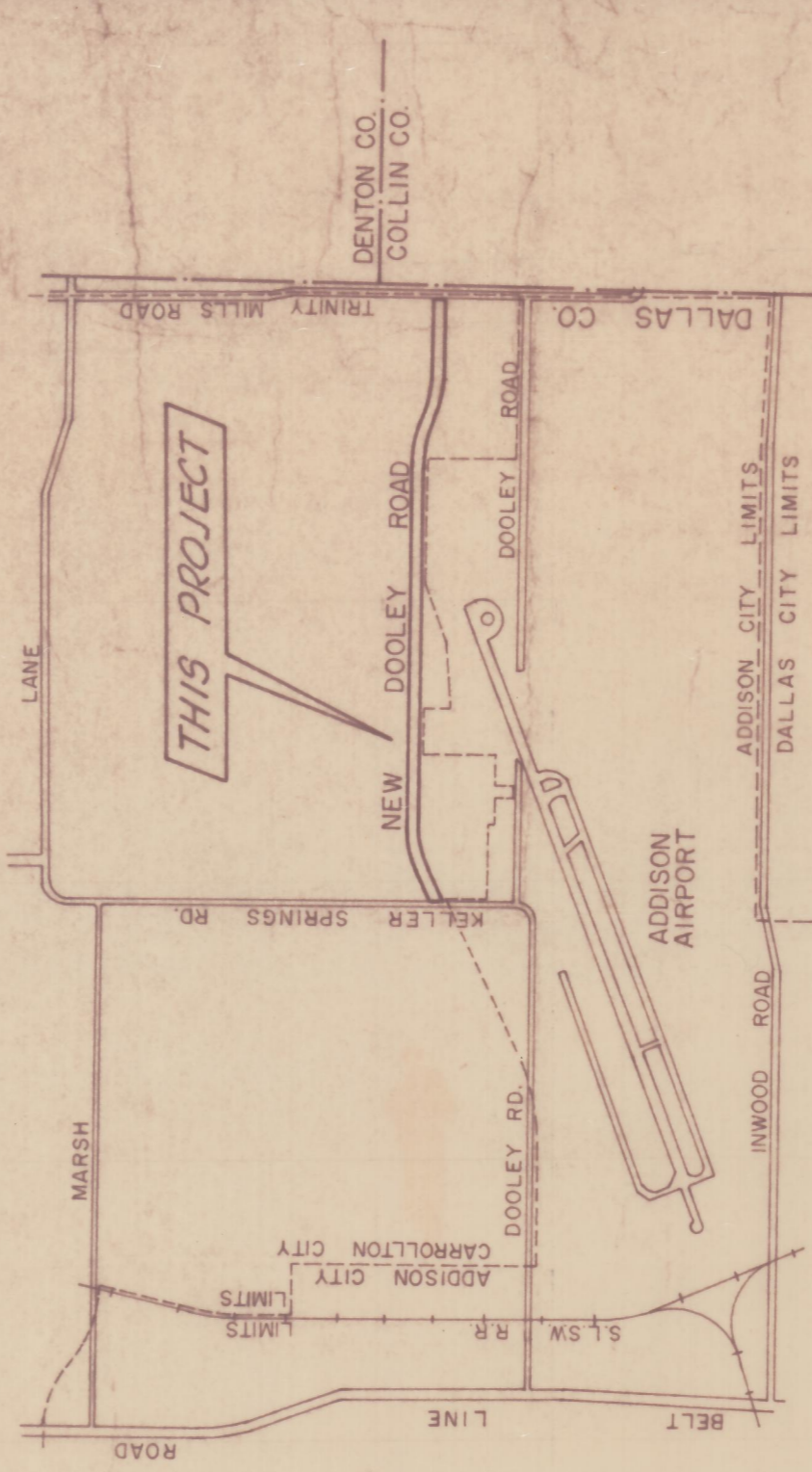
