LATERAL 16, MAIN 22, W.I.S.

PROJECT NO.

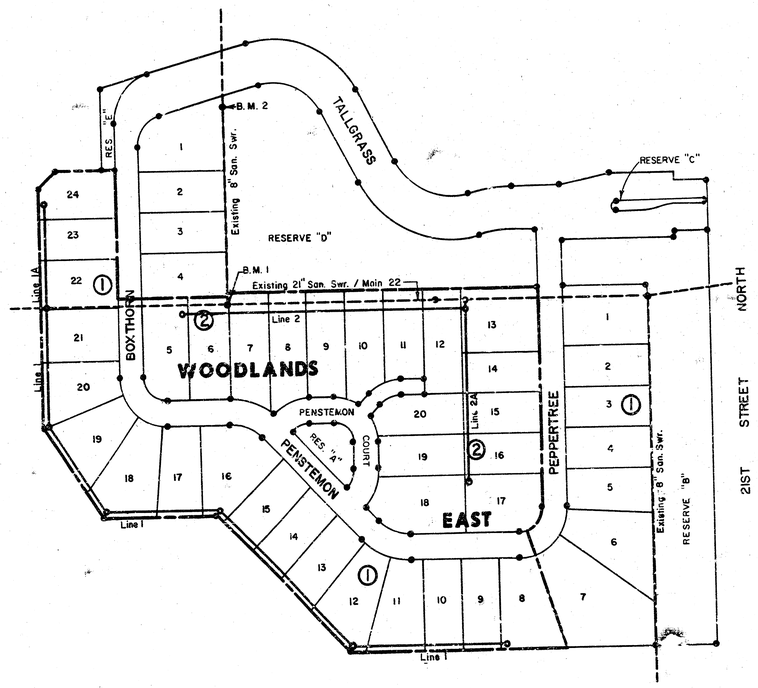
468-76-245-81157-000-000-001

CITY OF WICHITA, KANSAS

R. W. BRUGGEMAN, CITY ENGINEER

JANUARY, 1982

As Built
J.L.L.
11-82



NO SCALE

B.M. #1: SOUTH RIM OF WEST MANHOLE, STA 104+05
MAIN 22, W.I.S.
ELEV. = 194.11

B.M. #2: SOUTH RIM OF EAST MANHOLE, STA 2+50 -
LINE 1, MAIN 22, W.I.S. EXTENSION
ELEV. = 192.16

KENNETH W. SEAGREN
LICENSED
7236
KANSAS
PROFESSIONAL ENGINEER

Due to extensive, ongoing construction, special attention should be given to the location of underground utilities.

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LINE 1 & 1A
3	LINE 2 & 2A
4	PLAT
5	RISER DETAIL

