LEEWOOD VILLAGE AT NORTHROCK

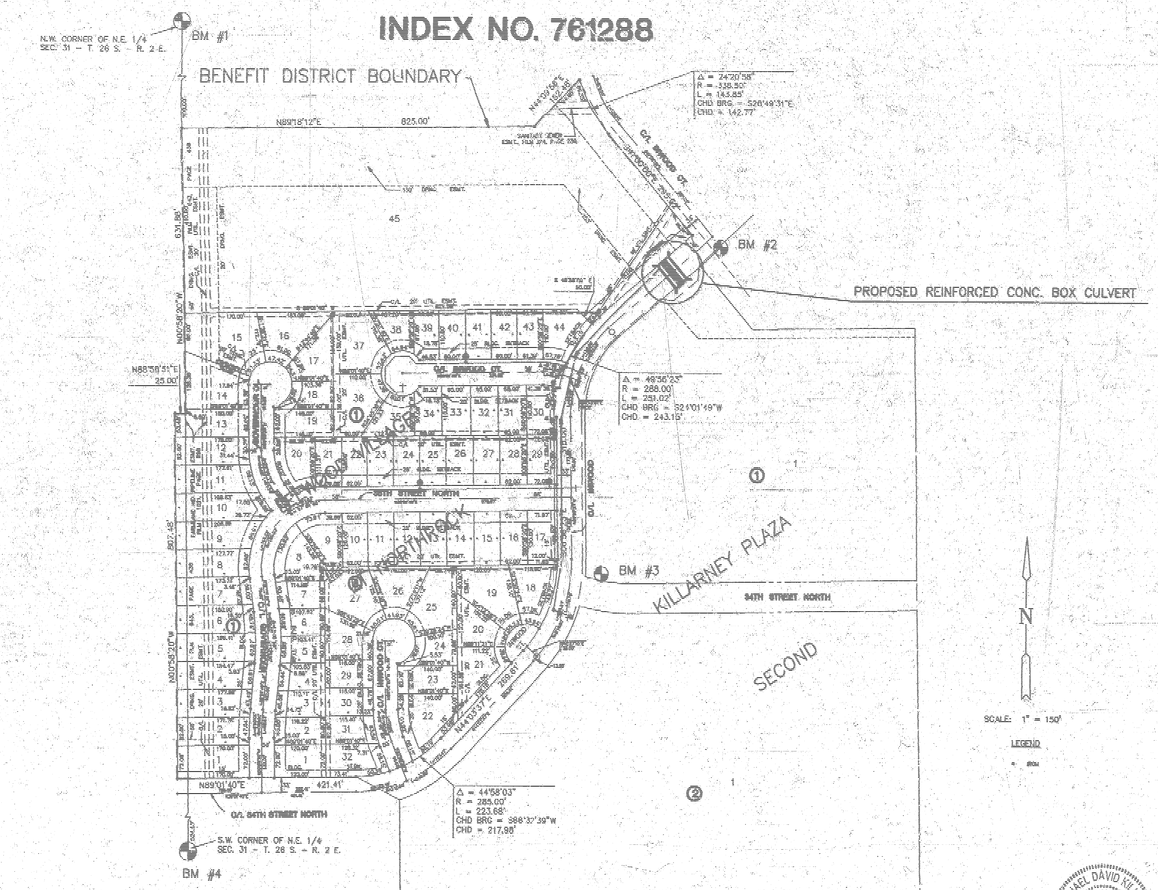
REINFORCED CONCRETE BOX CULVERT

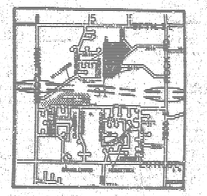
ON INWOOD

PROJECT NO. 472-82223

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX NO. 761288





LOCATION MAP

GENERAL NOTES

1. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA CONCRETE PAVEMENT AND ASPHALTIC CONCRETE PAVE– SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE–ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE–ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

3. TRANSITION CURB FROM FULL HEIGHT COMBINATION CURB AND GUTTER TO ROLL TYPE COMBINATION CURB AND GUTTER IS TO BE PAID AS BID FOR LINEAL FEET COMBINED CURB AND GUTTER (3 5/8" ROLL).

4. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

5. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY–EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE–CALL	1–800–344–7233
	OR 687–2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY	1–571–2115
CABLEVISION	262–4270 OR 263–2061
KPL GAS SERVICE COMPANY	263–7511
KANSAS GAS & ELECTRIC	264–1141
CITY OF WICHITA WATER DEPARTMENT	268–4908
ARKLA GAS COMPANY	942–8350 OR 263–8161
CITY OF WICHITA SEWER MAINTENANCE	268–4071

6. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY,APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DIPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOACTION.

