PUBLIC WORKS/HYDROLOGY

E19/D25C1

DRAINAGE PLAN

The following items concerning the Big "O" Tires San Antonio Conceptual Drainage Plan are contained herein:

1. Vicinity Map
2. Conceptual Grading Plan

As shown by the Vicinity Map, the site is located on the south side of San Antonio Drive N.E., just east of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex. The Pino Arroyo lies to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque Public Drainage Channel. This site outfalls to that existing drainage facility.

As shown by Panel 17 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 16, 1983, this site does not lie within a designated floor hazard zone. A flood hazard zone is identified within the Pino Arroyo. The Flood Maps indicate that the 100-year flood is "confined to channel". Due to the proximity of the site to the Pino Arroyo, and the status of that channel, the free discharge (1) runoff from this site is appropriate. Further, it is consistent with the previously approved Master Drainage Plan for this site (Hydrology File No. E19/D25C). The downstream concrete rundown was improved and upgraded as part of the Zia-Lube project (E19/D25C3). The downstream improvements therefore satisfy the requirements of previously approved plans.

The Grading Plan shows: 1) existing grades indicated by contours at 1'0" intervals, 2) proposed grades indicated by contours at 1'0" intervals and spot elevations, 3) the limit, and character of the existing improvements, 4) the limit, and character of the proposed improvements, and 5) continuity between existing and proposed grades. As shown by this plan, a Big "O" Tire Store is proposed within the easterly portion of Tract C-1-C-1. At present, this portion of the site slopes from northeast to southwest. This trend of drainage will be maintained through the development of the site. The runoff generated by the proposed improvements will be discharged onto the existing paving which slopes in a westerly direction and eventually discharges to the existing concrete rundown referenced above. No detention pending is required.

Due to the fact that this Conceptual Plan is consistent with the previously approved Master Drainage plan, Calculations have not been provided with this submittal. Calculations will be submitted, however, upon submission for Building Permit approval.

LEGEND

- (D) BUILDING DESIGNATION
- EXISTING BUILDING
- PROPOSED BUILDING
- EXISTING CONTOURS
- 74 PROPOSED CONTOUR
- EXISTING FLOW LINE
- PROPOSED FLOW LINE
- ● 74.0 PROPOSED SPOT ELEVATION

SCALE: 1" = 30'

LEGAL DESCRIPTION

PORTION OF TRACT C-1-C-1, ACADEMY ACRES, UNIT 17,
ALBUQUERQUE, NEW MEXICO

PROJECT BENCHMARK

THE SYSTEM IS A STANDARD A.C.S. BRASS CAP STAMPED "3-D19-1978"
SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED AT
THE INTERSECTION OF SOUNCE EST. SAN ANTONIO DRIVE AND WYOMING BOULEVARD N.E.
ELEVATION = 5403.54 FEET (M.S.L.D.)

NOTE:
THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY.

VICINITY MAP
SCALE: 1" = 2500'

E-19

SCALE: 1" = 30'

SAN ANTONIO DRIVE N.E. (WEST BOUND)

SAN ANTONIO DRIVE (EAST BOUND)

SAN ANTONIO DRIVE N.E. (EAST BOUND)

SAN ANTONIO DRIVE N.E.

SAN ANTONIO PLACE N.E.

PINO ARROYO

MATCH LINE

TRACT C-1-C-2

TRACT C-1-C

TRACT C-1-A

TRACT C-1-B

Δ = 19°30'46"
R = 860.00
L = 292.90

Δ = 03°54'54"
R = 1692.50
L = 114.56

Δ = 27°18'54"
R = 773.06
L = 368.55

Δ = 06°10'55"
R = 886.00
L = 95.60

Δ = 56°32'20"
R = 25.00
L = 37.76

Δ = 09°38'35"
R = 574.26
L = 96.65

TRACTS C-1-C-1 AND C-1-C-2 SHALL SHARE A PRIVATE RECIPROCAL DRAINAGE EASEMENT FOR THE PURPOSE OF CONVEYING SURFACE RUNOFF TO SAN ANTONIO DR. N.E. AND THE PINO ARROYO R.O.W. THE CONVEYANCE OF STORMWATER BETWEEN THESE PARCELS SHALL BE ACCOMPLISHED VIA PAVED SURFACES AND/OR PRIVATE ONSITE DRAINAGE FACILITIES. MAINTENANCE OF THIS EASEMENT SHALL BE SHARED BY BOTH PROPERTY OWNERS.

EXISTING 10' UTILITY EASEMENT

EXISTING 40' UTILITY EASEMENT

EXISTING 40' PRIVATE SANITARY SEWER EASEMENT

EXISTING REFUSE PAD AND ENCLOSURE

EXISTING CURB

EXISTING PAVING

PROPOSED LOT LINE

NEW ASPHALT PAVING

2-SPACE BIKE RACK

EXISTING CONCRETE RUNDOWN PER E19/D25C3

(A) BIG "O" TIRE STORE 4000 SF 41'-5376.6

EXISTING GOODYEAR TIRE CENTER 6000 SF (D)

EXIST. CHEVRON STATION 1200 SF (F)

CARWASH 640 SF (C)

EXISTING TIRE LUBE 1200 SF (B)

248.81

127.50

118.00

356.42

56.67

150.00

631.22

S27°43'51"W

N62°16'29"W

N14°29'59"W

N27°43'51"E

N62°10'29"W

RECEIVED
MAR 3 1995
HYDROLOGY DIVISION

JEFF HERRINGER & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS ☐ SURVEYORS (505) 345-4250

CONCEPTUAL GRADING AND DRAINAGE PLAN
BIG "O" TIRES - SAN ANTONIO
WYOMING COMMERCIAL COMPLEX

DESIGNED BY JGM
DRAWN BY ACAD
APPROVED BY JGM

NO.	DATE	BY	REVISIONS

JOB NO. 950341
DATE 03-1995
SHEET 3 OF 5

RE 25 DATE 3-15-12 ORIG. ESD

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (NMA15-1977)

DIRECTOR 3/15/12

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO

PLAN SHEET SIZE
CHECK ONE & MARK
CROSS OUT REST

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

FILE DESC: E19/D25C1

PLANS/PLATS 3

E30 D24 C20 B16 A12 CITY OF ALBUQUERQUE C F

DRAINAGE PLAN

The following items concerning the Big "O" Tires San Antonio Conceptual Drainage Plan are contained hereon:

1. Vicinity Map
2. Conceptual Grading Plan

As shown by the Vicinity Map, the site is located on the south side of San Antonio Drive N.E., just west of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex. The Pino Arroyo lies to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque Public Drainage Channel. This site outfalls to that existing drainage facility.

