HYDROLOGY

E17/D41J

ONE PLAN

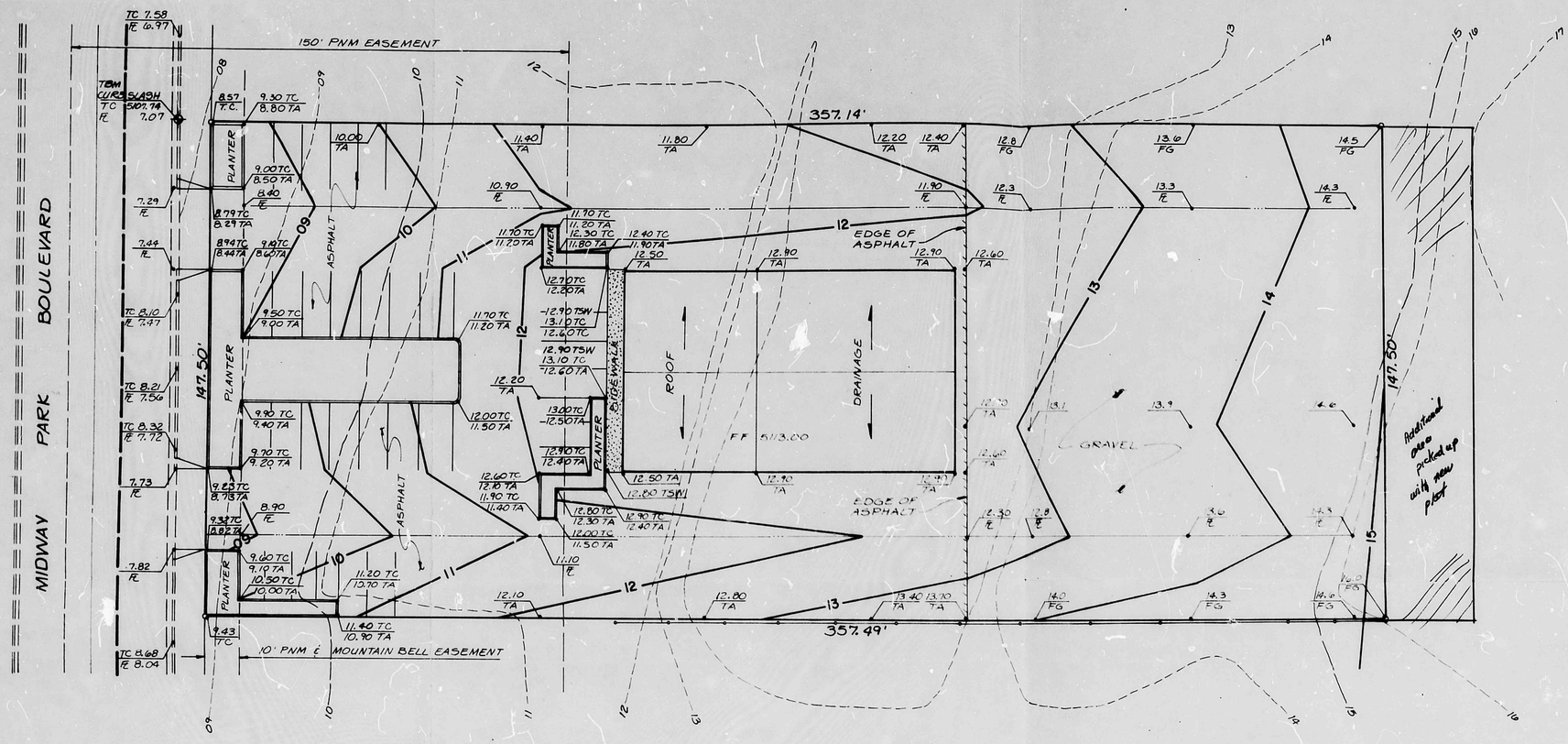
MIDWAY BUSINESS

PARK

LOT 11-A

E17 - D4F1J

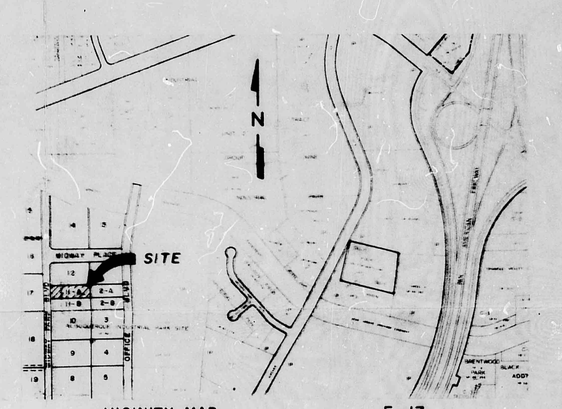
1 PLAN



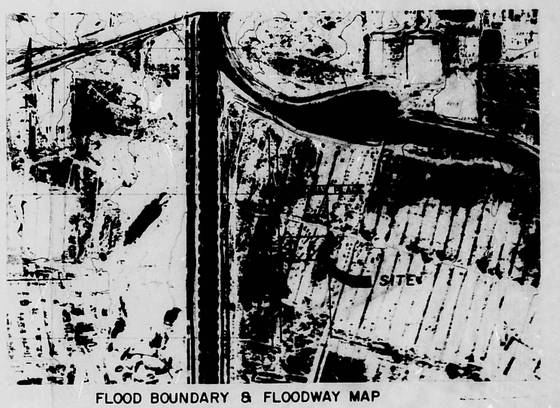
LEGEND

TC	TOP OF CURB
TSW	TOP OF SIDEWALK
TA	TOP OF ASPHALT
FG	FINISH GRADE
FF	FINISH FLOOR
--10--	EXISTING CONTOUR
—11—	FINISH CONTOUR

SCALE: 1" = 20'



VICINITY MAP E-17



FLOOD BOUNDARY & FLOODWAY MAP
PANEL 16
OCT. 14, 1983

E17/D41J

RECEIVED
NOV 05 1985
HYDROLOGY SECTION

LEGAL DESCRIPTION

Lot 11A, Midway Business Park

BENCHMARK

ACS B.M.Pg.F-36 Elev. 5110.406
S.C. 26,27,34 & 35; T11N; R3E

OFFSITE DRAINAGE

Due to development of the street system the temporary offsite drainage is limited to Lots 2A & 2B. There is a platted drainage easement to divert even this flow when Lots 2A & 2B are developed. Lot will be graded to accept flows on an interim basis.

ONSITE DRAINAGE

1. Development of the parcel shall be in conformance with the drainage report of the subdivision.
2. Net effect of the development shall be a resultant runoff factor from Lot 11A of 0.86.