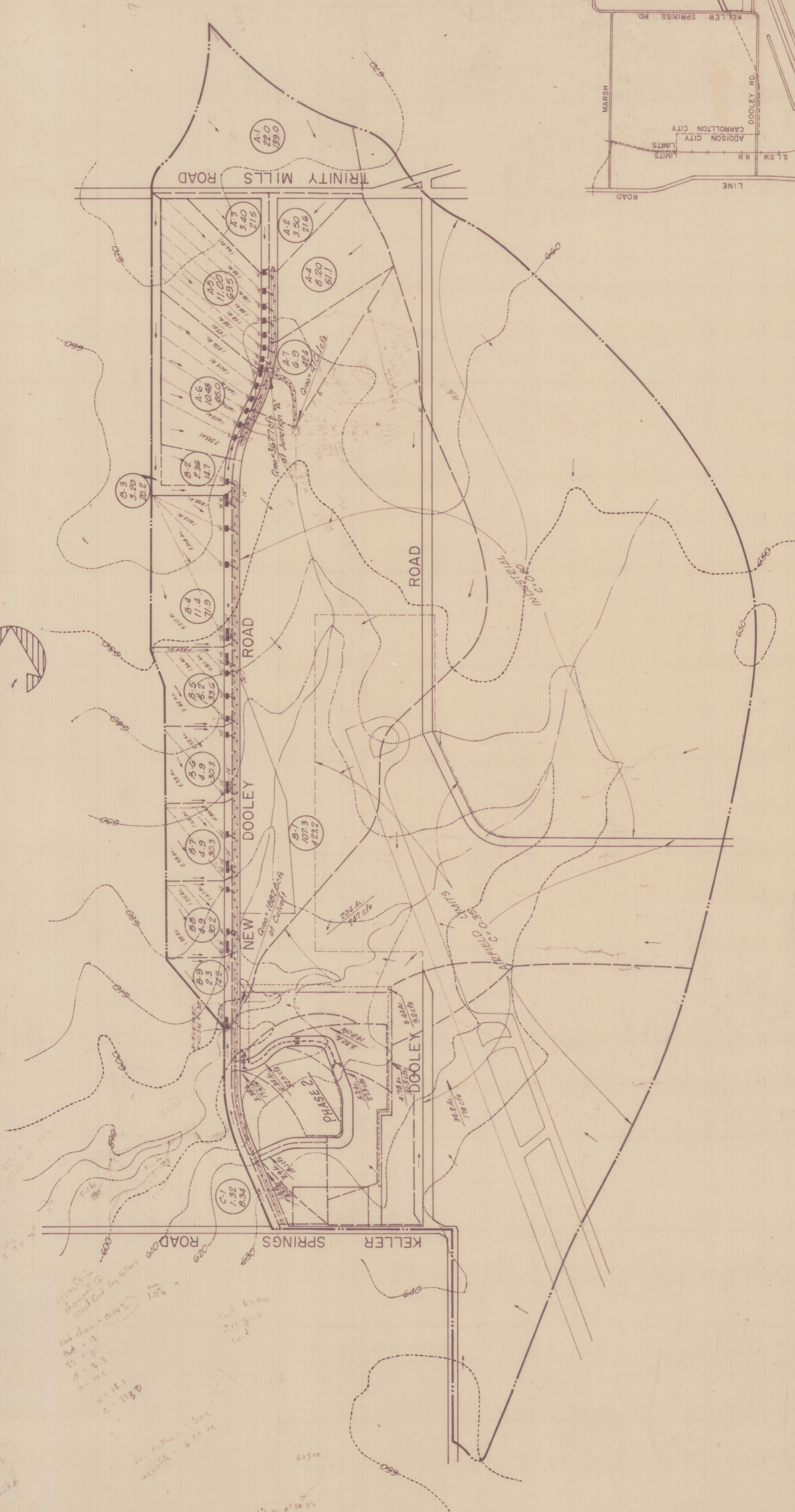


