STREET IMPROVEMENTS FOR

THE NETT PARK ADDITION

YELLOWSTONE: FROM THE EAST LINE OF MAIZE ROAD TO THE WEST LINE OF YOSEMITE

YELLOWSTONE COURT: FROM THE NORTH LINE OF YELLOWSTONE TO AND INCLUDING CUL-DE-SAC

YELLOWSTONE COURT: FROM THE SOUTH LINE OF YELLOWSTONE TO AND INCLUDING CUL-DE-SAC

PROJECT NUMBER

472-76-245-81615-000-000-001



INDEX OF SHEETS

Title Sheet.	1
Typical 85', 7" A.C. Pavement, Section	2
Plan Sheet; Yellowstone Sta. 0+00-5+50	3
Plan Sheet; Yellowstone Sta. 5+50-10+19.39	4
Plan Sheet; Yellowstone Courts	5
Earthwork Sections	6-9

BENCHMARKS

Bench Mark 1 City of Wichita Disc, Maize Rd. and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 1415.54 City Datum

Bench Mark 2 'D' Cut Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone. Elev. 1389.98 City Datum

PHASE TWO

BENEFIT DISTRICT — — —

THE CITY of WICHITA, KANSAS

MICHAEL E. LINDEBAK
CITY ENGINEER

GENERAL NOTES

1. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

2. This project includes a certain amount of roll type curb construction. Roll Curbs shall be depressed through all driveway openings when such drives are constructed as a part of the project. No more than 16 drives 16 feet in width, or equivalent combinations thereof, are to be constructed with this project.

3. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

THOMAS CHARLES LICENSED 9421 KANSAS PROFESSIONAL SURVEYOR

June 20, 1988

· TITLE SHEET ·

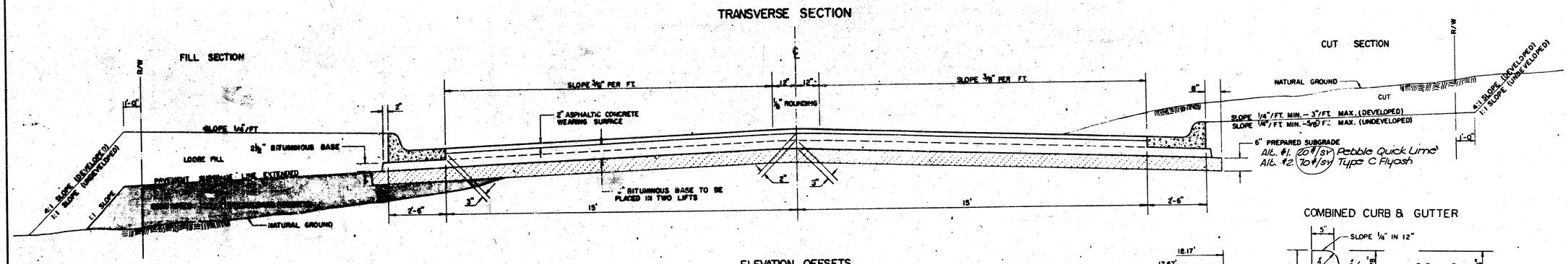
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Design:	Drawn:	Approved:	Date:	Scale:	Sheet:
C. Bohm	R. J. Plush	T. Ruggles		1" = 200'	1 of 9

