LATERAL 12, MAIN 7, S.S. NO. 23

PROJECT NO.
468-76-245-80530-000-000-001

CITY OF WICHITA, KANSAS

R.W. LINN CITY ENGINEER

MARCH, 1978

NOTE: RISERS AND ADDITIONAL STUBS IN MANHOLES SHALL BE INSTALLED ON THIS PROJECT TO SERVE LOTS WHERE THE DEPTH OF THE 8" SEWER IS GREATER THAN 10 FT., WHERE THE SEWER IS IN ROCK, OR WHERE THE SEWER IS IN GROUND WATER. ELEVATIONS OF STUBS AND TOPS OF RISERS SHALL BE SUCH THAT WILL FACILITATE CONNECTION OF BASEMENT DRAINS WHEN THESE LOTS ARE DEVELOPED. RISER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SLOPING TRENCH WALL AS SHOWN ON STANDARD RISER DETAIL SHEET. LOCATIONS OF THE ENDS OF THE RISERS SHALL BE MARKED BY FASTENING GREEN PLASTIC COLORED TAPE TO THE END OF THE RISER AND BROUGHT TO THE GROUND SURFACE AS THE EXCAVATION IS BACKFILLED SUCH THAT THE COLORED TAPE WILL BE VISIBLE WHEN THE PROJECT IS COMPLETED. ALL RISERS SHALL BE CONSTRUCTED USING A.B.S. SCHEDULE 40 PIPE.

INDEX TO DRAWINGS

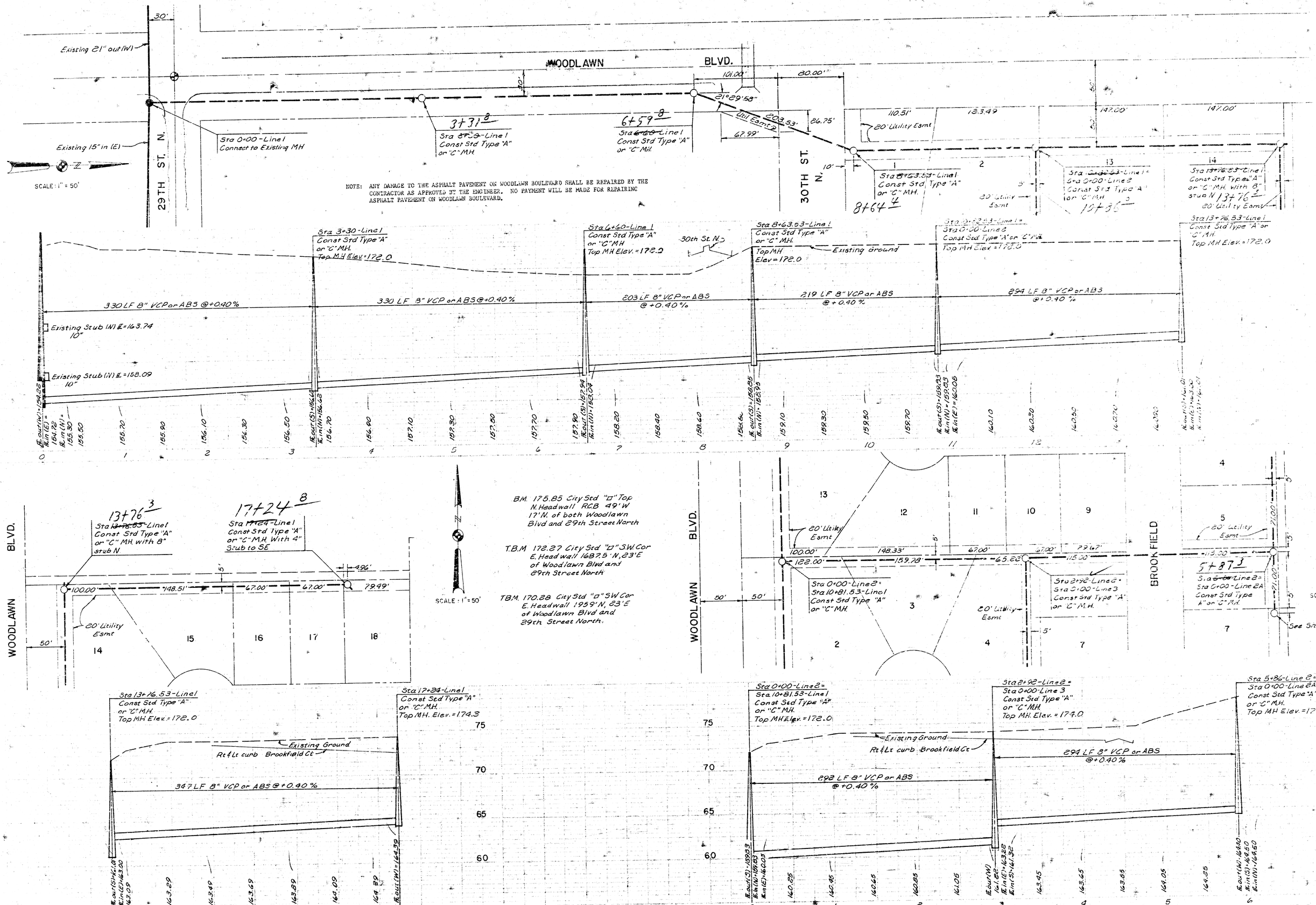
SHEET NO.	DESCRIPTION
1	TITLE & LOCATION MAP
2	LINE 1,2
3	LINE 2,2A,3
4-5	SEWER APPURTENANCES

