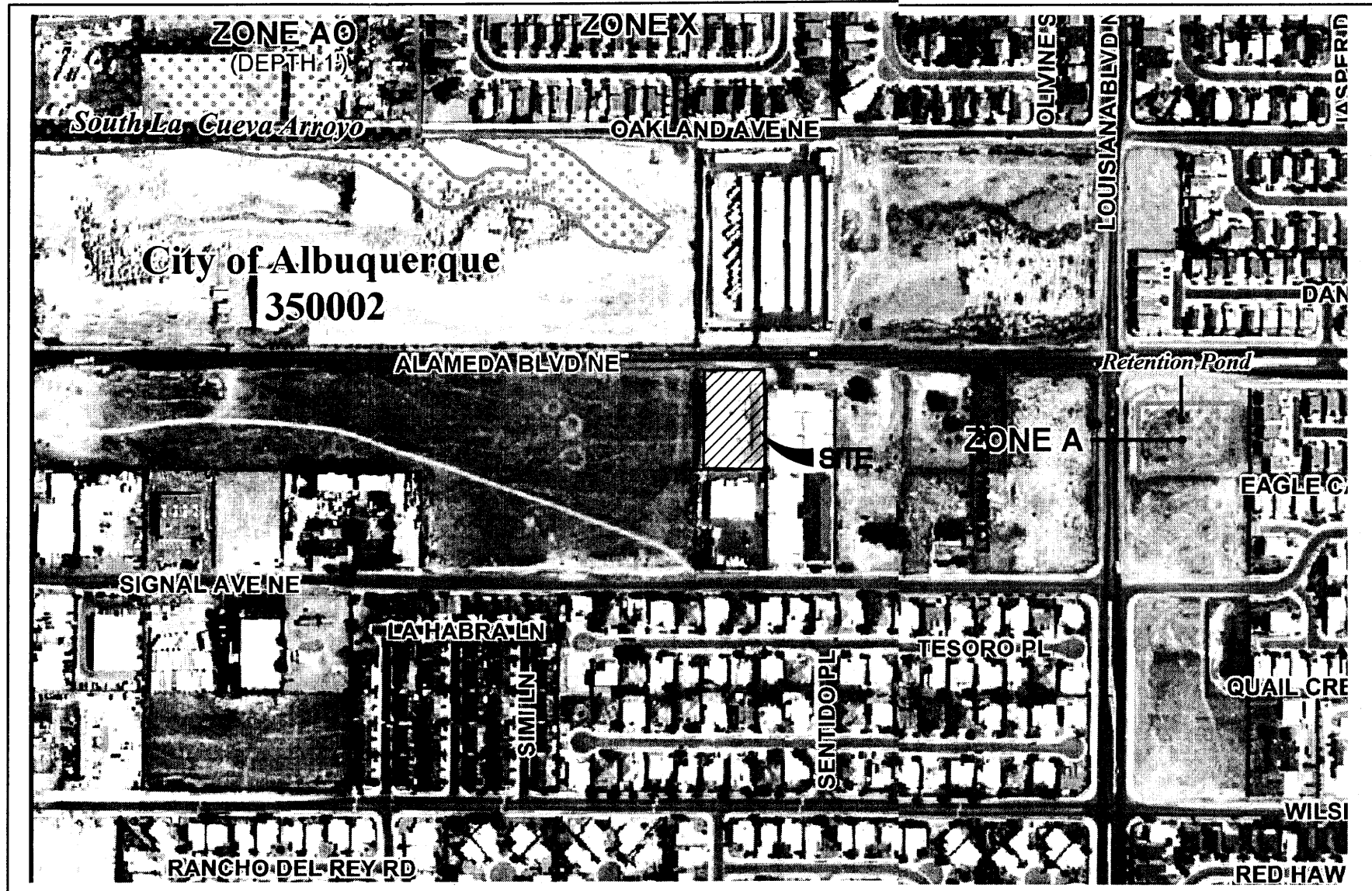
100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10 day) (acre-ft)	V(10 day) (cu-ft)	Q (cfs)
		A (%)	B (%)	C (%)	D (%)						
EXISTING CONDITIONS											
BASIN A	6.0400	0.00	89.00	0.00	11.00	1.08	0.54	23,644	0.67	29,191	17.31
BASIN B	1.5900	0.00	13.00	13.00	74.00	2.03	0.27	11,738	0.49	21,561	7.16
BASIN C	0.1100	0.00	0.00	100.00	0.00	1.29	0.01	515	0.01	515	0.38
BASIN D	0.8300	0.00	0.00	100.00	0.00	1.29	0.09	3,887	0.09	3,887	2.86
BASIN E	0.1100	0.00	22.00	78.00	0.00	1.21	0.01	483	0.01	483	0.36
TOTAL RUNOFF TO POND BASINS A, B, C, and D							0.91	39,784	1.27	55,154	27.71
RUNOFF TO ALAMEDA BASIN E							0.01	483	0.01	483	0.36
EXCESS PRECIP.		0.66	0.92	1.29	2.36	E ₁ (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q ₁₀ (cfs)					
WEIGHTED E (in) = (E _A)(%A) + (E _B)(%B) + (E _C)(%C) + (E _D)(%D)											
V _{6-hr} (acre-ft) = (WEIGHTED E)(AREA)/12											
V _{10day} (acre-ft) = V _{6-hr} + (A _C)(P _{10day} - P _{6-hr})/12											
Q (cfs) = (Q _{10A})(A _A) + (Q _{10B})(A _B) + (Q _{10C})(A _C) + (Q _{10D})(A _D)											
ZONE = 3											
P _{6-hr} (in.) = 2.60											
P _{24-hr} (in.) = 3.10											
P _{100day} (in.) = 4.90											