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN SHEET
3–5	RCB DETAILS
6	PAVEMENT DETAILS
7	FINAL PLAT

BENCHMARKS

BM #1 CITY DISC 30' N. & 34' W. OF 1/4 COR. 37TH ST. N. & GOVERNOUR.
ELEV. = 185.54

BM #2 "L" CUT ON T.C. AT WEST END OF N.W. RETURN 36TH ST. N. & INWOOD.
ELEV. = 183.53

BM #3 TOP OF "T" POST 2' E. OF S.W.COR. LOT 1,BLK.1 KILLARNEY PLAZA 2ND
ELEV. = 192.00

BM #4 CONC. NAIL DRIVEN ON N. EDGE OF MH 72' E. OF CTR. SECTION 31–T26S–2E.
ELEV. = 194.16

MICHAEL DAVID KILIAN LICENSED 12160 KANSAS PROFESSIONAL ENGINEER

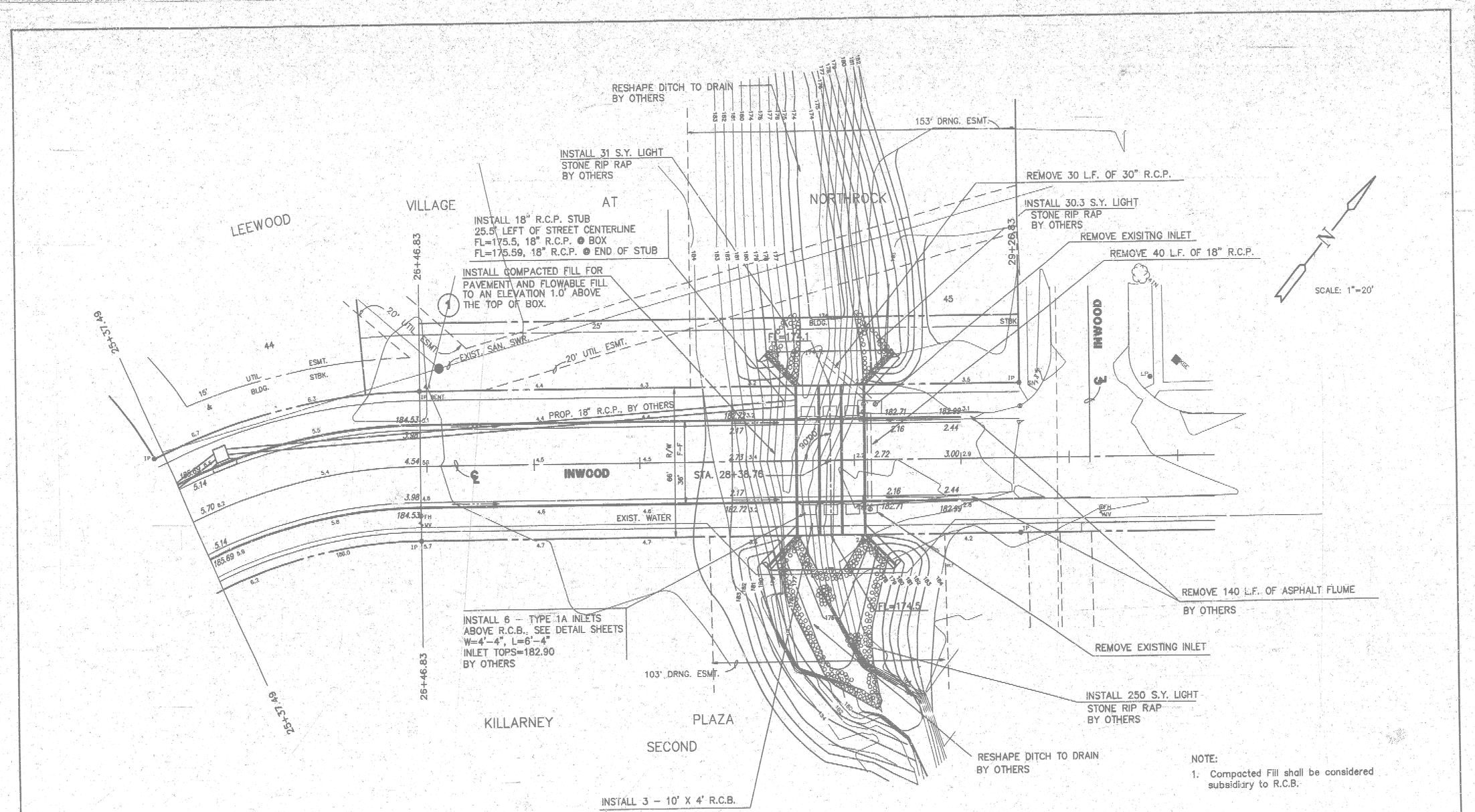
LEEWOOD VILLAGE AT NORTHROCK

R.C.B. ON INWOOD

Design	G.J.A.
Drawn by	K.K.L.
Checked by	G.J.A.
Date	4/92
Job no.	9192RCB1
Sheet	1
of	7

MID–KANSAS ENGINEERING CONSULTANTS INC.
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226 (316) 636–5566

S1–92–160–E



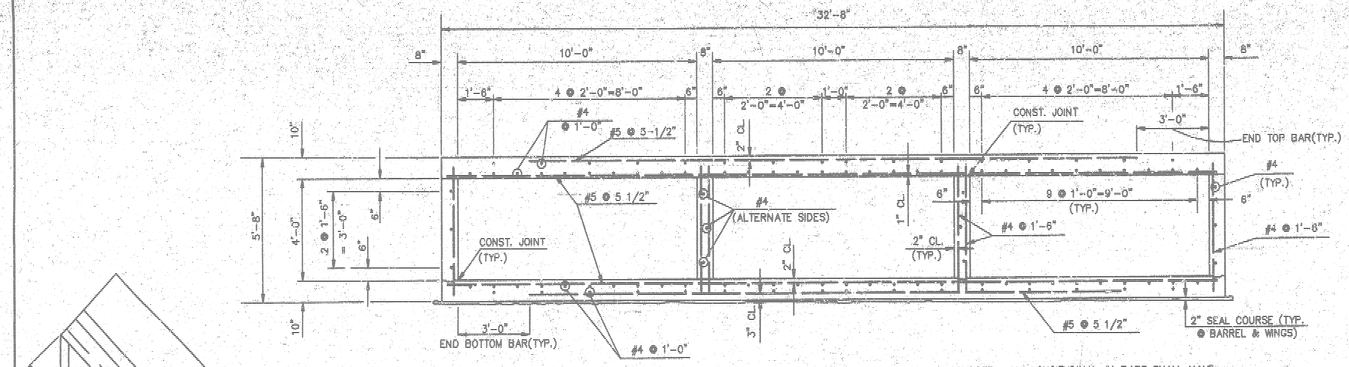
NOTE:

1. Compacted Fill shall be considered subsidiary to R.C.B.

	LEEWOOD VILLAGE AT NORTHROCK REINFORCED CONCRETE BOX
Design	GJA
Drawn by	KKL
Checked by	GJA
Date	4/92
Job no.	9192RC84
Sheet	2
of	7

MID-KANSAS ENGINEERING CONSULTANTS, INC.
3500 N. ROCK ROAD #600
WICHITA, KANSAS 67226 PH. 636-5566

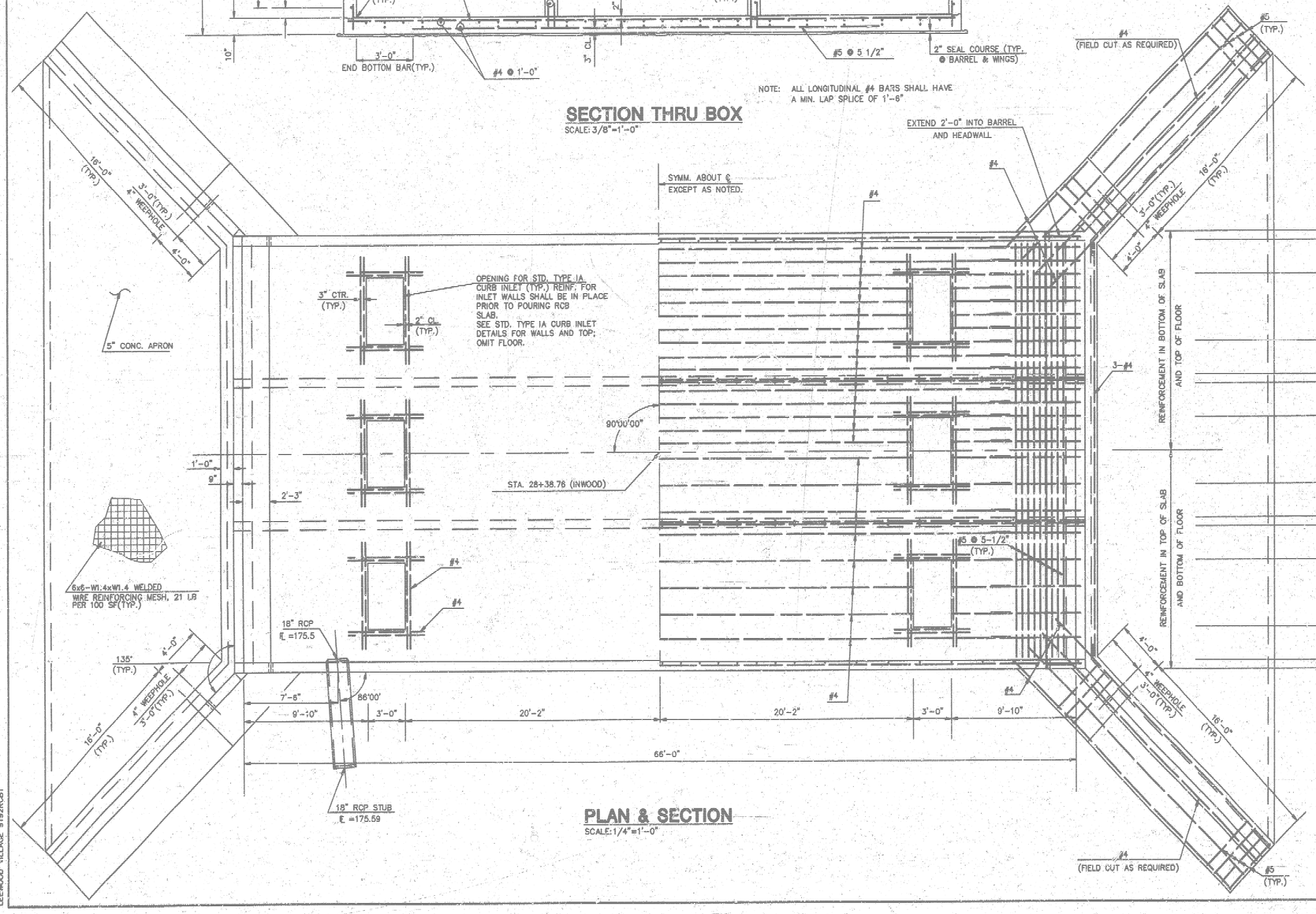
91-92-160-E



NOTE: ALL LONGITUDINAL #4 BARS SHALL HAVE A MIN. LAP SPLICE OF 1'-6"

SECTION THRU BOX

SCALE: 3/8"=1'-0"



PLAN & SECTION

SCALE: 1/4"=1'-0"

GENERAL NOTES:

LOADING: H20-44, AASHTO Specifications, Edition 1989
UNIT STRESSES: f'c = 4,000 psi; fs = 24,000 psi (GR. 60)
The concrete mix specified for the City of Wichita Concrete Pavement shall be used throughout. Bevel all exposed edges with a 3/4" triangular moulding, unless otherwise noted.

