

(316) 262-1497

Mr. Chris Breitenstein
Drainage and Flood Control Engineer
City of Wichita, 455 North Main
Wichita, Kansas 67202

DATE	1-3-87	FILE NO.	1256
ATTENTION	Burlington Northern Industrial Center - Drainage Plan		

GENTLEMEN:
WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via _____ line following items:
☒ Shop drawings ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ Design Calculations

CURVES	DATE	NO.	DESCRIPTION
1	12-23	1	Drainage Plan
1	12-14	2	
1	12-23	1	Design Calculations

THESE ARE TRANSMITTED AS CHECKED BELOW:
☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS:
Please call _____ as soon as you have reviewed this plan.

COPY TO: _____ SIGNED: _____

DA #7A 8.65 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

Q₁₀₀ = 43.77 x 0.35 x 3.35 = 59.0 cfs
Q₂ = 43.77 x 0.23 x 1.05 = 10.6 cfs
Q = 3.087 L H^{3/2} 3.087 L (1.5^{3/2}) = 59 L = 10.4'
Q = 3.087 L H^{3/2} 4 = 0.02
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7B 11.92 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7C 35 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7D 35 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7E 35 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7F 35 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7G 35 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #7H 35 AC
I = 1.2 @ 70 ft/s
750' @ 1.2 = 10.1 MIN TC = 62.5 + 10.1 = 72.6 MIN
I₂ = 1.05 I₁₀₀ = 3.35
Q₁₀₀ = 59.0 cfs
Q₂ = 10.6 cfs
Q = 3.087 L H^{3/2} 4 = 0.02

DA #12 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #13 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #14 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #15 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #16 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #17 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #18 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #19 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #20 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #21 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #22 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #23 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #24 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #25 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #26 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #12 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #13 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #14 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #15 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #16 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #17 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #18 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #19 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #20 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #21 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #22 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #23 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #24 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #25 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #26 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #12 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #13 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #14 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #15 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #16 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #17 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #18 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #19 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #20 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #21 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #22 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #23 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #24 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #25 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

DA #26 8.64 AC
V = 1.2 @ 70 ft/s (SEE GRADE CHANNEL B)
750' @ 1.2 = 10.1 MIN TC = 52.4 + 10.1 = 62.5 MIN.
I₂ = 1.05 I₁₀₀ = 3.35

