LATERAL 120, WESTLINK SEWER

TO SERVE PART OF BLOCK 5, GRAF-GOLDSTON ADDITION AND PART OF BLOCK 1, GRAF - GOLDSTON 2ND ADDITION

PROJECT NO: 468-76-245-82546-000-000-001

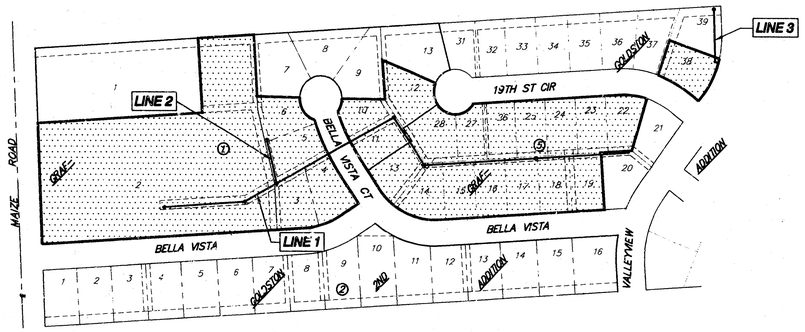
INDEX CODE: 742783

GENERAL NOTES

1. Traffic will not be affected by construction of this project.
2. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, 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 Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
3. 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 disposal 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 permitting regulations. Any material buried or stockpiled beyond approved of Engineers construction limits would require additional archeological investigations unless buried in a previously approved borrow location.
4. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
5. 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.
6. Contractor will be required to provide a minimum advance notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows:

   Kansas One-Call 687-2470
7. The Contractor shall grade all disturbed areas in the project area in accordance with the Easement Grading plan, prepare for planting, and seed with annual rye grass @ 2#/1000 s.f. (or other approved temporary seeding).



Scale 1" = 150'

IMPROVEMENT DISTRICT

INDEX OF SHEETS

1. TITLE SHEET
2. LINE 1 PLAN/PROFILE
3. LINES 1, 2 & 3 PLAN/PROFILE
4. STANDARD MANHOLE DETAILS
5. EASEMENT GRADING PLAN

5-7. PLAT COPIES

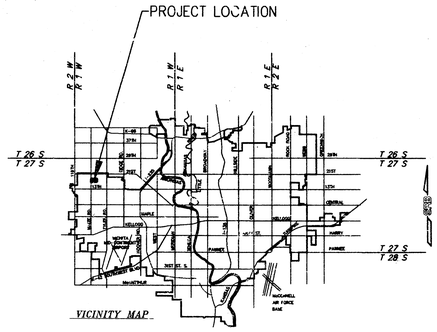
BENCH MARKS:

City of Wichita Disc 64' East & 99' South of centerlines of Maize Road and 21st Street North. Elev. 164.30

" □ " Cut in top of curb at Southwest corner of E-W sidewalk at West Towne Baptist Church. Elev. 164.92

" □ " Cut on top of curb at northwest corner, Lot 31, Block 1, Graf-Goldston Addition. Elev. = 157.96

" □ " Cut on top of curb at southwest corner, Lot 59, Block 1, Graf-Goldston Addition. Elev. = 158.16