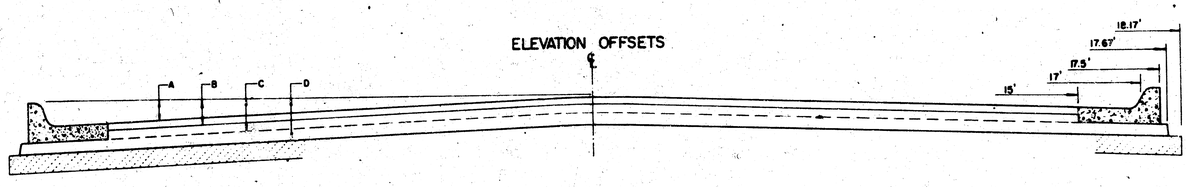
S/C S '89

TYPICAL 35' PAVEMENT DETAILS

TRANSVERSE SECTION

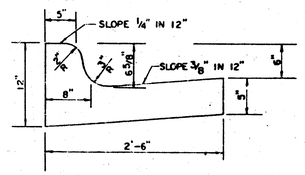


ELEVATION OFFSETS

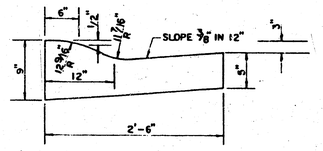


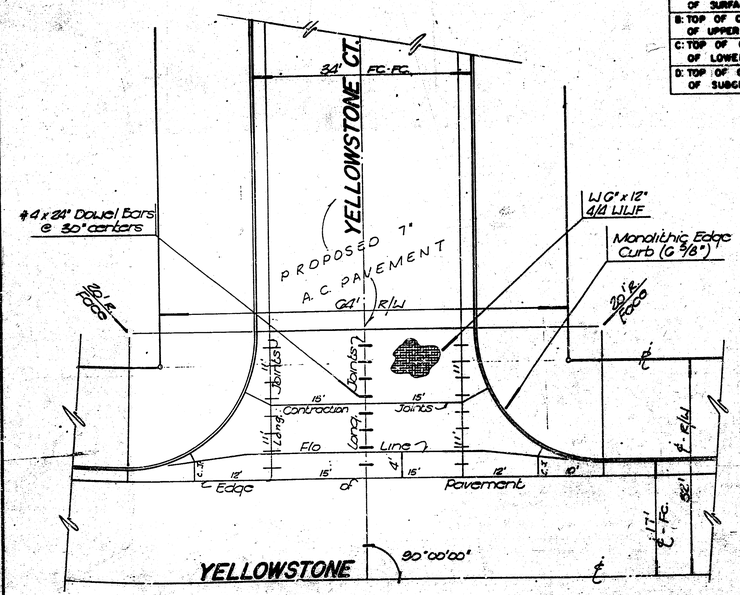
DISTANCE FROM CENTERLINE (LT. & RT.)	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23

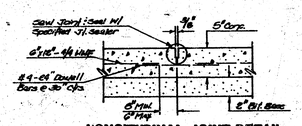
COMBINED CURB & GUTTER



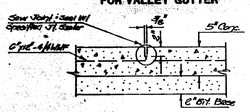
ROLL TYPE COMBINED CURB & GUTTER



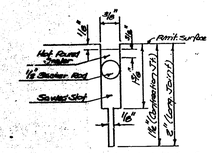




LONGITUDINAL JOINT DETAIL
FOR VALLEY GUTTER



CONTRACTION JOINT
FOR VALLEY GUTTER



Note: Sealer Material Shall Conform to ASTM D-3405 or ASTM D-1190

SAW JOINT DETAIL
FOR CONT. AND LONG. JOINTS

GENERAL NOTES

1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.

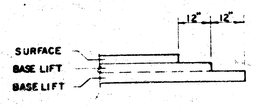
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS | 2 2/9

PROJECT NUMBER
472-76-245-81615-000-000-001 | 9

BENCHMARKS

Bench Mark 1 City of Wichita Disc, Maize Rd. and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 1145.54 City Datum

Bench Mark 2 'a' Cut Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone. Elev. 1139.98 City Datum

INTERSECTION QUANTITIES

124.6	SY	7 " Concrete Pavement
	SY	7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
	SY	" Bituminous Base
62.8	LF	Combined Curb & Gutter
	LF	Monolithic Edge Curb
	SF	4" Wheelchair Ramp
	SF	4" Walk
	CY	Excavation
	CY	Compacted Fill
210.5	Lbs.	Reinforcing Steel
	SY	Manipulation
	Tons	Lime or Cement
116.8	SY	Valley Gtr. 5 "Concrete & 2 " Asphaltic Conc. Base

Scale 1" = 20'

MAIZE ROAD

EXISTING 6" STEEL KPL GAS LINE

Regrade 80 LF of Ditch to Drain North

Regrade 80 LF of Ditch to Drain South

Top of Valve Box 1145.6

Match 1146.13

Match 1146.00

Match 1145.87

STA. 0+54.0 (P.C.)

