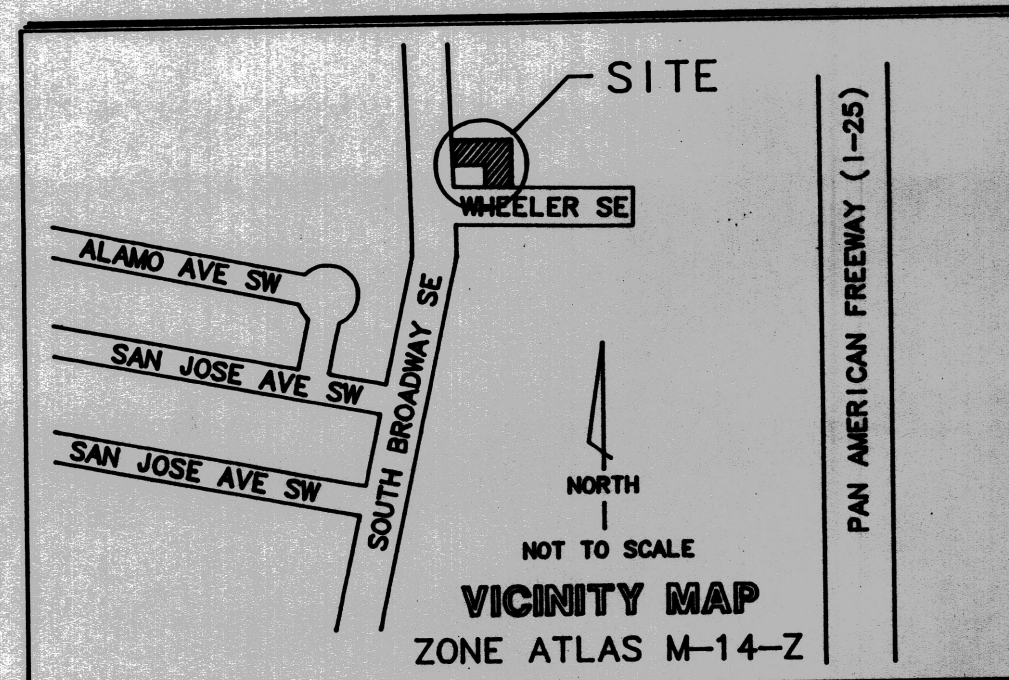




LEGAL DESCRIPTION

LOT 6-A
MANUEL SANCHEZ ADDITION
BERNALILLO COUNTY,
NEW MEXICO.

CERTIFICATION

I, R.G. Lee, Jr., Registered Professional Engineer hereby certify the improvements shown hereon are in substantial compliance with the approved drainage plan.

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

11/23/95
Date

S.O.10 SIGN-OFF.

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 performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
3. Two working prior to any excavation, contractor must contact line locating Services at (505) 280-1990 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 asphalt swale shall be the responsibility of the Owner of property served.

FLOOD INFORMATION

THIS SITE LIES IN A DESIGNATED 100 YEAR FLOOD PLAIN, ZONE AH, 100 YEAR SHALLOW FLOODING BETWEEN 1 & 3 FEET, BASE ELEVATION 4969 MSL. FLOODWAY MAP PANEL 22 OF 50.

DRAINAGE CALCULATIONS

I. REFERENCES:

- A. 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.
- B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 34 OF 50.
- C. ZONE ATLAS PAGE M-14-2.

II. GENERAL INFORMATION:

- A. SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1)
- B. 100 YEAR, 6 HOUR RAINFALL CRITERIA
- C. TIME OF CONCENTRATION, $T_c = 0.2$ hr (12 MINUTES).

III. IMPERVIOUSNESS:

TREATMENT	TYPES OF SURFACES	EXISTING SQ. FT.	ACRES	PROPOSED SQ. FT.	ACRES
A	UNDEVELOPED	13985	0.3211	12200	0.2801
B	LANDSCAPING	0	0.0000	5325	0.1222
C	COMPACTED/VACANT	18070	0.4148	0	0.0000
D	IMPERVIOUS	4343	0.0997	18873	0.4333
	TOTAL AREA (TA)	36398	0.8356	36398	0.8356

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	1.56	0.50	1.56	0.44
B	LANDSCAPING	2.28	0.00	2.28	0.28
C	COMPACTED/VACANT	3.14	1.30	3.14	0.00
D	IMPERVIOUS	4.70	0.47	4.70	2.04
	PEAK DISCHARGE FROM SITE		2.27 CFS		2.75