As shown by Panel 17 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, this site does not lie within a designated flood hazard zone. A flood hazard zone is identified within the Pino Arroyo. The Flood Maps indicate that the 100-year flood is "confined to channel". Due to the proximity of the site to the Pino Arroyo, and the status of that channel, the free discharge of runoff from this site is appropriate. Further, it is consistent with the previously approved Master Drainage Plan for this site (Hydrology File No. E19/D25C). The downstream concrete rundown was improved and upgraded as part of the Zip-Lube project (E19/D25C3). The downstream improvements therefore satisfy the requirements of previously approved plans.

The Grading Plan shows: 1) existing grades indicated by contours at 1'0" intervals, 2) proposed grades indicated by contours at 1'0" intervals and spot elevations, 3) the limit and character of the existing improvements, 4) the limit and character of the proposed improvements, and 5) continuity between existing and proposed grades. As shown by this plan, a Big "O" Tire Store is proposed within the easterly portion of Tract C-1-C-1. At present, this portion of the site slopes from northeast to southwest. This trend of drainage will be maintained through the re-alignment of the site. The runoff generated by the proposed improvements will be discharged onto the existing paving which slopes in a westerly direction and eventually discharges to the existing concrete rundown referenced above. No detention ponding is required.

Due to the fact that this Conceptual Plan is consistent with the previously approved Master Drainage plan, Calculations have not been provided with this submittal. Calculations will be submitted, however, upon submission for Building Permit approval.

LEGEND

- (D) BUILDING DESIGNATION
- EXISTING BUILDING
- PROPOSED BUILDING
- EXISTING CONTOURS
- —74— PROPOSED CONTOUR
- EXISTING FLOW LINE
- PROPOSED FLOW LINE
- 74.0 PROPOSED SPOT ELEVATION

SCALE: 1" = 30'

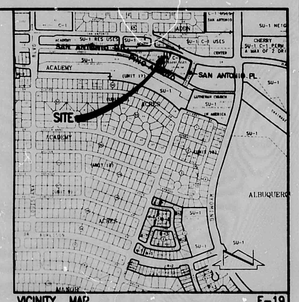
LEGAL DESCRIPTION

PORTION OF TRACT C-1-C-1, ACADEMY ACRES, UNIT 1, ALBUQUERQUE, NEW MEXICO.

PROJECT BENCHMARK

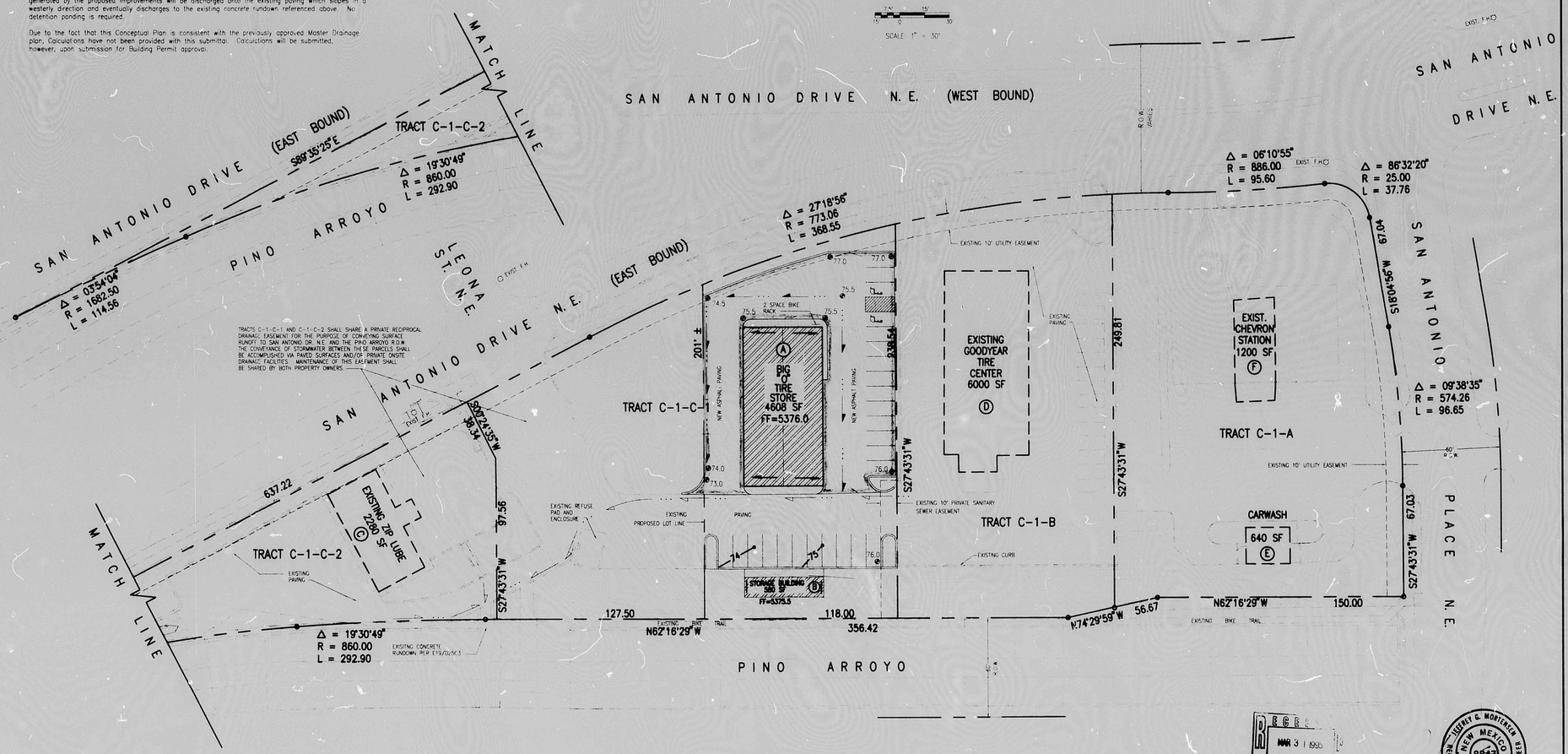
THE STATION IS A STANDARD A.C.S. BRASS CAP STAMPED "6-D19-1978" SET ON TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED AT THE NORTHWEST CORNER OF SAN ANTONIO DRIVE AND WYOMING BOULEVARD N.E. ELEVATION = 5403.54 FEET (M.S.L.D.)

