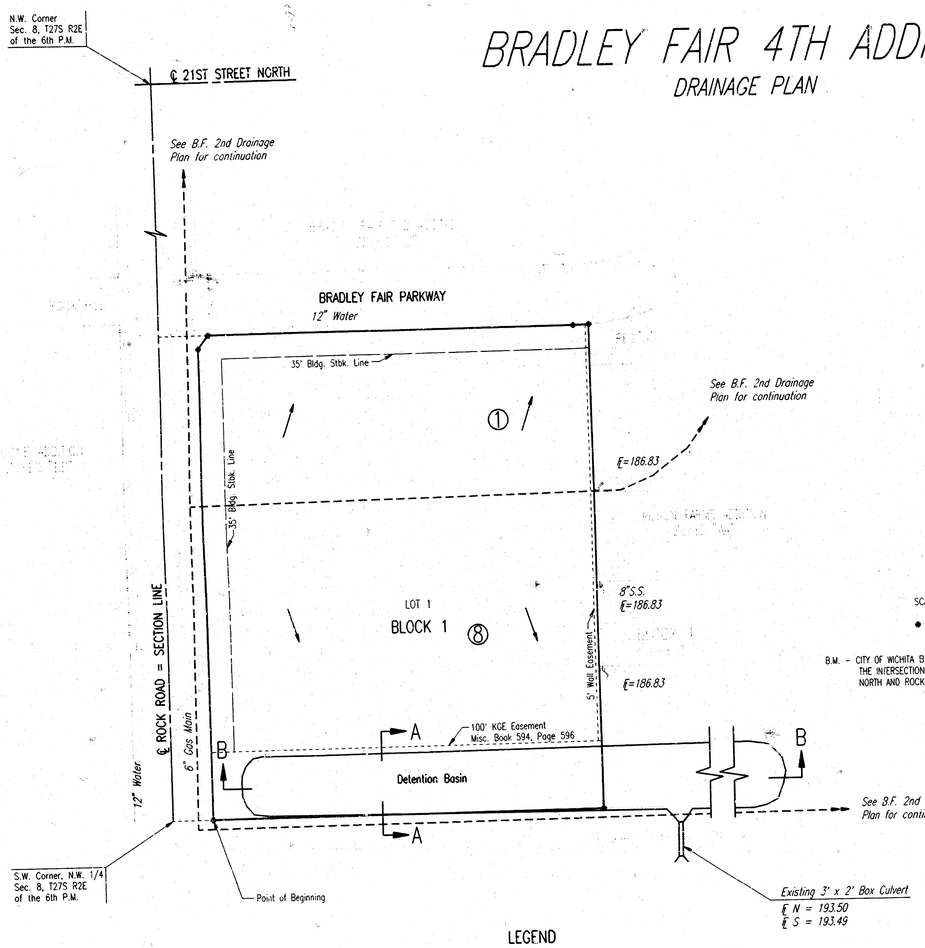
BRADLEY FAIR 4TH ADDITION

DRAINAGE PLAN



LEGEND

--- DRAINAGE BASIN BOUNDARY

① DRAINAGE BASIN DESIGNATOR

⟵ DRAINAGE FLOW DIRECTION

SCALE: 1" = 100'

● = IRON SET

B.M. – CITY OF WICHITA B.M. DISC, 45' NORTH AND 48' EAST OF THE INTERSECTION OF THE CENTERLINES OF 21ST STREET NORTH AND ROCK ROAD.

ELEV. 214.568 CITY DATUM

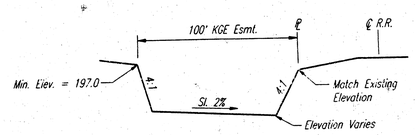
THE TRACT OF LAND BEING PLATTED AS BRADLEY FAIR 4TH ADDITION WAS PREVIOUSLY INCLUDED AS PART OF THE DRAINAGE PLAN FOR BRADLEY FAIR 2ND ADDITION. ALL INFORMATION SHOWN ON THIS DRAINAGE PLAN WAS TAKEN FROM THE REFERENCED DRAINAGE PLAN, INCLUDING DRAINAGE BASIN DELINEATION/DESIGNATION AND DETENTION BASIN SIZE AND SHAPE.

IT WAS ASSUMED IN THE B.F. 2ND DRAINAGE PLAN THAT THE PORTION OF THIS PLAT SHOWN IN BASIN 1 WILL BE GRADED SUCH THAT RUNOFF WILL BE DIRECTED TO BRADLEY FAIR PARKWAY, AND ULTIMATELY TO POND NO. 1, AS SHOWN IN THE B.F. 2ND DRAINAGE PLAN.

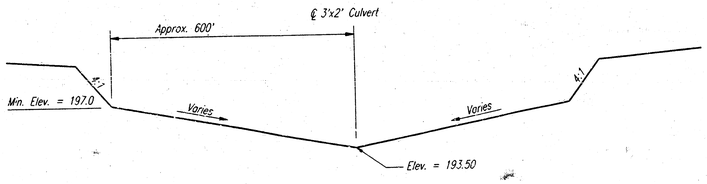
RUNOFF FROM BASIN 8 WILL BE DIRECTED TO THE PROPOSED DETENTION BASIN LOCATED IN THE 100' KGE EASEMENT. THE TYPICAL SECTIONS FOR THE POND ARE SHOWN ON THIS PLAN. RUNOFF FLOW RATES HAVE NOT BEEN COMPUTED FOR THIS PLAT AS THIS IS ONLY A PORTION BASIN 8 AS SHOWN IN THE B.F. 2ND DRAINAGE PLAN. FLOW DATA FOR THE PROPOSED DETENTION BASIN ARE AS FOLLOWS:

Q in = 74 cfs (100-year)
Q out = 30 cfs (100-year)
Q pre-dev = 66 cfs (100-year)
DWS100 = 196.02 (FROM HEC-1 PRINTOUT IN B.F. 2ND D.P. FOR BASIN 8)

THE PROPOSED DETENTION BASIN HAS MORE THAN SUFFICIENT STORAGE AVAILABLE TO LIMIT THE DEVELOPED RUNOFF RATE TO THE PRE-DEVELOPED RATE.



SECTION A-A



SECTION B-B

DSNR: RWH OPER: DEP SCALE: 1=100.00
Q:\1997\97807\dmplan 02-11-1999 02:07:29 pm