THOMAS CHARLES HUGGINS LICENSED 24621 KANSAS

CITY OF WICHITA, KANSAS

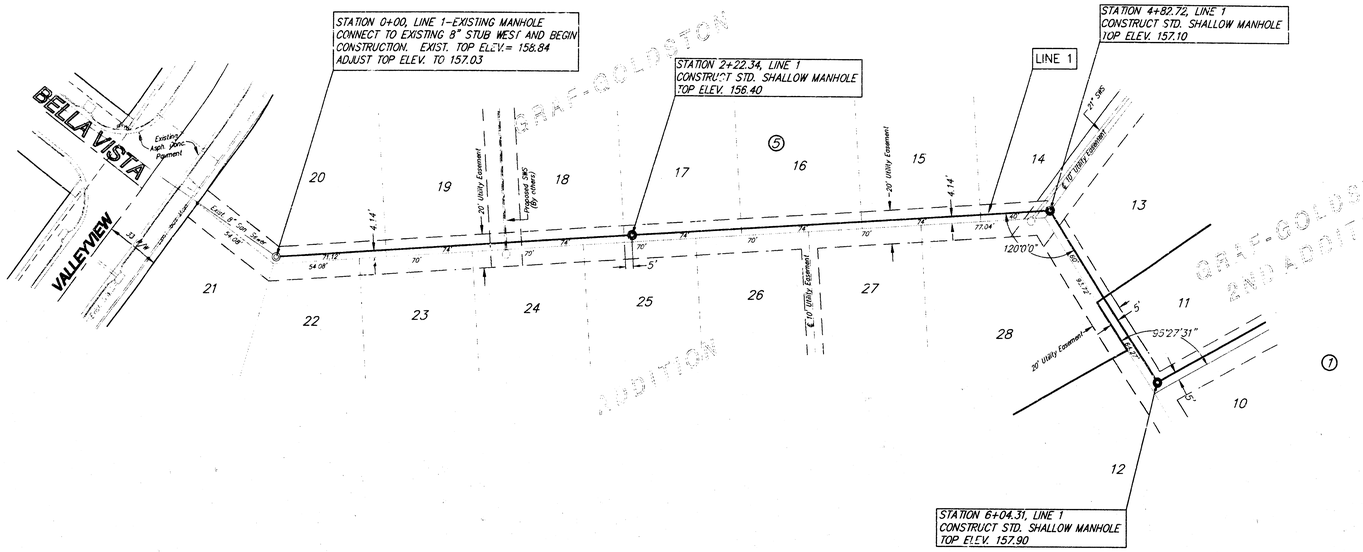
MICHAEL E. LINDEBAK - CITY ENGINEER

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621

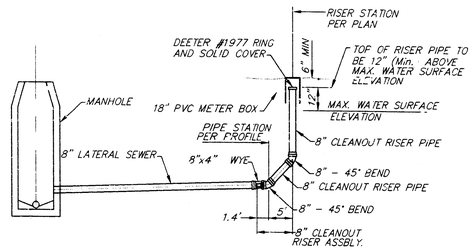
SAVOY, RUGGLES & BOHM, P. A.

ENGINEERING & SURVEYING

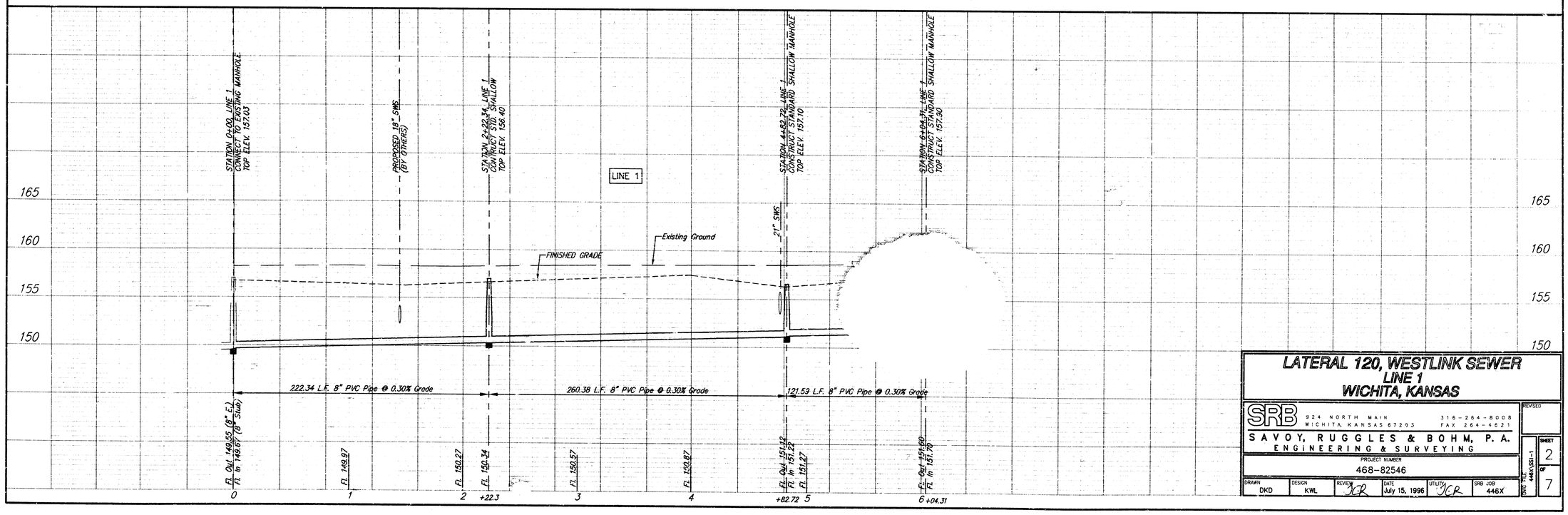
F:\Active Projects\Don Devore\V46X (Graf-Goldston 2nd SS)\sscov



SCALE:
1" = 40' PLAN
1" = 5' PROFILE (VERT.)