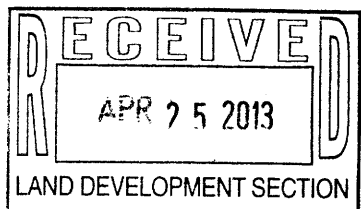


VICINITY MAP

C-18-Z



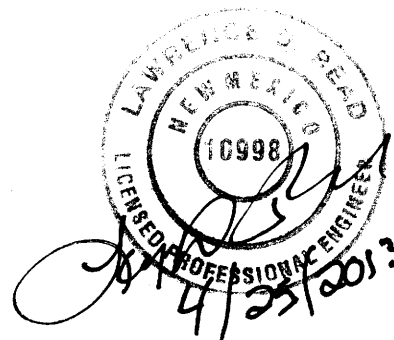
FLOODPLAIN PANEL 137-H



COVER PAGE

RMCI CONSTRUCTION YARD
and PARTIAL POND RECOVERY

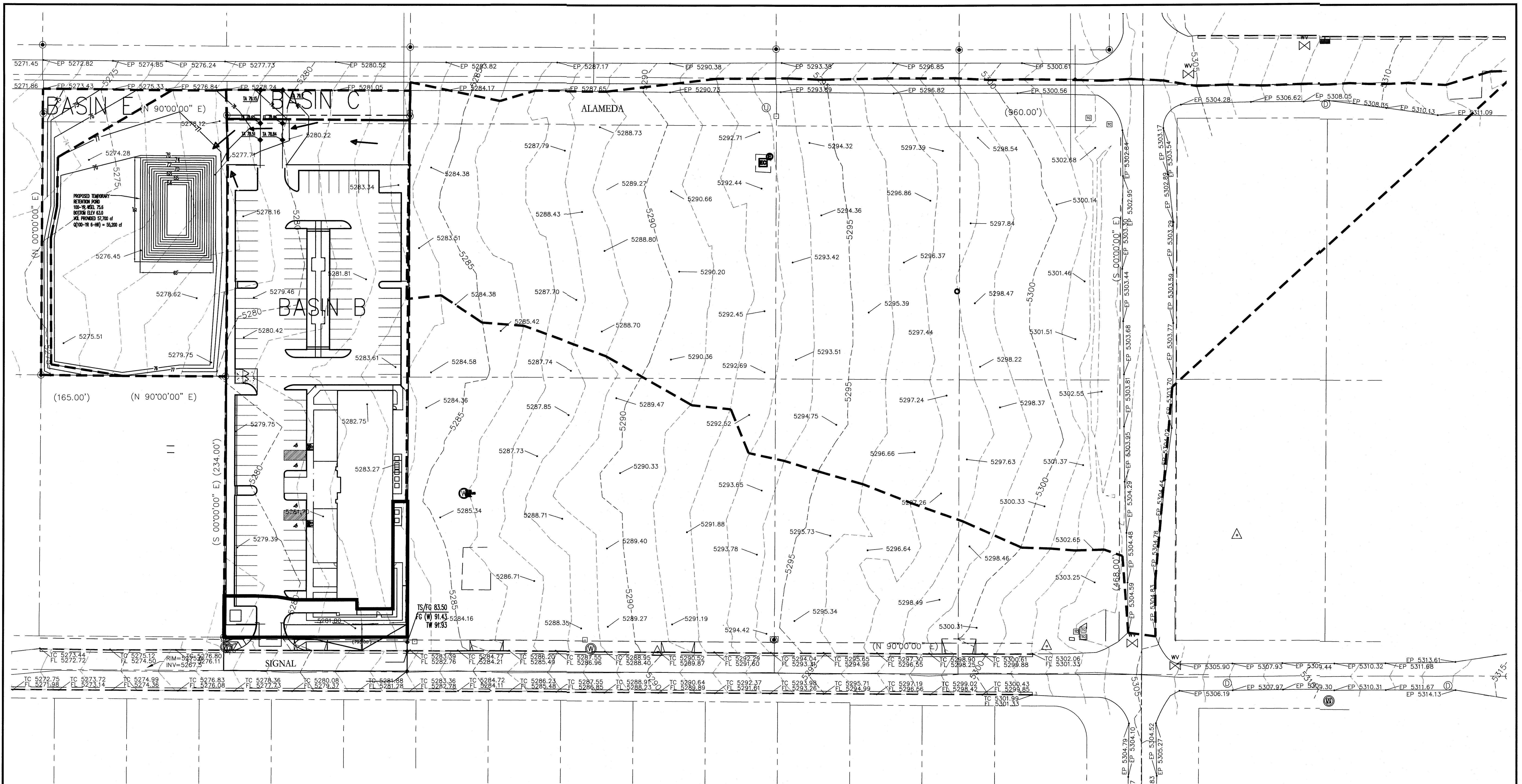
ALBUQUERQUE, NEW MEXICO



LARRY READ & ASSOCIATES, Inc.
Civil Engineers
2430 Midtown Place, N.E., suite C
Albuquerque, New Mexico 87107
(505) 237-8421