NOTE:
THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY.



VICINITY MAP
SCALE: 1" = 1500'

E-19



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MAR 3 1995
HYDROLOGY DIVISION

LIBERTY & MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
5-3-95

JMM	JEFF MORTENSEN & ASSOCIATES, INC. 6501-B MIDWAY PARK BLVD. N.E. ALBUQUERQUE, NEW MEXICO 87109 ENGINEERS ☐ SURVEYORS (505) 345-4250

CONCEPTUAL GRADING AND DRAINAGE PLAN

BIG "O" TIRES - SAN ANTONIO WYOMING COMMERCIAL COMPLEX

DESIGNED BY	JGM
DRAWN BY	ACAD
APPROVED BY	JGM

NO.	DATE	BY	REVISIONS

JOB NO.	950341
DATE	03-1995
SHEET	3 OF 5

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 25 DATE 3-15-02 OPER

CITY OF ALBUQUERQUE

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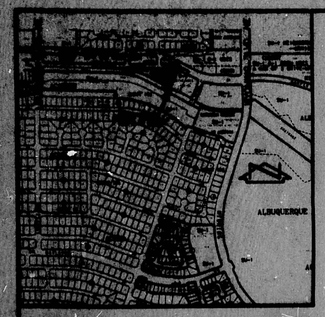
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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 8/10/02 And

D24 C20 B16 A12 CITY OF ALBUQUERQUE C D



VICINITY MAP E-19
SCALE 1" = 750'

LEGAL DESCRIPTION

TRACT C-1-C-1-B, ACADEMY ACRES, UNIT 17

PROJECT BENCHMARK

A.C.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 12-E19" GROOVED TO THE TOP OF THE CONCRETE CURB, AT THE WEST NORTHWEST CURB RETURN OF THE INTERSECTION OF WYOMING BLVD. N.E. AND SAN ANTONIO DR. N.E.
ELEVATION = 5404.28' (M.S.L.D.)

T.B.M.

FOUND " + " CHISELED ON TOP OF CURB ● NE CORNER OF SITE
ELEVATION = 5378.21' (M.S.L.D.)

LEGEND

TC	TOP OF CURB
FL	FLOWLINE
TCO	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
TA	TOP OF ASPHALT
EA	EDGE OF ASPHALT
TW	TOP OF WALL
BW	BOTTOM OF WALL
W.M.	WATER METER
P.P.	POWER POLE
W.V.	WATER VALVE
F.H.	FIRE HYDRANT
C.O.	CLEANOUT
SAS	SANITARY SEWER LINE
E	POWER LINE
T	TELEPHONE LINE
L.P.	LIGHT POLE
G.M.	GAS METER
G.P.	GUARD POST
W.C.	WHEELCHAIR
CONC.	CONCRETE
S/W	SIDEWALK
○	SMALL TREE
⬭	BOULDER
+ 72.40	EXISTING SPOT ELEVATION
—— 70 ——	EXISTING CONTOURS
———	EXISTING FLOWLINE
●	PROPOSED SPOT ELEVATION
—70—	PROPOSED CONTOUR
←●●●	PROPOSED FLOWLINE
▭	PROPOSED CONCRETE
▭	PROPOSED ASPHALT
←	ROOF DRAINAGE

RECEIVED
AUG 15 1995
HYDROLOGY

DRAINAGE PLAN

The following items concerning the Big "O" Tires San Antonio Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located on the south side of San Antonio Drive N.E., just west of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex, and is located to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque Public Drainage Channel. The site outfalls to that existing drainage facility.

As shown by Panel 17 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps (published by FEMA for the City of Albuquerque, New Mexico, dated October 16, 1981), the site does not lie within a designated flood hazard zone. A hydrological study of the Pino Arroyo, by Bohannan-Huston, Inc., the flood level remains that the 100-year flood is contained by dikes to the proximity of the site. Due to the proximity of the site to the Pino Arroyo, and the nature of that channel, the free discharge of runoff from this site is appropriate. Further, it is consistent with the Drainage Control Master Drainage Plan for the site (Drainage File No. D10/D006). The Grading Plan for this site was approved by the City Engineer as part of the DC-Lube project (s10/D062). As downstream improvements have satisfied the requirements of previously approved plans.

The Grading Plan shows: 1) existing grades indicated at 1' contour intervals, 2) proposed grades indicated by spot elevations and flow lines, and 3) the location and character of the existing improvements, 4) the limit of existing paved surfaces, 5) proposed improvements, and 6) certain utilities. The proposed grades, as shown by the plan, will direct the flow of runoff from the site. The portion of Tract C-1-C-1-B, which is the location of the site slopes from northeast to southwest. The trend of drainage is to the southwest through the development. As site runoff generated by the subject development is collected and routed onto the adjacent property, it is ultimately directed in a southerly direction and eventually discharged to the existing concrete rundown referenced above. No detention ponding is required.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Section of Section 22.2, the City of the Development Process Manual, Volume 2, Design Criteria, has been used to quantify the peak rate of discharge and volume of runoff generated by the basin for the developed condition. An increase of 1430 cf in runoff volume and 0.5 cfs in the peak discharge rate is expected with this development.

CALCULATIONS

Site Characteristics

1. Precipitation Zone = 3
2. $P_{6,100} = P_{360} = 2.60$ in.
3. Total Area (A_T) = [illegible] ac/26,215 sf
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
C	20,905/0.48	80.0
D	5,310/0.12	20.0

5. Developed Land Treatment

Treatment	Area (sf/ac)	%
B	1,575/0.04	6.7
C	2,725/0.06	10.0
D	21,915/0.50	83.3

Existing Condition

1. Volume

$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$

$E_W = (1.29(0.48)+2.36(0.12))/0.60 = 1.50$ in.