8" CLEANOUT RISER DETAIL



LATERAL 120, WESTLINK SEWER
LINE 1
WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

REVISED

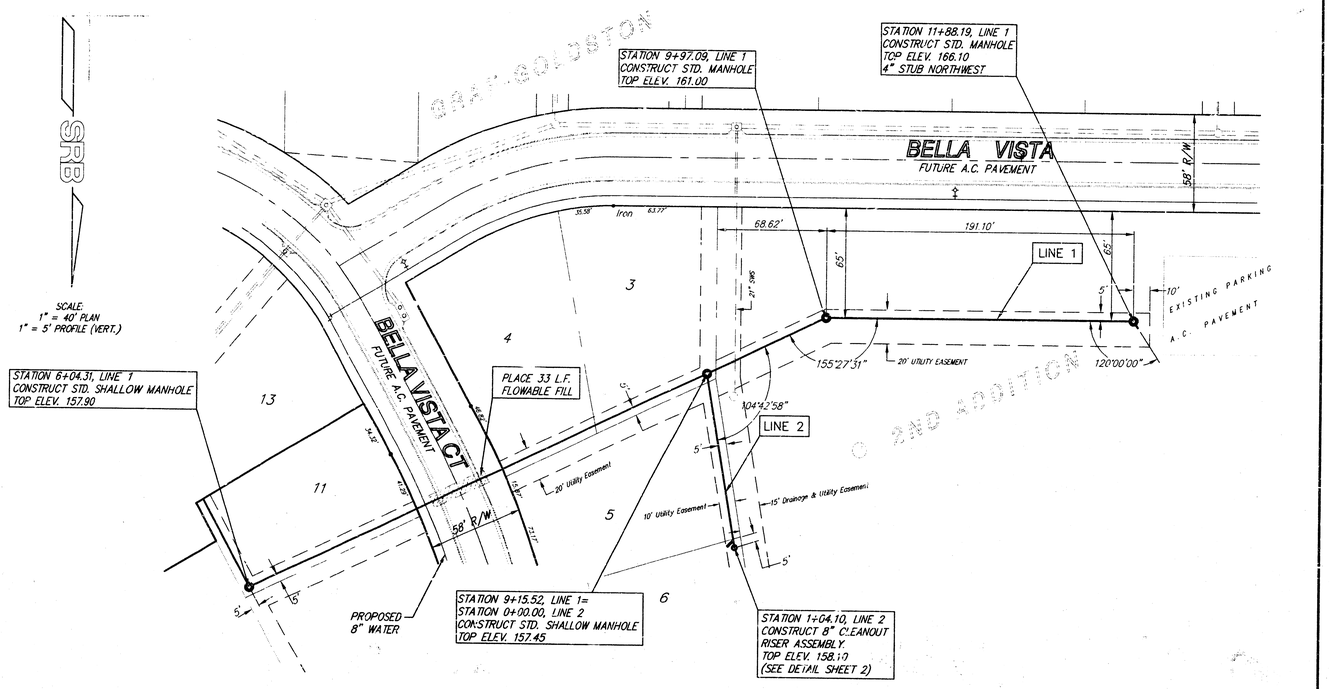
PROJECT NUMBER 468-82546

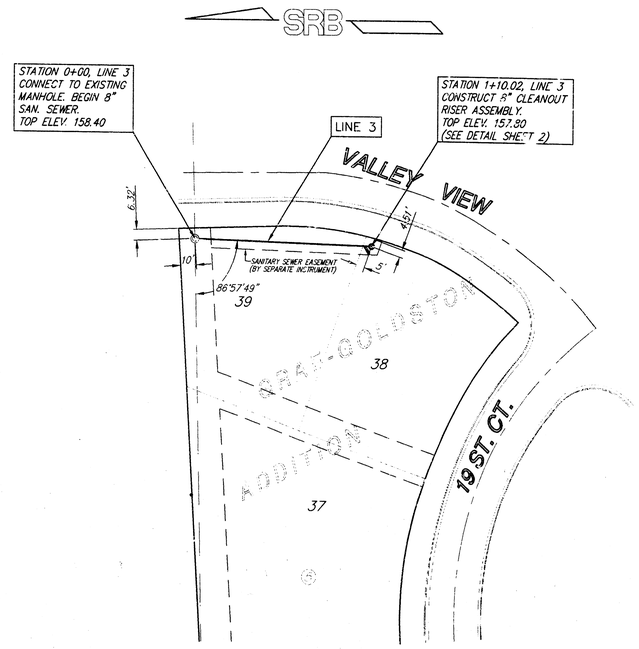
DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
DKD	KWL	JCR	July 15, 1996	JCR	446X

