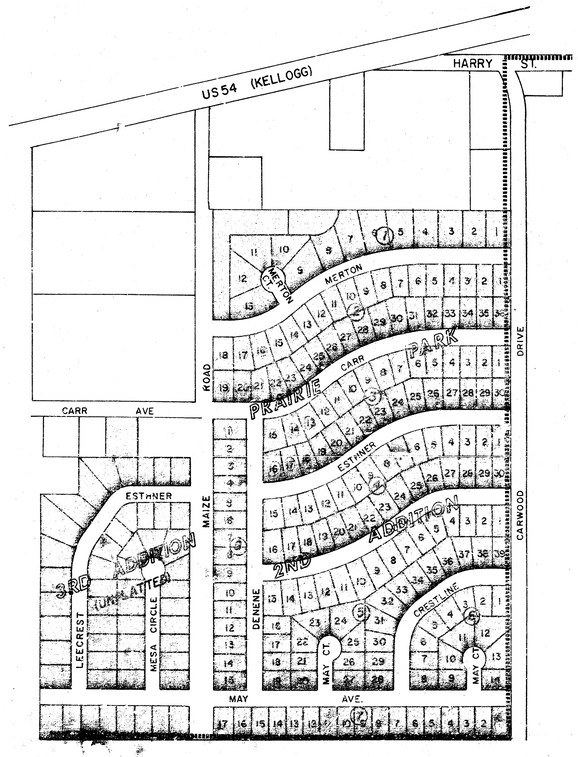
MAIN 11 S.W. INTERCEPTOR

PROJECT NO.
468-76-245-80733-000-000-001

CITY OF WICHITA, KANSAS
R.W. LINN · CITY ENGINEER





INDEX TO DRAWINGS

SHEET	DESCRIPTION
1	TITLE SHEET
2-6	PLAN-PROFILE
7	RISER DETAIL
8	SEWER APPURTENANCES

Kenneth H. Brayton

NOTE: FIELD ENGINEER SHALL SET TOPS OF MANHOLES TO MATCH PROPOSED FINISHED GRADE AS DETERMINED BY THE DEVELOPER. RISERS AND ADDITIONAL STUBS SHALL BE INSTALLED ON THIS PROJECT TO SERVE INDIVIDUAL LOTS WHEN ORDERED BY THE FIELD ENGINEER. RISER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS 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 S.D.R. 23.5 A.B.S. OR P.V.C. PIPE. ELEVATIONS OF STUBS AND TOPS OF RISERS SHALL BE SUCH THAT WILL FACILITATE CONNECTION OF BASEMENT DRAINS WHEN THESE LOTS ARE DEVELOPED.

As Built
3-81

Van Doren - Hazard - Stallings
Architects • Engineers • Planners
Topeka Wichita Minneapolis

Sheet 1 of 6

Scale: 1"=50' Horiz.
1"=5' Vert.

Warning
High Pressure Gas Line.
Contractor shall contact Gas Service Co. @ 243-7511 for location of gas line prior to construction.

Note: Contractor shall contact Southwestern Bell for location of buried telephone cable prior to construction

BM: City std disc. Seville & US 54
71.5' SW of center conc crossover US 54 & 135' Due W. of E.L. Seville extd
Elev = 132.34

BM: Spike in 24" tree 40' NE of intersect. of ℄ & of Harry & Carrwood.
Elev = 122.79

Force Main

Remove & replace 80 LF fence

Sta. 10+55 Construct Standard Type "B" MH w/15" stub E

30' 30'

6'

Sta 10+00 Connect to existing MH. (brick) Remove 15" stub S.

8" steel gas main

HARRY STREET

Sta 11+69 Const Std 5' dia Type "B" MH

Const two-barrel inverted siphon. Encase in concrete from Sta 11+74 to 12+56. See details this sheet

Cowskin Creek

abandoned steel piles

Sta 16+72 Const Std 5' dia Type "B" MH w/ special invert. See details this sheet

demolished bridge site

Force Main

remove wood posts

Remove 6" steel pipe

48" cottonwoods 60' d.

Remove & Replace 54" RCP

Sta 13+38 Const Std Type "A" MH w/18" stub W.

