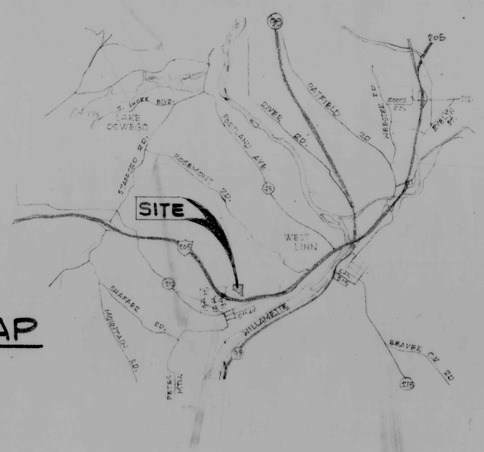
# WILLAMETTE VIEW ESTATES

## WEST LINN, OREGON

# CONSTRUCTION DRAWINGS




VICINITY MAP

SCALE : 1" = 10000'

## INDEX TO SHEETS

| ITEM | SHEET Nº |
|---|---|
| PLAN - STREETS & STORM SEWER | 1 & 2 |
| PROFILES - STREETS & STORM SEWER | 3 - 6 INCL. |
| PLAN - SANITARY SEWER & WATER | 7 - 9 INCL. |
| PROFILES - SANITARY SEWER | 10 - 16 INCL. |
| STANDARD DETAILS, SANITARY SEWER | 17 |


MACKENZIE ENGINEERING, INC.

0690 S.W. BANCROFT

PORTLAND, OREGON 97201

224 - 9560


REGISTERED PROFESSIONAL ENGINEER 6309 OREGON JULY 12, 1979 M. M. BRESIE

M. M. Bresie

CORRECTED TO "AS-BUILT 12-16-80


Willamette View Estates 80

NOTE:
FOR DETAILS HALL CT. CUL-DE-SAC & EYEBROWS BARNES PLACE SEE SHEET 2

N

SCALE: 1"=50'

TANNLER DRIVE

SEE SHEET N

BARNES CIRCLE

ISLAND

SLOPE GREENE

LOIS LANE

HALL CT.

HALL ST.

STORM LINE 1

STORM LINE

ST. EASE

SALOMO ROAD

SEE SHEET 2

* 18'-0", 12'-0" & 11'-6" - BARNES CIRCLE & HALL CT. & ST. - 60'-0" R.O.W.
.028 SLOPE & 6" CROWN

TYPICAL SECTION @ GREENE ST. & TANNLER DRIVE

TYPICAL DET. @ CURB

CONST. STD. TYPE 'C' CURB

CONST 3' CLASS C PVT. PER DETAIL

CONTIGUOUS SIDEWALK HALL COURT ONLY

CORRECTED TO "AS-BUILT": 12-4-80

REGISTERED PROFESSIONAL ENGINEER OREGON

WILLAMETTE VIEW ESTATES

SCALE: AS SHOWN | APPROVED BY: | DRAWN BY

DATE: | REVISED: 7-26-79, 5-21-80

STREET & STORM SEWER

MACKENZIE ENGINEERING INC. | DRAWING NUMBER 1 OF 7

7306

# HEADWALL DETAILS

(NO SCALE)



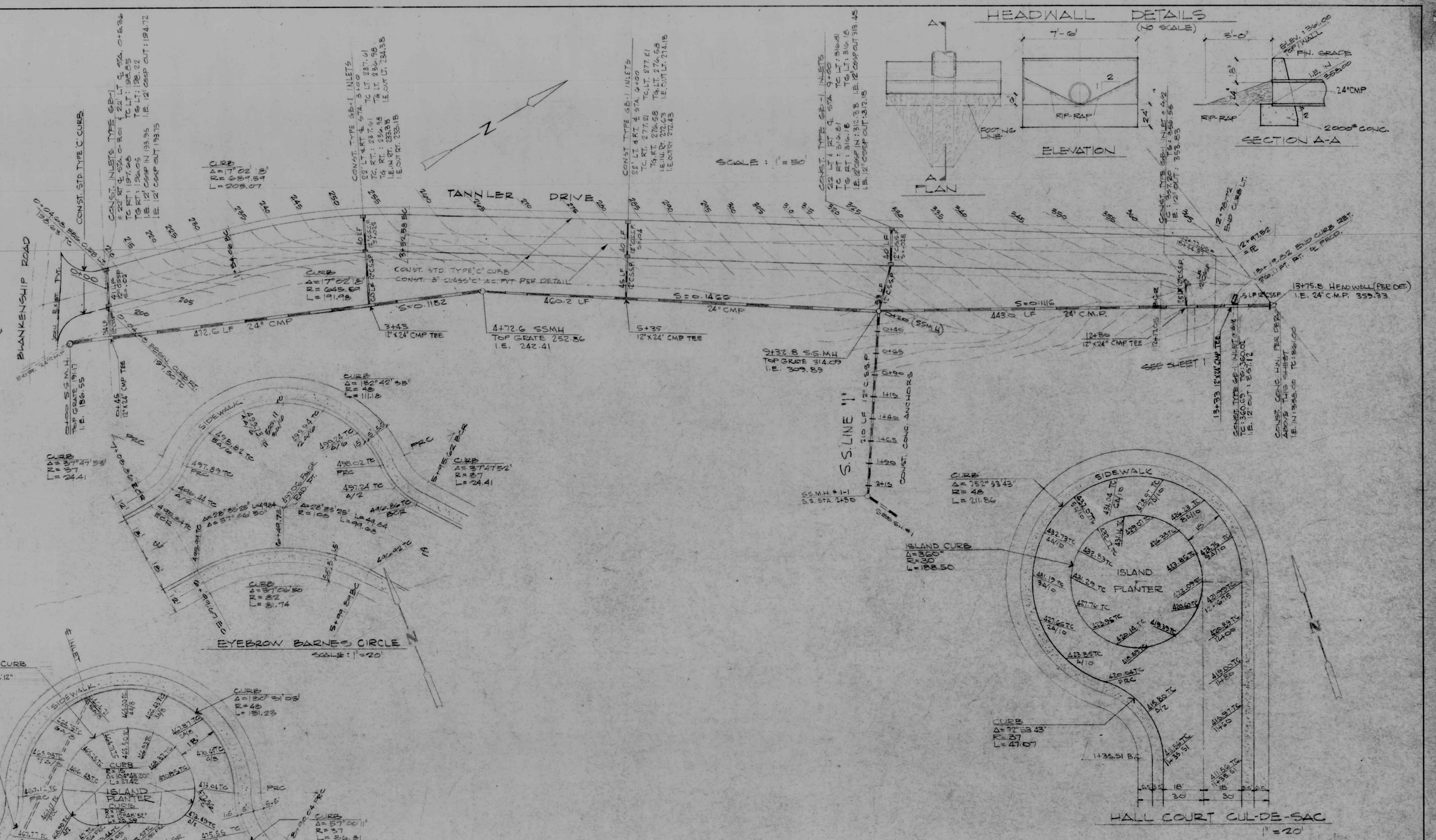

PLAN




ELEVATION




SECTION A-A




## CUL-DE-SAC & EYEBROW DETAILS

CORRECTED TO "AS-BUILT" 12-16-80

REGISTERED PROFESSIONAL ENGINEER
OREGON
JUNE 30, 1981
M. M. Beaman

| | | |
|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: AS SHOWN | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED 6-25-79, 7-23-79, 5-26-80 |
| STREET & STORM SEWER | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 2 OF 17 |