$V_{100} = (E_W/12)A_T$

$V_{100} = (1.50/12)0.60 = 0.0750$ ac.ft. = 3,270 cf

2. Peak Discharge

$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = 3.45(0.48)+5.02(0.12) = 2.3$ cfs

Developed Condition

1. Volume

$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$

$E_W = (0.92(0.04)+1.29(0.06)+2.36(0.50))/0.60 = 2.16$ in

$V_{100} = (E_W/12)A_T$

$V_{100} = (2.16/12)0.60 = 0.1079$ ac.ft. = 4,700 cf

2. Peak Discharge

$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = 2.60(0.04)+3.45(0.06)+5.02(0.50) = 2.8$ cfs

Comparison

1. $\Delta V_{100} = 4700 - 3270 = 1430$ cf (increase)
2. $\Delta Q_{100} = 2.8 - 2.3 = 0.5$ cfs (increase)

SCALE: 1" = 20'

Δ = 14°48'33"
R = 773.06'
L = 200.04'
CH. BEARING = S 82°10'35" E
CH. DISTANCE = 199.48'

S 89°35'25" E 85.00'

EASTBOUND SAN ANTONIO DRIVE N.E.

N 00°24'35" E 324.30'

S 27°43'31" E 326.30'

N 87°16'26" W 224.30'

EXISTING ZIP LUBE STORE FF=5372.05

EXISTING GOODYEAR TIRE STORE FF = 5377.50

EXISTING 10' UTILITY EASEMENT

NEATLY SAWCUT, REMOVE, & DISPOSE OF EXISTING ASPHALT PAVEMENT

PROPOSED SIGN

STANDARD CURB AND GUTTER

EXTRUDED CONC. CURB

MATCH EXIST. CURB

MATCH EXIST. CONCRETE PARKING

MATCH EXIST. CONCRETE CURB AND SIDEWALK

PATCH, EXIST. ASPHALT PAVING

STORAGE BUILDING FF=5378.50

HYDRO-MULCH EXISTING SLOPE PER LANDSCAPING PLANS

PINO ARROYO DRAINAGE AND UTILITY R.O.W. (80' R.O.W.)

EDGE OF CONCRETE CHANNEL

TOP OF SLOPE CONCRETE CHANNEL

TRACT 2-1-B ASSESSMENT ASSOC, UNIT 17 05-18-1960, BOOK-131

EXISTING 10' X 83' PRIVATE SANITARY SEWER EASEMENT

SANITARY SEWER M.H. RIM=5366.74 INV=5360.54

SAS 6" PVC

PLAN SHOT TWICE
CHECK OF SIZE
CHECK IN TAKE

CITY OF ALBUQUERQUE
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REEL 25 DATE 3-15-02 OPER. ESP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (NBS15-1977)

DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO

REGISTERED PROFESSIONAL ENGINEER
JEFFREY G. MORTENSEN
NEW MEXICO
8547
08-11-95

JEFF MORTENSEN & ASSOCIATES, INC.
6565-B MIDWAY PARK BLVD. NE
ALBUQUERQUE ☐ NEW MEXICO 87109
ENGINEERS ☐ SURVEYORS (505) 345-4250

GRADING AND DRAINAGE PLAN
BIG "O" TIRES - SAN ANTONIO
WYOMING COMMERCIAL COMPLEX

DESIGNED BY JGM/GRB
DRAWN BY C.JH/TNT
APPROVED BY JGM

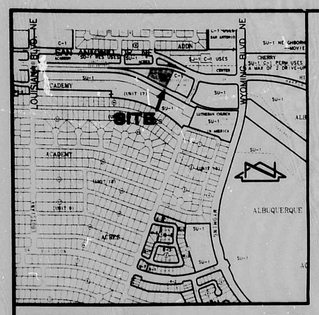
NO.	DATE	BY	REVISIONS

JOB NO. 950345
DATE 07-1995
SHEET 4 OF 6

C:\DATA\ACADWIN\950345\950345D Fri Aug 11 11:46:23 1995

B 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C



VICINITY MAP E-19

SCALE: 1" = 750'

LEGAL DESCRIPTION

TRACT C-1-C-1-B, ACADEMY ACRES, UNIT 17

PROJECT BENCHMARK

A.C.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 12-E19" EPOXIED TO THE TOP OF THE CONCRETE CURB, AT THE WEST NORTHWEST CURB RETURN OF THE INTERSECTION OF WYOMING BLVD. N.E. AND SAN ANTONIO DR. N.E.
ELEVATION = 5404.28' (M.S.L.D.)

T.B.M.

FOUND " + " CHISELED ON TOP OF CURB @ NE CORNER OF SITE
ELEVATION = 5378.21' (M.S.L.D.)

LEGEND

TC	TOP OF CURB
FL	FLOWLINE
TCO	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
TA	TOP OF ASPHALT
EA	EDGE OF ASPHALT
TW	TOP OF WALL
BW	BOTTOM OF WALL
W.M.	WATER METER
P.P.	POWER POLE
W.V.	WATER VALVE
F.H.	FIRE HYDRANT
C.O.	CLEANOUT
SAS	SANITARY SEWER LINE
E	POWER LINE
T	TELEPHONE LINE
L.P.	LIGHT POLE
G.M.	GAS METER
G.P.	GUARD POST
W.C.	WHEELCHAIR
CONC.	CONCRETE
S/W	SIDEWALK
	SMALL TREE
	BOULDER
72.40	EXISTING SPOT ELEVATION
70	EXISTING CONTOURS
	EXISTING FLOWLINE
	PROPOSED SPOT ELEVATION
70	PROPOSED CONTOUR
	PROPOSED FLOWLINE
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	ROOF DRAINAGE

DRAINAGE PLAN

The following items concerning the Big "O" Tires San Antonio Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located on the south is le of San Antonio Drive N.E., just west of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex. The Pino Arroyo lies to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque Public Drainage Channel. This site outfalls to that existing drainage facility.

As shown by Panel 17 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, this site does not lie within a designated flood hazard zone. A flood hazard zone is identified within the Pino Arroyo. The flood Maps indicate that the 100-year flood is "confined to channel". Due to the proximity of the site to the Pino Arroyo, and the status of that channel, the free discharge of runoff from this site is appropriate. Further, it is consistent with the previously approved Master Drainage Plan for this site (Hydrology File No. E19/D250). The downstream concrete rundown was improved and upgraded as part of the Zip-Lube project (E19/D253). The downstream improvements therefore satisfy the requirements of previously approved plans.

The Grading Plan shows: 1) existing grades indicated by contours at 1'0" intervals, 2) proposed grades indicated by contours at 1'0" intervals and spot elevations, 3) the limit and character of the existing improvements, 4) the limit and character of the proposed improvements, and 5) continuity between existing and proposed grades. As shown by this plan, a Big "O" Tire Store is proposed within the easterly portion of Tract C-1-C-1. At present, this portion of the site slopes from northeast to southwest. This trend of drainage will be maintained through the development of the site. The runoff generated by the proposed improvements will be discharged onto the existing paving which slopes in a westerly direction and eventually discharges to the existing concrete rundown referenced above. No detention ponding is required.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, an increase of 1430 cf in runoff volume and 0.5 cfs in the peak discharge rate is expected with this development.

