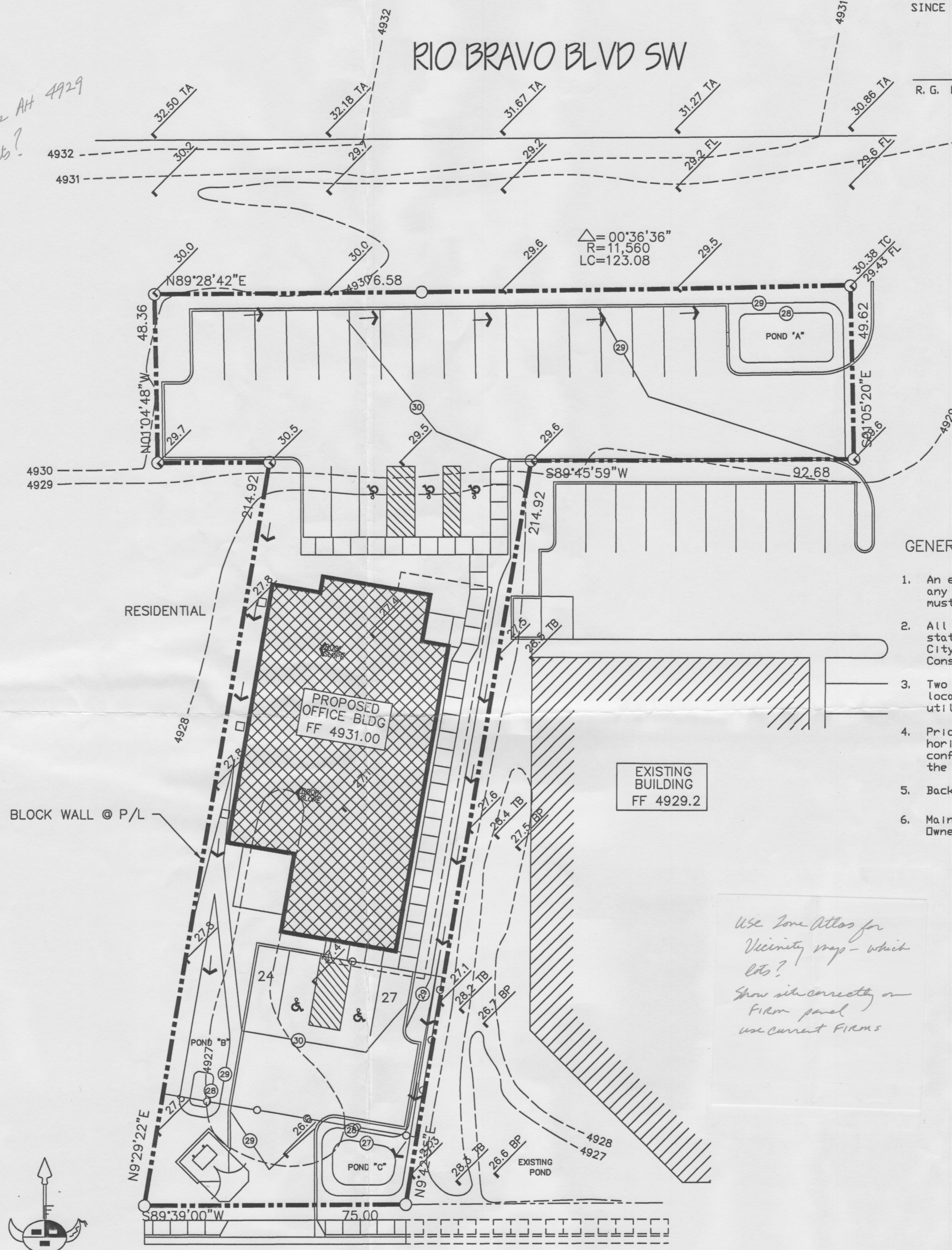


DRAINAGE CALCULATIONS

- I. REFERENCES:
- SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
 - FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 40 OF 50.
 - ZONE ATLAS PAGE P-12-Z.
- II. GENERAL INFORMATION:
- SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1)
 - 100 YEAR, 6 HOUR RAINFALL CRITERIA
 - TIME OF CONCENTRATION, T_c $T_c = 0.2$ hr(12 MINUTES).
- III. IMPERVIOUSNESS:
- | TREATMENT | TYPES OF SURFACES | EXISTING SQ. FT. | ACRES | PROPOSED SQ. FT. | ACRES |
|-----------------|-------------------|------------------|--------|------------------|--------|
| A | UNDEVELOPED | - | 0.0000 | - | 0.0000 |
| B | LANDSCAPING | - | 0.0000 | - | 0.0000 |
| C | COMPACTED/VACANT | 25,634 | 0.5885 | 7,405 | 0.1700 |
| D | IMPERVIOUS | - | 0.0000 | 18,229 | 0.4185 |
| TOTAL AREA (TA) | | 25,634 | 0.5885 | 25,634 | 0.5885 |
- IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):
- | TREATMENT | TYPES OF SURFACES | EXISTING CFS/AC | Qp(100) | PROPOSED CFS/AC | Qp(100) |
|--------------------------|-------------------|-----------------|---------|-----------------|---------|
| A | UNDEVELOPED | 1.29 | 0.00 | 1.29 | 0.00 |
| B | LANDSCAPING | 2.03 | 0.00 | 2.03 | 0.00 |
| C | COMPACTED/VACANT | 2.87 | 1.69 | 2.87 | 0.49 |
| D | IMPERVIOUS | 4.37 | 0.00 | 4.37 | 1.83 |
| PEAK DISCHARGE FROM SITE | | 1.69 CFS | | 2.32 CFS | |
- V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):
- | TREATMENT | TYPES OF SURFACES | EXISTING CFS/AC | Qp(10) | PROPOSED CFS/AC | Qp(10) |
|--------------------------|-------------------|-----------------|--------|-----------------|--------|
| A | UNDEVELOPED | 0.24 | 0.00 | 0.24 | 0.00 |
| B | LANDSCAPING | 0.76 | 0.00 | 0.76 | 0.00 |
| C | COMPACTED/VACANT | 1.49 | 0.88 | 1.49 | 0.25 |
| D | IMPERVIOUS | 2.89 | 0.00 | 2.89 | 1.21 |
| PEAK DISCHARGE FROM SITE | | 0.88 CFS | | 1.46 CFS | |
- VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):
- | TREATMENT | TYPES OF SURFACES | EXISTING E | EXA/TA | PROPOSED E | EXA/TA |
|---------------------|-------------------|------------|--------|------------|--------|
| A | UNDEVELOPED | 0.44 | 0.00 | 0.44 | 0.00 |
| B | LANDSCAPING | 0.67 | 0.00 | 0.67 | 0.00 |
| C | COMPACTED/VACANT | 0.99 | 0.99 | 0.99 | 0.29 |
| D | IMPERVIOUS | 1.97 | 0.00 | 1.97 | 1.40 |
| WEIGHTED "E" FACTOR | | 0.99 IN | | 1.69 IN | |
