

DRAINAGE

CALCULATIONS

VICINITY MAP

The site is located on the north side of Gibson Boulevard approximately 500 feet west of University Boulevard. The property east of the site is Budgetel Inn, Grading and Drainage Plan prepared by Mark Goodwin and Associates. The westerly access of this motel from Gibson Boulevard is an access easement which will also be used by this site. North of the site is another access eassement which is presently undeveloped land. In the north side of this access easement is a retaining wall for another motel. The property west of the site is undeveloped. The site slopes from east to west at an average slope of approximately 3 % The Budgetel Inn has a drainage outfall system consisting of 4 each 4' PVC pipes which cross a corner of the site and discharge into Gibson Boulevard through the curb.

It is proposed to construct a motel on the site as shown with runoff from the site discharged to Gibson Boulevard through 4' PVC pipes through the curb. The South Diversion Channel is approximately 1,000 feet west of the site. The site does not lie within or adjacent to a designated flood hazard area and there are no flood hazard areas downstream from the site. The only off-site flow comes from the access easement north of the site. DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, January, 1993.

A drainage submittal for the property to the west with the title, "BUDGETEL INN GRADING AND DRAINAGE PLAN', was prepared by D. Mark Goodwin and Associates, Engineer's stamp dated 12/18/95. and latest Engineer's Certification (Record Drawing) dated 2/7/97.

The site is east of the Rio Grande River but west of San Mateo Boulevard and is, therefore, in Precipitation Zone 2.

LAND TREATMENT AREAS. EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE: The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D. P. M.

	Also shown	are th	e existin	g and p	roposed la	nd trea	tment are	205,			
LAND		q(cfs/ac)		E (in)		Exsisting Site Areas			Developed Site Areas		
	TREATMENT	100-y	r. 10-yr.	100-y	<u>r. 10-yr.</u>		Sq. Ft	. Acres		Sq. Ft	<u>. Acres</u>
l	Α	1. 56	0. 38	0. 53	0. 13	100. 0	45, 085	1. 0350	0. 0	0	0.0000
-	В	2. 28	0. 95	0, 78	0, 28 ~	0.0	0	0.0000	16. 6	7, 463 ~	0. 1713
ı	C	3. 14	1. 71	1. 13	0. 52	0. 0	0	0. 0000	0. 0	0	0. 0000
	D	4. 70	3. 14	2. 12	1. 34	0. 0	0	0. 0000	83. 4	37,622	0. 8637
	Totals					100. 0	45, 085	1. 0350	100. 0	45, 085	1. 0350
	PEAK DIS	CHARC	E.								

Genust 18, 2000

PEAK DISCHARGE:

Q100 = 1.0350 * 1.56 = 1.61 cfs Q10 = 1.0350 * 0.38 = 0.39 cfs DEVELOPED CONDITIONS:

Q100 = 0.1713 * 2.28 + 0.8637 * 4.70 = 4.45 cfs $Q10 = 0.1730 \times 0.95 + 0.8637 \times 3.14 = 2.87 \text{ cfs}$ VOLUME, 100-YEAR, 6-HOUR:

EXISTING CONDITIONS

V100 = 45,085 (0.53 / 12) = 1,991 cfV10 = 45,085 (0.13 / 12) = 488 cf

V100 = (7, 463 * 0.78 + 37, 622 * 2.12)/12 = 7, 131 cf V10 = (7, 463 * 0.28 + 37, 622 * 1.34)/12 = 4, 375 cf

SUMMARY OF VOLUMES AND PEAK DISCHARGE RATES: V10(CF) Q10(CFS) 1. 61 0. 39 4, 375 **DEVELOPED** 7, 131 4, 45 2, 89 INCREASE 5, 140 3, 887 2, 84

PEAK DISCHARGE FOR ON-SITE BASINS: TREAT. B

TOTALS TREAT. D 7, 752 0, 1780 11,642 AREA (SF) 3,890 0. 2673 AREA (AC) 0.0893 PERCENT

ZONE ATLAS NO. L -15

Weighted Peak Discharge per Acre (qw): $qw = 2.28 \times 0.334 + 4.70 \times 0.666) = 3.89 cfs/ac.$ Q100 = 0.2673 * 3.89 = 1.04 cfs