Coarse Aggregate shall be deposited behind each weephole to occupy a space extending 15" in all directions above the weephole flowline.

Construction joints shall be formed only at locations shown or as approved by the Engineer.

A Seal Course of 2" of concrete shall be constructed under the entire floor slab and wing footings. No reinforcing steel shall be placed until the Seal Course has gained sufficent strength to permit working upon it without injury. This item shall not be paid directly but shall be subsidiary to other items.

The barrel of the culvet may be formed of precast units approved by the Engineer with the headwalls cast-in-place as shown on this drawing.

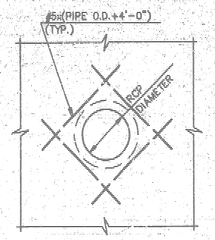
The Engineer will review the reinforcing steel shop drawings.

LEEWOOD VILLAGE 9192RCB1

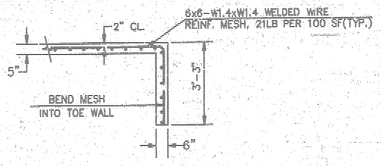
REINFORCED CONCRETE BOX PLAN/SECTION

Design	MDK
Drawn by	ALN & WNJ
Checked by	KJS
Date	4/92
Job no.	9192RCB1
Sheet	3 of 7

MID-KANSAS ENGINEERING CONSULTANTS, INC.
3500 N. ROCK ROAD #300
WICHITA, KANSAS 67226 PH. 636-5566

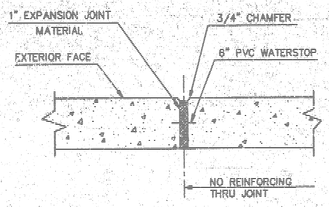


REINF. AT PIPE THRU REINF. CONC. BOX



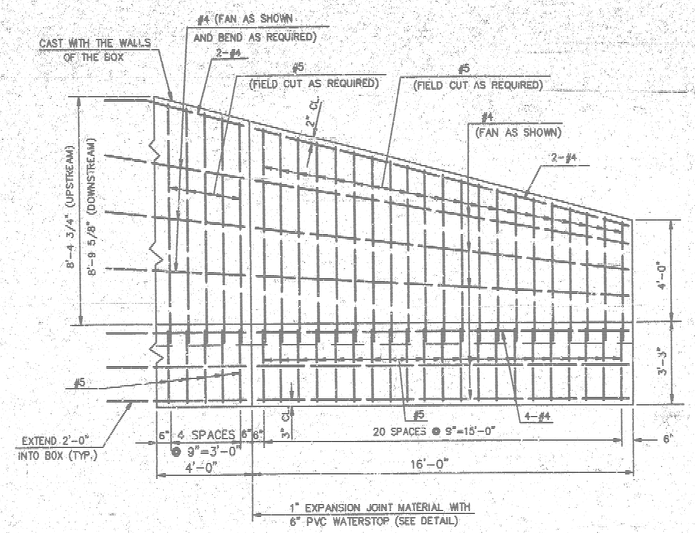
SECTION THRU APRON

SCALE: 3/8"=1'-0"



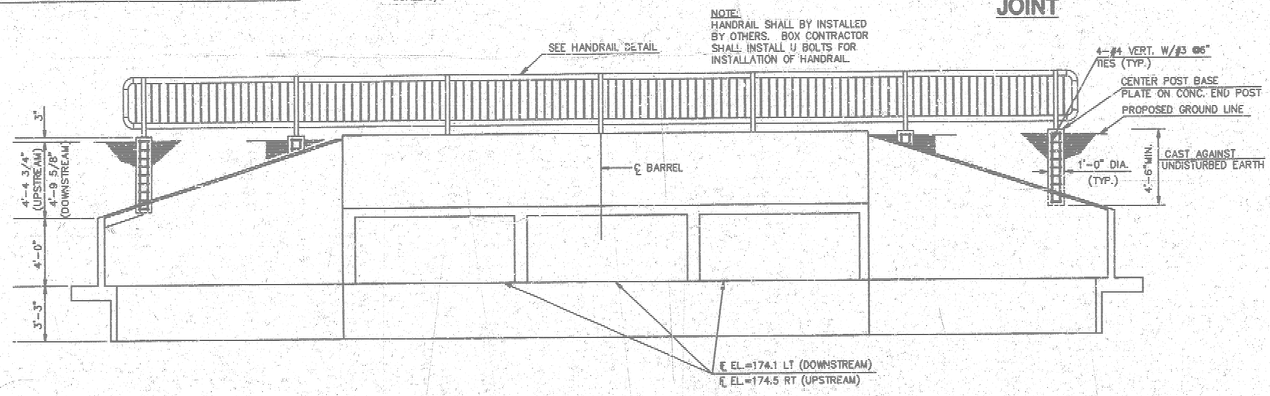
NOTE:
PVC WATERSTOP ONLY REQUIRED IN VERTICAL WALL ELSEWHERE JOINT SHALL BE 1" EXP. JOINT MATERIAL. WALL JOINT AND PVC WATERSTOP SUBSIDIARY TO OTHER ITEMS.