PROJECT: _____

DESIGNER: _____

DATE: _____

HYDROLOGIC AND CHANNEL INFORMATION

Q₁ = _____

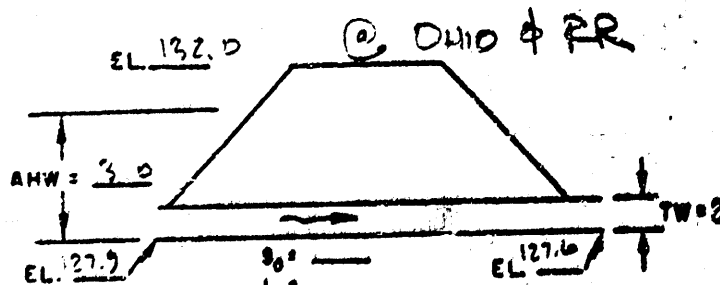
Q₂ = _____

Q₁₀₀ = _____

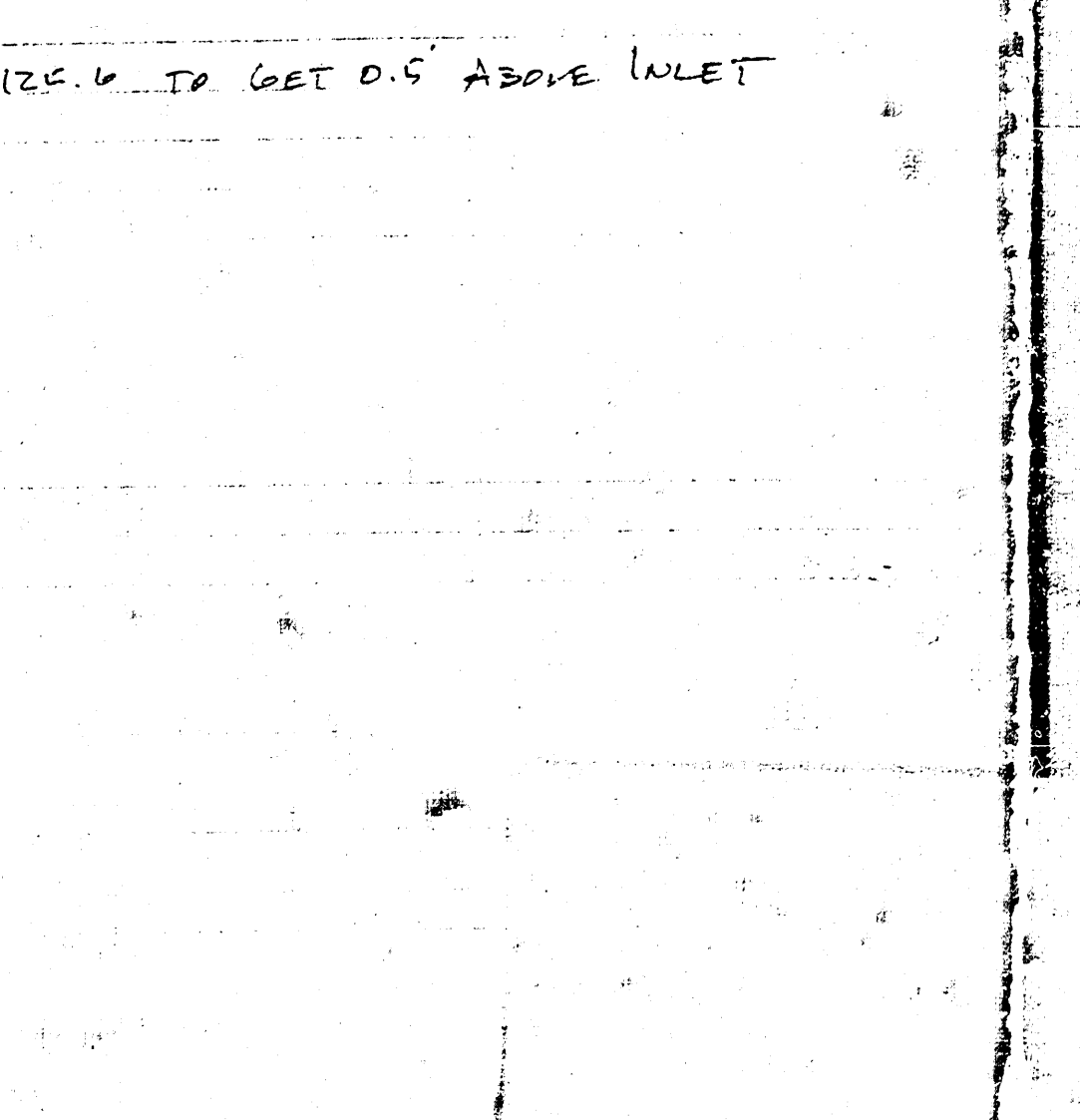
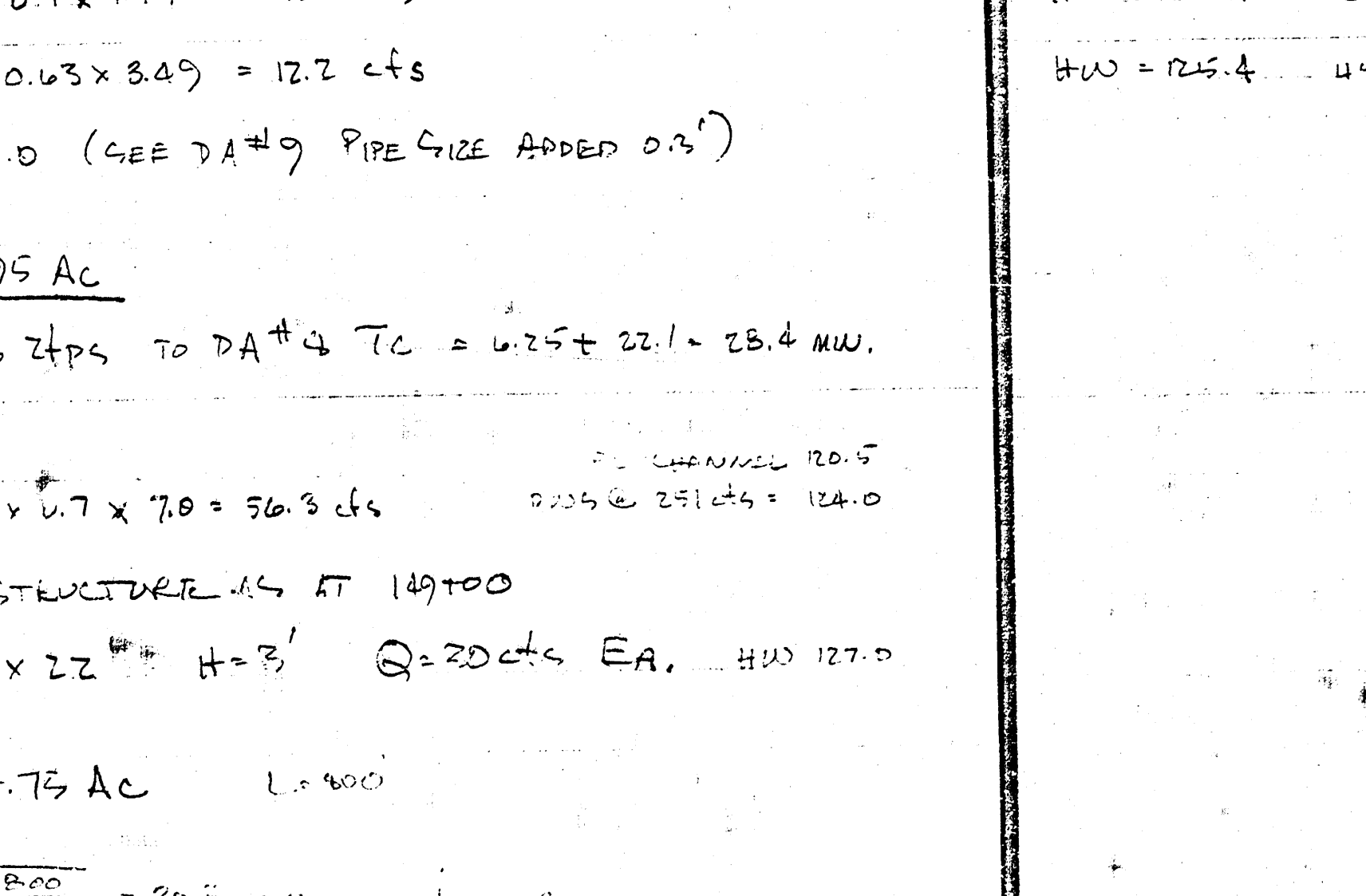
