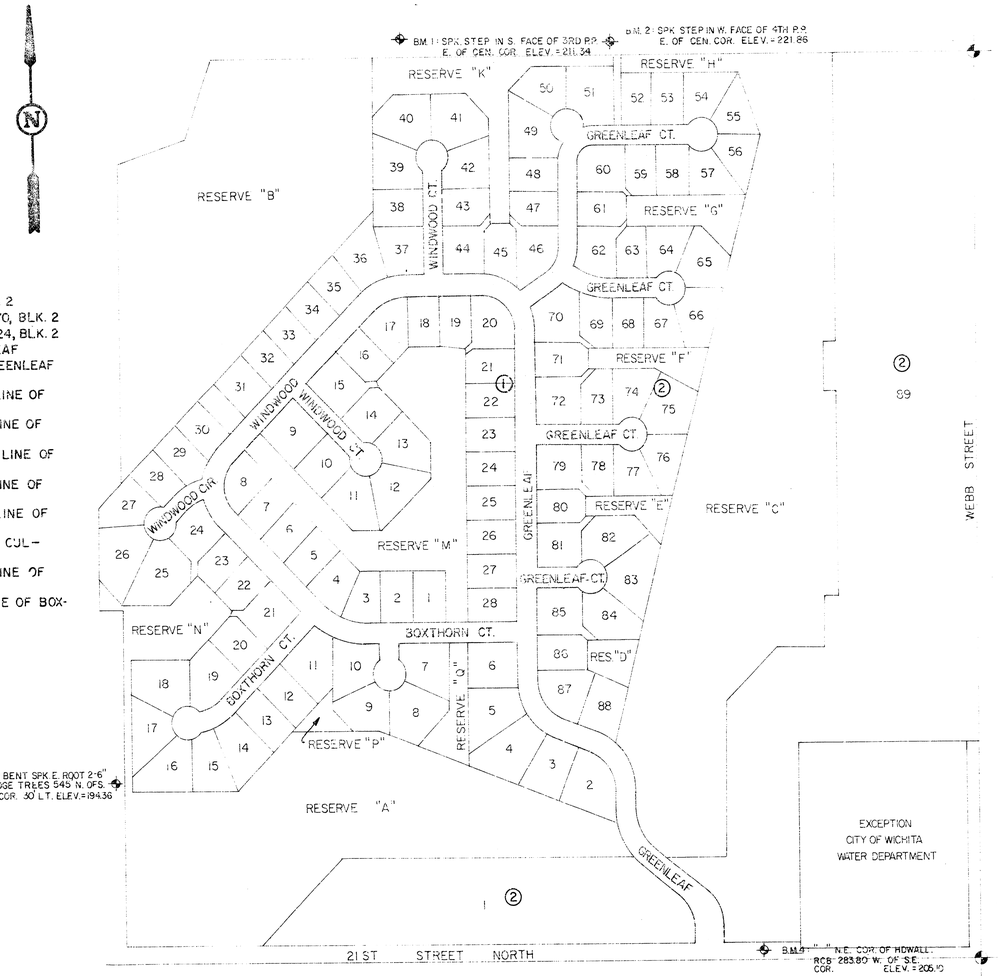
STREETS IN BLUESTEM VILLAGE ADDITION

PROJECT NO.

472-76--245-80917-000-000-001

CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, CITY ENGINEER
SEPTEMBER, 1980

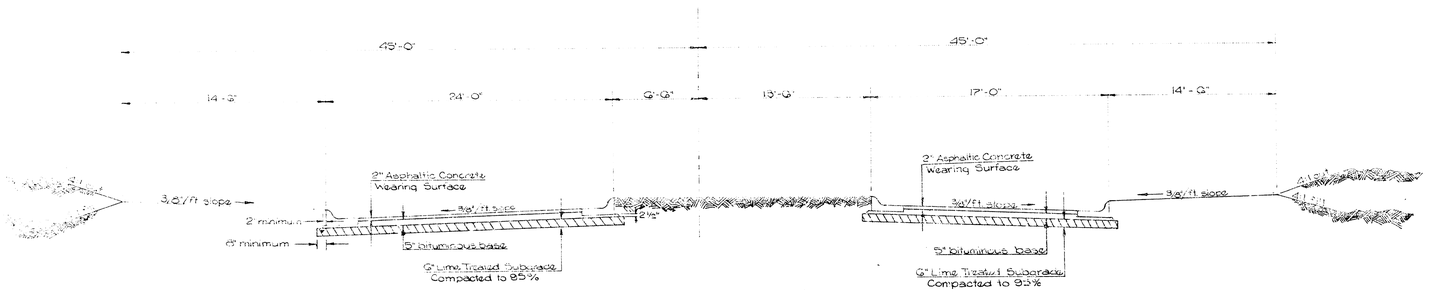


GREENLEAF FROM THE N. LINE OF 21 ST ST. N. TO THE N. LINE OF LOT 1, BLK 2
GREENLEAF FROM THE N. LINE OF LOT 1, BLK. 2, TO THE N.W. LINE OF LOT 70, BLK. 2
WINDWOOD FROM N.W. LINE OF LOT 70, BLK. 2, TO THE N.W. LINE OF LOT 24, BLK. 2
BOXTHORN FROM N.W. LINE OF LOT 24, BLK. 2, TO THE W. LINE OF GREENLEAF
GREENLEAF CT. SERVING LOTS 81 THROUGH 85 BLK. 2 FROM E. LINE OF GREENLEAF TO AND INCLUDING CUL-DE-SAC
GREENLEAF CT. SERVING LOTS 72 THROUGH 79, BLK. 2 FROM THE EAST LINE OF GREENLEAF TO AND INCLUDING CUL-DE-SAC
GREENLEAF CT. SERVING LOTS 46 THROUGH 61, BLK. 2 FROM THE N.E. LINE OF GREENLEAF TO AND INCLUDING CUL-DE-SAC
GREENLEAF CT. SERVING LOTS 62 THROUGH 70, BLK. 2, FROM THE E. LINE OF GREENLEAF CT. TO AND INCLUDING CUL-DE-SAC
WINDWOOD CT. SERVING LOTS 37 THROUGH 44, BLK. 2, FROM THE N. LINE OF WINDWOOD TO AND INCLUDING CUL-DE-SAC
WINDWOOD CT. SERVING LOTS 9 THROUGH 15, BLK. 2, FROM THE S.E. LINE OF WINDWOOD TO AND INCLUDING CUL-DE-SAC
WINDWOOD CIR. FROM THE S.W. LINE OF WINDWOOD TO AND INCLUDING CUL-DE-SAC
BOXTHORN CT. SERVING LOTS 11 THROUGH 21, BLK. 2 FROM THE S.W. LINE OF TO AND INCLUDING CUL-DE-SAC
BOXTHORN CT. SERVING LOTS 7 THROUGH 10, BLK. 2 FROM THE S. LINE OF BOXTHORN TO AND INCLUDING CUL-DE-SAC

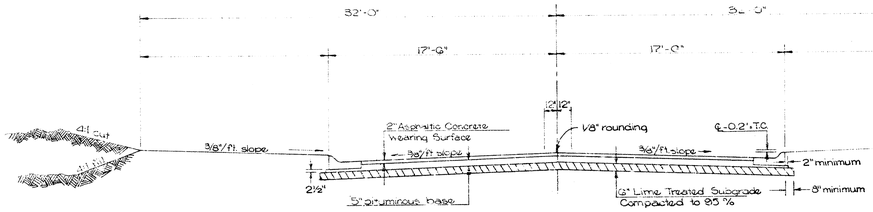
INDEX TO DRAWINGS

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

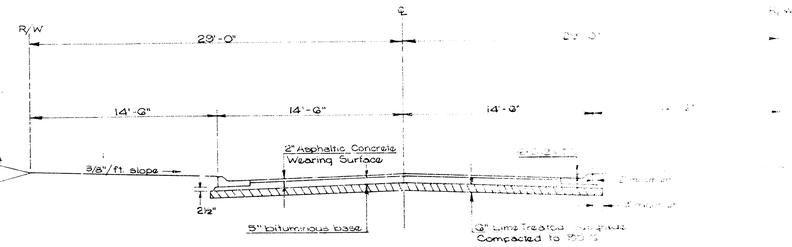
Sheet 39



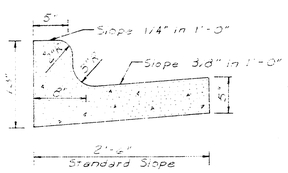
SPECIAL MEDIAN SECTION



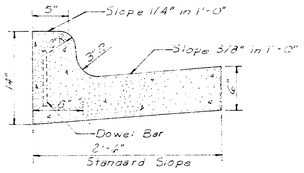
TYPICAL 35' B.B SECTION



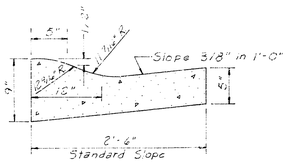
TYPICAL 29' B.B. SECTION



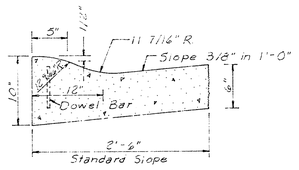
COMBINED CURB & GUTTER



STANDARD INTEGRAL CURB



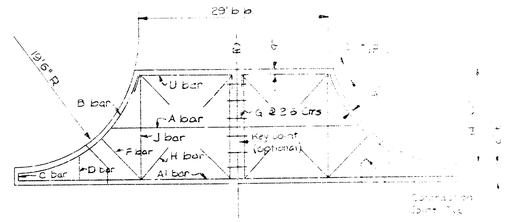
ROLL TYPE CURB & GUTTER



STANDARD INTEGRAL ROLL TYPE CURB & GUTTER

BILL OF MATERIALS

MARK	SIZE	QUAN.	LENGTH	SHAPE
A	6	1	38'-0"	
A-1	6	1	67'-0"	
B	6	2	25'-0"	
C	6	2	2'-0"	
D	6	2	4'-0"	
F	6	2	9'-0"	
G	6	6	3'-6"	
H	6	8	6'-0"	
J	6	4	15'-0"	
U	6	2	17'-6"	
TOTAL LIN. FT 352'-0"				



TYPICAL REINFORCING FOR VALLEY GUTTER
(5" CONCRETE SLAB - 2" ASPHALTIC CONCRETE BASE)