- VII. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):
- | EXISTING | PROPOSED |
|------------------|--------------|
| 0.5885 x 0.99/12 | 0.05 AC. FT. |
| 2,115 CU. FT. | |
| 0.5885 x 1.69/12 | 0.08 AC. FT. |
| 3,604 CU. FT. | |
- VIII. PROPOSED VOLUMES FOR RAINFALL(6HRS):
- | P(360) | P(1440) | P(4DAYS) | P(10DAYS) | V(1440) | V(10DAYS) |
|----------|----------|----------|-----------|----------------------|---------------|
| 2.20 IN. | 2.66 IN. | 3.12 IN. | 3.67 IN. | 7,644 Cu. Ft. | 9,179 Cu. Ft. |
| | | | | (SEE REF. A, EQ a-7) | |
- IX. POND VOLUME REQUIREMENT
- | V(10DAYS) | V(360) |
|---------------|------------------|
| 9,179 Cu. Ft. | 2,115 (EXISTING) |
| 7,064 Cu. Ft. | |
- X. Pond Volume (average end method)
- Pond "A"
- | Elevation | Surface Area(sqft) | Average Area | Depth (ft) | Volume (cu ft) |
|-----------|--------------------|--------------|------------|----------------|
| 4929.5 | 2,980 | | | |
| 4929 | 1,980 | 2,480 | 0.5 | 1,240 |
| 4928 | 705 | 1,343 | 1.0 | 1,343 |
| 4927 | 112 | 409 | 1.0 | 409 |
| Total | | | | 2,991 |
- Pond "B"
- | Elevation | Surface Area(sqft) | Average Area | Depth (ft) | Volume (cu ft) |
|-----------|--------------------|--------------|------------|----------------|
| 4929 | 1,723 | | | |
| 4928 | 1,500 | 1,612 | 1.0 | 1,612 |
| 4927 | 212 | 856 | 1.0 | 856 |
| Total | | | | 2,468 |
- Pond "C"
- | Elevation | Surface Area(sqft) | Average Area | Depth (ft) | Volume (cu ft) |
|-----------|--------------------|--------------|------------|----------------|
| 4929 | 1,200 | | | |
| 4928 | 846 | 1,023 | 1.0 | 1,023 |
| 4927 | 302 | 574 | 1.0 | 574 |
| Total | | | | 1,597 |
- Total Pond Provided 7,056 cu ft
Total Pond Volume Required 7,064 cu ft
- * Spillover Elevation



GRADING & DRAINAGE PLAN

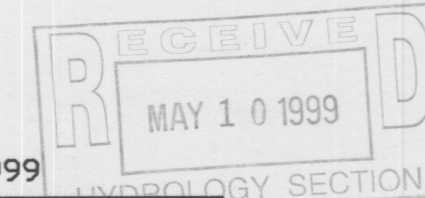
Scale 1"=20'-0"

ENGINEER'S CERTIFICATION

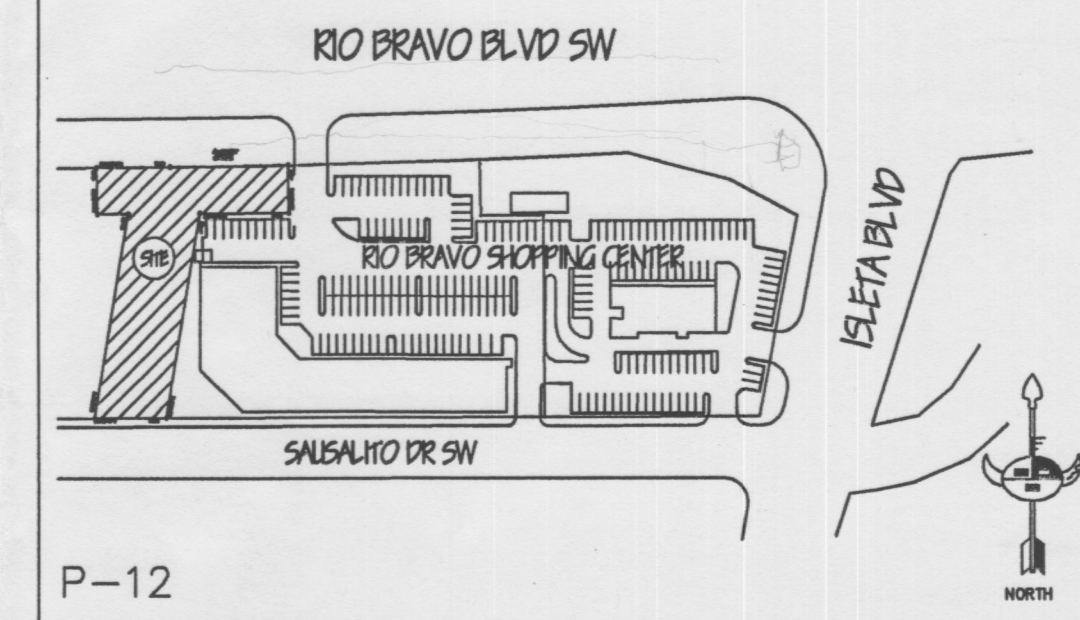
I, R.G. LEE, JR., A REGISTERED PROFESSIONAL ENGINEER HEREBY CERTIFY THAT I HAVE PERSONALLY INSPECTED THIS LOT ON APRIL 2, 1999 AND IT APPEARS GRADING, FILLING, OR EXCAVATION HAS OCCURRED THEREIN SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

R.G. LEE, JR., P.E.

MAY 4, 1999
DATE



ZONE ATLAS



LEGAL DESCRIPTION

SOUTH PORTION OF LOT 10 & 11, BLOCK C
WILSON SUBDIVISION & LOT 4
WILSON SUBDIVISION NO. 2
ALBUQUERQUE, BERNALILLO COUNTY,
NEW MEXICO.