BASIN 2 TREAT. D TOTALS AREA (SF) 2,642 25, 421 28, 063 0, 5836 AREA (AC) 0, 0607 0, 6443 PERCENT 9. 4 100, 00 Weighted Peak Discharge per Acre (qw):

qw = 2.28 * 0.094 + 4.70 * 0.906) = 4.47 cfs/ac.Q100 = 0.6443 * 4.47 = 2.88 cfs

BASIN 3	TRE	AT. B	TREAT. D	TOTALS
	AREA (SF)	927	4, 453	5, 380
	AREA (AC) O. (0213	0. 1022	0. 1235
	PERCENT 1	17. 2	82. 8	100.00
Weighted Pe	ak Discharge	per Acre (q	w):	

qw = 2.28 * 0.172 + 4.70 * 0.828) = 4.28 cfs/ac.Q100 = 0.1235 * 4.28 = 0.53 cfs

INLET AND MANHOLE PIPE DIAMETER SELECTION: Use Orifice Equation $Q = CA(2GH)^{1/2}C = 0.6$ A = 0.3526 sf INLET/ DISCH. PIPE DIA. INVERT GRATE HEAD ACTUAL MANHOLE (Q100) & AREA(SF) ELEV. ELEV. (H) FT. DISCH. (Q)

INLET 1 1.04 6'-0.1963 70.04 71.54 1.25 1.05 INLET 2 3. 13 12'-0. 7854 69. 50 71. 00 1. 00 3. 78 INLET 3 1.57 8'-0.3494 69.69 71.54* 1.52 2.07 MH ND. 1 1.57 4-4"-0.3420 67.75 69.30* 1.38 1.93 MH ND. 2 3.32 4-4"-0.3420 65.70 69.50* 0.30 3.60

*PROPOSED HIGH WATER LEVEL IN MANHOLE OR INLET.

OFFSITE FLOW:

Area = $183 \times 38 = 6,954 \text{ sf } (0.1596 \text{ ac.})$ Q100 = 0.1596 * 1.56 = 0.25 cfsRevised Offsite flow Calculations

The access easement was paved during construction of the motel. The pavement sloped from east to west and discharged into the property to the West into Tract 4. This was not in accordance with the approved G&D plan. Therefore, the Owner was required to fill the West end of the easement so that the access easement will drain into the Quality Suites parking lot as per design. Increased runoff due to paving Of the 183' length of access

easement, approximately 140' has been paved. Increase in runoff due to paving portion of access easement Area = $140 \times 38 = 5,320 \text{ sf } (0.1221 \text{ ac.})$

Increase in $Q100 = 0.1221 \times (4.70 - 3.14) = 0.19 \text{ cfs}$ New Peak Discharge, Q100 = 0.25 + 0.19 = 0.44 cfs

- 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- OTHERVISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATIONS OF EXISTING UTILITIES.
- 4 PRIOR TO CONSTRUCTION, THE CONSTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE
- 5 BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY
- 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

DATE 6-19-00

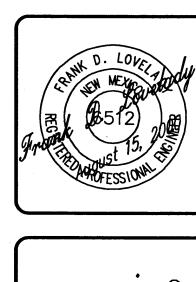
NOTICE TO CONTRACTORS

2 ALL WORK DETAILED ON THIS PLAN TO BE PERMORMED, EXCEPT AS

3 TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR

RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

OF THE OWNER OF THE PROPERTY SERVED.