STA. 0+73.5 (P.C.)

Addition 2

Park

Sta. 0+60 Easement

Sta. 0+12.1 Begin Construction of 6" Temporary Asphalt Pavement (4" Bit. Base).

Construct 7" Valley Gutter Paving, 4/5 Reinf. Concrete, 2" Bituminous Base and Monolithic Edge Curb (G 5/8").

Proposed Fire Hydrant Top of Valve Boxes 144.2 Breaker Flange elev. 144.3

Sta. 0+50 Begin Construction of 7" A.C. Pavement, 5" Bit. Base w/Std. Combined Curb & Gutter (G 5/8").

Construct 5LF Asphalt Curb Transition from Full-Height Curb to match pavement. Transition to be incidental to Project.

THE

STA. 2+45.47

STA. 2+83.39

YELLOWSTONE CT.

PROPOSED 7" A.C. PAVEMENT

STA. 3+20.39

P.V.I. Elev. 1143.35 25' V.C.

STA. 3+44.56

NETT

For Cul-de-Sac Detail see Sheet 5

43

Construct std. Type IA Inlet, Hookup, Adjust. Top to Elev. 145.38

42

Construct 7" A.C. Pavement, 5" Bituminous Base w/Std. Combined Curb & Gutter G5/8".

41

STA. 5+50 MATCH LINE

10' Utility Easement

20' Utility Easement

Top of Valve Box 144.00

Top of Valve Box 143.8

For Cul-de-Sac Detail see Sheet 5

Water Main

YELLOWSTONE

ADDITION

PARK

STA. 2+51.39 (P.T.)

P.V.I. Elev. 144.00 No V.C.

STA. 3+07.56

STA. 3+44.56

STA. 3+81.56

STA. 5+50 MATCH LINE

-0.088 %

-0.619 %

-0.712 %

+0.338 %

+0.330 %

CURVE DATA BASED ON CENTERLINE DATA

R=238.17' Δ=42°47'40" L=177.89' Chd.=173.76' Tan.=93.32' Def/ft.=7.217 min.

℄ Station	Arc Length	CHORD LENGTHS 8' Left/face	8' Right/face	Deflection Angle	Total Deflection Angle
0+73.5 P.C.	0			0°00'00"	0°00'00"
1+00	26.5'	25.71'	29.27'	3°11'15"	3°11'15"
1+25	25'	22.57'	27.02'	3°00'26"	6°11'41"
1+50	25'	22.57'	27.02'	3°00'26"	9°12'06"
1+75	25'	22.57'	27.02'	3°00'26"	12°12'32"
2+00	25'	22.57'	27.02'	3°00'26"	15°12'57"
2+25	25'	22.57'	27.02'	3°00'26"	18°13'23"
2+45.47 LL	20.47'	18.31'		2°27'44"	20°41'07"
2+51.39 P.T.	5.92		28.16'	0°42'45"	21°23'50"

EARTHWORK QUANTITIES

Excavation	4021.1 c.y.	Compacted Fill	0 c.y.
+ 10%	402.1	+ 10%	0
Total	4423.2 c.y.	Total	0 c.y.

Subgrade Manipulation 5615 sy.

Borrow Material 0 c.y.