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	0.38	0.12	0.38	0.11
B	LANDSCAPING	0.95	0.00	0.95	0.12
C	COMPACTED/VACANT	1.71	0.71	1.71	0.00
D	IMPERVIOUS	3.14	0.31	3.14	1.36
	PEAK DISCHARGE FROM SITE		1.14 CFS		1.58

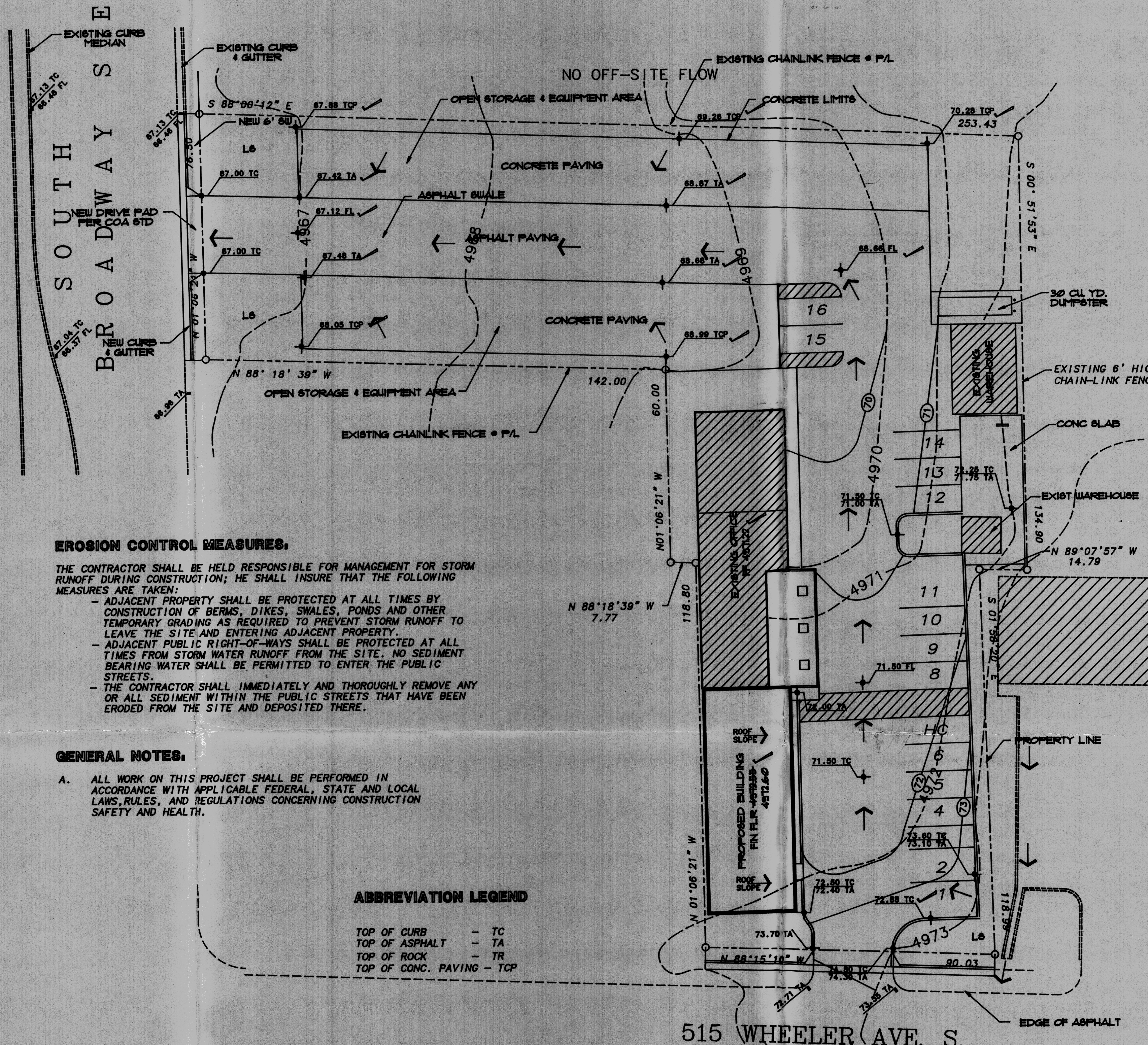
VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):

TREATMENT	TYPES OF SURFACES	EXISTING E	ExA/TA	PROPOSED E	ExA/TA
A	UNDEVELOPED	0.53	0.20	0.53	0.18
B	LANDSCAPING	0.78	0.00	0.78	0.11
C	COMPACTED/VACANT	1.13	0.56	1.13	0.00
D	IMPERVIOUS	2.12	0.25	2.12	1.10
	WEIGHTED "E" FACTOR		1.02 IN		1.39

VI. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):

EXISTING $1.02 \times 0.8356/12 = 0.07$ AC. FT.
3088.53 CU. FT.