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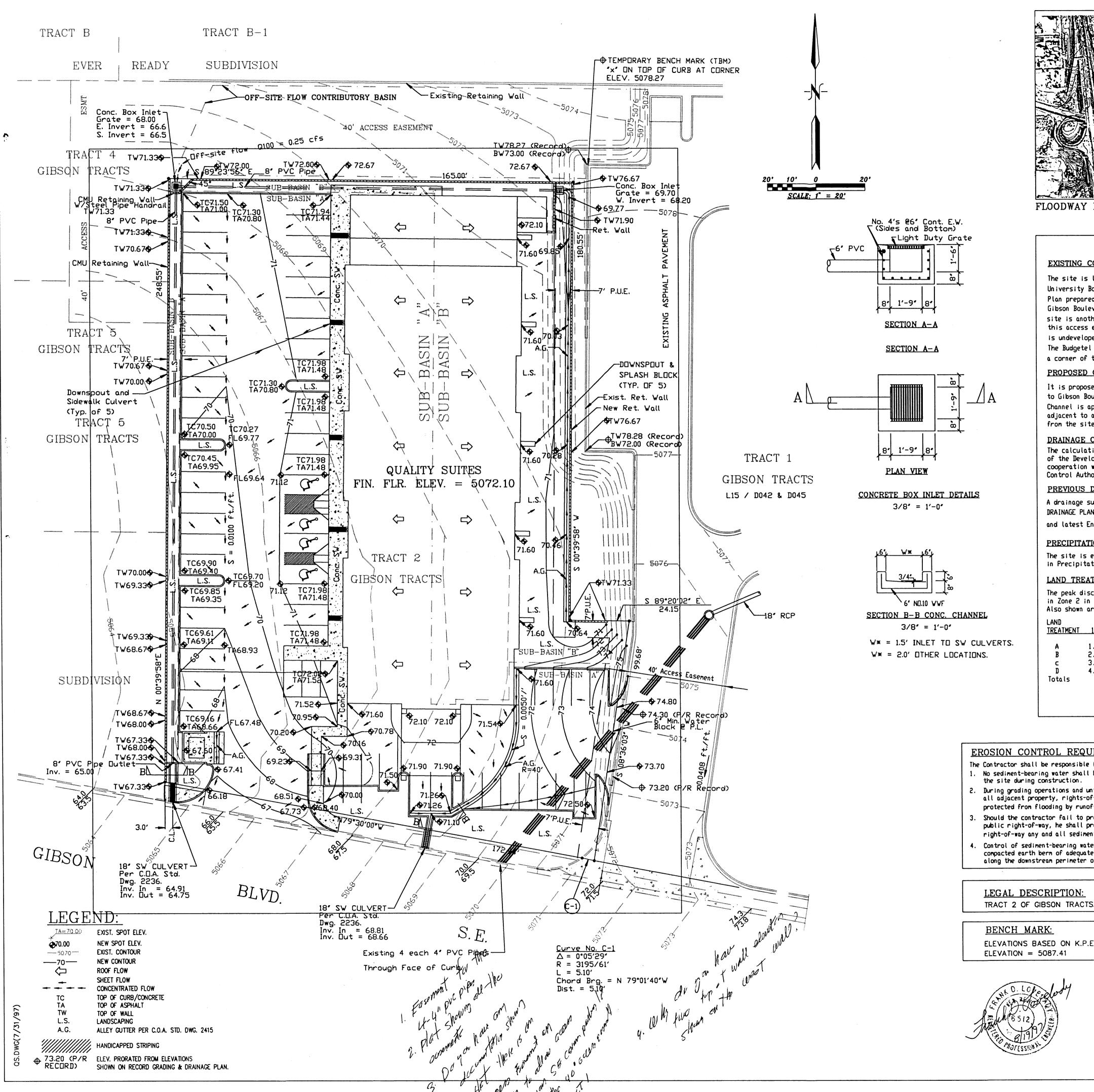
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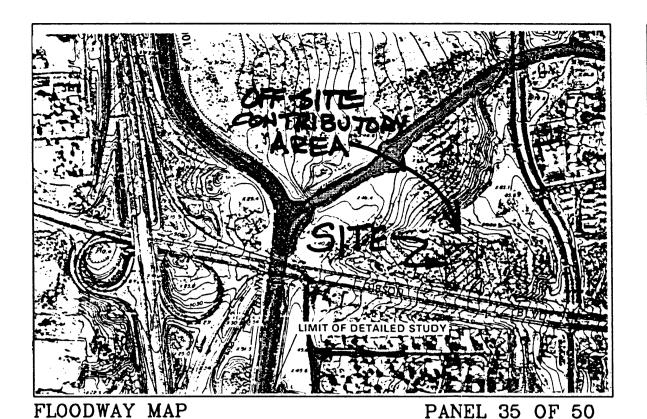
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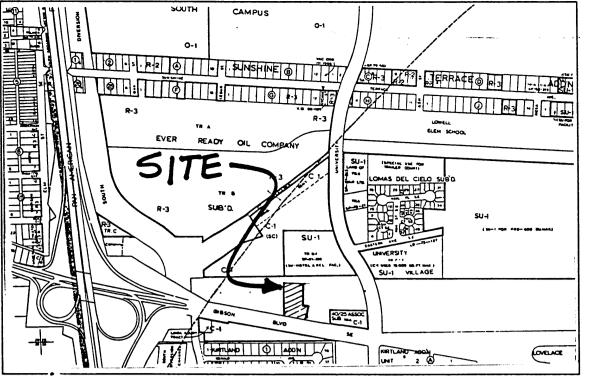
[1] A LOUE

