	/
PROJECT TITLE: 74 LIN INFILL	ZONE ATLAS/DRNG. FILE #: 1619/D7
DDR #• FPC #•	WORK OBDED #.
LEGAL DESCRIPTION: 675 D/SE/	
CITY ADDRESS: 230 LOUISIANA	<u> </u>
ENGINEERING FIRM: JEFF MOGTENSEN & AS	
ADDRESS: 6010-B MIDWAY PARK BLVO	NE PHONE: 34-5-4250
OWNER: BOUNDHON LIMARY	CONTACT: SAME
ADDRESS: 230 LOUISIANA SE	_
ARCHITECT: JOSEPH LEO GODKIA	S CONTACT: JOE GODKIN
ADDRESS: 390/ INDIAN SCHOOL	- WCPHONE: 266-6058
SURVEYOR: JEFF MORTENSEN & ASSOC	CONTACT: JEFF MORTENSEN
ADDRESS: 4010-B MIDWAY PARK BLV	DNC PHONE: 345-4-250
CONTRACTOR: NOT KNOWN	CONTACT:
ADDRESS:	PHONE:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
MAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D. APPROVAL
GRADING PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION	FINAL PLAT APPROVAL
OTHER	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	CERTIFICATE OF OCCUPANCY APPROVAL
YES AUG 2 6 1992	GRADING PERMIT APPROVAL
X NO	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
GOTT TROVIDED	
en e	DRAINAGE REQUIREMENTS
	OTHER(SPECIFY)
DATE SUBMITTED: 08.26-92	
DATE SUBMITTED:	



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 13, 1989

Jeff Mortensen Jeff Mortensen & Associates 811 Dallas NE Albuquerque, NM 87110

RE: ENGINEER CERTIFICATION FOR TA-LIN (K19-D77) ENGINEER'S CERTIFICATION STATEMENT DATED 10/31/89

Dear Mr. Mortensen:

Based on the information provided on your November 2, 1989 submittal, certification for the above referenced drainage is acceptable.

If I can be of further assistance, please feel free to contact me at 768-2650.

Sincerely,

Bernie J. Montoya, C.E Engineering Assistant

BJM:jc WP+881

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E. Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER =



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 14, 1992

Jeff Mortensen Jeff Mortensen & Associates Inc. 6010-B Midway Park Blvd., NE Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR AN ADDITION TO TA LIN SUPER MARKET (K-19/D77) ENGINEER'S STAMP DATED AUGUST 26, 1992

Dear Mr. Mortensen:

Based on the information provided on your August 26, 1992 submittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

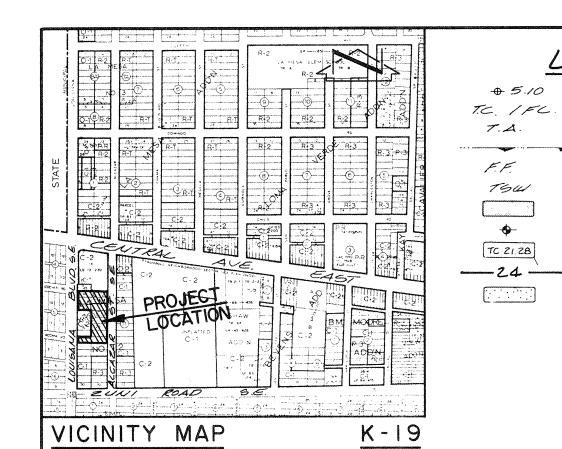
If I can be of further assistance, please feel free to contact me at 7868-2667.

Sincerely,

Bernie J. Montoya, CE Engineering Assistant

cc: Alan Martinez, Drainage Inspector - PWD

BJM:jc WP+81



SCALE : 1"= 800'

LEGEND

5 00°02'41"E

LOT E

MINOR PONDING (PUDDLE)

N 00°02'47"W

LINE ELEVATIONS

F MORTENSEN & ASSOCIATES, INC. 811 DALLAS, N.E. DALBÜQUERQUE, NM 87110

□ ENGINEERS □ TELEPHONE (505) 265-5611 □

AS-BUILT SPOT ELEVATION TOP OF CURB I FLOWLINE TOP OF ASPHALT - EXISTING FLOWLINE FINISHED FLOOR TOP OF SIDEWALK PROPOSED CONSTRUCTION PROPOSED SPOT ELEVATION

PROPOSED CONTOUR

PROPOSED CONCRETE

PROPOSED TOP OF CURB ELEVATION

7A 21.9 7422.