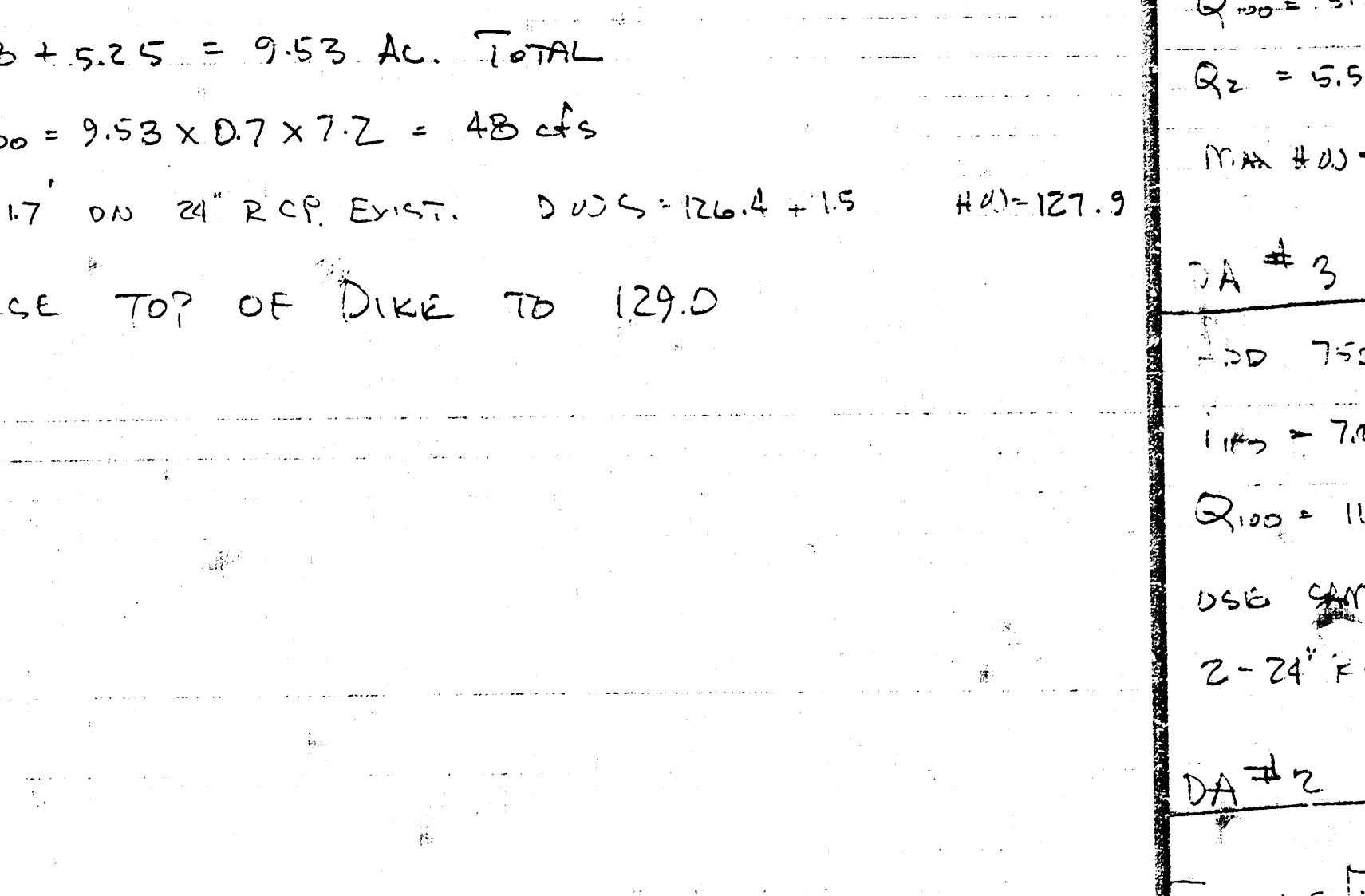
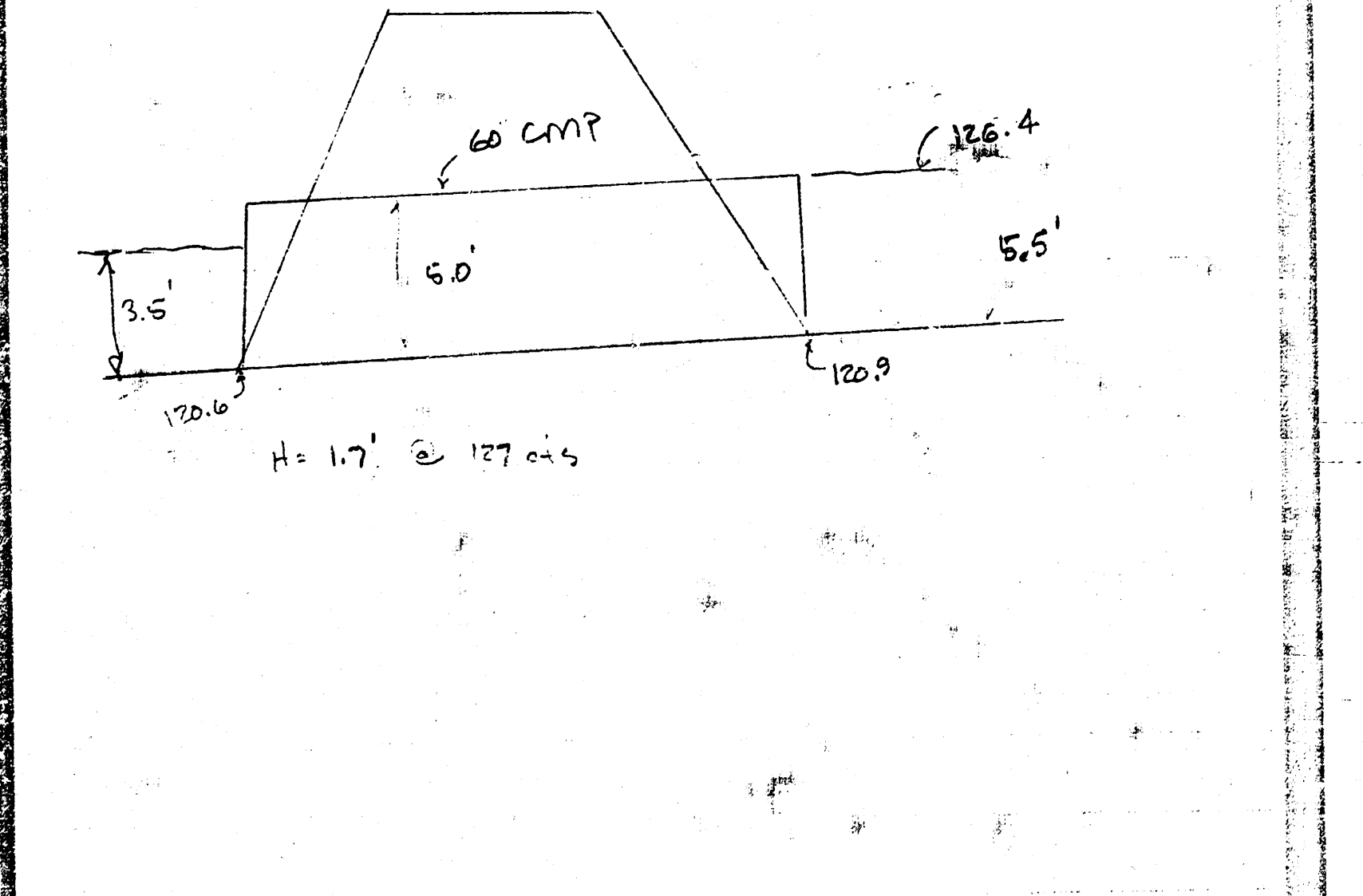
Q₂₀₀ = _____

