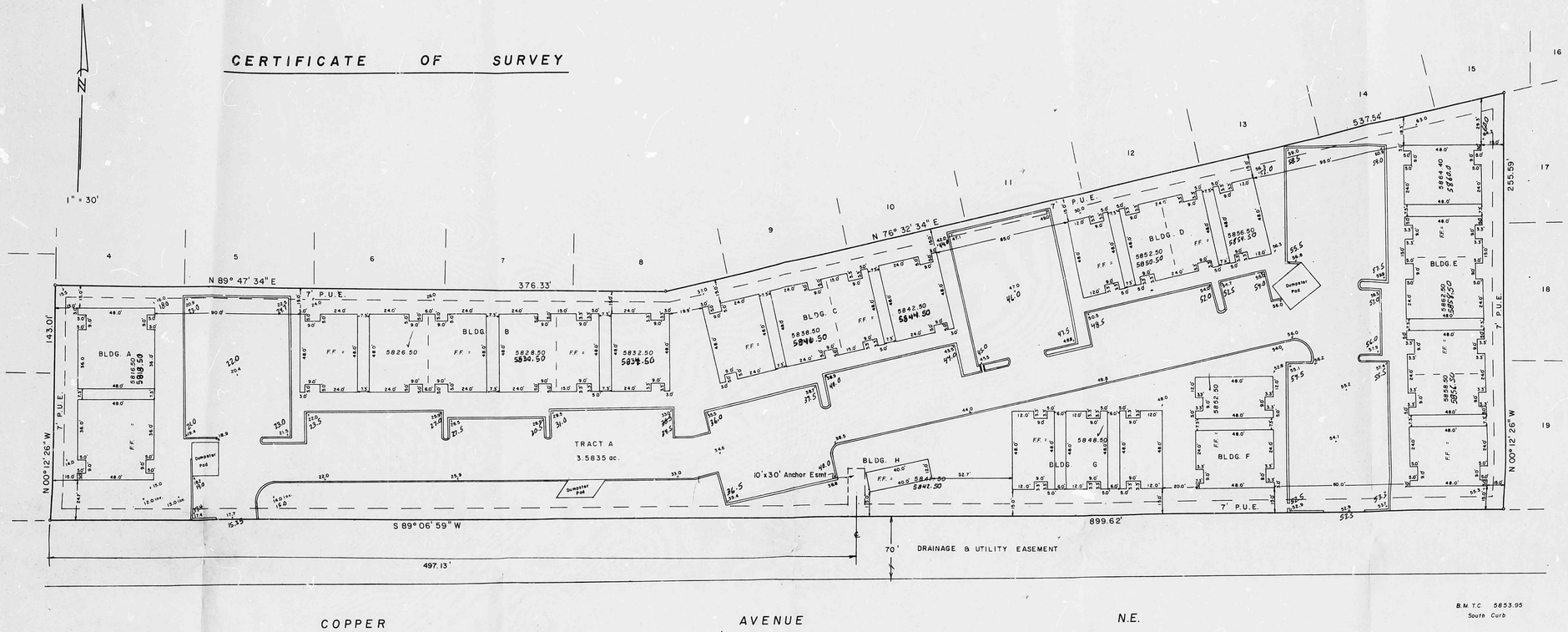
HYDROLOGY K23/D8a 3 PLANS

K23/D8A

3 Plans

CITY OF ALBUQUERQUE

CERTIFICATE OF SURVEY



LEGAL DESCRIPTION

Tract "A" in Block numbered Seven (7) of CITY VIEW ESTATES, Unit "C" a Subdivision of the City of Albuquerque, New Mexico, as the same is shown and designated on the corrected and amended plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on the 21st, day of May 1973.

SURVEYOR'S CERTIFICATE

I, Franklin E. Wilson, licensed under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my direction from notes of an actual field survey, that the plat hereon is a true, accurate and correct representation of the improvements as determined by survey, the lines and dimensions of said property being as indicated by the plat, the size, location and type of buildings and structures on the property being shown hereon and being located within the boundaries of the property, the set backs from property lines being the distances indicated; and based upon the plat and documentation provided, there are no encroachents, easements, conflicts, or protrusions, except as shown, noted or described on this survey.