COTTONWOOD VILLAGE FIRST ADDITION

As built 9-11-78

VAN DOREN - HAZARD - STALLINGS
ARCHITECTS - ENGINEERS - PLANNERS
WICHITA, KANSAS

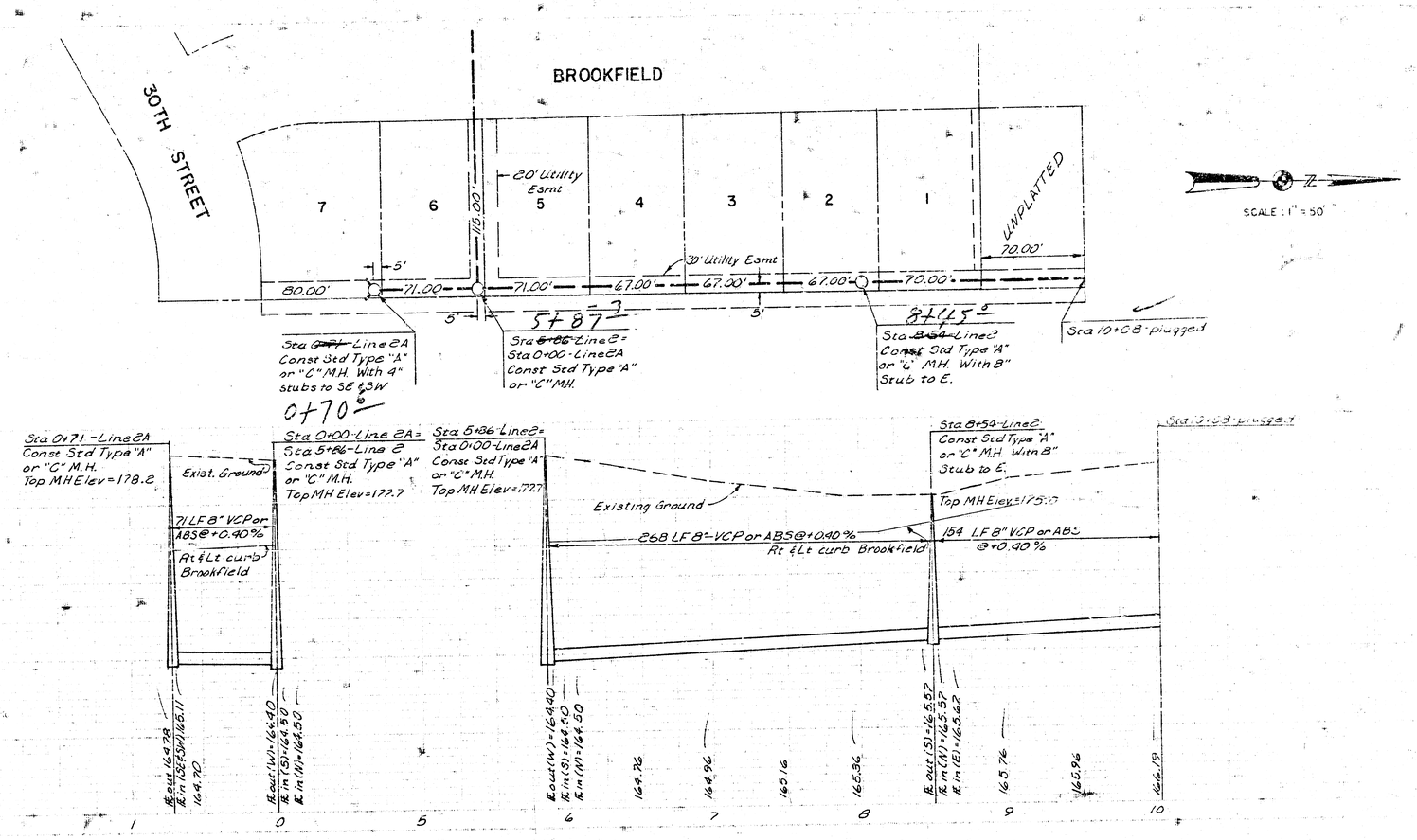
SHEET 1 OF 4

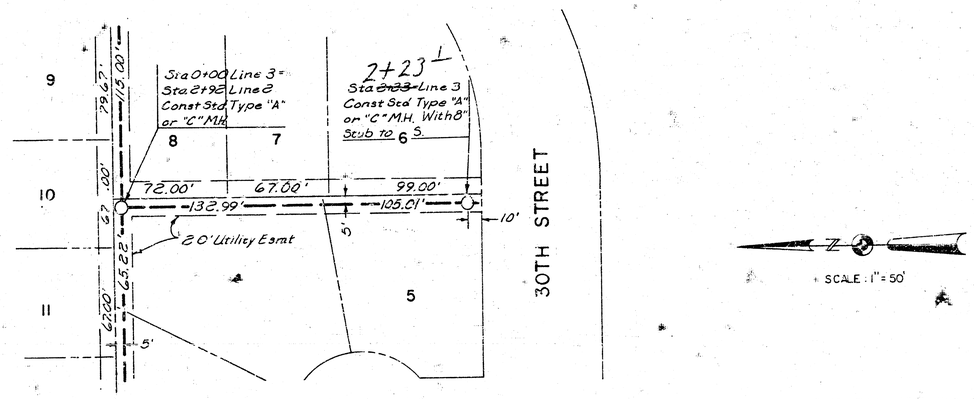

WOODLAWN BLVD.
30TH ST. N.
29TH ST. N.
Existing 21" out (W)
Existing 15" in (E)
Sta 0+00 - Line 1
Connect to Existing MH
3+37.8
Sta 3+38 - Line 1
Const Std Type "A"
or "C" MH.
6+59.8
Sta 6+60 - Line 1
Const Std Type "A"
or "C" MH.
Util Esmt
203.53'
26.75'
67.99'
21°29'58"
101.00'
80.00'
30'
10'
5'
110.51'
183.49'
147.00'
147.00'
20' Utility Esmt
1
2
13
14
Sta 8+63.53 - Line 1
Const Std Type "A"
or "C" MH.
8+64.4
Sta 0+00 - Line 2
Const Std Type "A"
or "C" MH.
13+76.3
Sta 13+76.53 - Line 1
Const Std Type "A" or "C" MH with 8" stub N
13+76.3
20' Utility Esmt
Sta 13+76.53 - Line 1
Const Std Type "A" or "C" MH.
Top MH Elev. = 172.0
SCALE: 1" = 50'
NOTE: ANY DAMAGE TO THE ASPHALT PAVEMENT ON WOODLAWN BOULEVARD SHALL BE REPAIRED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR REPAIRING ASPHALT PAVEMENT ON WOODLAWN BOULEVARD.
Sta 3+30 - Line 1
Const Std Type "A"
or "C" MH.
Top MH Elev. = 172.0
Sta 6+60 - Line 1
Const Std Type "A"
or "C" MH
Top MH Elev. = 172.0
30th St. N.
Sta 8+63.53 - Line 1
Const Std Type "A"
or "C" MH.
Top MH
Elev. = 172.0
Existing Ground
Sta 0+00 - Line 2
Sta 0+00 - Line 3