INTERSECTION QUANTITIES

218.7	SY	7 " Concrete Pavement
18.6	SY	2 1/2 " Asphaltic Conc. Pavement (5 " Bituminous Base)
62.8	LF	Combined Curb & Gutter
	LF	Monolithic Edge Curb
	SF	4" Wheelchair Ramp
	SF	4" Walk
	CY	Excavation
	CY	Compacted Fill
	Lbs.	Reinforcing Steel
242	SY	Manipulation
	Tons	Lime or Cement
	SY	Valley Gtr. "Concrete & " Asphaltic Conc. Base

YELLOWSTONE

STA. 0+00 (FROM THE EAST LINE MAIZE RD.) TO STA. 5+50

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REV.

PROJECT NUMBER 472-76-245-81615-000-000-001

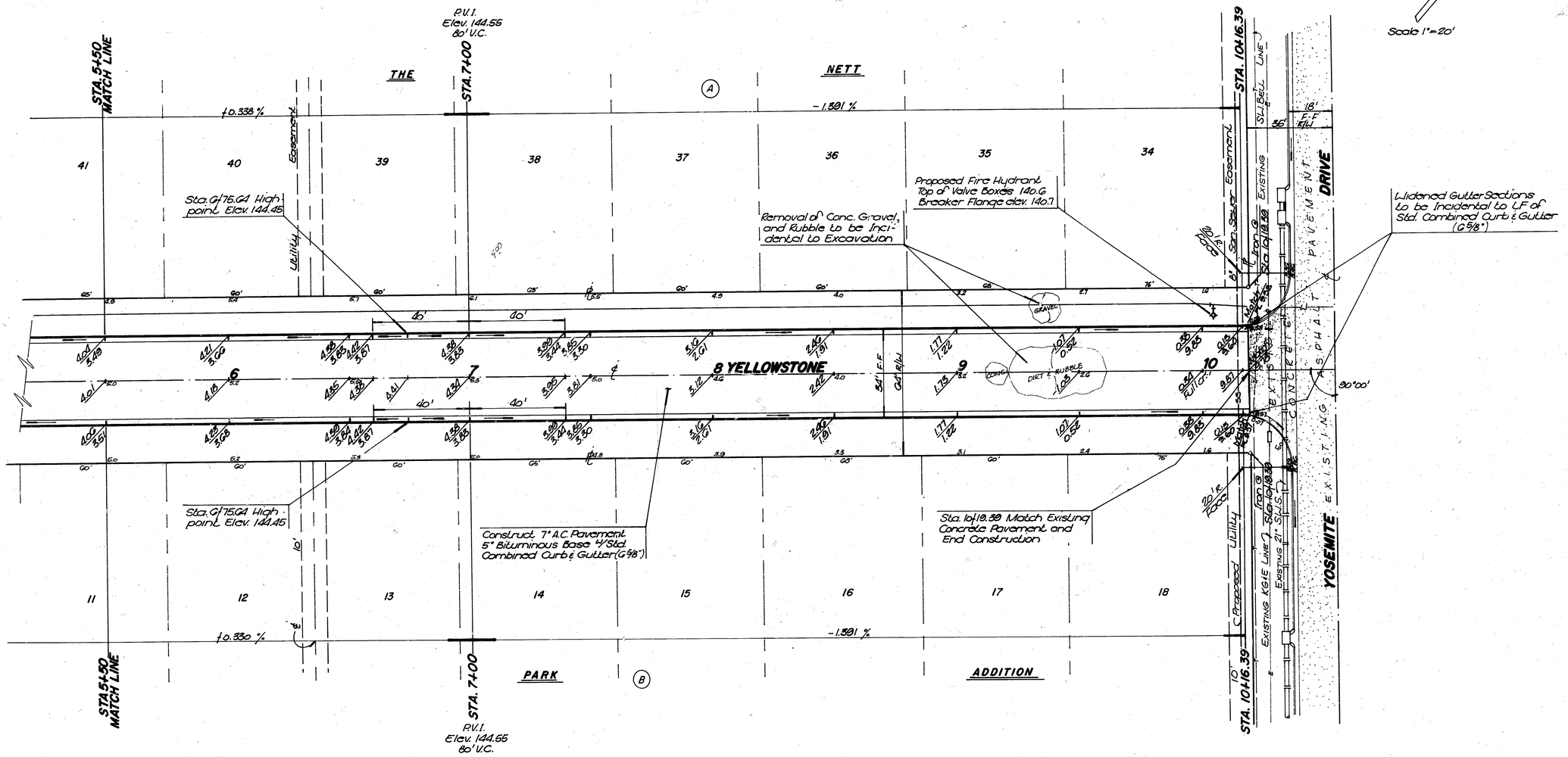
SHEET 3 OF 9 3/9

DESIGN	DRAWN	APPROVED	DATE	SCALE
C. Bohm	R.J. Plush	T. Ruggles	June '88	1" = 20'

BENCHMARKS

Bench Mark 1: City of Wichita Disc, Maize Rd. and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 145.54 City Datum

Bench Mark 2: 'a' Cut Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone. Elev. 139.98 City Datum



YELLOWSTONE
STA. 5+50 TO (THE WEST LINE YOSEMITE DR.) STA. 10+19.39

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REV.