LEGAL DESCRIPTION

LOTS D-1 & E, BLOCK 10, LA MESA No. 2 ADDITION, ALBUQUERQUE, NEW MEXICO

PROJECT BENCHMARK

A STANDARD A.C.S. BRASS CAP SET IN CONCRETE MARKED "7-KID, 1974, A.C.S.", LOCATED IN THE NOSE OF THE EAST MEDIAN OF CENTRAL AVE. AT THE INTERSECTION OF LOUISANA BLVD. & CENTRAL AVE., ELEVATION = 5323.31 FEET (M.S.L.D.)

TEMPORARY BENCHMARK T.B.M. = TOP OF CURB NEAR N.W. CORNER OF LOT E, AS SHOWN HELEON. ELEVATION = 6319.18 FEET (M.S.L.D.)

GCALE: 1"=20'

PROPERTY ADDRESS 230 LOUISIANA BLUD. S.E.

24.39

N 00°02'41"W

150.00

LOUISIANA

- EXISTING DRIVEPAD

ALCAZAR

LOT D-I

ASPHALT

N 00° 02'41"W

EXTRUDED ASPHALT CURB INSTALLED TO CONTAIN DEVELOPED RUNOFF ON ASPHALT DRIVE

-AS BUILT RUNDOWN

STREET

764 55 10 A 2405 A 2433

PROPOSED ADDITION

EXIST. BLOG. F.F. =5325.29

EXIST. BLOG. F.F. = 5323.34

PARTY MATERIAL MATERIAL PROPERTY PROPERTY PROPERTY STREET, STR

EXISTING ASPHALT

Z496

AS BUILT RUNDONN

200.00

S.E.

DRAINAGE CERTIFICATION

The as-built elevations shown hereon demonstrate that portions of this site were constructed in substantial compliance with the approved grading and drainage plan prepared by Espey-Huston and Associates, Inc., and dated 11-15-88. The area on the east side of the proposed building addition around the dock ramp has deviated significantly from the approved plan. The as-built grades do provide for positive drainage from this area to the north, therefore, this does not appear to represent a problem. Another major departure from the approved plan is the construction of the asphalt drive connecting the parking lot to Louisiana Boulevard S.E. The approved design calls for an inverted section which was not constructed. Consequently, runoff being discharged from the contributing paved surfaces either runs along the south edge of this drive within an unpaved shoulder or accumulates in a shallow depression (puddle) located at the northwest corner of the site. The runoff carried along the southerly side of the asphalt drive discharges to Louisiana Boulevard S.E. through the existing drivepad. There is no evidence of overflow runoff from the shallow depression (puddle) into Louisiana Boulevard S.E.

This information is being presented for the purpose of obtaining a Certificate of Occupancy for the completed construction. The project, as constructed, appears to satisfy the intent of the approved grading and drainage plan in that the developed runoff is being discharged to Louisiana Boulevard S.E.

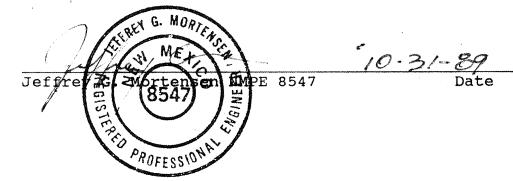


CERTIFICATION UPDATE

An extruded asphalt curb has been installed along the asphalt drive. This remedial measure will keep developed runoff from leaving the paved surfaces and eroding unpaved areas into Louisiana Boulevard S.E. This eliminates the discharge of developed runoff to the minor depression discussed above as well as the flow of developed runoff within the "unpaved shoulder".

NOV 0 2 1989

HYDROLOGY SECTION



BOULEVARD

S.E.