Const Std Type "A" or "C" MH.
Top MH Elev. = 172.0
330 LF 8" VCP or ABS @ +0.40%
330 LF 8" VCP or ABS @ +0.40%
203 LF 8" VCP or ABS @ +0.40%
219 LF 8" VCP or ABS @ +0.40%
294 LF 8" VCP or ABS @ +0.40%
Existing Stub (W) IE = 163.74
10"
Existing Stub (W) IE = 158.09
10"
IE out (W) = 154.22
IE in (E) = 154.22
IE in (W) = 155.30
155.50
155.20
155.90
156.10
156.30
156.50
IE out (S) = 156.63
IE in (W) = 156.33
156.70
156.90
157.10
157.30
157.50
157.70
IE out (S) = 157.90
IE in (W) = 157.54
IE in (W) = 157.58
158.20
158.40
158.60
IE out (S) = 158.85
IE in (W) = 158.95
159.10
159.30
159.50
159.70
IE out (S) = 159.83
IE in (W) = 159.83
IE in (E) = 160.06
160.10
160.30
160.50
160.70
160.90
IE out (W) = 161.01
IE in (E) = 161.01
IE in (W) = 161.01
0
1
2
3
4
5
6
7
8
9
10
11
12
BM. 176.85 City Std "D" Top N. Headwall RCB 49' W 17' N. of both Woodlawn Blvd and 29th Street North
T.B.M 172.27 City Std "D" SW Cor E. Headwall 1687.5' N, 23' E of Woodlawn Blvd and 29th Street North
TBM. 170.28 City Std "D" SW Cor E. Headwall 1959' N, 23' E of Woodlawn Blvd and 29th Street North.
SCALE: 1" = 50'
13+76.3
Sta 13+76.53 - Line 1
Const Std Type "A"
or "C" MH. with 8"
stub N
17+24.8
Sta 17+24 - Line 1
Const Std Type "A"
or "C" MH. With 4"
Stub to SE
4.96'
100.00'
148.51'
67.00'
67.00'
79.99'
5'
50'
20' Utility Esmt
14
15
16
17
18
WOODLAWN BLVD.