LEGEND

PROPOSED LINE ————

EXISTING LINE — — — —

BENEFIT DISTRICT BOUNDARY — — — —

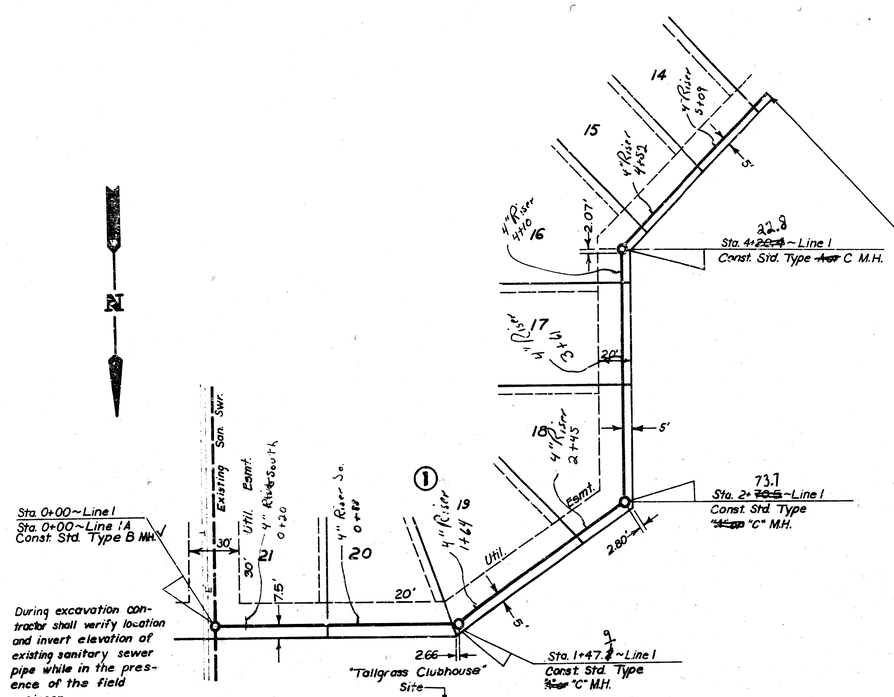
GENERAL NOTES

1. RISER PIPE SHALL BE INSTALLED TO SERVE INDIVIDUAL LOTS OR TRACTS IN CONJUNCTION WITH NEW SANITARY SEWER CONSTRUCTION, UNLESS OTHERWISE ORDERED BY THE ENGINEER, BECAUSE OF GROUND WATER, UNSTABLE SOIL OR UNUSUALLY DEEP CONSTRUCTION. RISER LOCATIONS SHALL BE AS APPROVED BY THE PROPERTY OWNER WITH THE CONCURRENCE OF THE ENGINEER. INSTALLATION OF RISERS ON SEWERS BECAUSE OF UNUSUAL DEPTH WILL BE REQUIRED WHEN THE SEWER IS DEEPER THAN TWELVE FEET (12'). THE CONTRACTOR WILL BE REQUIRED TO FILE WRITTEN DOCUMENTATION WITH THE ENGINEER IN A FORM APPROVED BY THE ENGINEER INDICATING THE LOCATIONS WHERE RISERS ARE TO BE INSTALLED AS REQUESTED BY THE PROPERTY OWNER OR HIS AUTHORIZED REPRESENTATIVE. RISER PIPE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SHOWN ON THE STANDARD RISER DETAIL SHEET.

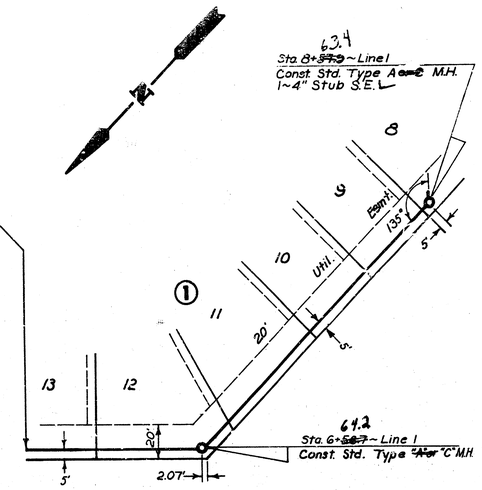
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN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

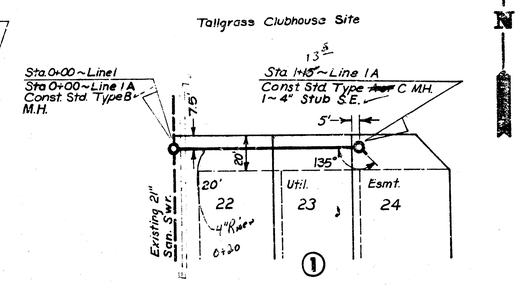
Van Doren Hazard Stallings
Architects · Engineers · Planners
Topeka · Wichita · Minneapolis · Kansas City