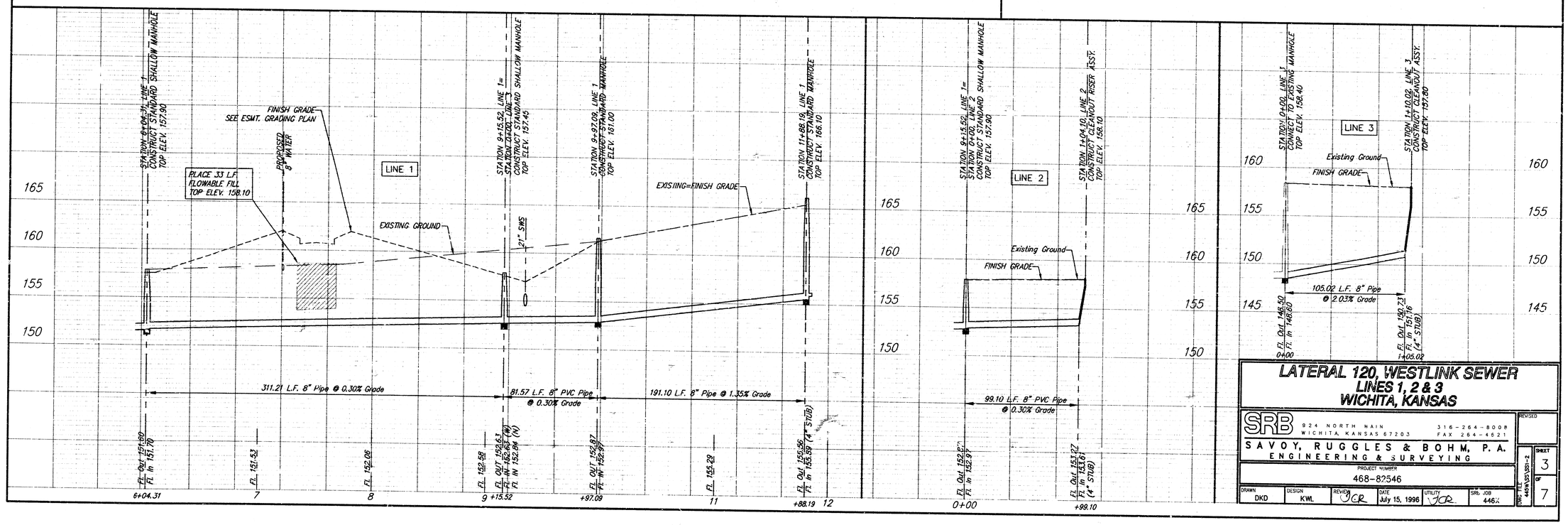
DWG FILE 446X\SS1-1

SHEET 2 OF 7

F:\Active Projects\Don Devore\446X (Graf-Goldston 2nd SS)\ss1-1







LATERAL 120, WESTLINK SEWER
LINES 1, 2 & 3
WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

REVISED

PROJECT NUMBER
468-82546

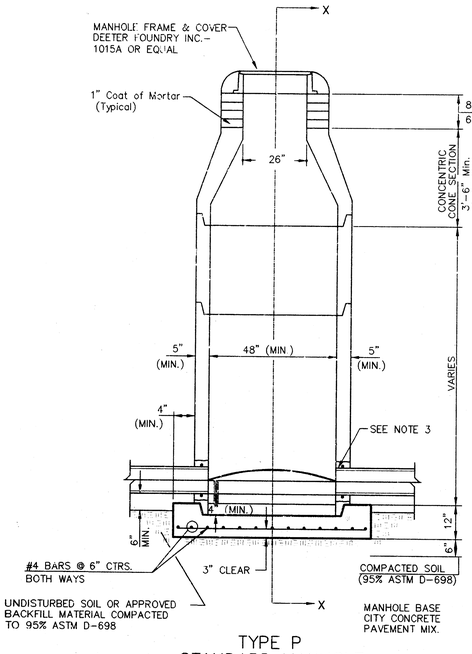
DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
DKD	KWL	JCR	July 15, 1996	JCR	446.X