GENERAL NOTES

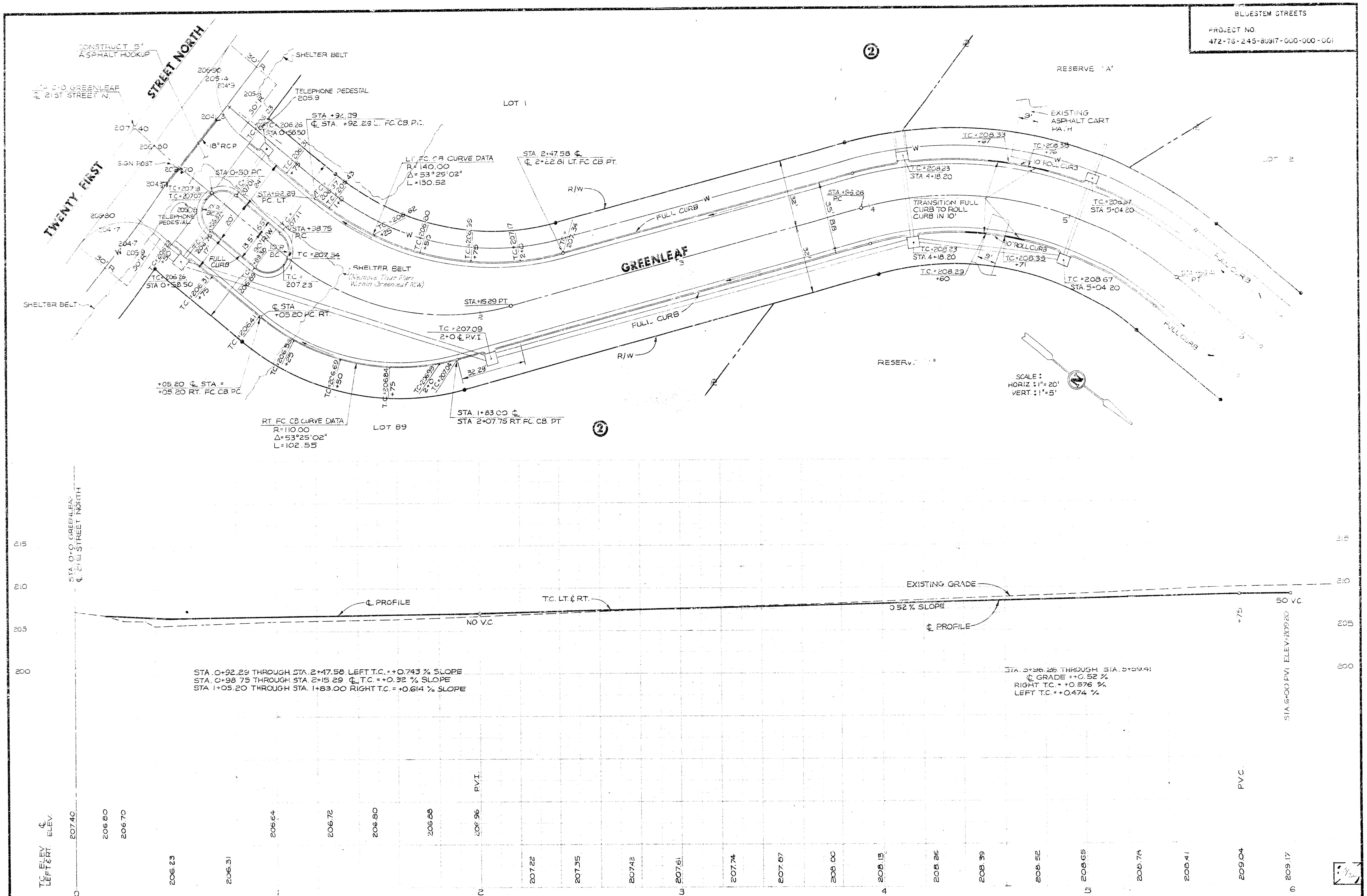
1. A Tack Coat of Emulsified Asphalt (SS - 1H) shall be applied at an approximate rate of 0.05 gallons per square yard between lifts of asphaltic materials when ordered by the engineer. Tack Coat will not be paid for directly and shall be considered as subsidiary to price bid for Asphaltic Pavement.
2. Bituminous Base and Asphaltic Concrete Wearing Surface shall be placed with a laydown machine having automatic electronic controls for crown and grade. Construction Joints in each lift shall be staggered a minimum distance of 1 foot with joints in preceding lifts and such that a joint will be constructed on the pavement centerline in the top lift.
3. The A.C. Pavement between combined curb and gutter shall be paid as square yards 7" A.C. Pavement (5" Bituminous Base). The Bituminous Base under the combined curb and gutter shall be paid as square yards 2 1/2" Bituminous Base.
4. Contraction Joints may be constructed in Integral Curb by sawing with an approved concrete saw. The saw shall extend through the curb to the pavement. Sawed Contraction Joints shall have a maximum spacing of 15 feet.
5. Integral Curb shall be tied to the pavement base with short deformed Dowel Bars spaced 2' - 6" intervals. These Dowel Bars shall not be less than 1/2" or more than 5/8" in diameter.
6. Transition Curb shall be paid as Roll- Type Combination Curb and Gutter.
7. Grades at right of ways are 0.5' above top of curb.
8. The type of subgrade treatment shall be determined by the Field Engineer. Subgrade treatment may consist of lime treatment, cement treatment, subgrade modification or any combination of these.
9. No Driveways are to be constructed as a part of this contract without authorization from Construction Chief Engineer, Wichita, Kansas.

PAVING DETAILS

Design
Drawn by
Checked by
Date
Job no.

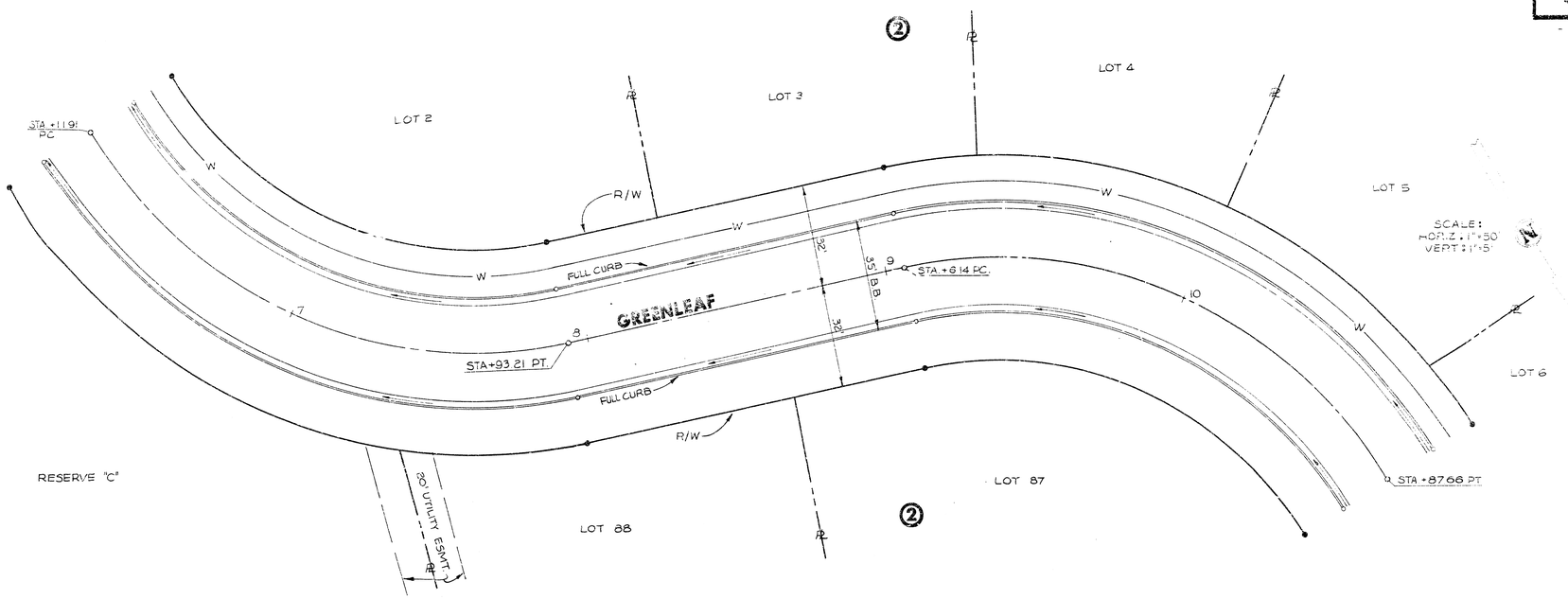
Van Doren - Hazard - Stallings
Architects • Engineers • Planners
Topeka Wichita Minneapolis