WOODLANDS EAST
LATERAL 16, MAIN 22
468-76-245-81157-000 000-001



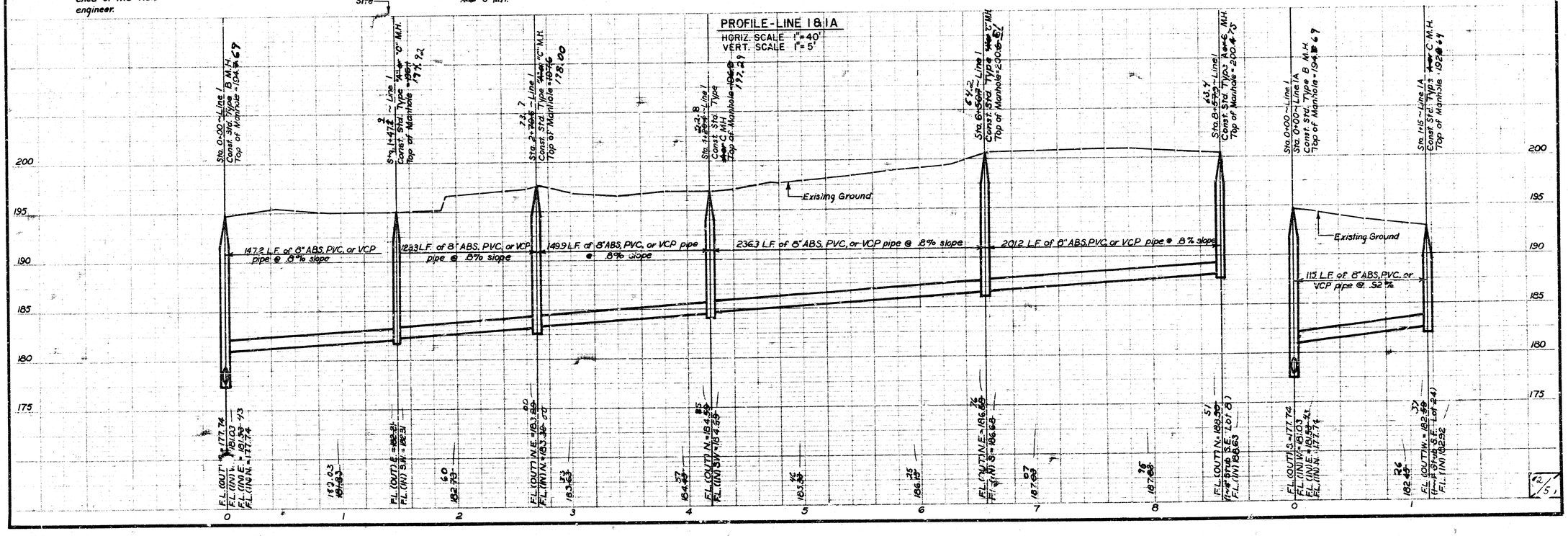
PLAN LINE 1
SCALE 1"=40'





As Built
J.H.L.
11-82

PLAN LINE 1A
SCALE 1"=40'



vhs 81

WOODLANDS EAST
LATERAL 16, MAIN 22
468-76-245-8157-000-000-001

PLAN-LINE 2 & 2A

SCALE 1"=40'

Sta. 2+18~Line 2A

17 18 16 19 15 20 14 13 12 11 10 9 8 7 6 5 4

5' Easmt. 5' Util. 20' 20' 30' Util. Easmt. 10' 20' 135°

Existing 21" San. Swr.

Sta. 0+10~Line 2
Sta. 0+00~Line 2A
Const. Std. Type "A" & eccentric Drop "C" M.H.

Sta. 0+00~Line 2
Const. Std. Type "B" M.H. ✓
M.H. moved 10'S.

Sta. 3+70~Line 2
Const. Std. Type "A" or "C" M.H.
1-4" Stub N.W. ✓

Sta. 0+10~Line 2
Sta. 0+00~Line 2A
Const. Std. Type "A" or "C" M.H.

Existing 21" San. Swr.

13 14 15 16 17 12 20 19 18

5' 20' Util. Easmt. 5' 135° Typ. 10' 21.5'

20 4" Riser 1+25

19 4" Riser 1+23

Sta. 2+18~Line 2A
Const. Std. Type "A" or "C" M.H.
2-4" Stub SW. & N.W. ✓

N

As Built
J.H.L.
11-82

PROFILE - LINE 2 & 2A

HORIZ. SCALE 1"=40'
VERT. SCALE 1"=5'

Sta. 0+00~Line 2
Const. Std. Type "B" M.H.
Crest ideal invert connection
Top of M.H. = 194.5 ± 3'

Sta. 0+10~Line 2
Const. Std. Type "A" or "C" M.H.
Top of M.H. = 194.7
115.41

8" w/outside Drop

Sta. 3+70~Line 2
Const. Std. Type "A" or "C" M.H.
Top of M.H. = 194.52

10 L.F. of 8" ABS, PVC, or VCP pipe @ .4%

360 L.F. of 8" ABS, PVC, or VCP pipe @ 4%

FL. (OUT) S = 175.09
FL. (IN) N = 175.59
FL. (IN) W = 180.89

FL. (OUT) E = 180.89
FL. (IN) N = 182.00
FL. (IN) W = 183.16

20 182.36 66 182.76 116 183.16

FL. (OUT) S = 183.44
FL. (IN) NW = 183.77
(1-4" Stub @ Lot 5)