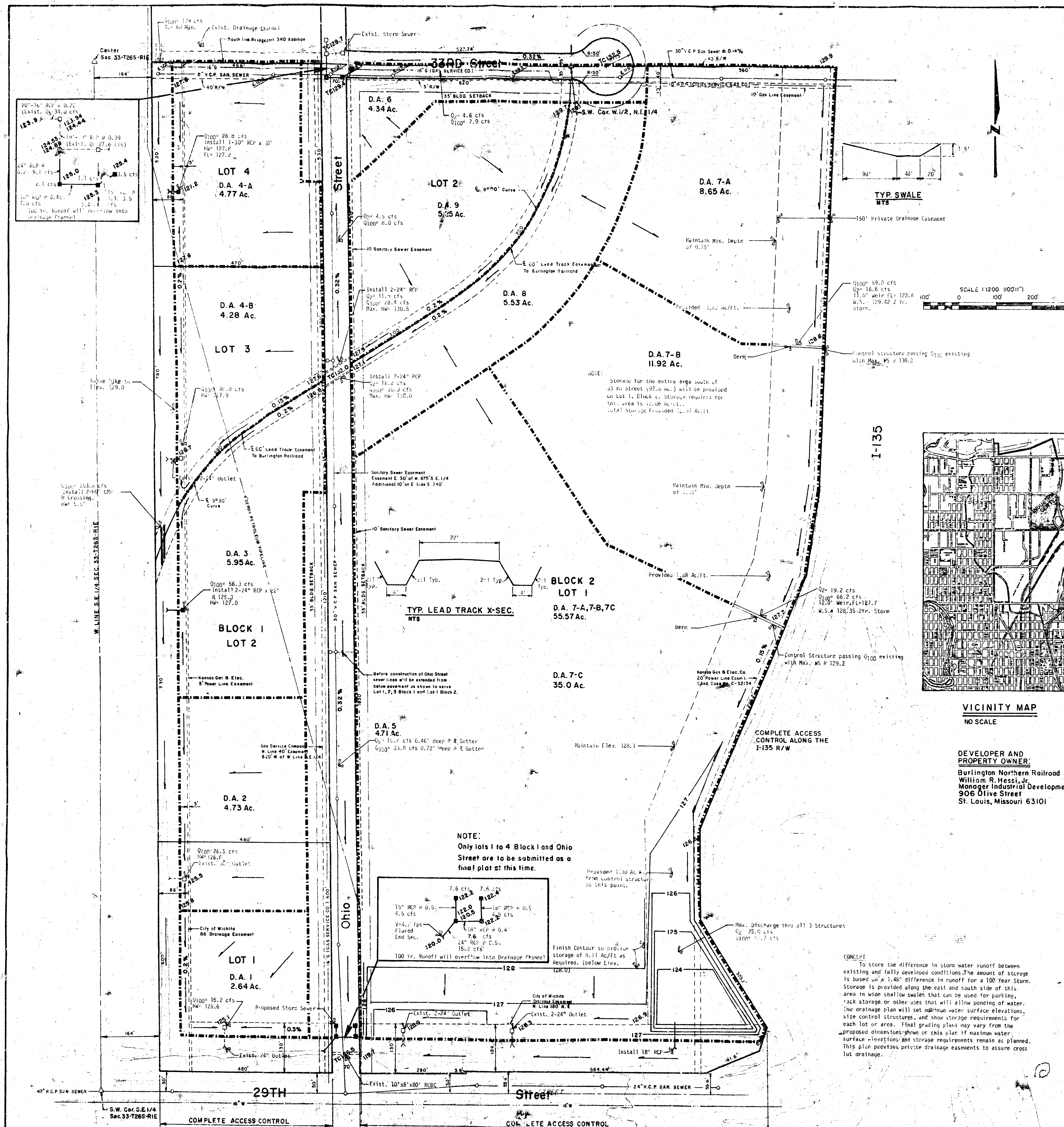
BREACH

STATION: _____



HEADWATER COMPUTATION	INLET CONT.	OUTLET CONT.	DRAINAGE AREA	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY	WATERWAY
-----------------------	-------------	--------------	---------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------