GENERAL NOTES

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- All work detailed in this plan to be preformed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
- Two working days prior to any excavation, contractor must contact line locating services at (505) 260-1990 for locating existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

FLOOD MAP

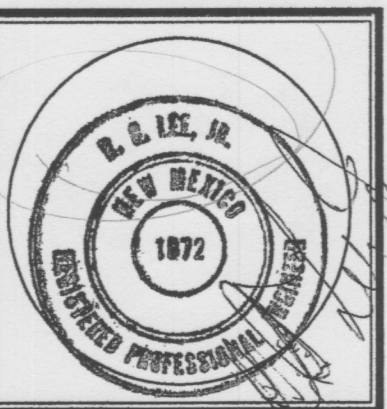


ABBREVIATION LEGEND

TOP OF CONC APRON - TCA
TOP OF CURB - TC
TOP OF ASPHALT - TA
TOP OF BERM - TB
BOTTOM OF POND - BP
FINISHED FLOOR - FF

SYMBOL LEGEND

EXISTING CONTOUR - --- 4930 ---
DESIGN CONTOUR - --- 66.50 TC ---
PROPOSED SPOT ELEVATION - +
PROPERTY LINE - ---
EASEMENT LINE - ---
FLOW DIRECTION -
EXISTING SPOT ELEVATION -
DOWN SPOUT (NO TO SCALE) -



JOB NO:	98.0254520
DATE	1 MAY 1999
REVISIONS	

GRADING & DRAINAGE PLAN
Checked By: H. Head
Drawn By: H. Head

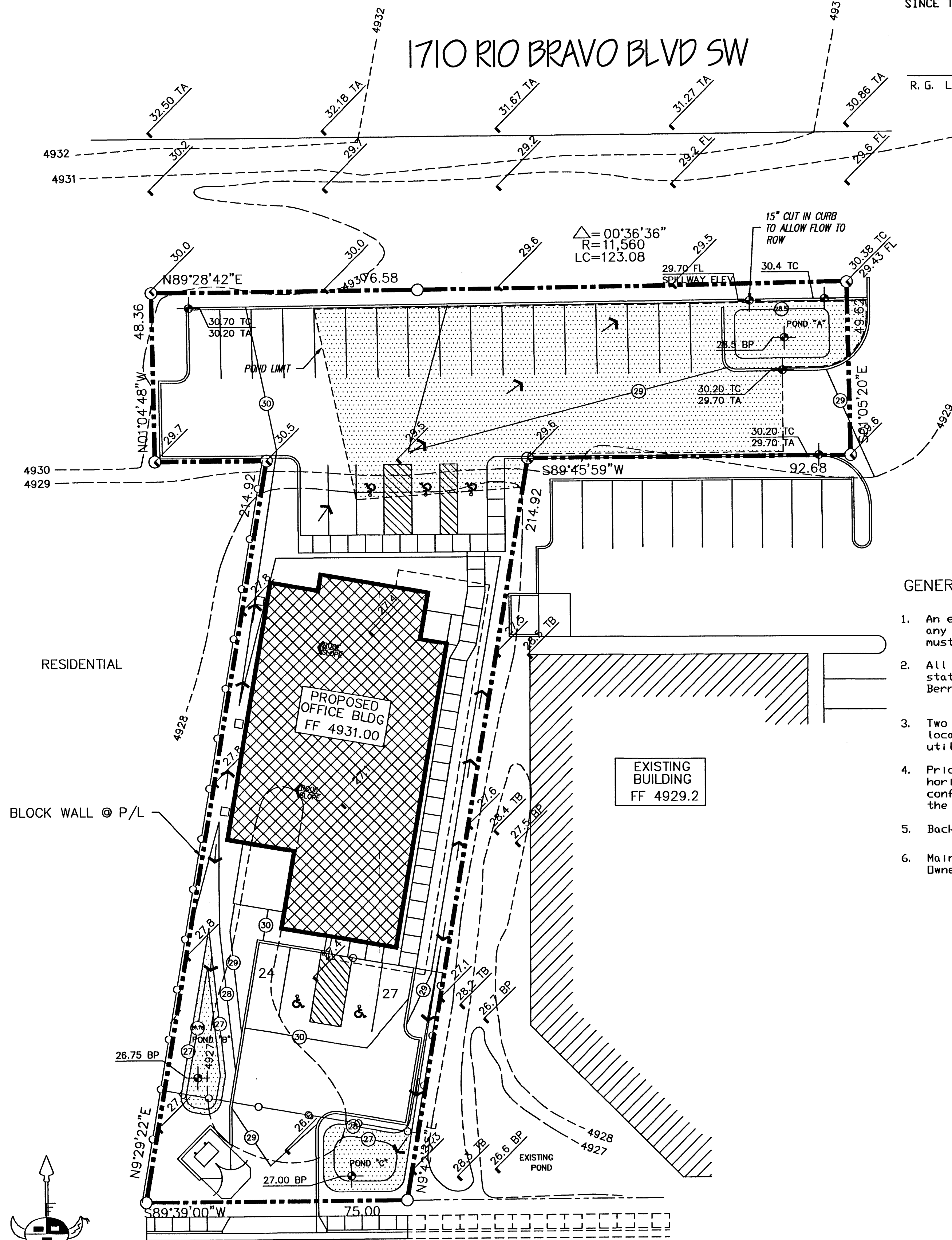
HOOD & COMPANY
DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS
516 Tomesta St. NE - Albuquerque, NM 87103 - (505) 266-5397