DRAWING FILE: 446\WS\SS1-2

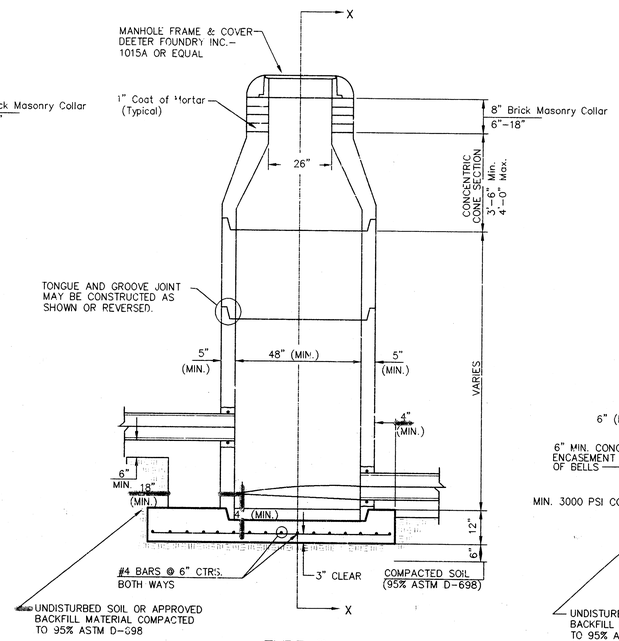
SHEET 3 OF 7

F:\Active Projects\Don Devore\446X (Graf-Goldston and SS)\ss1-2

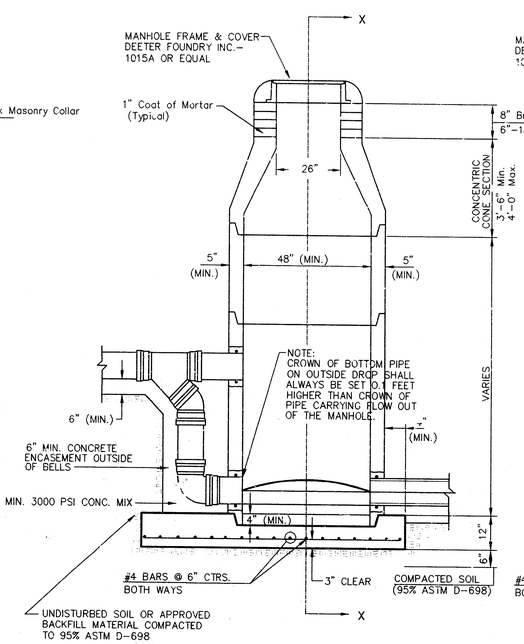
SEWER APPURTENANCES DETAILS



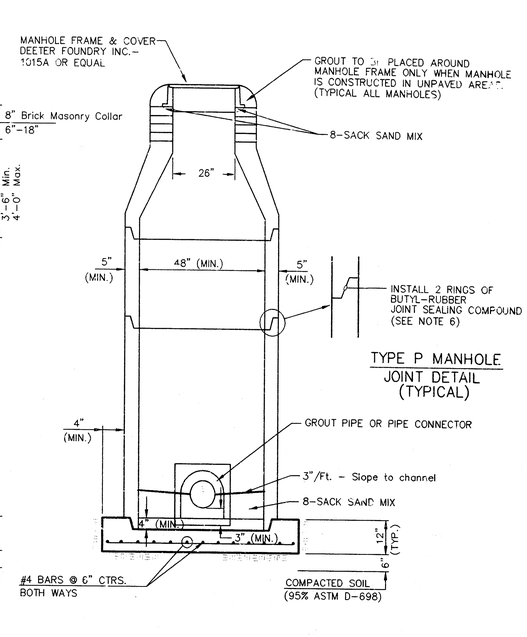
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE

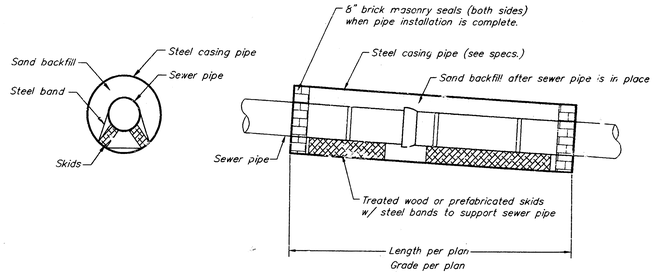


SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MAHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.