Sta 13+76.53 - Line 1
Const Std Type "A"
or "C" M.H.
Top MH Elev. = 172.0
Sta 17+24 - Line 1
Const Std Type "A"
or "C" M.H.
Top MH. Elev. = 174.3
Existing Ground
Rt & Lt curb Brookfield Ct
347 LF 8" VCP or ABS @ +0.40%
IE out (S) = 161.01
IE in (E) = 163.00
163.29
163.49
163.69
163.89
164.09
164.29
IE out (W) = 164.39
75
70
65
60
WOODLAWN BLVD.
BROOKFIELD
13
12
11
10
9
5
4
3
2
7
100.00'
122.00'
198.33'
159.78'
67.00'
65.22'
67.00'
79.62'
115.00'
115.00'
21.00'
5'
50'
50'
20' Utility Esmt
Sta 0+00 - Line 2 =
Sta 10+81.53 - Line 1
Const Std Type "A"
or "C" M.H.
Sta 2+82 - Line 2 =
Sta 0+00 - Line 3
Const Std Type "A"
or "C" M.H.
5+87.3
Sta 5+86 - Line 2 =
Sta 0+00 - Line 2A
Const Std Type "A" or "C" M.H.
See Sheet 3
Sta 0+00 - Line 2 =
Sta 10+81.53 - Line 1
Const Std Type "A"
or "C" M.H.
Top MH Elev. = 172.0
Existing Ground
Rt & Lt curb Brookfield Ct
292 LF 8" VCP or ABS @ +0.40%
Sta 2+82 - Line 2 =
Sta 0+00 - Line 3
Const Std Type "A"
or "C" M.H.
Top MH Elev. = 174.0
294 LF 8" VCP or ABS @ +0.40%
Sta 5+86 - Line 2 =
Sta 0+00 - Line 2A
Const Std Type "A"
or "C" M.H.
Top MH Elev. = 172.7
IE out (S) = 159.93
IE in (E) = 160.03
160.25
160.45
160.65
160.85
161.05
IE out (W) = 161.22
IE in (E) = 161.32
IE in (S) = 161.32
163.45
163.65
163.85
164.05
164.25
IE out (W) = 164.40
IE in (S) = 164.50
IE in (W) = 164.50
75
70
65
60
2/4

