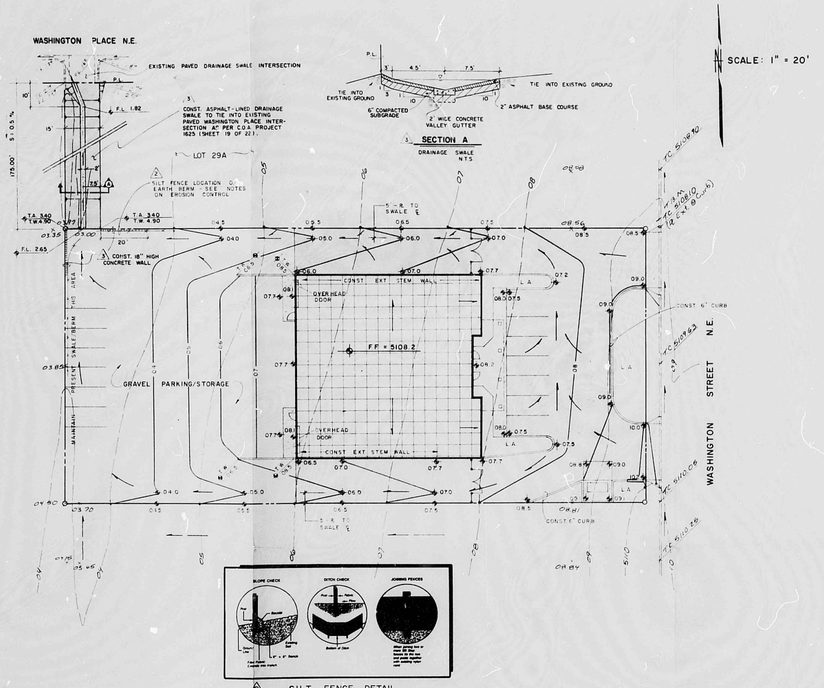
PUBLIC WORKS/HYDROLOGY

C17/D1A3



SILT FENCE DETAIL

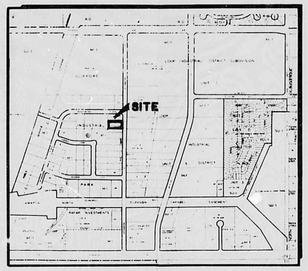
LEGEND

- SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED)
- PROPOSED ASPHALT
- BUILDING (EXISTING, PROPOSED)
- PROPERTY LINE
- 10.7 x — EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- 10.4 x — PROPOSED SPOT ELEVATION
- 10 — PROPOSED CONTOUR
- SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
- L.A. — LANDSCAPED AREA
- T.B.W. — TOP OF GRADE WALL (LESS THAN 18" HIGH)
- T.R.W. — TOP OF RETAINING WALL (MORE THAN 18" HIGH)
- T.A. — TOP OF ASPHALT
- T.C. — TOP OF CURB
- F.L. — FLOW LINE
- F.F. — FINISHED FLOOR

CONSTRUCTION NOTES:

1. Before construction, the Contractor shall check and verify grades (figures always govern) and shall make all excavation field measurements. Should any conflict, error or discrepancy appear between the plans and actual conditions, it shall be reported to the Engineer before any work is done. Any work done as a result of such omission must be redone. The Contractor is responsible for coordinating work with the Engineer for any pre-design modifications or changes in the scope of work as initially approved and bonded.
2. The Contractor shall be responsible for following the plans using his best skill and attention. Any departure from the plans must be approved by the Engineer and the City Hydrology Department prior to construction.
3. The Contractor shall check the site plan for locations of buildings, walks, curbs, etc. and shall be responsible for lines and grades as established on site. Any discrepancy in layout must be reported to the Engineer before proceeding. The Engineer shall be given 24 hours notice in the interest of avoiding delays for any work that may interfere with road activities.

FLOOD HAZARD BOUNDARY MAP



VICINITY MAP C-17

SCOPE:

The proposed improvements are comprised of an office building, paving for access and parking areas and landscaping, will be located on Lot 30A of the Clifford Industrial Park. This site has been included in a master drainage plan for the overall tract, prepared by Bohannan-Huston, August, 1982.

The present site is an undeveloped lot which slopes to the west to a lined drainage swale at the rear of the lot. This swale will drain the lot to Washington Place for ultimate discharge into the AMAFCA Channel.

The intent of this plan is to show:

a) Gracing relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.

b) The extent of proposed site improvements, including buildings, walks and pavement.

c) The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.

d) The relationship of onsite improvements ith existing neighboring property to insure an orderly transition between proposed and surrounding grades.

GENERAL NOTES:

LEGAL: Lot 30A, Clifford Industrial Park, Albuquerque, New Mexico.

SURVEYOR: Logan-Gross, Inc. June 10, 1986.

B.M.: BM-B-C-17, A Standard ACS Brass Tablet, Elevation = 5111.03.

T.B.M.: TC at Lot line projection NE corner of site, Elevation = 5108.10.

SOILS: SCS Soils Map #11, Soil Type 'EmB', Soil Hydrologic Group 'B'.

FLOOD HAZARD: Site is not located in a flood hazard zone, per B-H Report for the Clifford Industrial Park (Plate 10, FEMA).

OFF-SITE DRAINAGE: Off-site drainage is intercepted by Washington Street. Flow patterns of adjacent lots parallels site. Thus site is not affected by off-site drainage.