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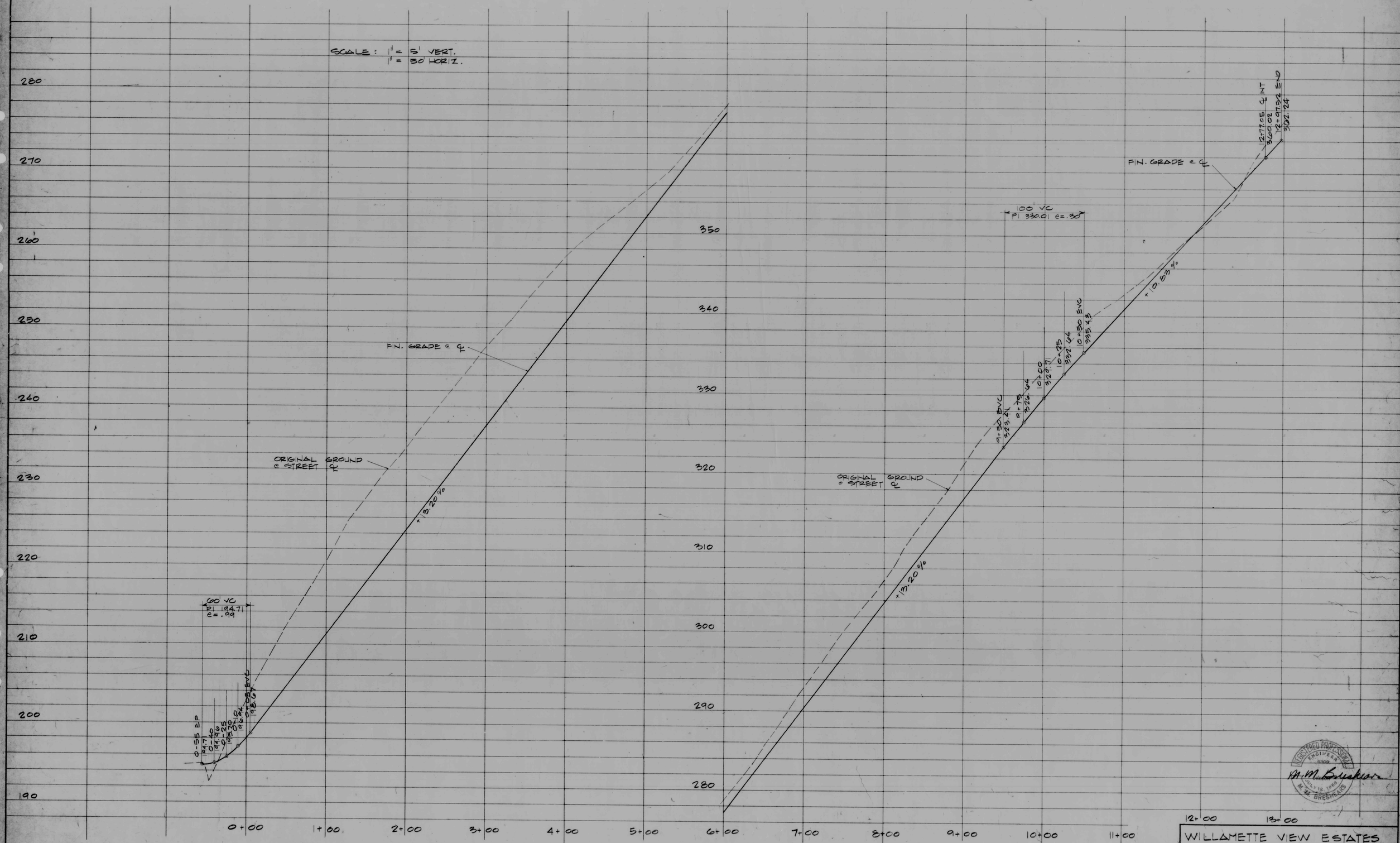


CORRECTED TO "AS-BUILT" 12-4-80

REGISTERED PROFESSIONAL ENGINEER
M. M. BRESHEARS
JULY 12, 1968

| | | |
|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED |
| TANNLER DRIVE PROFILE | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 3 OF 17 |

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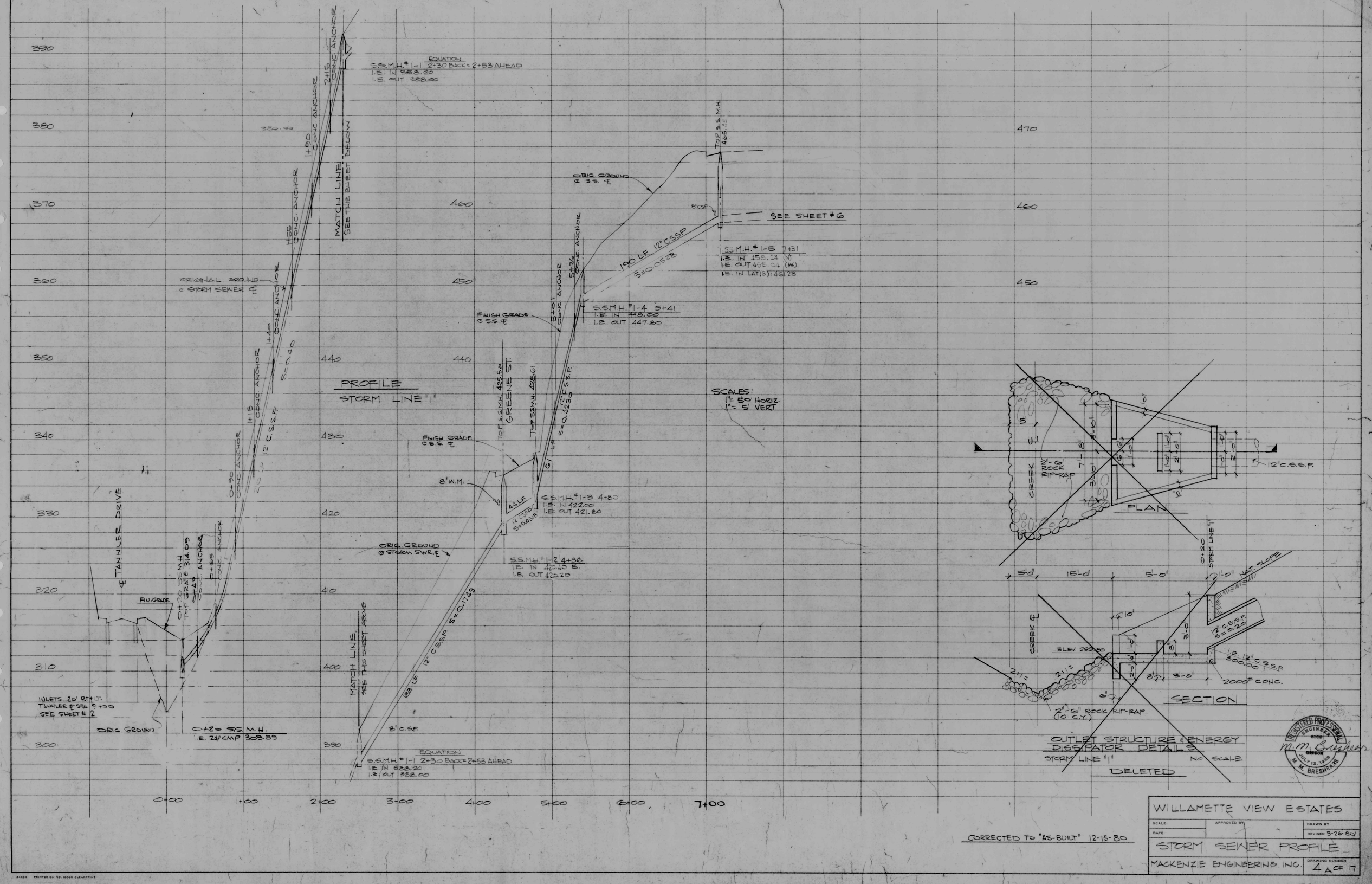


SCALES:
1" = 50 HORIZ.
1" = 5' VERT




OUTLET STRUCTURE & ENERGY DISSIPATOR DETAILS
STORM LINE "1" NO SCALE

DELETED

CORRECTED TO "AS-BUILT" 12-15-80

REGISTERED PROFESSIONAL ENGINEER OREGON JULY 12, 1968 M. M. BRESHEARS

M. M. Breshears

| | | |
|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED 5-26-80 |
| STORM SEWER PROFILE | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 4 OF 17 |

24X36 PRINTED ON NO. 1000H CLEARPRINT

78061

SCALE: 1" = 5' VERT.
1" = 50' HORIZ.