Sta. 0+10~Line 2A
Sta. 0+00~Line 2A
Const. Std. Type "A" or "C" M.H.
Top of M.H. = 194.7

Sta. 2+49~Line 2A
Const. Std. Type "A" or "C" M.H.
Top of M.H. = 196.82

E of 8" ABS, PVC, or VCP pipe @ 1.0%

FL. (OUT) E = 182.90
FL. (IN) N = 182.00
FL. (IN) W = 183.16

185.11 184.46

(185.18)

FL. (OUT) E = 185.29
FL. (IN) SW & NW = 185.59
(2-4" Stub @ Lot 17 & 18)

200 195 190 185 180 175

0 1 2 3

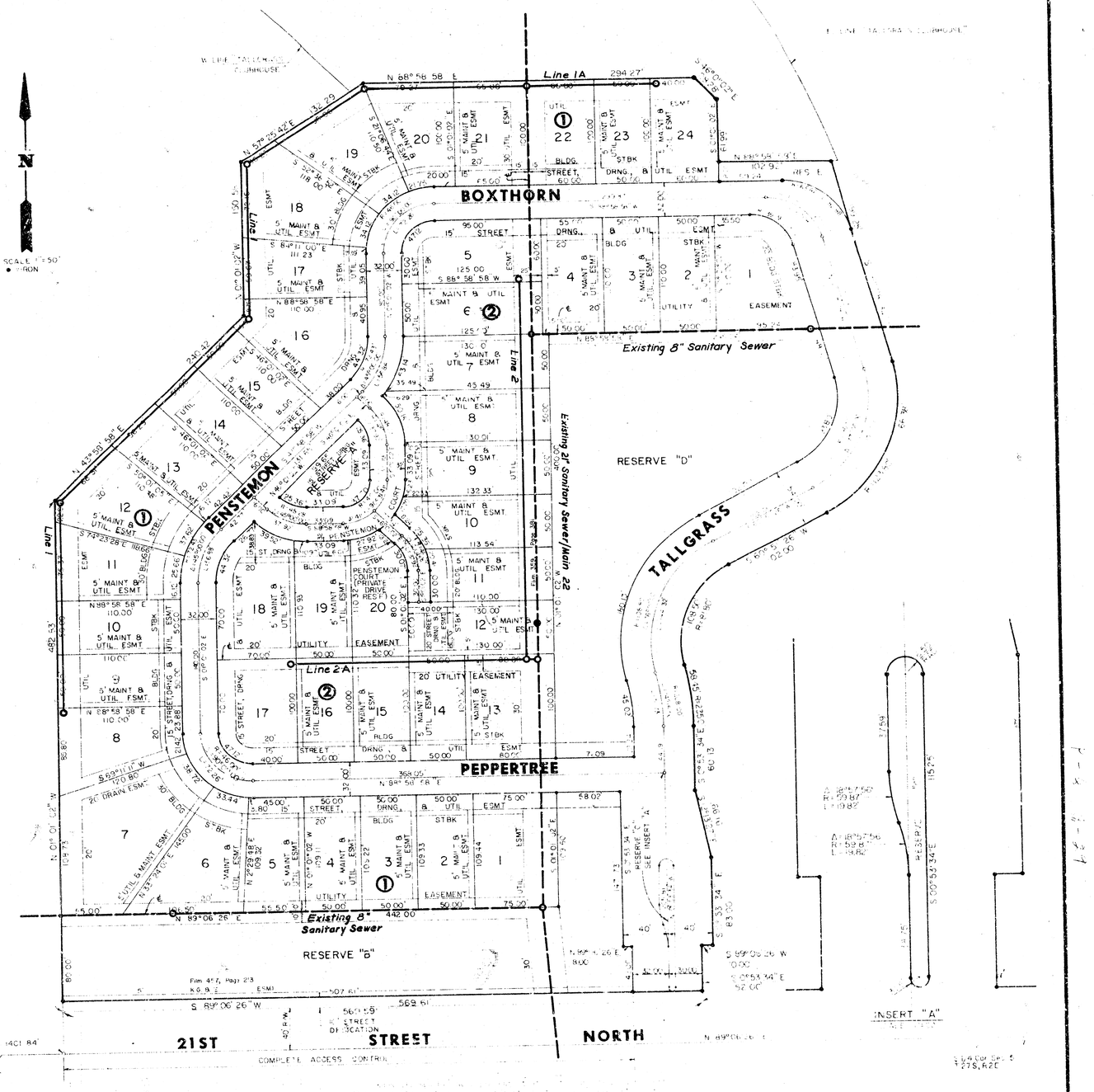
3/5

vhs 81

FINAL PLAT OF

WOODLANDS EAST

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



10TH September

Robert A. Peterson