EROSION CONTROL: If stockpiled file material is left on the site, the Contractor will be responsible for installing either a temporary silt fence or constructing a 2'-high earth berm across the west side of site to intercept sediments-ladin flows.

CALCULATIONS: Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100 year-6 hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

RATIONAL METHOD- Q = CIA

Area of site: 29890 sq.ft. = 0.69 Ac.

Run-off Coefficient:

Existing site:
Undeveloped Area = 29890 ft²

$$C_u = \frac{29890\ (0.40)}{29890} = 0.40$$

Composite C = 0.40

Developed Site:
Roof Area = 6800 ft²
Landscaped Area = 1836 ft²
Paved Area = 9298 ft²
Gravel Area = 11956 ft²

$$C_u = \frac{6800\ (0.90)}{29890} = 0.20$$

$$C_l = \frac{1836\ (0.25)}{29890} = 0.02$$

$$C_p = \frac{9298\ (0.95)}{29890} = 0.30$$

$$C_g = \frac{11956\ (0.45)}{29890} = 0.18$$

Composite C = 0.70

Rainfall Intensity:

$$I = P_{6_{100}}\ (6.84)\ T_c^{-0.51} = 4.65" \text{ per hour}$$

where $P_{6_{100}}$ = 2.2" (DPM 22.2 D-1)
T_c = 10 minutes

Existing Condition:

$$Q_{100} = (0.40)(4.65)(0.69) = 1.3 \text{ cfs}$$

$$V_{100} = (1.3)(50T_c)(60 \text{ sec/min})/2 = 1950 \text{ cu. ft.}$$

Developed Condition:

$$Q_{100} = (0.80)(4.65)(0.69) = 2. \text{ cfs}$$

$$V_{100} = (2.6)(50)(60)/2 = 3900 \text{ cu. ft.}$$

SUMMARY:

$$Q_{100} = (2.6)-(1.3) = 1.3 \text{ cfs (increase)}$$
$$V_{100} = (3900)-(1950) = 1950 \text{ cu. ft. (increase)}$$

RECEIVED
AUG 12 1986
HYDROLOGY SECTION

RESUBMITTAL 7-28-86
1 NOTE ADDED CONCERNING STATUS OF DRAINAGE SWALE AT NW CORNER OF SITE (DELETED 8-12-86)
2 SILT FENCE DETAIL SHOWN/LOCATION ADDED TO PLAN

RESUBMITTAL 8-12-86
3 ADD DESIGN OF PAVED DRAINAGE SWALE (LOT 29A) AND CONCRETE CUTOFF WALL (LOT 30A) AS PER C.O.A. PROJECT 1625 (SHEET 19 OF 22).

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ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3446

REVISIONS | DATE
DESIGNED
DRAWN
CHECKED

DRAINAGE / GRADING PLAN
OFFICE/WAREHOUSE COMPLEX
8431 WASHINGTON N.E.

ENGINEERING

SHEET OF

R# 34 DATE 3/14/12 OP. EP

CITY OF ALBUQUERQUE

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DIRECTOR 11/5/12

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PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: C17/DIA3

PLANS/PLATS 1

E 30 D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D F

DRAINAGE / GRADING PLAN
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8431 WASHINGTON N.E.

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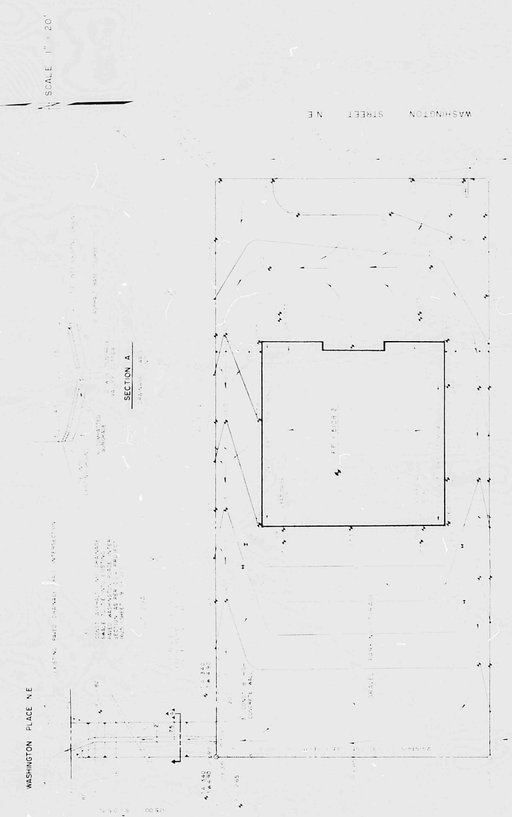
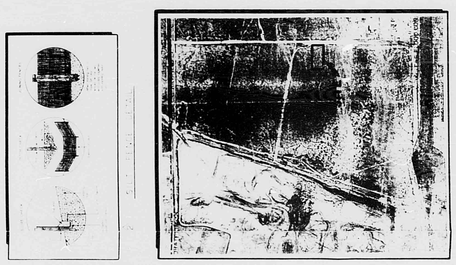
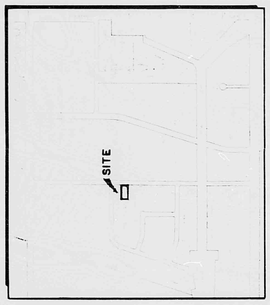




FLOOD HAZARD BOUNDARY MAP



VICINITY MAP C-17

LEGEND

CITY OF ALBUQUERQUE

F E D C B A

30 24 20 16 12