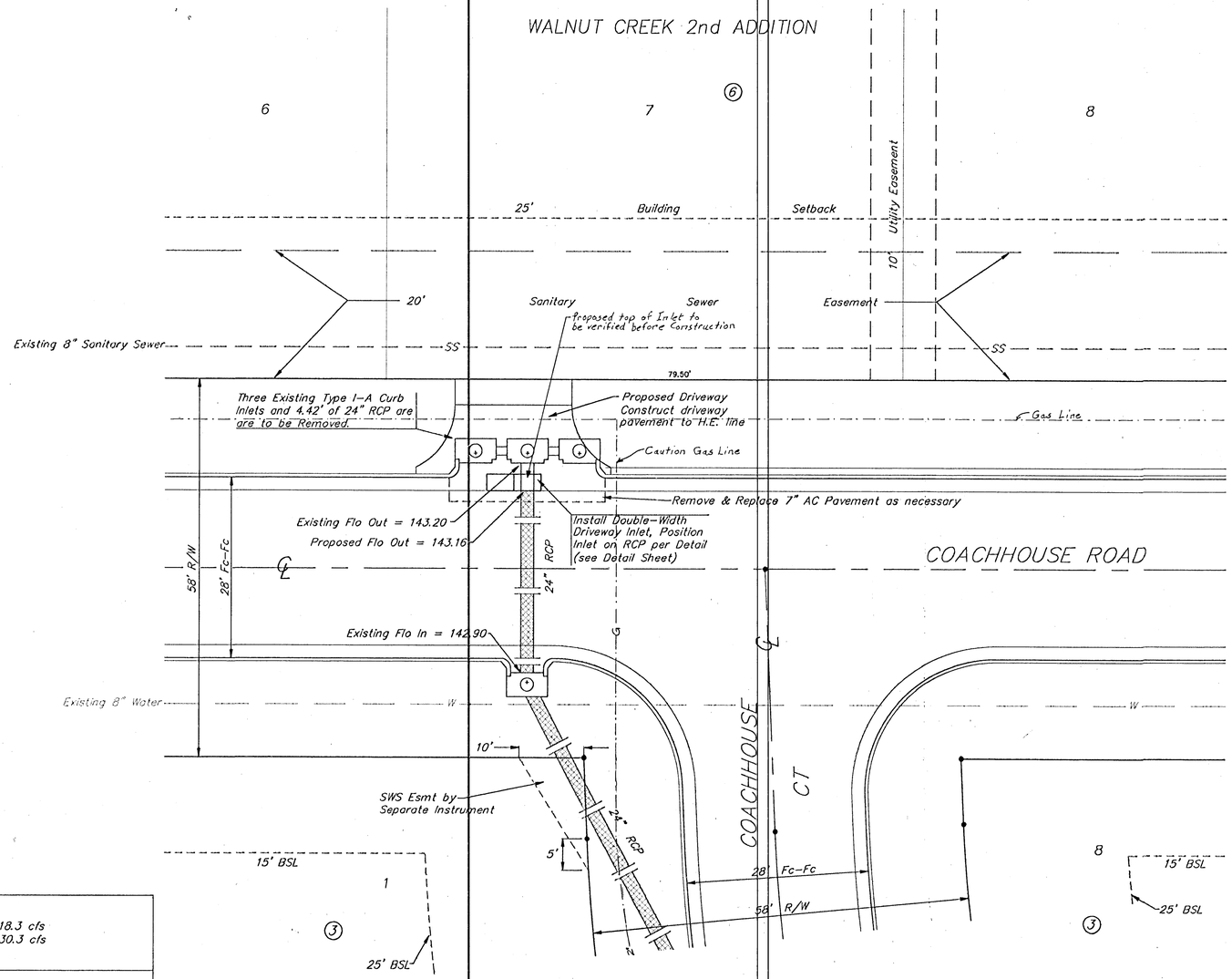
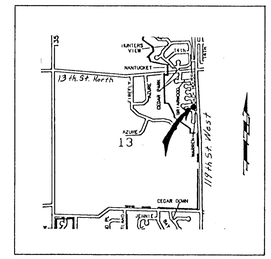


Scale: 1" = 10'
• = IRON



Location Map

Benchmark: "□" cut in top of curb near the the south side of lot 16, block 1, Walnut Creek Addition.
Elevation = 151.03

Inlet Capacity for 3-Type 1A Inlets:
h = Depth (ft) Case 1: h = 0.72 Q = 18.3 cfs
Case 2: h = 1.02 Q = 30.3 cfs

Calculations for Double-Width Inlet Grate Capacity:

$Q = 0.6 * A * \sqrt{2 * h * g}$

Q = Flow (cfs)
A = Area (ft^2)
h = Depth (ft)
g = Gravity (ft/s^2)

Open Area of Grate = 4.783 ft^2

Case 1: h = h (TC) − h (high edge)
h = 0.49'
$Q = 2 * (0.6 * 4.783 * \sqrt{2 * 0.49 * 32.2})$
Q = 32.24 cfs

Case 2: h = h (ROW) − h (high edge)
h = 0.79'
$Q = 2 * (0.6 * 4.783 * \sqrt{2 * 0.79 * 32.2})$
Q = 40.94 cfs

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers VRH 1/27/92
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer.

Rev 1-30-92

N. BRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

DRIVEWAY INLET CONST.

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV.

PROJECT NUMBER
325PPS (607861)

SHEET 1 OF 2

DESIGN	DRAWN	APPROVED	DATE	SCALE
T.C.R./B.P.	B.P.		JAN. 16, 1992	1" = 10'

92-01-E286

Sheet #2 Double-width Drive Inlet