TYPICAL WINGWALL JOINT



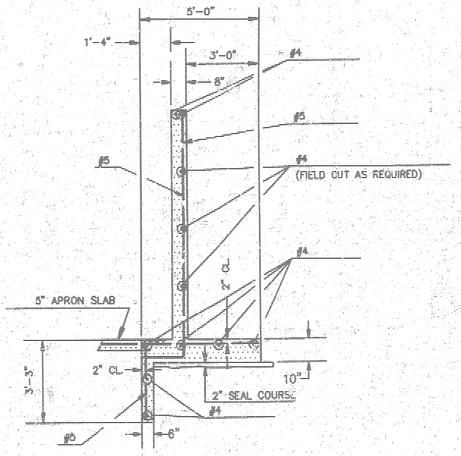
ELEVATION OF WINGWALL

SCALE: 3/8"=1'-0"



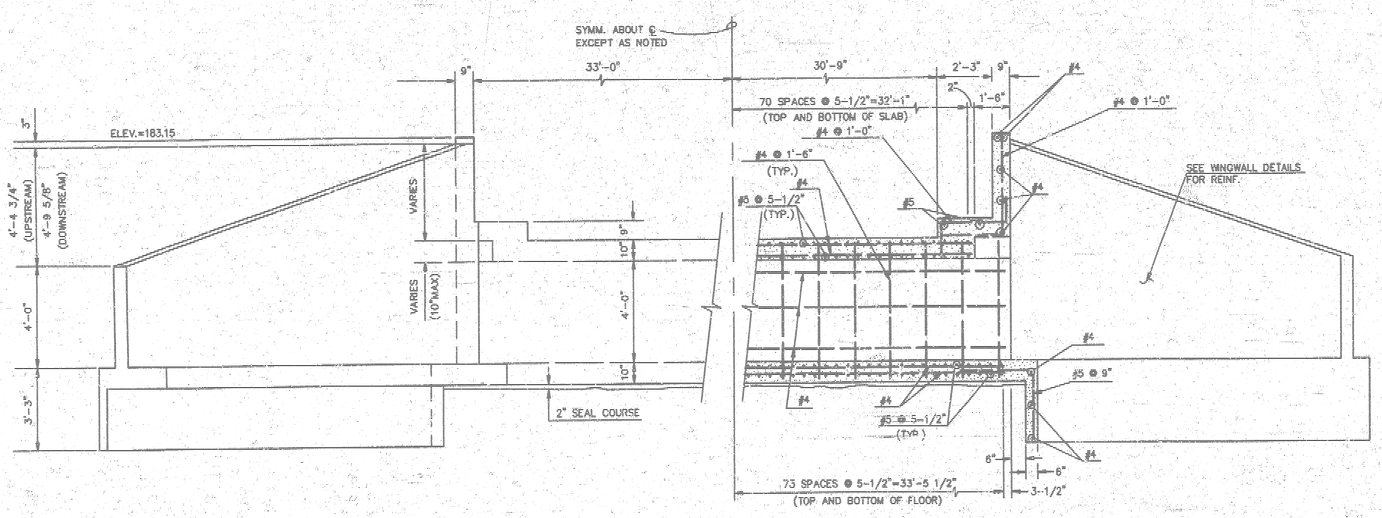
END ELEVATION

SCALE: 1/4"=1'-0"



SECTION THRU WING

SCALE: 3/8"=1'-0"

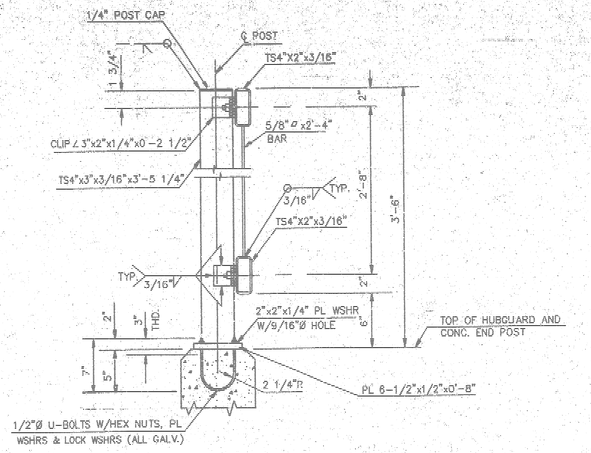


ELEVATION AND SECTION

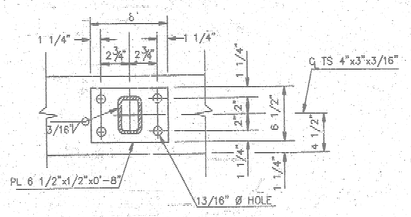
SCALE: 3/8"=1'-0"

MK EC	REINFORCED CONCRETE BOX DETAILS	Design: MDK Drawn by: ALN & WNJ Checked by: KJS Date: 4/92 Job no. 9192RCB2
MID-KANSAS ENGINEERING CONSULTANTS, INC. 3500 N. ROCK ROAD #600 WICHITA, KANSAS 67226 PH. 838-5566		Sheet 4 of 7