BM

Note: Contractor shall remove & replace fence where necessary. Land within the 20' temp. const. & 15' Util. Esmts. shall be restored as near to original condition as possible by grading, seeding, fertilizing

Sta 14+72 Const std Type "B" MH

CARWOOD

30'

15' Util Esmt

30'

Temporary Construction Easement

Sta 19+55.62 Const Std Type "B" MH Outside Drop, 8" Stub W.

Remove 80 L.F of hedge

MERTON AVE.

CONCRETE ENCASEMENT DETAIL

13 - long #4 bar, cont.

3" min. typ.

8" min typ.

Transverse #4 @ 18" ctrs

IE elev = 104.5
elev = 103.8

SIPHON OUTLET MANHOLE

18" VCP

IE out = 106.67

Shape ℄ Grout

5' dia Type "B" MH

IE in = 107.47

IE in = 106.97

12" DI Pipe

8" D.I. Pipe

SIPHON INLET M.H.-SPECIAL INVERT DETAIL

12" DI Pipe

IE MH

8" D.I. Pipe

IE out = 108.33

6" 6"

IE out = 107.83

A

A

Shape ℄ Grout

5' dia Type "B" MH

Top of weir: 108.64

IE in = 108.13

18" VCP

12" D.I.P

8" D.I.P

5' dia Type "B" MH.

SECTION A-A

See Sht 8 for Special Bedding Method

Sta 10+00 Connect to Exist. MH

Sta 10+33.00 Const. Std. Type "B" MH w/ 6" stub E Top of MH Elev. = 111.3

Sta 11+62 - Const. Std 5' dia Type "B" MH Top MH elev. = 116.5

Sta 12+29 - Const. Std 5' dia Type "B" MH Top MH elev. = 118.00

Sta 13+31.10 Const. Std. Type "A" MH Top of MH Elev. = 121.8

Sta 16+32.00 Const. Std. Type "B" MH Top of MH Elev. = 126.5

Sta 19+55.62 Const. Std. Type "B" MH Outside Drop Top of MH Elev. = 128.7 & Stub (W)

55 L.F of 21" VCP @ 0.82%

105 LF 18" VCP @ 10.18%

Const. two barrel inverted siphon

66 LF 18" VCP @ 10.18%

319 LF 18" VCP @ 10.18%

306 L.F. 18" VCP @ 10.12%

Note: All ductile iron pipe & Fittings in inverted siphon shall have Polybond lining or approved equal.