PROJECT NUMBER 472-76-245-81615-000-000-001

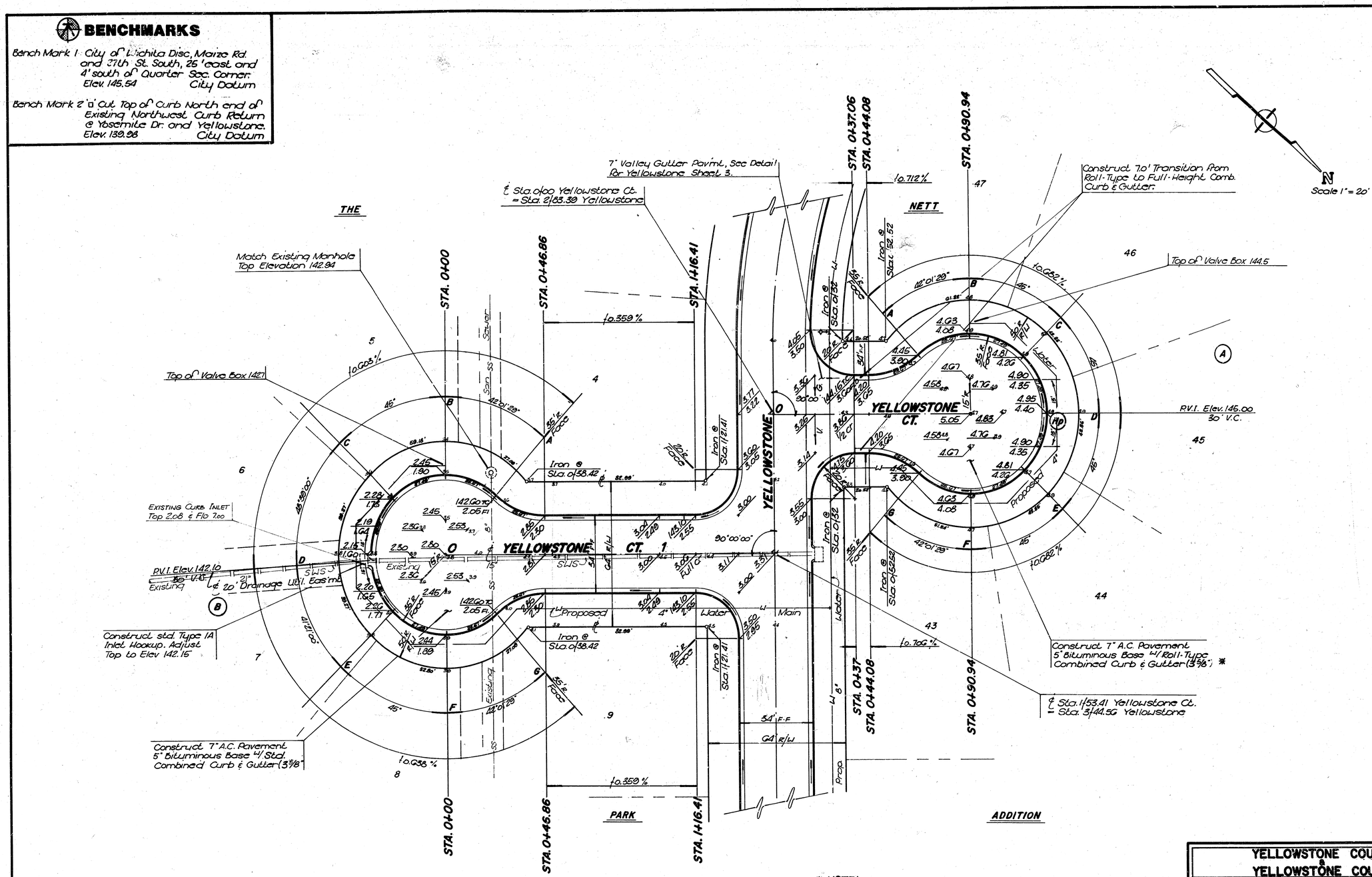
SHEET 4 1/9

DESIGN	DRAWN	APPROVED	DATE	SCALE	OF
C. Bohm	R.J. Plush	T. Ruggles	June '88	1" = 20'	9

BENCHMARKS

Bench Mark 1: City of Wichita Disc, Maize Rd. and 37th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 145.54 City Datum

Bench Mark 2: 'i' Cut Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone. Elev. 139.98 City Datum



* NOTE:

Roll-Type Combined Curb & Gutter (3⅝") is to be Constructed in the North Yellowstone Ct. only. The elevations are not the actual Top of Curb. For the true Top of Curb Elevation add 0.30 to the Flow Line Elevation. Transitions from Full Height to Roll-Type Curb to be paid for as L.F. of Full-Height Combined Curb & Gutter (6⅝")

YELLOWSTONE COURT & YELLOWSTONE COURT					REV.
BAUGHMAN COMPANY P. A. SURVEYING & ENGINEERING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					