Franklin E. Wilson — 5/10/82
Franklin E. Wilson, N.M.L.S. #6446 — Date

PREPARED BY:
SOUTHWEST SURVEYING CO., INC.
215 Marble N.W.
Albuquerque, New Mexico 87102
247-4444

REGISTERED LAND SURVEYOR — STATE OF NEW MEXICO — 6446 — FRANKLIN E. WILSON

SURVEYOR'S NOTE

Tract A in Block 7 of CITY VIEW ESTATES, Unit "C" was originally designated as Tract A-2, Block 7 of the plat of CITY VIEW ESTATES, Unit B, C & D, filed in the office of the County Clerk of Bernalillo County, New Mexico on July 9, 1971.

Amended to show elevations. — 9/13/82
Date

292-5155 Barry Smith

T 10 N, R 4 E, Sec. 23

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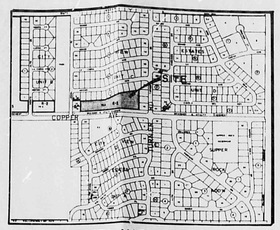
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

Do Not Remove From OFFICE.

K23-D8A

ALBUQUERQUE
NEW MEXICO

GRADING/DRAINAGE PLAN for Copper Street Apartments



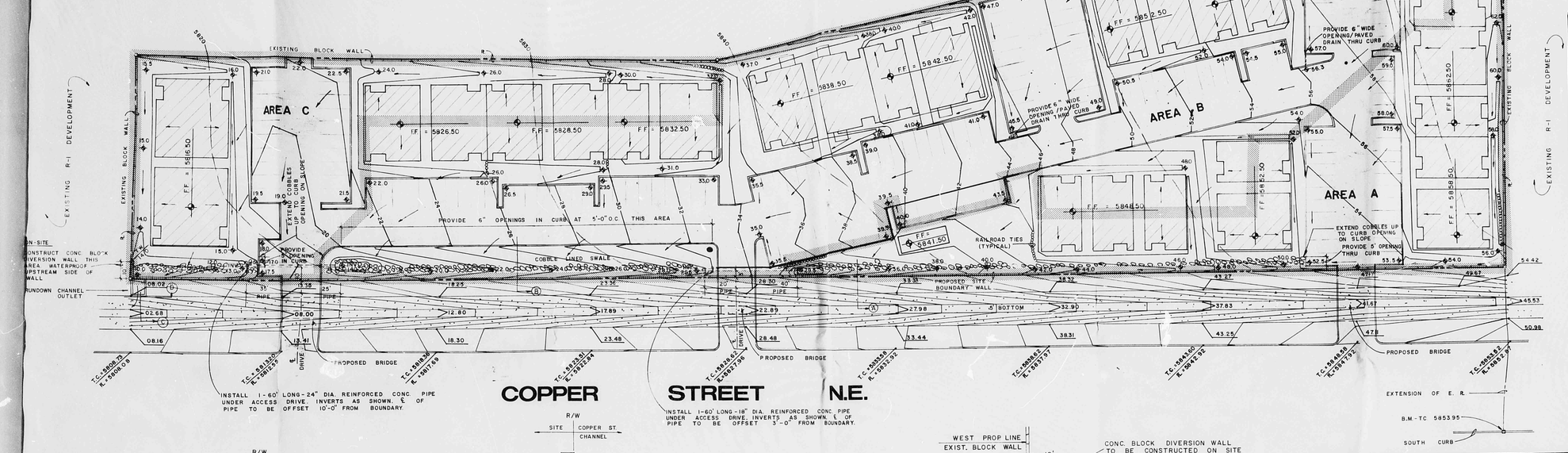
VICINITY MAP -L-23

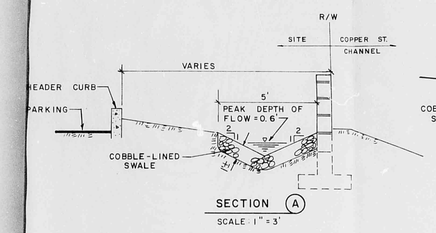
LEGEND

12.7	EXISTING SPOT ELEVATION