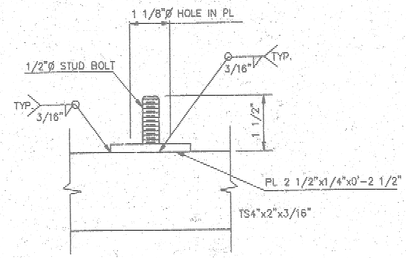
LEEWOOD VILLAGE 9192RCB2



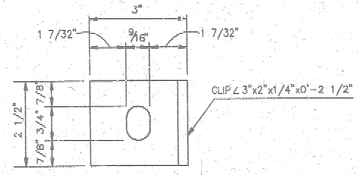
SECTION A-A
NO SCALE



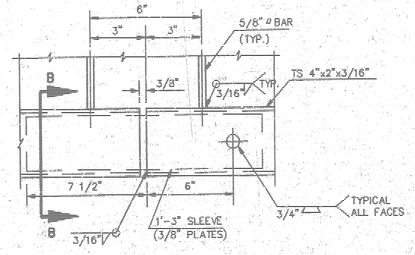
BASE PLATE DETAIL
NO SCALE



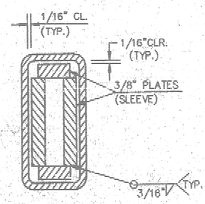
STUD BOLT DETAIL
NO SCALE



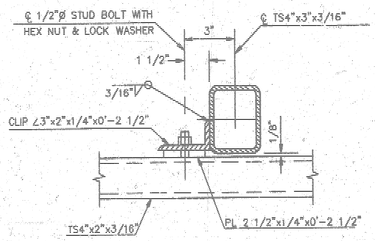
CLIP DETAIL
NO SCALE



SLEEVE DETAIL
NO SCALE



SECTION B-B
NO SCALE



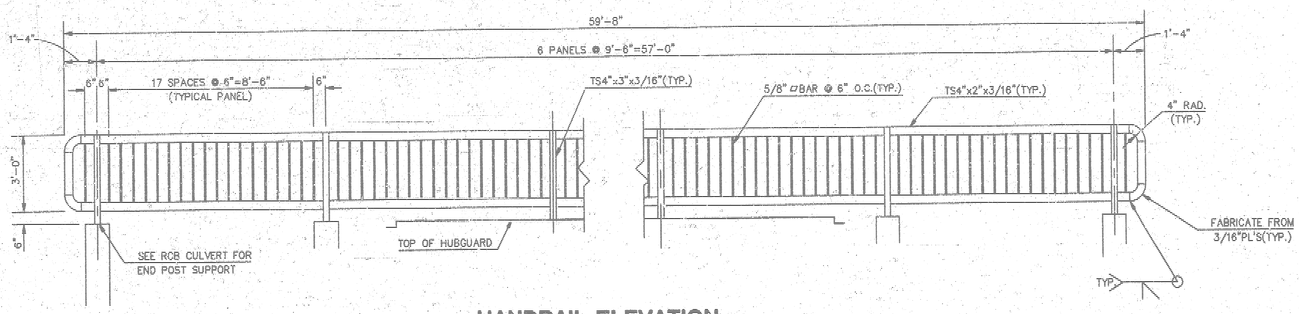
RAIL CONNECTION DETAIL
NO SCALE

BRIDGE HANDRAIL NOTES:

The rail members shall conform to ASTM Designation A36 or equivalent.

Rail shall be fabricated in lengths to include a minimum of two and a maximum of three panels. Posts shall be set vertical. Shims may be used between concrete and base plates of posts.

All parts of Bridge Handrail shall be painted. The paint coat shall be dark reddish brown Carboline No. 0516 or equal. The contractor shall submit a representative sample to the Engineer for approval prior to painting the handrail. Shop and field coats shall conform to inorganic Zinc-Vinyl System of the Standard Specifications for State Road and Bridge Construction, 1990 Edition, Kansas Department of Transportation. All materials, equipment and labor necessary for the installation of the Handrail on the bridge shall be subsidiary to the bid if. "R.C.B. Culvert."



HANDRAIL ELEVATION
SCALE: 3/8"=1'-0"

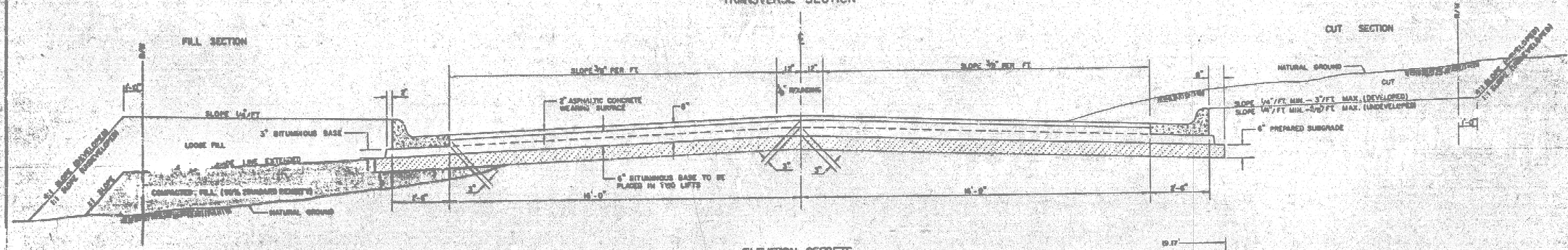
LEEWOOD VILLAGE 9192RCB3

MK EC	REINFORCED CONCRETE BOX DETAILS
Design	MDK
Drawn by	ALN & WNJ
Checked by	KJS
Date	4/92
Job no.	9192RCB3
Sheet	6 of 7