FILE NAME: CHURCH 4/25/2013

SHEET 1 OF 3

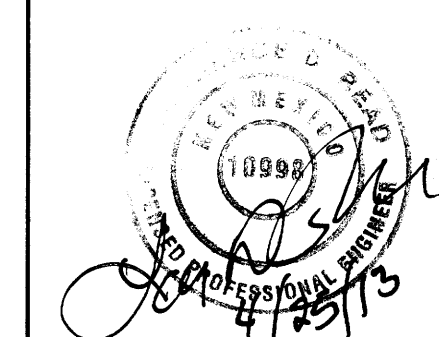


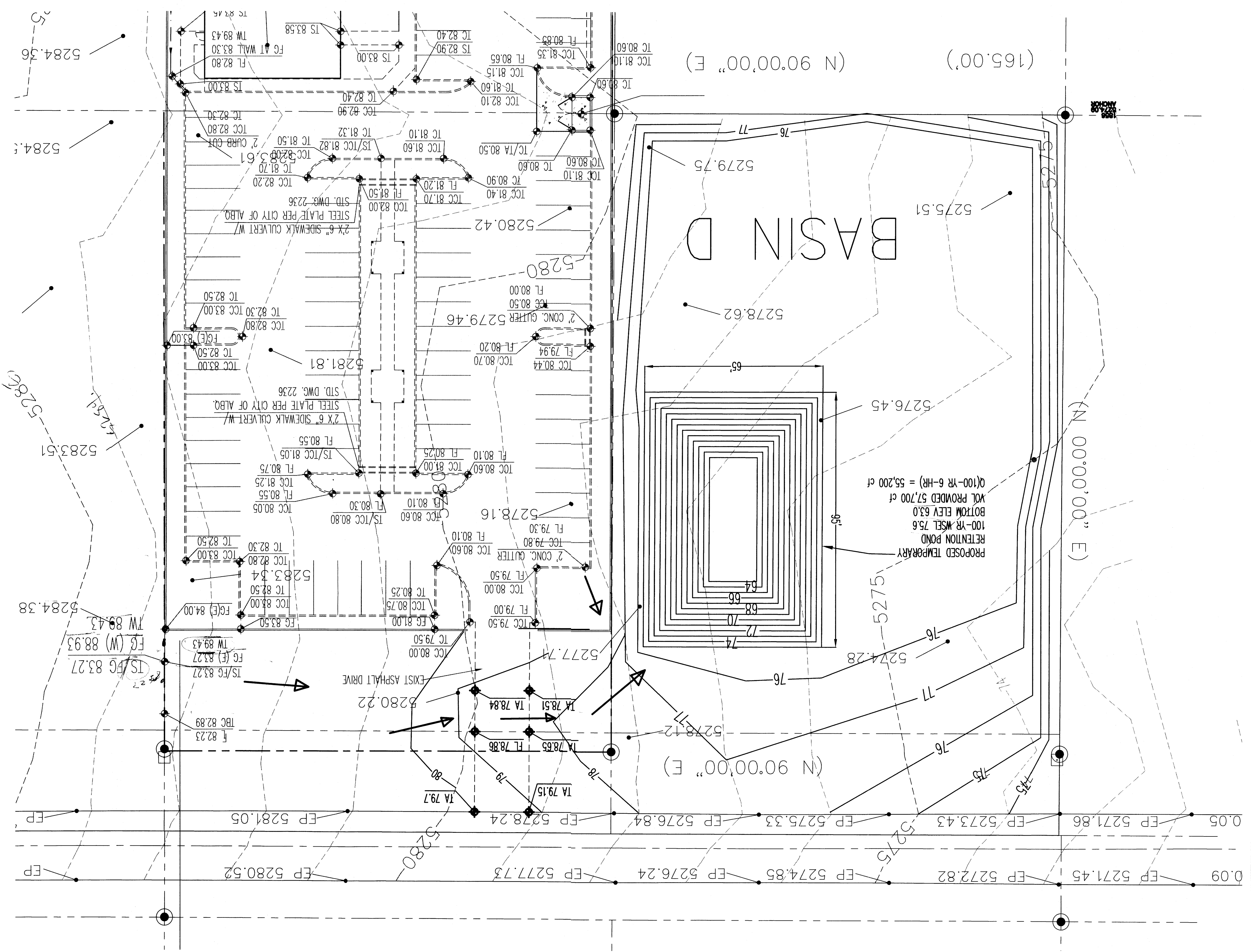
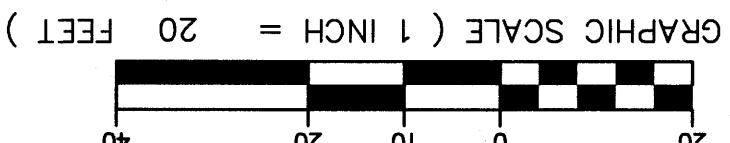
DRAINAGE BASIN MAP

**RMCI CONSTRUCTION YARD
and PARTIAL POND RECOVERY**

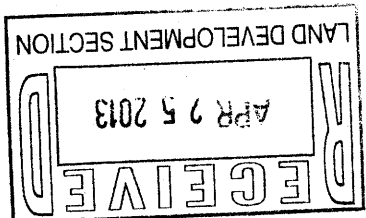
ALBUQUERQUE, NEW MEXICO

LARRY READ & ASSOCIATES, Inc.
Civil Engineers
2430 Midtown Place, N.E., Suite C
Albuquerque, New Mexico 87107
(505) 237-8421