CALCULATIONS

Site Characteristics

1. Precipitation Zone = 3
2. $P_{6,100}$ / P_{360} = 2.60 in.
3. Total Area (A_T) = 36,26,215 sf
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
C	20,905/0.48	80.0
D	5,310/0.12	20.0

5. Developed Land Treatment

Treatment	Area (sf/ac)	%
B	1,575/0.04	6.7
C	2,725/0.06	10.0
D	21,915/0.50	83.3

Existing Condition

1. Volume

$E_W = (E_AA + E_BB + E_CC + E_DD)/A_T$

$E_W = (1.29(0.48)+2.36(0.12))/0.60 = 1.50$ in.

$V_{100} = (E_W/12)A_T$

$V_{100} = (1.50/12)0.60 = 0.0750$ ac.ft. = 3,270 cf

2. Peak Discharge

$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = 3.45(0.48)+5.02(0.12) = 2.3$ cfs

Developed Condition

1. Volume

$E_W = (E_AA + E_BB + E_CC + E_DD)/A_T$

$E_W = (1.92(0.04)+1.29(0.06)+2.36(0.50))/0.60 = 2.16$ in

$V_{100} = (E_W/12)A_T$

$V_{100} = (2.16/12)0.60 = 0.1079$ ac.ft. = 4,700 cf

2. Peak Discharge

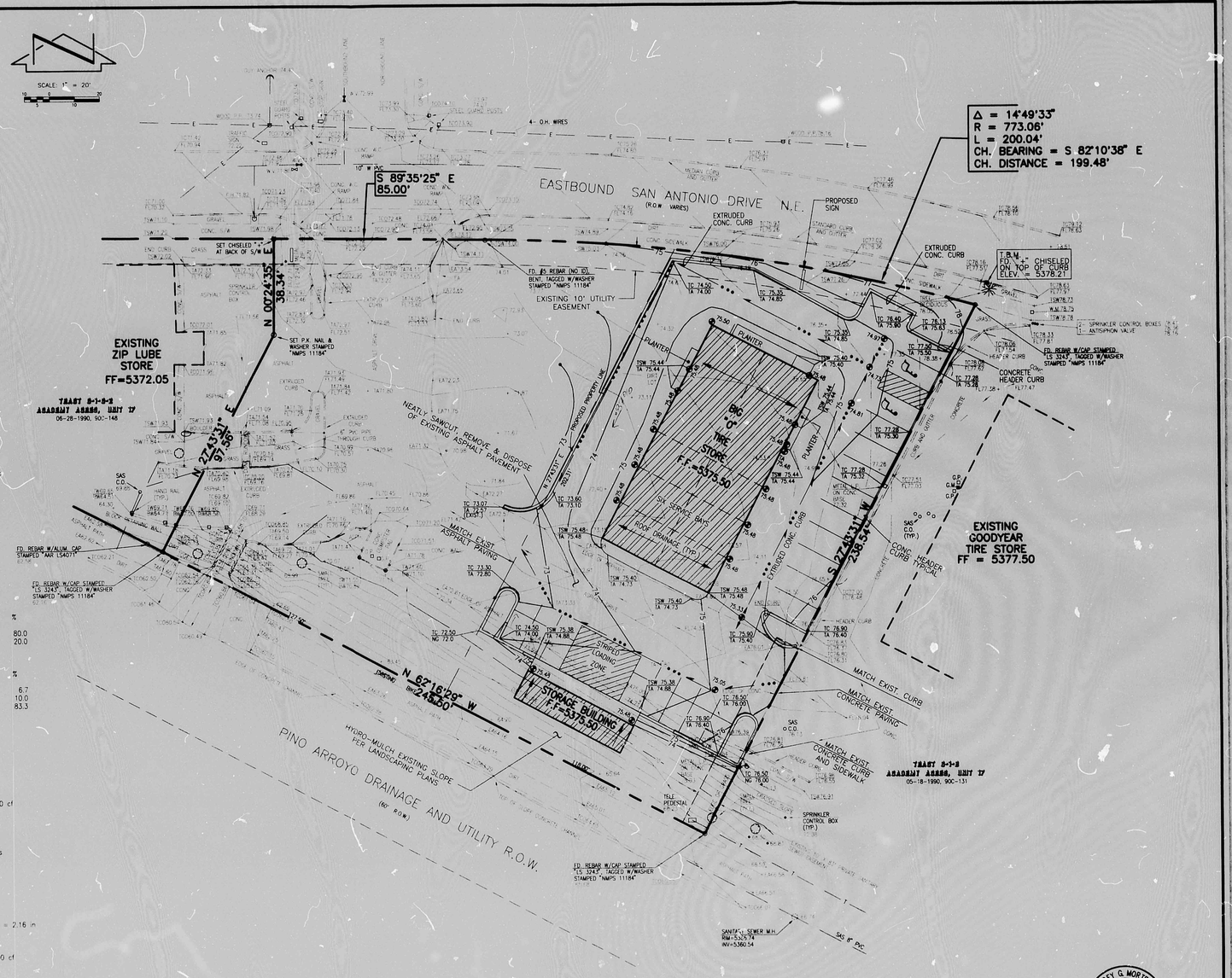
$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = 2.63(0.04)+3.45(0.06)+5.02(0.50) = 2.8$ cfs

Comparison

1. ΔV_{100} = 4700 - 3270 = 1430 cf (increase)
2. ΔQ_{100} = 2.8 - 2.3 = 0.5 cfs (increase)

SCALE: 1" = 20'



JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
08-17-95

jma JEFF MORTENSEN & ASSOCIATES, INC.
6020-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS (505) 345-4250 SURVEYORS

GRADING AND DRAINAGE PLAN
BIG "O" TIRES - SAN ANTONIO
WYOMING COMMERCIAL COMPLEX

DESIGNED BY	JGM/GRB
DRAWN BY	CJH/TNT
APPROVED BY	JGM

NO.	DATE	BY	REVISIONS

JOB NO.	950345
DATE	07-1995
SHEET	4 OF 6

C:\DATA\ACADDWG\950345\950345D F: Aug 11 11:46:23 1995

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 25 DATE 3.15.02 OF 15 P.