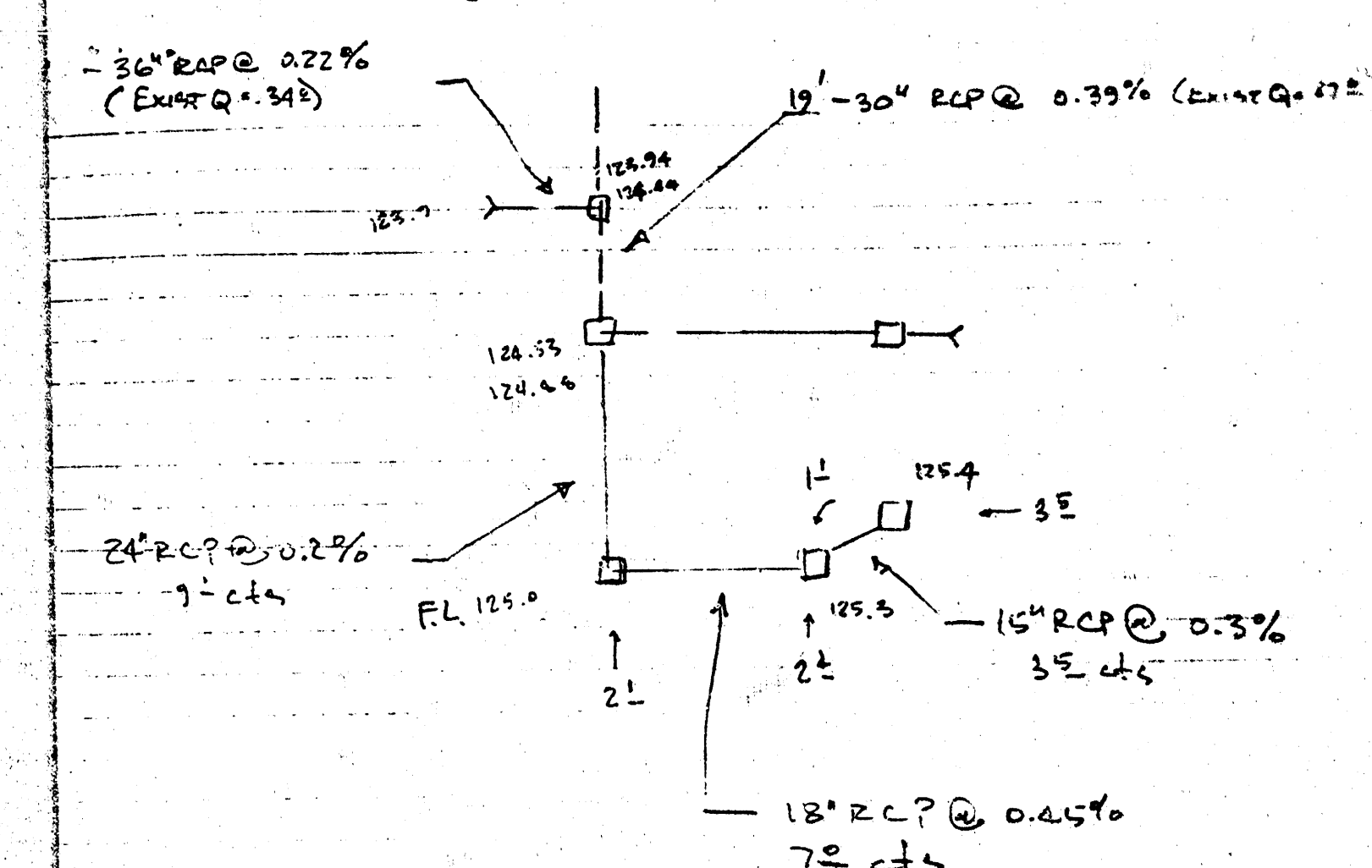
DRAINAGE PLAN BURLINGTON NORTHERN INDUSTRIAL CENTER



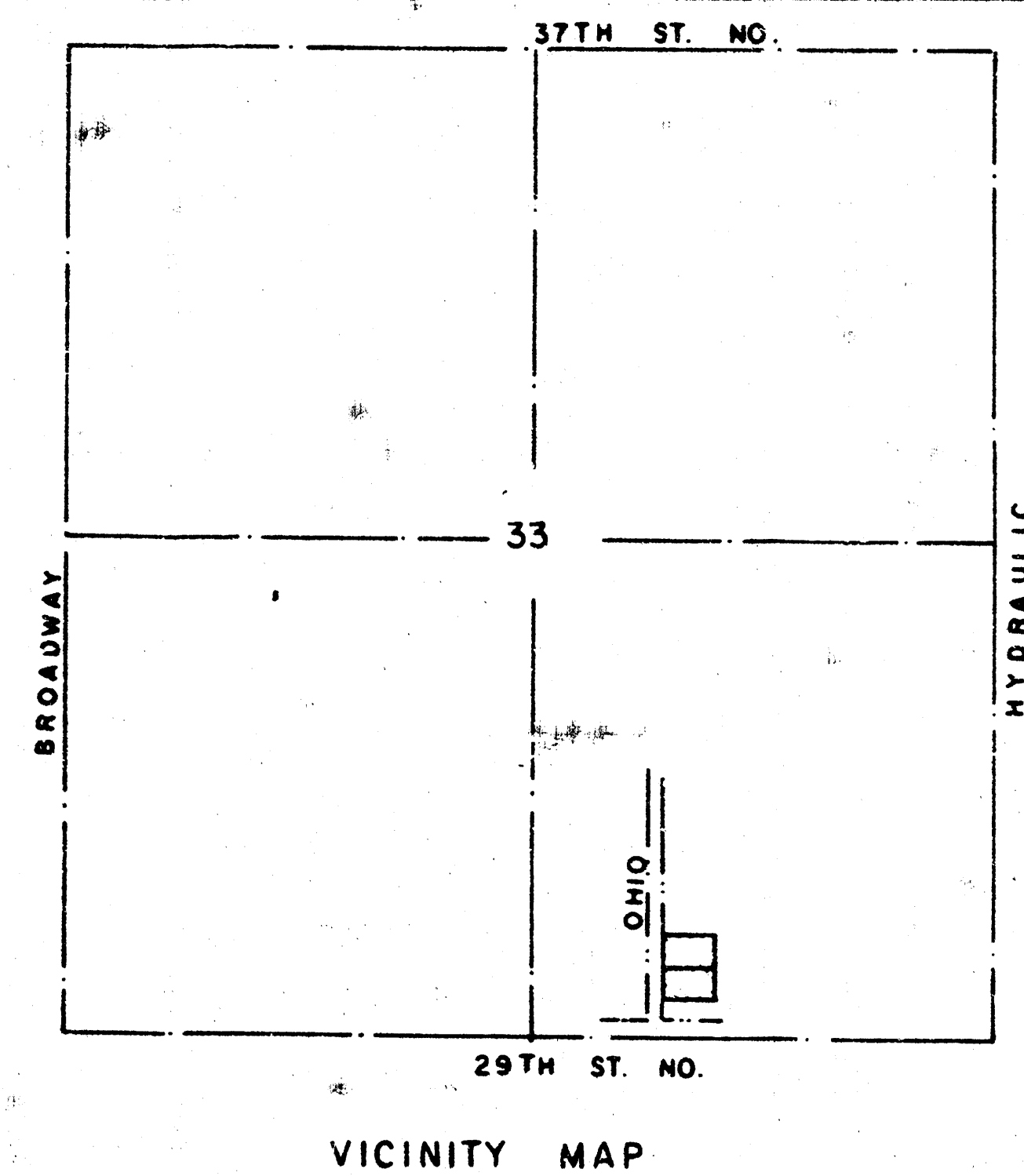
DA # 5 4.71 Ac
Assume Average Flow 1.5 ft/s
1730 @ 1.5 ft/s = 19.2 min
V = 15 min $1.5 = 5.21$ $100 = 2.95$ $C = 93$
 $C = 0.62$ $C_{100} = 0.90$ (BIRMINGHAM) 85% 100 ft
 $Q = 4.71 \times 0.62 \times 5.21 = 15.2$ cfs
 $Q_{100} = 4.71 \times 0.90 \times 5.21 = 33.4$ cfs

DA # 6 4.77 Ac
 $V = 12$ min FROM PREVIOUS STORM SEWER
 $1.5 = 3.01$ $100 = 5.22$ $C = 97$
 $Q = 4.77 \times 0.7 \times 3.01 = 9.1$ cfs
 $Q_{100} = 4.77 \times 0.7 \times 5.22 = 15.9$ cfs

DA # 4-A 4.77 Ac
 $V = 15$ min $1.5 = 5.21$ $100 = 2.95$ $C = 93$
 $Q = 4.77 \times 0.7 \times 5.21 = 15.2$ cfs
 $Q_{100} = 4.77 \times 0.90 \times 5.21 = 33.4$ cfs



BURLINGTON NORTHERN INDUSTRIAL CENTER
SECOND ADDITION
(Drainage)



DRAINAGE PLAN
BURLINGTON NORTHERN INDUSTRIAL
CENTER SECOND ADDITION

FOR:
CLARKLAND, INC.

LOWELL D. HIGH, L.S.
APRIL 24, 1986