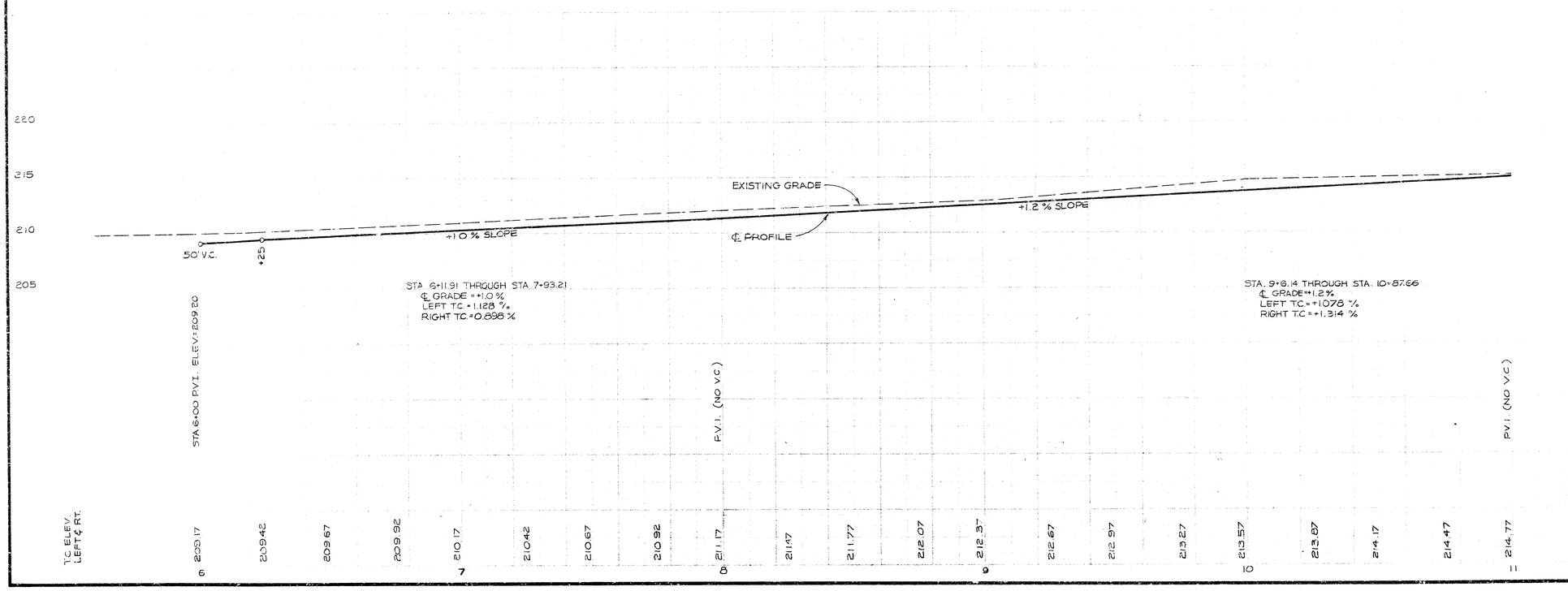
Sheet 2
of 39

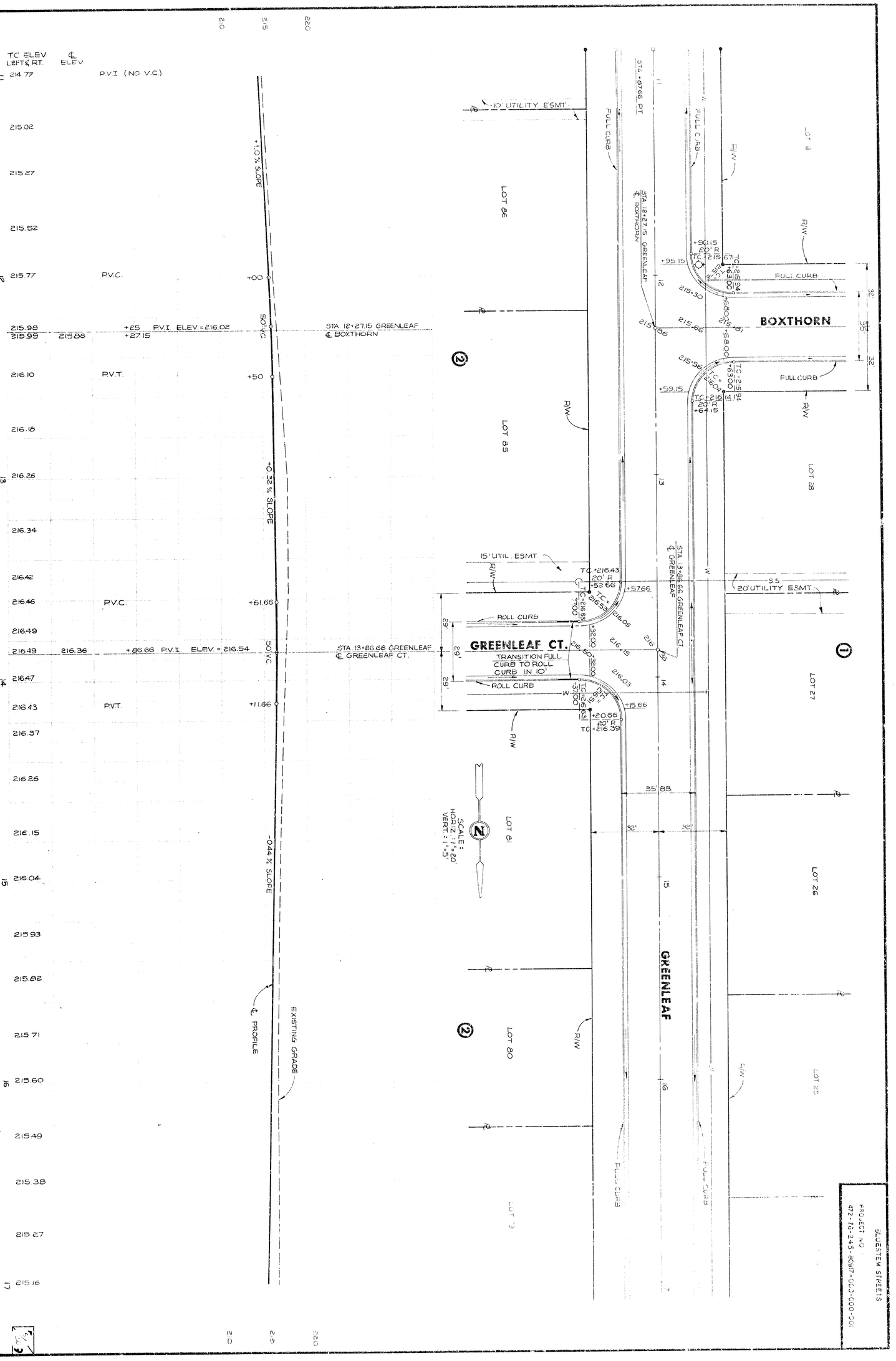

BLUESTEM STREETS
PROJECT NO.
472-76-245-80917-000-000-001
RESERVE "A"
LOT 1
LOT 2
LOT 89
RESERVE
GREENLEAF
TWENTY FIRST
STREET NORTH
SHELTER BELT
TELEPHONE PEDESTAL
205.9
CONSTRUCT 8" ASPHALT HOOKUP
18" RCP
SIGN POST
TELEPHONE PEDESTAL
FULL CURB
R/W
EXISTING ASPHALT CART PATH
TRANSITION FULL CURB TO ROLL CURB IN 10'
10' ROLL CURB
LT. FC CB CURVE DATA
R=140.00
Δ=53°25'02"
L=130.52
RT. FC CB CURVE DATA
R=110.00
Δ=53°25'02"
L=102.55
STA. 2+47.58 ℄
℄ 2+22.81 LT. FC CB PT.
STA. 1+83.00 ℄
STA 2+07.75 RT. FC CB PT
+05.20 ℄ STA. =
+05.20 RT. FC CB PC.
STA +15.29 PT.
T.C. =207.09
2+0 ℄ P.V.I.
T.C. =207.34
T.C.=208.23
STA 4+18.20
T.C.=208.67
STA 5+04.20
T.C.=208.29
SCALE:
HORIZ.: 1"=20'
VERT.: 1"=5'
EXISTING GRADE
℄ PROFILE
T.C. LT. & RT.
NO V.C.
0.52 % SLOPE
50 V.C.
P.V.I.
P.V.C.
STA. 6+00 P.V.I. ELEV. 209.20
STA. 0+0 GREENLEAF ℄ 21st STREET NORTH
STA. 0+92.29 THROUGH STA. 2+47.58 LEFT T.C. = +0.743 % SLOPE
STA. 0+98.75 THROUGH STA. 2+15.29 ℄ T.C. = +0.32 % SLOPE
STA. 1+05.20 THROUGH STA. 1+83.00 RIGHT T.C. = +0.614 % SLOPE
STA. 5+96.26 THROUGH STA. 5+59.41
℄ GRADE = +0.52 %
RIGHT T.C. = +0.576 %
LEFT T.C. = +0.474 %
T.C. ELEV. LEFT & RT.
℄ ELEV.
215
210
205
200
0
1
2
3
4
5
6

BLUESTEM STREETS

PROJECT NO
472-76-245-80917-000-000-001






TC ELEV LEFT & RT.
℄ ELEV.
214.77
P.V.I (NO V.C.)
215.02
215.27
215.52
215.77
P.V.C.
+00
215.98
215.99
215.88
+25
P.V.I ELEV.=216.02
+27.15
50' V.C.
STA 12+27.15 GREENLEAF ℄ BOXTHORN
216.10
P.V.T.
+50
216.16
216.26
216.34
216.42
216.46
P.V.C.
+61.66
216.49
216.49
216.36
+86.66
P.V.I ELEV.=216.54
50' V.C.
STA 13+86.66 GREENLEAF ℄ GREENLEAF CT.
216.47
216.43
P.V.T.
+11.66
216.37
216.26
216.15
216.04
215.93
215.82
215.71
215.60
215.49
215.38
215.27
215.16
+1.0% SLOPE
+0.32% SLOPE
-.044% SLOPE
℄ PROFILE
EXISTING GRADE
10' UTILITY ESMT.
FULL CURB
LOT 86
LOT 85
R/W
STA +87.66 PT
STA 12+27.15 GREENLEAF ℄ BOXTHORN
+90.15
20' R
TC=216.67
R=5.00
TC=216.94
63.00
+95.15
215.30
215.66
215.56
+59.15
TC=216.04
+63.00
TC=215.94
+68.00
BOXTHORN
32'
35'
LOT 6
LOT 28
LOT 27
15' UTIL. ESMT.
TC=216.43
20' R
+52.66
+57.66
55'
20' UTILITY ESMT.
STA 13+86.66 GREENLEAF CT
TC=216.53
TC=216.59
+.700
+3.00
216.05
ROLL CURB
GREENLEAF CT.
TRANSITION FULL CURB TO ROLL CURB IN 10'
216.50
+3.00
216.15
216.03
29'
W=3.00
TC=216.65
+15.66
+20.66
TC=216.39
35' BB
30'
LOT 26
LOT 25
LOT 81
LOT 80
GREENLEAF
SCALE: HORIZ.: 1"=20' VERT.: 1"=5'
BLUESTEM STREETS
PROJECT NO
472-76-245-8687-000-000-001

BLUESTEM STREETS

PROJECT NO.
412-73-245-80917-000-000-0:01

LOT 24 | LOT 23 | LOT 22 | LOT 21 | LOT 20

15' STORM SEWER ESMT | 15' UTILITY ESMT | 20' UTILITY ESMT

R/W | W | FULL CURB

STA 18+04.66 GREENLEAF
℄ GREENLEAF CT.

STA +23.32 PC

GREENLEAF

35' B.B.

+51.65 TC=214.99 | +59.65 TC=214.99 | +75.65 | +37.00 TC=215.42 | +33.66 | +42.50 TC=215.24

214.73 | 214.63 | 214.64

18 Ct.

+32.00 | +32.00

GREENLEAF CT.

TRANSITION FULL CURB TO ROLL CURB IN TO

ROLL CURB | ROLL CURB

29' | 29' | 29' | 29'

LOT 79 | LOT 72 | LOT 71 | LOT 70

① ②

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

17+50 P.V.I. ELEV.=214.94

STA. 18+04.66 GREENLEAF
℄ GREENLEAF CT.

18+79 P.V.I. ELEV.=215.34

EXISTING GRADE

-0.44 % SLOPE | +25 | 50' V.C. | +75 | +0.32 % SLOPE | +50 | 50' V.C. | +00 | ℄ PROFILE | -0.72 % SLOPE

220
215
210

P.V.C. | P.V.T. | P.V.C. | P.V.T.

	TC ELEV	℄ ELEV.
17	215.27	214.94
	215.16	
	215.05	
	214.99	
	213.02	
18	215.10	214.98
	215.18	
	215.26	
	215.28	
19	215.16	214.98
	214.80	
	214.62	
20	214.44	
	214.26	
	214.08	
	213.90	
21	213.72	
	213.54	

LEFT ERT

BLUESTEM STREETS

PROJECT NO
472-76-245-80917-000-000-001

SCALE
HORIZ : 1"=20'
VERT : 1"=5'

GREENLEAF

GREENLEAF CT.

WINDWOOD

WINDWOOD CT.

LOT 20 | LOT 19 | LOT 18 | LOT 17 | LOT 46 | LOT 45 | LOT 44 | LOT 37

STA 21+96.12 GREENLEAF ℄ GREENLEAF CT.

STA 24+76.94 WINDWOOD ℄ WINDWOOD CT.

+23.92 PC

+20.27 PT

+61.66 PC

+39.94 PT

TRANSITION FROM FULL CURB TO ROLL CURB IN 10'

TRANSITION FROM FULL CURB TO ROLL CURB IN 10'

10' UTILITY ESMT.