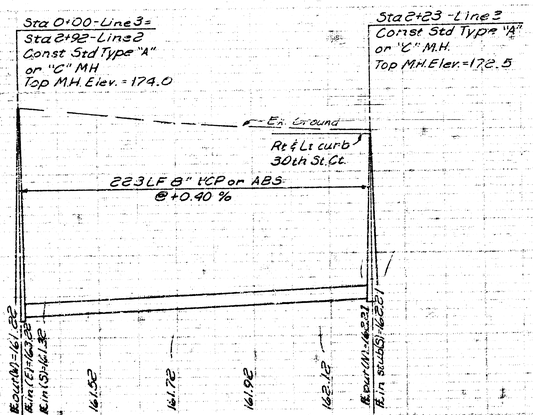
B.M. 175.85 City Std. "□" Top N. Headwall RCB. 49' W., 17' N of both Woodlawn Blvd and 29th Street North.

T.B.M. 172.27 City Std "□" S.W. Cor E. Headwall 1687.5' N., 23' E. of Woodlawn Blvd and 29th Street North.

T. B.M. 170.28 City Std "□" SW Cor. E. Headwall 1959' N, 23' E of Woodlawn Blvd. and 29th Street North.







75
70
65
60

3/4

VERTICAL RISER DETAIL

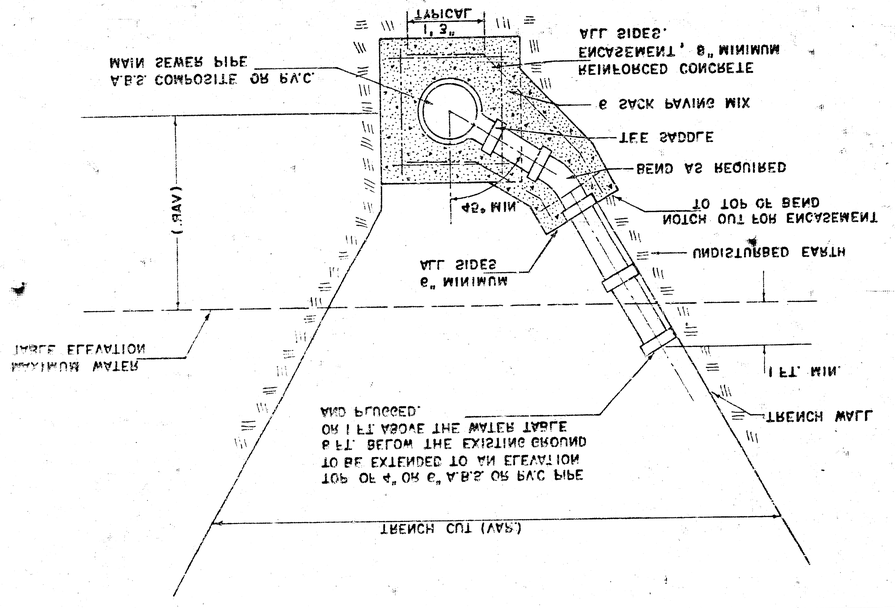
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION

(TYPICAL FEET OR RIGHT)