NOTE: All Storm Sewer Laterals
Are 21" & Unless Otherwise
Noted.



DRAINAGE VICINITY MAP

DRAINAGE AREA MAP
BELTWOOD NORTH, PHASE 2
ADDISON, TEXAS

PAVING & DRAINAGE PLANS
DOOLEY ROAD

CITY OF ADDISON, TEXAS
DATE 4-77 SCALE 1" = 400'
JOB NO. 2355 STEMMONS FRWY. SUITE 1004 - DALLAS, TEXAS
SHEET 2 OF 10
DONALD C. MOREAU - CONSULTING ENGINEER
As Built - 7-20-77

MIN. STREET CAPACITY
1425 @ 0.80%
w/ 1 LANE OPEN

PHASE 2 DRAINAGE CRITERIA

25 Yr. Frequency From Bulletin T.P. 25
Time of Concentration (in Phase 2) = 10 Min.
 $T_p = 6.6 \text{ min/hr.}$, $C = 0.80$
Time of Concentration (Air-field, Offsite Industrial) = 31.3 Min.
 $T_{100} = 7.9 \text{ min/hr.}$, $C = 0.58$ (Combined)

INLET CALCULATIONS

$Q = C \cdot I \cdot A$
 $Q = 1.52$
 $T_p = 15 \text{ min}$
 $T_{100} = 7.9$
 $Q = 6.32 (A)$

DITCH CALCULATIONS

$Q_{100} = C \cdot I \cdot A$
 $Q = 1.52$
 $T_p = 15 \text{ min}$
 $T_{100} = 7.9$
Drainage Quantities
Adjusted By Local
Flow Time

BOX CULVERT DESIGN

3 BOX 9'x6' C.B.C. w/25' Footboard
 $Q = 1.655 (495) (20) \frac{1}{2} (0.006)^{1/2}$
 $Q = 697.1 \text{ cfs. / each BOX}$
TOTAL CAPACITY = 3 (697.1) = 2091.3 cfs.

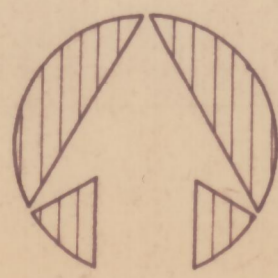
$Q_{100} @ C.B.C. = 1882.0 \text{ cfs.}$
 $T_p = 15 \text{ min.} + 4900 \text{ L.F.} @ 5 \text{ fps} = 31.3 \text{ min.}$
 $T_{100} = 6.3$
 $C = 0.80$ (Area Adjacent To Dooley Rd.)
 $C = 0.55$ (Areas Designated as Park & Air-field)
Actual $C = 0.58$ for Area C-4 from Approx. 144 Ac. Park & Air-field
of 143 Ac. Industrial (Avg. Value)

LEGEND

- (C-1) D.A. NUMBER
- (1.32) AREA IN ACRES
- (8.34) RUNOFF IN C.F.S.
- DRAINAGE AREA LIMITS
- SUB-AREAS
- PROPOSED INLETS
- PROPOSED DITCH

KNOW ALL MEN BY THESE PRESENTS: That I, Donald C. Moreau, do hereby certify that I prepared this plat from actual and accurate survey on the ground and that the corner monuments shown thereon were properly placed under my personal supervision, in accordance with the regulations of the City of Addison, Texas.

STATE OF TEXAS
 COUNTY OF DALLAS
 Donald C. Moreau, P.E.
 Notary Public in and for Dallas County, Texas
 Notary Public in and for Dallas County, Texas
 My commission expires on _____, 1978.



WHERAS: BELTWOOD NORTH VENTURE, previously known as Connell-Dooley Road Joint Venture, T.A. WILLIAMSON and FIRMAN COOK, and DONELSON M. HOUSEMAN, LUDWIG J. ULRICH and AUDREY H. ULRICH, are the owners of a tract of land in the George Symms Survey, Abstract No. 1344, and located in the City of Addison, Dallas County, Texas and being more particularly described as follows:

Beginning at the intersection of the north line of Keller Springs Road 95-feet from the centerline of an original 50-foot right-of-way and the east line of Midway Road (a 100-foot right-of-way) as recorded in Volume 75224, Page 0036 of the Map Records of Dallas County, Texas;

THENCE, N23°38'30"W, 596.15-feet along the east line of Midway Road to the beginning of a curve to the right having a central angle of 23°48'00", a radius of 943.97-feet and a tangent length of 198.92-feet;

THENCE, along the curve 392.11-feet to the end of curve;

THENCE, N 00°09'30"E, 586.36-feet along the east line of Midway Road;

THENCE, N 89°46'00"E, 968.69-feet to a point for corner;

THENCE, South, 369.74-feet to a point for corner;

THENCE, East, 208.70-feet to a point for corner on the west line of Dooley Road;

THENCE, South, 90.94-feet along Dooley Road to a point for corner;

THENCE, West, 208.70-feet to a point for corner;

THENCE, South, 313.10-feet to a point for corner;

THENCE, West, 69.30-feet to a point for corner;

THENCE, South, 156.00-feet to a point for corner;

THENCE, West, 0.26-feet to a point for corner;

THENCE, South, 327.93-feet to a point for corner;

THENCE, S 89°46'09"W, 539.29-feet to a point for corner;