FULL CURB

ROLL CURB

R/W

W

-0.72 % SLOPE

-2.0 % SLOPE

-1.0 % SLOPE

EXISTING GRADE

℄ PROFILE

50' VC

22+00 P.V.I. ELEV = 213.00

26+00 P.V.I. ELEV = 205.00

P.V.C.

P.V.T.

STA. 21+23.92 THROUGH STA. 21+75.00
℄ GRADE = -0.72 %
LEFT T.C. = -0.633 %
RIGHT T.C. = +0.634 %

STA. 22+25.00 THROUGH STA. 23+20.27
℄ GRADE = -2.0 %
LEFT T.C. = -2.315 %
RIGHT T.C. = +1.761 %

STA. 26+25.00 THROUGH STA 26+99.10
℄ GRADE = -1.0 %
LEFT T.C. = -1.108 %
RIGHT T.C. = -0.912

TC ELEV ℄	LEFT & RT. ELEV.	213.54	213.36	213.18	212.97	212.82	212.50	212.00	211.50	211.00	210.50	210.00	209.50	209.00	208.50	208.00	207.50	207.33	207.00	206.50	206.00	205.50	205.06	204.75	204.50	204.25	204.00
		22							23					24					25				26				27

7/26

BLUESTEM STREETS

PROJECT NO.
472-76-245-8667-000 000-501

WINDWOOD CT.

WINDWOOD

RESERVE 'M'

RESERVE 'L'

LOT 9

LOT 15

LOT 16

LOT 17

LOT 31

LOT 32

LOT 33

LOT 34

LOT 35

R/W

FULL CURB

ROLL CURB

TRANSITION FROM FULL CURB TO ROLL CURB

10' UTILITY ESMT

SCALE
HORIZ 1" = 20'
VERT 1" = 5'

STA 30+25.61 WINDWOOD
℄ WINDWOOD CT.

+99.10 PT

EXISTING GRADE

℄ PROFILE

32+00 PVI ELEV=201.24

28+00 PVI ELEV=203.00

-1.0 % SLOPE

-.044 % SLOPE

+18 % SLOPE

50' VC

PVC

PVI

TC ELEV. LEFT & RT. ℄ ELEV

BLUESTEM STREETS

PROJECT NO.
472-76-245-80917-000-000-001

LOT 30 | LOT 8 | LOT 7 | LOT 6 | LOT 5 | LOT 29 | LOT 22 | LOT 21 | LOT 23 | LOT 24

WINDWOOD | WINDWOOD CIR. | BOXTHORN

10' UTILITY ESMT. | 10' UTILITY ESMT. | 10' UTILITY ESMT.

R/W | FULL CURB | W | ROLL CURB

33 | 34 | 35 | 36 | 37 | 38

+31.61 PC

STA. 34+29.78 WINDWOOD ℄ WINDWOOD CIR.

TC = 197.33 STA. 34+75.33 | TC = 197.33 STA. 34+83.33 | TC = 197.33 STA. 34+83.33

TC = 197.99 STA 34+03.21 | TC = 197.94 | +0.30 | 197.34 | 197.52 | +36.84 | 197.42 | +27.96 PT. | 197.19 | +39.99 | 197.44 | 197.57 | 197.42 | +62.42 | 20' R | TC = 197.33 | +54.92

TRANSITION FULL CURB TO ROLL CURB IN 10'

52' | 35' | 38' | 32'

SCALE HORIZ 1" = 20' VERT 1" = 5'

STA. 34+98.17 WINDWOOD ℄ WINDWOOD CIR.

ELEV. = 197.24

34+50 PVI

EXISTING GRADE

-1.6 % SLOPE

℄ PROFILE

+0.32 % SLOPE

+2.4 % SLOPE

37+50 PVI ELEV. = 198.20

100' V.C. | 100' V.C.

+00 | +00 | +00 | +00

205 | 200 | 195

STA. 33+31.61 THROUGH 34+00.00
℄ GRADE = -1.6 %
LEFT T.C. = -1.852 %
RIGHT T.C. = -1.408 %

STA. 35+00.00 THROUGH 35+27.96
℄ GRADE +0.32 %
LEFT T.C. = +0.37 %
RIGHT T.C. = +0.282 %

P.V.C. | P.V.T. | P.V.C. | P.V.T.

℄ ELEV. LEFT & RT	199.64	199.24	198.84	198.44	198.04	197.70	197.46	197.38	197.40	197.48	197.56	197.64	197.72	197.80	197.88	197.96	198.04	198.19	198.45	198.87	199.40	200.00	200.60	201.20
	33				34				35				36				37				38			

BLUESTEM STREETS

PROJECT NO.
472-78-245-80917-000-000-001

SCALE :
HORIZ : 1"=20'
VERT: 1"=5'

LOT 4 | LOT 3 | LOT 2 | LOT 1 | RESERVE A | LOT 28

STA 39+26.79 BOXTHORN
℄ BOXTHORN CT.

STA 41+72.69 BOXTHORN
℄ BOXTHORN CT.

10' UTILITY ESMT.

Hedge Row

Remove 44 L.F. Hedge

R/W

FULL CURB

+92.20 PT.

BOXTHORN

VALLEY GUTTER
SEE DETAIL SHT. 2

BOXTHORN CT.

LOT 11 | LOT 10 | LOT 7 | RESERVE Q | LOT 6

TRANSITION FROM FULL CURB TO ROLL CURB IN 10'

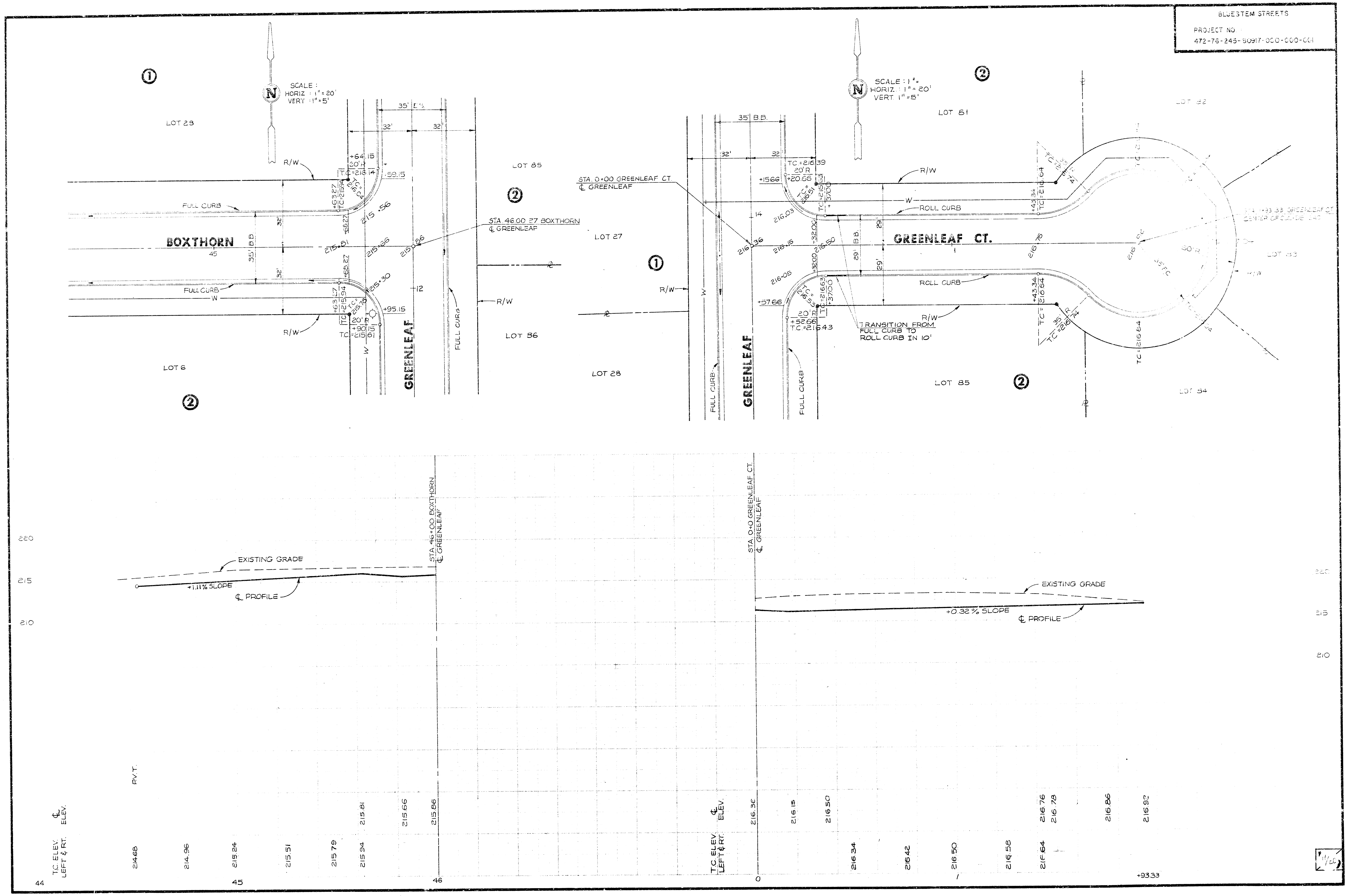
EXISTING GRADE

℄ PROFILE

+2.4 % SLOPE

STA. 39+35.12 THROUGH STA 40+92.20
℄ GRADE=+2.4 %
LEFT T.C. =+2.212 %
RIGHT T.C. =+2.623 %

	39	40	41	42	43	44
T.C. EL. LEFT & RT	201.20	201.80	202.42 (+.25) 202.44 (+.26.79) 202.31	203.00	203.60	204.20	204.80	205.40	206.00	206.60	207.20	207.80	208.34	208.40	209.00	209.60	210.20	210.80	211.40	212.00	212.60	213.20	213.80	214.40
℄ ELEV.													208.31											


BLUESTEM STREETS
PROJECT NO.
472-76-245-80917-000-000-001
SCALE :
HORIZ. : 1" = 20'
VERT : 1" = 5'
LOT 28
LOT 85
LOT 27
LOT 56
LOT 6
LOT 61
LOT 82
LOT 83
LOT 84
LOT 85
LOT 28
BOXTHORN
GREENLEAF
GREENLEAF CT.
STA. 46.00.27 BOXTHORN
℄ GREENLEAF
STA. 0+00 GREENLEAF CT.
℄ GREENLEAF
FULL CURB
ROLL CURB
R/W
TRANSITION FROM
FULL CURB TO
ROLL CURB IN 10'
35' B.B.
32'
29'
20' R
EXISTING GRADE
+1.11% SLOPE
℄ PROFILE
+0.32 % SLOPE
STA 46+00 BOXTHORN
℄ GREENLEAF
STA. 0+00 GREENLEAF CT.
℄ GREENLEAF
P.V.T.
T.C. ELEV.
LEFT & RT.
℄ ELEV.
220
215
210
44
45
46
0
+93.33

BLUESTEM STREETS

PROJECT NO
472-75-245-6097-000-000-001

GREENLEAF CT.