PROJECT NUMBER 472-76-245-81615-000-000-001					SHEET 5 5/9
DESIGN C. Bohm	DRAWN R.J. Plush	APPROVED T. Ruggles	DATE June '88	SCALE 1" = 20'	OF 9

Earthwork · Sections

The Nott Park Addition

PROJECT TOTALS
EXCAVATION - 4221.1 C.Y.
LOOSE FILL 22.9

FACE TOTALS
EXCAVATION 1258.4
LOOSE FILL 22.9

Yellowstone

40 30 20 10 0 10 20 30 40

145 140 145 140 145 140 145 140 145 140 145 140 145 140 145 140 145

Sta. 0+12

82.5

Sta. 0+27

EXC. 21.4

15

44.54

Sta. 0+50

EXC. 41.8

23

65.28
83.07

Sta. 1+00

EXC. 100.5 | LF 31

80

45.24 3.83

Sta. 1+50

EXC. 73.3 | LF 6.5

50

35.81 9.80

Sta. 2+00

EXC. 621.5 | LF 6.6

50

31.64 3.50

Sta. 2+51.39

EXC. 65.0 | LF 5.4

51.39

96.63 2.20

Sta. 2+83.39

EXC. 73.2 | LF 1.3

52

44.81 (22.16)

64.97

Sta. 3+07.56

EXC. 22.2

24.17

27.95

Sta. 3+20.39

EXC. 65.3

37.0

35.16

Sta. 3+44.56

EXC. 34.1

24.17

(48.98)