- NO0°02'47"W

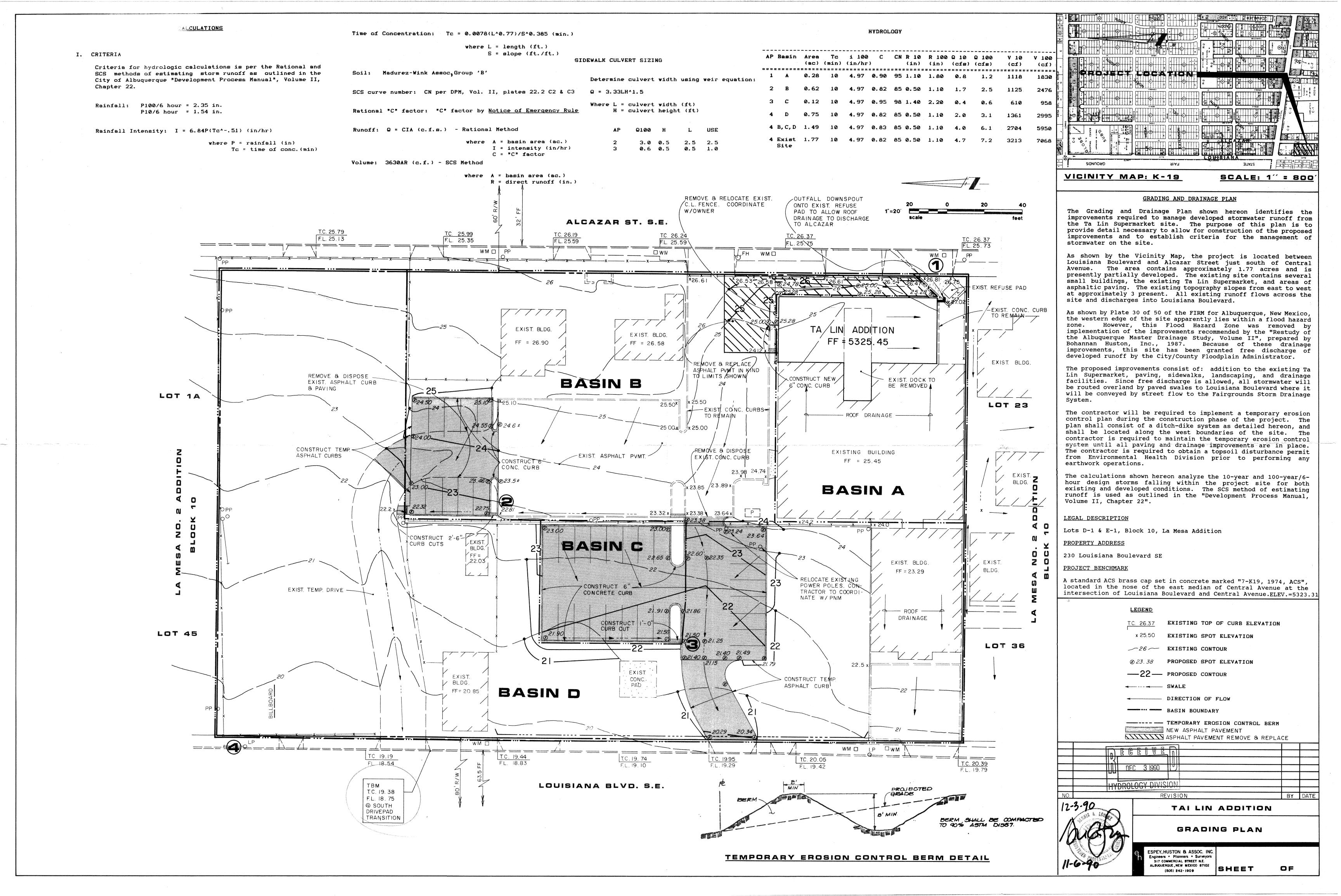
50.00'