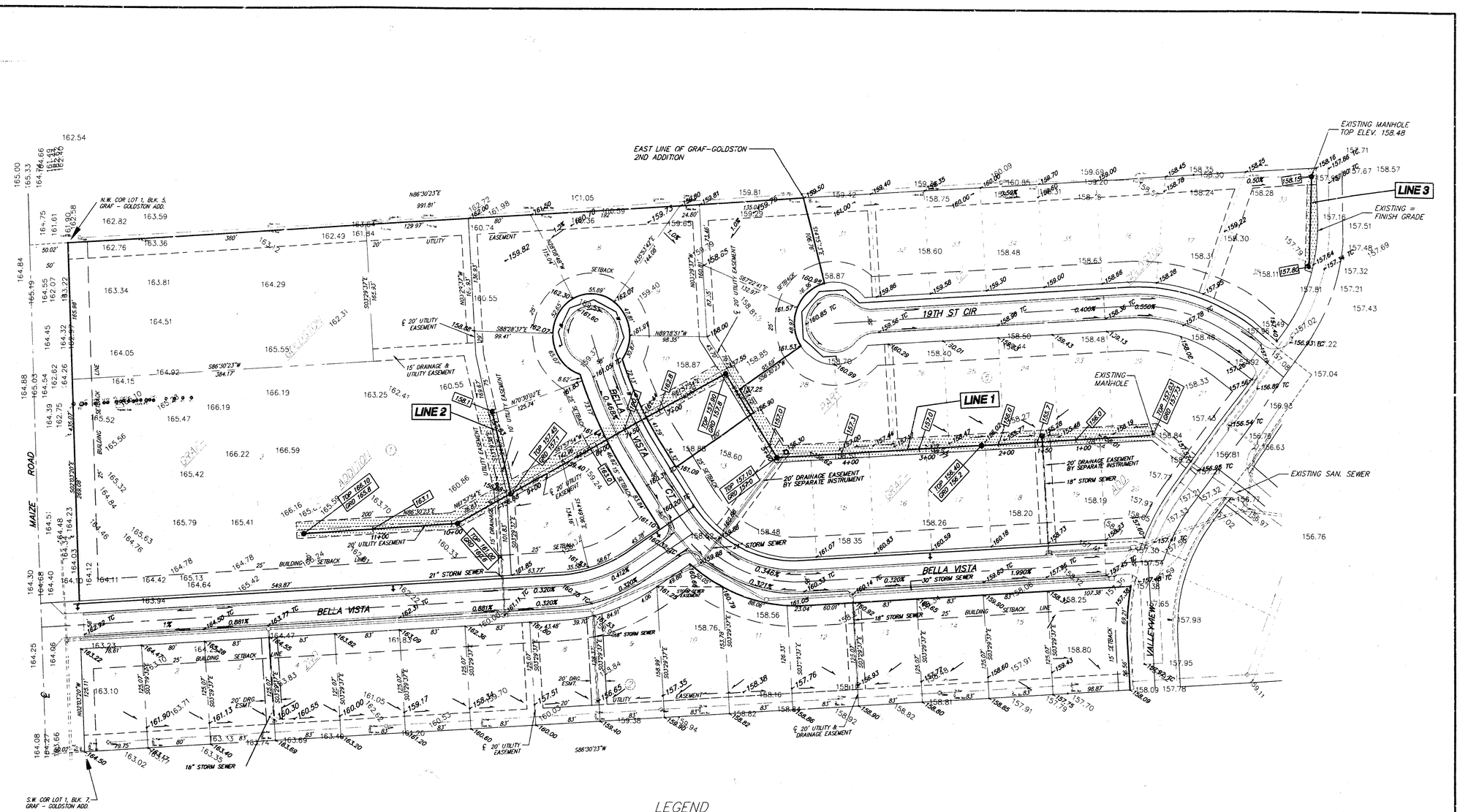


BORING AND JACKING
STEEL PIPE CASING DETAIL
NO SCALE

STANDARD MANHOLE DETAILS
SEWER APPURTENANCES DETAILS
CITY OF WICHITA, KANSAS

DWG. NO. 4460 K STDMH | 4 | 7

F:\Active Projects\Don Devore\460K (Graf-Goldston 2nd SS)\stdmh


EAST LINE OF GRAF-GOLDSTON 2ND ADDITION
EXISTING MANHOLE TOP ELEV. 158.48
LINE 3
EXISTING = FINISH GRADE
LINE 1
LINE 2
19TH ST CIR
BELLA VISTA
MAIZE ROAD
EXISTING MANHOLE
EXISTING SAN. SEWER
20' DRAINAGE EASEMENT BY SEPARATE INSTRUMENT
15" STORM SEWER
18" STORM SEWER
21" STORM SEWER
24" STORM SEWER
30" STORM SEWER
VALLEYVIEW
N.W. COR LOT 1, BLK. 5, GRAF - GOLDSTON ADD.
S.W. COR LOT 1, BLK. 7, GRAF - GOLDSTON ADD.
15' DRAINAGE & UTILITY EASEMENT
20' UTILITY EASEMENT
10' UTILITY EASEMENT
20' DRAINAGE & UTILITY EASEMENT
20' UTILITY & DRAINAGE EASEMENT
SETBACK
BUILDING SETBACK LINE
N86°30'23"E 991.81'
S86°30'23"W 384.17'
S86°30'23"W
N70°30'02"E 125.74'
N89°28'06"W 175.00'
N89°18'51"W 98.35'
S88°28'37"E 99.41'
N00°29'37"W 165.83'
S00°29'37"E 165.83'
N00°30'23"W 200.00'
S00°29'37"E 125.07'
S00°30'23"E 200.00'