82 L.F. Concrete Encasement See details this sheet

8-54" RCP IE in (W) = 104.1 IE out (E) = 103.8

IE = 103.33 = 52"-01" Force Main

IE 8"-12" D.I.P. = 108.00

Bend 11¼° M.J.M.J Bend

11¼° M.J.M.J Bend

IE out (W) = 106.86
IE in (S) = 104.09
IE in (W) = 105.36

IE out (E) = 106.58
IE in (W) = 106.25
IE in (S) = 104.71

106.50

IE out (E) = 106.58
IE in (W) = 106.33
IE in (E) = 105.82

IE out (E) = 107.83
IE in (W) = 107.33
IE in (E) = 106.83

IE out (E) = 108.33
IE in (W) = 108.08
IE in (E) = 107.58

IE out (E) = 108.20
IE in (S) = 106.37
IE in (W) = 109.03

108.30

108.41

108.57

108.56

108.66

IE out (W) = 108.66
IE in (S) = 108.48

108.74

108.80

108.86

108.92

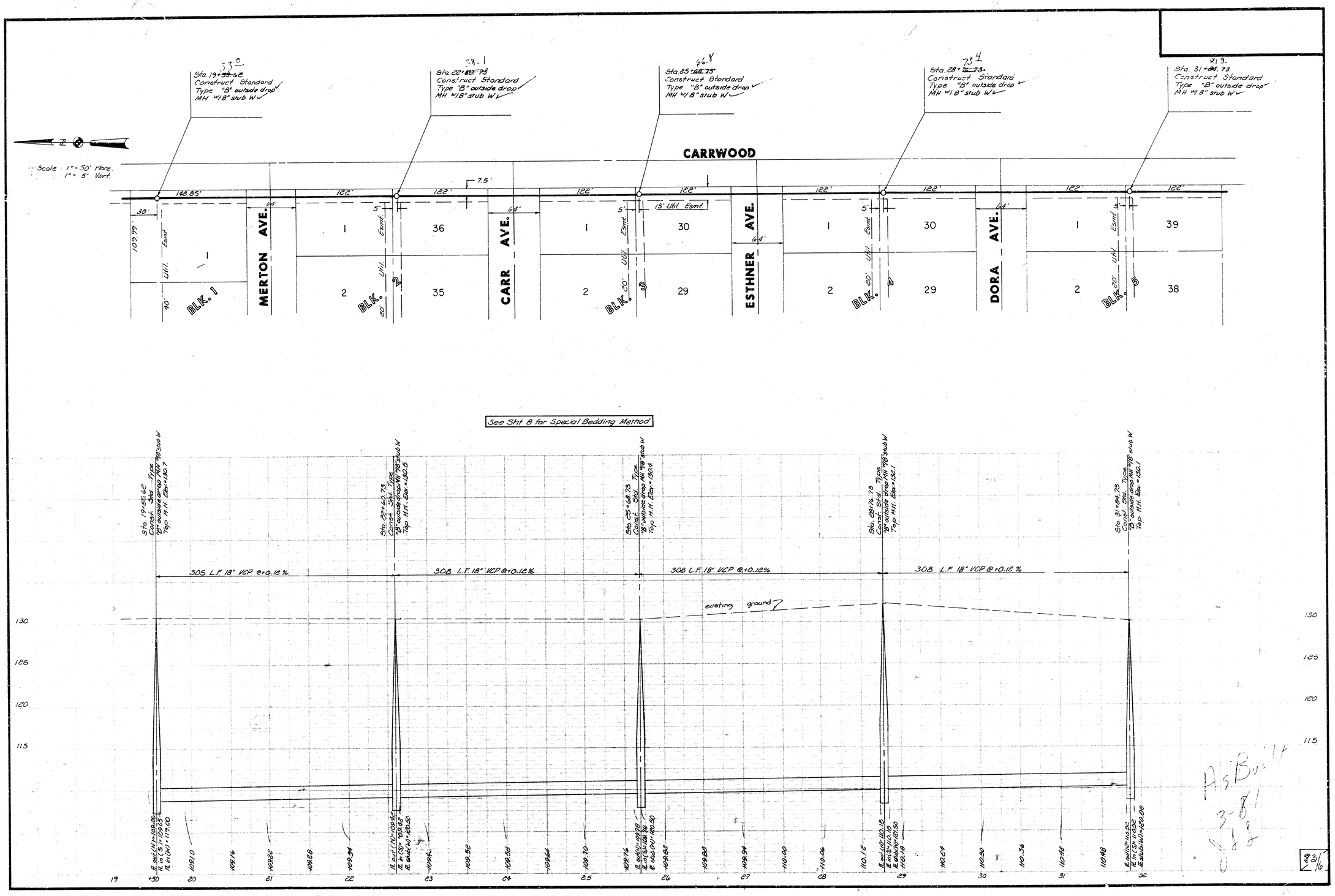
108.98

IE out (N) = 109.05
IE in (S) = 109.05
IE in (W) = 114.00

10 11 12 13 14 15 16 17 18 19

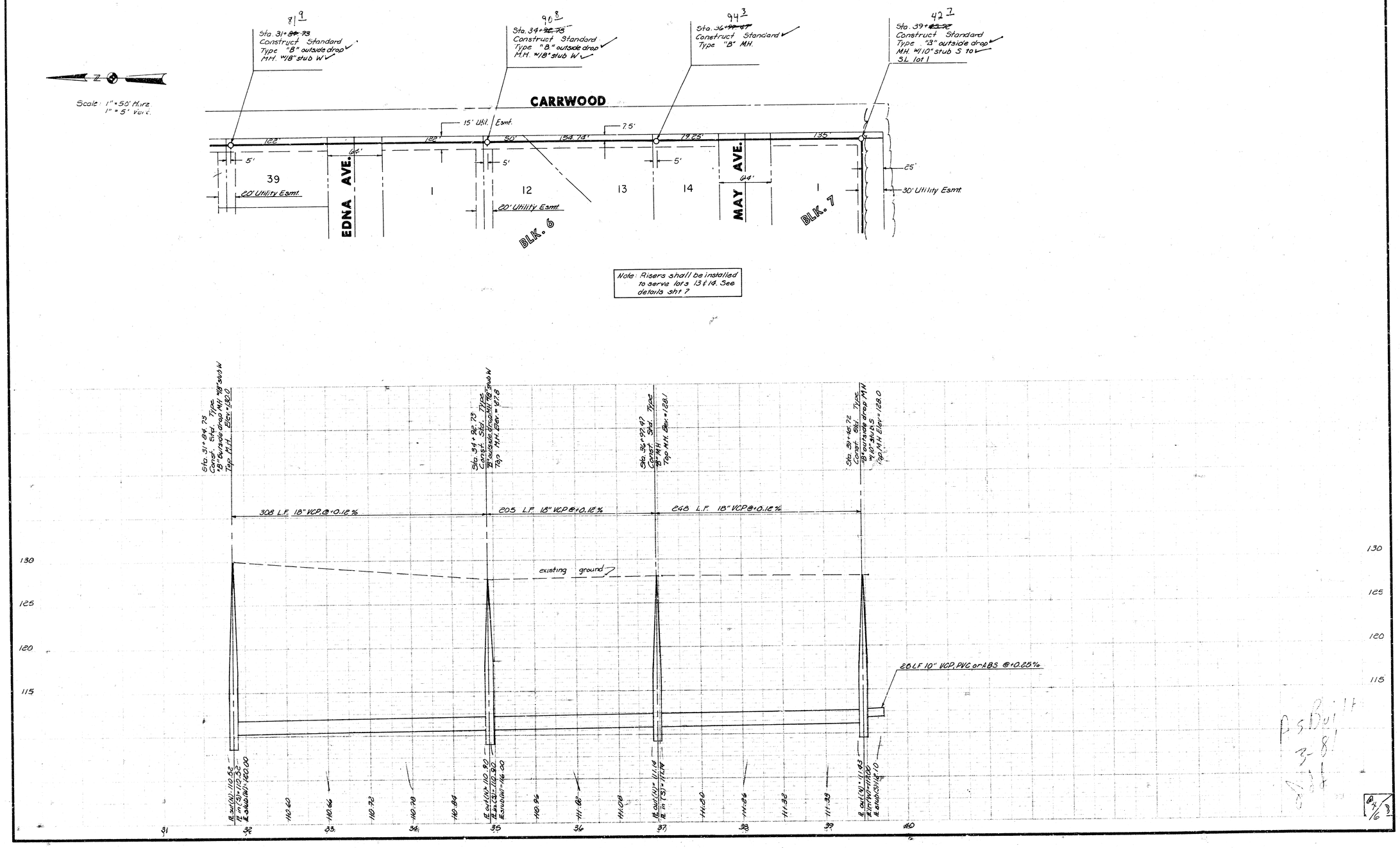
130 125 120 115 110 105

Sht 9 of 16



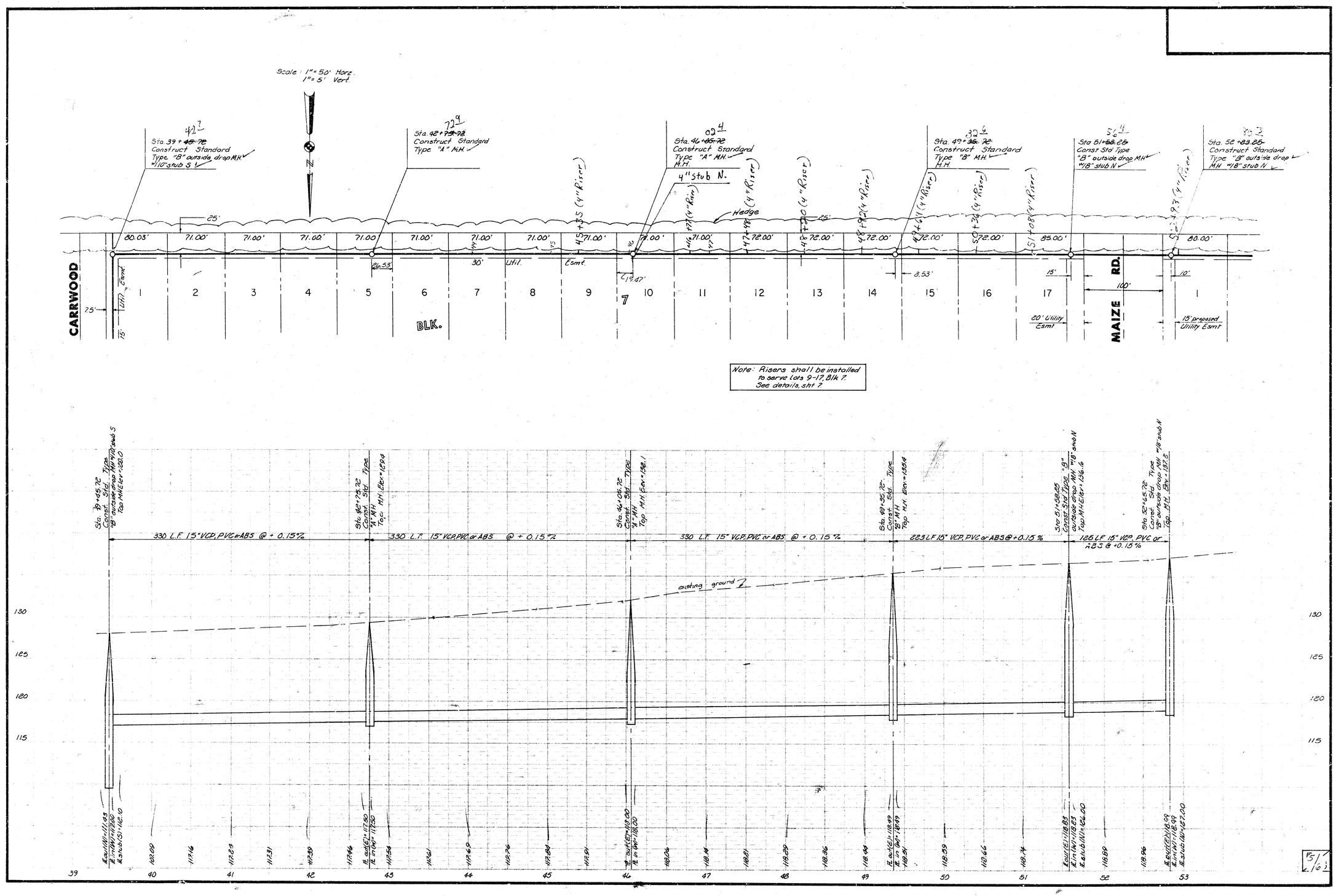
Sta. 19+55.62
Construct Standard
Type "B" outside drop
MH w/8" stub W
Sta. 22+60.73
Construct Standard
Type "B" outside drop
MH w/8" stub W
Sta. 25+68.73
Construct Standard
Type "B" outside drop
MH w/8" stub W
Sta. 28+76.73
Construct Standard
Type "B" outside drop
MH w/8" stub W
Sta. 31+84.73
Construct Standard
Type "B" outside drop
MH w/8" stub W
Scale: 1" = 50' Horz.
1" = 5' Vert.
CARRWOOD
148.85'
122'
7.5'
15' Util. Esmt.
MERTON AVE.
CARR AVE.
ESTHNER AVE.
DORA AVE.
BLK. 1
BLK. 2
BLK. 3
BLK. 4
BLK. 5
See Sht 8 for Special Bedding Method
305 L.F. 18" VCP @ +0.12%
308 L.F. 18" VCP @ +0.12%
308 L.F. 18" VCP @ +0.12%
308 L.F. 18" VCP @ +0.12%
existing ground
130
125
120
115
19
20
21
22
23
24
25
26
27
28
29
30
31
32