67.7

110.8

Sta. 3+81.56

EXC. 150.0

37

87.72

Sta. 4+50

EXC. 201.2

68.44

71.01

Sta. 5+00

EXC. 142.5

50

82.85

Sta. 5+50

EXC. 155.4

50

84.83

A72-76-245-81615-000-000-001

6/9

Earthwork Sections
The Nell Park Addition

Page Totals
Excavation 1774.2 cy

Yellowstone

40 30 20 10 0 10 20 30 40

Sta. 6+00
Exc. 156.7
50
80.44

Sta. 6+50
Exc. 168.3
50
86.34

Sta. 7+00
Exc. 176.3
50
96.07

Sta. 7+50
Exc. 182.1
50
101.65

Sta. 8+00
Exc. 199.9
50
114.24

Sta. 8+50
Exc. 209.9
50
112.41

Sta. 9+00
Exc. 216.9
50
115.34

Sta. 9+50
Exc. 225.1
50
125.57

Sta. 10+00
Exc. 208.8
50
94.55

Sta. 10+19.39
Exc. 41.2
19.39
20.29

140 145 140 145 140 145 140 145 140 145 140 145 135 140 145 135 140 145

6/9

7 | 9

472-76-245-81615-000-000-001

Earthwork Sections
The Nett Park Addition

105.10

Sta. 1+10.41

10.41

Exc. 63.3

105.22

Sta. 1+00

53.14

Exc. 199.7

67.71

33 | 45.21 | 52.50 | 33.5

Avg. 1.57 | Sta. 0+46.86 | Avg. 1.57

40 30 20 10 0 10 20 30 40

Exc. 65.5

Δ = 42°01'29"

A = 1218.36
20²π(42°01'29"/360)
1256.6 (0.1167)
1218.36 − 146.7 = 1071.67
((1.74+1.57)/2)(1071.67)
(1.65)(1071.67) = 1768.3 = 65.5 cy

52 | Avg. 1.74 | 90.64

G

Cut((1.74+1.80)/2)(51.75)²π(42°01'29"/360)
(1.77)(8,413.4)(0.1167) = 1738.4 = 64.4 cy

Exc. 64.4

42°01'29"

51.5 | Avg. 1.80 | 92.88

F

Cut((1.80+1.74)/2)(51.75)²π(45/360)
(1.77)(8413.4)(0.1250) = 1861.5 = 68.9 cy

Exc. 68.9

45°

52 | Avg. 1.74 | 90.52

E

Cut((1.74+1.96)/2)(52)²π(41°21'00"/360)
(1.85)(8,496.9)(0.1149) = 1805.1 = 66.9 cy

Exc. 66.9

41°21'00"

52 | Avg. 1.96 | 101.96

D

Cut((1.96+1.81)/2)(51.75)²π(48°39'00"/360)
(1.89)(8,413.4)(0.1351) = 2143.2 = 79.4 cy

Exc. 79.4

48°39'00"

51.5 | Avg 1.81 | 93.40

C

Cut((1.81+1.43)/2)(51.25)²π(45/360)
(1.62)(8,251.6)(0.1250) = 1670.9 = 61.9 cy

Exc. 61.9

45°

51 | Avg. 1.43 | 72.96

B

Cut((1.55+1.43)/2)(51.25)²π(42°01'29"/360°)
(1.49)(8,251.6)(0.1167) = 1435.2 = 53.2 cy

Exc. 53.2

42°01'29"

Avg. 1.55 | 79.07

51.5

A

Exc. 57.9

Page Totals
Excavation 781.10

Δ = 42°01'29"
A = 1218.36
20²π(42°01'29"/360)
1256.6(0.1167) = 146.7
1218.36 − 146.7 = 1071.67
Cut = ((1.37+1.55)/2)(1071.67)
= (1.46)(1071.67) = 1564.6 = 57.9 cy