SLOPING TRENCH WALLS

A.B.S. COMPOSITE OR P.V.C. PIPE

DETAIL FOR VERTICAL RISER



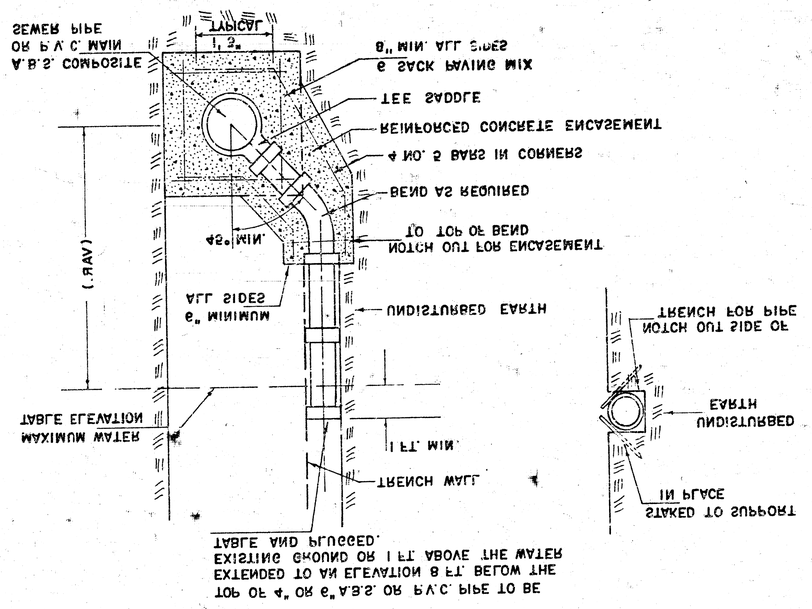
GENERAL NOTES
(A.B.S. COMPOSITE OR P.V.C. PIPE RISER)

RISERS SHALL BE INSTALLED TO SERVE ALL PROPERTY WHICH IS PRESENTLY DEVELOPED WHEN THE MAIN SEWER LINE IS IN GROUND WATER OR WHEN THE MAIN SEWER LINE IS DEEPER THAN 8 FEET. RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH RISERS SHALL BE INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY AND FOUR INCH RISERS SHALL BE INSTALLED TO SERVE DEVELOPED PROPERTY SHALL BE INSTALLED IN STUBS SHALL BE INSTALLED IN MANHOLES APPROVED BY THE PROPERTY OWNER. PROPERTY. LOCATION OF RISERS TO SERVE RESIDENTIAL PROPERTY AND FOUR INCH RISERS SHALL BE INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY. SIX INCH RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH 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 TEE SADDLE, TAPPING TEE, FITTINGS AND ALL EXCAVATION, FURNISHING AND INSTALLING RISERS AS INDICATED IN THE DRAWINGS.
BE ENCASED TO THE TOP OF THE BEND FOUR INCH OR SIX INCH RISER PIPE SHALL OF THE CENTERLINE OF THE RISER. A MINIMUM OF 3 FEET ON BOTH SIDES P.V.C. MAIN SEWER PIPE SHALL EXTEND ENCASEMENT OF A.B.S. COMPOSITE OR ENGINEER OR AS SHOWN BY THE ALTERNATIONS AS DETERMINED BY THE FIELD PROVIDE SATISFACTORY SERVICE CONNECTWHERE LOCATIONS OF MANHOLES WILL

DETAIL FOR VERTICAL RISER

A.B.S. COMPOSITE OR P.V.C. PIPE

VERTICAL TRENCH WALLS



GENERAL NOTES
(A.B.S. COMPOSITE OR P.V.C. PIPE RISER)

CONCRETE ENCASEMENT OF A.B.S. OR P.V.C. PIPE AS SHOWN BY THE DRAWING 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 KEEP A RECORD OF THE STATION OF RISERS INSTALLED, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER PIPE AND THE PAY QUANTITIES INVOLVED. CONTRACTOR'S METHOD FOR SUPPORTING AND BACKFILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER. THE ENDS OF RISER PIPE SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE RISER PIPE.

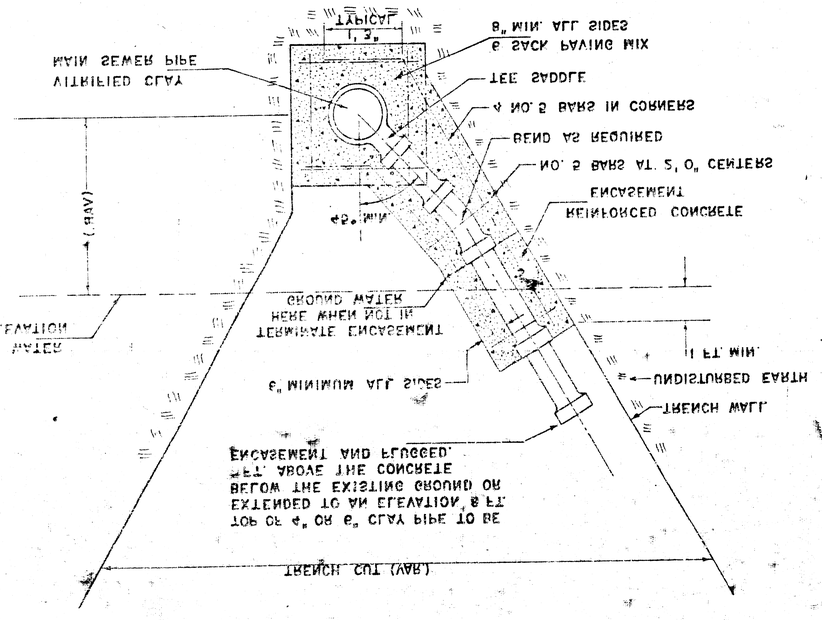
CONTINUED)