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11.5.02

NOTARY PUBLIC
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Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 8/07/02 Rmd

D24 C20 B16 A12 | CITY OF ALBUQERQUE C D

PUBLIC WORKS/HYDROLOGY

2 OF 2

E19/D25C1



VICINITY MAP

SCALE: 1" = 750'

E-19

LEGAL DESCRIPTION

TRACT C-1-C-1-B, ACADEMY ACRES, UNIT 17

PROJECT BENCHMARK

A.C.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 12-E19" EPOXIED TO THE TOP OF THE CONCRETE CURB, AT THE WEST NORTHWEST CURB RETURN OF THE INTERSECTION OF WYOMING BLVD. N.E. AND SAN ANTONIO DR. N.E.
ELEVATION = 5404.28' (M.S.L.D.)

T.B.M.

FOUND " + " CHISELED ON TOP OF CURB ● NE CORNER OF SITE
ELEVATION = 5378.21' (M.S.L.D.)

LEGEND

TC	TOP OF CURB
FL	FLOWLINE
TCO	TOP OF CONCRETE
TS.W	TOP OF SIDEWALK
TA	TOP OF ASPHALT
EA	EDGE OF ASPHALT
TW	TOP OF WALL
BW	BOTTOM OF WALL
W.M.	WATER METER
P.P.	POWER POLE
W.V.	WATER VALVE
F.H.	FIRE HYDRANT
C.O.	CLEANOUT
SAS	SANITARY SEWER LINE
E	POWER LINE
T	TELEPHONE LINE
L.P.	LIGHT POLE
G.M.	GAS METER
G.P.	GUARD POST
W.C.	WHEELCHAIR
CONC.	CONCRETE
S/W	SIDEWALK
	SMALL TREE
	BOULDER
+ 72.40	EXISTING SPOT ELEVATION
—— 70 ——	EXISTING CONTOURS
- - - -	EXISTING FLOWLINE
	PROPOSED SPOT ELEVATION
——70——	PROPOSED CONTOUR
——••——	PROPOSED FLOWLINE
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	ROOF DRAINAGE
TC73.56	AS-BUILT TOP OF CURB ⚠
TA72.88	AS-BUILT TOP OF ASPHALT ⚠
TSW74.32	AS-BUILT TOP OF SIDEWALK ⚠
72.38	AS-BUILT SPOT ELEVATION ⚠
✓	AS-BUILT ELEVATION=AS-DESIGNED ELEVATION ⚠

DRAINAGE PLAN

The following items concerning the Big "O" Tires San Antonio Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located on the south side of San Antonio Drive N.E., just west of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex. The Pino Arroyo lies to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque Public Drainage Channel. The site outfalls to that existing drainage facility.

As shown by Panel 17 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, this site does not lie within a designated flood hazard zone. A flood hazard zone is identified within the Pino Arroyo. The Flood Maps indicate that the 100-year flood is confined to channel. Due to the proximity of the site to the Pino Arroyo, and the status of that channel, the free discharge of runoff from this site is appropriate. Further, it is consistent with the previously approved Master Drainage Plan for this site (Hydrology File No. E19/D25c). The downstream concrete channel was improved and upgraded as part of the Zip-Lube project (E19/D25c). The downstream improvements therefore satisfy the requirements of previously approved plans.

The Grading Plan shows: 1) existing grades indicated by contours at 1'0" intervals, 2) proposed grades indicated by contours at 1'0" intervals and spot elevations, 3) the limit and character of the existing improvements, 4) the limit and character of the proposed improvements, and 5) continuity between existing and proposed grades. As shown by this plan, a Big "O" Tire Store is proposed within the easterly portion of tract C-1-C-1-B. At present, this portion of the site slopes from northeast to southwest. This trend of drainage will be maintained through the development of the site. The runoff generated by the proposed improvements will be discharged onto the existing paving which slopes in a westerly direction and eventually discharges to the existing concrete rundown referenced above. No detention ponding is required.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Chapter 22 of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, an increase of 1430 cf in runoff volume and 0.5 cfs in the peak discharge rate is expected with this development.

CALCULATIONS

Site Characteristics

1. Precipitation Zone = 3
2. $P_{6,100} = P_{360} = 2.60$ in.
3. Total Area (A_T) = 0.00 ac/26,215 sf
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
C	20,905/0.48	80.0
D	5,310/0.12	20.0

5. Developed Land Treatment

Treatment	Area (sf/ac)	%
B	1,575/0.04	6.7
C	2,725/0.06	10.0
D	21,915/0.50	83.3

Existing Condition

1. Volume

$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

$E_W = (1.29(0.48) + 2.36(0.12))/0.60 = 1.50$ in.

$V_{100} = (E_W/12)A_T$

$V_{100} = (1.50/12)0.60 = 0.0750$ ac.ft. = 3,270 cf

2. Peak Discharge

$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = 3.45(0.48) + 5.02(0.12) = 2.3$ cfs