LOT 72 | LOT 73 | LOT 74 | LOT 75 | LOT 76 | LOT 77 | LOT 78 | LOT 79 | LOT 23

35' B.B. | 32' | 28' B.B. | R/W | W | SS | ROLL CURB | 15' UTILITY ESMT. | 15' STORM SEWER ESMT.

STA 0+00 GREENLEAF CT.
℄ GREENLEAF

TRANSITION FROM ROLL CURB TO FULL CURB IN 10'

GREENLEAF

STA 3+58.33 GREENLEAF CT
CENTER OF CULDESAC

TC=218.92

50' R | 35' F.C. | 35' R TO F.C. | TC=218.52 | TC=218.72

SCALE HORZ 1"=20'
VERT 1"=5'

N

TC ELEV. LEFT & RT

℄ ELEV.

STA 0+00 GREENLEAF CT
℄ GREENLEAF

EXISTING GRADE

+1.42 % SLOPE

℄ PROFILE

220 | 215 | 210

214.98 | 214.93 | 215.21 | 215.42 | 215.27 | 215.62 | 215.93 | 216.34 | 216.69 | 217.04 | 217.40 | 217.76 | 218.11 | 218.47 | 216.59 | 218.94 | 219.30 | 219.35

0 | 1 | 2 | 3

717

BLUESTEM STREETS

PROJECT NO.
472-76-245-80917-000-000-001

SCALE
HORIZ : 1"=20'
VERT : 1"=5'

STA 0+00 GREENLEAF CT.
℄ GREENLEAF

LOT 20

LOT 46

LOT 47

LOT 48

LOT 60

LOT 61

LOT 62

LOT 70

R/W

FULL CURB

ROLL CURB

TRANSITION FROM FULL CURB TO ROLL CURB IN 10'

GREENLEAF

GREENLEAF COURT

STA 1+21.82 PC

STA 1+68.79 GREENLEAF CT.
℄ GREENLEAF CT

STA 1+92.20
PC

STA 1+19.20
PC

STA 2+43.35
PT

VALLEY GUTTER
SEE DETAIL SHT. 2

20' UTILITY ESMT.

212.54
212.64
212.89
212.30
212.39
212.01
211.96
211.91
212.17

TC=212.35
TC=211.85

STA 0+0 GREENLEAF CT.
℄ GREENLEAF

STA 0+0 GREENLEAF CT.
℄ GREENLEAF CT.

STA 4+30 P.V.I. ELEV.= 211.52

EXISTING GRADE

℄ PROFILE

-0.32 % SLOPE

-1.2 % SLOPE

50' VC

3+75

4+25

PVC

PVT

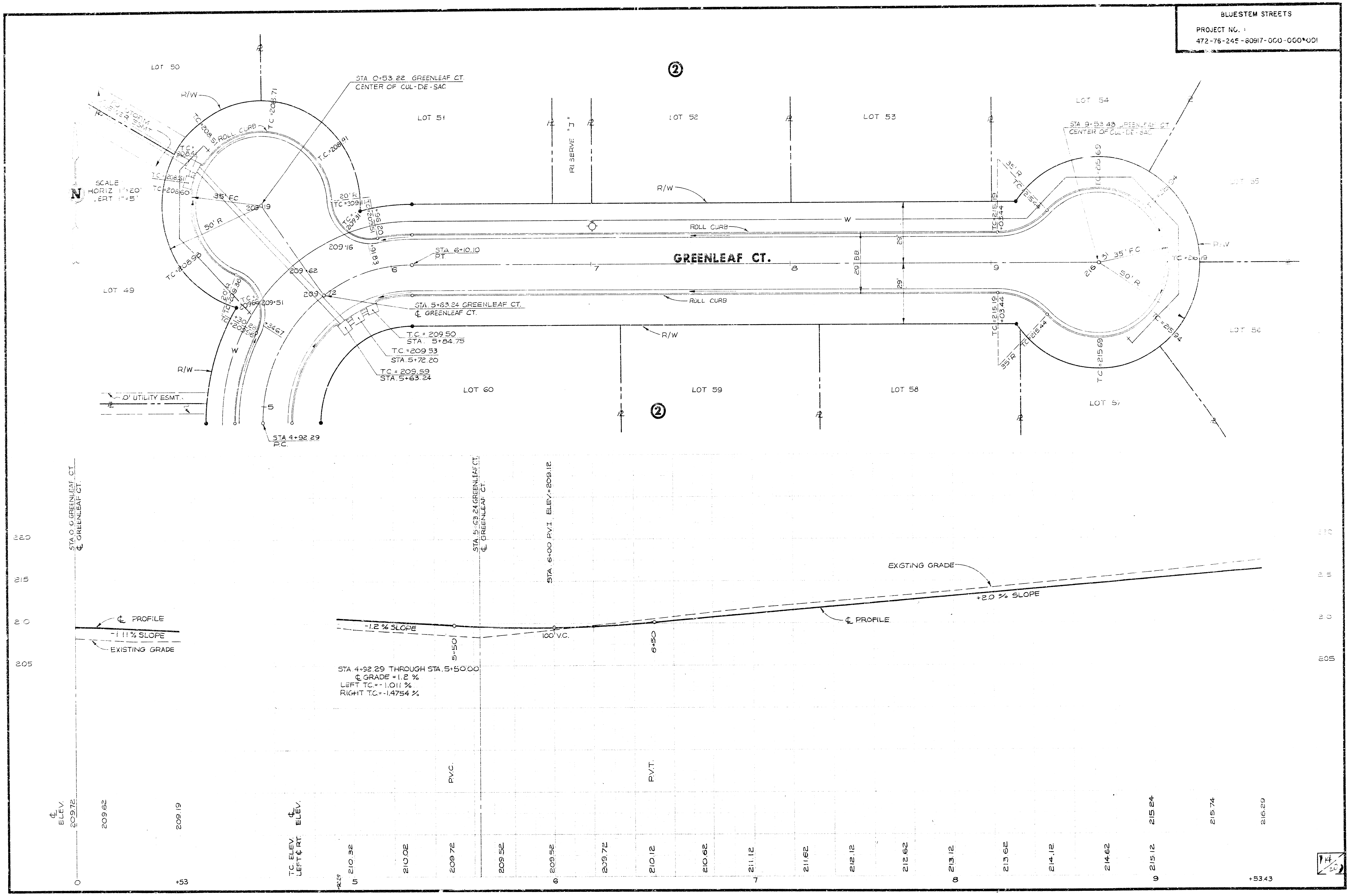
STA. 1+19.20 THROUGH STA. 2+43.35
℄ GRADE = -0.32 %
LEFT TC = -0.3604 %
RIGHT TC = -0.2878 %

TC ELEV
LEFT & RT

℄
ELEV.

212.84	212.54	212.89	213.02	212.64	212.56	212.48	212.40	212.32	212.24	212.16	212.08	212.00	211.92	211.84	211.76	211.68	211.60	211.46	211.22	210.92	210.62	210.32
0						1				2				3				4	

215
210
205


BLUESTEM STREETS
PROJECT NO. =
472-76-245-80917-000-000*001
GREENLEAF CT.
STA. 0+53.22 GREENLEAF CT.
CENTER OF CUL-DE-SAC
STA. 9+53.43 GREENLEAF CT.
CENTER OF CUL-DE-SAC
SCALE
HORIZ 1"=20'
VERT 1"=5'
LOT 49
LOT 50
LOT 51
LOT 52
LOT 53
LOT 54
LOT 55
LOT 56
LOT 57
LOT 58
LOT 59
LOT 60
RESERVE "J"
R/W
ROLL CURB
35' F.C.
50' R
STA. 6+10.10
PT
STA. 5+63.24 GREENLEAF CT.
℄ GREENLEAF CT.
T.C. = 209.50
STA. 5+84.75
T.C. = 209.53
STA. 5+72.20
T.C. = 209.59
STA. 5+63.24
STA. 4+92.29
P.C.
UTILITY ESMT.
EXISTING GRADE
℄ PROFILE
-1.11% SLOPE
-1.2% SLOPE
+2.0% SLOPE
100' V.C.
STA. 6+00 P.V.I. ELEV.=209.12
STA. 4+92.29 THROUGH STA. 5+50.00
℄ GRADE = 1.2%
LEFT T.C. = -1.011%
RIGHT T.C. = -1.4754%
P.V.C.
P.V.T.
℄ ELEV.
T.C. ELEV. LEFT & RT.
209.72
209.62
209.19
210.32
210.02
209.72
209.52
209.52
209.72
210.12
210.62
211.12
211.62
212.12
212.62
213.12
213.62
214.12
214.62
215.12
215.24
215.74
216.29
14/20

BLUESTEM STREETS

PROJECT NO.:
472-76-245-80917-000-000-001

STA 0+00 GREENLEAF CT.
℄ GREENLEAF

GREENLEAF CT.

ROLL CURB

VALLEY GUTTER
SEE DETAIL SHT. 2

STA 3+39 PC

STA 3+50.63 PRESENT END
CENTER OF COURT LEAD

STA 5+53.68 PT.

LOT 62 · LOT 63 · LOT 64 · LOT 65 · LOT 66 · LOT 67 · LOT 68 · LOT 69 · LOT 70

R/W · W · 29 B.B. · 1 · 2 · 3

TC=212.18 · TC=212.35 · TC=212.39 · TC=216.63 · TC=216.54 · TC=219.33 · TC=219.58 · TC=219.83

R=30 · R=50 · 35' F.C. · 50' R · 220.15

SCALE :
HORIZ. : 1"=20'
VERT. : 1"=5'

STA 0+0 GREENLEAF CT.
℄ GREENLEAF CT.