ORIGINAL GROUND @ STREET ℄

FIN. GRADE @ STREET ℄

MATCH LINE

MATCH LINE (SEE SHEET #5)

200' VC
P.I. = 359.14 e = 3.73

1-25 EVC 357.14

TOP S.S.M.H. 355.96

0-75 358.14
0-50 357.37
0-25 356.68
0-00 356.08
0-25 356.89
0-50 357.89
0-75 358.98
1-00 360.18
1-25 EVC 361.48

+15.00%

6" W.M.

6" S.S.P.

350 LF 12" C.S.S.P. S=0.1406

STORM SEWER LINE "3"

282 LF 12" C.S.S.P. S=0.1460

8" SAN.

+15.00%

S.S.M.H. # 3-2
S.S. STA. 2+82
I.E. IN 336.70
I.E. OUT 336.50
I.E. (LAT.) IN 339.05 N.
I.E. (LAT.) IN 390.53 S.
I.E. (LAT.) IN 389.35 N.E.

S.S.M.H. # 3-1 S.S. STA 0+00
I.E. 12" C.S.S.P. IN 345.33 W
I.E. 12" C.S.S.P. IN 345.00 N
I.E. 12" C.S.S.P. 342.30 S
I.E. 12" C.S.S.P. IN (LAT.) 351.45
I.E. EXISTG. 12" C.M.P. OUT 336.89

ROADWAY

351.45 I.E. (LAT.)

345.00 I.E.

345.33 I.E.

342.30 I.E.

EXISTG. 12" C.M.P.

200' VC
P.I. = 437.89 e = 0.87

TOP S.S.M.H. 438.39

5-50 EVC 438.13

5-75 438.19

6-00 PCVC 441.93

6-25 443.82

6-50 445.71

6-75 447.41

7+00 448.98

7+25 450.43

7+50 451.75

7+75 452.94

8+00 454.02 PCVC

8+25 454.89

8+50 455.57

8+75 456.04

9+00 456.30

9+25 456.34

9+50 456.16

9+75 455.78

10+00 455.18

10+25 454.37

10+50 453.34

10+75 452.11

11+00 450.66

11+25 448.99

11+50 447.11

11+75 445.02

12+00 EVC 442.72

+4.00%

-8.00%

5-00 BVC 431.39

5+25 432.92

5.50 434.37

5-75 435.69

6-00 BVC 436.88

+15.00%

12" C.S.S.P. S=0.1406

S.S. M.H. # 3-3 S.S. STA. 5+90
I.E. IN 430.20
I.E. OUT 430.00
I.E. (LAT.) IN 435.21 E.
I.E. (LAT.) IN 434.78 W.
I.E. (LAT.) IN 434.45 S.

STORM SEWER LINE "3"

400' VC
P.I. = 462.00 e = 6.82

TOP S.S.M.H. 456.34

TOP S.S.M.H. 455.33

TOP S.S.M.H. 453.10

S.S.M.H. # 2-1 S.S. STA 3+88
I.E. IN 451.33
I.E. OUT 451.13

358 LF 12" C.S.S.P.

S=0.0139

STORM SEWER LINE "2"

200' VC
P.I. = 423.44 e = 1.34

13-00 BVC 435.08

13-25 434.98

13-50 434.93

13-75 434.95

14+00 435.10

14+25 435.40

14+50 435.84

14+75 436.41

15+00 EVC 437.11

15+00 PCVC 408.44

+15.00%

S.S.M.H. # 1-2 S.S. STA. 1+12
TOP S.S.M.H. 425.50

S.S.M.H. # 1-1 S.S. STA. 0+00
I.E. IN 421.50 S.
I.E. IN 420.40 E.
I.E. OUT 420.20 N.

(SEE SHEET #4A S.S. LINE #1 PROFILE)

(SEE SHEET #5)

CORRECTED TO "AS-BUILT" 12-9-80

REGISTERED PROFESSIONAL ENGINEER 6306 JULY 12, 1978 M. M. BRESHEARS

M. M. Breshears

| | | | |
|---|---|---|---|
| WILLAMETTE VIEW ESTATES | | | |
| SCALE: | APPROVED BY: | DRAWN BY | |
| DATE: | | REVISED | 7-11-79 3-27-80 |
| GREENE STREET PROFILE | | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER | 4 OF 17 |

78061

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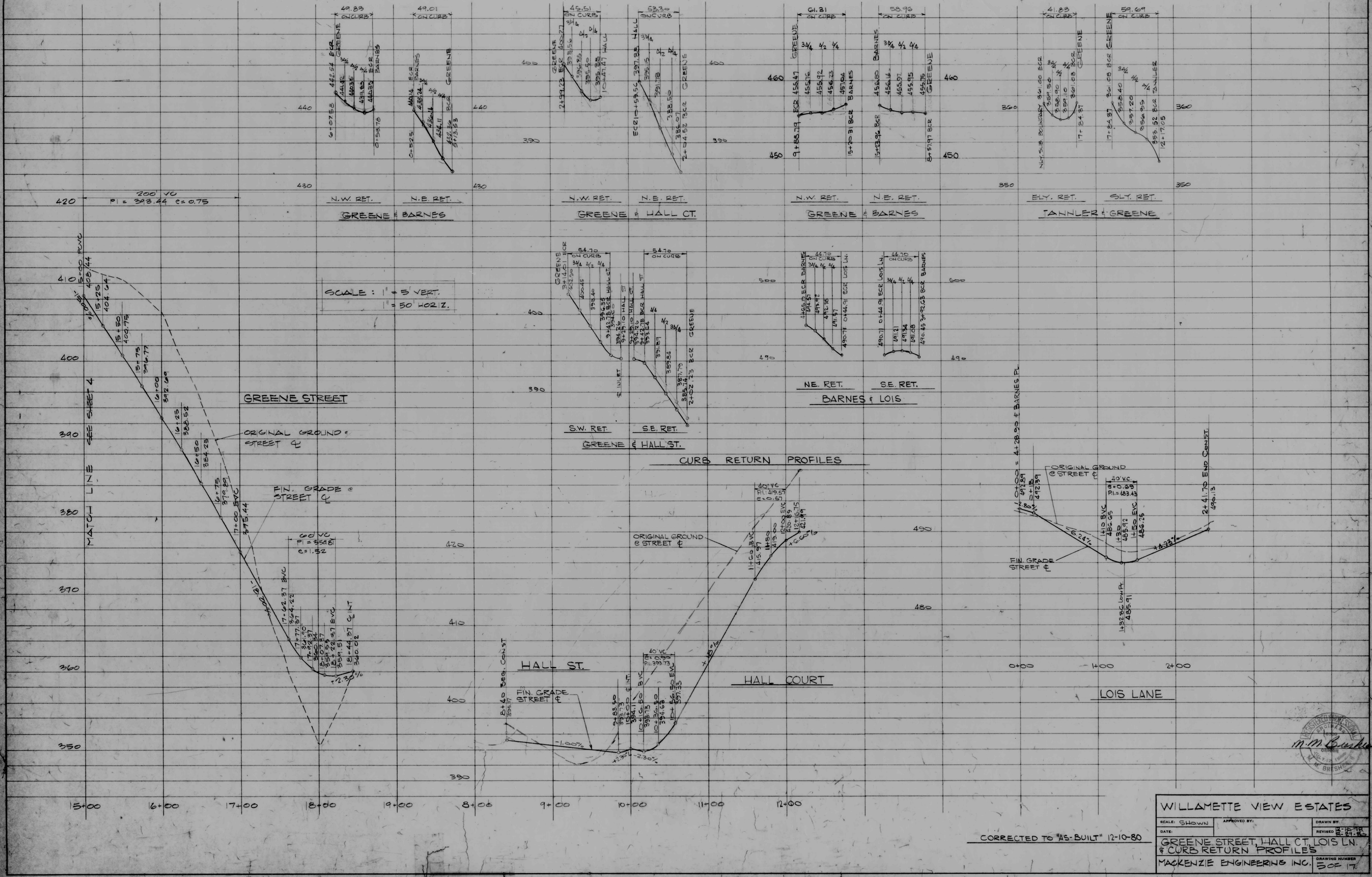