GRADING PLAN
RMCI CONSTRUCTION YARD
and PARTIAL POND RECOVERY
ALBUQUERQUE, NEW MEXICO



LARRY READ & ASSOCIATES, Inc.
Civil Engineers
2430 Midtown Place, N.E., suite C
Albuquerque, New Mexico 87107
(505) 237-8421

FILE NAME: CHURCH 4/25/2013

SHEET 3 OF 3

PARTIAL POND RECOVERY and RELOCATION

LOT 11, BLOCK 29 TRACT A, UNIT B, NAA GRADING AND DRAINAGE

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.89 ACRE PARCEL LOCATED ON THE SOUTH SIDE OF ALAMEDA BOULEVARD NE AND WEST OF LOUISIANA BOULEVARD NE AS SEEN ON THE ATTACHED VICINITY MAP. THE SITE IS CURRENTLY A STORMWATER RETENTION POND SERVING THE DEVELOPED KINGDOM HALL CHURCH ON LOTS 12 AND 21.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0137 H, DATED AUGUST 16, 2012 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

PRECIPITATION

THE 100-YR 10-DAY DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 3 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE 6-HOUR AND 10-DAY PRECIPITATION, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

EXISTING DRAINAGE

AS DESCRIBED ABOVE, THIS PARCEL IS CURRENTLY USED AS A CONSTRUCTION YARD WITH A 58,000 CUBIC

YRM DRAIN CONSTRUCTED AS PART OF THE STREET CONSTRUCTION.

DEVELOPED CONDITION

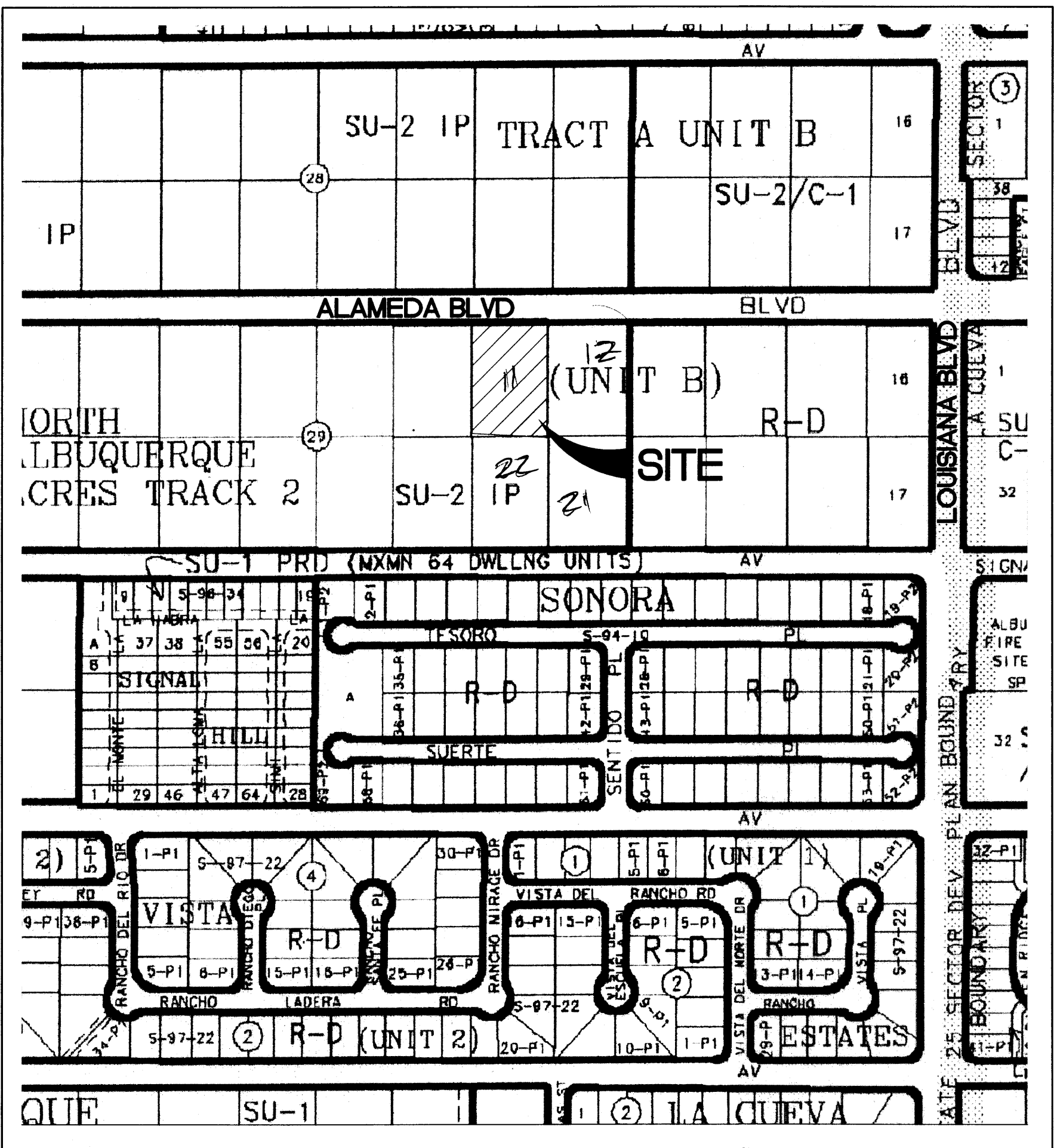
THE OWNER OF THIS PARCEL IS PROPOSING TO REDUCE THE SIZE OF THE RETENTION AND RELOCATE IT TO THE LOWER CORNER OF THIS SITE SINCE RUNOFF FROM THE CHURCH SITE TO THE EAST HAS BEEN CUTOFF.

