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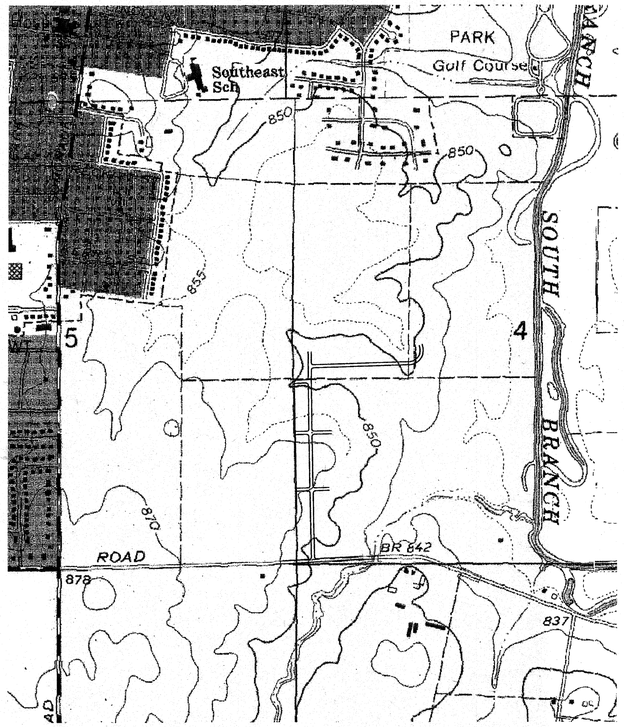
QUANTITIES

PARKSIDE ESTATES UNIT 2
IMPROVEMENT PLANS

NOVEMBER 2002



CONTACT:

J.U.L.I.E.

1–800–892–0123

PRIOR TO ANY CONSTRUCTION

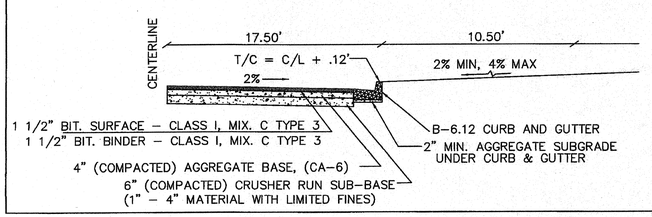
N

NOT TO SCALE

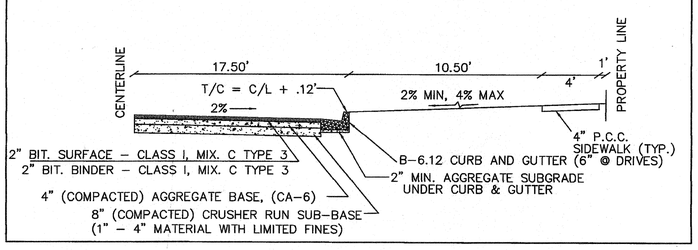
OWNER/DEVELOPER

MILAN KRPAN
726 KRPAN COURT
DEKALB, IL 60115

TYPICAL HALF SECTION 35' B/B – 66' R.O.W.



TYPICAL HALF SECTION PARKSIDE DRIVE



PLANS PREPARED BY: CES, INC., 700 W. LOCUST STREET, BELVIDERE, IL 61008 (815)-547-8435 FAX: (815)-544-0421

PARKSIDE ESTATES
UNIT 2
CITY OF SYCAMORE
DEKALB CO., ILLINOIS

DEVELOPER:
MILAN KRPAN

AGENCY APPROVAL
(N/A = NOT APPLICABLE)
(BLANK = NOT APPROVED)

PUBLIC WORKS	
ENGINEERING	
SANITARY DEPT.	
WATER DEPT.	
IEPA SANITARY	
IEPA WATER	
COUNTY	
TOWNSHIP	N/A
IDOT ACCESS	N/A
IDOT UTILITY	N/A
TOLLWAY	N/A
RAILROAD	N/A
S.W.C.D.	N/A

REVISION HISTORY

SHEETS 1–33 REVISED SANITARY PER CITY OF SYCAMORE	12/13/02
SHEETS 1–33 REVISED STORM PER CITY OF SYCAMORE	1/24/03
SHEETS 1–33 M.L. REVISED WATER PER CITY	4/2/03
SHEETS 1,2,6,9,20, 27–32 REVISED STORM SEWER AND DETENTION PONDS PER CITY	4/24/03
SHEETS 27–32 REVISED STORM SEWER AND DETENTION PONDS PER CITY	9/16/03
SHEET DESC.	DATE
SHEET DESC.	DATE
SHEET DESC.	DATE
SHEET DESC.	DATE
SHEET DESC.	DATE
SHEET DESC.	DATE
SHEET DESC.	DATE
SHEET DESC.	DATE

CIVIL ENGINEERING SERVICES
CES INC

JOB #DS0939S1

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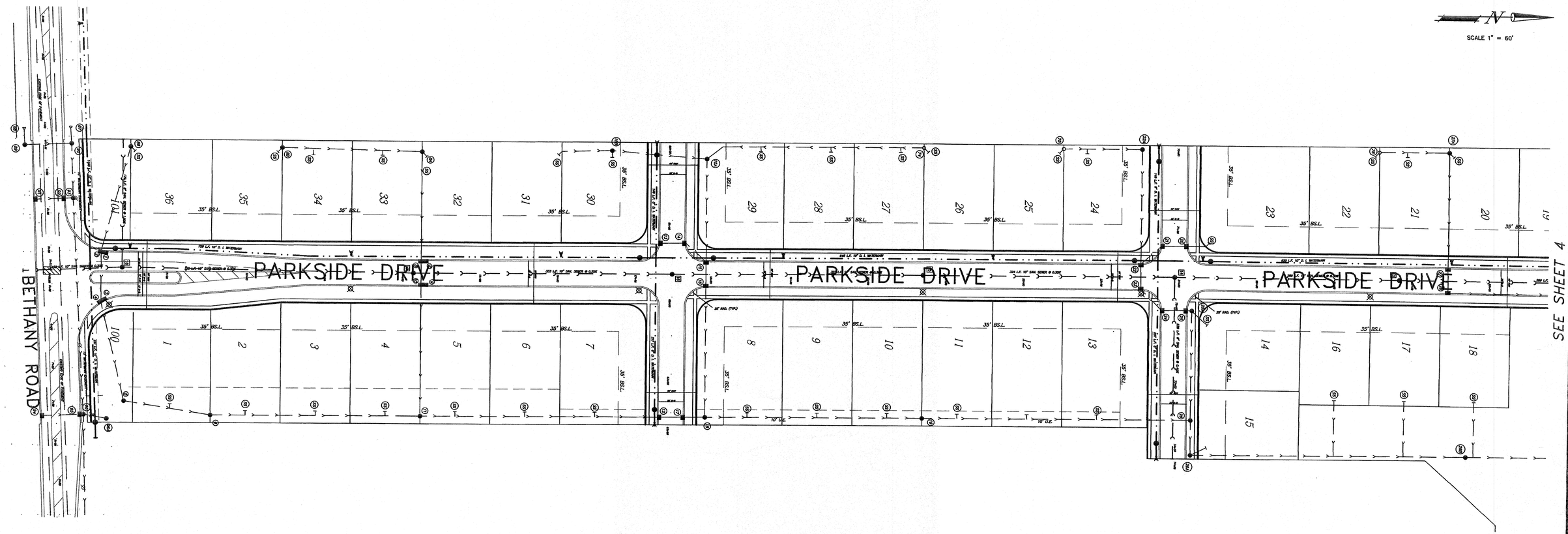
OVERALL UTILITY PLAN



9/16/03 – ML REV. PER CITY
4/2/03 – ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
11/25/02 – REV. SAN. & WATER PER CITY REVIEW

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PARKSIDE ESTATES UNIT 2

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CHECKED BY KGB	DATE 11/15/02	

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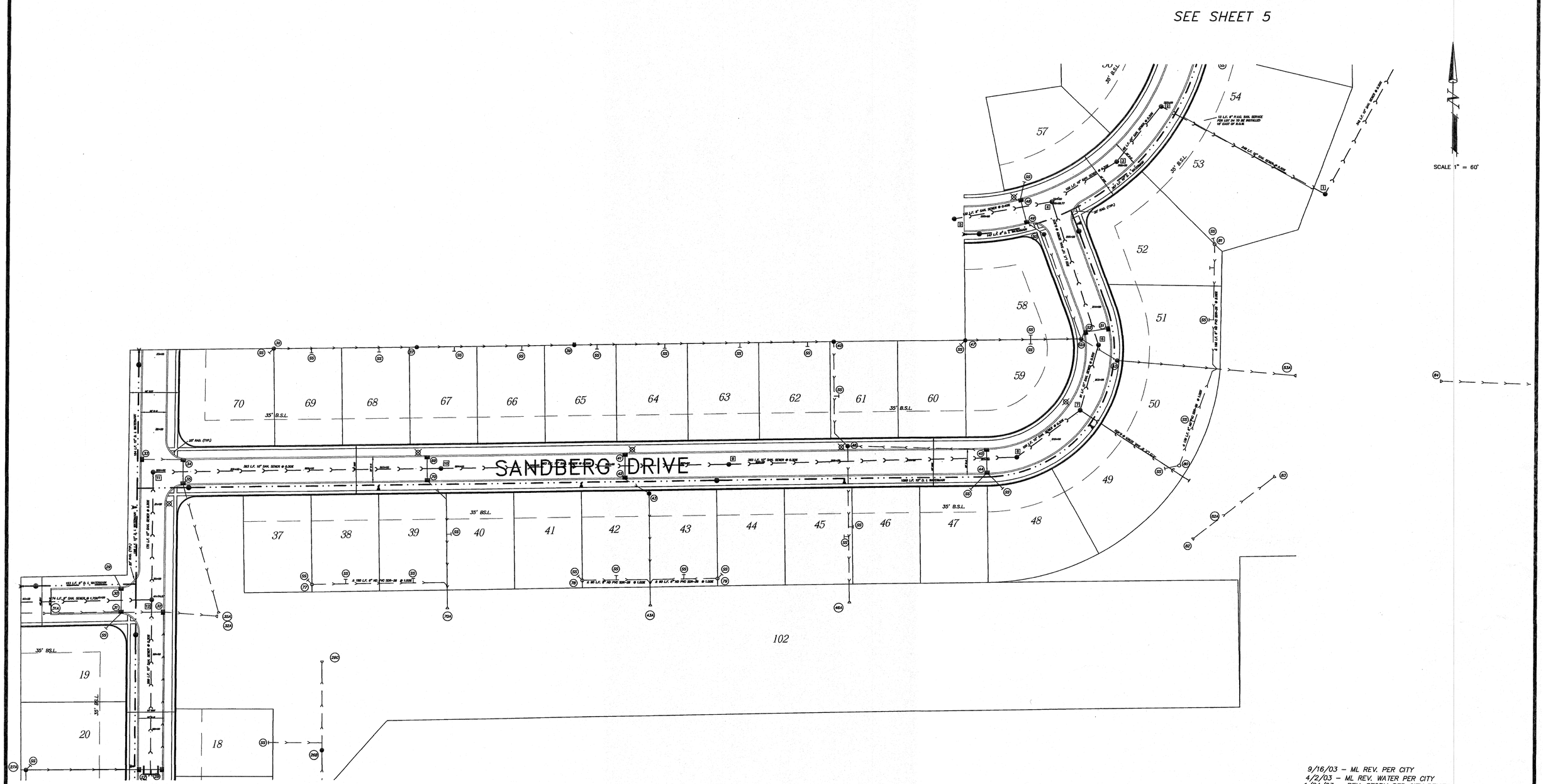
OVERALL UTILITY PLAN



9/16/03 – ML REV. PER CITY
4/2/03 – ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
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CHECKED BY KCB	DATE 11/15/02	

FILE: DS093901.DWG

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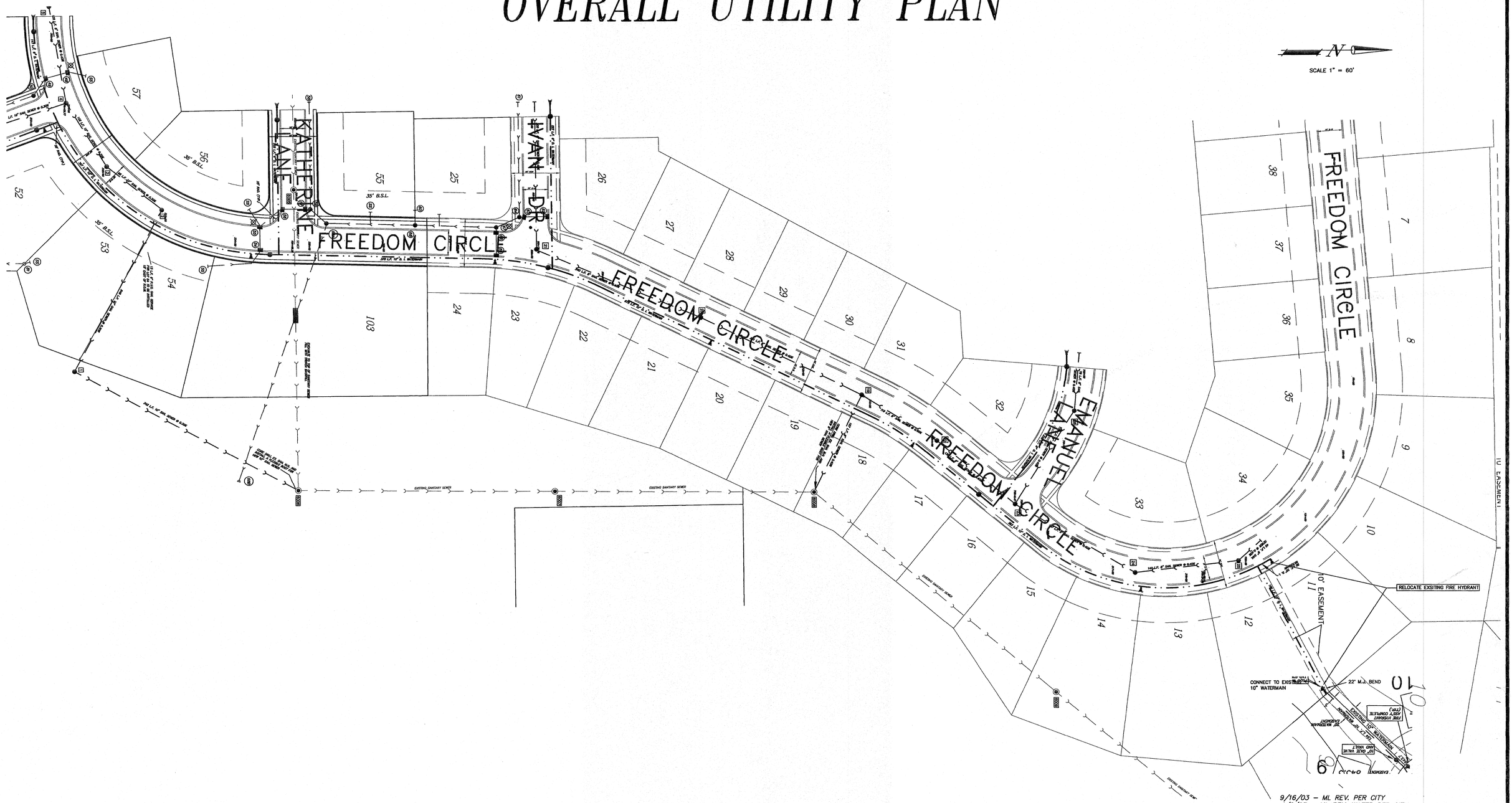
SEE SHEET 4

OVERALL UTILITY PLAN



9/16/03 – ML REV. PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
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CHECKED BY KCB	DATE 11/15/02	

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SEE SHEET 17

SCALE 1" = 20'

35' B.S.L.

STA. 10+54 – LT. FIRE HYDRANT ASS'Y. COMPLETE F/G = 849.45

STA. 10+34 – LT. 10" GATE VALVE & 5' DIA. VAULT F/G = 849.37

6" SAN. SERVICE @ 1.0% MIN SLOPE, 6' BEYOND PROPERTY LINE (TYPICAL)

STA. 13+39 – LT. FIRE HYDRANT ASS'Y. COMPLETE F/G = 851.81

15 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

REMOVE AND REPLACE IN KIND 24 SY OF BIT. CONC. PAVEMENT WITH 3" BIT. / 12" AGG BASE MIN.

10" X 10" M.J. TEE

10' MIN. (TYP.)

729 L.F. 10" D. I. WATERMAIN

3.5' (TYP.)

128 L.F. 10" SAN. SEWER @ 0.30%

375 L.F. 10" SAN. SEWER @ 0.30%

10" PVC PLUG INV. = 840.17

1" WATER SERVICE (TYPICAL)

WATER SERVICE SHUT-OFF BOX SHALL BE PLACED 5' BEHIND THE R.O.W. LINE (TYP.)

SANITARY SERVICE WITH RISER (TYP.)

241 L.F.

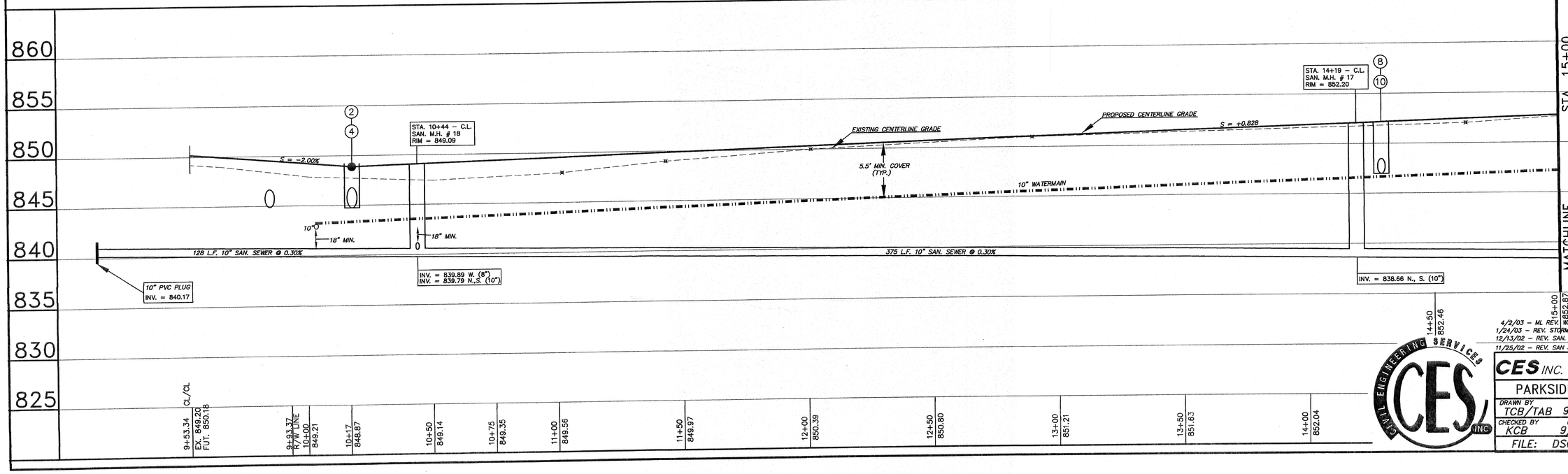
STA. 15+00

MATCHLINE

SEE SHEET 7

SEE SHEET 17

PARKSIDE DRIVE



4/2/03 – ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	6
CHECKED BY KCB	DATE 9/3/02	

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SEE SHEET 18

SCALE 1" = 20'

35' BS.L.

6" SAN. SERVICE @ 1.0% MIN SLOPE, 6' BEYOND PROPERTY LINE (TYPICAL)

STA. 16+09 – I.T. FIRE HYDRANT ASS'Y. COMPLETE F/G = 854.04

10" X 8" M.J. CROSS WITH 8" X 6" M.J. REDUCER ON EAST LEG

STA. 17+10 – I.T. 10" GATE VALVE & 5' DIA. VAULT RIM = 855.85

8" D. I. WATERMAIN

STA. 18+05 – I.T. 10" GATE VALVE & 5' DIA. VAULT RIM = 857.71

STA. 18+95 – I.T. FIRE HYDRANT ASS'Y. COMPLETE F/G = 859.66

15 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

37 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

3.5' (TYP.)