JOB NO: DATE: August 15, 2000 REVISIONS

SHEET NO.







VICINITY MAP

ZONE ATLAS NO. L-15

EXISTING CONDITIONS:

DRAINAGE CALCULATIONS

The site is located on the north side of Gibson Boulevard approximately 500 feet west of University Boulevard. The property east of the site is Budgetel Inn, Grading and Drainage Plan prepared by Mark Goodwin and Associates. The westerly access of this motel from Gibson Boulevard is an access easement which will also be used by this site. North of the site is another access eassement which is presently undeveloped land. On the north side of this access easement is a retaining wall for another motel. The property west of the site is undeveloped. The site slopes from east to west at an average slope of approximately 3 %. The Budgetel Inn has a drainage outfall system consisting of 4 each 4' PVC pipes which cross a corner of the site and discharge into Gibson Boulevard through the curb.

PROPOSED CONDITIONS:

It is proposed to construct a motel on the site as shown with runoff from the site discharged to Gibson Boulevard through the driveway and through a sidewalk culvert. The South Diversion Channel is approximately 1,000 feet west of the site. The site does not lie within or adjacent to a designated flood hazard area and there are no flood hazard areas downstream from the site. The only off-site flow comes from the access easement north of the site.

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, January, 1993.

PREVIOUS DRAINAGE SUBMITTAL:

A drainage submittal for the property to the west with the title, 'BUDGETEL INN GRADING AND DRAINAGE PLAN', was prepared by D. Mark Goodwin and Associates, Engineer's stamp dated 12/18/95 and latest Engineer's Certification (Record Drawing) dated 2/7/97.

PRECIPITATION ZONE:

The site is east of the Rio Grande River but west of San Mateo Boulevard and is, therefore, in Precipitation Zone 2.

LAND TREATMENT AREAS. EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D.P.M. Also shown are the existing and proposed land treatment areas

LAND	q(cfs/ac)			E (in)		Exsisting Site Areas % Sq.Ft. Acres			Developed Site Areas % Sq.Ft. Acres		
TREATMENT	100-y	r. 10-yr	. <u>100-y</u> i	r. IU-yr.		70.17	. Acres		30.11	. Acres	
A	1.56	0.38	0.53	0.13	100.0	45,0 85	1.0350	0.0	0	0.0000	
В	2.28	0.95	0.78	0.28	0.0	0	0.0000	16.6	7,463	0.1713	
c	3.14	1.71	1.13	0.52	0.0	0	0.0000	0.0	0	0.0000	
D	4.70	3.14	2.12	1.34	0.0	0	0.0000	83.4	37,622	0.8637	
Totals					100.0	45,085	1.0350	100.0	45,085	1.0350	

PEAK DISCHARGE:

EXISTING CONDITIONS: Q100 = 1.0350 * 1.56 = 1.61 cfs Q10 = 1.0350 * 0.38 = 0.39 cfs

DEVELOPED CONDITIONS:

Q100 = $0.1713 \times 2.28 + 0.8637 \times 4.70 = 4.45$ cfs

Q10 = $0.1730 \times 0.95 + 0.8637 \times 3.14 = 2.87$ cfs

VOLUME, 100-YEAR, 6-HOUR:

EXISTING CONDITIONS: V100 = 45,085 (0.53 / 12) = 1,991 cf

V10 = 45,085 (0.13 / 12) = 488 cfDEVELOPED CONDITIONS:

V100 = {7,463 × 0.78 + 37,622 × 2.12}/12 = 7,131 cf V10 = {7,463 × 0.28 + 37,622 × 1.34}/12 = 4,375 cf SUMMARY OF VOLUMES AND PEAK DISCHARGE RATES:

DEVELOPED INCREASE 2.84 PEAK DISCHARGE AND VOLUME FROM SUB-BASIN "A":

Treatment "B", landscaping, 6,004 sf (44.5%). Treatment 'D', Bldg., Pvmt., 7,483 sf (55.5%). Total Area Sub-Basin 'B' 13,487 sf (0.3096 ac)

Weighted Peak Discharge per Acre (qw): (100-Year) qw = 2.28 * 0.445 + 4.70 * 0.555) = 3.62 cfs/ac. (10-Year) $qw = 0.95 \times 0.445 + 3.14 \times 0.555$ = 2.17 cfs/ac. Weighted Excess Precipitation (Ew): (100-Year) $Ew = 0.78 \times 0.445 + 2.12 \times 0.555$) = 1.52 in. (10-Year) $Ew = 0.28 \times 0.445 + 1.34 \times 0.555$) = 0.74 in.

PEAK DISCHARGE, SUB-BASIN "B": (100-Year) Q100 = 3.62 * 0.3096 = 1.12 cfs (10-Year) Q10 = $2.17 \times 0.3096 = 0.67$ cfs.

VOLUME, 100-YEAR AND 10-YEAR, 6-HOUR, SUB-BASIN 'B' (100-Year) V100 = (13,487)(1.52/12) = 1,708 cf

(10-Year) V10 = (13,487)(0.74/12) = 832 cf. OFFSITE FLOW:

Area = $183 \times 38 = 6,954 \text{ sf } (0.1596 \text{ ac.})$

Q100 = 0.1596 * 1.56 = 0.25 cfs8" PVC PIPE:

Use Orifice Equation $Q = CA(2GH)^{1/2} C = 0.6 A = 0.3526 sf$ H = Grate to Springline = 1.5' - 0.33' = 1.17' $Q = 0.6 \times 0.3526(2 \times 32.2 \times 1.17)^{1/2} = 1.83 \text{ cfs}$

Design Discharge = 1.12 cfs + 0.25 cfs = 1.37 cfs (OK) SIDEWALK CULVERT:

Design Q = 1.12 cfs + .0.25 cfs = 1.37 cfs. Use Weir Eq. Q = $CLH^{3/2}$ C = 2.65 L = 1.5 H = 0.67 Q = 2.65 * 1.5 * 0.67 = 2.18 cfs > 1.37 cfs (DK)

EROSION CONTROL REQUIREMENTS:

- The Contractor shall be responsible for compliance with the following: 1. No sediment-bearing water shall be allowed to discharge from
- the site during construction.
- 2. During grading operations and until the project has been completed, all adjacent property, rights-of-way, and easements shall be protected from flooding by runoff from the site.
- Should the contractor fail to prevent sediment-bearing water from entering public right-of-way, he shall promptly remove from the public right-of-way any and all sedimentation originating from the site.
- Control of sediment-bearing waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeter of the property.

LEGAL DESCRIPTION:

BENCH MARK:

ELEVATIONS BASED ON K.P.E. CONTROL STATION, SDC 13-4. ELEVATION = 5087.41

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY (S.O.19)

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICA-TION FOR THIS PERMIT.
- 2. ALL WORK DETAILED ON THIS PLAN TO BE PERMORMED UNDER CONTRACT, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS UPDATED THROUGH REVISION NO. 6.
- 3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC., 260-1990, FOR LOCATION FOR EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. 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 ARTERIAL STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY
- 7. THE ADDRESS OF THE PROPERTY SERVED IS 1509 GIBSON BOULEVARD, S.E.