PROPOSED $1.39 \times 0.8356/12 = 0.10$ AC. FT.
4219.19 CU. FT.



EROSION CONTROL MEASURES.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUNOFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF TO LEAVE THE SITE AND ENTERING ADJACENT PROPERTY.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

GENERAL NOTES:

- A. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

ABBREVIATION LEGEND

TOP OF CURB - TC
TOP OF ASPHALT - TA
TOP OF ROCK - TR
TOP OF CONC. PAVING - TCP

SYMBOL LEGEND

EXISTING CONTOUR
AS-BUILT DESIGN CONTOUR
AS-BUILT PROPOSED SPOT ELEVATION
PROPERTY LINE
EASEMENT LINE
FLOW DIRECTION
EXISTING SPOT ELEVATION
DOWN SPOUT

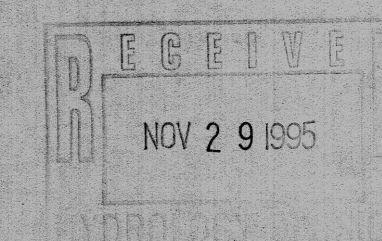
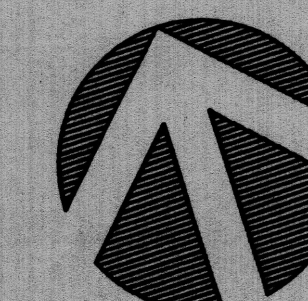
BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE FINISHED FLOOR OF EXISTING OFFICE BUILDING BEARS ELEVATION 4969.76 MSL. REFERENCE TO CITY BENCH-MARK N3381-3 HAVING ELEVATION 488.069

AS-BUILT
PROPOSED GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

0' 5' 10' 20' 40'



Job Number

Date

Revised

GRADING & DRAINAGE PLAN

Checked by: R.G. LEE, JR.