THENCE, S 00°13'00"E, 257.50-feet to the north line of Keller Springs Road;

THENCE, S 89°46'09"W, 44.15-feet to the Point of Beginning and Containing 27.080 acres of land.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT BELTWOOD NORTH VENTURE, T.A. WILLIAMSON and FIRMAN COOK, DONELSON M. HOUSEMAN, LUDWIG J. ULRICH and AUDREY H. ULRICH, do hereby adopt this plat designating the herein described property as BELTWOOD NORTH, PHASE 2, an additional plat shown thereon are hereby reserved for the purposes as indicated. The utility easements shown thereon are hereby reserved for the purposes as indicated. The utility easements shall be open to the public, fire and police units, garbage and rubbish collection agencies and other public and private utilities for each particular use. The maintenance of any utility easement shall be the responsibility of the property owner. No buildings, fences, trees, shrubs, or other improvements shall be constructed, reconstructed, or placed upon, over or across the easements as shown. Said easements being reserved for the mutual use and accommodation of all public utilities using or desiring to use same. All other improvements or growths which in any way may endanger or interfere with the construction, maintenance or operation of any utility systems shall have the right to be removed and kept removed all or parts of any buildings, fences, trees, shrubs and other improvements or growths which in any way may endanger or interfere with the construction, maintenance or operation of any utility systems on the easements for the purpose of constructing, reconstructing, inspecting, maintaining, repairing or otherwise operating any utility system. Any public utility shall have the right to dig, construct, reconstruct, maintain, repair or otherwise operate any utility system in and over private property for the purpose of reading meters and performing any maintenance and service required or ordinarily performed by that utility.

This plat approved subject to all platting ordinances, rules, regulations and resolution of the City of Addison, Texas.

WITNESS MY HAND AT DALLAS, TEXAS this _____ day of _____, 1978.

Ludwig J. Ulrich
 Audrey H. Ulrich
 T. A. Williamson
 Firman Cook

Connell Development Company (Manager)
 C. W. Foose, President
 Donelson M. Houseman

STATE OF TEXAS
 COUNTY OF DALLAS
 Before me, the undersigned, a Notary Public in and for said County and State, on this day personally appeared Ludwig J. Ulrich and Audrey H. Ulrich, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purpose and considerations therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 1978.

Notary Public in and for Dallas County, Texas.

STATE OF TEXAS
 COUNTY OF DALLAS
 Before me, the undersigned, a Notary Public in and for said County and State, on this day personally appeared T. A. Williamson and Firman Cook, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 1978.

Notary Public in and for Dallas County, Texas.

STATE OF TEXAS
 COUNTY OF DALLAS
 Before me, the undersigned, a Notary Public in and for said County and State, on this day personally appeared C. W. Foose, President of Connell Development Company, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 1978.