APPROVALS: HYDROLOGY DATE INSPECTOR CONSTRUCTION



FRANK D. LOVELADY, P.E. 300 ALAMOSA ROAD NW ALBUQUERQUE, NEW MEXICO 87107 (505)345-2267

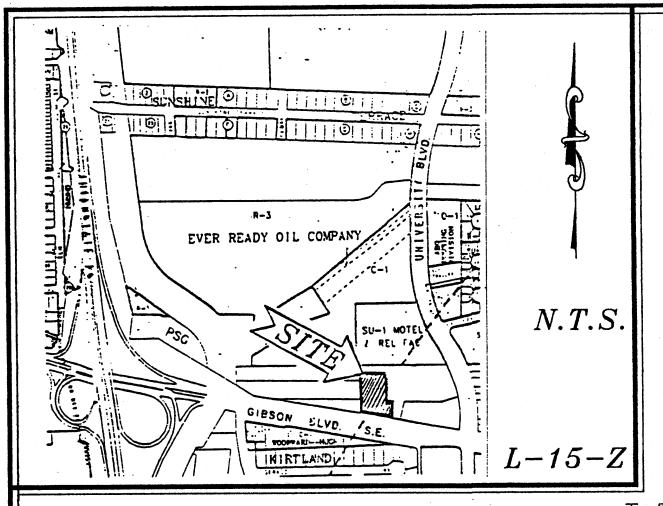
GRADING AND DRAINAGE PLAN QUALITY SUITES 1509 GIBSON BLVD. SE

SHEET

ALBUQUERQUE, NEW MEXICO 1" = 20' Date: AUG. 1997 Job No. 549

AUG 1 9 1997 HYDROLOGY SECTION





A.L.T.A. SURVEY

TRACT 2

of

GIBSON TRACTS

SITUATE WITHIN SECTION 28,

T 10 N, R 3 E, N.M.P.M.

CITY OF ALBUQUERQUE, NEW MEXICO

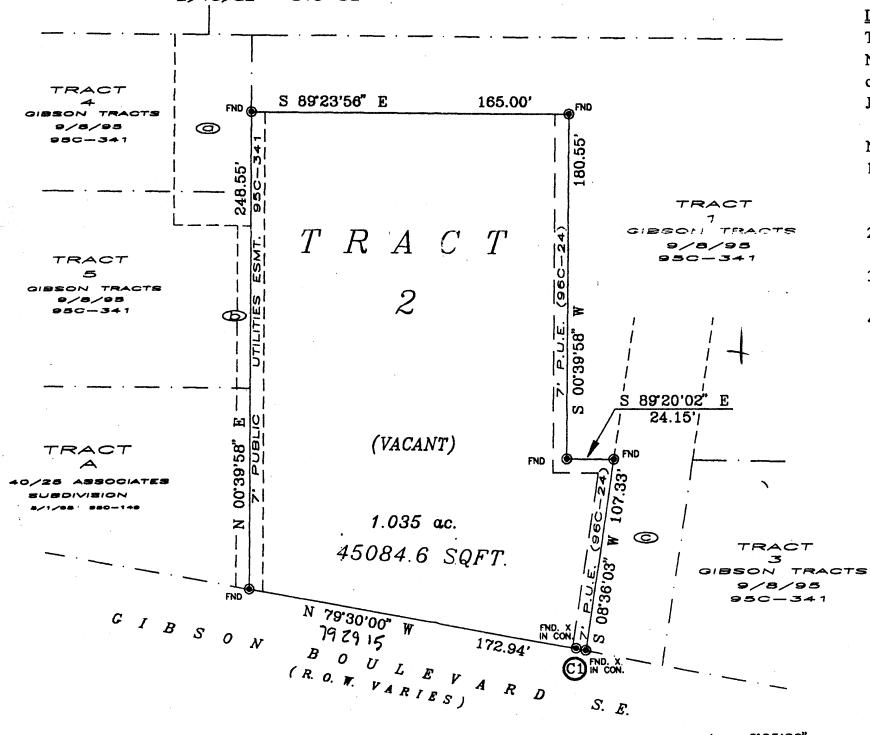
JUNE 1996

VICINITY MAP

SCALE: 1'' = 50'

PROJECT NO. 57B-02c

CREATED BY: T.S.EVANS



40' X 100' PRIVATE ACCESS, DRAINAGE PUBLIC WATER & SANITARY SEWER ESMT. 950-341

7' PUBLIC UTILITIES EASEMENT 95C-341

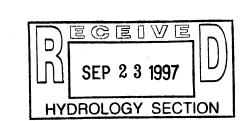
O 40' PRIVATE ACCESS, DRAINAGE, PUBLIC
WATER & SANITARY SEWER ESMT. 950-341

LEGAL DESCRIPTION:

Tract numbered Two (2) of GIBSON TRACTS, situate within Section 28, T 10 N, R 3 E, N.M.P.M., City of Albuquerque, New Mexico, as the same is shown and designated on the plat of said Addition, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on January 18, 1996, in Plat Book 96C, folio 24.