(TYPICAL FEET OR RIGHT)

SLOPING TRENCH WALLS

VITRIFIED CLAY PIPE

DETAIL FOR VERTICAL RISER



GENERAL NOTES (CLAY PIPE RISER)

RISERS SHALL BE INSTALLED TO SERVE ALL PROPERTY WHICH IS PRESENTLY DEVELOPED WHEN THE MAIN SEWER LINE IS IN GROUND WATER OR WHEN THE MAIN SEWER LINE IS DEEPER THAN 8 FEET. RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 6" PIPE, AND REINFORCED CONCRETE ENCASEMENT FOR THE VARIOUS PIPE SIZES INDICATED WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING TEE SADDLE, TAPPING TEE, FITTINGS AND ALL OTHER NECESSARY MATERIALS OR WORK. TAP ON VITRIFIED CLAY MAIN SEWER PIPE SHALL BE COMPLETED BY THE CITY MAINTENANCE DEPARTMENT. THE PROJECT INSPECTOR SHALL KEEP A RECORD OF THE STATION OF RISERS INSTALLED, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER, AND THE PAY QUANTITIES INVOLVED. CONTRACTORS METHOD FOR SUPPORTING AND BACKFILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER. THE ENDS OF RISER PIPE SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE RISER PIPE.

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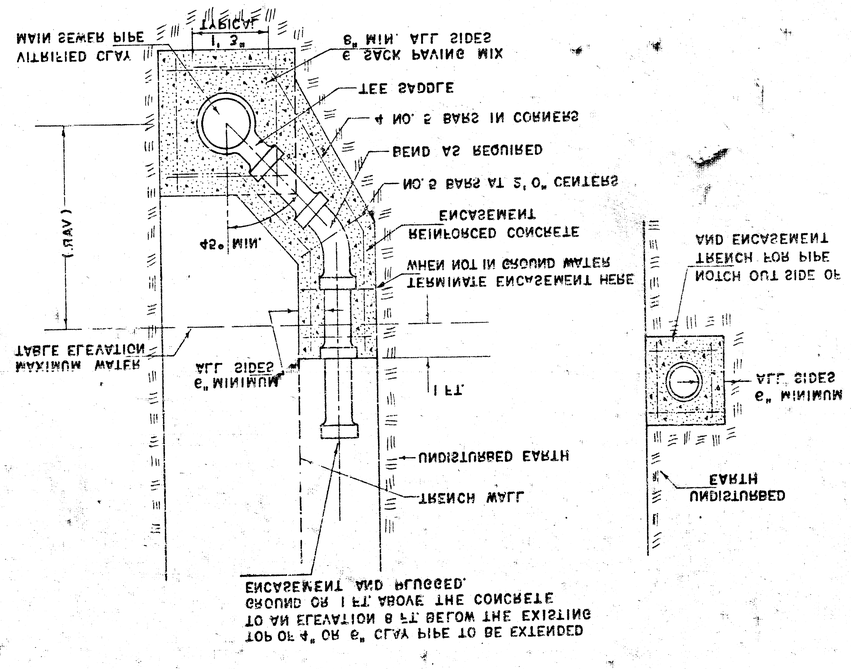
DETAIL FOR VERTICAL RISER

VITRIFIED CLAY PIPE

VERTICAL TRENCH WALLS

(TYPICAL FEET OR RIGHT)



GENERAL NOTES (CLAY PIPE RISER)

RISER PIPE SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE RISER PIPE.

CONTINUED)