EXISTING GRADE

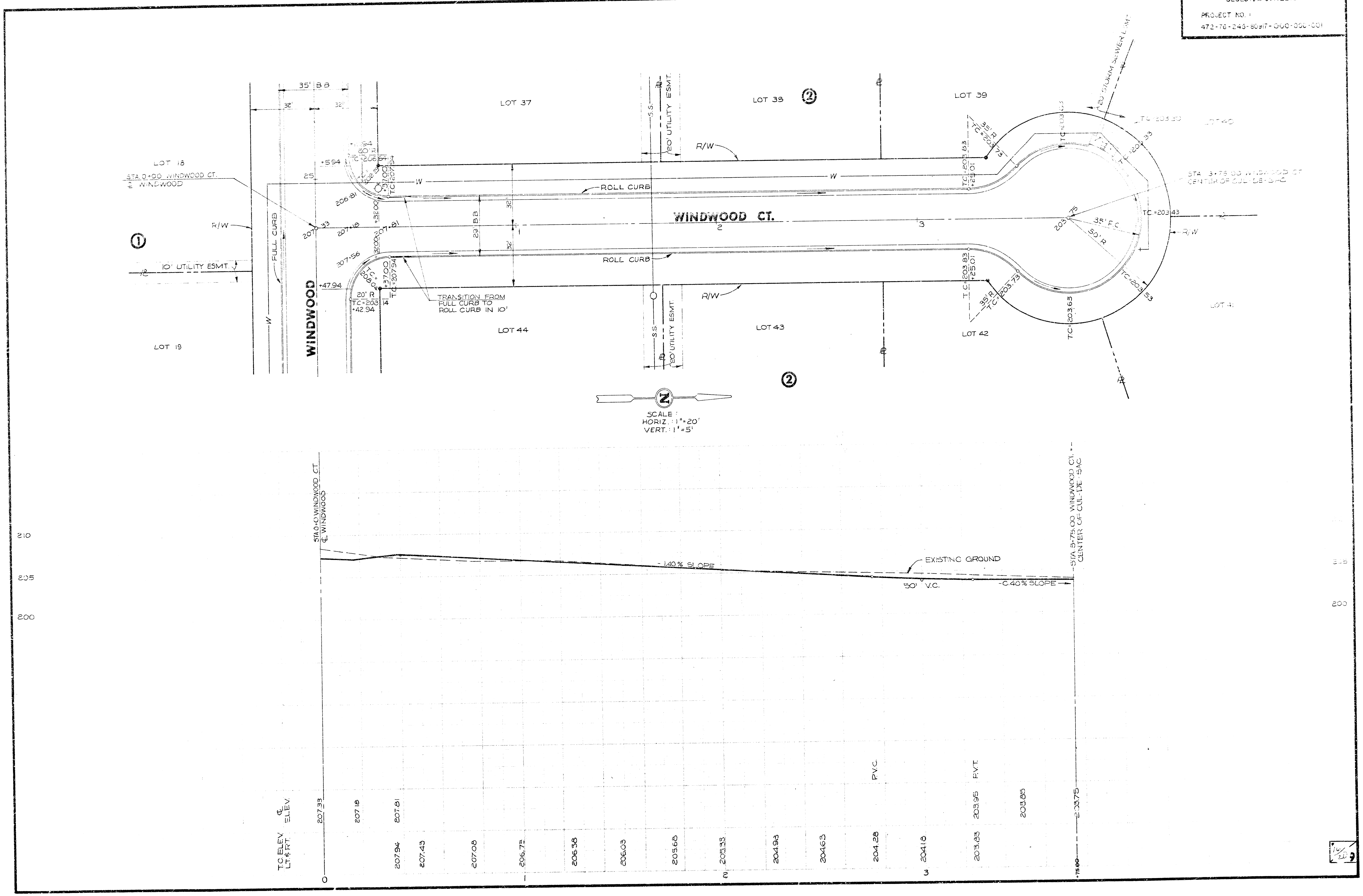
+2.4% SLOPE

℄ PROFILE

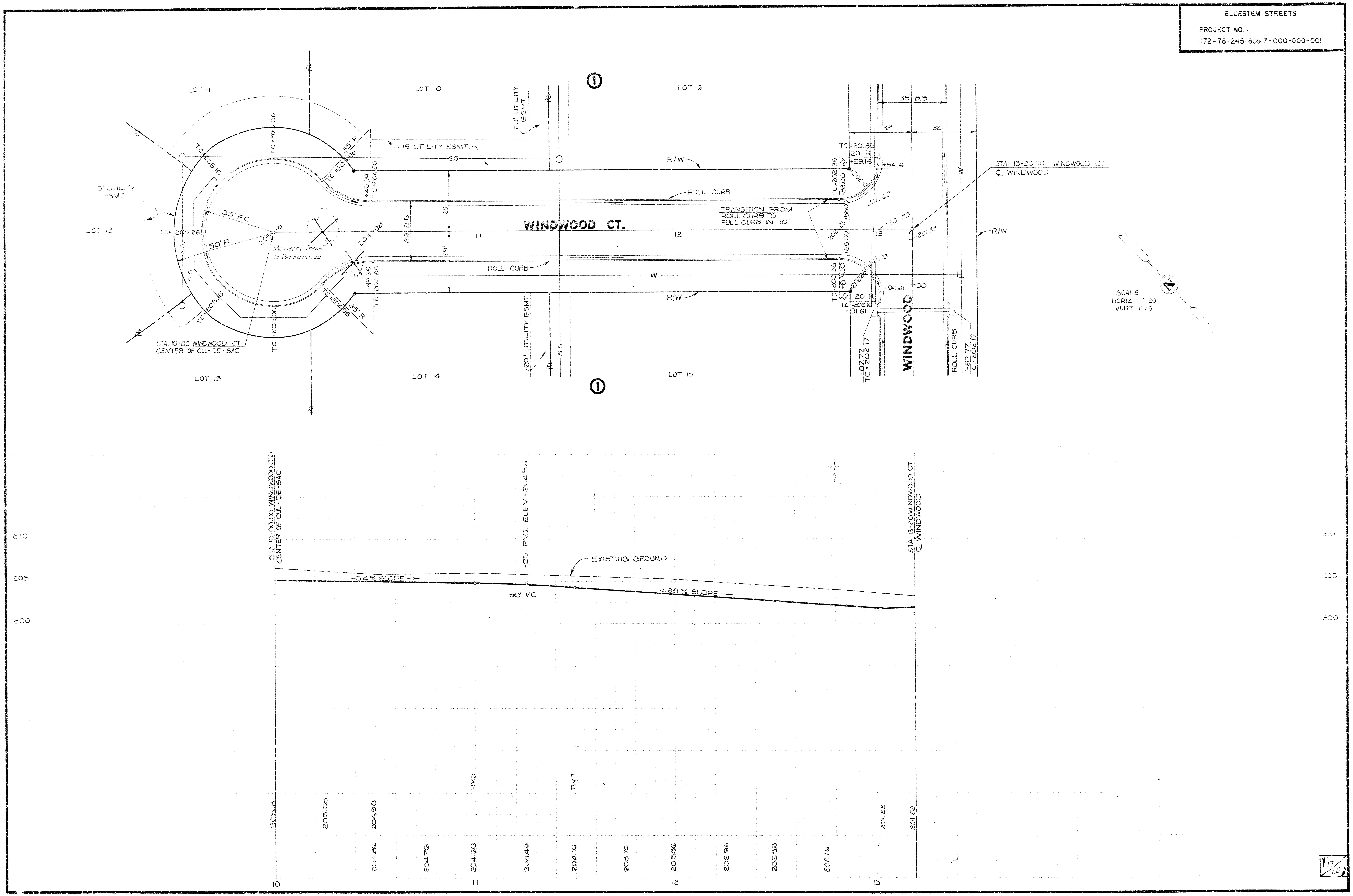
STA 0+30.32 THROUGH STA. 1+49.61
℄ GRADE = +2.4 %
LEFT T.C. = +2.5806 %
RIGHT T.C. = +2.2430 %

T.C. ELEV. LT & RT.	℄ ELEV.
0	212.39
	211.96
212.35	212.30
212.02	
213.42	
214.02	
214.62	
215.22	
215.82	
216.42	
217.02	
217.62	
218.22	
218.82	218.94
	219.54
+50.53	220.15

BLUESTEM STREETS
PROJECT NO.
472-76-243-80917-000-000-001


LOT 37
LOT 38
LOT 39
LOT 18
LOT 19
LOT 44
LOT 43
LOT 42
LOT 41
STA. 0+00 WINDWOOD CT.
℄ WINDWOOD
R/W
FULL CURB
10' UTILITY ESMT.
WINDWOOD
ROLL CURB
WINDWOOD CT.
20' UTILITY ESMT.
TRANSITION FROM
FULL CURB TO
ROLL CURB IN 10'
20' STORM SEWER ESMT.
35' F.C.
50' R
SCALE:
HORIZ.: 1"=20'
VERT.: 1"=5'
STA. 0+00 WINDWOOD CT.
℄ WINDWOOD
STA. 3+75.00 WINDWOOD CT.
CENTER OF CUL-DE-SAC
EXISTING GROUND
-1.40% SLOPE
50' V.C.
-0.40% SLOPE
P.V.C.
P.V.T.
℄ ELEV.
T.C. ELEV. LT & RT.
210
205
200
207.33
207.18
207.81
203.95
203.85
203.75
207.94
207.43
207.08
206.73
206.38
206.03
205.68
205.33
204.98
204.63
204.28
204.18
203.83
0
1
2
3