646 L.F. 10" D. I. WATERMAIN

333 L.F. 10" SAN. SEWER @ 0.30%

323 L.F. 10" SAN. SEWER @ 0.30%

35'-8-8

66' ROW

10' (MIN.)

10' MIN. (TYP.)

25' RAD. (TYP.)

SANITARY SERVICE WITH RISER (TYP.)

1" WATER SERVICE (TYPICAL)

WATER SERVICE SHUT-OFF BOX SHALL BE PLACED 5' BEHIND THE R.O.W. LINE (TYP.)

217 L.F. 6"

STA. 15+00

STA. 21+25

MATCHLINE

SEE SHEET 6

SEE SHEET 8

31 30 29 28 27 26 6 7 8 9 10 11

13 14 15 16

15+00 16+00 17+00 18+00 19+00 20+00 21+00 61+00 62+00

SEE SHEET 18

PARKSIDE DRIVE

VERTICAL CURVE
STA. 16+50 = ELEV. 854.11
e = +0.10' L = 60'

VERTICAL CURVE
STA. 19+00 = ELEV. 859.55
e = −0.07' L = 50'

VERTICAL CURVE
STA. 21+00 = ELEV. 861.55
e = −0.56' L = 200'

STA. 17+52 – C.L. SAN. M.H. # 16 RIM = 856.33

STA. 20+75 – C.L. SAN. M.H. # 15 RIM = 860.98

PROPOSED CENTERLINE GRADE

EXISTING CENTERLINE GRADE

S = +2.176%

S = +0.828

S = +1.0%

5.5' MIN. COVER (TYP.)

5.5' MIN. COVER

10" WATERMAIN

8"

18" MIN.

333 L.F. 10" SAN. SEWER @ 0.30%

323 L.F. 10" SAN. SEWER @ 0.30%

INV. = 837.66 N.,S. (10")

INV. = 836.69 N.,S. (10")

16+00	853.70
16+20	853.86
16+50	854.21
16+80	854.76
17+00	855.20
17+50	856.29
18+00	857.37
18+50	858.46
18+75	859.01
19+00	859.48
19+25	859.80
19+50	860.05
20+00	860.55
20+25	860.77
20+50	860.91
20+75	860.98
21+00	860.99
21+25	860.93

865 860 855 850 845 840 835

4/2/03 – ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
11/25/02 – REV. SAN & WATER PER CITY REVIEW

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PARKSIDE ESTATES UNIT 2

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TCB/TAB	9/3/02	7
CHECKED BY KCB	DATE 9/3/02	

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SEE SHEET 19

SCALE 1" = 20'

35' BS.L.

STA. 21+65 – L.T. FIRE HYDRANT ASS'Y. COMPLETE F/G = 860.87

6" SAN. SERVICE @ 1.0% MIN SLOPE, 6' BEYOND PROPERTY LINE (TYPICAL)

10" X 8" M.J. CROSS

STA. 23+47 – L.T. 10" GATE VALVE & 5' DIA. VAULT RIM = 858.32

STA. 24+35 – L.T. FIRE HYDRANT ASS'Y. COMPLETE F/G = 856.52

STA. 24+45 – L.T. 10" GATE VALVE & 5' DIA. VAULT RIM = 856.27

35' B-B

71+00

3.5' (TYP.)

10' (MIN.)

10' MIN. (TYP.)

36 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

15 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

620 L.F. 10" D. I. WATERMAIN

324 L.F. 10" SAN. SEWER @ 0.30%

289 L.F. 10" SAN. SEWER @ 0.30%

66' ROW

22+00 23+00 24+00 25+00 26+00 27+00

72+00

39 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

1" WATER SERVICE (TYPICAL)

WATER SERVICE SHUT-OFF BOX SHALL BE PLACED 5' BEHIND THE R.O.W. LINE (TYP.)

25' RAD. (TYP.)

SANITARY SERVICE WITH RISER (TYP.)

257 L.F. 8" D. I.

236 L.F. 8" SAN. SEWER

STA. 21+25

STA. 27+30

MATCHLINE

SEE SHEET 7

SEE SHEET 9

25 24 23 22 21 12 13 14 16 17

SEE SHEET 19

PARKSIDE DRIVE

VERTICAL CURVE
STA. 21+00 = ELEV. 861.55
e = -0.56' L = 200'

S = -1.24%

10" WATERMAIN

STA. 23+99 – C.L. SAN. M.H. # 14 RIM = 857.00

S = -2.088%

PROPOSED CENTERLINE GRADE

EXISTING CENTERLINE GRADE

5.5' MIN. COVER (TYP.)

18" MIN.

8"

VERTICAL CURVE
STA. 27+00 = ELEV. 850.71
e = +0.09' L = 60'

STA. 26+88 – C.L. SAN. M.H. # 13 RIM = 851.00

S = -0.827 %

10" WATERMAIN

324 L.F. 10" SAN. SEWER @ 0.30%

289 L.F. 10" SAN. SEWER @ 0.30%

INV. = 835.72 N., S. (10")
INV. = 836.00 E. (8")

INV. = 834.85 N., S. (10")

860 855 850 845 840 835 830 825

STA. 21+25 MATCHLINE

STA. 27+30 MATCHLINE

21+25	860.93
21+50	860.79
21+75	860.58
22+00	860.31
22+50	859.69
23+00	859.07
23+50	858.03
24+00	856.98
24+50	855.94
25+00	854.89
25+50	853.85
26+00	852.81
26+50	851.76
26+70	851.35
27+00	850.81
27+30	850.47

CIVIL ENGINEERING SERVICES CES INC

4/2/03 – ML REV. WATER PER CITY
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11/25/02 – REV. SAN & WATER PER CITY REVIEW

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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	8
CHECKED BY KCB	DATE 9/3/02	

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SEE SHEET 20

SCALE 1" = 20'

SEE SHEET 8

STA. 27+30

MATCHLINE

SANITARY SERVICE WITH RISER (TYP.)

WATER SERVICE SHUT-OFF BOX SHALL BE PLACED 5' BEHIND THE R.O.W. LINE (TYP.)

1" WATER SERVICE (TYPICAL)

STA. 27+55 – LT. FIRE HYDRANT ASS'Y. COMPLETE F/G = 850.56

STA. 29+30 – LT. 10" GATE VALVE & 5' DIA. VAULT RIM = 849.05

20 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

10" X 6" M.J. TEE

25' RAD. (TYP.)

22 L.F. OF STORM SEWER TO HAVE O-RING JOINTS

STA. 31+00 – LT. FIRE HYDRANT ASS'Y. COMPLETE F/G = 847.68

10" X 10" M.J. TEE

STA. 32+90 – LT. 10" GATE VALVE & 5' DIA. VAULT RIM = 847.93

STA. 33+10 – LT. TEMP. FIRE HYDRANT ASS'Y. COMPLETE F/G = 848.07

3.5' (TYP.)

10' MIN. (TYP.)

128 L.F. 10" D. I. WATERMAIN

184 L.F. 10" D. I. WATERMAIN

289 L.F. 10" SAN. SEWER @ 0.30%

170 L.F. 10" SAN. SEWER @ 0.30%

35' B-B

66' ROW

28+00 29+00 30+00 31+00 32+00 33+00

41+00 41+74.27 200+00

6" SAN. SERVICE @ 1.0% MIN SLOPE, 6' BEYOND PROPERTY LINE (TYPICAL)

25' RAD. (TYP.)

SEE SHEET 10

PARKSIDE DRIVE

VERTICAL CURVE

STA. 31+50 = ELEV. 847.00
e = +0.17' L = 100'

STA. 29+77 – C.L. SAN. M.H. # 12 RIM = 848.43

STA. 31+47 – C.L. SAN. M.H. # 11 RIM = 847.18

S = −0.827

S = +0.50%

PROPOSED CENTERLINE GRADE

EXISTING CENTERLINE GRADE

5.5' MIN. COVER (TYP.)

18" MIN.

6"

10"

10" WATERMAIN

289 L.F. 10" SAN. SEWER @ 0.30%

170 L.F. 10" SAN. SEWER @ 0.30%

INV. = 833.98 N., S. (10")
INV. = 834.50 W. (8")

INV. = 833.47 E., S. (10")

EDGE OF PROPOSED PAVING

855 850 845 840 835 830 825 820

27+50 850.31 | 28+00 849.89 | 28+50 849.48 | 29+00 849.07 | 29+50 848.65 | 30+00 848.24 | 30+50 847.83 | 31+00 847.41 | 31+25 847.25 | 31+50 847.17 | 31+75 847.17 | 32+00 847.25 | 32+50 847.50 | 33+00 847.75 | 33+10 847.80

4/2/03 – ML REV. WATER PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	9
CHECKED BY KCB	DATE 9/3/02	

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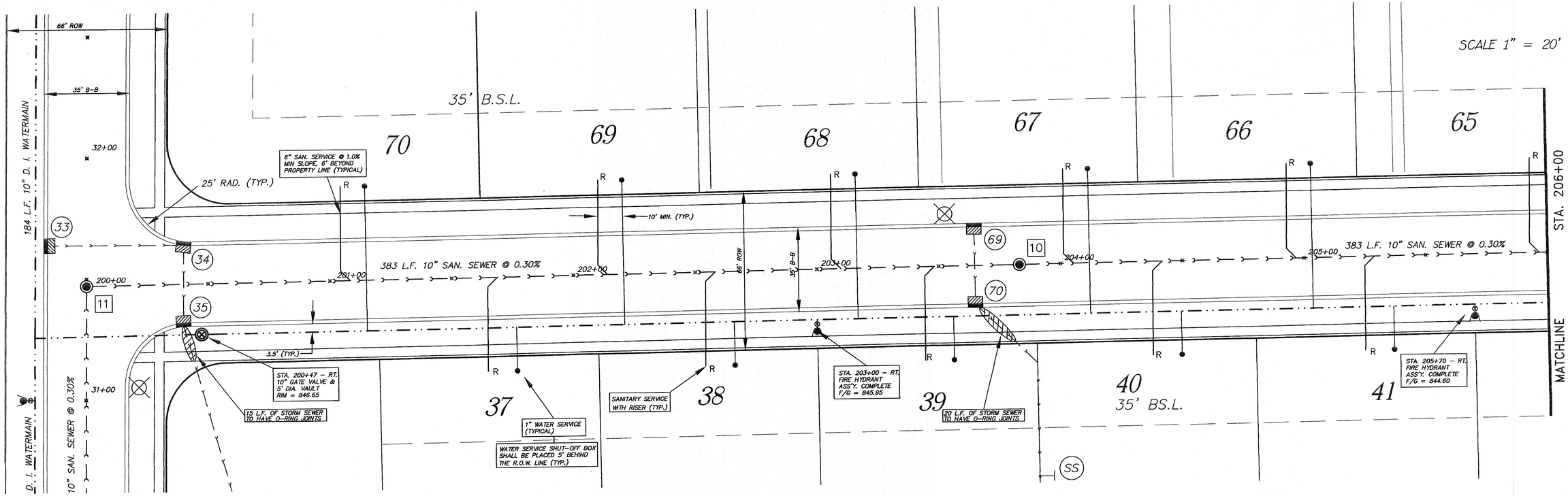
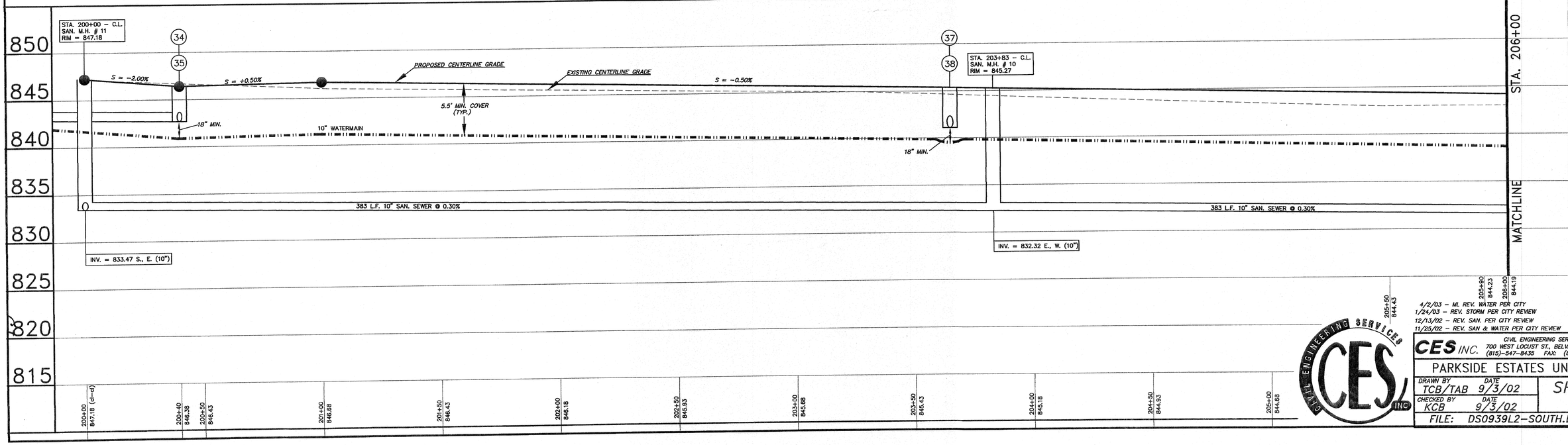
SEE SHEET 9



SEE SHEET 9

SANDBERG DRIVE



4/2/03 – ML REV. WATER PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
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CHECKED BY KCB	DATE 9/3/02	

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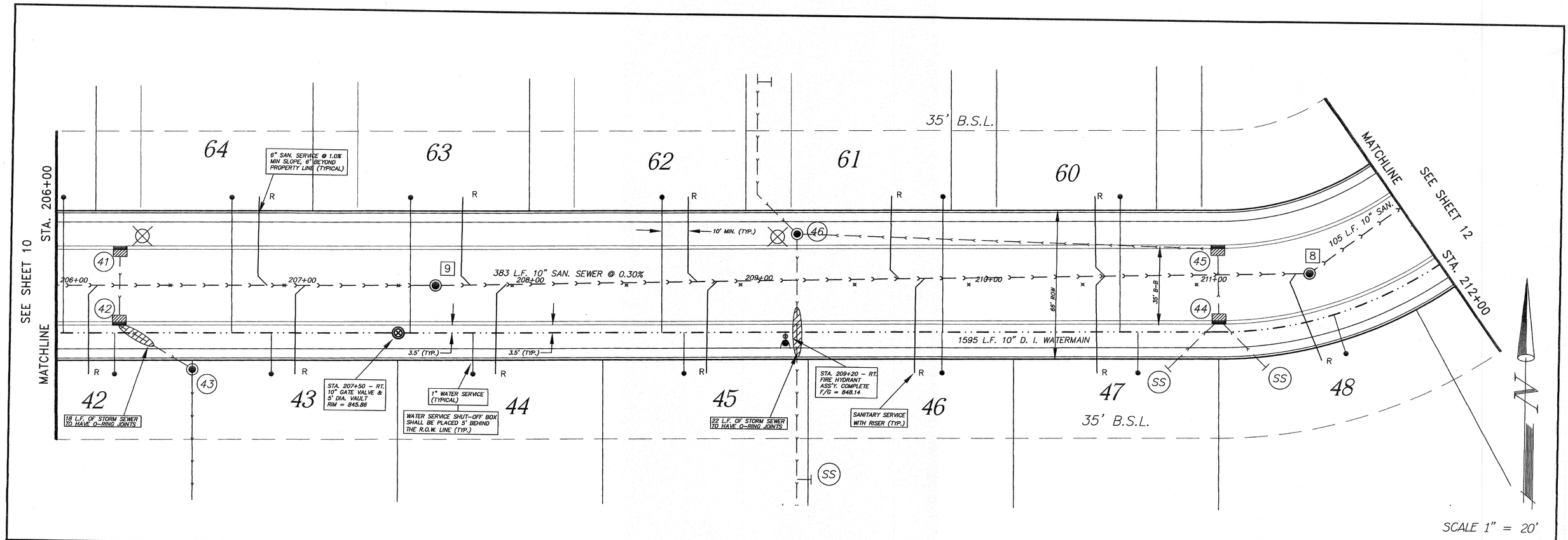
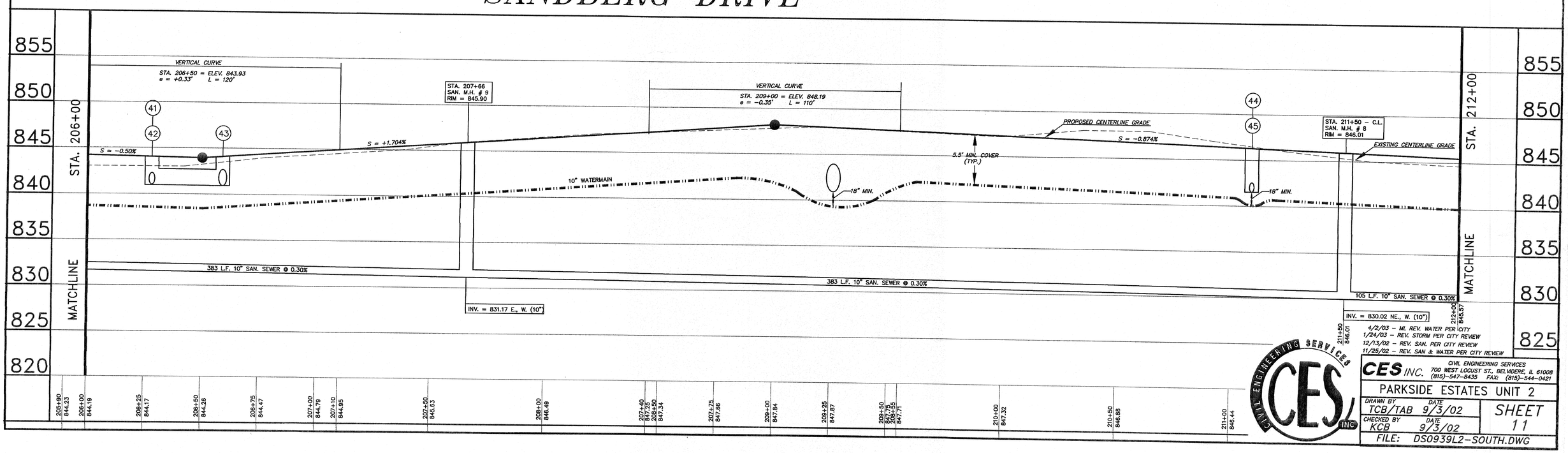


SANDBERG DRIVE



4/2/03 - ML REV. WATER PER CITY
1/24/03 - REV. STORM PER CITY REVIEW
12/13/02 - REV. SAN. PER CITY REVIEW
11/25/02 - REV. SAN & WATER PER CITY REVIEW

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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	11
CHECKED BY KCB	DATE 9/3/02	

