

PROJECT #444PPS

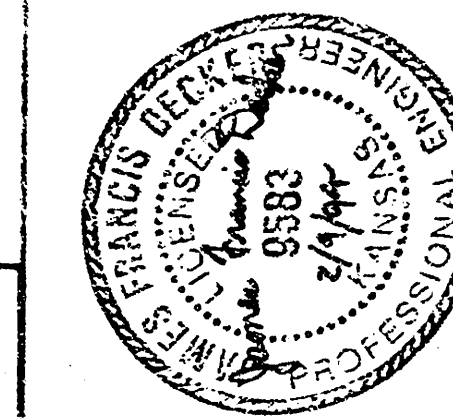
INDEX CODE 607861

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

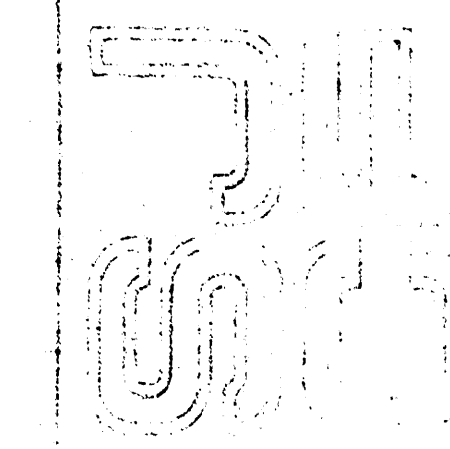
Sanitary Sewers _____
Storm Sewers VRH
Driveway Approaches _____
Water Mains _____
Paving _____

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.



SEAL OF THE CITY ENGINEER OF WICHITA, KANSAS



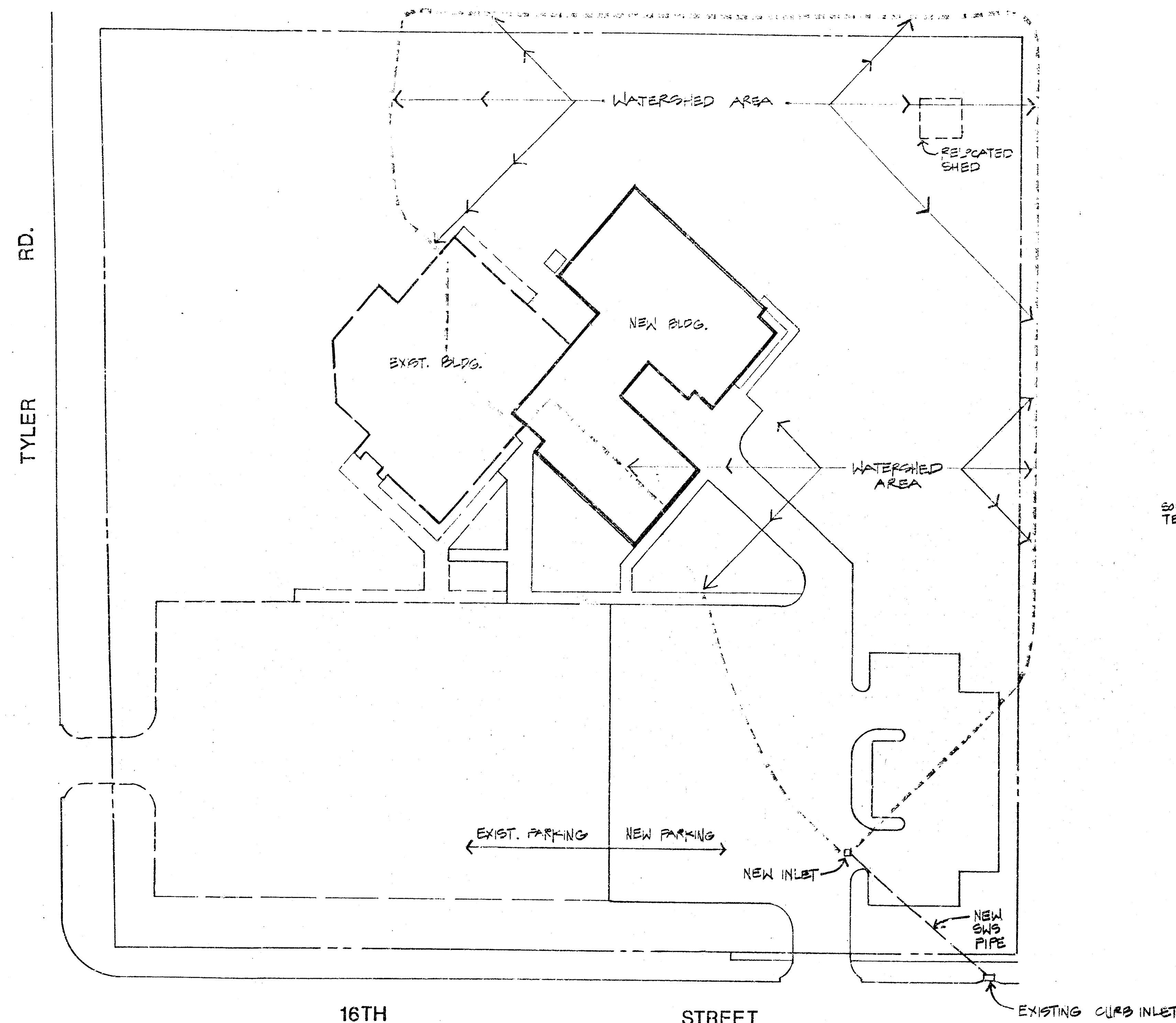
COVENANT PRESBYTERIAN CHURCH
WICHITA, KANSAS

WICHITA, KANSAS

REV. BORN DATE

2507.00

28 JANUARY 1994



16TH STREET
NORTH
SITE PLAN
1"=40'-0"

STORM WATER RUNOFF CALCULATIONS (RATIONAL METHOD)

30,181 S.F. ASPHALT PAVEMENT/CONCRETE PAVEMENT/ROOFS
58,885 S.F. LAWN
30,181 x .95 (RUNOFF COEFFICIENT) = 28,672
58,885 x .35 " = 20,610
49,282 S.F. ADJUSTED GROSS AREA

$$Q = ACI$$

Q = THE RUNOFF OF THE AREA, IN CUBIC FEET PER SECOND
A = THE AREA TO BE DRAINED, IN ACRES
C = THE COEFFICIENT OF RUNOFF
I = THE INTENSITY OF RAINFALL, IN INCHES PER HOUR

$$Q = ACI$$

$$Q = 1.13 \text{ (AREA X COEFFICIENT) X 4 (RAINFALL INTENSITY)}$$

$$Q = 4.52 \text{ FT}^3/\text{SEC.}$$

@ 1% SLOPE - 15" PIPE SIZE

- NOTES
- PIPE SIZE WAS DETERMINED BY MANNING'S PIPE FLOW CHART.
 - MAINTENANCE OF SWS PIPE IS TO BE BY OWNER.