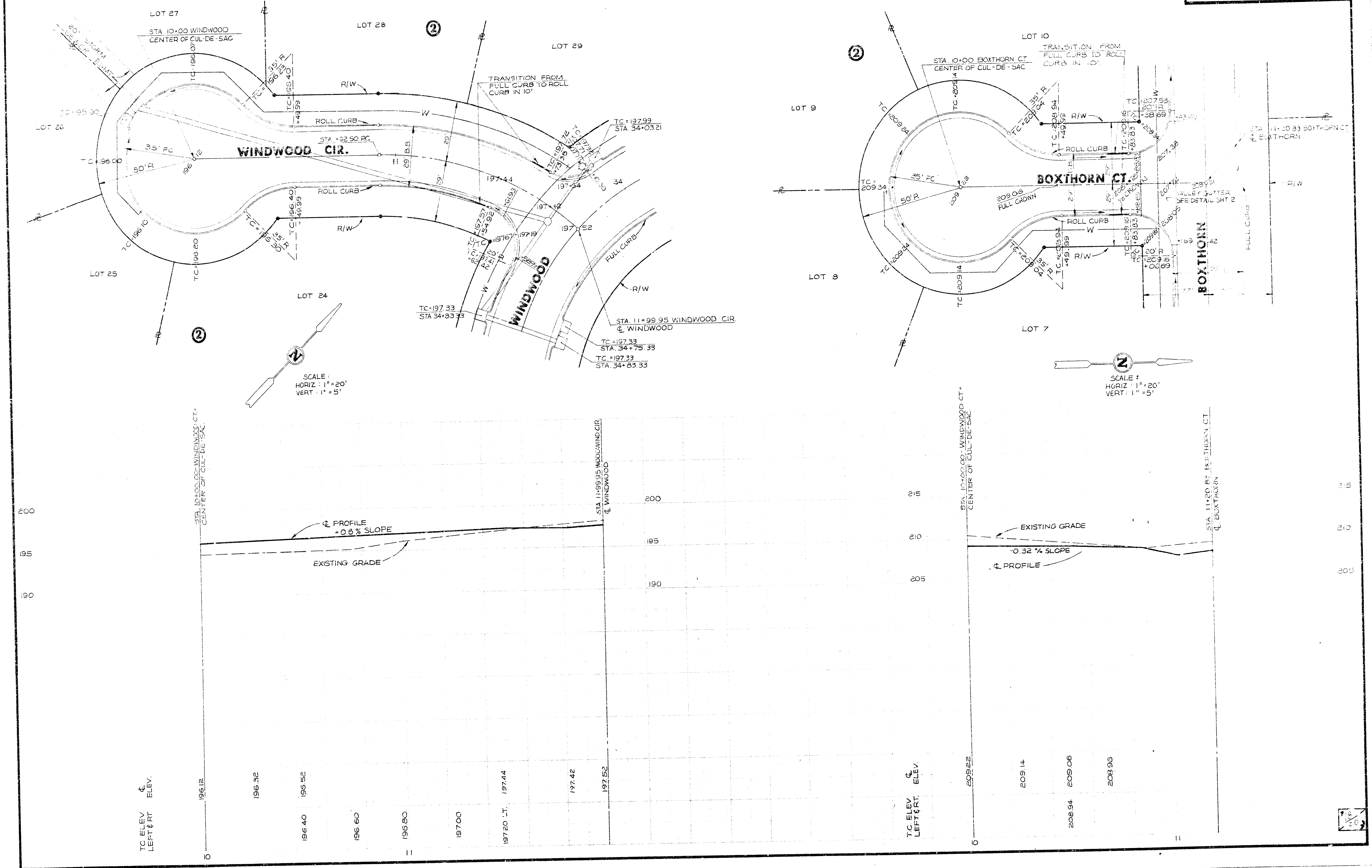
16/20

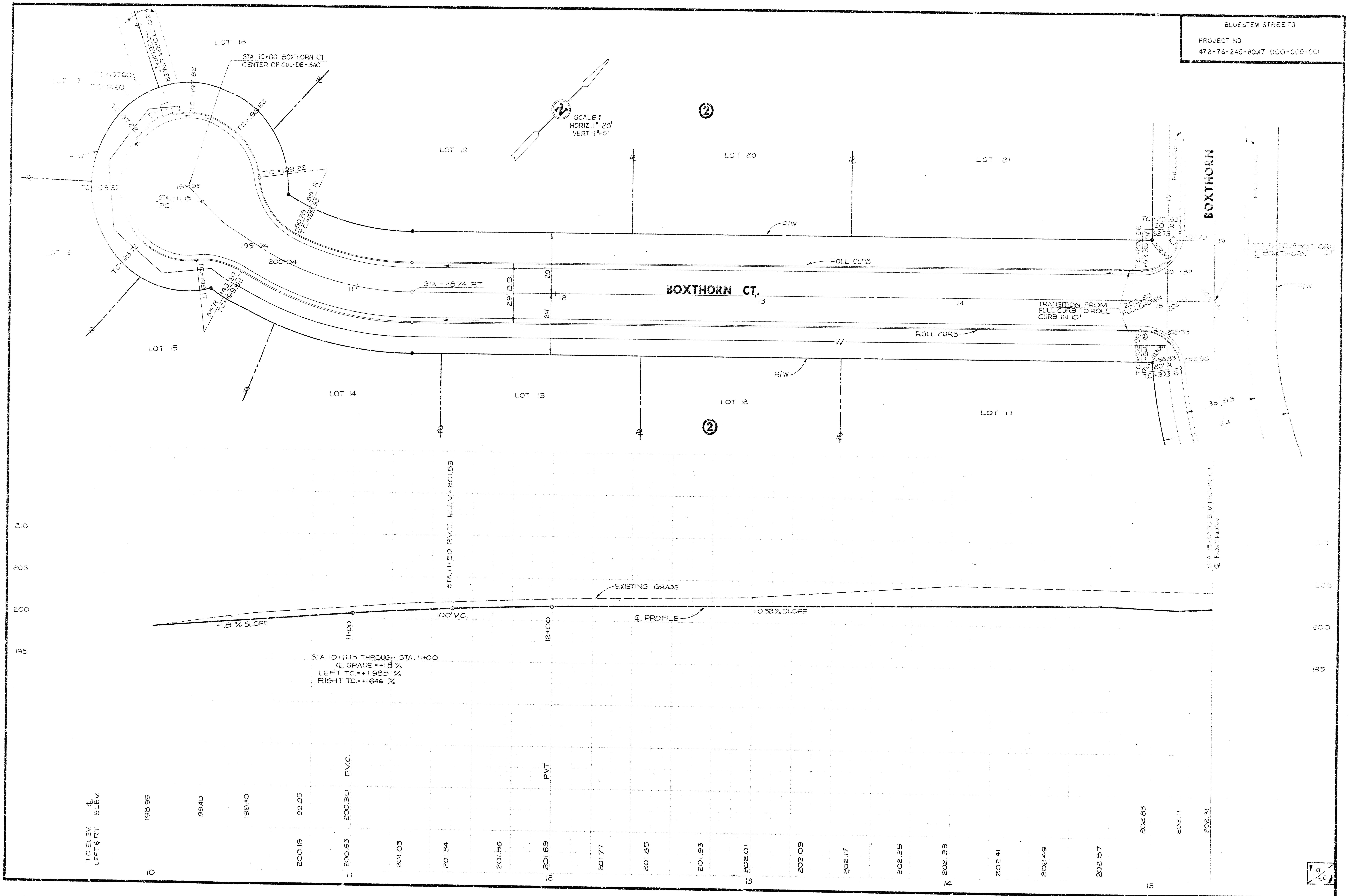


BLUESTEM STREETS
PROJECT NO. -
472-76-245-80917-000-000-001
LOT 9
LOT 10
LOT 11
LOT 12
LOT 13
LOT 14
LOT 15
WINDWOOD CT.
WINDWOOD
15' UTILITY ESMT.
20' UTILITY ESMT.
R/W
ROLL CURB
TRANSITION FROM ROLL CURB TO FULL CURB IN 10'
35' F.C.
50' R.
35' R.
Mulberry Trees To Be Removed
STA 10+00 WINDWOOD CT. CENTER OF CUL-DE-SAC
STA 13+20.00 WINDWOOD CT. ℄ WINDWOOD
SCALE: HORIZ 1"=20' VERT 1"=5'
STA 10+00.00 WINDWOOD CT. CENTER OF CUL-DE-SAC
+25 PVI ELEV 204.56
STA 13+20 WINDWOOD CT. ℄ WINDWOOD
EXISTING GROUND
-0.4% SLOPE
-1.60% SLOPE
50' V.C.
P.V.C.
P.V.T.
210
205
200

BLUESTEM STREETS

PROJECT NO. :
472-76-245-80917-000-000-001





BLUESTEM STREETS
PROJECT NO
472-76-243-80117-000-000-001
SCALE:
HORIZ. 1"=20'
VERT. 1"=5'
STA. 10+00 BOXTHORN CT.
CENTER OF CUL-DE-SAC
STORM SEWER EASEMENT
LOT 18
LOT 19
LOT 20
LOT 21
LOT 16
LOT 15
LOT 14
LOT 13
LOT 12
LOT 11
BOXTHORN CT.
BOXTHORN
STA. +28.74 P.T.
R/W
ROLL CURB
TRANSITION FROM FULL CURB TO ROLL CURB IN 10'
FULL CROWN
STA. 11+50 P.V.I. ELEV = 201.53
EXISTING GRADE
℄ PROFILE
+1.8 % SLOPE
+0.32 % SLOPE
100' V.C.
11+00
12+00
STA. 10+11.13 THROUGH STA. 11+00
℄ GRADE = -1.8 %
LEFT T.C. = +1.985 %
RIGHT T.C. = +1.646 %
P.V.C.
P.V.T.
T.C. ELEV LEFT ℄ RT
℄ ELEV
198.95
199.40
199.40
199.85
200.30
200.18
200.63
201.03
201.34
201.56
201.69
201.77
201.85
201.93
202.01
202.09
202.17
202.25
202.33
202.41
202.49
202.57
202.83
202.11
202.31
210
205
200
195
10
11
12
13
14
15

LOCATION: Greenleaf
SEE PAGE: 3

CURVE DATA BASED ON 125.00' R. (CL.)

Δ/2 = 26° 42' 31"

DEFLECTION IN MIN./FT. = 13.7508

CL. Station	CL. Arc	CL. Chord	Deflection	Total Deflection
[illegible]				
[illegible]	26.23	26.20	6° 00' 57"	6° 00' 57"
[illegible]	25.00	24.96	5° 43' 17"	11° 44' 17"
[illegible]	25.00	24.96	5° 43' 40"	17° 28' 30"
[illegible]	25.00	24.96	5° 43' 46"	23° 12' 16"
[illegible]	15.25	15.28	3° 30' 15"	26° 42' 31"

LOCATION: Greenleaf
SEE PAGE: 3

CURVE DATA BASED ON 175.00' R. (CL.)

Δ/2 = 26° 42' 30"

DEFLECTION IN MIN./FT. = 9.822134

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
3 + 96.26					
4 + 00.00	3.74	4.28	3.21	0° 36' 45"	0° 36' 45"
4 + 25.00	25.00	28.55	21.41	4° 05' 33"	4° 42' 18"
4 + 50.00	25.00	28.55	21.41	4° 05' 33"	8° 47' 51"
[illegible]	25.00	28.55	21.41	4° 05' 33"	12° 53' 24"
[illegible]	25.00	28.55	21.41	4° 05' 33"	16° 58' 57"
5 + 25.00	25.00	28.55	21.41	4° 05' 33"	21° 04' 30"
[illegible]	25.00	28.55	21.41	4° 05' 33"	25° 10' 03"
5 + 59.41	9.41	10.76	[illegible]	1° 32' 27"	26° 42' 30"

LOCATION: Greenleaf
SEE PAGE: 4

CURVE DATA BASED ON 150.00' R. (CL.)

Δ/2 = 34° 37' 32"

DEFLECTION IN MIN./FT. = 11.459156

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
[illegible] + 11.91					
[illegible]	13.09	10.90	15.27	2° 29' 59"	2° 29' 59"
[illegible]	25.00	20.81	29.13	4° 46' 29"	7° 16' 28"
[illegible]	25.00	20.81	29.13	4° 46' 29"	12° 02' 57"
[illegible]	25.00	20.81	29.13	4° 46' 29"	16° 49' 26"
[illegible]	25.00	20.81	29.13	4° 46' 29"	21° 35' 55"
[illegible]	25.00	20.81	29.13	4° 46' 29"	26° 22' 24"
[illegible]	25.00	20.81	29.13	4° 46' 29"	31° 08' 53"
[illegible]	18.21	15.17	21.25	3° 28' 39"	34° 37' 32"

LOCATION: Greenleaf
SEE PAGE: 4

CURVE DATA BASED ON [illegible]

Δ/2 = 34° 40' [illegible]

DEFLECTION IN MIN./FT. = [illegible]

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
9 + [illegible]					
9 + 25.00	18.86	21.99	[illegible]	[illegible]	[illegible]
9 + 50.00	25.00	29.13	20.81	[illegible]	[illegible]
9 + 75.00	25.00	29.13	20.81	[illegible]	[illegible]
10 + 00.00	25.00	29.13	20.81	[illegible]	[illegible]
10 + 25.00	25.00	29.13	20.81	[illegible]	[illegible]
10 + 50.00	25.00	29.13	20.81	[illegible]	[illegible]
10 + 75.00	25.00	29.13	20.81	[illegible]	[illegible]
10 + 87.66	12.66	14.77	[illegible]	[illegible]	[illegible]

LOCATION: Greenleaf
SEE PAGE: 3

CURVE DATA BASED ON 110.00' R. (Rt. F. C.)