12	EXISTING CONTOUR (10' INTERVALS)
12.7	PROPOSED SPOT ELEVATION
12	PROPOSED FINISHED CONTOUR
	SURFACE FLOW DIRECTION
	DRAINAGE BOUNDARY
	COBBLE LINED SWALE

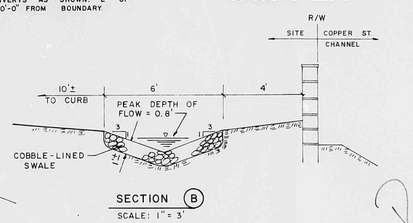
0 10 20 30 60

APPROVED FOR DRAINAGE
9-29-82
DATE
TITLE
CITY DRAINAGE INSPECTOR
VALID FOR ONE YEAR FROM DATE
THIS REVISED PLAN IS APPROVED PER BRIAN BUENO



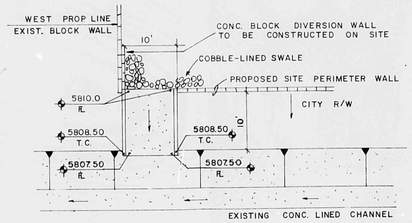


SECTION (A)
SCALE: 1" = 3'

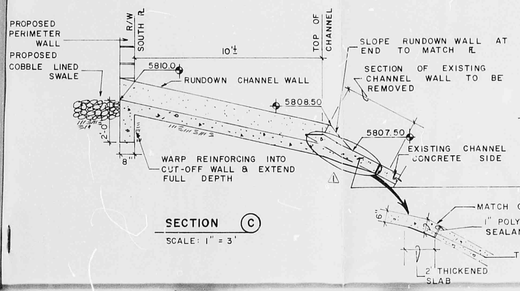


SECTION (B)
SCALE: 1" = 3'

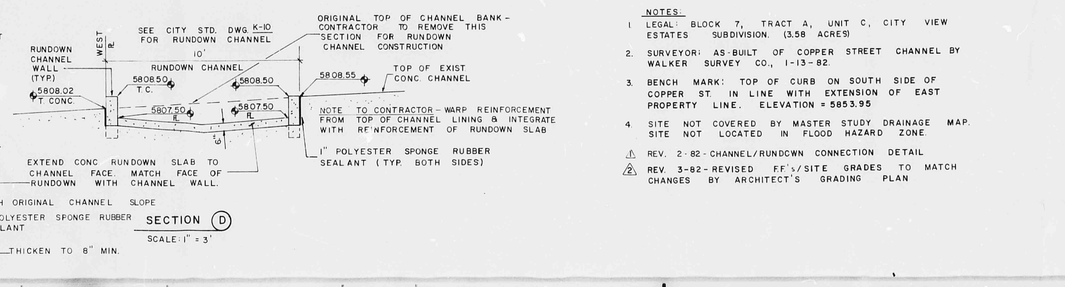
REVISED 3-1-82



CHANNEL OUTLET PLAN



SECTION (C)
SCALE: 1" = 3'



SECTION (D)
SCALE: 1" = 3'

NOTES:

1. LEGAL: BLOCK 7, TRACT A, UNIT C, CITY VIEW ESTATES SUBDIVISION. (3.58 ACRES)
2. SURVEYOR: AS-BUILT OF COPPER STREET CHANNEL BY WALKER SURVEY CO., 1-13-82.
3. BENCH MARK: TOP OF CURB ON SOUTH SIDE OF COPPER ST. IN LINE WITH EXTENSION OF EAST PROPERTY LINE. ELEVATION = 5853.95
4. SITE NOT COVERED BY MASTER STUDY DRAINAGE MAP. SITE NOT LOCATED IN FLOOD HAZARD ZONE.