N.W. RET.
N.E. RET.
GREENE & BARNES
N.W. RET.
N.E. RET.
GREENE & HALL CT.
N.W. RET.
N.E. RET.
GREENE & BARNES
ELY. RET.
SLY. RET.
TANNLER & GREENE
S.W. RET.
S.E. RET.
GREENE & HALL ST.
NE. RET.
S.E. RET.
BARNES & LOIS
SCALE: 1" = 5' VERT.
1" = 50' HORIZ.
GREENE STREET
ORIGINAL GROUND @ STREET ℄
FIN. GRADE @ STREET ℄
MATCH LINE
SEE SHEET 4
CURB RETURN PROFILES
HALL ST.
HALL COURT
ORIGINAL GROUND @ STREET ℄
FIN. GRADE STREET ℄
LOIS LANE
ORIGINAL GROUND @ STREET ℄
FIN. GRADE STREET ℄
CORRECTED TO "AS-BUILT" 12-10-80
WILLAMETTE VIEW ESTATES
SCALE: SHOWN
DATE:
APPROVED BY:
DRAWN BY:
REVISED 12-15-78 12-21-80
GREENE STREET, HALL CT. LOIS LN. & CURB RETURN PROFILES
MACKENZIE ENGINEERING INC.
DRAWING NUMBER 5 OF 17

SCALE: 1" = 5' VERT.
1" = 50' HORIZ.

100' VC
P.I. = 494.70 e = 0.74

200' VC
P.I. = 498.40 e = 2.43

50' VC
P.I. = 488.31
e = 0.49

100' VC
P.I. = 483.60 e = 1.27

200' VC
P.I. = 466.53 e = 3.88

100' V.C.
P.I. = 464.21
e = 0.88

50' VC
P.I. = 455.39
e = 0.61

40' VC
P.I. = 431.25
e = 0.89

4+00 BVC 491.00
4+25 492.67
4+50 EVC 494.34
4+75 494.89
5+00 EVC 495.44
+1.48%
6+00 BVC 496.92
6+25 497.4
6+50 497.05
6+75 496.06
7+00 493.98
7+25 494.98
7+50 493.68
7+75 492.08
8+00 EVC 490.18
-10.0%
8+25 487.64
8+50 EVC 484.13
8+65 BVC 482.53
9+10 476.50
9+38 472.71
9+60 470.14
9+65 469.58
10+10 467.25
10+45 466.40
10+60 466.03
-0.50%
13+75 BVC 464.46
14+00 463.72
14+25 463.33
14+50 462.11
14+75 EVC 460.45
15+27.13 BVC 456.63
15+42.13 456.80
15+63.63 456.34
-7.53%
+2.99%
+7.40%
-7.575%
+2.30%

0+00 = ℄ GREENE ST.
0+36.13 SS M.H. #3-6 SEE SHEET 4
0+36.13 435.13
0+50 BVC 437.75
0+54.50 EVC 440.24
1+00 442.33
1+25 485.13
1+50 EVC 487.80
1+75 488.85
2+00 482.33
TOP M.H. 438.17
TOP M.H. 475.45
4+50 BVC 474.81
SS M.H. #3-4
TOP M.H. 491.36
SS M.H. #3-5
TOP M.H. 491.36
SEE SHEET 3
492.89
SS M.H. #3-3
SEE SHEET 4

221 LF 12" C.S.S.P.
S = 0.1824

154 LF 12" C.S.S.P.
S = 0.0654

112 LF 12" C.S.S.P.
S = 0.01

152 LF 12" C.S.S.P.
S = 0.01

F.N. GRADE @ ℄

ORIGINAL GROUND @ STREET ℄

S.S.M.H. # 3-4 S.S. STA. 8+11
I.E. 470.60 12" C.S.S.P. OUT
I.E. 470.78 12" C.S.S.P. IN.
I.E. (LAT) 471.00 IN

S.S.M.H. # 3-5 S.S. STA 9+65
I.E. 480.76 12" C.S.S.P. OUT
I.E. (LAT) 480.96

S.S. STA 9+95
℄ INLET @ 54/8
I.E. 12" C.S.S.P. 461.08

S.S.M.H. # 1-6
S.S. STA 8+83
I.E. 12" CSSP LAT IN (N.) 459.96
I.E. 12" C.S.S.P. LAT IN (E.) 463.37
I.E. 12" C.S.S.P. OUT (S.) 459.76

S.S.M.H. # 1-5
SEE SHEET 4 A

I.E. IN 430.20

(SEE SHEET # 4)

STORM SEWER LINE "3"

STORM SEWER LINE "1"

CORRECTED TO "AS-BUILT" 12-9-80

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00

500 490 480 470 460 450 440 430

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 12, 1966
M. M. BRESHEARS

M. M. Bresheers

WILLAMETTE VIEW ESTATES

| SCALE: | APPROVED BY: | DRAWN BY |
|---|---|---|
| DATE: | | REVISED 6-25-79, 7-16-79, 9-24-80 |

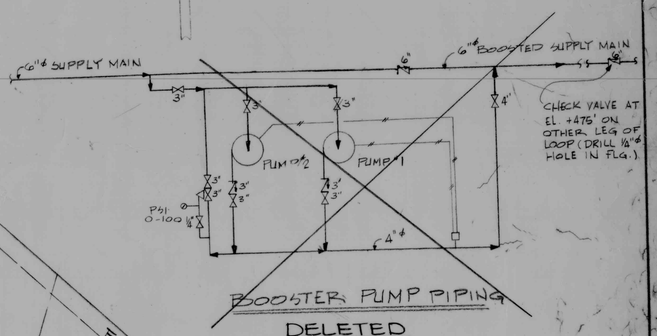
BARNES CIRCLE PROFILE

MACKENZIE ENGINEERING INC. DRAWING NUMBER 6 OF 17

84238 PRINTED ON NO. 1000H CLEARPRINT

NOTE: TO BE
Ⓐ - INDICATES LOTS SERVICED BY BOOSTER PUMP ON THE LIST.