Drawn by: H. HODD

Sheet Title

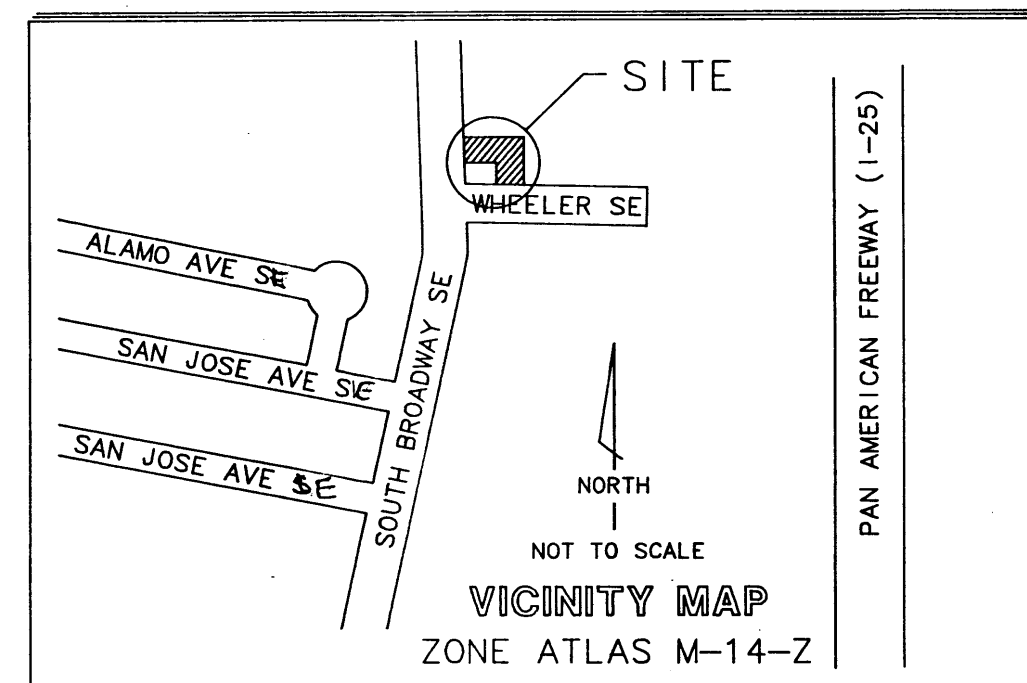
Lee Engineering

2805 CALLE DE RAFAEL N.E.
ALBUQUERQUE, N.M. 87122

OFFICE BLDG RENOVATION/
ADDITION - C. H. TAYLOR CO.
ALBUQUERQUE, N.M.

Job Title

Sheet Number



LEGAL DESCRIPTION
LOT 4A, BLK 3
BROADWAY PL. ADDITION
BERNALILLO COUNTY,
NEW MEXICO.

S.O.10 SIGN-OFF:

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.
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6. Maintenance of asphalt swale shall be the responsibility of the Owner of property served.

APPROVAL	NAME	DATE	Title:	
Hydrology			Permit No.	Map Number
Inspector				
A.C.E./Field			Sheet 1 of 1	

FLOOD INFORMATION

THIS SITE LIES IN A DESIGNATED 100 YEAR FLOOD PLAIN, ZONE AH, 100 YEAR SHALLOW FLOODING BETWEEN 1 & 3 FEET, BASE ELEVATION 4969 MSL. FLOODWAY MAP PANEL 22 OF 50.

DRAINAGE CALCULATIONS

1. REFERENCES:
 - A. 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.
 - B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 34 OF 50.
 - C. ZONE ATLAS PAGE M-14-Z.

- II. GENERAL INFORMATION:
 - A. SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1)
 - B. 100 YEAR, 6 HOUR RAINFALL CRITERIA
 - C. TIME OF CONCENTRATION, T_c ; $T_c = 0.2$ hr (12 MINUTES).

IMPERVIOUSNESS:		EXISTING		PROPOSED	
TREATMENT	TYPES OF SURFACES	SQ.FT	ACRES	SQ.FT	ACRES
A	UNDEVELOPED	13985	0.3211	12200	0.2801
B	LANDSCAPING	0	0.0000	5325	0.1222
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D	IMPERVIOUS	4343	0.0997	18873	0.4333
TOTAL AREA (TA)		36398	0.8356	36398	0.8356

PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):		EXISTING		PROPOSED	
TREATMENT	TYPES OF SURFACES	CFS/AC	Qp(100)	CFS/AC	Qp(100)
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WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):		EXISTING		PROPOSED	
TREATMENT	TYPES OF SURFACES	E	EXA/TA	E	EXA/TA
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D	IMPERVIOUS	2.12	0.25	2.12	1.10
WEIGHTED "E" FACTOR			1.02 IN		1.39