WE ARE PROPOSING TO REDUCE THE POND TO CONTAIN RUNOFF FROM LOT 22 ONLY SINCE THERE IS NOT LONGER ANY OFFSITE CONTRIBUTING AREA. CONSTRUCTION OF THE PROPOSED POND WILL HELP REDUCE SEDIMENT TRANSFER INTO THE ALAMEDA BLVD. STREET SECTION AS WELL AS RUNOFF FROM THE SITE.

TABLE 1

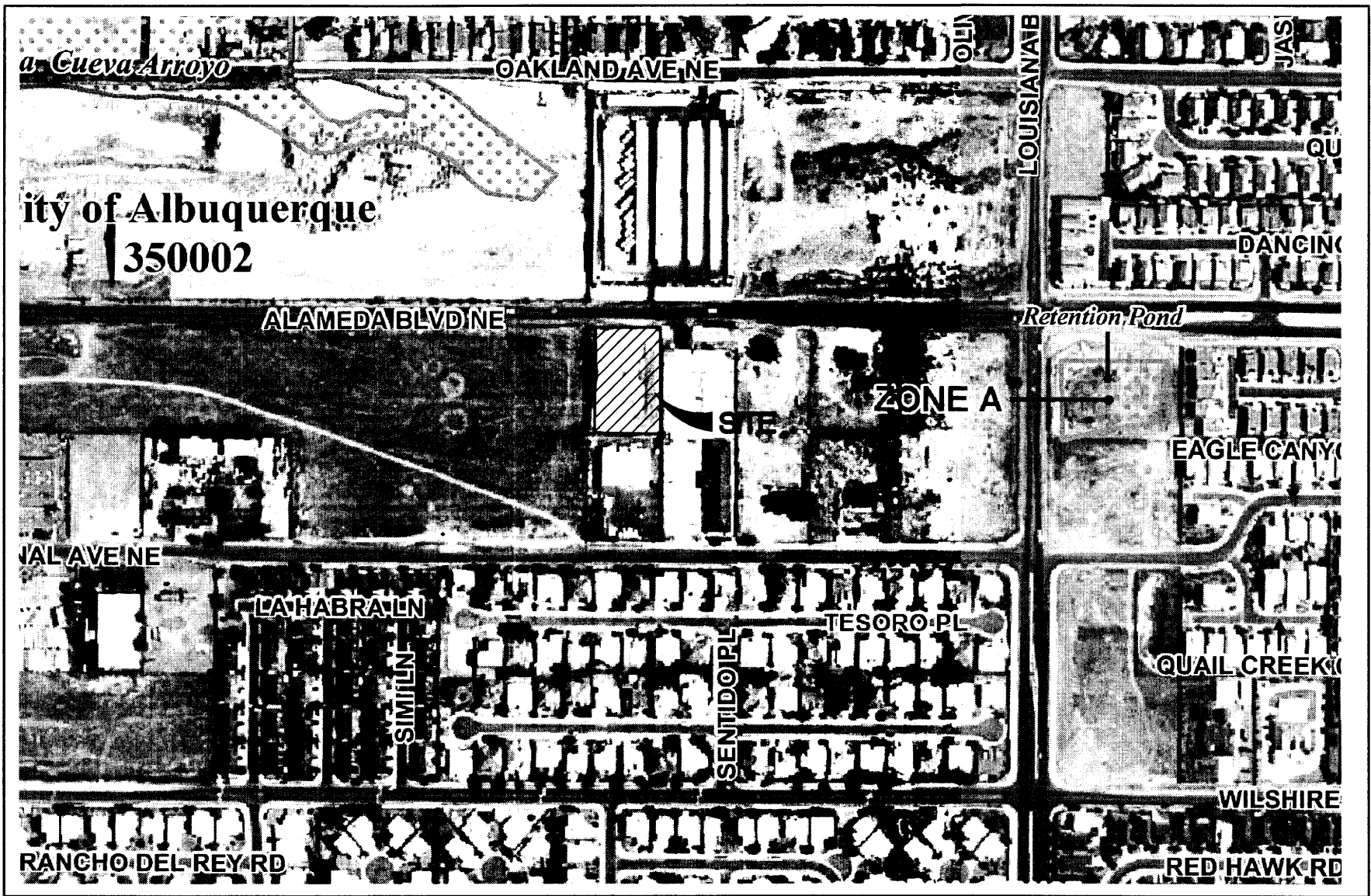
100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10 day) (acre-ft)	V(10 day) (cu-ft)	Q (cfs)
		A (%)	B (%)	C (%)	D (%)	E (in)					
		EXISTING CONDITIONS									
SITE	0.8900	0.00	0.00	100.00	0.00	1.29	0.10	4.168	0.10	4.168	3.07
EXCESS PRECIP		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Qn (cfs)					