NOTES:

- 1) "Basis of Bearings" per GIBSON TRACTS, as filed January 18, 1996, in Plat Book 96C, folio 24.
- 2) Corners identified as "Found" are 1/2" rebar/cap stamped LS 6446, unless otherwise noted.
- 3) Error of closure One foot (1') in Ten thousand feet (10,000') or more along perimeter.
- 4) Subject property is located within Zone "C", designating areas of minimal flooding according to Flood Insurance Rate Map, Bernalillo County, New Mexico per Community Panel No. 350002 0035 C, effective date October 14, 1983.



SURVEYOR'S CERTIFICATE:

I, Franklin E. Wilson, licensed under the laws of the State of New Mexico, do hereby certify to, ALBUQUERQUE TITLE COMPANY, COMMONWEALTH LAND TITLE INSURANCE CO., JUAN TABO DONUTS, INC., A NEW MEXICO CORPORATION, GIBSON 25 ASSOCIATES, L.C., A MISSOURI LIMITED LIABILITY COMPANY, AUTHORIZED TO TRANSACT BUSINESS IN NEW MEXICO AS BUDGETEL INN AIRPORT, L.C.C. as provided in the Title binder No. 143861CR dated June 20, 1996.

This is to certify that this map or plat and the survey on which it is based were made (i) in accordance with "Minimum Standards Detail Requirements for ALTA/ACSM Land Surveys," jointly established and adopted by ALTA and ACSM in 1992, and includes items 1, 2, 3, 4, 7a, 8 and 9 of Table A thereof, and (ii) pursuant to the Accuracy Standards (as abouted by ALTA and ASCM and in effect on the date of this certification) for an unterline to the date of this certification) for an unterline to the date of this certification.