JUAN YSIDO BUILDING
SOUTH VALLEY DVR OFFICE
ALBUQUERQUE, NEW MEXICO

SHEET NO.
C-2

DRAINAGE CALCULATIONS

- I. REFERENCES:
- SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
 - FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 40 OF 50.
 - ZONE ATLAS PAGE P-12-Z.
- II. GENERAL INFORMATION:
- SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1)
 - 100 YEAR, 6 HOUR RAINFALL CRITERIA
 - TIME OF CONCENTRATION, T_c ; $T_c = 0.2$ hr(12 MINUTES).
- III. IMPERVIOUSNESS:
- | TREATMENT | TYPES OF SURFACES | EXISTING SQ. FT | ACRES | PROPOSED SQ. FT | ACRES |
|-----------------|-------------------|-----------------|--------|-----------------|--------|
| A | UNDEVELOPED | - | 0.0000 | - | 0.0000 |
| B | LANDSCAPING | - | 0.0000 | - | 0.0000 |
| C | COMPACTED/VACANT | 25,634 | 0.5885 | 7,405 | 0.1700 |
| D | IMPERVIOUS | - | 0.0000 | 18,229 | 0.4185 |
| TOTAL AREA (TA) | | 25,634 | 0.5885 | 25,634 | 0.5885 |
- IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):
- | TREATMENT | TYPES OF SURFACES | EXISTING CFS/AC | Qp(100) | PROPOSED CFS/AC | Qp(100) |
|--------------------------|-------------------|-----------------|---------|-----------------|---------|
| A | UNDEVELOPED | 1.29 | 0.00 | 1.29 | 0.00 |
| B | LANDSCAPING | 2.03 | 0.00 | 2.03 | 0.00 |
| C | COMPACTED/VACANT | 2.87 | 1.69 | 2.87 | 0.49 |
| D | IMPERVIOUS | 4.37 | 0.00 | 4.37 | 1.83 |
| PEAK DISCHARGE FROM SITE | | 1.69 CFS | | 2.32 CFS | |
- V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):
- | TREATMENT | TYPES OF SURFACES | EXISTING CFS/AC | Qp(10) | PROPOSED CFS/AC | Qp(10) |
|--------------------------|-------------------|-----------------|--------|-----------------|--------|
| A | UNDEVELOPED | 0.24 | 0.00 | 0.24 | 0.00 |
| B | LANDSCAPING | 0.76 | 0.00 | 0.76 | 0.00 |
| C | COMPACTED/VACANT | 1.49 | 0.88 | 1.49 | 0.25 |
| D | IMPERVIOUS | 2.89 | 0.00 | 2.89 | 1.21 |
| PEAK DISCHARGE FROM SITE | | 0.88 CFS | | 1.46 CFS | |
- VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):
- | TREATMENT | TYPES OF SURFACES | EXISTING E | EXA/TA | PROPOSED E | EXA/TA |
|---------------------|-------------------|------------|---------|------------|---------|
| A | UNDEVELOPED | 0.44 | 0.00 | 0.44 | 0.00 |
| B | LANDSCAPING | 0.67 | 0.00 | 0.67 | 0.00 |
| C | COMPACTED/VACANT | 0.99 | 0.99 | 0.99 | 0.29 |
| D | IMPERVIOUS | 1.97 | 0.00 | 1.97 | 1.40 |
| WEIGHTED "E" FACTOR | | | 0.99 IN | | 1.69 IN |
- VII. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):
- | EXISTING | PROPOSED |
|------------------|---------------|
| 0.5885 x 0.99/12 | 0.05 AC. FT. |
| | 2,115 CU. FT. |
| PROPOSED | |
| 0.5885 x 1.69/12 | 0.08 AC. FT. |
| | 3,604 CU. FT. |
- VIII. DETENTION POND VOLUME REQUIRED CALCULATION
- V(360) = 3,604 Cu. Ft
2,115 (EXISTING)
1,489 Cu. Ft
- IX. Pond Volume (average end method)
- Pond "A"
- | Elevation | Surface Area(sqft) | Average Area | Depth (ft) | Volume (cu ft) |
|-----------|--------------------|--------------|------------|----------------|
| * 4929.7 | 6,475 | | | |
| 3,238 | 4,857 | 2,480 | 0.5 | 2428 |
| 4928 | 340 | 1,789 | 0.5 | 895 |
| 4927 | 112 | 409 | 1.0 | 409 |
| Total | | | | 3323 |
- Pond "B"
- | Elevation | Surface Area(sqft) | Average Area | Depth (ft) | Volume (cu ft) |
|-----------|--------------------|--------------|------------|----------------|
| * 4927 | 365 | | | |
| 4926.75 | 213 | 289 | 0.25 | 72 |
| Total | | | | 72 |
- Pond "C"
- | Elevation | Surface Area(sqft) | Average Area | Depth (ft) | Volume (cu ft) |
|-----------|--------------------|--------------|------------|----------------|
| * 4928 | 454 | | | |
| 4927 | 199 | 327 | 1.0 | 327 |
| Total | | | | 327 |
- Total Pond Provided 3,722 cu ft
Total Pond Volume Required 1,489 cu ft
- * Spillover Elevation
- VIII. WEIR CALCULATIONS
- $Q = CLH^{3/2}$
 $L = Q/CH^{3/2}$
 $L = 1.46/3.33 \times 0.5^{3/2}$
 $L = 1.24'$ OR $15'$



SAUSALITO DR SW

ACCESSIBLE ROUTE
THE ACCESSIBLE ROUTE IS A PATH CONNECTING ALL ACCESSIBLE ELEMENTS AND SPACES WITHIN A SITE, BUILDING OR FACILITY THAT IS USABLE BY PERSONS WITH PHYSICAL DISABILITIES. IN THIS FACILITY THE ACCESSIBLE ROUTE CONSISTS OF WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, RAMP WITH A SLOPE NOT STEEPER THAN 1:12, HC PARKING SPACES AND ACCESS AISLES WITH A SLOPE NOT GREATER THAN 1:48 IN ANY DIRECTION AND CLEAR FLOOR SPACE FOR ACCESSIBLE ELEMENTS. CROSS SLOPES SHALL NOT EXCEED 1:48.

ABBREVIATION LEGEND

TOP OF CONC APRON - TCA
TOP OF CURB - TC
TOP OF ASPHALT - TA
TOP OF BERM - TB
BOTTOM OF POND - BP
FINISHED FLOOR - FF

SYMBOL LEGEND

EXISTING CONTOUR - 4930
DESIGN CONTOUR - 66.50 TC
PROPOSED SPOT ELEVATION - 49.6
PROPERTY LINE - 100.0
EASEMENT LINE - 100.0
FLOW DIRECTION - 100.0
EXISTING SPOT ELEVATION - 49.6
DOWN SPOUT (NO TO SCALE) - 100.0

