HYDROLOGY

F17/D27

ONE PLAN

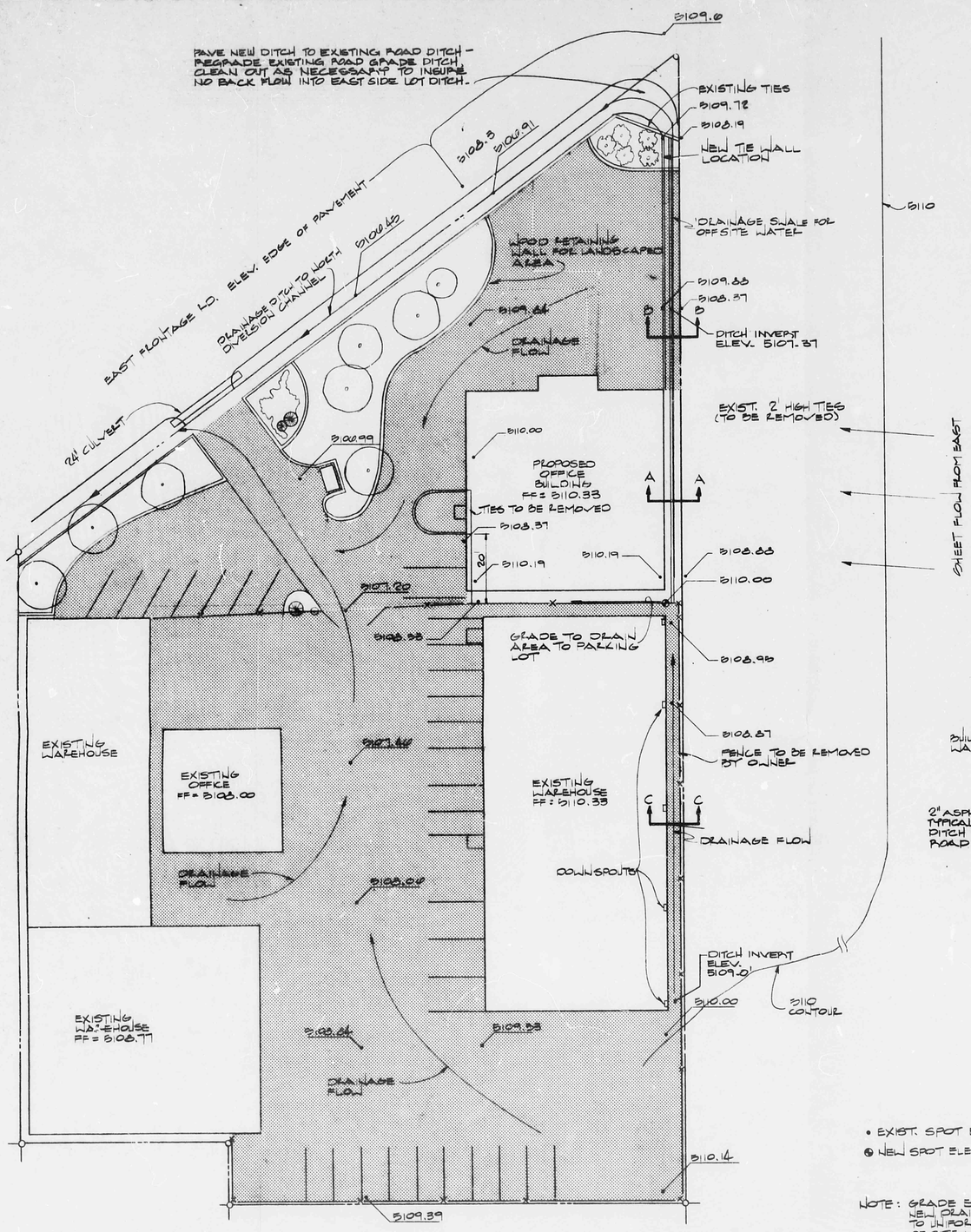
1 PLAN FOR

AL WHITE OFFICE

BIDG.- DRAINAGE

PLAN

F17-D27



SITE PLAN ~ DRAINAGE FLOW

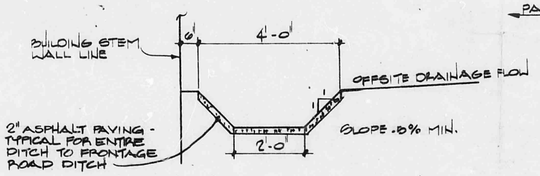
SCALE: 1" = 20'-0"

DRAINAGE NOTES:

- TRACT B-2 OF THE PLANK IN TRACT, ELENA GALLEGOS GRANT, FED. 1979 LD PLAT NO. 70-281 FILED JULY 20, 1970, BERN. COUNTY N. 34447 1.43 ACRES
- DRAINAGE PER MARCH 1978 REPORT FOR SITE & AREA
- ALL OFFSITE WATER AND ON SITE WATER FLOWS NORTHWEST TO FRONTAGE ROAD DRAINAGEWAY WHICH FEEDS INTO THE NORTH DIVERSION CHANNEL
- FRONTAGE ROAD DRAINAGEWAY CAPACITIES PER 1978 REPORT ARE NOT EXCEEDED FOR THIS CONSTRUCTION AND NO SITE PONDING IS REQUIRED
- SPOT ELEVATIONS SHOWN ARE EXISTING ELEVATIONS. EXISTING OFFICE AT ELEVATION 5108.00
- NEW BUILDING FINISHED FLOOR WILL BE MINIMUM OF 4" ABOVE SURROUNDING GRADE
- NO OTHER GRADE CHANGES WILL BE MADE
- OFFSITE DRAINAGE FROM EAST WILL FLOW NORTH & NORTWEST TO FRONTAGE ROAD DRAINAGE WAY. ON SITE DRAINAGE FLOW THROUGH EXISTING PAVED AREA & NORTHWEST TO FRONTAGE ROAD DRAINAGE WAY.
- THERE ARE NO ADJACENT BUILDINGS TO THE EAST. PROPERTY IS PRESENTLY UNDEVELOPED & GENERALLY SLOPES 1 TO 2%, FLOW EAST OF PROPERTY IS OVERLAND TYPE FLOW.

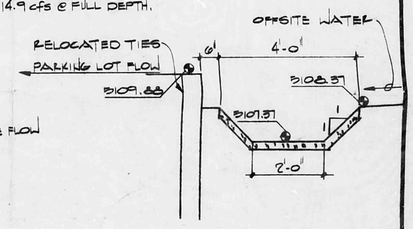
SUMMARY OF FLOW QUANTITIES FROM CURRENT SITE CONSTRUCTION AND 1978 REPORT

1. OFF-SITE FLOWS FROM EAST OF UNSTUT PROPERTY - Q = 38.4 cfs FULLY DEVELOPED 1978 REPORT.
2. ON-SITE GENERATED QUANTITY Q = 1.43 x 4.0 x .90 = 7.8 cfs ON-SITE AREA, BLDG. ROOFS & PAVING ALL DRAINS NORTWEST TO EAST FRONTAGE ROAD DRAINAGEWAY WHICH IS MAINTAINED BY THE SHD.
3. EAST FRONTAGE ROAD DRAINAGE WAY CAPACITY SOUTH OF UNSTUT - Q = 42.7 cfs - 1978 REPORT FLOWS INTO NORTH DIVERSION CHANNEL.
4. TOTAL DRAINAGE FLOW TO EAST FRONTAGE DRAINAGE WAY - Q = 27.9 cfs - 1978 REPORT FULLY DEVELOPED.
10. UNDEVELOPED OFF-SITE FLOW EAST Q = 9.6 AC x 4.6 x .30 = 13.2 cfs AMOUNT TO PASS THROUGH UNSTUT PROPERTY
11. EAST SIDE DRAINAGE WAY ALONG UNSTUT INTERCEPTS OFF-SITE FLOW & CARRIES IT NORTH TO EAST FRONTAGE DRAINAGE WAY Q = A $\frac{1}{n}$ R 2/3 S 1/2 = 3(1.5/.07)X.73X.0713) = 14.9 cfs @ FULL DEPTH.



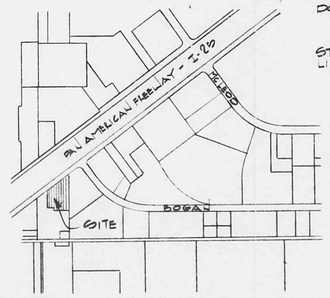
SECTION A-A - DRAINAGE SWALE

SCALE: 1/2" = 1'-0"



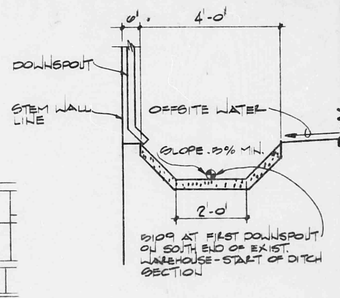
SECTION B-B

SCALE: 1/2" = 1'-0"



SITE LOCATION MAP

NO SCALE



SECTION C-C

• EXIST. SPOT ELEVATIONS

⊕ NEW SPOT ELEVATIONS

NOTE: GRADE EAST SIDE OF NEW DRAINAGE SWALE TO UNIFORMLY DELIVER OF SITE WATER TO SWALE

Approved for Drainage 1/4/84

F17/D27

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Albuquerque, New Mexico

AL WHITE - OFFICE BUILDING
DRAINAGE STUDY

REVISIONS	
DATE:	BY:
1/3/84	

DESIGNED:
DRAWN:
CHECKED: Jan 4, 1984
DATE: DEC. 7, 1983
SCALE: 1" = 20'-0"
JOB NO.:
SHEET 1 OF 1 SHEETS