WEIGHTED E (in) = (Ea)(%A) + (Eb)(%B) + (Ec)(%C) + (Ed)(%D)							P6-hr (in.) = 2.60		ZONE = 3		
V6-hr (acre-ft) = (WEIGHTED E)(AREA)/12							P24-hr (in.) = 3.10				
V10day (acre-ft) = V6-hr + (Aa)(P10day - P6-hr)/12							P10day (in.) = 4.90				
Q (cfs) = (Qn)(Aa) + (Qnb)(Ab) + (Qnc)(Ac) + (Qnd)(Ad)											



VICINITY MAP

C-18-Z



FLOODPLAIN PANEL 137-H

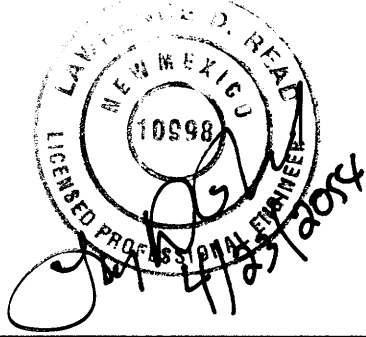
COVER PAGE

LOT 11 PARTIAL POND RECOVERY and RELOCATION

ALBUQUERQUE, NEW MEXICO

LARRY READ & ASSOCIATES, Inc.
Civil Engineers

2430 Midtown Place, N.E., suite C
Albuquerque, New Mexico 87107
(505) 237-8421



FILE NAME: LOT 11 POND 3 APRIL 2014 SHEET 1 OF 2