P12/D14
PWDN-990096

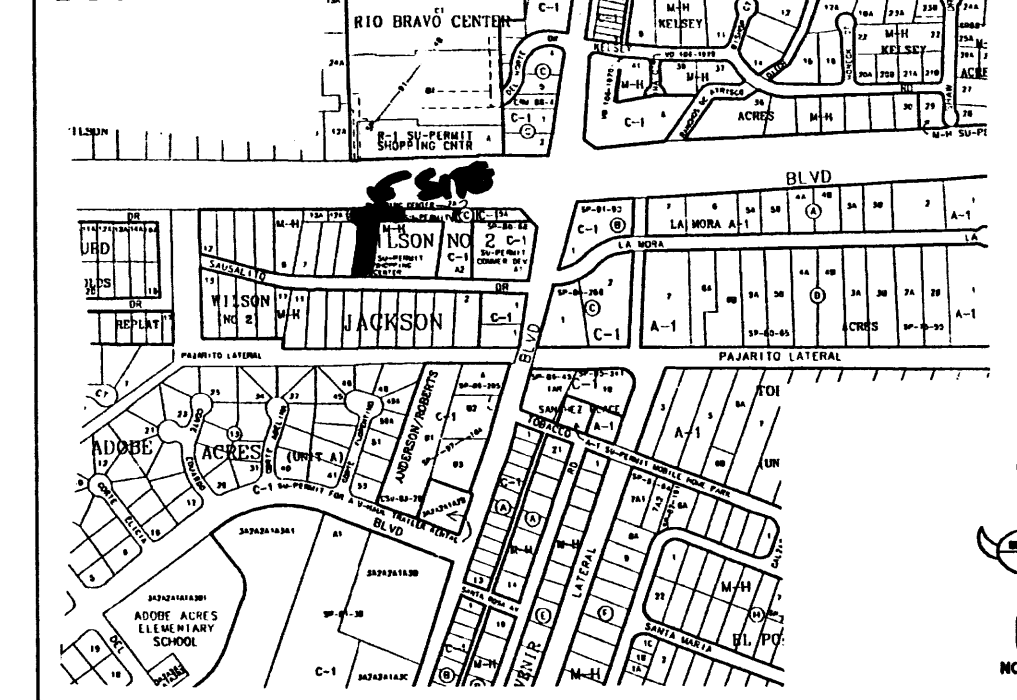
ENGINEER'S CERTIFICATION

I, R. G. LEE, JR., A REGISTERED PROFESSIONAL ENGINEER HEREBY CERTIFY THAT I HAVE PERSONALLY INSPECTED THIS LOT ON APRIL 2, 1999 AND IT APPEARS GRADING, FILLING, OR EXCAVATION HAS OCCURRED THEREON SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

R. G. LEE, JR., P. E.

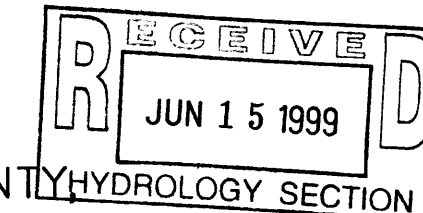
DATE 6/1/99

ZONE ATLAS



LEGAL DESCRIPTION

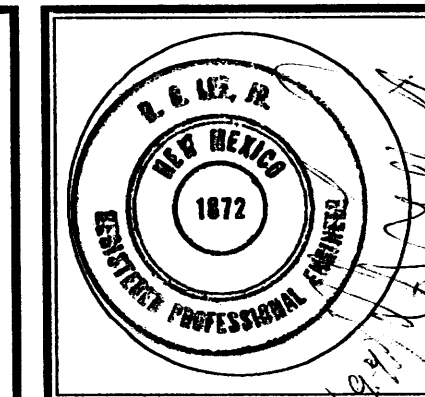
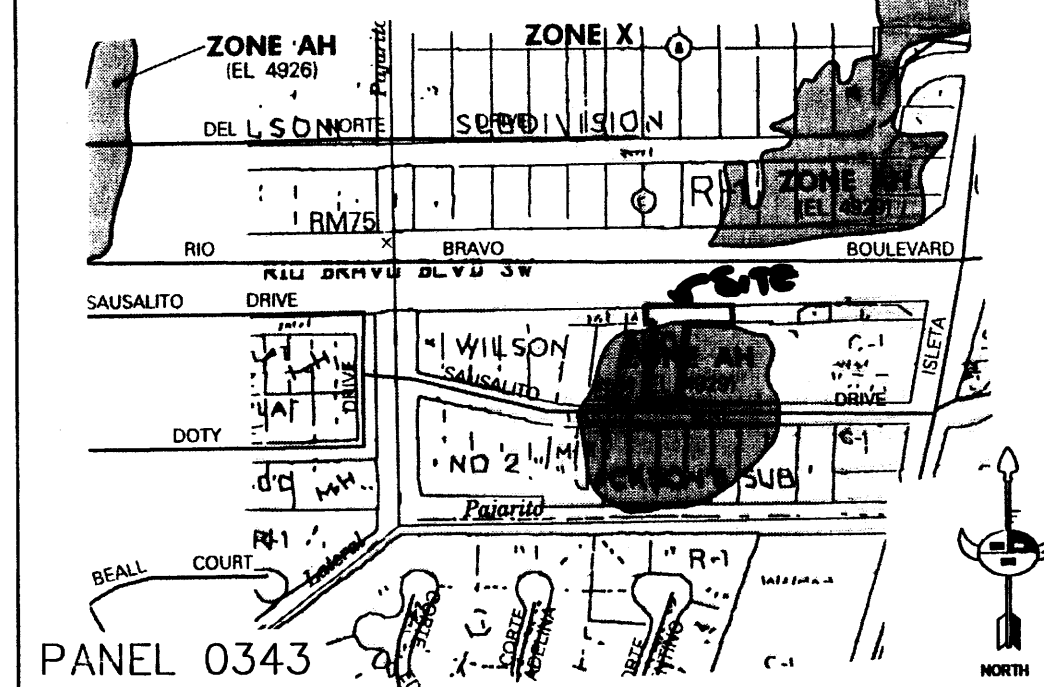
LOT 10A & 11A, BLOCK C
WILSON SUBDIVISION & LOT 4
WILSON SUBDIVISION NO. 2
ALBUQUERQUE, BERNALILLO COUNTY
NEW MEXICO.