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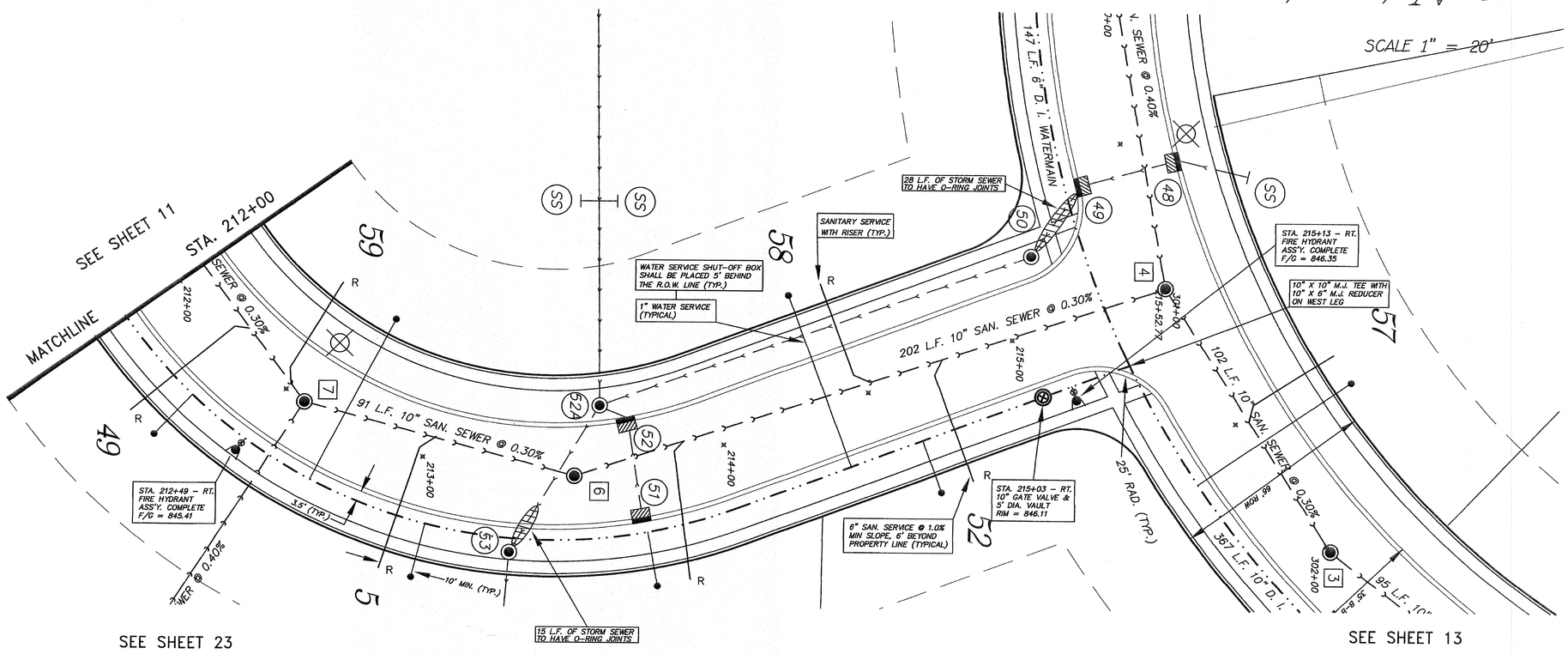
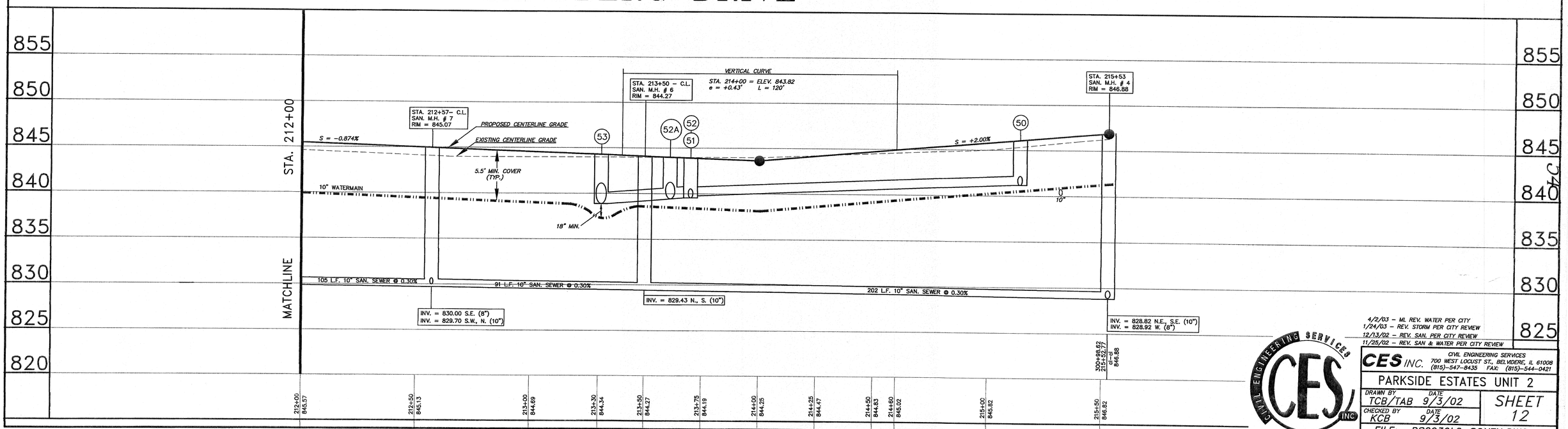


SANDBERG DRIVE



4/2/03 – ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
11/25/02 – REV. SAN & WATER PER CITY REVIEW

CES INC. CIVIL ENGINEERING SERVICES
700 WEST LOCUST ST., BELVIDERE, IL 61008
(815)-547-8435 FAX: (815)-544-0421

PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	12
CHECKED BY KCB	DATE 9/3/02	

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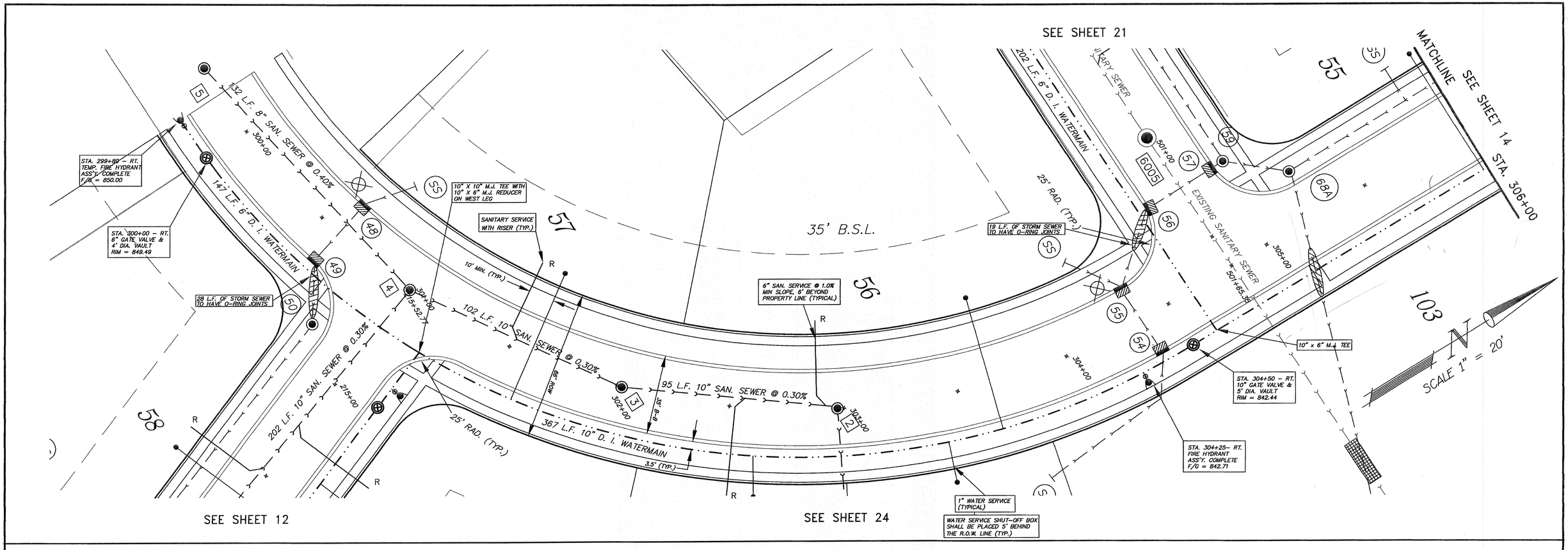
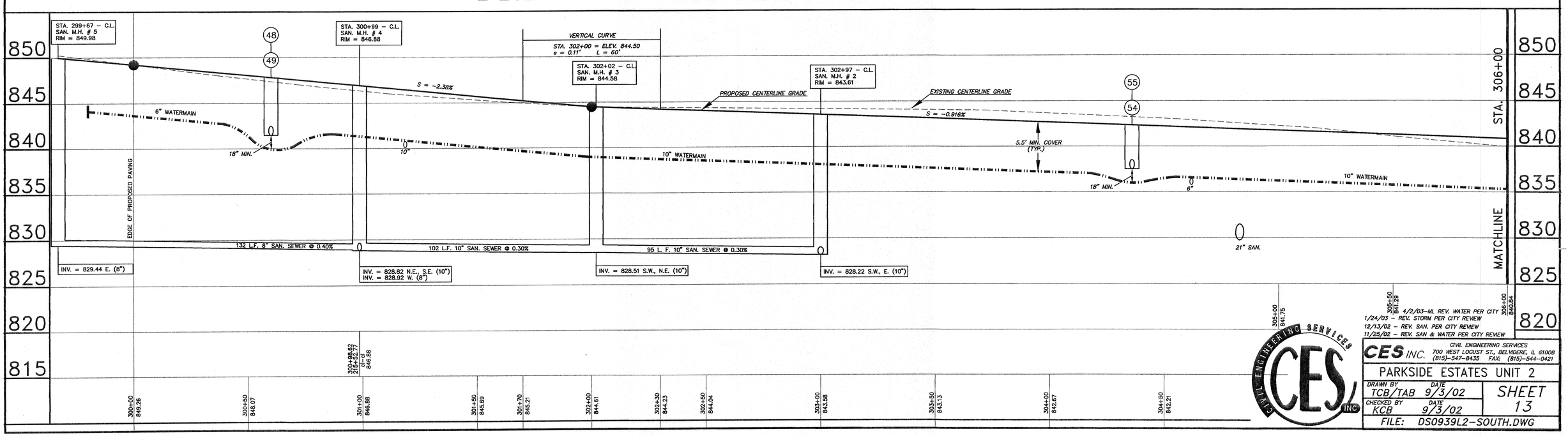


FREEDOM CIRCLE



4/2/03–ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	13
CHECKED BY KCB	DATE 9/3/02	

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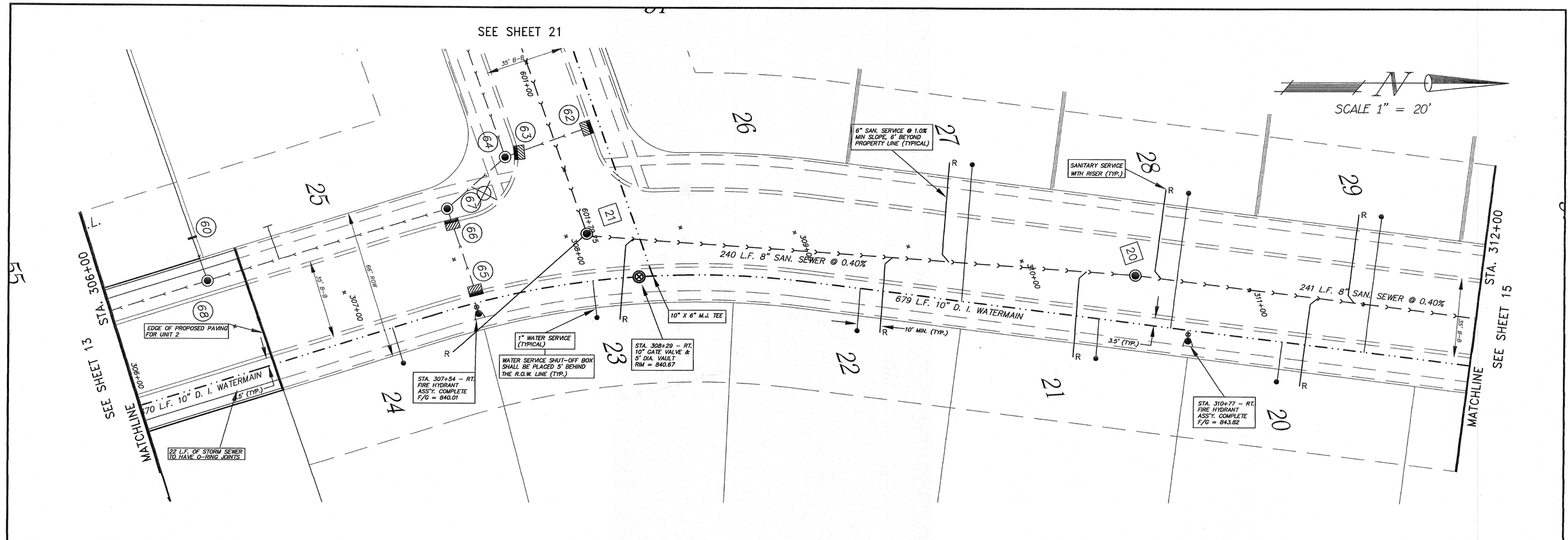

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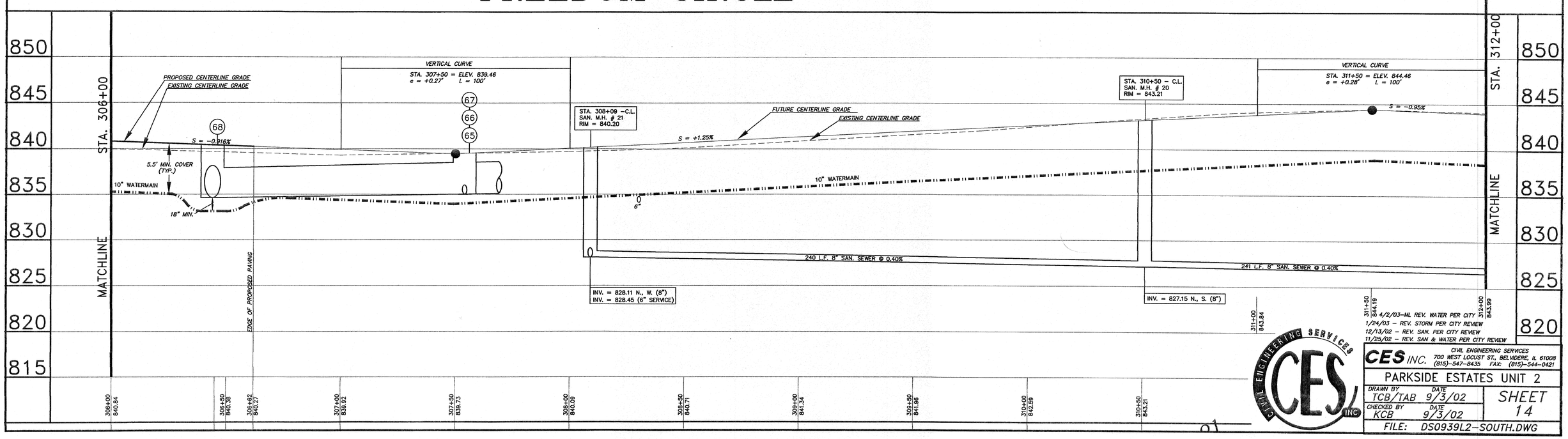

REVISIONS
4/2/03–ML REV. WATER PER CITY
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	14
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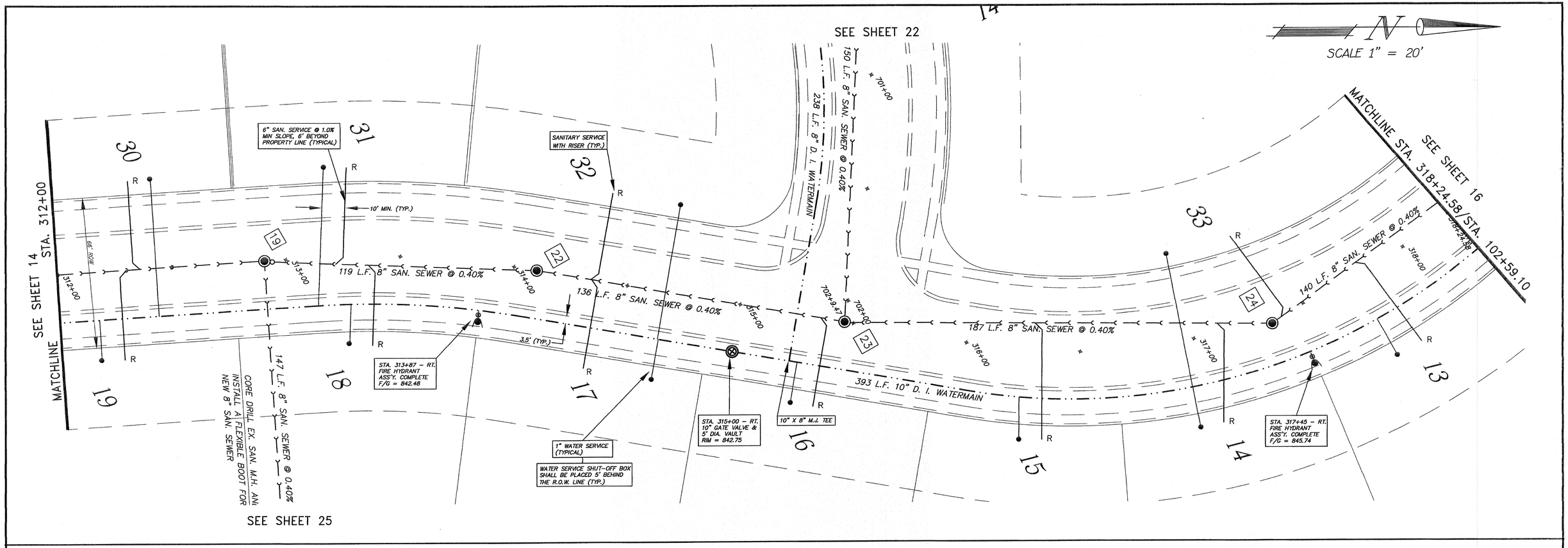

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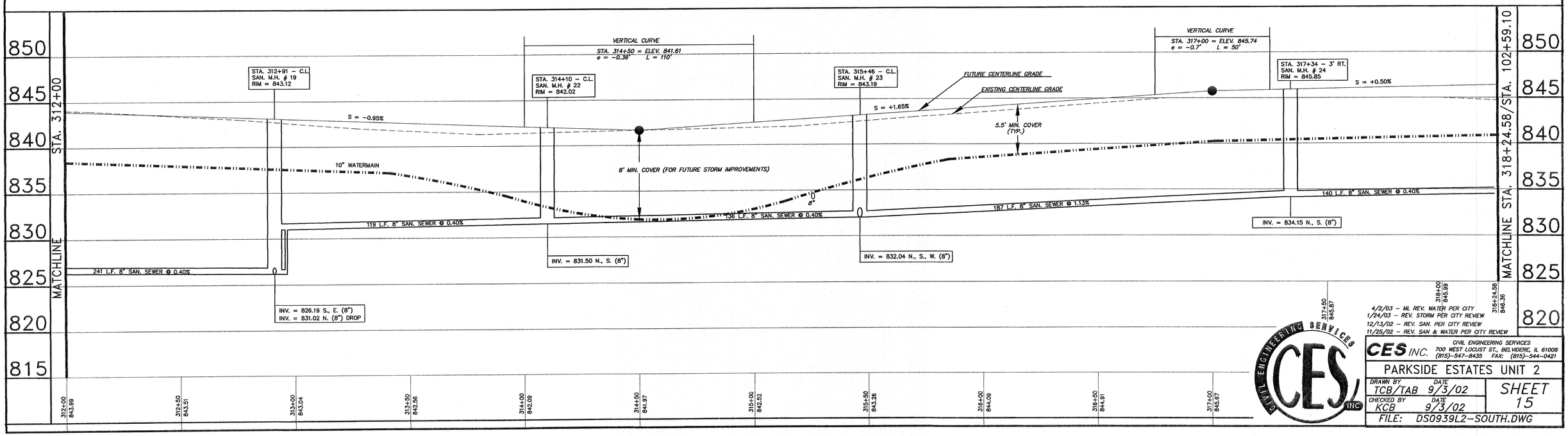

4/2/03 – ML REV. WATER PER CITY
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(815)–547–8435 FAX: (815)–544–0421

PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
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CHECKED BY KCB	DATE 9/3/02	