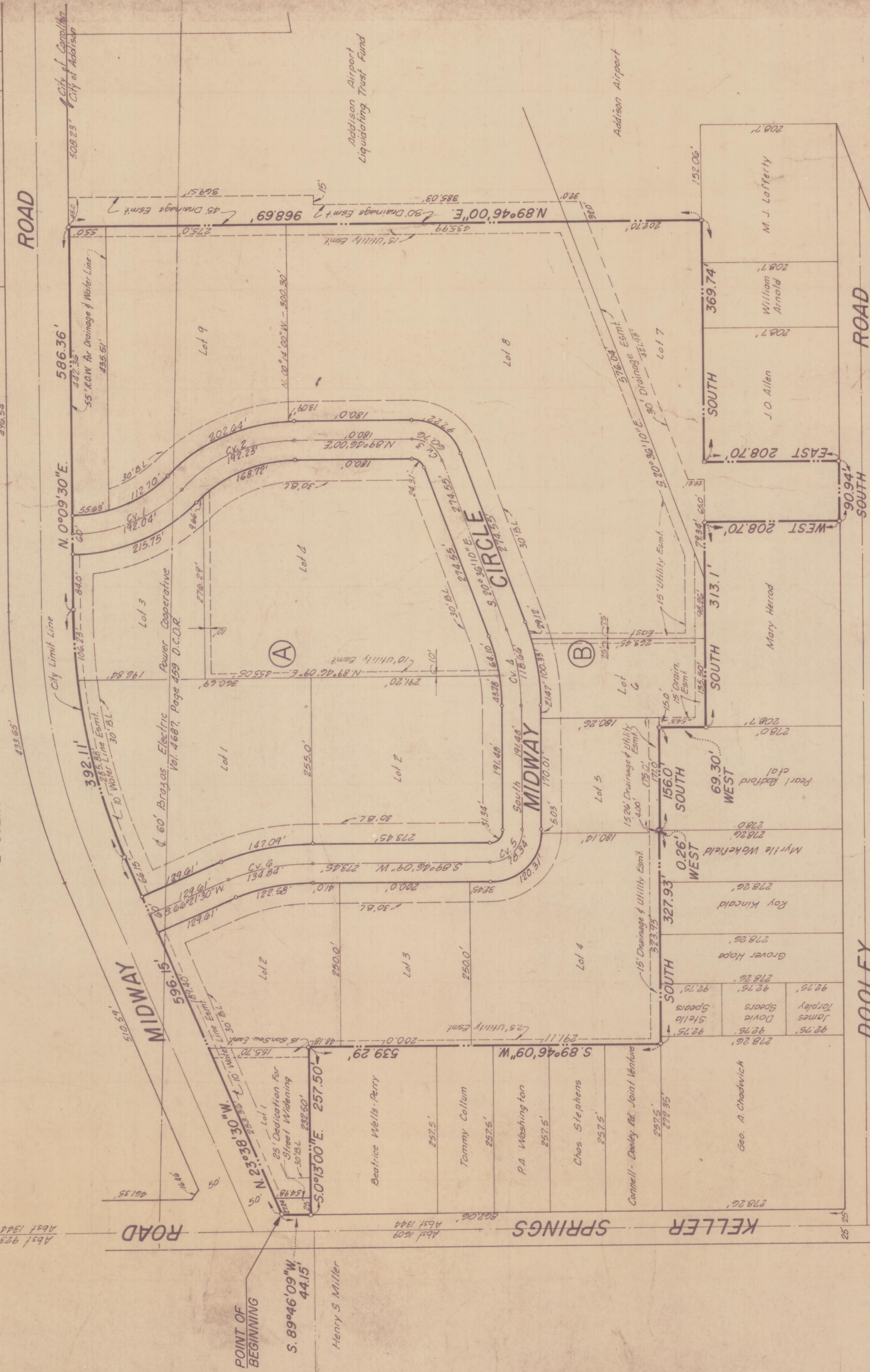
Notary Public in and for Dallas County, Texas.

STATE OF TEXAS
 COUNTY OF DALLAS
 Before me, the undersigned, a Notary Public in and for said County and State, on this day personally appeared Donelson M. Houseman, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and considerations therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 1978.

Notary Public in and for Dallas County, Texas.

BELTWOOD NORTH PHASE 1



CURVE DATA

INNER	OUTER	INNER	OUTER
Δ = 23°48'00"	20°38'10"	Δ = 23°48'00"	20°38'10"
R = 943.97'	300.00'	R = 943.97'	300.00'
T = 198.92'	59.89'	T = 198.92'	59.89'
L = 392.11'	118.66'	L = 392.11'	118.66'
	89°46'09"		89°46'09"
	50.00'		50.00'
	49.80'		49.80'
	18.50'		18.50'
	31.54'		31.54'
	25°24'59"		25°24'59"
	380.00'		380.00'
	55.93'		55.93'
	182.84'		182.84'

FINAL PLAT

BELTWOOD NORTH PHASE 2

GEO. SYMS SURVEY, ABSTRACT 1344
 ADDISON, TEXAS

SEPT. 1978 SCALE 1" = 100'
 DONALD C. MOREAU · CONSULTING ENGINEER
 2335 STEMMONS PKWY., SUITE 1004 DALLAS, TEXAS 75207

KNOW ALL MEN BY THESE PRESENTS: That I, Donald C. Moreau, do hereby certify that I prepared this plat from actual and accurate survey on the ground and that the corner monuments shown thereon were properly placed under my personal supervision, in accordance with the regulations of the City of Addison, Texas.