Δ/2 = 26° 42' 31"

DEFLECTION IN MIN./FT. = 15.6267

CL. Station	Rt. F. C. Station	Rt. F. C. Arc	Chord Length 8' Off-set Rt. F. C.	Deflection	Total Deflection
1 + 05.20	1 + 05.20				
	1 + 25.00	19.80	21.21	5° 09' 25"	5° 09' 25"
	1 + 50.00	25.00	26.76	6° 30' 40"	11° 40' 05"
	1 + 75.00	25.00	26.76	6° 30' 40"	18° 10' 45"
	2 + 00.00	25.00	26.76	6° 30' 40"	24° 41' 25"
1 + 85.00	2 + 07.75	7.75	8.31	2° 01' 06"	26° 42' 31"

LOCATION: Windwood
SEE PAGE: 7

CURVE DATA BASED ON 175.00' R. (CL.)

Δ/2 = 22° 30' 00"

DEFLECTION IN MIN./FT = 9.822134

CL. Station	CL. Arc.	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
25 + 61.66					
25 + 75	13.34	11.15	15.24	2° 11' 02"	2° 11' 03"
26 + 00	25.00	21.41	28.55	4° 05' 34"	6° 16' 35"
26 + 25	[illegible]	21.41	28.55	4° 05' 34"	10° 22' 08"
26 + 50	[illegible]	[illegible]	28.55	4° 05' 34"	14° 27' 41"
26 + 75	[illegible]	[illegible]	28.55	4° 05' 34"	18° 33' 14"
26 + [illegible]	[illegible]	[illegible]	27.52	3° 56' 13"	22° 30' 00"

LOCATION: Windwood
SEE PAGE: 9

CURVE DATA BASED ON 125.00' R. (CL.)

Δ/2 = 45° 00' 00"

DEFLECTION IN MIN./FT. = 13.7509872

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
33 + 31.61					
33 + 50.00	18.39	14.70	22.05	4° 12' 53"	4° 12' 53"
33 + 75.00	25.00	19.97	29.95	5° 43' 46"	9° 56' 39"
34 + 00.00	25.00	19.97	29.95	5° 43' 45"	15° 40' 26"
34 + 07.71	7.71	6.17	9.25	1° 46' 01"	17° 26' 27"
34 + 25.00	17.29	13.82	20.73	3° 57' 45"	21° 24' 12"
34 + 29.78	4.78	3.82	5.74	1° 05' 44"	22° 29' 56"
34 + 50.00	20.22	16.16	24.24	4° 38' 03"	27° 07' 59"
34 + 62.42	12.42	9.93	14.90	2° 50' 47"	29° 58' 46"
34 + 75.00	12.58	10.06	15.09	2° 52' 59"	32° 51' 45"
35 + 00.00	25.00	19.97	29.95	5° 43' 46"	38° 35' 31"
35 + 25.00	25.00	19.97	29.95	5° 43' 45"	44° 19' 18"
35 + 27.96	2.96	2.37	3.55	0° 40' 42"	45° 00' 00"

LOCATION: [illegible]
SEE PAGE: 7

CURVE DATA BASED ON 125.00' R. [illegible]

Δ/2 = 45° 00' 00"

DEFLECTION IN MIN./FT. = 13.7509872

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
21 + 23.92					
21 + 25.00	1.08	[illegible]	[illegible]	[illegible]	[illegible]
21 + 50.00	25.00	19.97	[illegible]	[illegible]	[illegible]
21 + 69.69	19.69	15.71	[illegible]	[illegible]	[illegible]
21 + 75.00	5.31	4.25	[illegible]	[illegible]	[illegible]
21 + 96.12	21.12	16.88	[illegible]	[illegible]	[illegible]
22 + 00.00	3.88	3.10	[illegible]	[illegible]	[illegible]
22 + 22.55	22.55	18.02	[illegible]	[illegible]	[illegible]
22 + 50.00	27.45	21.92	32.87	[illegible]	[illegible]
22 + 75.00	25.00	19.97	[illegible]	[illegible]	[illegible]
23 + 00.00	25.00	19.97	[illegible]	[illegible]	[illegible]
23 + 20.27	20.27	[illegible]	[illegible]	[illegible]	[illegible]

LOCATION: Greenleaf
SEE PAGE: 3

CURVE DATA BASED ON 140.00' R. (Lt. F. C.)

Δ/2 + 26° 42' 31"

DEFLECTION IN MIN./FT. + 12.2777

CL. Station	Lt. F. C. Station	Lt. F. C. Arc	Chord Length 8' Off-set Lt. F. C.	Deflection	Deflection
[illegible]	0 + 92.29				
	1 + 00.00	7.71	7.27	1° 34' 40"	1° 34' 40"
	1 + 25.00	25.00	25.54	5° 06' 57"	6° 41' 37"
	1 + 50.00	25.00	25.54	5° 06' 57"	11° 48' 34"
	1 + 75.00	25.00	25.54	5° 06' 57"	16° 55' 31"
	2 + 00.00	25.00	25.54	5° 06' 56"	22° 02' 27"
2 + 17.58	2 + 22.81	22.81	21.18	4° 40' 04"	26° 42' 31"

LOCATION: Greenleaf Ct.
SEE PAGE: 14

CURVE DATA BASED ON 75.00' R. (CL.)

Δ/2 + 45° 00' 00"

DEFLECTION IN MIN./FT. = 22.91825821

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
4 + 92.29					
5 + 00.00	7.71	9.97	5.45	2° 56' 42"	2° 56' 42"
5 + 25.00	25.00	32.18	17.58	9° 32' 56"	12° 29' 38"
5 + 30.28	5.28	6.83	3.73	2° 01' 02"	14° 30' 40"
5 + 50.00	19.72	25.43	13.89	7° 31' 54"	22° 02' 34"
5 + 63.24	13.24	17.10	9.34	5° 03' 26"	27° 06' 00"
5 + 75.00	11.76	15.19	8.30	4° 29' 30"	31° 35' 30"
5 + 96.20	21.20	27.33	14.93	8° 05' 56"	39° 41' 26"
6 + 00.00	3.80	4.91	2.68	1° 27' 06"	41° 08' 32"
6 + 10.10	10.10	13.05	7.13	3° 51' 28"	45° 00' 00"

LOCATION: Windwood Circle
SEE PAGE 18

CURVE DATA BASED ON 150.00' R. (CL.)

Δ/2 + 20° 51' 14"

DEFLECTION IN MIN./FT. = 11.45866294

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
10 + 92.50					
11 + 00.00	7.50	8.60	6.40	1° 25' 56"	1° 25' 56"
11 + 25.00	25.00	28.65	21.31	4° 46' 28"	6° 12' 24"
11 + 50.00	25.00	28.65	21.31	4° 46' 28"	10° 58' 52"
11 + 54.92	4.92	5.64	4.20	0° 56' 23"	11° 55' 15"
11 + 73.38	18.46	21.15	15.74	3° 31' 32"	15° 26' 47"
11 + 99.95	26.57	30.45	22.64	5° 04' 27"	20° 31' 14"

LOCATION: Boxthorn
SEE PAGE: 10

CURVE DATA BASED ON 200.00' R. [illegible]

Δ/2 = 22° 30' 00"

DEFLECTION IN MIN./FT. = [illegible]

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
39 + 35.12					
39 + 50.00	14.88	15.02	[illegible]	[illegible]	[illegible]
39 + 56.83	6.83	5.98	7.68	[illegible]	[illegible]
39 + 75.00	18.17	15.89	20.45	[illegible]	[illegible]
40 + 00.00	25.00	21.86	28.11	3° 34' 52"	9° 17' 36"
40 + 25.00	25.00	21.86	28.11	3° 34' 52"	12° 52' 28"
40 + 50.00	25.00	21.86	28.11	3° 34' 52"	[illegible]
40 + 75.00	25.00	21.86	28.11	3° 34' 52"	[illegible]
40 + 92.20	17.20	15.05	19.34	2° 27' 48"	[illegible]

LOCATION: Greenleaf Court
SEE PAGE: 13

CURVE DATA BASED ON 125.00' R. (CL.)

Δ/2 = 28° 27' 08"

DEFLECTION IN MIN./FT. = 13.75057055

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
1 + 19.20					
1 + 25.82	6.62	5.45	7.78	1° 31' 02"	1° 31' 02"
1 + 41.85	16.03	15.20	18.84	3° 40' 25"	5° 11' 27"
1 + 50.00	8.15	6.72	9.58	1° 52' 05"	7° 03' 32"
1 + 68.79	18.79	15.47	22.08	4° 18' 22"	11° 21' 54"
1 + 75.00	6.21	5.12	7.30	1° 25' 23"	12° 47' 17"
1 + 95.73	20.73	17.06	24.35	4° 45' 03"	17° 32' 20"
2 + 00.00	4.27	3.52	5.02	0° 58' 43"	18° 31' 03"
2 + 25.00	25.00	20.57	29.35	5° 43' 46"	24° 14' 49"
2 + 43.35	18.35	15.11	21.56	4° 12' 19"	28° 27' 08"

LOCATION: Boxthorn Court
SEE PAGE: 19

CURVE DATA BASED ON 150.00' R. (CL.)

Δ/2 = 22° 27' 28"

DEFLECTION IN MIN./FT. = 11.459156

CL. Station	CL. Arc.	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
10 + 11.15					
10 + 25.00	13.85	11.81	15.88	2° 38' 42"	2° 38' 42"
10 + 43.87	18.87	16.09	21.62	3° 36' 14"	6° 14' 56"
10 + 60.78	16.91	14.42	19.38	3° 13' 47"	9° 28' 43"
10 + 75.00	14.22	12.13	16.30	2° 42' 56"	12° 11' 39"
11 + 00.00	25.00	21.31	28.63	4° 46' 29"	16° 58' 08"
11 + 25.00	25.00	21.31	28.63	4° 46' 29"	21° 44' 37"
11 + 28.74	3.74	3.19	4.29	0° 42' 51"	22° 27' 28"

LOCATION: Greenleaf Court Page: 15

CURVE DATA BASED ON 200.00' R. (CL.)

Δ/2 = 17° 05' 13"

DEFLECTION IN MIN./FT. = 8.594367

CL. Station	CL. Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
0 + 34.39					
0 + 50.00	15.61	13.89	17.32	2° 14' 09"	2° 14' 09"
0 + 75.00	25.00	22.24	27.75	3° 34' 51"	5° 49' 00"
1 + 00.00	25.00	22.24	27.75	3° 34' 52"	9° 23' 52"
1 + 25.00	25.00	22.24	27.75	3° 34' 52"	16° 33' 35"
1 + 50.00	25.00	22.24	27.75	3° 34' 52"	16° 33' 35"
1 + 53.68	3.68	3.28	4.08	0° 31' 38"	17° 05' 13"

CURVE LAYOUT, STAKING INFO.

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

Design
Drawn by
Checked by
Date
Job no.

Sheet 20 of [illegible]