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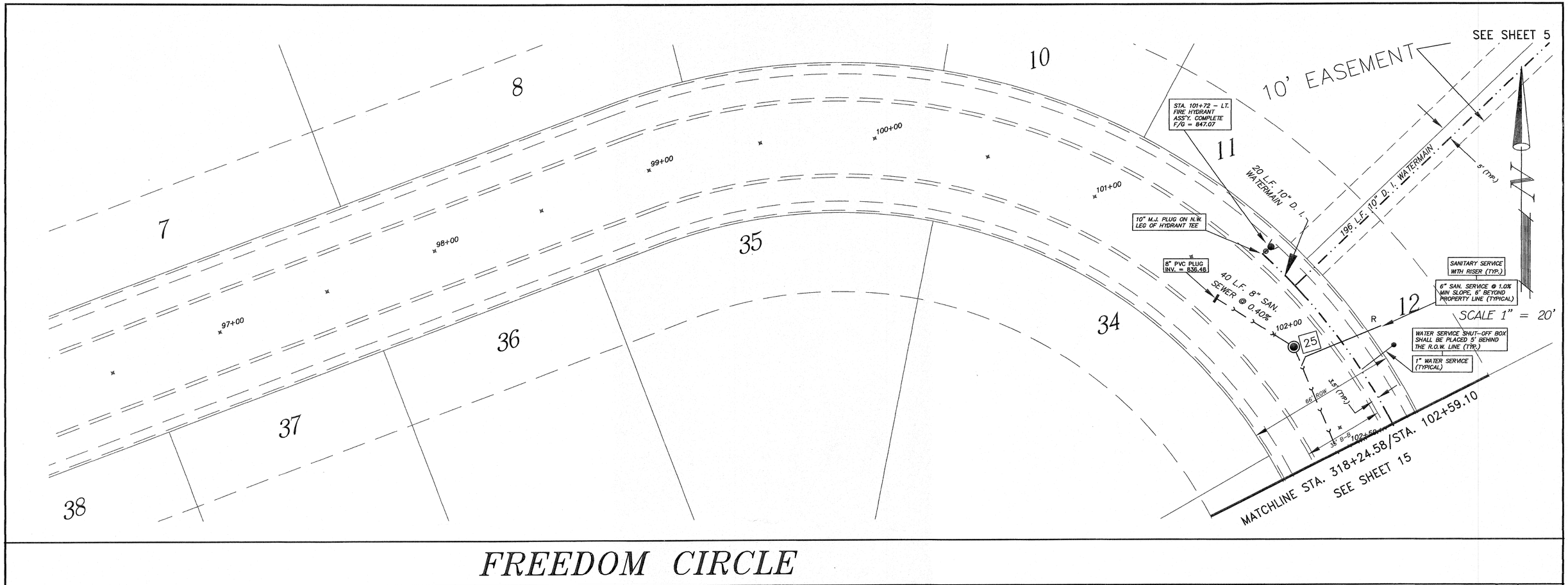

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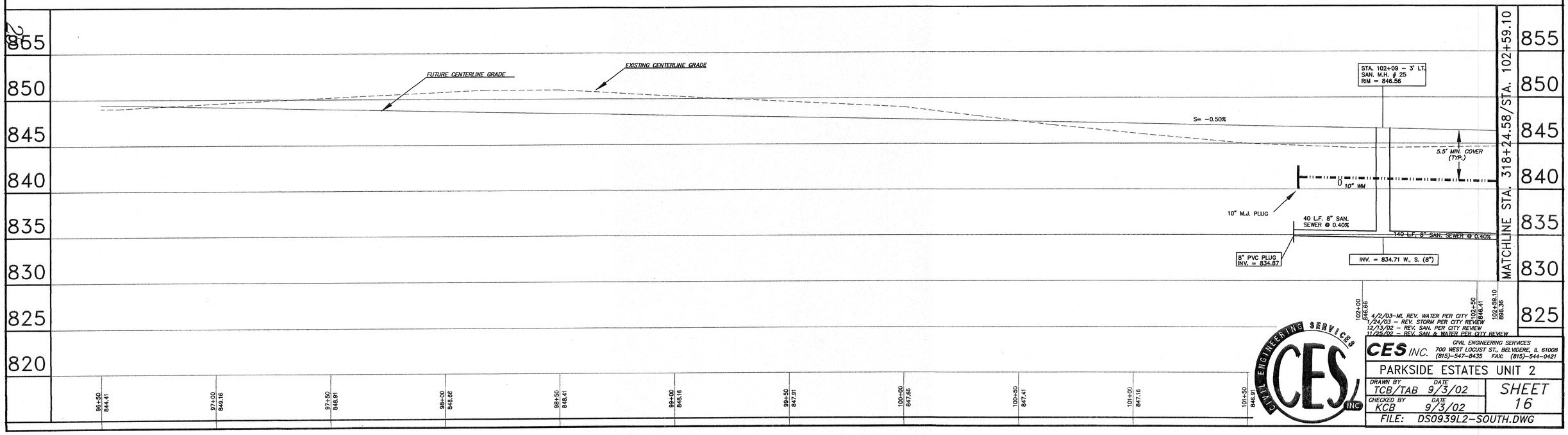

4/2/03–ML REV. WATER PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	16
CHECKED BY KCB	DATE 9/3/02	

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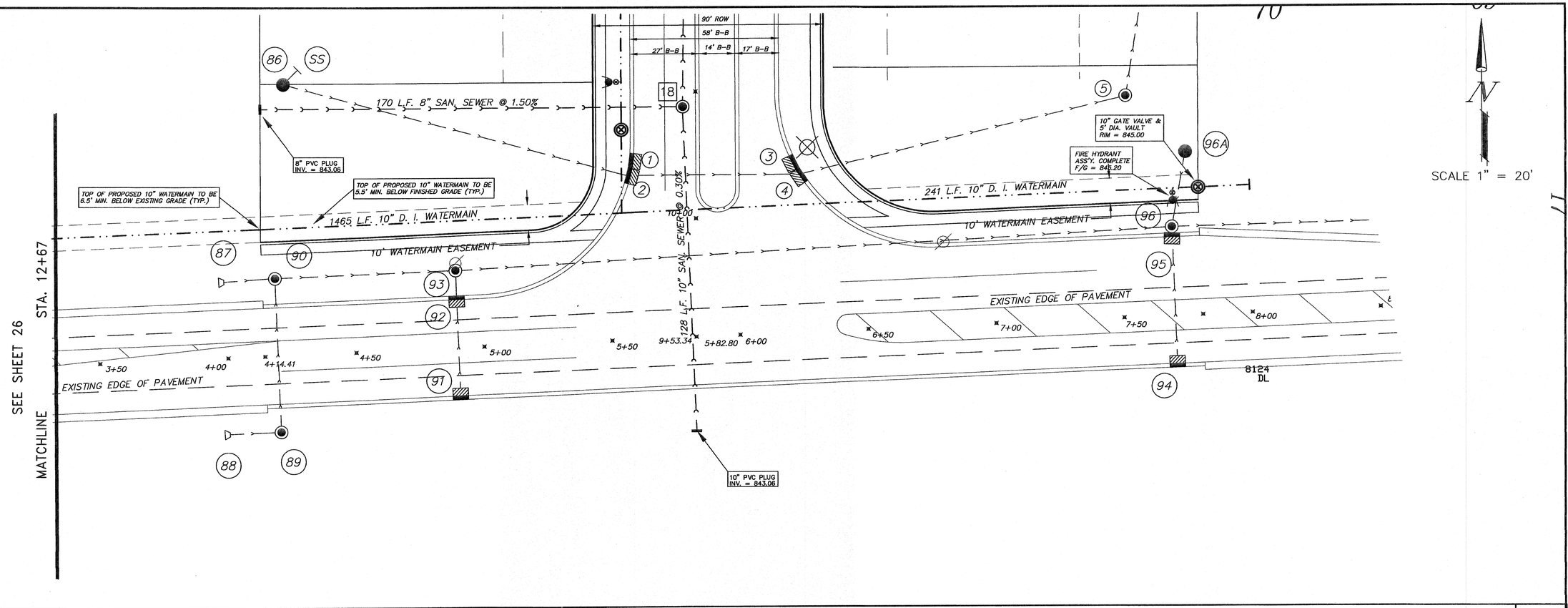
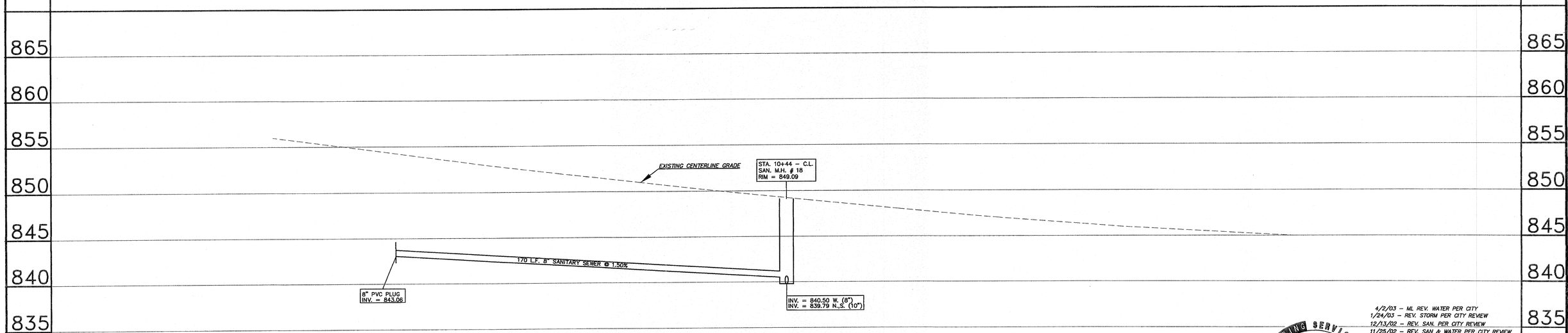


BETHANY ROAD



4/2/03 - ML REV. WATER PER CITY
1/24/03 - REV. STORM PER CITY REVIEW
12/13/02 - REV. SAN. PER CITY REVIEW
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TAB/TCB	9/15/02	17
CHECKED BY KCB	DATE 9/15/02	

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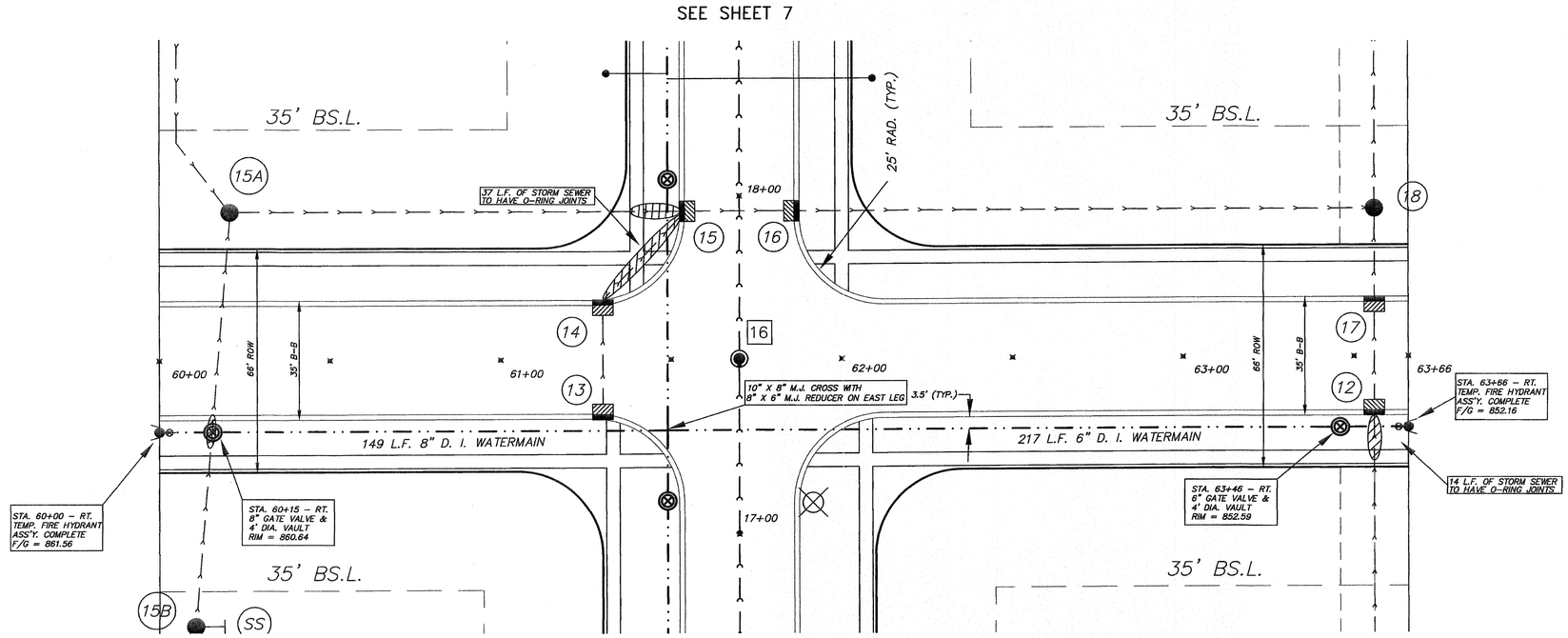

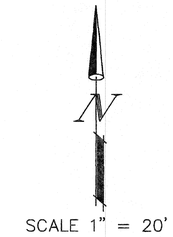

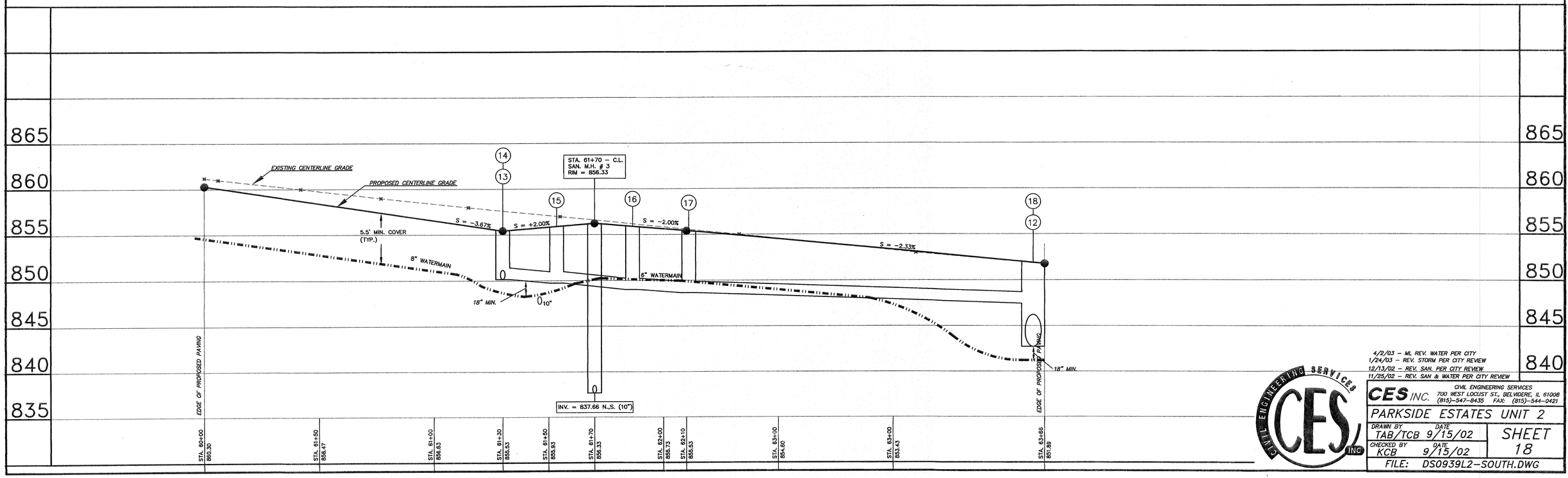

4/2/03 - ML REV. WATER PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TAB/TCB	9/15/02	18
CHECKED BY KCB	DATE 9/15/02	

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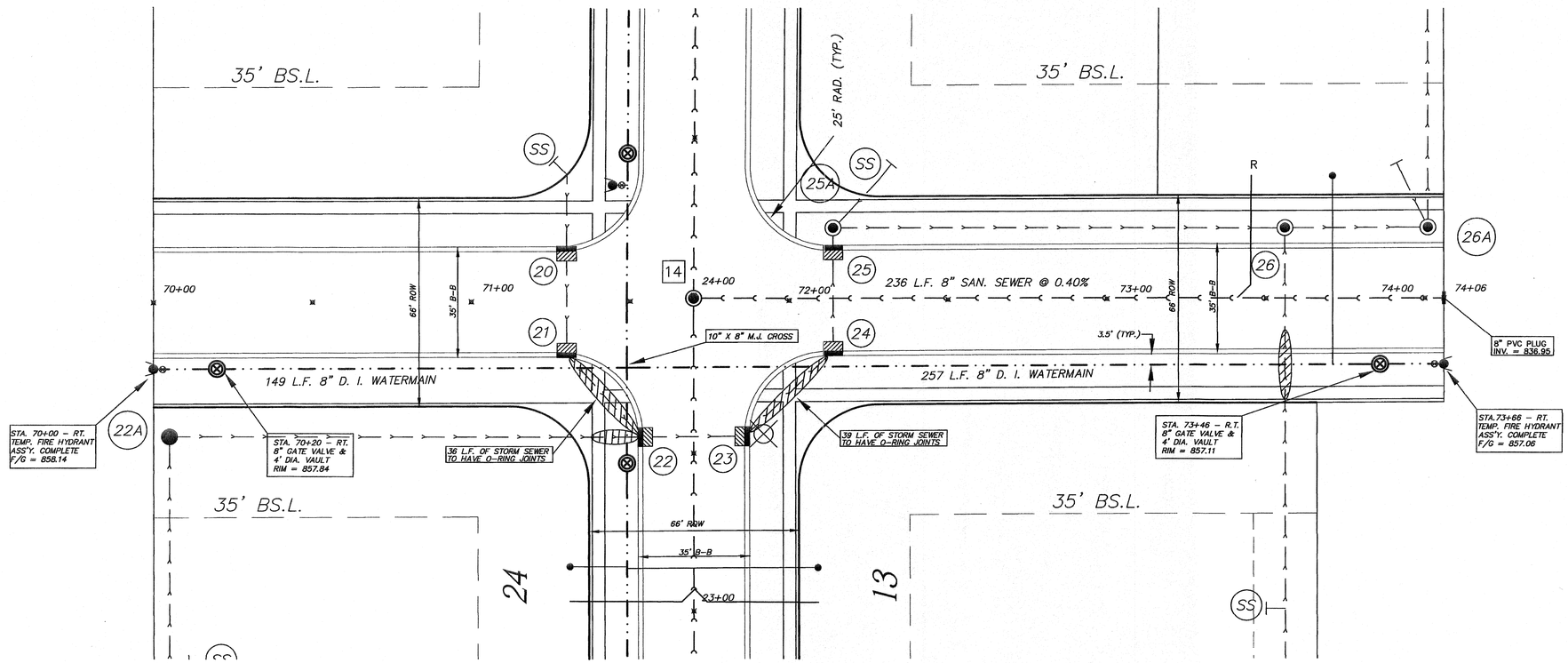
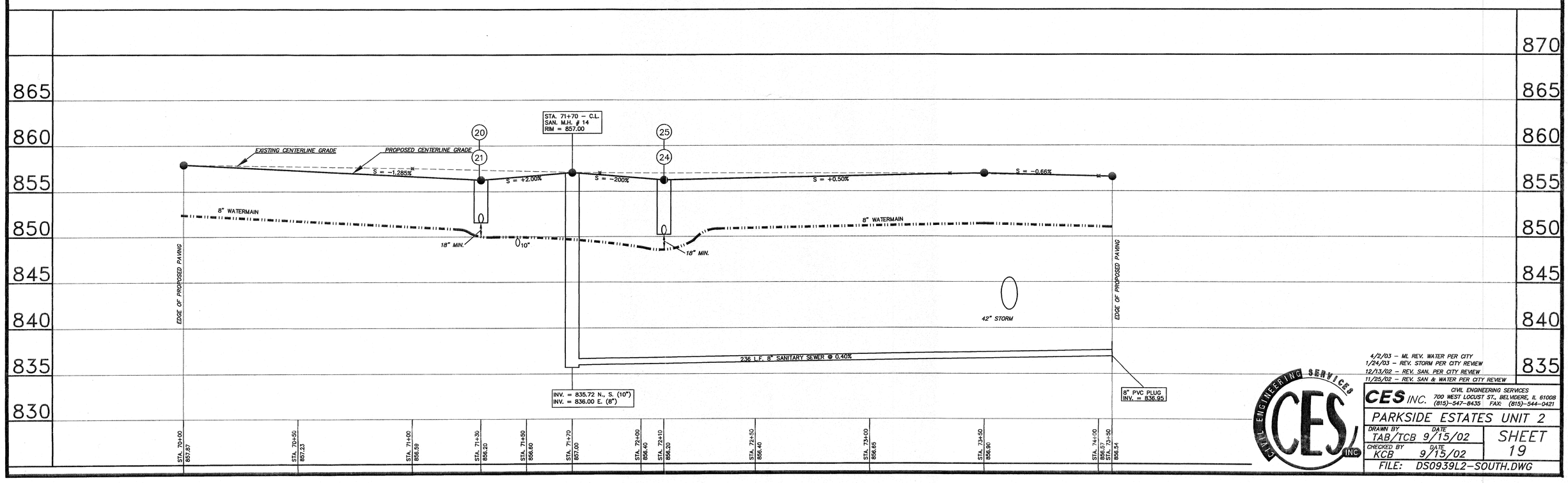
SEE SHEET 8