SCALE: N 1" = 50'



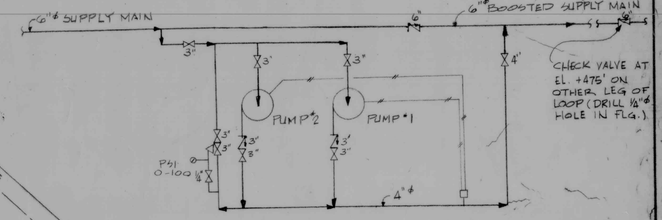

BOOSTER PUMP PIPING
DELETED

CORRECTED TO "AS BUILT" 12-11-80

| | |
|---|---|
| WILLAMETTE VIEW ESTATES | |
| SCALE: AS SHOWN | APPROVED BY: |
| DRAWN BY | |
| DATE: | REVISED 1-30-79 5/26/80 |
| SANITARY SEWER & WATER | |
| MACKENZIE ENGINEERING INC. | DRAWING NUMBER 7 OF 17 |

NOTE:
Ⓐ - INDICATES LOTS SERVICED BY BOOSTER PUMPS

SCALE: N 1" = 50'

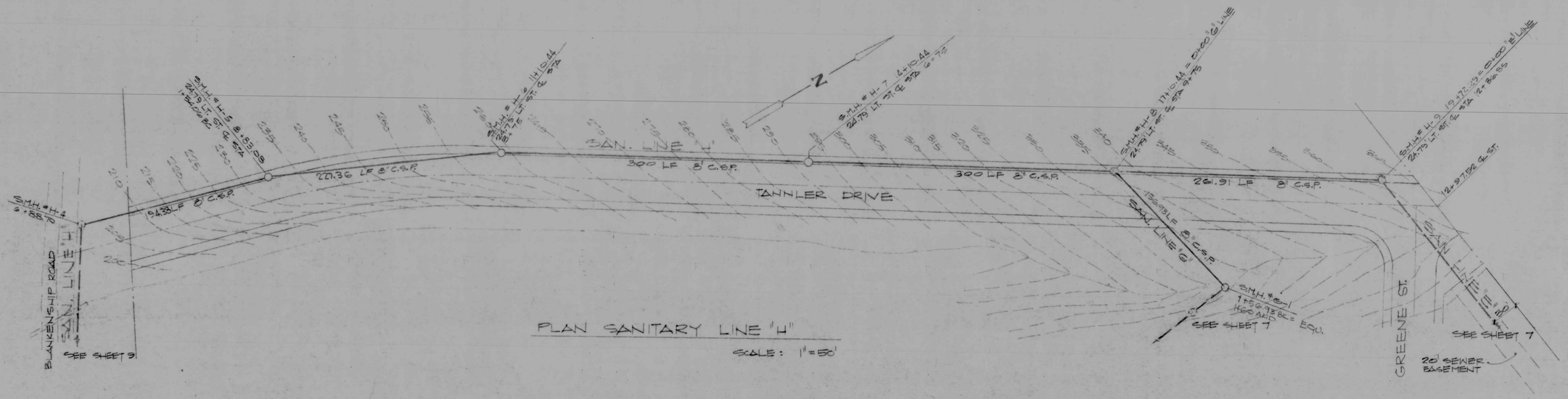



BOOSTER PUMP PIPING

CORRECTED TO "AS BUILT" 12-11-80

WILLAMETTE VIEW ESTATES

| | | |
|---|---|---|
| SCALE: AS SHOWN | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED 9-30-79, 5/26/80 |
| SANITARY SEWER & WATER | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 10 OF 17 |




PLAN SANITARY LINE "H"

SCALE: 1" = 50'

CORRECTED TO "AS-BUILT" 12-11-80

REGISTERED PROFESSIONAL ENGINEER 6309 OREGON JULY 12, 1968 M. M. BRESHEARS

M. M. Breshears

| | | |
|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED |
| SANITARY SEWER | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 8 OF 17 |

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SEE SHEET 8

SAN. LINE "H"

TANNER DRIVE

O.S.H. R/W 872+75-R
5/8" I.P.F.

198.3 DITCH
200.62 EP
200.96 EP

208.4 R/W (P)

S.M.H. # H-4
6+88.70

BLANKENSHIP ROAD

EDGE PVT.

192.1 DITCH

208.1 R/W (P)

210.0 R/W (P)

214.17 LF 8" C.S.P.

DITCH

24" CMP

186.7 DITCH
189.49 EP

F.L.

182.6 DITCH
184.82 EP

S.M.H. # H-3
4+74.53

199.53 LF 8" C.S.P.

SAN. LINE "H"

180.76 EP

5/8" I.R.F.
O.S.H. R/W
8+02.00 S.R.

R/W

R.R.S.

S.M.H. # H-2
2+31.26 BACK
0+79 AHEAD "J" LINE
0+85

177.0 DITCH

213.32 LF 8" C.S.P.

SAN. LINE "J"

SALOMO

179.87 EP

182.9 DITCH

186.05 EP

211.2 R/W (P)

5/8" I.R.F.
O.S.H. R/W
8+59+00 S.R.

SAN. LINE "H"

152.24 LF 8" C.S.P.

S.M.H. # H-1
0+79.52

S.M.H. # J-1
2+18.32

MATCH LINE
SEE THIS SHEET BELOW

ROAD

4 C.M.P. EXISTING APPROX. LOCATION

EXISTING 4 C.M.P.
TG. 162.77
I.E. 160.33

RENDER CO. COMPUTED I.E. 159.11

0+00 "H" LINE
END EXISTING 8" C.S.P.

S.S.M.H. RIM 168.39
I.E. 159.19
I.E. 14" CMP N: 159.49

168.79 E. PVT.
164.68 E. PVT.
160.66 E. PVT.
158.27 EP
152.43 E. PVT.
151.71 E.S.S.M.H.

FWY. RAMP

FWY. RAMP

REMOVE 200 LF 8" C.S.P. FROM STA 2+00 TO 0+00

273.02 LF 8" C.S.P.

(2+00) EXIST'G S.M.H.
151.23 RIM
145.11 I.E.
146.20 I.E. IN.

151.71 E.S.S.M.H.

SEE SHEET 7

SEE SHEET 7

SAN. LINE "A"

GREENE ST.

SAN. LINE "J"

S.M.H. # J-9
20+24.58
= 0+00 "A" LINE
= 0+00 "B" LINE

73.24 8" C.S.P.

S.M.H. # J-8
19+50.94

346.2 DITCH

348.88 EDGE PVT

348.76 EP

5/8" I.R.F.
O.S.H. R/W
30 844+08.90 PC

349.4 R/W TOP SL. (R)

370.2 R/W (R) TOP SL.

388.3 DITCH

388.80 EP

289.03 LF 8" C.S.P.

335.9 R/W TOP SL. (R)

S.M.H. # J-7
16+51.91

825.0 DITCH

826.90 EP

328.3 R/W TOP SL. (R)

324.5 R/W (R)

96" I.R.F.
O.S.H. R/W
SR-847+16.93 P.T.

316.0 R/W (P)

302.7 R/W (R)

FENCE

5/8" I.R.F.
O.S.H. R/W
SR-850+00

S.M.H. # J-6
14+32.60

311.9 DITCH

314.35 P.O.C.

239.4 DITCH

301.31 EP (EC)

303.41 EP

298.9 DITCH

S.M.H. # J-5
11+14.79

271.9 DITCH

261.83 LF 8" C.S.P.

291.20 EP

281.3 EP

ROAD

SALOMO

270.37 EP

260.84 EP

260.70 EP

262.4 R/W SL. BK. (P)

265.5 R/W (P)

258.0 DITCH

263.50 LF 8" C.S.P.

S.M.H. # J-4
9+08.17

247.8 DITCH

243.15 END PIPE

241.01 END PIPE

260.17 EP

5/8" I.R.F.
O.S.H. R/W
8+57+00 S.R.