⚠1 REV. 2-82 - CHANNEL/RUNDOWN CONNECTION DETAIL

⚠2 REV. 3-82 - REVISED F.F.'s/SITE GRADES TO MATCH CHANGES BY ARCHITECT'S GRADING PLAN

GENERAL INFORMATION

This revised grading drainage plan updates the approved drainage report prepared in March, 1980, which used inflow/outflow control ponds. At the time of the original report, the C[illegible]r Street Channel had not been constructed. In the intervening ti[illegible] period, the channel was completed, but the site was not. Due to the present existence of this channel, the site drainage concept is being revised, per a pre-design meeting with the City Engineers Office 1/5/82, to allow free discharge of the site into the channel.

CALCULATIONS

Area A: Drainage of this area accumulates in a lined swale located along the south side of the site for discharge into Area B through a pipe located under the middle access street.

Peak Rate: $Q100 = (0.74)(5.4)(0.78\ Ac.) = 3$ cfs
Pipe Capacity/HW/D = 1.0, entrance type - groove end projecting
nomograph for concrete pipe culverts with entrance control, an 18" diameter pipe's capacity = 7 cfs. 3 cfs from Area A.
Capacity of swale/2 = 2:1, n = 0.030, s = 0.035, Q = 3 cfs, depth of flow = 0.6'.

Area B: Drainage of this area accumulates and combines with flows from Area A in a lined swale located along the south side of the site for discharge into Area C through a pipe located under the westerly access street.
Combined A and B flow:

Peak Rate: $Q100 = (0.74)(5.4)(2.96\ Ac.) = 12$ cfs
Pipe Capacity/HW/D = 1.0, entrance type - groove end projecting, nomograph for concrete pipe culverts with entrance control, a 24" diameter pipe's capacity = 14 cfs. 12 cfs from Areas A and B.
Capacity of swale/2 = 3:1, n = 0.030, s = 0.050, Q = 12 cfs, depth of flow = 0.8'.

Area C: Drainage of this area combines with flow from Areas A and B for free discharge into the Copper Street Channel.
Combined A, B, C flow:

$Q100 = (0.74)(5.4)(3.58\ Ac.) = 14$ cfs
Capacity of swale/2 = 3:1, n = 0.030, s = 0.050, Q = 14 cfs, depth of flow = 0.9'.

Capacity of Drainage Rundown Rectangular Section:
Bottom width = 9', n = 0.015, s = 0.20, Q = 14 cfs, depth of flow = 0.2'.

RECOMMENDATIONS

1. Construct revised drainage improvements on-site as shown:
   a. Install 1 - 60' long 18" diameter reinforced concrete pipe under middle access drive, at inverts shown.
   b. Install 1 - 60' long 24" diameter reinforced concrete pipe under west access drive, at inverts shown.
   c. Line drainage swale along south side of site with large cobble, to cross sections shown.
   d. Construct concrete block diversion wall adjacent to existing wall at downstream entrance of concrete rundown to channel, as shown.
   e. Construct concrete drainage rundown into existing Copper Street Channel, per Std. City Drawing #K-10.

Special Order #19 Documents to be submitted with plan.

Gruntorad Torrado Inc.

Carl Gruntorad 1/14/82

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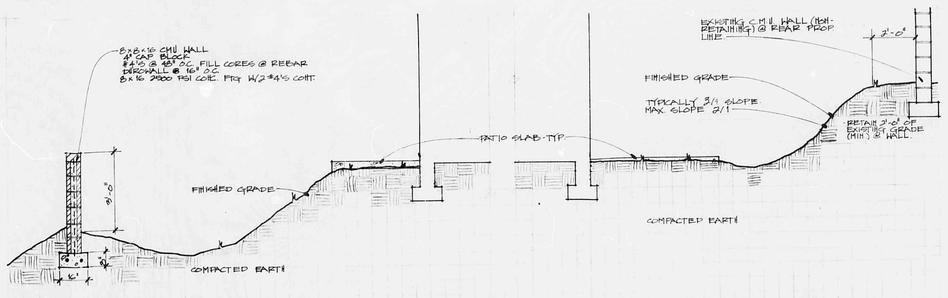
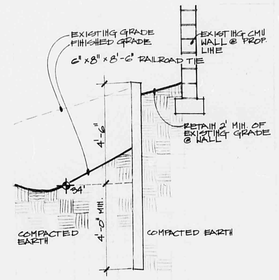
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