GENERAL NOTES:

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Bernalillo County Standard Specification for Public Works Construction.
- Two working days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

FLOOD MAP



JOB NO: 98.0254520

1 MAY 1999

REVISIONS

11 JUNE 1999

GRADING & DRAINAGE PLAN

Checked By: RGL

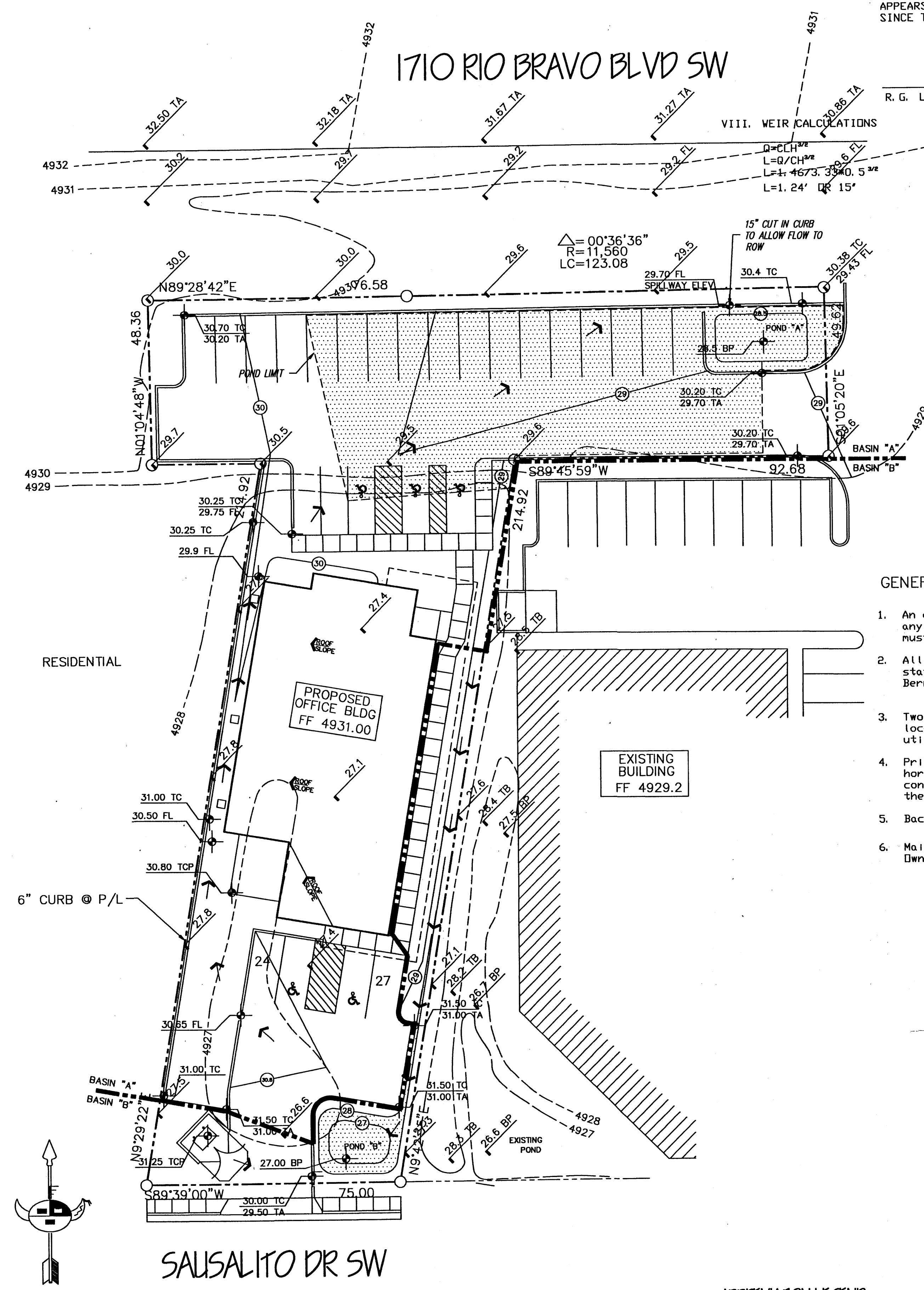
Drawn By: H. Head

HOOD & COMPANY
DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS
516 Tomesta St. NE • Albuquerque, NM • 87113 • (505) 266-5397

JUAN YESIDO BUILDING
SOUTH VALLEY DVR OFFICE
ALBUQUERQUE, NEW MEXICO

SHEET NO.

C-2



ENGINEER'S CERTIFICATION

I, R. G. LEE, JR., A REGISTERED PROFESSIONAL ENGINEER HEREBY CERTIFY THAT I HAVE PERSONALLY INSPECTED THIS LOT ON APRIL 2, 1999 AND IT APPEARS GRADING, FILLING, OR EXCAVATION HAS OCCURRED THEREIN SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

R. G. LEE, JR., P.E. 6/29/99
DATE

ZONE ATLAS



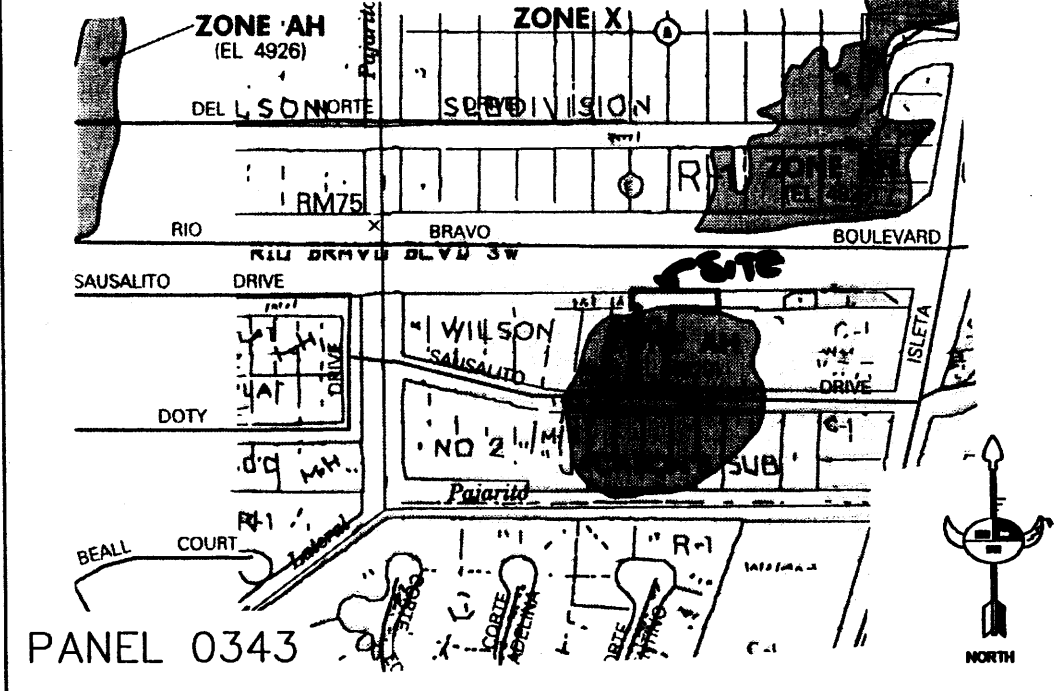
LEGAL DESCRIPTION

LOT 10A & 11A, BLOCK C
WILSON SUBDIVISION & LOT 4
WILSON SUBDIVISION NO. 2
ALBUQUERQUE, BERNALILLO COUNTY,
NEW MEXICO.