SEE SHEET 8

N

SCALE 1" = 20'



4/2/03 – ML REV. WATER PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TAB/TCB	9/15/02	19
CHECKED BY KCB	DATE 9/15/02	

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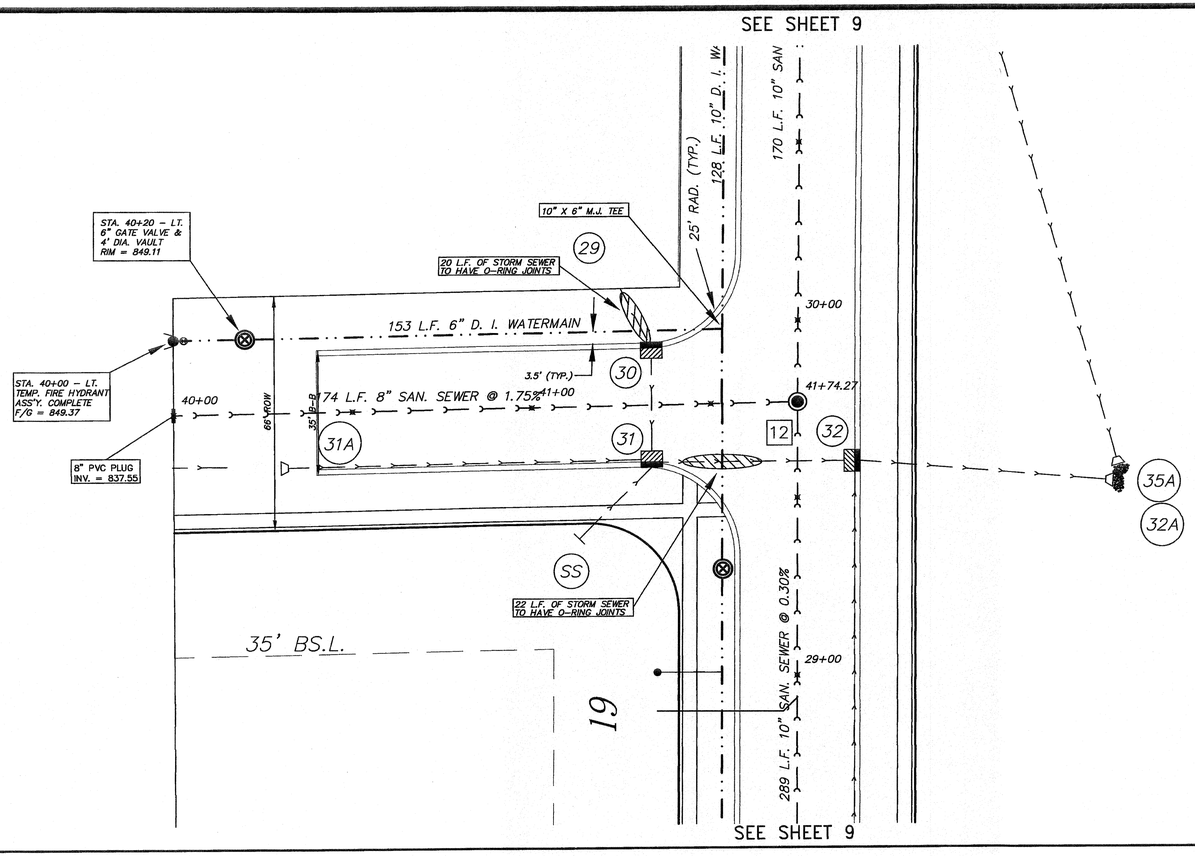

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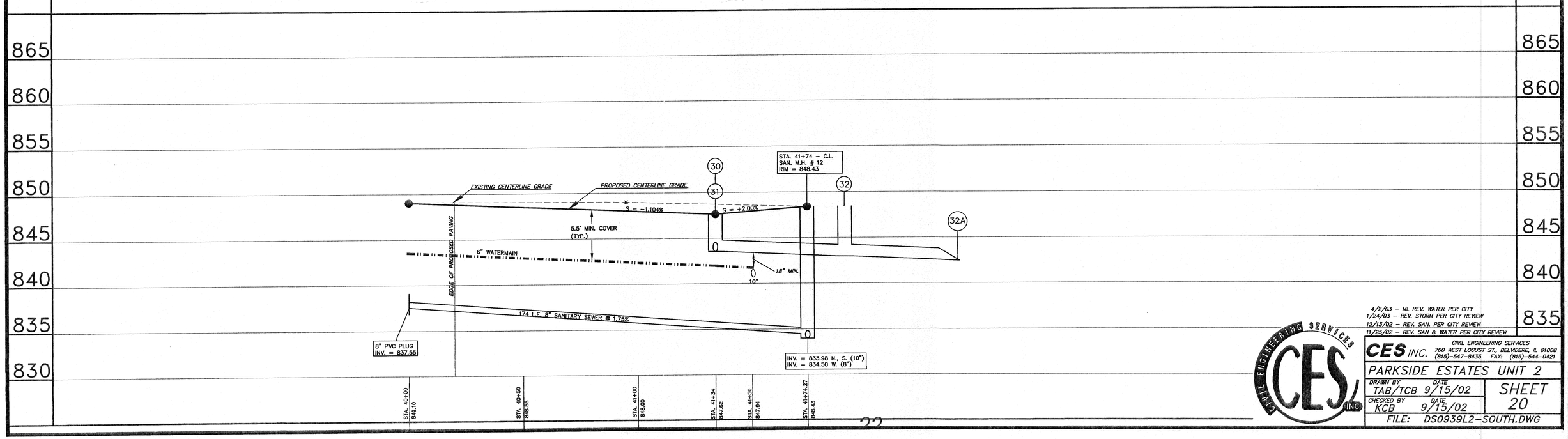

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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
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CHECKED BY KCB	DATE 9/15/02	

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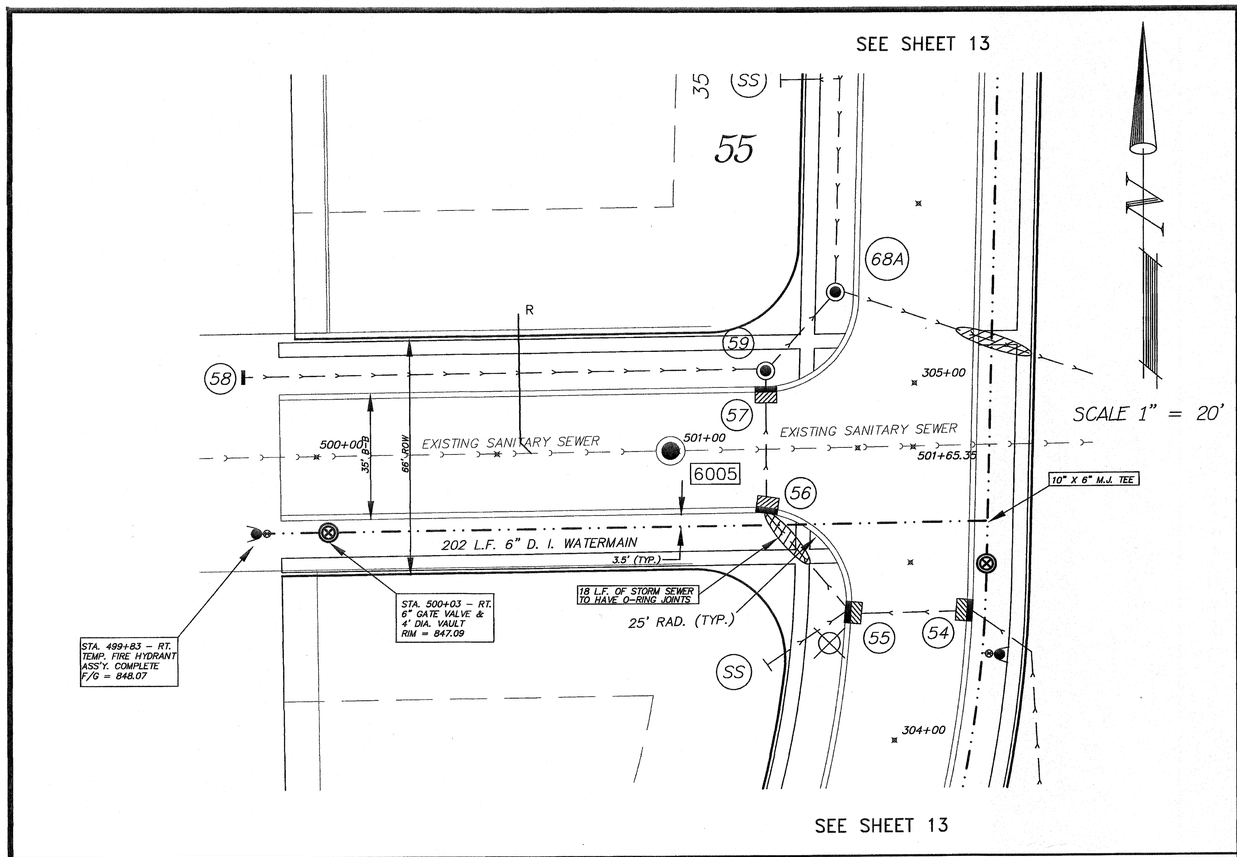
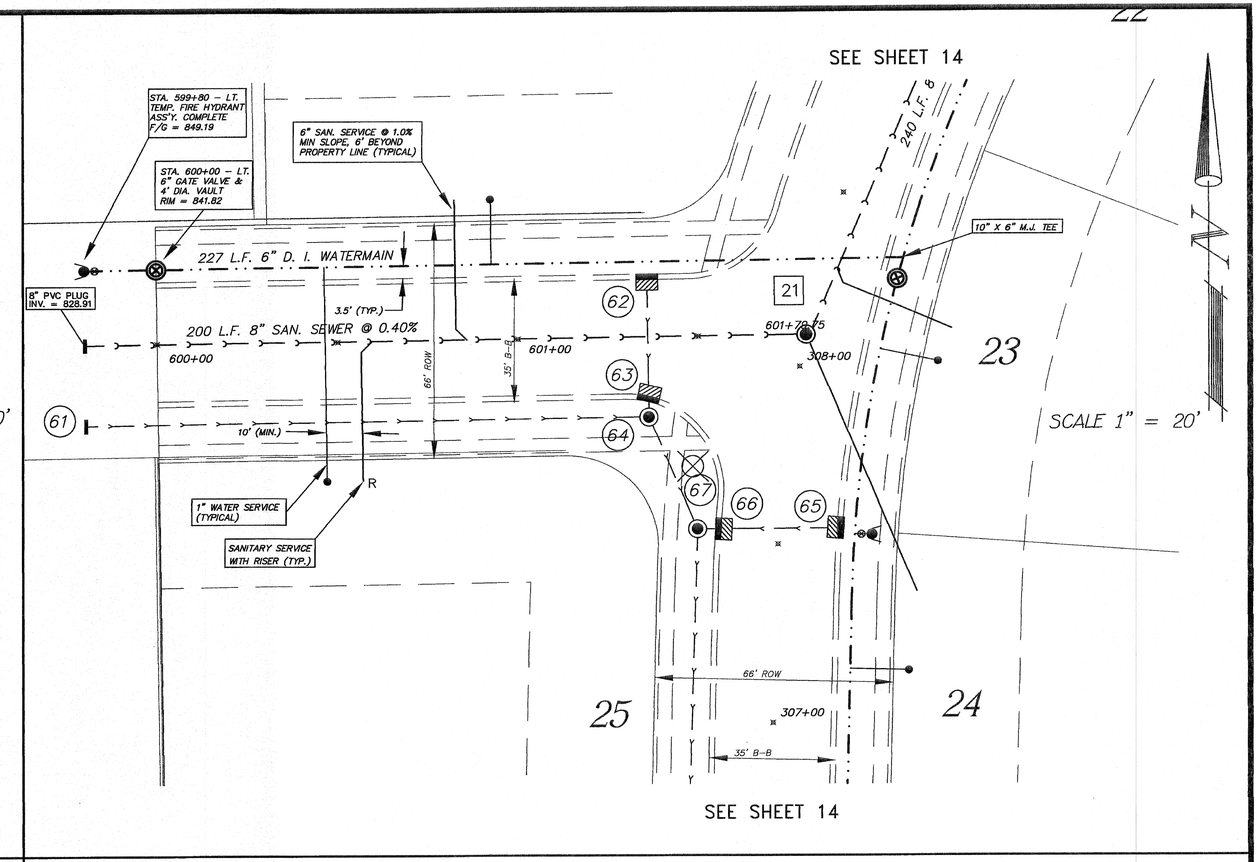
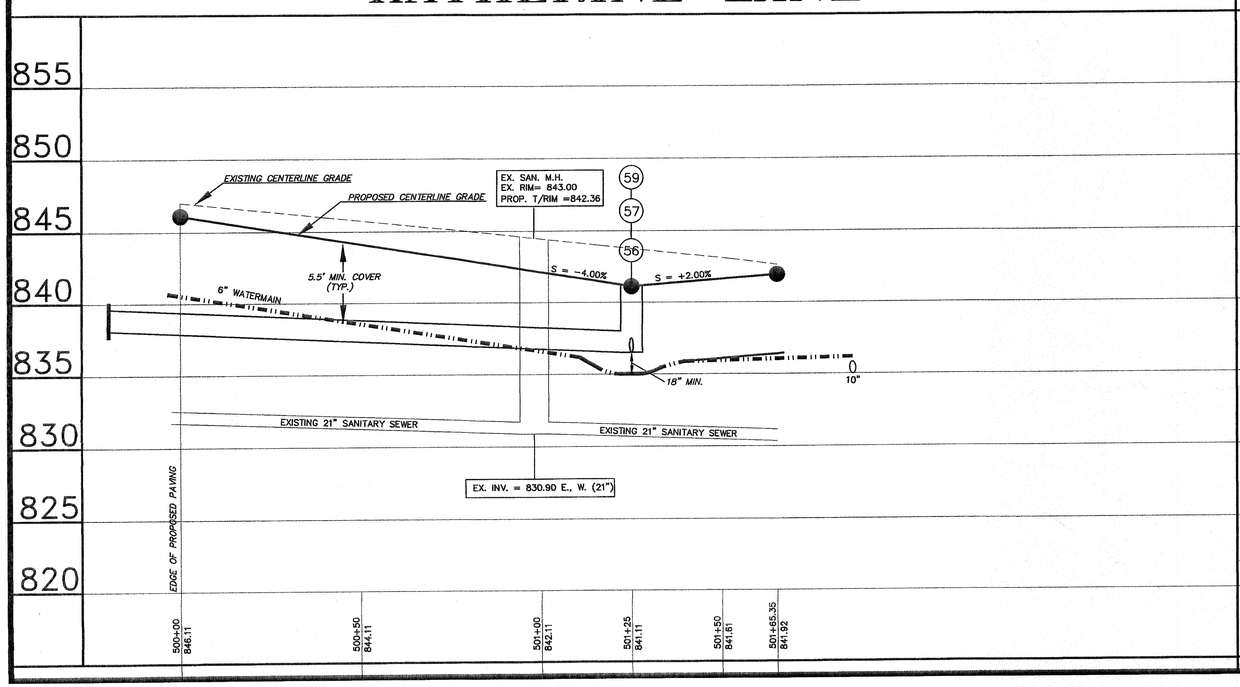
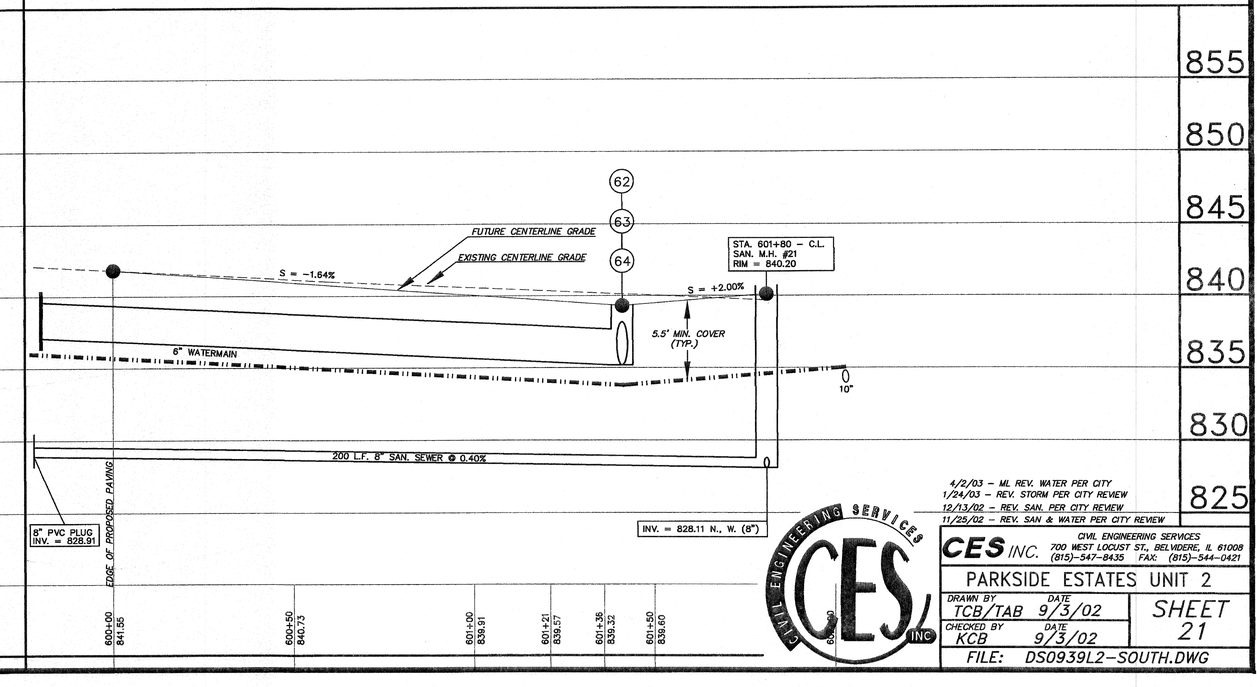




KATHERINE LANE



IVAN DRIVE



4/2/03 – ML REV. WATER PER CITY
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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	21
CHECKED BY KCB	DATE 9/3/02	