As Built
3-81



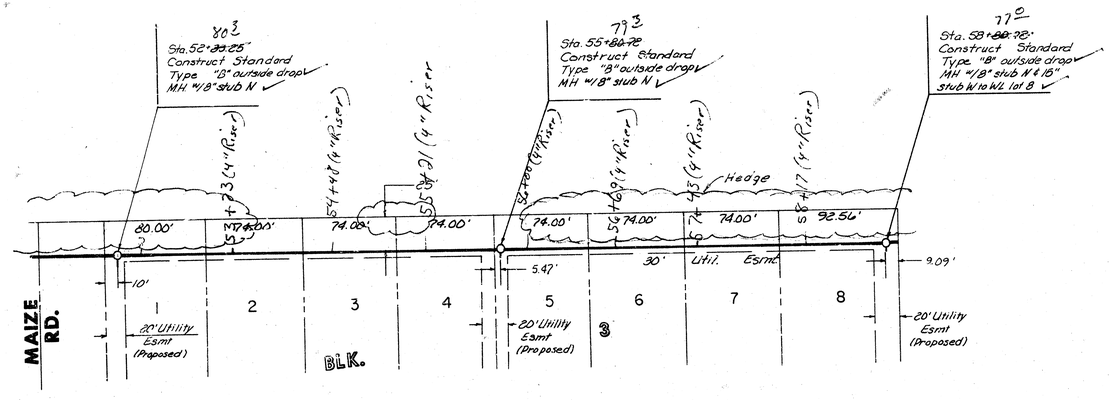
Scale: 1" = 50' Horz.
1" = 5' Vert.
81 9
Sta. 31+84.73
Construct Standard
Type "B" outside drop
MH. w/18" stub W
90 8
Sta. 34+92.73
Construct Standard
Type "B" outside drop
M.H. w/18" stub W
94 3
Sta. 36+97.47
Construct Standard
Type "B" M.H.
42 7
Sta. 39+45.72
Construct Standard
Type "B" outside drop
MH. w/110" stub S to
SL lot 1
CARRWOOD
15' Util. Esmt.
7.5'
122'
122'
50'
154.74'
79.25'
135'
5'
64'
5'
5'
64'
25'
39
20' Utility Esmt.
EDNA AVE.
1
12
20' Utility Esmt.
13
14
MAY AVE.
1
30' Utility Esmt.
BLK. 6
BLK. 7
Note: Risers shall be installed to serve lots 13 & 14. See details sht 7
Sta. 31+84.73
Const. Std. Type
"B" outside drop MH w/18" stub W
Top M.H. Elev. = 130.0
Sta. 34+92.73
Const. Std. Type
"B" outside drop MH w/18" stub W
Top M.H. Elev. = 127.8
Sta. 36+97.47
Const. Std. Type
"B" MH
Top M.H. Elev. = 128.1
Sta. 39+45.72
Const. Std. Type
"B" outside drop MH
w/10" stub S
Top M.H. Elev. = 128.0
308 L.F. 18" VCP @ +0.12%
205 L.F. 18" VCP @ +0.12%
248 L.F. 18" VCP @ +0.12%
existing ground
28 LF 10" VCP, PVC or ABS @ +0.25%
130
125
120
115
31
32
33
34
35
36
37
38
39
40

As Built
3-81



Scale: 1" = 50' Horz.
1" = 5' Vert.
Sta. 39 + 45.72
Construct Standard
Type "B" outside drop M.H.
w/10" stub S
Sta. 42 + 75.72
Construct Standard
Type "A" M.H.
Sta. 46 + 05.72
Construct Standard
Type "A" M.H.
4" stub N.
Hedge
Sta. 49 + 35.72
Construct Standard
Type "B" M.H.
Sta. 51 + 58.25
Const Std Type
"B" outside drop M.H.
w/18" stub N
Sta. 52 + 83.25
Construct Standard
Type "B" outside drop
M.H. w/18" stub N
CARRWOOD
BLK.
MAIZE RD.
Util. Esmt.
20' Utility Esmt
15' proposed Utility Esmt
Note: Risers shall be installed to serve Lots 9-17, Blk 7. See details, sht 7.
330 L.F. 15" VCP, PVC or ABS @ + 0.15%
223 L.F. 15" VCP, PVC or ABS @ + 0.15%
125 L.F. 15" VCP, PVC or ABS @ + 0.15%
existing ground

Scale : 1" = 50' Horz.
1" = 5' Vert.



Note: Risers shall be installed to serve Lots 1-8. See details, sht 7