GENERAL NOTES:

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be preformed, except as otherwise stated or provided hereon, shall be constructed in accordance with Bernalillo County Standard Specification for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact line locating services at (505) 260-1990 for locating existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to residential street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of property served.

FLOOD MAP



RECEIVED
JUN 30 1999
HYDROLOGY SECTION

ABBREVIATION LEGEND

- TOP OF CONC APRON - TCA
- TOP OF CURB - TC
- TOP OF ASPHALT - TA
- TOP OF BERM - TB
- BOTTOM OF POND - BP
- FINISHED FLOOR - FF

SYMBOL LEGEND

- EXISTING CONTOUR - 4930
- DESIGN CONTOUR - 30
- PROPOSED SPOT ELEVATION - 66.50 TC
- PROPERTY LINE
- EASEMENT LINE
- FLOW DIRECTION
- EXISTING SPOT ELEVATION
- DOWN SPOUT (NO TO SCALE)

GRADING & DRAINAGE PLAN

Scale 1"=20'-0"



JOB NO:	98.0254520
DATE:	1 MAY 1999
REVISIONS:	
	11 JUNE 1999

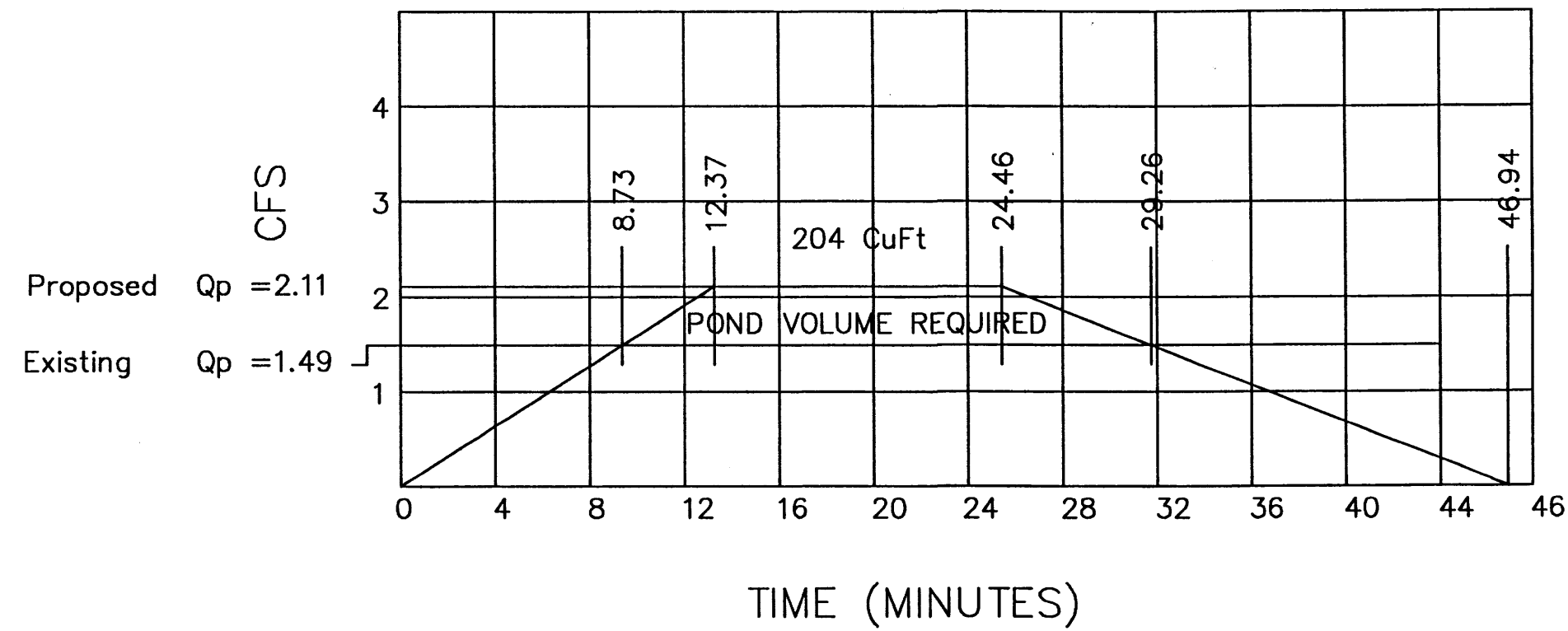
Sheet Title
GRAVING & DRAINAGE PLAN
Drawn By: H. Hood
Checked By: R.L.

HOOD & COMPANY
DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS
516 Tomalia St. NE Albuquerque, NM 87103
(505) 260-5301

Project Name
JUAN YSIDO BUILDING
SOUTH VALLEY DVR OFFICE
ALBUQUERQUE, NEW MEXICO

SHEET NO.
C-2A

P12/D14
PHDN-990096



HYDROGRAPH CALCULATIONS

E = 1.78 IN
Tc = 0.2 Hr
A(D) = 0.4175 AC
A(T) = 0.5179 AC
Qp = 2.11 cfs

T(P) = 0.206 HR
12.37 min
T(B) = 0.6797 HR
40.78 min

Duration 0.202 HR
of peak 12.09 min

Release Rate = 1.49 cfs
Areas in Triangle Release Area
Area a = 783.0 Area a 390.4
Area b = 1,530.9 Area b 1834.7
Area c = 1,033.1 Area c 917.3
Total = 3,346.9 CuFt 3142.5 CuFt