FRANKLIN E. WILSON - N.M.L.S. 6446

Date

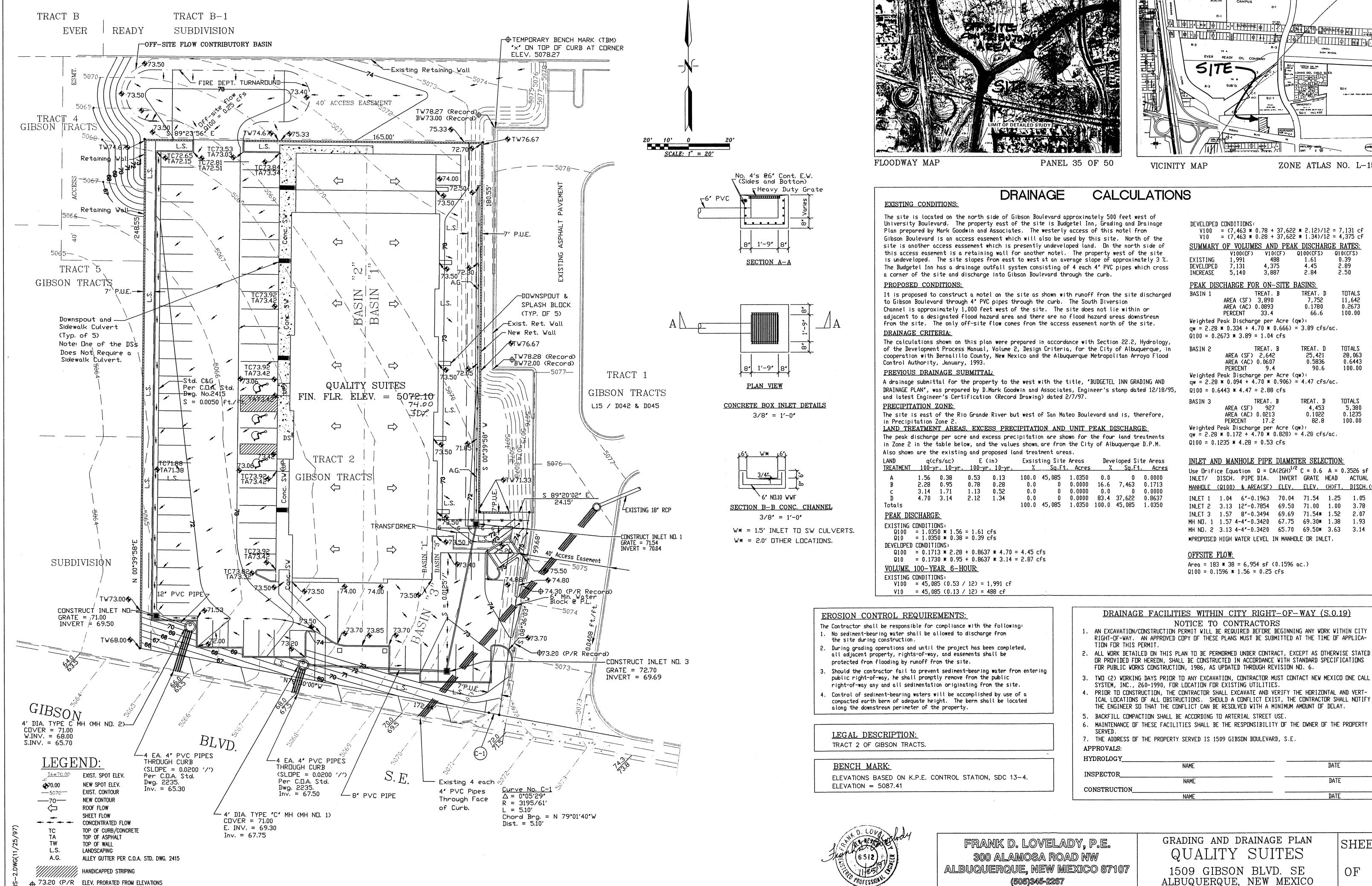
6446

ANKLIN E. WILSON - N.M.L.S. 6446 Date 7/16/9

SOUTHWEST SURVEYING CO., INC.

333 LOMAS BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87102

PHONE: (505) 247-4444 FAX: (505) 242-8069



SHOWN ON RECORD GRADING & DRAINAGE PLAN.



ZONE ATLAS NO. L-15

(N-1 FOR PRD- 800 DUNAS.

V100 = (7,463 * 0.78 + 37,622 * 2.12)/12 = 7,131 cf V10 = (7,463 * 0.28 + 37,622 * 1.34)/12 = 4,375 cf

SUMMARY OF VOLUMES AND PEAK DISCHARGE RATES: Q100(CFS) 488 1.61 0.39 4.45

PEAK DISCHARGE FOR ON-SITE

TOTALS TREAT. B 7,752 0.1780 11,642 0.2673 AREA (SF) 3,890 AREA (AC) 0.0893 100.00

2.84

qw = 2.28 * 0.334 + 4.70 * 0.666) = 3.89 cfs/ac.

Q100 = 0.2673 * 3.89 = 1.04 cfsTOTALS

25,421 28,063 0.5836 0.6443 AREA (AC) 0.0607 PERCENT 9.4 100.00 Weighted Peak Discharge per Acre (qw): qw = 2.28 * 0.094 + 4.70 * 0.906) = 4.47 cfs/ac.Q100 = 0.6443 * 4.47 = 2.88 cfs

TREAT. D TOTALS 4,453 5,380 AREA (SF) 927 0.1235 AREA (AC) 0.0213 0.1022 PERCENT 17.2 100.00

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INLET AND MANHOLE PIPE DIAMETER SELECTION:

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Area = 183 * 38 = 6,954 sf (0.1596 ac.)

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY (S.O.19)

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- 7. THE ADDRESS OF THE PROPERTY SERVED IS 1509 GIBSON BOULEVARD, S.E.



Drawn FDL

Designed FDL

Checked FDL

SHEET OF

ALBUQUERQUE, NEW MEXICO Scale: 1" = 20' Date: NOV. 1997 Job No. 549