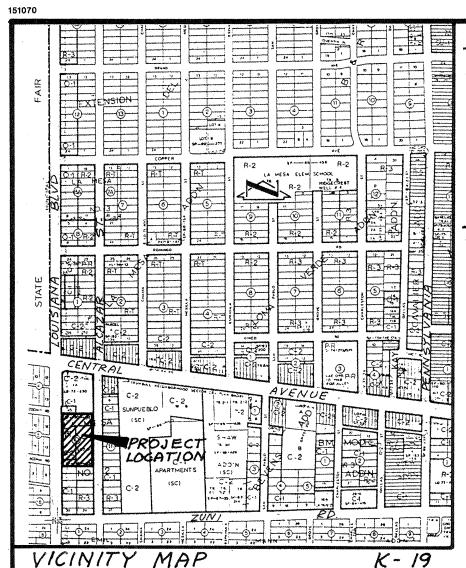
TC 21.18

DRAINAGE CERTIFICATION

TA-LIN

JOB NO. 890012 10/89 J.G.M. UPDATE FOR AC CURB 3-1989 J.G.M.





Construction Notes:

SCALE: 1"= 800' (APPROX.)

- 1. Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System, 260-1990, for location of existing
- 2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 3. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning safety and health.
- 4. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards Procedures.
- 5. If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. the engineer has undertaken no field verification of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
- 6. The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

Erosion Control Measures:

- 1. The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property. This can be achieved by constructing temporary berms at the property lines and wetting the soil to keep it from blowing.
- 2. The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
- 3. The contractor shall secure "topsoil disturbance permit" Prior to beginning construction.

PROJECT BENCH MARK A STANDARD ACS BRASS CAP SET IN CONCRETE MARKED" 7-K19,-1974, ACS," LOCATED IN THE NOSE OF THE EAST MEDIAN OF CENTRAL AVENUE AT THE INTERSECTION OF LOUISIANA BOULEVARD AND CENTRAL AVENUE. ELEY. = 5323.308 FEET (M.S.L.D.)

TOP OF CURB NEAR THE NW CORNER OF PROPERTY AS SHOWN BELOW ELEV. = 5319.18 FEET (M.S.L.D.)

LEGAL DESCRIPTION LOTS D-1 & E-1, BLOCK 10, LAMESA ADDITION

> LEGEND EXIST, SPOT ELEVATION

--- 20 --- PROPOSED CONTOUR LINE PROPOSED SPOT ELEVATION - EXIST. FLOWLINE PROPOSED FLOWLINE EXIST. DIRECTION OF RUNOFF PROPOSED DIRECTION OF RUNOFF