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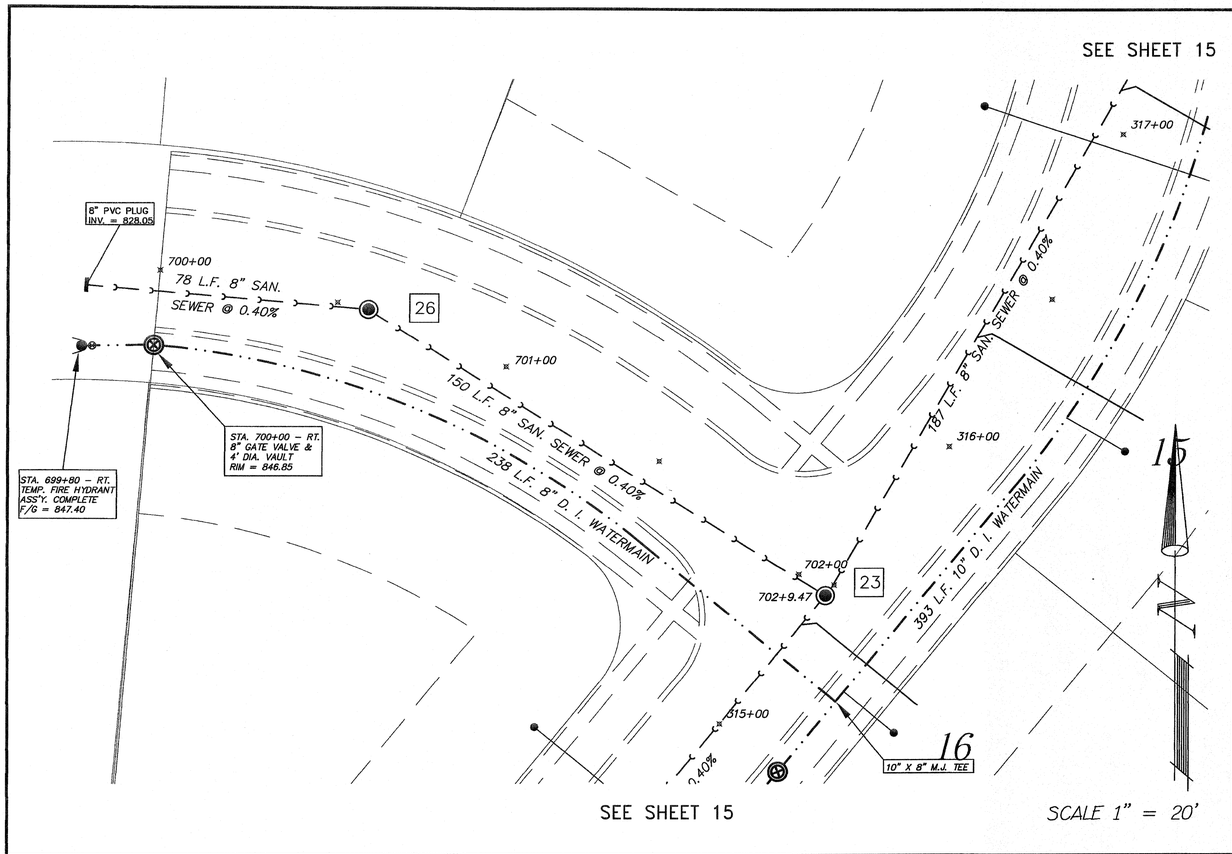
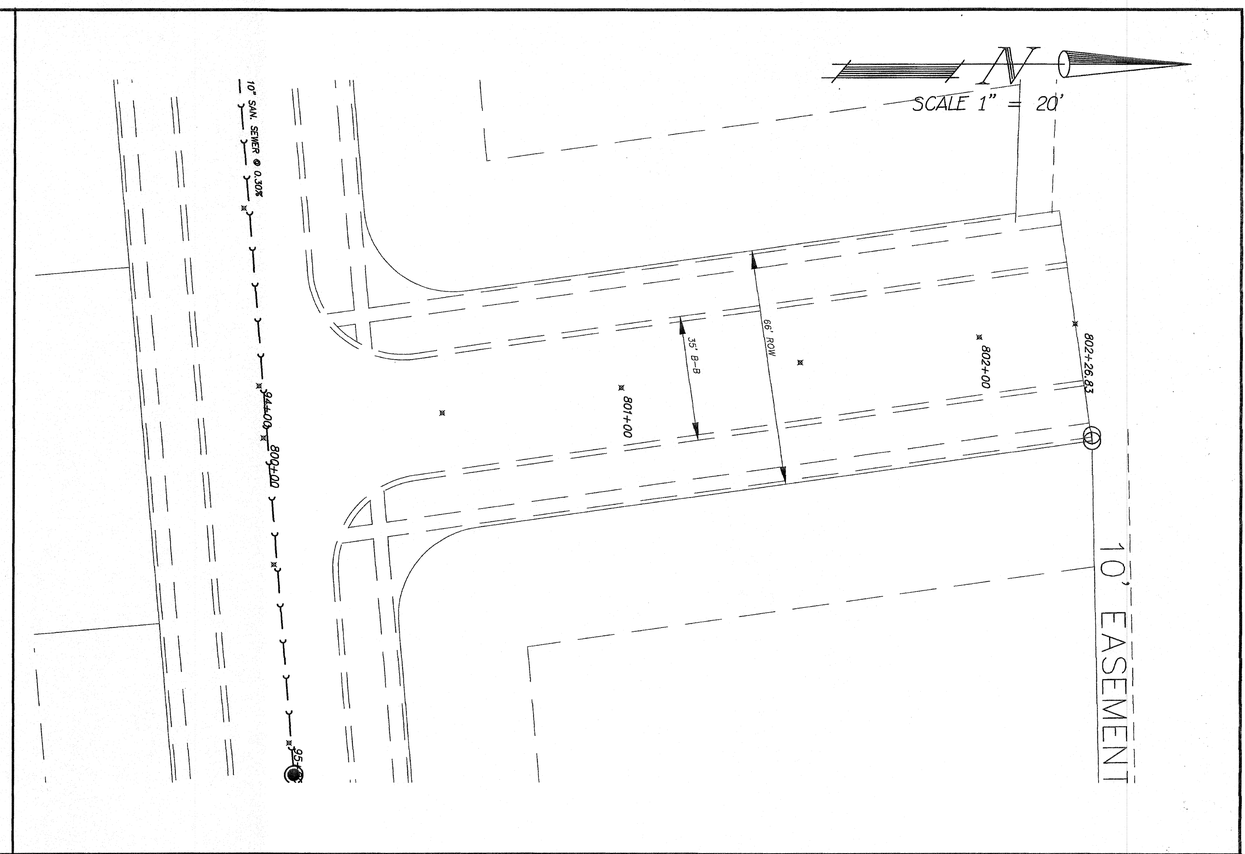
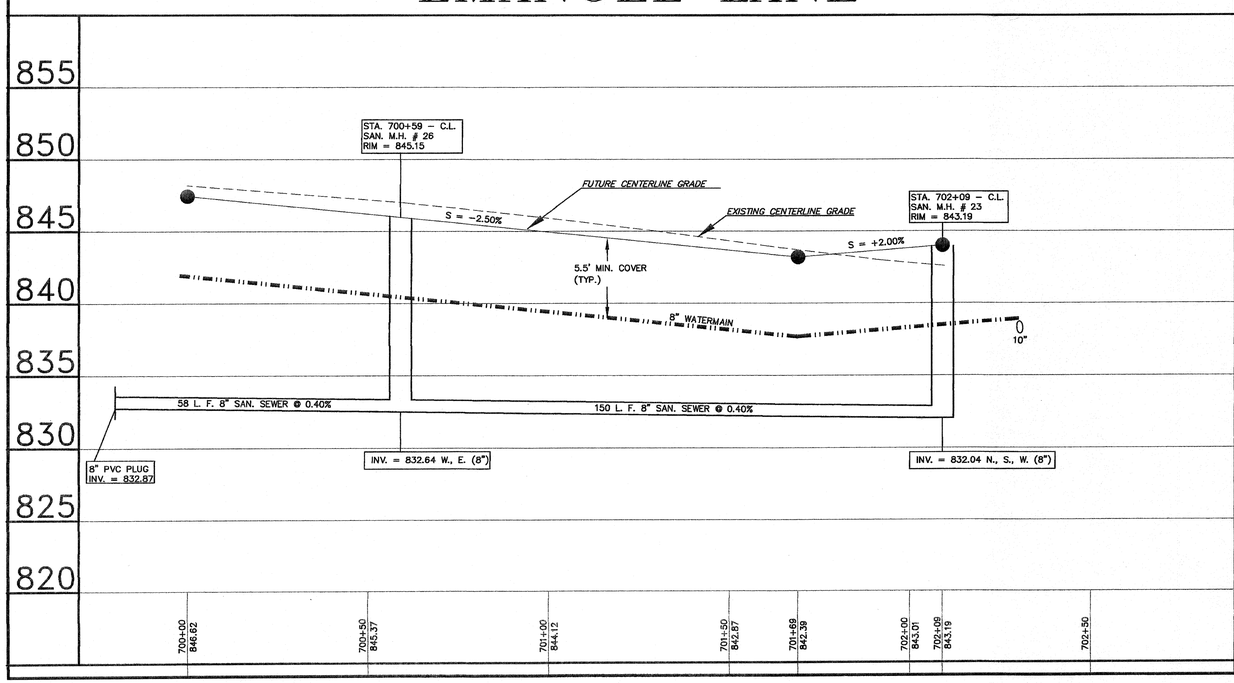
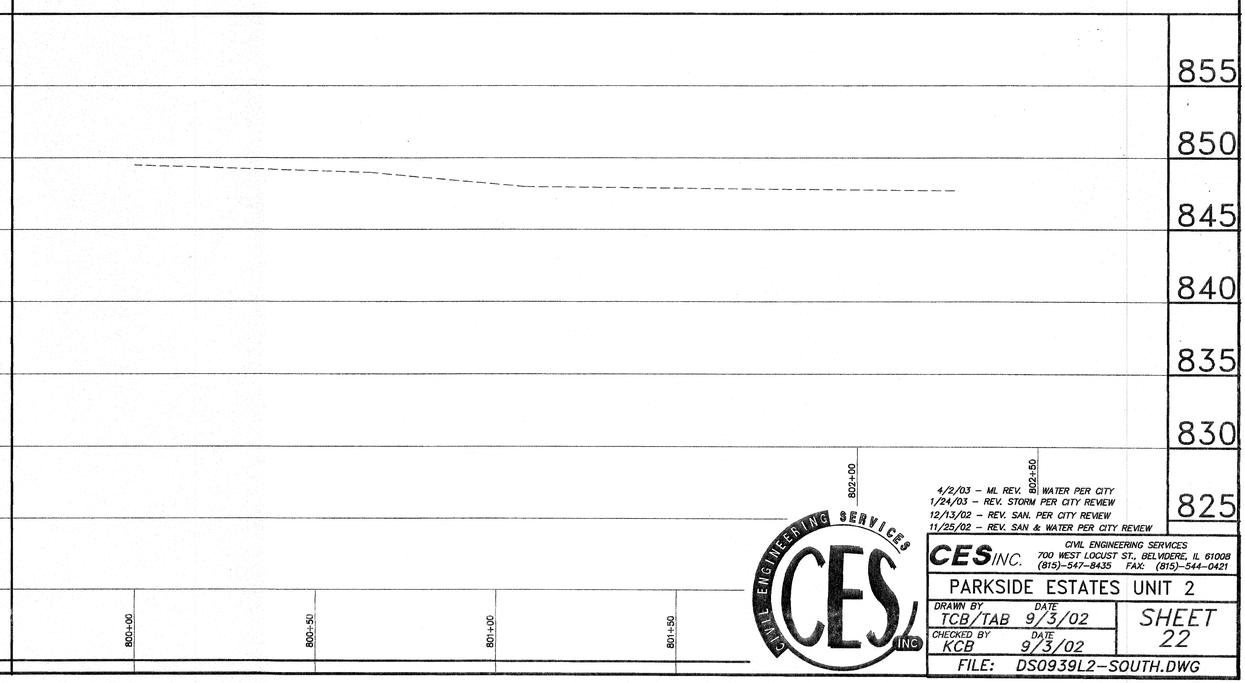




EMANUEL LANE



CLOVERLANE DRIVE



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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	22
CHECKED BY KCB	DATE 9/3/02	

FILE: DS0939L2-SOUTH.DWG

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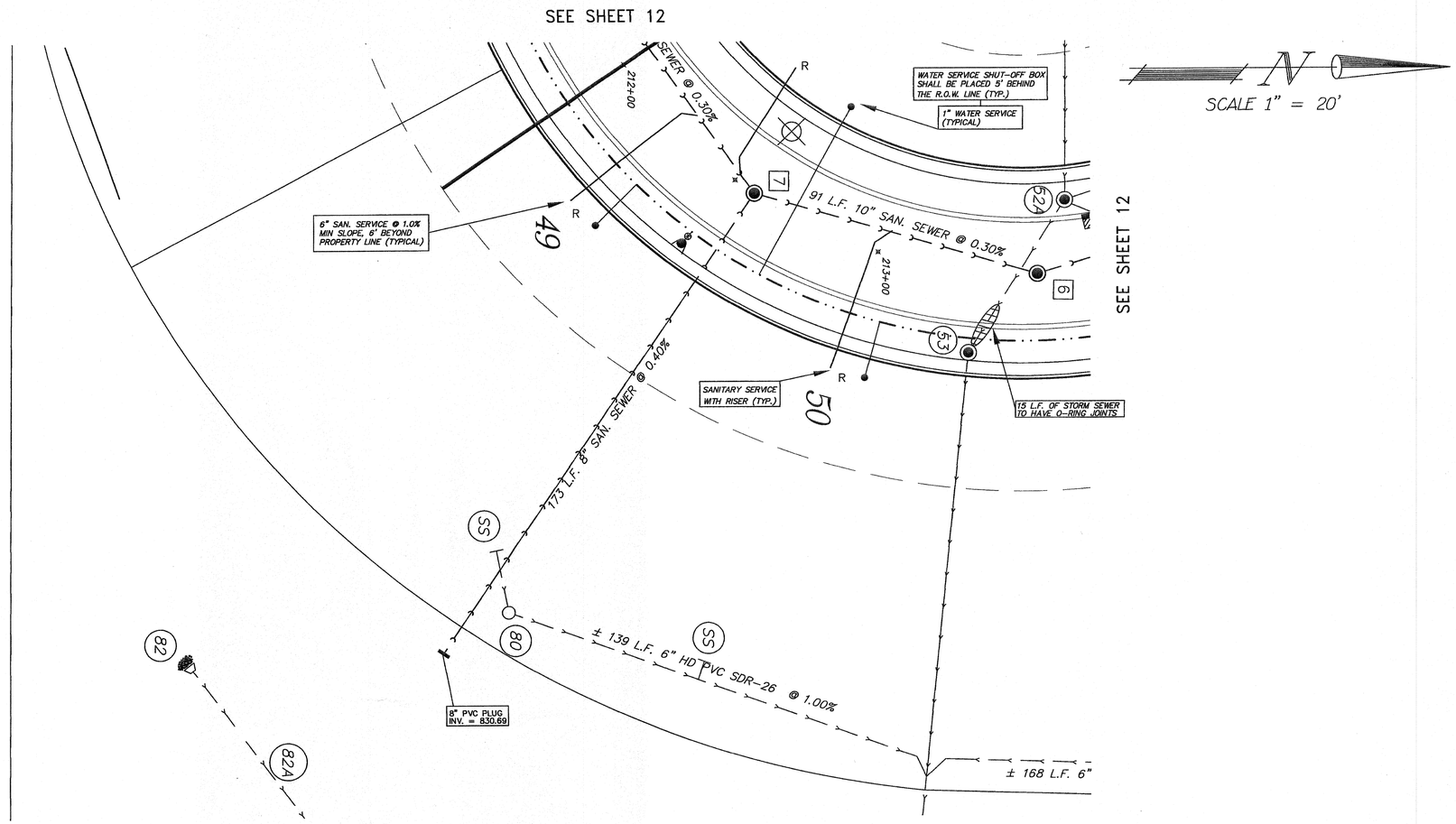
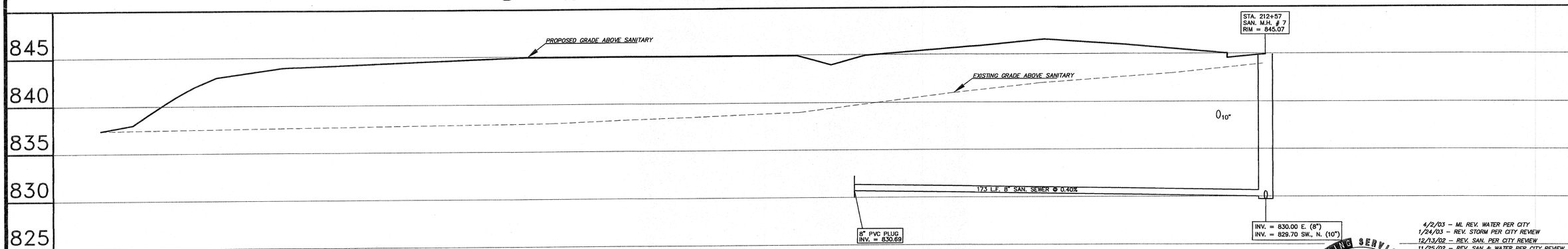


8" SANITARY SEWER EXTENTION



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PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
TCB/TAB	9/3/02	23
CHECKED BY KCB	DATE 9/3/02	

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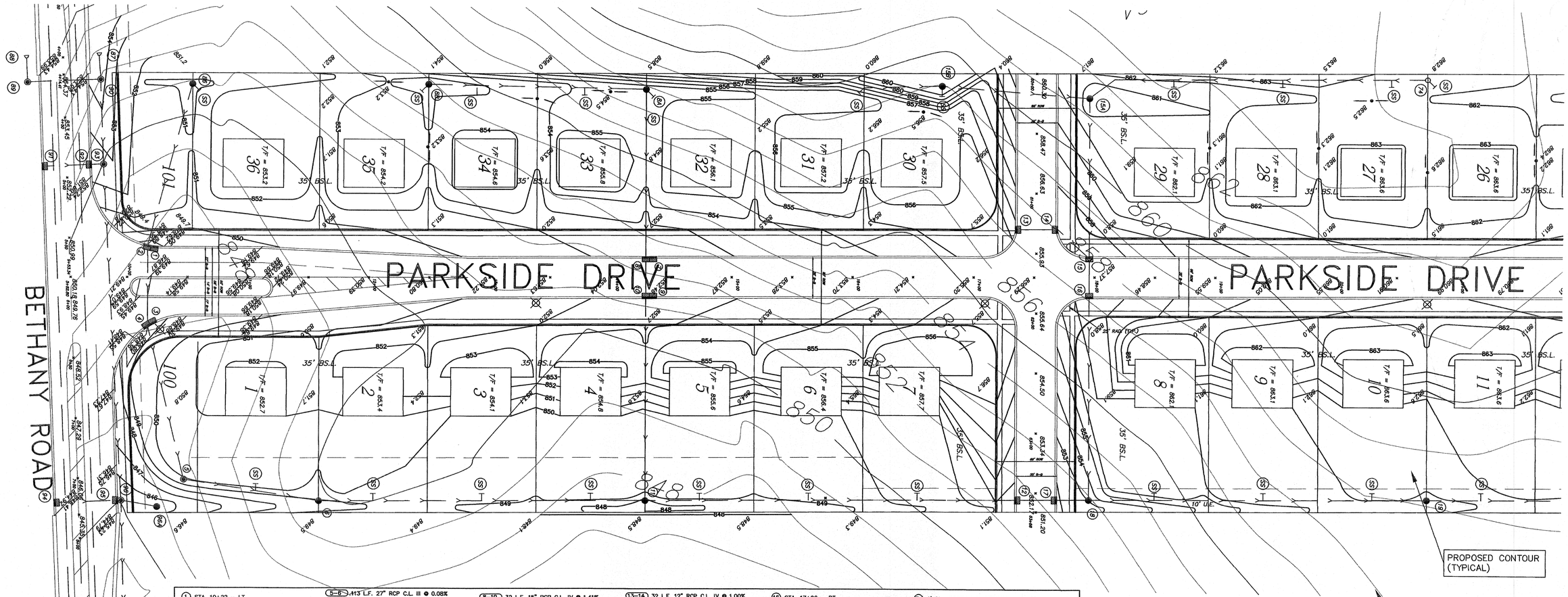
OVERALL GRADING PLAN

N

SCALE 1" = 40'



(1) STA. 10+22 – LT.
2' X 3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 848.92
S. INV. = 843.70

(1-2) 5 L.F. 15" RCP C.L. IV @ 1.00%

(2) STA. 10+17 – LT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 848.88
N. INV. = 843.65
E. INV. = 843.05
NW. INV. = 844.38

(2-4) 63 L.F. 24" RCP C.L. III @ 0.08%

(3) STA. 10+22 – RT
2' X 3' C.B. WITH NEENAH
R-3246 FRAME &
TYPE C GRATE
T/C = 848.84
S. INV. = 843.65

(3-4) 5 L.F. 15" RCP C.L. IV @ 1.00%

(4) STA. 10+17 – RT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 848.80
N. INV. = 843.60
W. INV. = 843.00
E. INV. = 842.80

(4-5) 132 L.F. 27" RCP C.L. III @ 0.08%

(5) 5' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B CLOSED LID
T/RIM = 849.80
W. INV. = 842.91
N. INV. = 842.91

(5-6) 413 L.F. 27" RCP C.L. III @ 0.08%

(6) 5' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE B OPEN LID
T/RIM = 848.80
S. INV. = 842.82
N. INV. = 842.62