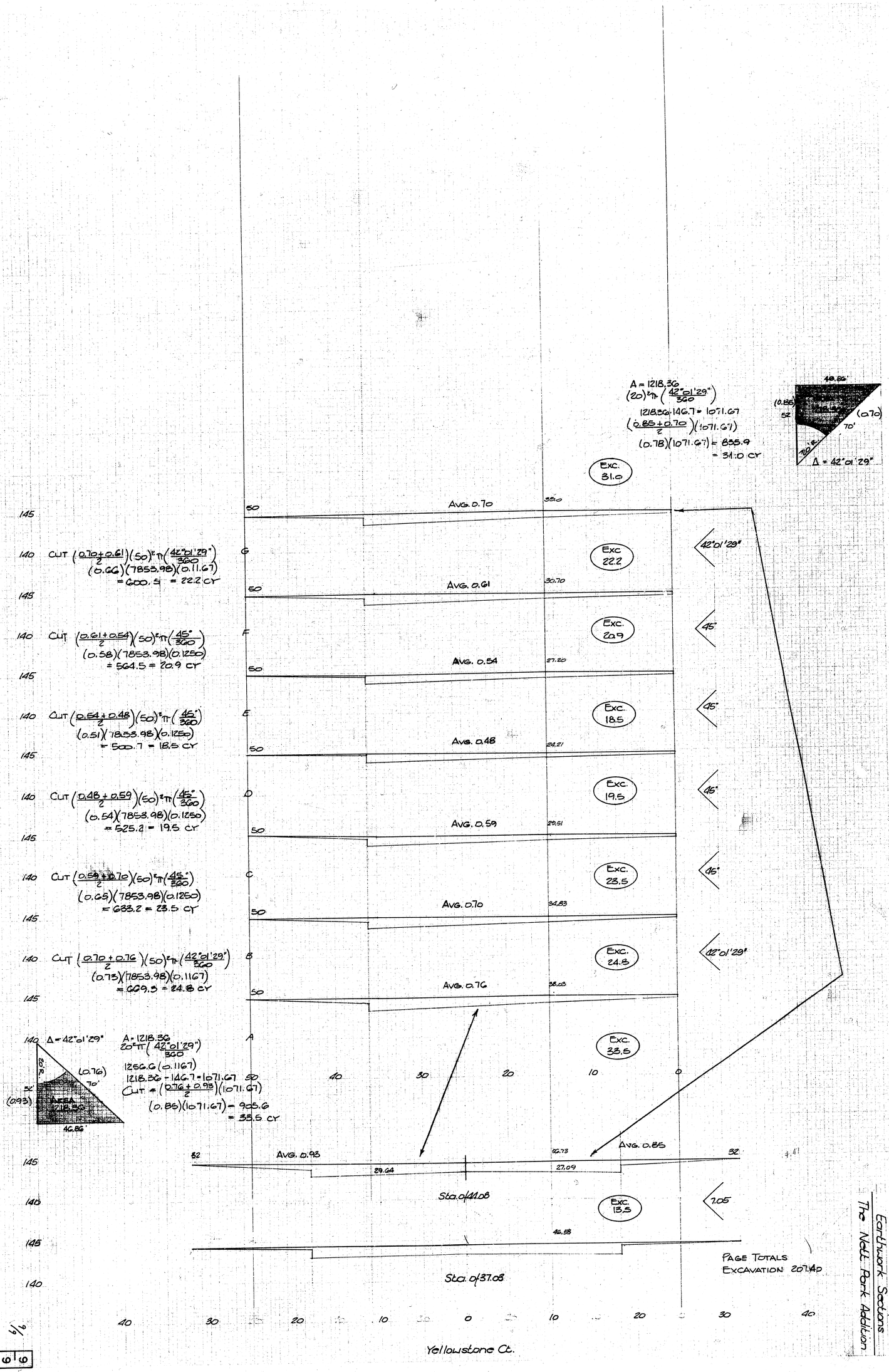
(1.55) | 70' | 10' | 52' | 1218.36 | 46.86

50 40 30 20 10 0

Yellowstone Ct.

472-76-245-81615-000-000-001

6 | 8



Earthwork Sections
The Nat'l. Park Addition

fe-7a-40e1018e000-5e-001

9/9