Triangle Conponets 204.4
X = 8.73 Min
X' = 11.52 Min
X'' = 20.52 Min

Time intersection
Cfs Time
1 1.49 8.73
2 2.11 12.37
3 2.11 24.46
4 1.49 29.26
5 0 40.78

Pond Volume (average end method)

Pond "A"					Volume (cu ft)
Elevation	Surface Area(sq ft)	Average Area	Depth (ft)		
4929.7	6,475				
4929	3,238	4,857	0.5		2,428
4928.5	340	1,789	0.5		895
Total					3,323
Required pond volume					204 (cuft)

Pond "B"					Volume (cu ft)
Elevation	Surface Area(sq ft)	Average Area	Depth (ft)		
4928	470				
4927	199	335	1.00		335
Total					335
Required pond volume					186 (cuft)

* Spillover Elevation

Basin A					
III. IMPERVIOUSNESS:					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	SQ.FT	ACRES	SQ.FT	ACRES
A	UNDEVELOPED	-	0.0000	-	0.0000
B	LANDSCAPING	-	0.0000	-	0.0000
C	COMPACTED/VACA	22,558	0.5179	4,373	0.1004
D	IMPERVIOUS	-	0.0000	18,185	0.4175
	TOTAL AREA (TA)	22,558	0.5179	22,558	0.5179

IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	CFS/AC	Qp(100)	CFS/AC	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
B	LANDSCAPING	2.03	0.00	2.03	0.00
C	COMPACTED/VACA	2.87	1.49	2.87	0.29
D	IMPERVIOUS	4.37	0.00	4.37	1.82
	PEAK DISCHARGE FROM SIT	1.49	CFS	2.11	CFS

V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	CFS/AC	Qp(10)	CFS/AC	Qp(10)
A	UNDEVELOPED	0.24	0.00	0.24	0.00
B	LANDSCAPING	0.76	0.00	0.76	0.00
C	COMPACTED/VACA	1.49	0.77	1.49	0.15
D	IMPERVIOUS	2.89	0.00	2.89	1.21
	PEAK DISCHARGE FROM SIT	0.77	CFS	1.36	CFS

VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	E	EXA/TA	E	EXA/TA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
B	LANDSCAPING	0.67	0.00	0.67	0.00
C	COMPACTED/VACA	0.99	0.99	0.99	0.19
D	IMPERVIOUS	1.97	0.00	1.97	1.59
	WEIGHTED "E" FACTOR	0.99	IN	1.78	IN

VI. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):					
EXISTING					
		0.04	AC. FT.		
		1,861	CU.FT.		
PROPOSED					
		0.08	AC. FT.		
		3,346	CU.FT.		

VI. PROPOSED VOLUMES FOR RAINFALL>6HRS:					
	P(360)=	2.20	IN.	(SEE REF. A, TABLE A-2)	
	P(1440)=	2.66	IN.		
	P(4DAYS)=	3.12	IN.		
	P(10DAYS)=	3.67	IN.		
	V(1440)=	4,043	CU.FT.	(SEE REF. A, EQ #7)	
	V(10DAYS)=	5,574	CU.FT.		

Basin B					
III. IMPERVIOUSNESS:					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	SQ.FT	ACRES	SQ.FT	ACRES
A	UNDEVELOPED	-	0.0000	-	0.0000
B	LANDSCAPING	-	0.0000	-	0.0000
C	COMPACTED/VACA	3,076	0.0706	2,187	0.0497
D	IMPERVIOUS	-	0.0000	909	0.0209
	TOTAL AREA (TA)	3,076	0.0706	3,076	0.0706

IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	CFS/AC	Qp(100)	CFS/AC	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
B	LANDSCAPING	2.03	0.00	2.03	0.00
C	COMPACTED/VACA	2.87	0.20	2.87	0.14
D	IMPERVIOUS	4.37	0.00	4.37	0.09
	PEAK DISCHARGE FROM SIT	0.20	CFS	0.23	CFS

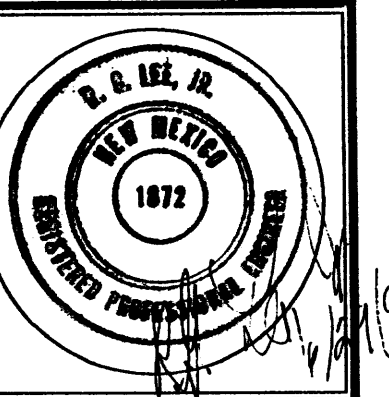
V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	CFS/AC	Qp(10)	CFS/AC	Qp(10)
A	UNDEVELOPED	0.24	0.00	0.24	0.00
B	LANDSCAPING	0.76	0.00	0.76	0.00
C	COMPACTED/VACA	1.49	0.11	1.49	0.07
D	IMPERVIOUS	2.89	0.00	2.89	0.06
	PEAK DISCHARGE FROM SIT	0.11	CFS	0.13	CFS

VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):					
TREATMEN	TYPES OF	EXISTING	PROPOSED		
TYPE	SURFACES	E	EXA/TA	E	EXA/TA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
B	LANDSCAPING	0.67	0.00	0.67	0.00
C	COMPACTED/VACA	0.99	0.13	0.99	0.10
D	IMPERVIOUS	1.97	0.00	1.97	0.08
	WEIGHTED "E" FACTOR	0.13	IN	0.17	IN

VI. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):					
EXISTING					
		0.01	AC. FT.		
		254	CU.FT.		
PROPOSED					
		0.01	AC. FT.		
		328	CU.FT.		

VI. PROPOSED VOLUMES FOR RAINFALL>6HRS:					
	P(360)=	2.20	IN.	(SEE REF. A, TABLE A-2)	
	P(1440)=	2.66	IN.		
	P(4DAYS)=	3.12	IN.		
	P(10DAYS)=	3.67	IN.		
	V(1440)=	363	CU.FT.	(SEE REF. A, EQ #7)	
	V(10DAYS)=	439	CU.FT.		

Retention Pond Required volume					
		439			
		254			
		186			



JOB NO.	98.0254520
DATE	1 MAY 1999
REVISIONS	
DATE	11 JUNE 1999
REVISIONS	
DATE	
REVISIONS	

Sheet Title

GRADING & DRAINAGE PLAN

Drawn By: H Head

Checked By: RZ

HOOD & COMPANY

DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS

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Project Name

JUAN YSIDO BUILDING

SOUTH VALLEY DVR OFFICE

ALBUQUERQUE, NEW MEXICO