(6-11) 270 L.F. 30" RCP C.L. III @ 0.08%

(7) STA. 11+34 – LT.
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 852.44
E. INV = 846.48
SUMP INV = 848.44

(7-8) 5' L.F. 12" RCP C.L. IV @ 1.00%

(8B) 4' DIA. M.H. WITH NEENAH
R-4342 GRATE
RIM = 852.60
N. INV. = 848.60
SUMP INV. = 848.60

(8B-8A) 180 L.F. 12" RCP C.L. IV @ 0.50%

(8A) 4' DIA. M.H. WITH NEENAH
R-4342 GRATE
RIM = 854.00
E. INV. = 847.50
S. INV. = 847.70
SUMP INV. = 850.00

(8A-8) 139 L.F. 15" RCP C.L. IV @ 0.91%

(8) STA. 11+29 – LT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 852.40
N. INV. = 846.43
E. INV. = 846.23
W. INV. = 846.23

(8-10) 32 L.F. 15" RCP C.L. IV @ 1.41%

(9) STA. 11+24 – RT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 852.44
S. INV = 846.03

(9-10) 5 L.F. 12" RCP C.L. IV @ 1.00%

(10) STA. 11+29 – RT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 852.40
W. INV. = 845.78
N. INV. = 845.98
E. INV. = 845.58

(10-11) 171 L.F. 18" RCP C.L. IV @ 0.95%

(11) 5' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
T/RIM = 847.50
S. INV. = 842.40
N. INV. = 842.40
W. INV. = 843.95

(11-12) 307 L.F. 36" RCP C.L. III @ 0.10%

(12) STA. 63+61 – RT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 852.04
N. INV. = 842.09
S. INV. = 842.09

(12-17) 32 L.F. 36" RCP C.L. III @ 0.10%

(13) STA. 61+30 – RT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 855.61
N. INV. = 851.11

(13-14) 32 L.F. 12" RCP C.L. IV @ 1.00%

(14) STA. 61+30 – LT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 855.61
S. INV. = 850.79
NE. INV. = 850.79

(14-15) 37 L.F. 12" RCP C.L. IV @ 1.00%

(15B) 2' DIA. M.H. WITH NEENAH
R-4342 GRATE
RIM = 858.50
N. INV. = 852.00
S. INV. = 852.00

(15B-15A) 123 L.F. 12" RCP C.L. IV @ 1.00%

(15A) 4' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
RIM = 860.00
S. INV. = 850.77
E. INV. = 850.57
SUMP INV. = 855.82

(15A-15) 135 L.F. 15" RCP C.L. IV @ 0.50%

(15) STA. 17+96 – LT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 857.41
E. INV. = 849.90
W. INV. = 849.90
SW. INV. = 850.42

(15-16) 32 L.F. 15" RCP C.L. IV @ 0.96%

(16) STA. 17+96 – RT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 857.41
E. INV. = 849.39
W. INV. = 849.59

(16-18) 171 L.F. 18" RCP C.L. IV @ 1.32%

(17) STA. 63+61 – LT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 852.04
N. INV. = 841.77
S. INV. = 841.77

(17-18) 28 L.F. 36" RCP C.L. III @ 0.11%

(18) STA. 63+61
6' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE B OPEN LID
T/C = 852.04
W. INV. = 847.14
S. INV. = 841.74
N. INV. = 841.34

(18-19) 280 L.F. 42" RCP C.L. III @ 0.14%

(19) 6' DIA. M.H. WITH NEENAH
R-1077-B FRAME &
TYPE B OPEN LID
RIM = 857.50
S. INV. = 840.95
N. INV. = 840.95

(19-26) 346 L.F. 42" RCP C.L. IV @ 0.14%

(74) 2' DIA. STORM M.H. NEENAH
R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 862.70
INV. = 858.70
SUMP INV. = 858.70

(74-96A) 285 L.F. 6" PVC SDR-26 @ 1.00%

(96) 4' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
RIM = 850.50
SW. INV. = 845.09
SUMP INV. = 846.00

(96-2) 139 L.F. 12" RCP C.L. IV @ 0.51%

(96A) 2' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
RIM = 845.50
S. INV. = 841.50

(96A-96) 30 L.F. 12" RCP C.L. IV @ 0.50%

(SS) 4" SUMP STUB (TYP.)

TYPICAL FOR ALL FLARED END SECTIONS

PROVIDE TOE WALL BENEATH FLARED END SECTION AND INSTALL 10 S.Y. RR-5 RIP RAP AROUND END OF FLARED END SECTION. FILL VOIDS OF RIP RAP WITH PEA ROCK MIX OF 5 BAG CONCRETE MIX.

NOTE:

ALL SUMP LINES CONNECTED TO RCP PIPE SHALL BE WITH AN INSERTA TEE AND PIPE SHALL BE NEATLY CORE-DRILLED FOR THIS PURPOSE

9/16/03– REV. STORM PER REVIEW
7/28/03– REV. STORM PER REVIEW
7/14/03– REV. STORM PER. NEW PLAT
4/24/03– REV. STORM AND POND PER CITY REVIEW
4/2/03 – ML REV. WATER PER CITY
4/2/03 – REV. SHEET NUMBER
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
11/25/02 – REV. SAN. & WATER PER CITY REVIEW

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CES INC.
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700 WEST LOCUST ST., BELVIDERE, IL 61008
(815)-547-8435 FAX: (815)-544-0421

PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
MBL	11/15/02	27
CHECKED BY KCB	DATE 11/15/02	

FILE: DS0939G1.DWG

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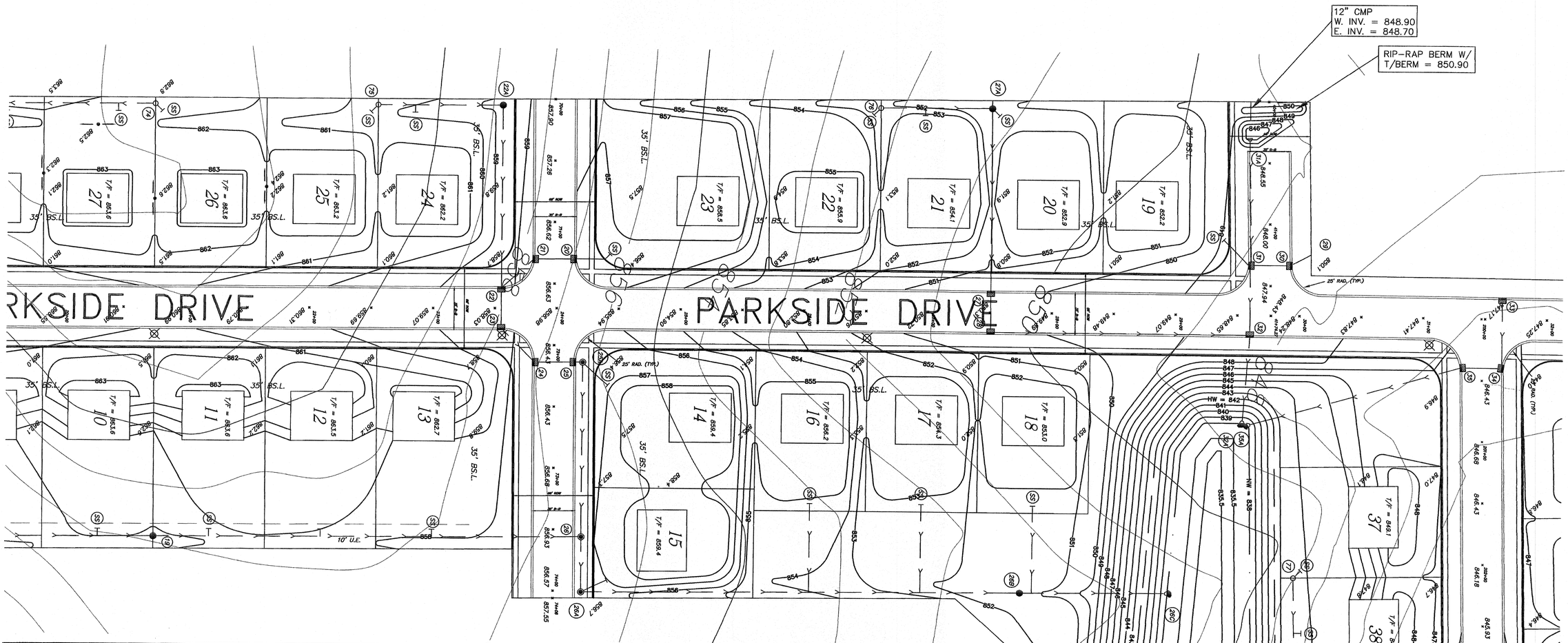
OVERALL GRADING PLAN

N

SCALE 1" = 40'



(19) 6' DIA. M.H. WITH NEENAH
R-1077-B FRAME &
TYPE B OPEN LID
RIM = 857.50
S. INV. = 840.95
N. INV. = 840.95

(19-26) 346 L.F. 42" RCP C.L. IV @ 0.14%

(20) STA. 71+30 – LT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 856.30
S. INV. = 851.80
SUMP INV. = 852.30

(20-21) 32 L.F. 12" RCP C.L. IV @ 0.30%

(21) STA. 71+30 – RT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 856.30
N. INV. = 851.70
SE. INV. = 851.70

(21-22) 36 L.F. 12" RCP C.L. IV @ 0.30%

(22A) 2' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
RIM = 858.00
E. INV. = 854.00
SUMP INV. = 854.00

(22A-22) 145 L.F. 12" RCP C.L. IV @ 1.66%

(22) STA. 23+55 – LT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME AND TYPE C GRATE
T/C = 858.05
E. INV. = 851.59
W. INV. = 851.59
NW. INV. = 851.59
SUMP INV. = 854.05

(22-23) 32 L.F. 12" RCP C.L. IV @ 1.03%

(23) STA. 23+55 – RT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 858.05
NE. INV. = 851.26
W. INV. = 851.26

(23-24) 39 L.F. 12" RCP C.L. IV @ 1.85%

(24) STA. 72+14 – RT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 856.30
SW. INV. = 850.54
N. INV. = 850.34

(24-25) 32 L.F. 15" RCP C.L. IV @ 1.17%

(25) STA. 72+14 – LT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 856.30
S. INV. = 849.97
N. INV. = 849.77

(25-25A) 7 L.F. 18" RCP C.L. IV @ 0.61%

(25A) STA. 72+14 – 22.5' LT
4' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B CLOSED LID
RIM = 856.50
E. INV. = 850.73
S. INV. = 850.73

(25A-26) 142 L.F. 18" RCP C.L. IV @ 0.61%

(26) STA. 73+61 – 22.5' LT
7' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B CLOSED LID
T/RIM = 857.20
W. INV. = 848.86
S. INV. = 840.47
E. INV. = 840.47

(26-26A) 45 L.F. 42" RCP C.L. IV @ 0.23%

(26A) STA. 74+01 – 22.5' LT
7' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B CLOSED LID
RIM = 856.50
W. INV. = 840.37
N. INV. = 840.37

(26A-26B) 355 L.F. 42" RCP C.L. IV @ 0.23%

(26B) 6' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
RIM = 851.00
S. INV. = 839.55
N. INV. = 839.55

(26B-26C) 109 L.F. 42" RCP C.L. III @ 1.42%

(26C) 42" PRECAST END SECTION
INV. = 838.00

(27A) 2' DIA. M.H. WITH NEENAH
R-1077-B FRAME & TYPE
B OPEN LID
RIM = 851.00
E. INV. = 847.00
SUMP INV. = 847.00

(27A-27) 152 L.F. 12" RCP C.L. IV @ 1.00%

(27) STA. 27+51 – LT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME AND TYPE C GRATE
T/C = 850.41
E. INV. = 845.28
W. INV. = 845.48

(27-28) 32 L.F. 15" RCP C.L. IV @ 1.00%

(28) STA. 27+51 – RT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 850.41
W. INV. = 844.96
N. INV. = 844.96

(28-32) 209 L.F. 15" RCP C.L. IV @ 2.43%

(29) STUB EXISTING POND OUTLET
20 L.F. 12" RCP @ C.L. IV @ 1.00%
INV. = 841.99

(30) STA. 41+33 – LT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 847.75
N. INV. = 841.79
S. INV. = 841.79

(30-31) 32 L.F. 12" RCP C.L. IV @ 1.00%

(31A) 18" PRECAST ENDSECTION WITH
TRASH RACK
INV. = 844.00

(31A-31) 125 L.F. 21" RCP C.L. IV @ 3.11%

(31) STA. 41+33 – RT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 847.75
N. INV. = 841.47
W. INV. = 840.11
E. INV. = 840.11

(31-32) 57 L.F. 27" RCP C.L. IV @ 1.17%

(32) STA. 29+60 – RT
5' DIA. C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 848.69
W. INV. = 839.44
S. INV. = 839.88
E. INV. = 839.44

(32-32A) 71 L.F. 27" RCP C.L. IV @ 2.03%

(32A) 18" PRECAST ENDSECTION WITH
TRASH RACK
INV. = 838.00

(33) STA. 31+64 – LT
2'x3' C.B. WITH NEENAH
R-3246 FRAME AND TYPE C GRATE
T/C = 847.80
E. INV. = 842.55

(33-34) 56 L.F. 12" RCP C.L. IV @ 1.00%

(34) STA. 200+40 – RT
4' DIA. C.B. WITH NEENAH
R-3246 FRAME AND TYPE C GRATE
T/C = 846.49
W. INV. = 841.99
S. INV. = 841.99

(34-35) 32 L.F. 12" RCP C.L. IV @ 0.45%

(35) STA. 200+40 – RT
2'x3' C.B. WITH NEENAH
R-3246 FRAME & TYPE C GRATE
T/C = 846.49
N. INV. = 841.85
S. INV. = 841.85

(35-35A) 180 L.F. 12" RCP C.L. IV @ 2.14%

(35A) 12" PRECAST END SECTION
WITH TRASH RACK
INV. = 838.00

(74) 2' DIA. STORM M.H. NEENAH
R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 862.70
INV. = 858.70
SUMP INV. = 858.70

(74-15A) ± 288 L.F. 6" PVC SDR-26 @ 1.00%

(75) 2' DIA. STORM M.H. NEENAH
R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 860.30
N. INV. = 856.30
SUMP INV. = 856.30

(75-22A) ± 101 L.F. 6" PVC SDR-26 @ 2.28%

(76) 2' DIA. STORM M.H. NEENAH
R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 852.20
INV. = 847.95
SUMP INV. = 847.95

(76-27A) ± 95 L.F. 6" PVC SDR-26 @ 1.00%

(77) 2' DIA. STORM M.H. NEENAH
R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 846.00
INV. = 840.00
SUMP INV. = 841.00

(77-) ± 180 L.F. 6" PVC SDR-26 @ 1.00%
INV. @ 70-70A = ±838.20

(SS) 4" SUMP STUB (TYP.)

TYPICAL FOR ALL FLARED END SECTIONS
PROVIDE TOE WALL BENEATH FLARED END SECTION AND INSTALL 10 S.Y. RR-5 RIP RAP AROUND END OF FLARED END SECTION. FILL VOIDS OF RIP RAP WITH PEA ROCK MIX OF 5 BAG CONCRETE MIX.

NOTE:
ALL SUMP LINES CONNECTED TO RCP PIPE SHALL BE WITH AN INSERTA TEE AND PIPE SHALL BE NEATLY CORE-DRILLED FOR THIS PURPOSE

9/16/03– REV. STORM PER REVIEW
7/28/03– REV. STORM PER REVIEW
7/14/03– REV. STORM PER. NEW PLAT
4/24/03– REV. STORM AND POND PER CITY REVIEW
4/2/03 – ML REV. WATER PER CITY
4/2/03 – REV. SHEET NUMBER
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
11/25/02 – REV. SAN. & WATER PER CITY REVIEW

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PARKSIDE ESTATES UNIT 2

DRAWN BY MBL	DATE 11/15/02	SHEET 28
CHECKED BY KCB	DATE 11/15/02	

FILE: DS0939G1.DWG

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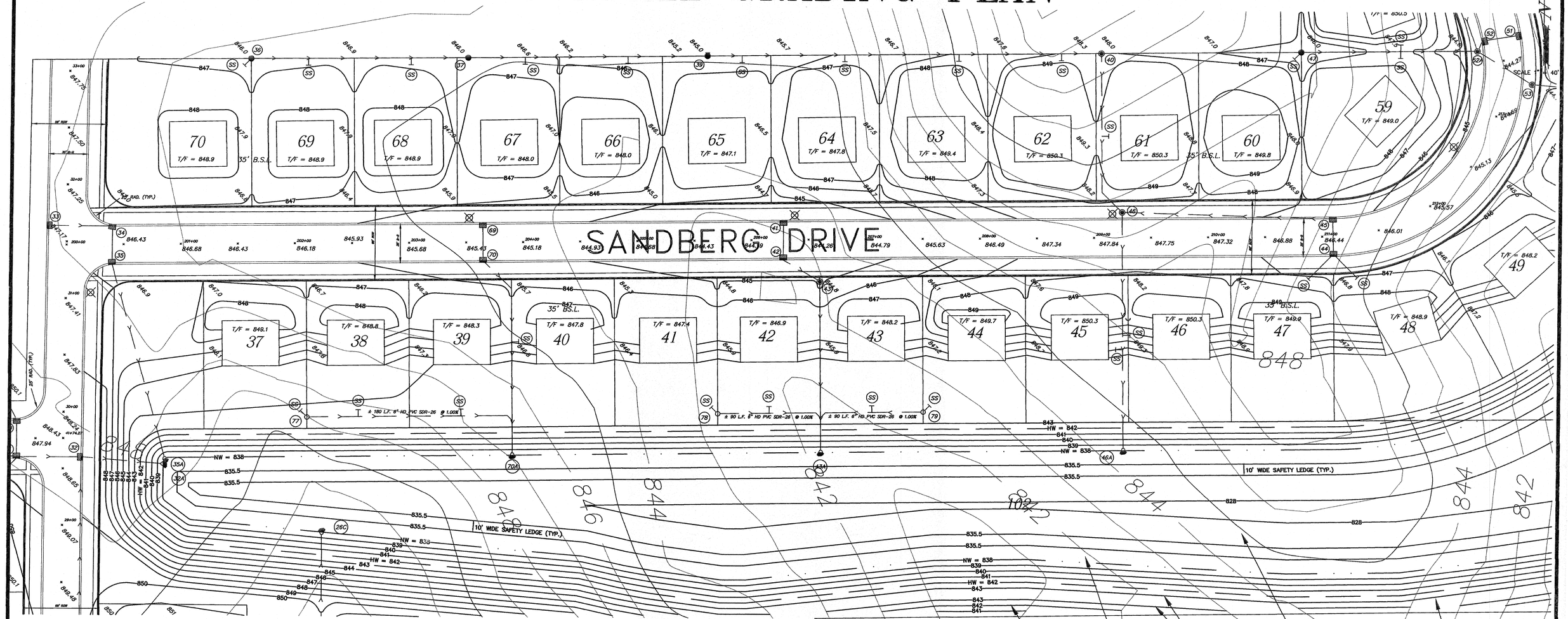
OVERALL GRADING PLAN



(36) 2' DIA. M.H. WITH NEENAH R-1077-B FRAME TYPE B OPEN LID
T/RIM = 846.00
E. INV. = 841.18
SUMP INV. = 842.00

(36-37) 190 L.F. 12" RCP C.L. IV @ 0.20%

(37) STA. 203+65 – LT
4' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B OPEN LID
T/RIM = 846.00
W. INV. = 840.80
E. INV. = 840.60

(37-39) 210 L.F. 15" RCP C.L. IV @ 0.16%

(39) 6' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B OPEN LID
T/RIM = 845.00
W. INV. = 840.26
N. INV. = 838.86 (36" PLUG)
E. INV. = 838.86

(39-40) 360 L.F. 36" RCP C.L. III @ 0.12%

(40) 6' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B OPEN LID
RIM = 848.00
W. INV. = 838.43
S. INV. = 838.43

(40-46) 198 L.F. 36" RCP C.L. III @ 0.11%

(41) STA. 206+13 – LT
2'x3' C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 844.16
S. INV. = 839.96

(41-42) 32 L.F. 15" RCP C.L. IV @ 1.00%

(42) STA. 206+13 – RT
4' DIA. C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 844.16
N. INV. = 838.64
SE. INV. = 838.24

(42-43) 48 L.F. 21" RCP C.L. IV @ 0.12%

(43) STA. 206+60 – 26' RT
4' DIA. STORM M.H. NEENAH R-1077 FRAME TYPE B CLOSED LID
T/RIM = 844.60
NW. INV. = 838.18
S. INV. = 838.18

(43-43A) 151 L.F. 21" RCP C.L. IV @ 0.12%

(43A) 21" PRECAST END SECTION WITH TRASH RACK
INV. = 838.00

(44) STA. 211+9 – RT
2'x3' C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 848.42
N. INV. = 843.24

(44-45) 32 L.F. 12" RCP C.L. IV @ 0.20%

(45) STA. 211+9 – LT
4' DIA. C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C/ = 848.42
S INV. = 843.18
W INV. = 843.18

(45-46) 184 L.F. 12" RCP C.L. IV @ 1.80%

(46) STA. 209+25 – 23' LT
6' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B CLOSED LID
T/RIM = 848.00
E. INV. = 839.87
S. INV. = 838.27
NW. INV. = 838.27

(46-46A) 210 L.F. 36" RCP C.L. III @ 0.13%

(46A) 36" PRECAST ENDSECTION WITH TRASH RACK
INV. = 838.00

(47) 2' DIA. M.H. WITH NEENAH R-1077-B FRAME TYPE OPEN LID
T/RIM = 848.00
E. INV. = 840.79
SUMP. INV. = 841.30

(47-52A) 154 L.F. 12" RCP C.L. IV @ 1.00%

(69) STA. 203+65 – LT.
2'x3' C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 845.48
S. INV. = 839.34

(69-70) 32 L.F. 12" RCP C.L. IV @ 1.00%

(70) STA. 203+65 – LT.
4' DIA. C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 845.48
N. INV. = 839.02
SW. INV. = 839.02

(70-70A) 182 L.F. 12" RCP C.L. IV @ 0.56%

(70A) 12" PRECAST END SECTION WITH TRASH RACK
INV. = 838.00

(77) 2' DIA. STORM M.H. NEENAH R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 846.00
INV. = 840.00
SUMP INV. = 841.00

(77-) ± 180 L.F. 6" PVC SDR-26 @ 1.00%
INV. @ 70-70A = ±838.20

(78) 2' DIA. STORM M.H. NEENAH R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 845.10
INV. = 840.60
SUMP INV. = 840.80

(78-) ± 90 L.F. 6" PVC SDR-26 @ 2.84%
INV. @ 43-43A = ±838.04

(79) 2' DIA. STORM M.H. NEENAH R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 845.50
INV. = 840.80
SUMP INV. = 840.80

(79-) ± 90 L.F. 6" PVC SDR-26 @ 2.84%
INV. @ 43-43A = ±838.04

(SS) 4" SUMP STUB (TYP.)