5/8" I.R.F.
O.S.H. R/W
SR 854+93.91 PC

254.0 R/W (P)

247.7 R/W (P)

221.2 R/W (P)

211.2 R/W (P)

MATCH LINE
SEE THIS SHEET ABOVE

R/W

S.M.H. # J-3
6+34.59

DITCH F.L.

SAN. LINE "J"

270.58 LF 8" C.S.P.

182.5 DITCH

194.0 DITCH

204.1 DITCH

216.2 DITCH

221.37 EP (EC)

227.17 EP (EC)

198.25 EP

198.6 EP

197.10 EP

223.99 LF 8" C.S.P.

197.28 LF 8" C.S.P.

S.M.H. # J-1
0+00

S.M.H. # J-2
2+31.31

CORRECTED TO "AS-BUILT" 12-11-80

WILLAMETTE VIEW ESTATES

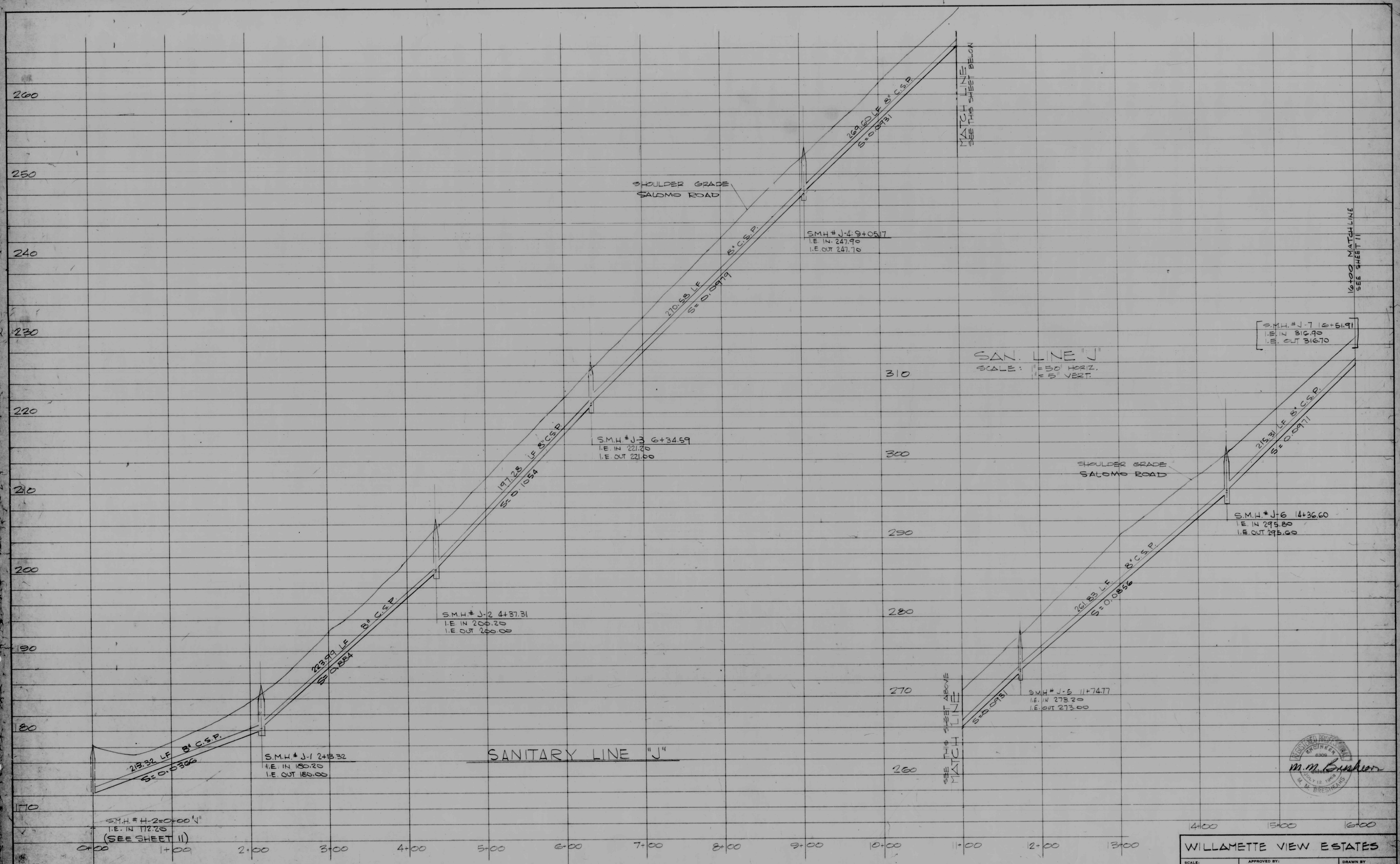
| SCALE: | APPROVED BY: | DRAWN BY |
|---|---|---|
| DATE: | | REVISED 6-12-79 |