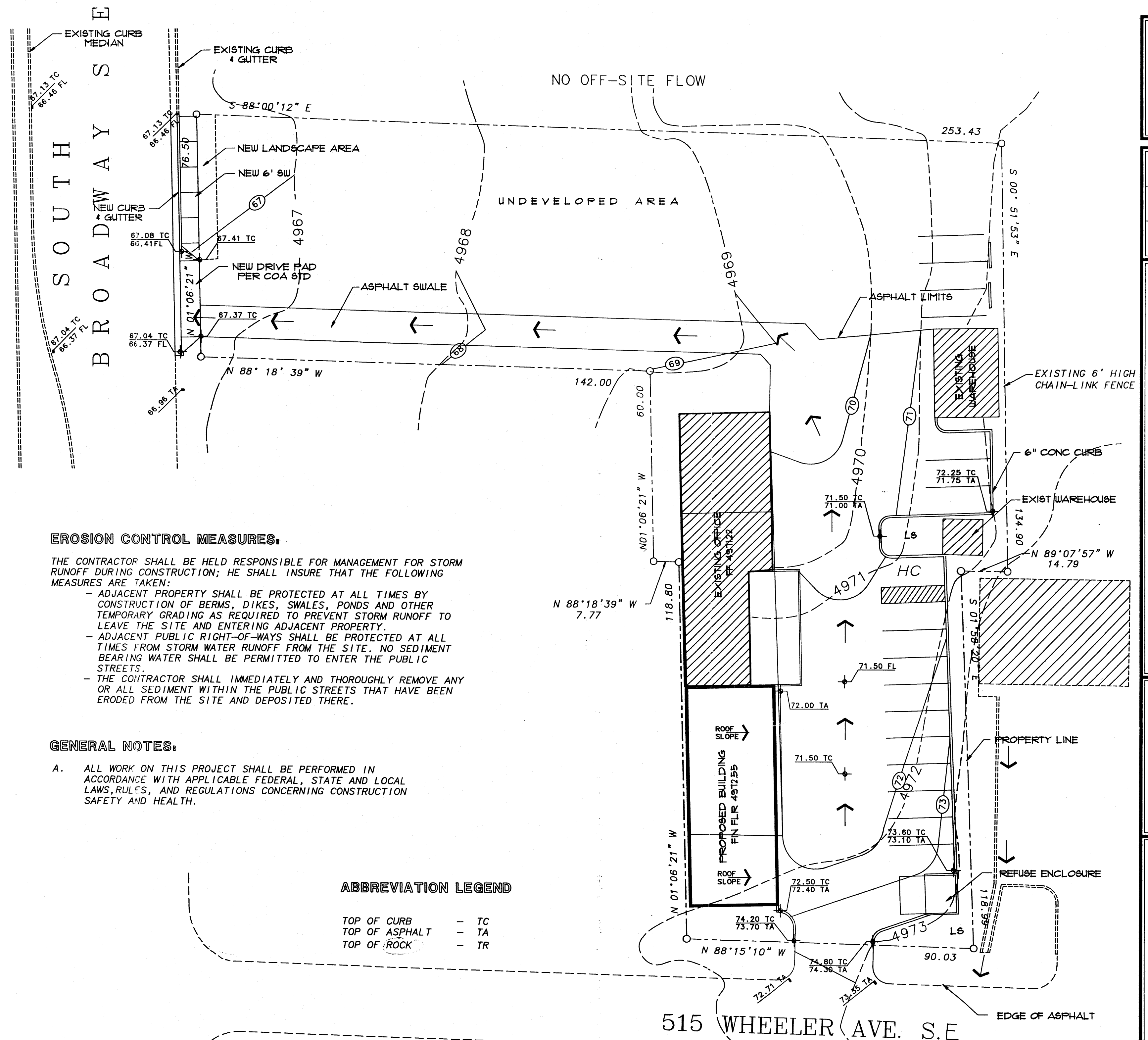
- VI. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):

$$\text{EXISTING } 1.02 \times 0.8356/12 = 0.07 \text{ AC. FT.}$$

$$3086.53 \text{ CU.FT}$$

$$\text{PROPOSED } 1.39 \times 0.8356/12 = 0.10 \text{ AC. FT.}$$

$$4219.19 \text{ CU.FT}$$



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TOP OF ASPHALT	- TA
TOP OF ROCK	- TR

SYMBOL LEGEND

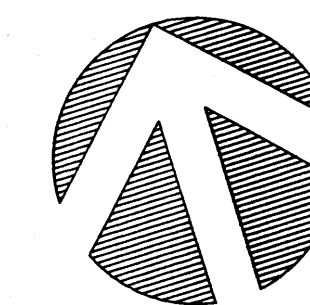
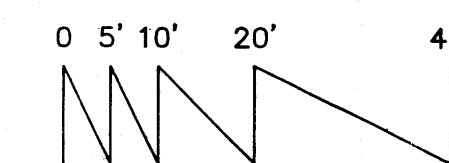
EXISTING CONTOUR	---
DESIGN CONTOUR	---
PROPOSED SPOT ELEVATION	73.0
PROPERTY LINE	---
EASEMENT LINE	---
FLOW DIRECTION	←
EXISTING SPOT ELEVATION	73.0
DOWN SPOUT	□

BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE FINISHED FLOOR OF EXISTING OFFICE BUILDING BEARS ELEVATION 4971.22 MSL, REFERENCE TO CITY BENCH-MARK NM361-3 HAVING ELEVATION 4966.069

GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'



APR 24 1995

Job Number

Date

Revised

Sheet Title

GRADING & DRAINAGE PLAN

Lee Engineering

2316 CALLE DE RAFAEL N.E.
ALBUQUERQUE, N.M. 87122

Job Title

Office Bldg Renovation/
Addition - C. H. Taylor Co.
Albuquerque, N.M.

Sheet Number

of