W. D. Benter
A.F. Baker, Farmer

September

Steven E. Anderson

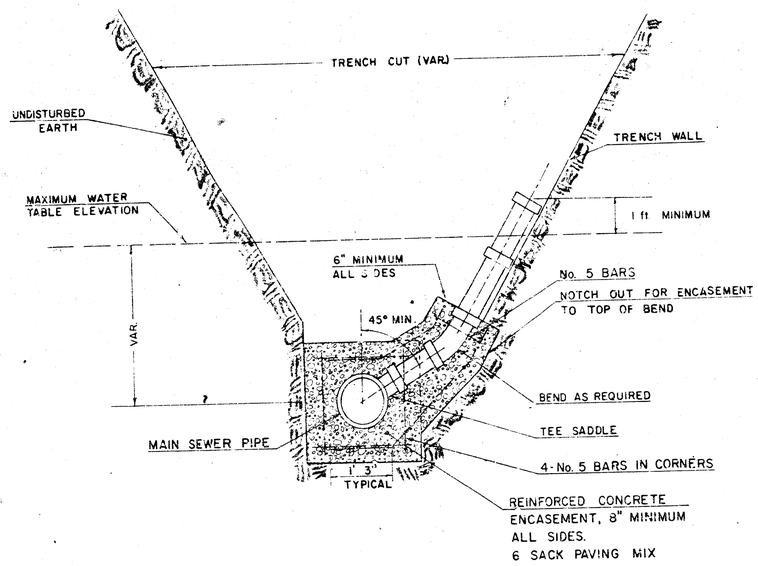
FILMED FROM THE BEST

REVISED APRIL, 1980

VERTICAL RISER DETAIL

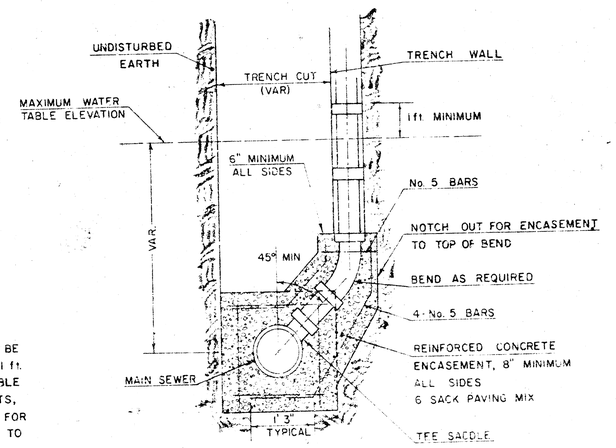
ADOPTED AS STANDARD DESIGN BY

CITY OF WICHITA, KANSAS

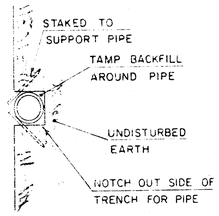


TYPICAL RISER FOR SLOPING TRENCH WALLS

NOTE:
TOP OF 4" OR 6" RISER PIPE TO BE EXTENDED TO AN ELEVATION OF 1 ft. MINIMUM ABOVE THE WATER TABLE ELEVATION, WHEN WATER EXISTS, OR TO AN ELEVATION SUITABLE FOR PROVIDING SERVICE TO THE LOT TO BE SERVED AND THEN PLUGGED.