S00°30'23"E 200.00'
S00°29'37"E 125.11'
N00°30'23"W 125.11'
N61°57'54"E 38.81'
N86°30'23"E 200'
S00°29'37"E 125.07'
S00°29'37"E 125.07'
S00°29'37"E 125.07

GRAF - GOLDSTON ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

NW Corner NW 1/4 Section 9, T27S, R1W of the 6th PM

21st STREET NO.

CORNELISON

20th STREET

VALLEYVIEW

AMARADO

WESTLAWN

19th STREET

19th STREET CIRCLE

BELLA VISTA

MAIZE RD.

Complete Access Control

Drainage Easement Film 216, Page 2

Dedication

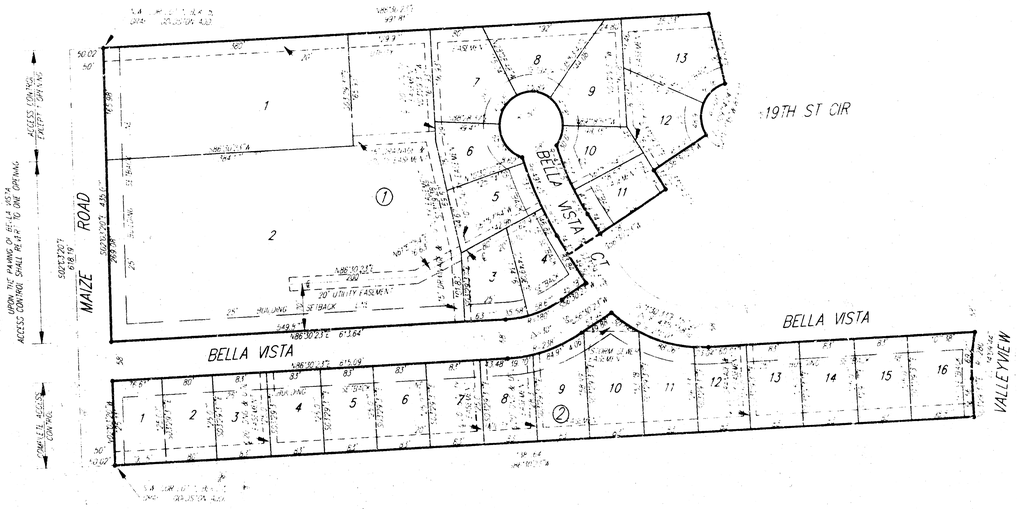
Bench Mark - City of Wichita
B.M. Disc set in curb 6.98' South of E. end Wall to 9.3 ft SW
Elev. = 1320.00'
August 31, 1960

Street Dwg. 2

M-1 7-27b

GRAF - GOLDSTON 2ND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



1" = 100'
• = 1/2" Rebar/SKB Cap

State of Kansas)
Sedgwick County) SS
We, Savoy, Ruggles & Bohm, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted this plat of "GRA-GOLDSTON 2ND ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of said survey, described as and being a re-plat of the following described property.

Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and Lots 29 and 30, in Block 5, and Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13, in Block 6 and Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 12, 13, 14, 15, 16, 17 and 18 in Block 7, Graf - Goldston Addition to Wichita, Sedgwick County, Kansas, and Lot 1, Block 1, West Towne Baptist Church Addition, Sedgwick County, Kansas. and all of 19th Street extending east from the east line of Maize Road to the south line of Lot 12, in said Block 5, extended southwesterly to the northeasterly line of Lot 7, in said Block 6.

All being situated in the NW1/4 of Sec. 8, Twp. 27-S, R-1-W of the 6th P.M., Sedgwick County, Kansas.

Said 19th Street and all other public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Savoy, Ruggles & Bohm, P.A.

Date _____

_____ Surveyor
Mark A. Savoy

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into Lots, Blocks, and Streets to be known as "GRAF-GOLDSTON 2ND ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted for the construction and maintenance of all public utilities. The drainage and utility easement is hereby granted for drainage purposes and for the contruction and maintenance of all public utilities. The Street is hereby dedicated to and for the use of the public. All abutters rights of access to or from Maize Road, over and across the west line of Lots 1 and 2, Block 1, and Lot 1, Block 2, are hereby granted to the City of Wichita, provided however that Lot 1, Block 1, shall have access to Maize Road at one location over the west line thereof and that Lot 2 shall have access to Maize Road at two locations until such time as Bella Vista is paved, and that upon such paving, Lot 2 shall have access to Maize Road at one location, all as shall be determined by the City Engineer of the City Wichita, Kansas.

Courtland Development Corporation

_____ President
Joe Graf

West Towne Baptist Church, Inc.

_____ President
Bob Shank

West Congregation of Jehovah's Witnesses

_____ _____
Richard E. Wiechman Shirley A. Wiechman

We, the u... portion of the above described pr... "GRAF-GOLDSTON 2ND ADDITION",

Emprise Bank

_____ _____

American Baptist Extension Corporation

_____ _____

Fidelity Savings Association of Kansas, FSB

_____ _____

This plat of "GRAF-GOLDSTON 2ND ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this _____ day of _____ 1995.

Wichita-Sedgwick County Metropolitan Area Planning Commission.

_____ Chairman
John W. McKay, Jr.

_____ Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon accepted by the Board of Commissioners of the City of Wichita, Kansas, this _____ day of _____ 1995.

_____ Mayor
Bob Knight

_____ Deputy City Clerk
Pat Burnett

Entered on Transfer Record, this ____ day of _____ 1995.

_____ County Clerk
Susan E. Crockett-Spoon

State of Kansas)
Sedgwick County) SS
This is to certify that this plat has been filed for record in the office of the Register of Deeds, this ____ day of _____ 1995, at ___ o'clock ___M; and is duly recorded.

_____ Register of Deeds
Pat Kettler

_____ Deputy
Ed Resa

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by Joe Graf, President of Courtland Development Corporation, on behalf of the corporation.

_____ Notary Public
My App't. Exp. _____

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by Bob Shank, President of West Towne Baptist Church, Inc., on behalf of the corporation.

_____ Notary Public
My App't. Exp. _____

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by _____, _____ of West Congregation of Jehovah's Witnesses, on behalf of the congregation.

_____ Notary Public
My App't. Exp. _____

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by _____, _____ of Emprise Bank, on behalf of the corporation.

_____ Notary Public
My App't. Exp. _____

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by _____, _____ of The American Baptist Extension Corporation, on behalf of the corporation.

_____ Notary Public
My App't. Exp. _____

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by _____, _____ of Fidelity Savings Association of Kansas, FSB, on behalf of the corporation.

_____ Notary Public
My App't. Exp. _____

State of Kansas)
Sedgwick County) SS
The foregoing instrument acknowledged before me, this ____ day of _____ 1995, by Richard E. Wiechman and Shirley A. Wiechman, husband and wife.

_____ Notary Public
My App't. Exp. _____

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

DWG FILE: 0022SPR-SAM
PROJECT NO. 94K00225

F:\Active Projects\00\94K00225\Graf Goldston 2nd Street\0022Spl

14-3-21