TYPICAL FOR ALL FLARED END SECTIONS
PROVIDE TOE WALL BENEATH FLARED END SECTION AND INSTALL 10 S.Y. RR-5 RIP RAP AROUND END OF FLARED END SECTION. FILL VOIDS OF RIP RAP WITH PEA ROCK MIX OF 5 BAG CONCRETE MIX.

NOTE:
ALL SUMP LINES CONNECTED TO RCP PIPE SHALL BE WITH AN INSERTA TEE AND PIPE SHALL BE NEATLY CORE-DRILLED FOR THIS PURPOSE

5:1 SIDE SLOPE SOUTH SIDE OF BERM (TYPICAL)

EXISTING CONTOUR (TYPICAL)

TOP OF BERM
ELEV. = 843.00
TOP WIDTH = 10 FT.

PROPOSED CONTOUR (TYPICAL)

PROPOSED WET RETENTION POND
VOLUME REQUIRED = 6.99 Ac. Ft.
VOLUME PROVIDED = 14.73 Ac. Ft.
NORMAL WATER ELEV. = 838.00
HIGH WATER ELEV. = 842.00

5:1 SLOPES ON THE INSIDE OF THE RETENTION POND SHALL BE STABILIZED WITH SEEDING AND EROSION CONTROL BLANKETS. ALL OTHER 5:1 SLOPES TO BE SEEDED AND MULCHED.

9/16/03– REV. STORM PER REVIEW
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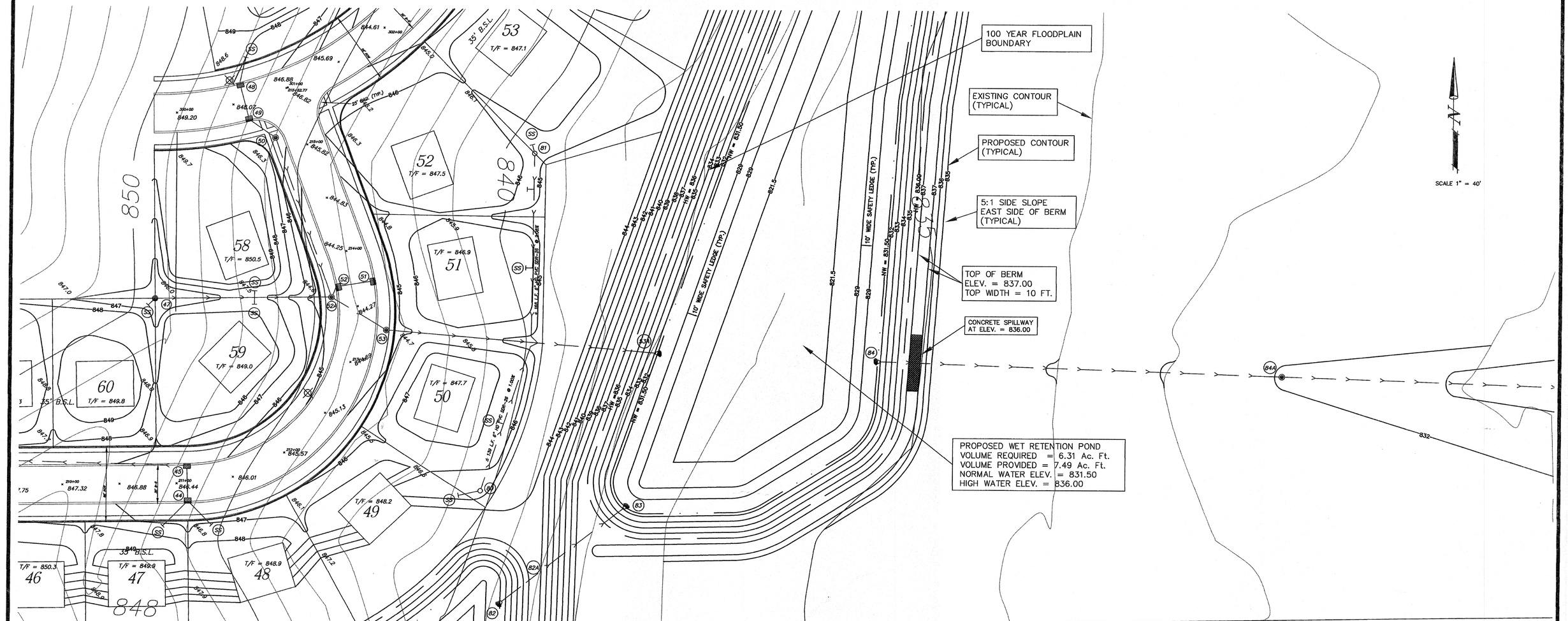
PARKSIDE ESTATES UNIT 2

DRAWN BY	DATE	SHEET
MBL	11/15/02	29
CHECKED BY KCB	DATE 11/15/02	

FILE: DS0939G1.DWG

G:\FILES\DEKALB\SYCAMORE\0939SKP\PARKSIDE2_3\plans\DS0939G1.dwg Tue Sep 16 09:41:20 2003

OVERALL GRADING PLAN



(47) 2' DIA. M.H. WITH NEENAH R-1077 B FRAME TYPE OPEN LID
T/RIM = 846.00
E. INV. = 840.79
SUMP. INV. = 841.30

(47-52A) 154 L.F. 12" RCP C.L. IV @ 1.00%

(48) STA. 300+59 – LT
2'x3' C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 847.98
SE. INV. = 842.54

(48-49) 32 L.F. 12" RCP C.L. IV @ 1.00%

(49) STA. 300+59 – RT
4' DIA. C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 847.98
NW. INV. = 842.22
SE. INV. = 842.22

(49-50) 28 L.F. 12" RCP C.L. IV @ 1.00%

(50) STA. 215+15 – 24' LT
4' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B CLOSED LID
T/RIM = 846.44
NW. INV. = 841.94
S. INV. = 841.94

(50-52A) 144 L.F. 12" RCP C.L. IV @ 1.87%

(51) STA. 213+70 – LT
2'x3' C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 844.19
W. INV. = 839.69

(51-52) 32 L.F. 12" RCP C.L. IV @ 1.00%

(52) STA. 213+70 – RT
4' DIA. C.B. WITH NEENAH R-3246 FRAME & TYPE C GRATE
T/C = 844.19
E. INV. = 839.37
SW. INV. = 839.37

(52-52A) 10 L.F. 12" RCP C.L. IV @ 1.18%

(52A) 6' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B CLOSED LID
T/RIM = 844.40
N. INV. = 839.25
W. INV. = 839.25
NE. INV. = 839.25
SE. INV. = 839.05

(52A-53) 57 L.F. 15" RCP C.L. IV @ 2.09%

(53) STA. 213+31 – 26' RT
4' DIA. STORM M.H. NEENAH R-1077 B FRAME & TYPE B CLOSED LID
T/RIM = 844.62
NW. INV. = 837.86
E. INV. = 837.66

(53-53A) 236 L.F. 18" RCP C.L. IV @ 2.61%

(53A) 18" PRECASET ENDSECTION
INV = 831.50

(80) 2' DIA. STORM M.H. NEENAH R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 845.20
INV. = 840.20

(80-) ± 139 L.F. 6" PVC SDR-26 @ 4.19%
INV. @ 53-53A = ±834.37

(81) 2' DIA. STORM M.H. NEENAH R-1077 FRAME & TYPE B CLOSED LID
T/RIM = 845.20
INV. = 840.20

(81-) ± 168 L.F. 6" PVC SDR-26 @ 3.47%
INV. @ 27A-27 = ±834.37

(82) 10" PRECAST END SECTION
INV. = 838.00

(82-82A) 29 L.F. 10" RCP C.L. IV @ 4.68%

(82A) 6' X 6' PRECAST INLET W/ OPEN TOP AND GUARDRAILS
T/INLET = 842.00
SW. INV. = 836.64
NE. INV. = 833.74

(82A-83) 112 L.F. 48" RCP C.L. IV @ 2.00%

(83) 48" PRECAST END SECTION
INV. = 831.50

(84) 21" PRECAST END SECTION
INV. = 831.50

(84-84A) 354 L.F. 21" RCP C.L. IV @ 0.76%

(84A) 4' DIA. M.H. WITH NEENAH R-1077-B FRAME & TYPE B OPEN LID
RIM = 831.90
W. INV. = 828.82
E. INV. = 828.62

(84A-85) 400 L.F. 24" RCP C.L. IV @ 0.28%

(SS) 4" SUMP STUB (TYP.)

TYPICAL FOR ALL FLARED END SECTIONS
PROVIDE TOE WALL BENEATH FLARED END SECTION AND INSTALL 10 S.Y. RR-5 RIP RAP AROUND END OF FLARED END SECTION. FILL VOIDS OF RIP RAP WITH PEA ROCK MIX OF 5 BAG CONCRETE MIX.

NOTE:
ALL SUMP LINES CONNECTED TO RCP PIPE SHALL BE WITH AN INSERTA TEE AND PIPE SHALL BE NEATLY CORE-DRILLED FOR THIS PURPOSE

9/16/03– REV. STORM PER REVIEW
7/28/03– REV. STORM PER REVIEW
7/14/03– REV. STORM PER. NEW PLAT
4/24/03– REV. STORM AND POND PER CITY REVIEW
4/2/03 – ML REV. WATER PER CITY
4/2/03 – REV. SHEET NUMBER
1/24/03 – REV. STORM PER CITY REVIEW
12/13/02 – REV. SAN. PER CITY REVIEW
11/25/02 – REV. SAN. & WATER PER CITY REVIEW

CIVIL ENGINEERING SERVICES
CES INC.
CES INC. CIVIL ENGINEERING SERVICES
700 WEST LOCUST ST., BELVIDERE, IL 61008
(815)-547-8435 FAX: (815)-544-0421

PARKSIDE ESTATES UNIT 2

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MBL	11/15/02	30
CHECKED BY KCB	DATE 11/15/02	

FILE: DS0939G1.DWG

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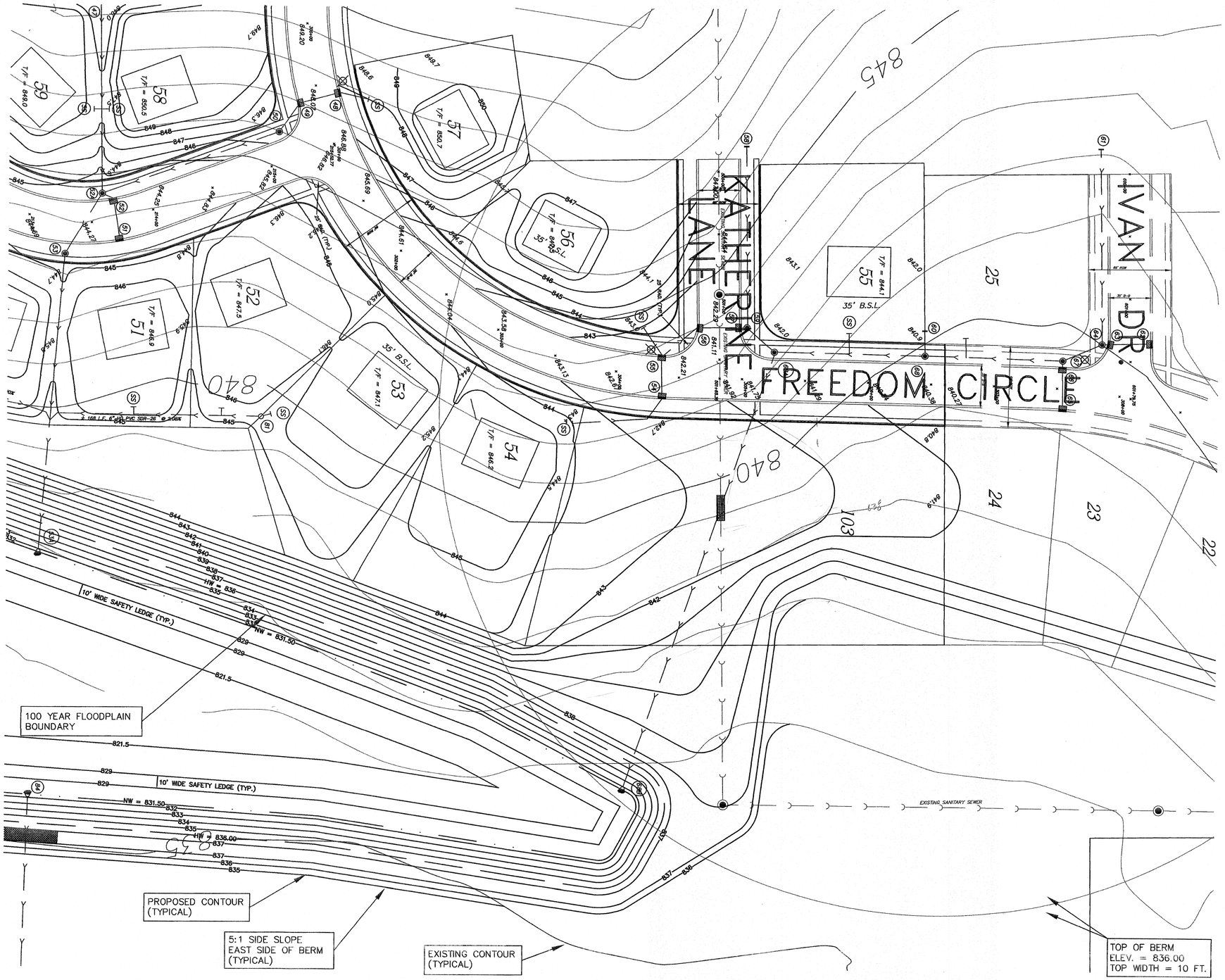
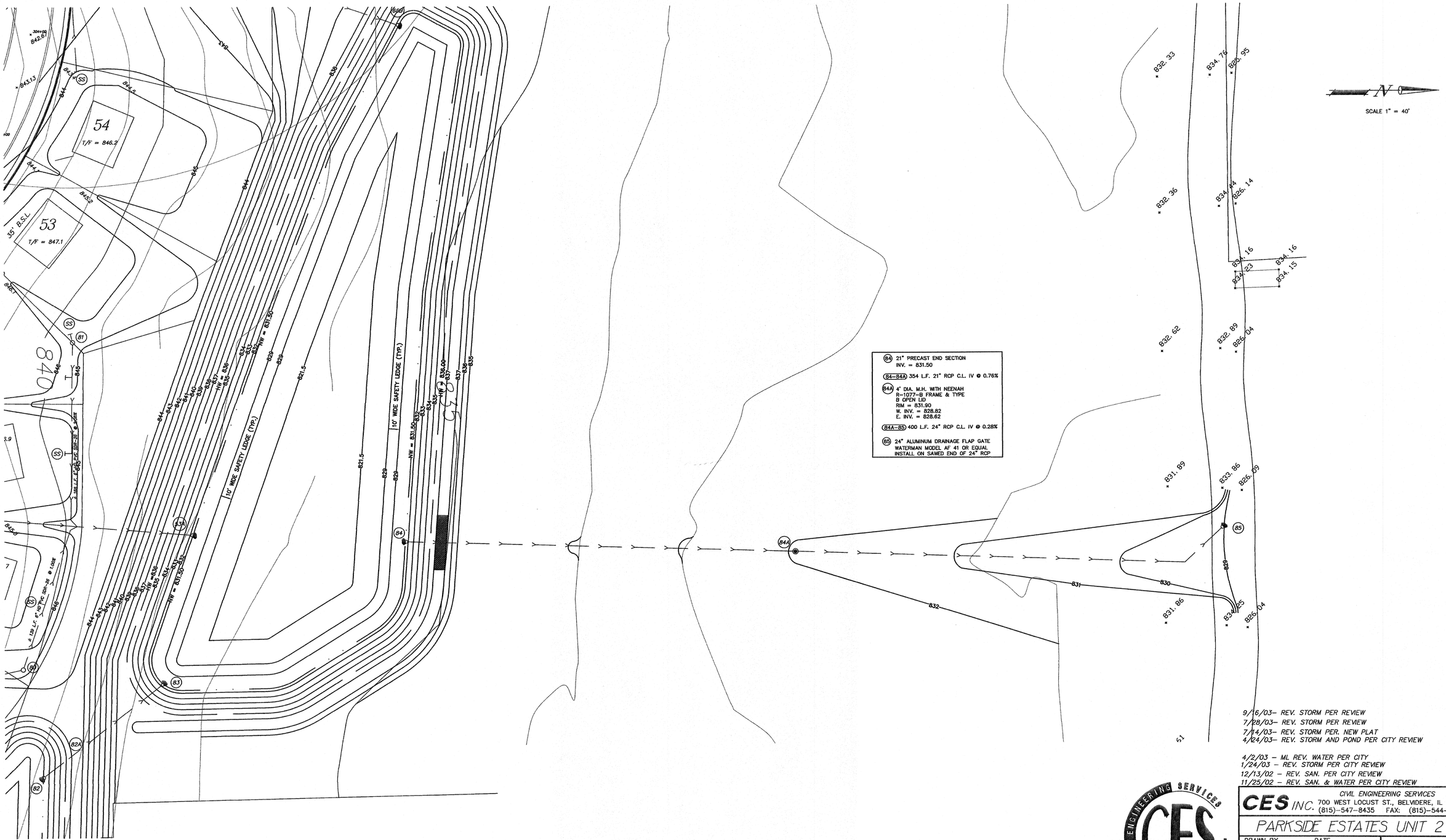
OVERALL GRADING PLAN



OVERALL GRADING PLAN



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PARKSIDE ESTATES UNIT 2

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MBL	11/15/02	32
CHECKED BY KCB	DATE 11/15/02	

FILE: DS0939G1.DWG

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