EXIST. ROOF DRAINAGE PROPOSED ROOF DRAINAGE PROPOSED HIGH POINT PROPOSED CONCRETE

PROPOSED ASPHALT TOP OF CURB TOP OF ASPHALT TOP OF SIDEWALK FLOWLINE

EXIST. WATER METER EXIST. POWER POLE EXIST. LIGHT POLE

DRAINAGE PLAN

The following items concerning the Ta-Lin Infill Drainage Plan are

1. Vicinity Map 2. Grading Plan 3. Calculations

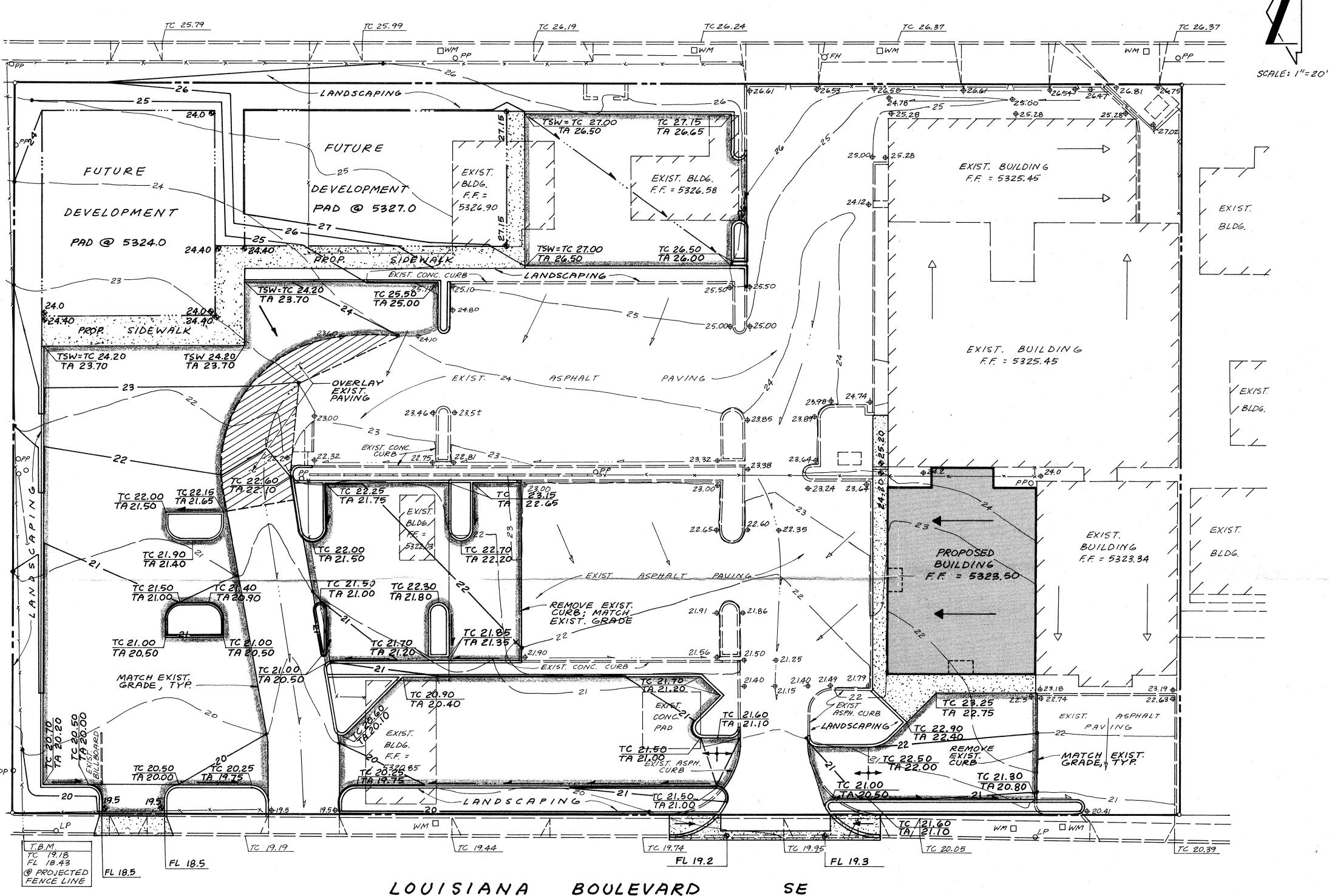
As shown by the Vicinity Map, the site is located on the east side of Louisiana Boulevard S.E., just south of the intersection with East Central Avenue. At present, the site is partially developed. The proposed development of this site consists of expanding the parking lot, constructing a building addition, and setting aside two pad sites for future development. Much of the surrounding area is also developed, making this a modification to an existing site within an infill area.

As shown by Panel 30 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps prepared for the City of Albuquerque, dated October 14, 1983, this site does not lie within a designated flood zone. Flooding is designated within Louisiana Boulevard adjacent to the site. This site does contribute runoff to that designated flood hazard zone. The 11-6-90 submittal for this site, prepared by Espey-Huston & Associates, identified that the existing flood hazard zone, as identified above, was removed through the implementation of improvements presented in the "Restudy of the Albuquerque Master Drainage Study, Volume 2" prepared by Bohannan-Huston, Inc. 1987. Furthermore, this site contributes runoff to the Fairgrounds Stormwater Relief System which has also served to reduce flooding in the neighborhood surrounding the New Mexico State Fair Property. It is based upon the removal of the floodplain, combined with the fact that this is a modification to an existing site within an infill area, that the free discharge of runoff from this site is still appropriate.

The grading plan shows 1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals, 2) the limit and character of the existing improvements, 3) the limit and character of the proposed improvements, 4) future development (pad sites) and 5) continuity between existing and proposed grades. As shown by this plan, the site is currently developed with buildings and asphalt paving. The proposed expansion of the parking lot will demolish several of the existing buildings which are not of recent vintage. The proposed development also includes a small building addition at the northwest corner of the existing building complex. Lastly, two future pad sites have been identified for future development. It is fully realized that a separate submittal will be required for the construction of a building on these two pad sites. The calculations which appear below consider the pad sites to be roof area for the purpose of this submittal. As shown by this plan, the site presently drains from east to west onto Louisiana Boulevard S.E. The proposed improvements will not alter this existing drainage pattern and will continue to

discharge the developed runoff from the site via existing and/or proposed drivepads. Because of this, the existing drainage patterns of the site will not be altered by the proposed construction.

The calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The peak discharge has been calculated by the Rational Method, while the volume of runoff generated has been calculated using the SCS Method. Both Methods have been used in accordance with the City of Albuquerque Development Process Manual, Volume II, combined with the Mayor's Emergency Rule dated January 14, 1986. As shown by these calculations, the proposed improvements will result in an increase in runoff generated by this site. There are no offsite flows impacting this property, hence calculations of offsite flows are not included. As stated above, the developed runoff generated by this site will be freely discharged to Louisiana Boulevard S.E.



STREET

SE

Ground Cover Information

From SCS Bernalillo County Soil Survey, Plate 31: MWA, Madurez Hydrologic Soil Group: B Existing Pervious CN = 61 (DPM Plate 22.2 C-2 Open Space: good condition) Developed Pervious CN = 61 (DPM Plate 22.2 C-2

CALCULATIONS

Time of Concentration/Time to Peak $T_C = 0.0078 L^{0.77}/S^{0.385}$ (Kirpich Equation)

 $T_D = T_C = 10 \text{ min.}$

 $P_6 = 2.35$ in. (DPM Plate 22.2 D-1) Rational Method

Point Rainfall

Discharge: Q = CiA where C varies $i = P_6 (6.84) T_C^{-0.51} = 4.97 in/hr$ $P_6 = 2.35$ in (DPM Plate 22.2D-1)

 $T_C = 10 \text{ min (minimum)}$ A = area, acres

SCS Method Volume: V = 3630(DRO) A

Existing Condition

ALCAZAR

Where DRO = Direct runoff in inches A = area, acres

Atotal = 100,500 sf = 2.31 Ac Roof area = 17,246 sf (0.17) Paved area = 28,972 sf (0.29)Landscaped area = 54,282 sf (0.54)C = 0.64 (Weighted average per Emergency Rule, 1/14/86) $Q_{100} = CiA = 0.64(4.97)2.31 = 7.3 cfs$

 $A_{imp} = 46,218 \text{ sf}; % impervious = 46 %$ Composite CN = 78 (DPM Plate 22.2 C-3) DRO = 0.75 in (DPM Plate 22.2 C-4) $V_{100} = 3630 (DRO)A = 6290 cf$

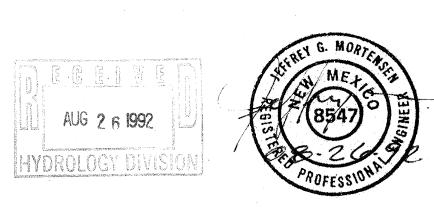
<u>Developed Condition</u>

 $A_{total} = 100,500 \text{ sf} = 2.31 \text{ Ac}$ Roof area = 25,600 sf (0.25)Paved area = 61,900 sf (0.62)Landscaped area = 13,000 sf (0.13)C = 0.85 (Weighted average per Emergency Rule, 1/14/86) $Q_{100} = CiA = 0.85(4.97)2.31 = 9.8$ cfs $A_{imp} = 87,500 \text{ sf}; % impervious = 87.1%$

Composite CN = 92 (DPM Plate 22.2 C-3) DRO = 1.5 in (DPM Plate 22.2 C-4) $V_{100} = 3630 \text{ (DRO)A} = 12,580 \text{ cf}$

Comparison

 $\Delta Q_{100} = 9.8 - 7.3 = 2.5 \text{ cfs (increase)}$ $\Delta V_{100} = 12,580 - 6,290 = 6290$ cf (increase)



JEFF MORTENSEN & ASSOCIATES, INC. 6010-B MIDWAY PARK BLVD. N.E. **ALBUQUERQUE, NEW MEXICO 87109** ENGINEERS & SURVEYORS (505)345-4250

GRADING & DRAINAGE PLAN

TA LIN INFILL