OFF-SITE SANITARY SEWER

MACKENZIE ENGINEERING INC. DRAWING NUMBER 9 OF 17

78061

24X36 PRINTED ON NO. 1000H CLEARPRINT

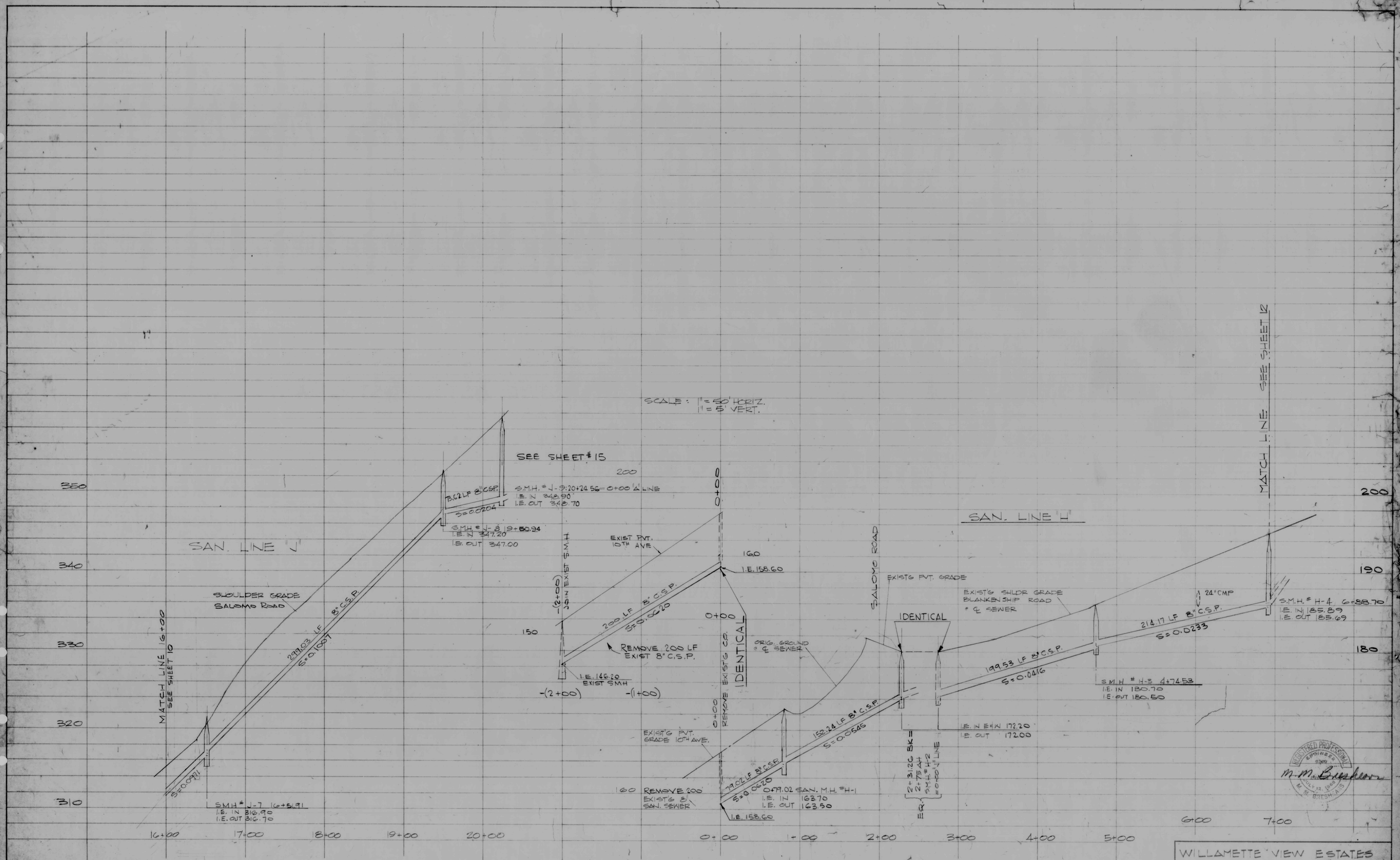



CORRECTED TO "AS-BUILT" 12-12-80

| WILLAMETTE VIEW ESTATES | | |
|---|---|---|
| SCALE: | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED |
| SANITARY SEWER PROFILE | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 10 OF 17 |

M. M. Breshears

78061




CORRECTED TO "AS-BUILT" 12-12-80

| | | |
|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED 6-12-79 |
| SANITARY SEWER PROFILE | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 11 OF 17 |

78061

# SAN. LINE "H"

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

MATCH LINE SEE THIS SHEET BELOW

ORIG. GRADE

TOP S.M.H. 247.65

300 LF 8" C.S.P. S = 0.1320

S.M.H. # H-6 11+10.44
I.E. IN 241.50
I.E. OUT 241.30

FIN. STREET GRADE & SEWER ℄

2273.6 LF 8" C.S.P. S = 0.1262

TOP S.M.H. 218.39

S.M.H. # H-5 8+83.08
I.E. IN 212.60
I.E. OUT 212.40

MATCH LINE SEE SHEET 11

943.8 LF 8" C.S.P. S = 0.1364

S.M.H. # H-4 6+88.70
I.E. IN 185.89

ORIG. GRADE

TOP S.M.H. 335.71

26.85 LF 8" C.S.P. S = 0.1109

TOP S.M.H. 320.68

S.M.H. # H-8 17+10.44 = 0+0 'G' LINE
I.E. IN 320.29 N&E
I.E. OUT 320.49 S

FIN. GRADE & SEWER ℄

MATCH LINE SEE THIS SHEET ABOVE

300 LF 8" C.S.P. S = 0.1308

TOP S.M.H. 287.5

S.M.H. # 7 14+10.44
I.E. IN 281.30
I.E. OUT 281.10

S.M.H. # H-9 19+72.39 = 0+0 'E' LINE
I.E. IN 349.72 E
I.E. OUT 349.52

TANNLER DRIVE

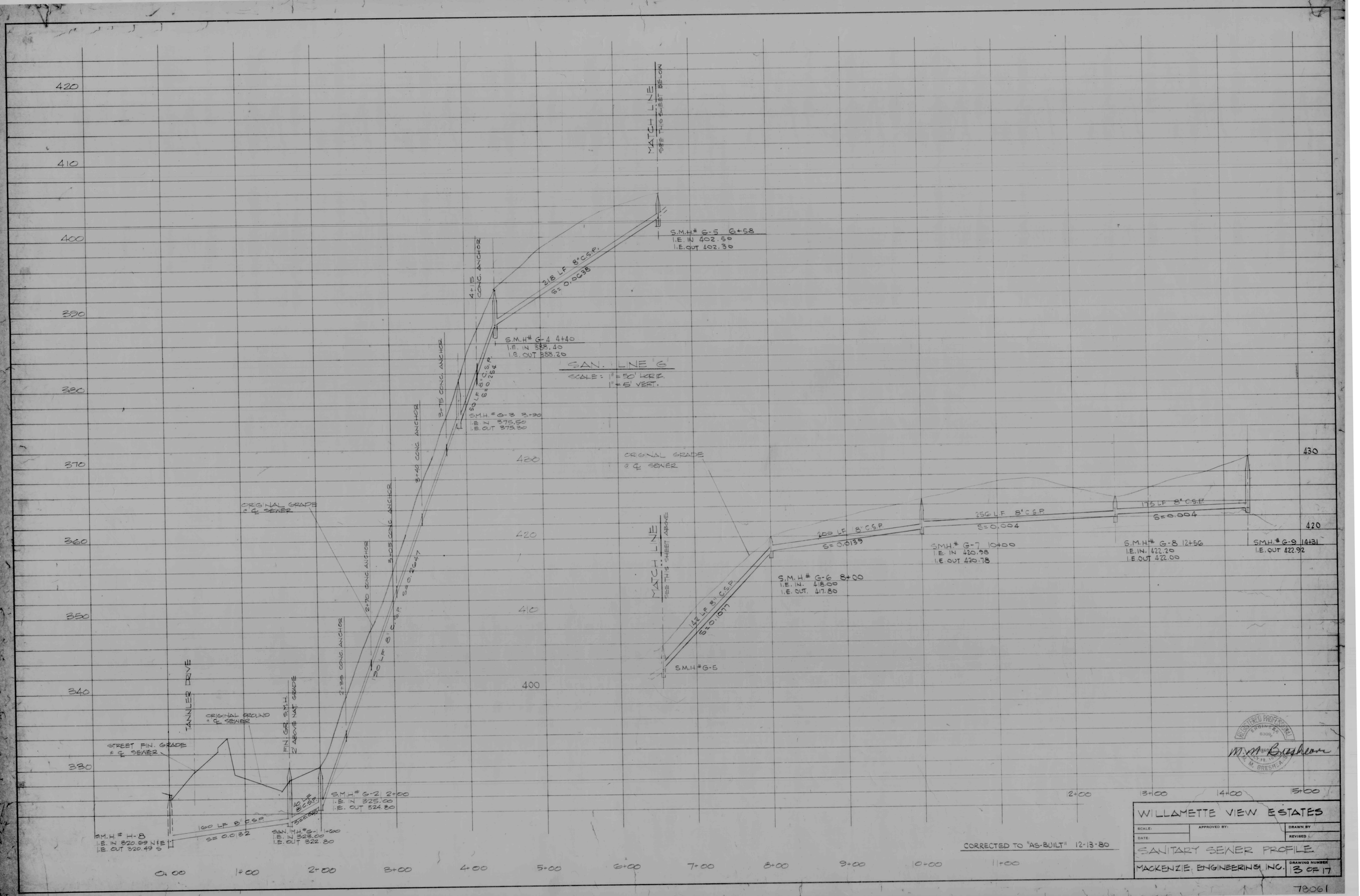
CORRECTED TO "AS-BUILT 12-12-80

REGISTERED PROFESSIONAL ENGINEER 3209 JULY 12, 1968 M. M. BRESHEARS

M. M. Breshears

| | | |
|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: | APPROVED BY: | DRAWN BY: |
| DATE: | | REVISED |
| SANITARY SEWER PROFILE | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 12 OF 17 |