Developed Condition

1. Volume

$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

$E_W = (0.92(0.04) + 1.29(0.06) + 2.36(0.50))/0.60 = 2.16$ in

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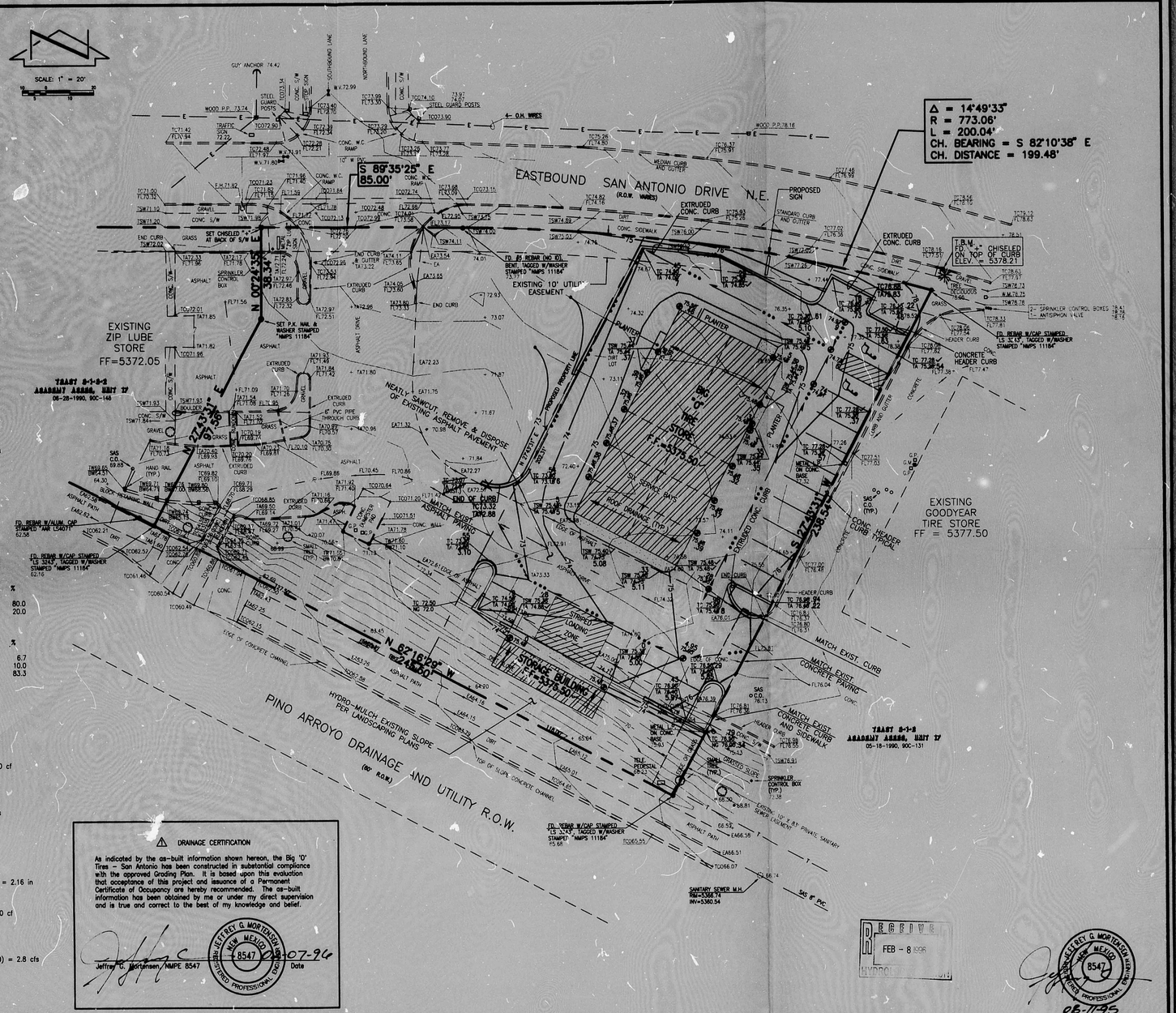
$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = 2.60(0.04) + 5.40(0.06) + 5.02(0.50) = 2.8$ cfs

Comparison

1. $*V_{100} = 4700 - 3270 = 1430$ cf (increase)
2. $*Q_{100} = 2.8 - 2.3 = 0.5$ cfs (increase)

SCALE: 1" = 20'



DRAINAGE CERTIFICATION

As indicated by the as-built information shown hereon, the Big "O" Tires - San Antonio has been constructed in substantial compliance with the approved Grading Plan. It is based upon this evaluation that acceptance of this project and issuance of a Permanent Certificate of Occupancy are hereby recommended. The as-built information has been obtained by me or under my direct supervision and is true and correct to the best of my knowledge and belief.

Jeffrey G. Mortensen, NMPE 8547 — Date 07-96

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

RECEIVED FEB - 8 1996 HYDROLOGY SECTION

OB-1195

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

jmm — JEFF MORTENSEN & ASSOCIATES, INC. — 4808-2 RIDGAT PARK BLVD. N.E. — ALBUQUERQUE ☐ NEW MEXICO 87109 — ENGINEERS ☐ SURVEYORS (505) 345-4250

GRADING AND DRAINAGE PLAN
BIG "O" TIRES - SAN ANTONIO
WYOMING COMMERCIAL COMPLEX

DESIGNED BY J.G.M./G.R.B.
DRAWN BY E.M.S.
APPROVED BY J.G.M.

NO	DATE	BY	REVISIONS
⚠	02/96	G.R.B.	AS-BUILT & CERTIFY

JOB NO 950345
DATE 07-1995
SHEET 4 OF 6

C:\DATA\WORKING\950345D.dwg Wed Feb 7 10:20:24 1996 -EMS

PLAN SENT TWICE ONCE AT LARGE ONCE ON TAPE

CITY OF ALBUQUERQUE
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R-25 DATE 3-15-02 OSP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11/15/02

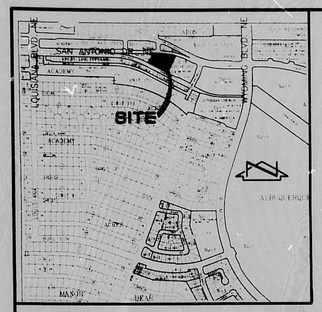
NOTARY PUBLIC

OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO

My Commission Expires 4/16/06

24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C



VICINITY MAP E-19

SCALE: 1" = 750'

LEGAL DESCRIPTION

TRACT C-1-C-1-B, ACADEMY ACRES, UNIT 17

PROJECT BENCHMARK

A.C.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 12-E19" EPOXIED TO THE TOP OF THE CONCRETE CURB, AT THE WEST NORTHWEST CURB RETURN OF THE INTERSECTION OF WYOMING BLVD. N.E. AND SAN ANTONIO DR. N.E.
ELEVATION = 5404.28' (M.S.L.D.)

T.B.M.

FOUND " + " CHISELED ON TOP OF CURB @ NE CORNER OF SITE
ELEVATION = 5378.21' (M.S.L.D.)

LEGEND

TC	TOP OF CURB
FL	FLOWLINE
TCO	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
TA	TOP OF ASPHALT
EA	EDGE OF ASPHALT
TW	TOP OF WALL
BW	BOTTOM OF WALL
W.M	WATER METER
P.P.	POWER POLE
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W.C.	WHEELCHAIR
CONC.	CONCRETE
S/W	SIDEWALK
	SMALL TREE
	BOULDER
72.40	EXISTING SPOT ELEVATION
	EXISTING CONTOURS
	EXISTING FLOWLINE
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	PROPOSED FLOWLINE
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	ROOF DRAINAGE
TC 73.32	AS-BUILT TOP OF CURB ⚠
TA 72.88	AS-BUILT TOP OF ASPHALT ⚠
TSW 74.22	AS-BUILT TOP OF SIDEWALK ⚠
FF 75.54	AS-BUILT SPOT ELEVATION ⚠
✓	AS-BUILT ELEVATION=AS-DESIGNED ELEVATION ⚠

DRAINAGE PLAN

The following items concerning the Big "O" Tires San Antonio Drainage Plan are contained hereon:

1. Vicinity Map
2. Graphic Plan
3. Calculations

As shown by the vicinity Map, the site is located on the south side of San Antonio Drive N.E., just west of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex. The Pino Arroyo lies to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque Public Drainage Channel. The site outfalls to that existing drainage facility.