TYPICAL RISER FOR VERTICAL TRENCH WALLS



GENERAL NOTES

RISERS SHALL BE INSTALLED VERTICAL, EXCEPT AS SHOWN ON THE SEWER LINE PLANS. RISERS SHALL ALSO BE INSTALLED AT ALL LOTS AT EACH END OF THE MAIN SEWER LINE UNLESS THE LINE IS TO BE EXTENDED. A WELDED MARK IS REQUIRED ON SEWER LINE CONNECTION DRAWINGS. INSTALLATION OF RISERS CLOSER TO MAIN LINE SEWER MANHOLE SHALL BE APPROVED BY THE ENGINEER. THE LOCATION OF RISERS TO SERVE DUPLEX PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. PIPE STUBS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PERMIT SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER. THE VERTICAL DISTANCE BETWEEN THE CENTERLINE OF THE MANHOLE PIPE STUB AND THE FLOW LINE OF THE MAIN SEWER LINE SHALL NOT EXCEED 4 FT. MANHOLE PIPE STUBS SHALL NOT BE SET BELOW AN ELEVATION WHICH WILL PERMIT THE TOP OF THE INSIDE OF THE STUB TO MATCH THE TOP OF THE INSIDE OF THE MAIN SEWER PIPE. PIPE STUBS AND RISERS INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY SHALL BE 6 INCH PIPE. STUBS AND RISERS INSTALLED TO SERVE RESIDENTIAL PROPERTY MAY BE EITHER 4 INCH OR 6 INCH DEPENDING UPON THE AVAILABLE GRADE AND THE SIZE OF THE LOT AS DETERMINED BY THE FIELD ENGINEER. ENCASEMENT OF BACKFILLED MAIN SEWER CLAY PIPE SHALL EXTEND TO THE FIRST JOINT IN THE MAIN SEWER CLAY PIPE ON EACH SIDE OF THE RISER INSTALLATION. ENCASEMENT OF A.B.S. COMPOSITE OR P.V.C. MAIN SEWER PIPE SHALL EXTEND A MINIMUM OF 3 FT. ON BOTH SIDES OF THE CENTERLINE OF THE RISER. FOUR INCH AND SIX INCH PIPE PIPE SHALL BE ENCASED WITH CONCRETE TO THE TOP OF THE BEND AS INDICATED IN THE DRAWINGS. FOUR INCH AND SIX INCH CLAY PIPE USED FOR RISERS SHALL BE EXTRA STRENGTH PIPE CONFORMING TO THE REQUIREMENTS OF THE LATEST REVISION OF A.S.T.M. DESIGNATION C700 WITH COMPRESSION JOINTS AS SPECIFIED FOR CLAY PIPE IN THE STANDARD SPECIFICATIONS. FOUR INCH AND SIX INCH A.B.S. OR P.V.C. PIPE SHALL BE PIPE APPROVED FOR USE IN THE CITY BY THE CHIEF PLUMBING AND MECHANICAL INSPECTOR FOR THE CENTRAL INSPECTION DIVISION OF THE DEPARTMENT OF HOUSING AND ECONOMIC DEVELOPMENT. LOCATIONS OF THE ENDS OF THE RISERS SHALL BE MARKED BY FASTENING GREEN COLORED PLASTIC TAPE TO THE END OF THE RISER WHICH SHALL BE EXTENDED TO THE GROUND SURFACE AS THE EXCAVATION IS BACKFILLED SUCH THAT THE COLORED TAPE WILL BE VISIBLE WHEN THE PROJECT IS COMPLETED. THE ENDS OF THE RISER PIPE AND MANHOLE STUBS SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE PIPE. CONTRACTOR'S METHODS FOR SUPPORTING AND BACKFILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER.

FURNISHING AND INSTALLING RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 6" PIPE AND REINFORCED CONCRETE ENCASEMENT FOR THE VARIOUS MAIN SEWER PIPE SIZES INDICATED, WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING SADDLES, BENDS, CONCRETE, REINFORCING STEEL, CAPS OR PLUGS, AND ALL OTHER NECESSARY MATERIALS OR WORK. CONCRETE ENCASEMENT OF THE RISER PIPE TO THE TOP OF THE BEND AS SHOWN BY THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

THE PROJECT INSPECTOR SHALL REPORT ON INSPECTOR CARDS THE LOCATION OF ALL RISERS CONSTRUCTED AS MEASURED FROM THE NEAREST MANHOLE, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER AND OTHER PAY QUANTITIES INVOLVED. THE PROJECT INSPECTOR SHALL ALSO REPORT ON INSPECTOR CARDS THE LOCATION, DIRECTION OF SERVICE, AND SIZE OF ALL STUBS INSTALLED IN MANHOLES.

5/5

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