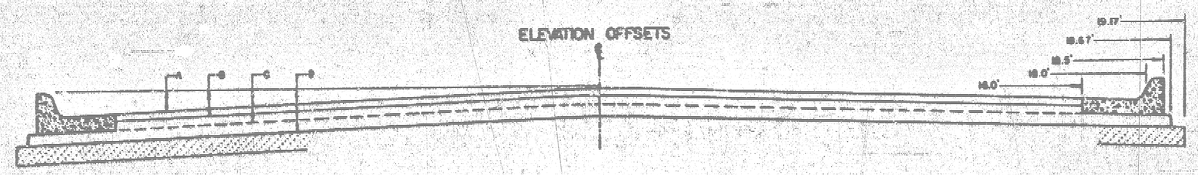
MID-KANSAS ENGINEERING CONSULTANTS, INC.
3500 N. ROCK ROAD #800
WICHITA, KANSAS 67226 PH. 636-5566

TYPICAL 37' PAVEMENT DETAILS

TRANSVERSE SECTION

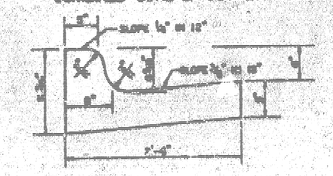


ELEVATION OFFSETS

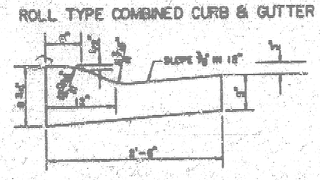


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0	2	4	6	8	10	12	14	16	18	18.5	18.67	19.17
A: TOP OF [illegible] OF [illegible]	.01	.06	.11	.16	.24	.30	.36	.43	.49	—	—	—	—
B: TOP OF [illegible] OF [illegible]	.17	.22	.26	.34	.40	.47	.53	.59	.65	—	—	—	—
C: TOP OF [illegible] TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—
D: TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.78	.84	.90	.97	1.05	1.09	1.19	1.22	1.23	1.24	1.25

COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 3" BITUMINOUS BASE.

3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

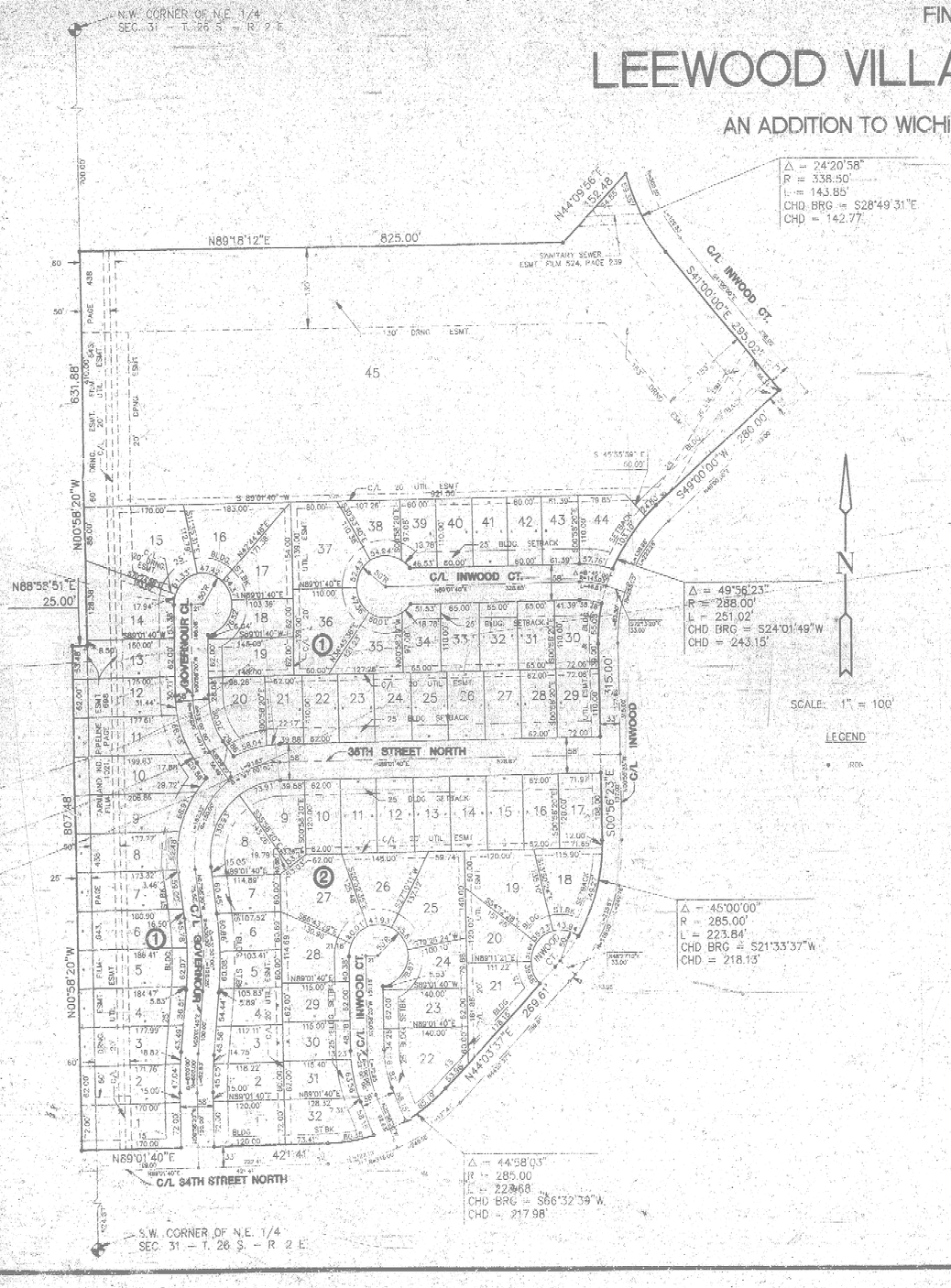
8 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 6 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