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The Grading Plan shows: 1) existing grades indicated by contours at 1'-0" intervals, 2) proposed grades indicated by contours at 1'-0" intervals and spot elevations, 3) the limit and character of the existing improvements, 4) the limit and character of the proposed improvements, and 5) continuity between existing and proposed grades. As shown by this plan, a Big "O" Tire Store is proposed within the easterly portion of Tract C-1-C-1. At present, this portion of the site slopes from northeast to southwest. This trend of drainage will be maintained through the development of the site. The runoff generated by the proposed improvements will be discharged onto the existing paving which slopes in a westerly direction and eventually discharges to the existing concrete rundown referenced above. No detention ponding is required.

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CALCULATIONS

Site Characteristics

1. Precipitation Zone = 3
2. $P_{6,100} = P_{360} = 2.60$ in
3. Total Area (A_T) = 0.60 ac/26,215 sf
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
C	20,905/0.48	80.0
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5. Developed Land Treatment

Treatment	Area (sf/ac)	%
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1. Volume

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$E_W = (1.29(0.48) + .36(0.12))/0.60 = 1.50$ in

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$V_{100} = (1.50/12)0.60 = 0.0750$ ac-ft. = 3,270 cf

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$Q_p = Q_{100} = 2.60(0.04) + 3.45(0.06) + 5.02(0.50) = 2.8$ cfs

Comparison

1. $\Delta V_{100} = 4700 - 3270 = 430$ cf (increase)
2. $\Delta Q_{100} = 2.8 - 2.3 = 0.5$ cfs (increase)

SCALE: 1" = 20'

4- O.H. WIRES

S 89°35'25" E 85.00'

Δ = 14°49'33"
R = 773.06'
L = 200.04'
CH. BEARING = S 82°10'38" E
CH. DISTANCE = 199.48'

EASTBOUND SAN ANTONIO DRIVE N.E. (R.O.W. VARIES)

PROPOSED SIGN

EXTRUDED CONC. CURB

B.M. = "+" CHISELED ELEV. = 5378.21

SET CHISELED "+" AT BACK OF S/W

FD #5 REBAR (NO ID) BENT, TAGGED W/WASHER STAMPED "NMPS 11154"

EXISTING 10' UTILITY EASEMENT

N 00°24'35" E 38.34'

SET P.K. NAIL & WASHER STAMPED "NMPS 11154"

EXISTING ZIP-LUBE STORE FF=5372.05

TRACT C-1-C-2 ACADEMY ACRES, UNIT 17 06-28-1990, 90C-148

N 27°43'31" E 97.58'

NEATLY SAWCUT, REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT

EXISTING 10' UTILITY EASEMENT

PLANTER

BIG "O" TIRE STORE F.F.=5375.50

TC 76.88 TA 75.83

CONCRETE HEADER CURB

FD REBAR & CAP STAMPED "LS 12147" A.A.R.

END OF CURB TC 73.32 TA 72.88

MATCH EXIST. ASPHALT GRADE

FD REBAR W/ALUM. CAP STAMPED "AAR LS 8401"

FD REBAR W/CAP STAMPED "LS 12147" TAGGED W/WASHER STAMPED "NMPS 11154"

S 27°43'31" W 238.54'

EXISTING GOODYEAR TIRE STORE F.F.=5377.60

CONC. FILLED CURB

MATCH EXIST. CURB

MATCH EXIST. CONCRETE PAVING

MATCH EXIST. CONCRETE PAVING AND S/W

N 62°16'29" W 248.50'

STORAGE BUILDING F.F.=5375.50

METAL CANOPY ON CONC. BASE

TELE PEDESTAL

SMALL TREE (TYP.)

SPRINKLER CONTROL BOX

HYDRO-MULCH EXISTING SLOPE PER LANDSCAPING PLANS

PINO ARROYO DRAINAGE AND UTILITY R.O.W. (60' R.O.W.)

TRACT D-1-B ACADEMY ACRES, UNIT 17 06-18-1990, 90C-131

FD REBAR W/CAP STAMPED "LS 12147" TAGGED W/WASHER STAMPED "NMPS 11154"

SANITARY SEWER M.H. RIM=5382.74 INV.=5360.54

DRAINAGE CERTIFICATION

As indicated by the as-built information shown hereon, the Big "O" Tires — San Antonio has been constructed in substantial compliance with the approved Grading Plan. It is based upon this evaluation that acceptance of this project and issuance of a Permanent Certificate of Occupancy are hereby recommended. The as-built information has been obtained by me or under my direct supervision and is true and correct to the best of my knowledge and belief.

Jeffrey G. Mortensen, NMPE 8547 — Date 7-96

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE OF SURVEY

I HEREBY CERTIFY THAT THIS PLAN AND SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM RESPONSIBLE FOR THIS WORK AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT I AM A NEW MEXICO LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR AND THAT I HAVE COMPLIED WITH ANY AND ALL APPLICABLE ORDINANCES, RULES, REGULATIONS AND POLICIES OF THE CITY OF ALBUQUERQUE AND THAT THIS PLAN AND SURVEY IS WITHIN THE DIVISION OF MY COMPETENCE AND EXPERIENCE AND DOES NOT INCLUDE ANY DIVISION OR PART OF THE PLAN AND SURVEY OF WHICH I HAVE NO KNOWLEDGE OR EXPERIENCE.

NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE NO. 8547

DATE: 7-15-96

GRADING AND DRAINAGE PLAN
BIG "O" TIRES - SAN ANTONIO WYOMING COMMERCIAL COMPLEX

JEFF MORTENSEN & ASSOCIATES, INC.
6020-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS & SURVEYORS (505) 345-4250

DESIGNED BY JGM/GRB
DRAWN BY EMS
APPROVED BY JGM

NO.	DATE	BY	REVISIONS
⚠	02/96	G.R.B.	AS-BUILT & CERTIFY

JOB NO. 950345
DATE 07-1995
SHEET 4 OF 6

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 25 DATE 3-15-02 OP ESP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11/15/02

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/07/02 fmd

D24 C20 B16 A12 CITY OF ALBUQUERQUE C D