78061




REGISTERED PROFESSIONAL ENGINEER 6305 OREGON JULY 12, 1974 M. M. BRESHEARS

M. M. Breshears

WILLAMETTE VIEW ESTATES

| SCALE: | APPROVED BY: | DRAWN BY |
|---|---|---|
| DATE: | | REVISED |

SANITARY SEWER PROFILE

MACKENZIE ENGINEERING INC. | DRAWING NUMBER 13 OF 17

78061

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SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

MATCH LINE SEE BELOW

S.M.H. # E-5 7+39.1
I.E. IN 449.80
I.E. OUT 449.60

168.3 LF 8" C.S.P.
S=0.1153

S.M.H. # E-4-A 5+708
I.E. IN 430.20
I.E. OUT 430.05

44.4 LF 8" C.S.P.
S=0.0970

123.14 LF 8" C.S.P.
S=0.0041

S.M.H. # E-4 4+20.4
I.E. IN 416.00
I.E. OUT 415.80

S.M.H. # E-3 3+03.26
I.E. IN 415.30
I.E. OUT 415.10

S.M.H. # E-10 17+30
I.E. 489.40

ORIG. GRADE

245.9 LF 8" C.S.P.
S=0.162

231 LF 8" C.S.P.
S=0.0047

S.M.H. # E-9 14+83.1
I.E. IN 460.70
I.E. OUT 460.50

S.M.H. # E-8 12+52.1 = 0-00 F LINE
I.E. IN 459.42 E+S
I.E. OUT 459.22 W

FIN. STREET GRADE
& SEWER C/L

166.1 LF 8" C.S.P.
S=0.0041

S.M.H. # E-7 10+86
I.E. IN 458.54
I.E. OUT 458.34

155 LF 8" C.S.P.
S=0.0044

S.M.H. # E-6 9+31
I.E. IN 457.72
I.E. OUT 457.52

ORIGINAL GRADE

MATCH LINE SEE ABOVE

101.9 LF 8" C.S.P.
S=0.0462

S.M.H. # E-5 7-39.1
I.E. IN 449.80
I.E. OUT 449.60

SAN. LINE E

ORIGINAL GRADE

123.26 LF 8" C.S.P. S=0.3644

2+25 CONC. ANCHOR

2+50 CONC. ANCHOR

2+75 CONC. ANCHOR

2+00 CONC. ANCHOR

62 LF 8" C.S.P. S=0.2582

142.6 LF 8" C.S.P. S=0.195

S.M.H. # E-2 1+74
I.E. IN 368.00
I.E. OUT 367.80

S.M.H. # E-1 1+12
I.E. IN 352.10
I.E. OUT 351.90

S.M.H. # H-9
I.E. IN 349.72

TANNLER DRIVE

FIN. STREET GRADE
& SEWER C/L

8" C.S.P.

10' W.M.

112 LF 8" C.S.P.
S=0.0195

CORRECTED TO "AS-BUILT" 12-13-80

REGISTERED PROFESSIONAL ENGINEER
6308
M. M. BRESHEARS
M. M. Breshears

WILLAMETTE VIEW ESTATES

| SCALE: | APPROVED BY: | DRAWN BY |
|---|---|---|
| DATE: | | REVISED |

SANITARY SEWER PROFILE

MACKENZIE ENGINEERING INC. | DRAWING NUMBER 14 OF 17

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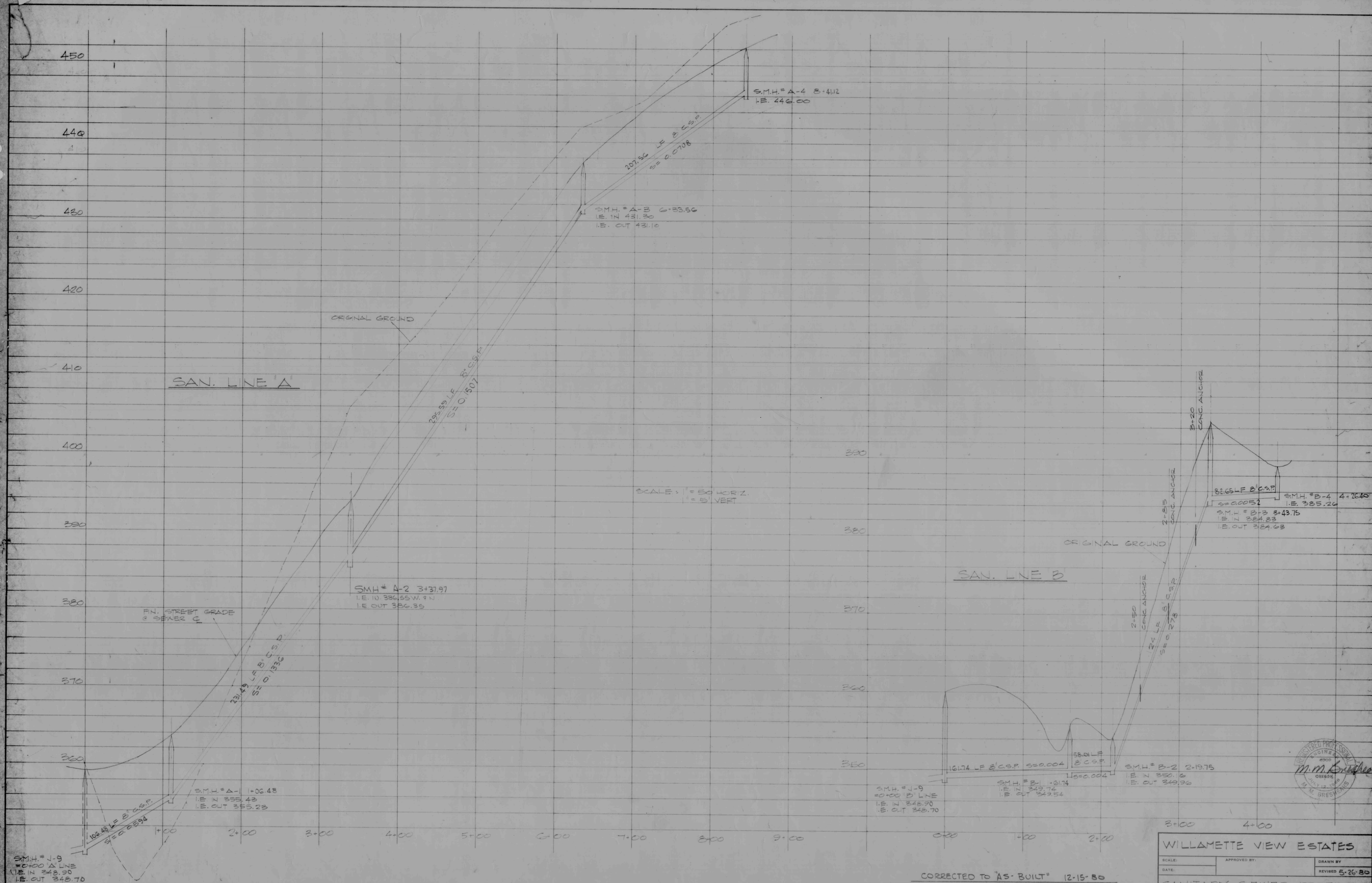


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|---|---|---|
| WILLAMETTE VIEW ESTATES | | |
| SCALE: | APPROVED BY: | DRAWN BY |
| DATE: | | REVISED 5-26-80 |
| SANITARY SEWER PROFILE | | |
| MACKENZIE ENGINEERING INC. | | DRAWING NUMBER 15 OF 17 |

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WILLAMETTE VIEW ESTATES

| SCALE: | APPROVED BY: | DRAWN BY |
|---|---|---|
| DATE: | | REVISED 7-30-79 5-27-80 |

SANITARY SEWER PROFILE

MACKENZIE ENGINEERING INC. DRAWING NUMBER 16 OF 17

78061