FINAL PLAT OF

LEEWOOD VILLAGE AT NORTHROCK

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



I, Kenneth H. Bengtson, a Civil Engineer and Registered Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "LEEWOOD VILLAGE AT NORTHROCK", an addition to Wichita, Sedgwick County, Kansas, into lots, blocks, and streets the same being accurately set forth in the accompanying plat and described herein:

A tract of land lying in the Northeast and Northwest Quarters, Section 31, Township 26 South, Range 2 East of the 6TH P.M., Sedgwick County, Kansas, more particularly described as follows:

Beginning at the Southeast corner of PARCEL NO. 104, an addition to Wichita, Sedgwick County, Kansas; thence N 89° 18' 12" E, 825.00 feet along the South line of said addition; thence N 44° 09' 56" E, 152.48 feet to a point on a curve to the left, said point also being the West line of 27TH ROCK ADDITION, an addition to Wichita, Sedgwick County, Kansas; thence along said curve and said West line, 143.85 feet, said curve having a central angle of 24° 20' 58", a radius of 338.50 feet, and a long chord of 142.77 feet, bearing S 28° 49' 31" E; thence continuing along said West line, S 41° 00' 00" E, 295.02 feet to the intersection of the right of way of Inwood and 35th Street North; thence S 49° 00' 00" W, 280.00 feet along Inwood as platted in KILLARNEY PLAZA SECOND ADDITION, an addition to Wichita, Sedgwick County, Kansas, to a point on a curve to the left; thence along said curve 251.02 feet, said curve having a central angle of 49° 56' 23", a radius of 288.00 feet, and a long chord of 243.15 feet, bearing S 24° 01' 49" W; thence S 00° 58' 23" E, 315.00 feet to a point on a curve to the right; thence along said curve 223.84 feet, said curve having a central angle of 45° 00' 00", a radius of 285.00 feet, and a long chord of 218.13 feet, bearing S 21° 33' 37" W; thence S 44° 03' 37" W, 269.61 feet to a point on a curve to the right; thence along said curve 223.62 feet, said curve having a central angle of 44° 58' 03", a radius of 285.00 feet, and a long chord of 217.98 feet, bearing S 66° 32' 39" W; thence S 89° 01' 40" W, 421.41 feet to a point on the East line of WILLOWOOD, an addition to Wichita, Sedgwick County, Kansas; thence N 00° 58' 20" W, 807.48 feet along said East line to the Northeast corner of said WILLOWOOD; thence N 88° 58' 51" E, 25.00 feet along the extended North line of said WILLOWOOD, to the Southeast corner of the North Half of the Northwest Quarter of said Section 31; thence N 00° 58' 20" W, 631.88 feet along the East line of said Northwest Quarter, to the point of beginning.

The drainage easements recorded on Film 679, Page 774 and Film 964, Page 164 located within the above described property are being vacated by virtue of K.S.A. 12-512(b).

I hereby certify that the details of this plat are correct to the best of by knowledge and belief this _____ day of _____, 1992.

Kenneth H. Bengtson, P.E., R.L.S. #922
Mid-Kansas Engineering Consultants, Inc.
3500 N. Rock Road, Building #800
Wichita, KS 67226

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineer's and Registered Land Surveyor's Certificate, have caused the same to be surveyed and platted into lots, blocks, and streets the same to be known as "LEEWOOD VILLAGE AT NORTHROCK", an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of drainage and public utilities as indicated on the accompanying plat, are hereby granted.

LEEWOOD HOMES, INC.

BY: Joe H. Lee, President

STATE OF KANSAS)
) ss.
SEDGWICK COUNTY)

BE IT REMEMBERED, that on this _____ day of _____, 1992, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Joe H. Lee, President of Leewood Homes, Inc., personally known to me to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year last above written.

Notary Public

My appointment expires: _____

We, BANK IV WICHITA, N.A., mortgagees on the above described property, do hereby consent to the plat of "LEEWOOD VILLAGE AT NORTHROCK".

BANK IV WICHITA, N.A.

BY: _____

STATE OF KANSAS)
) ss.
SEDGWICK COUNTY)

BE IT REMEMBERED, that on this _____ day of _____, 1992, before me the undersigned, a Notary Public in and for the County and State aforesaid, came for BANK IV WICHITA, N.A., personally known to me to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year last above written.

Notary Public

My appointment expires: _____

This plat of LEEWOOD VILLAGE AT NORTHROCK has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this _____ day of _____, 1992.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

_____, CHAIRMAN
Christopher J. Goebel

_____, SECRETARY
Marvin S. Krout

This plat approved and all dedications shown hereon, if any, accepted by the City Council of the City of Wichita, Kansas, this _____ day of _____, 1992.

_____, MAYOR
Bob Knight

_____, DEPUTY CITY CLERK
Pat Burnett

Enter on transfer record this _____ day of _____, 1992.

_____, COUNTY CLERK
Don Wright

STATE OF KANSAS)
) ss.
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this _____ day of _____, 1992.

_____, REGISTER OF DEEDS
Pat Kettler

_____, DEPUTY
Ed Rosa

18-15-5-5