3. Computed runoff factor

Surface	Area (s.f.)	Factor	Area x Factor
Gravel	19,092	0.70	13,364
Roof (metal)	6,000	1.00	6,000
Asphalt	25,327	0.95	24,061
Landscape	2,565	0.25	641
	52,984		44,066

C = 44,066/52,984 = 0.83

4. No ponding required to comply with master report.
5. Peak Flow Rates (intensity = 4.65 in/hr)

Developed

$Q_{100} = (0.83)\ (4.65)\ \left(\frac{52,984}{43,560}\right)$ = 4.7 cfs

$Q_{10} = Q_{100} \times 0.657$ = 3.1 cfs

Existing

$Q_{100} = (0.4)\ (4.65)\ \left(\frac{52,984}{43,560}\right)$ = 2.3 cfs

$Q_{10} = Q_{100} \times 0.657$ = 1.5 cfs

4.7
2.3
3.1
1.5

EROSION AND SEDIMENT CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL DURING CONSTRUCTION. THE CONTRACTOR MUST PREVENT ANY AND ALL SOIL-BEARING STORM RUNOFF GENERATED ON THE SITE FROM ENTERING THE ADJACENT STREET, DRAINAGE CHANNELS OR PRIVATE PROPERTY. IN THE EVENT THAT SEDIMENTATION FROM THE SITE DOES ENTER THE STREET, THE CONTRACTOR SHALL COMPLETELY AND THOROUGHLY REMOVE SAME WITHOUT DELAY.

GRADING & DRAINAGE PLAN
LOT 11-A

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