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 COUNTY OF DALLAS
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 Notary Public in and for Dallas County, Texas
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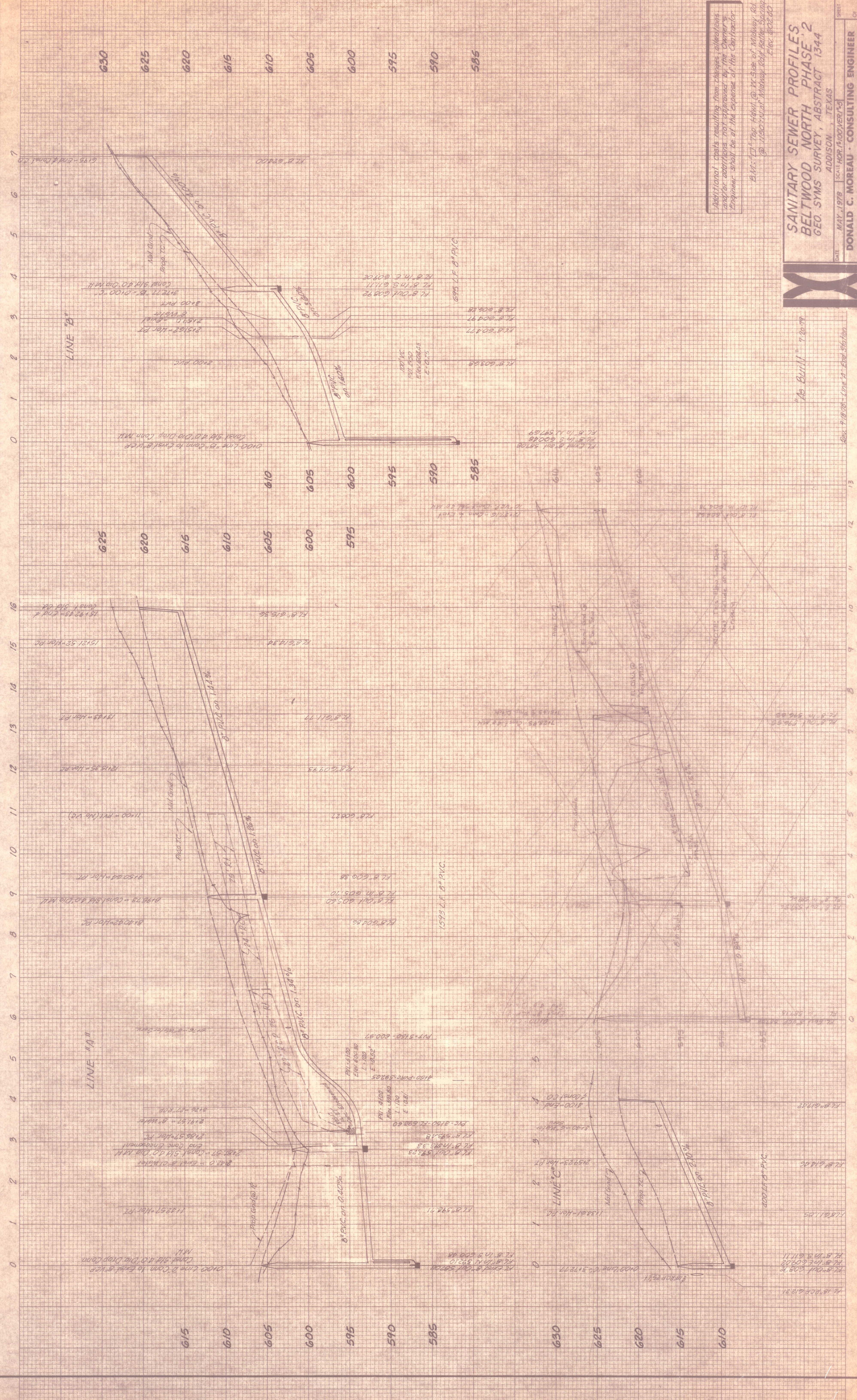
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GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 1978.

Notary Public in and for Dallas County, Texas.



Additional costs resulting from changes, alterations and/or additions not approved by the Owner's Engineer shall be at the expense of the Contractor.

B.M.: Top of Hwy. @ N. Side of Midway Rd.
 @ Intersection of Midway East & Main Streets
 Elev. 602.40

SANITARY SEWER PROFILES
BELTWOOD NORTH PHASE '2
 GEO. SYMS SURVEY, ABSTRACT 1344

DATE: MAY, 1978 SCALE: HORIZONTAL - 1"=40' VERTICAL - 1"=4'

DONALD C. MOREAU - CONSULTING ENGINEER
 2555 STEMMONS FRYW. • SUITE 1004 • DALLAS, TEXAS • 638-8430

"As Built" 7/20/79