NOTES

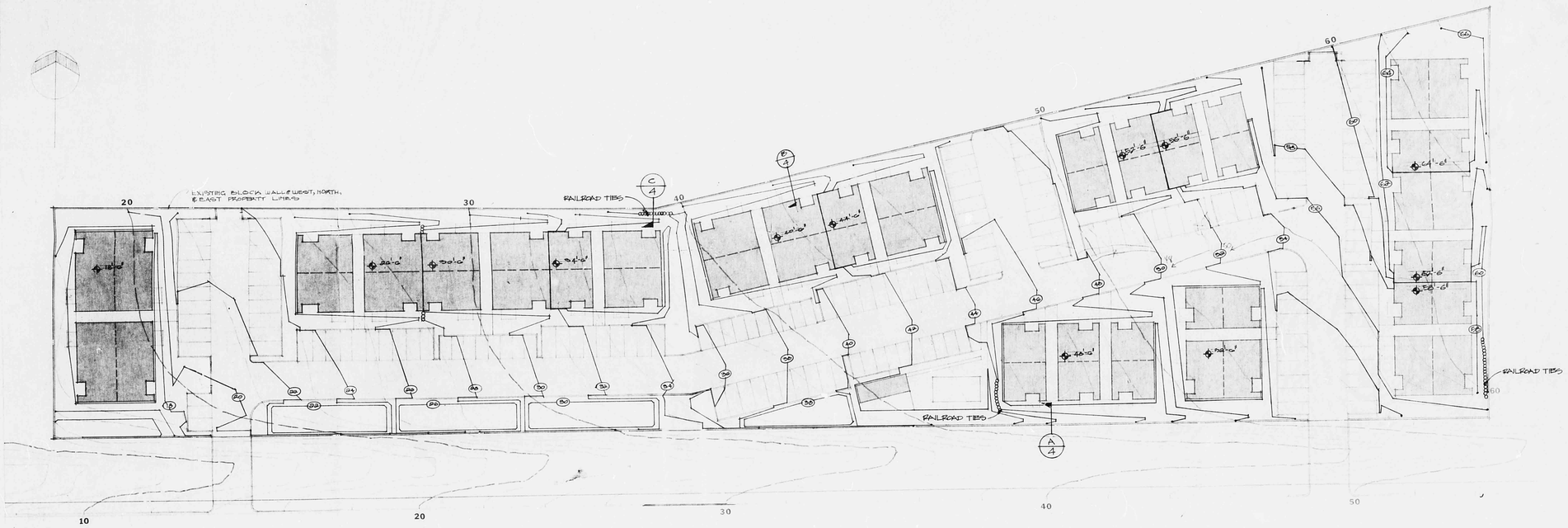


A SEC. (FRONT) RELATING BLDG., WALL AND SWALE

B SEC. (REAR) RELATING BLDG., WALL AND SWALE



C RAILROAD TIE RETAINER



GRADING PLAN

NOV 30 1982
RECEIVED

14225 COPPER ST. N.E.

STATE OF NEW MEXICO
Don P. Schlegel
Reg. 2135
James C. Lewis
Reg. 975
REGISTERED ARCHITECTS

SCHLEGEL AND LEWIS, ARCHITECTS
NEW MEXICO
ALBUQUERQUE
NEW MEXICO

COPPER ST. APARTMENTS

SHEET 4

GRADING PLAN

9/6/80
REV. 11/16/81

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CITY OF ALBUQUERQUE

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