S.W.S. NO. 136
STORM SEWERS IN COTTONWOOD VILLAGE
SECOND ADDITION

PROJECT NO.

468-76-245-80574-000-000-001

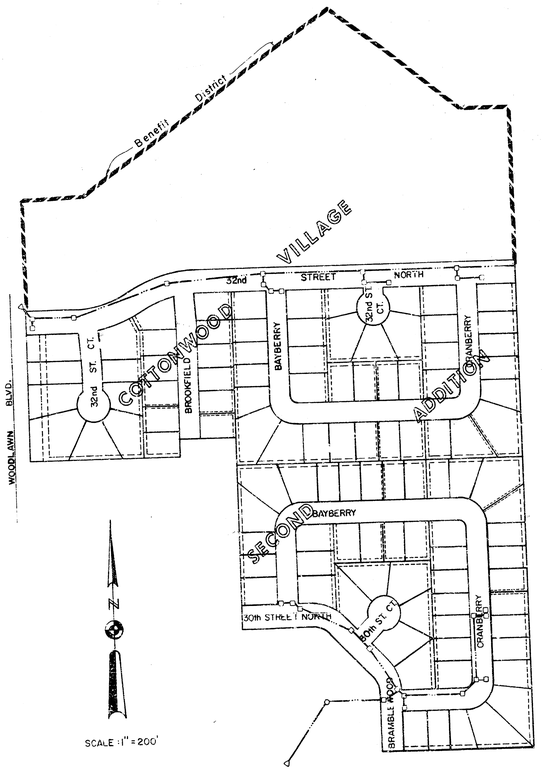
CITY OF WICHITA, KANSAS

R.W. LINN CITY ENGINEER

OCT., 1978

GENERAL NOTE

ALL CMP USED FOR THIS PROJECT SHALL BE FULL ASPHALT COATED DUE TO THE CORROSIVE NATURE OF EXISTING SOILS IN THE AREA



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9	HEADWALL DETAILS

VAN DOREN · HAZARD · STALLINGS
ARCHITECTS · ENGINEERS · PLANNERS
WICHITA, KANSAS

SHEET 1 OF 15

General Notes

Note 'A': Type 3 Rip Rap; 12" Rip Rap on 6" sand & gravel bedding. Size range for 12" Rip Rap shall be a max of 1 cubic ft. min of 1½". 6" bedding shall be a continuous layer of sand & gravel or sand & crushed rock reasonably well graded to a max size of 1½".

Note 'B': All CMP 21" or smaller (or equiv. CMPA) shall be Helically Corrugated Metal Pipe

Scale 1"=40'

See Sht 5 for Ditch Profile & Sections

Future 20' Drainage Easement When Platted

Sta 0+42-32nd St. N 35' Lt
E=165.2
Install 24" RCP or CMP End Section

Sta 0+00-Storm Drain A
Type 3 Rip Rap See Note 'A' this Sht.

Sta 0+42-32nd St. N 35' Lt
Rt 165.2
Install 24" RCP or CMP End Section

Install 18"x10" RCP or 18"x14" CMPA End-Section

WOODLAWN BLVD.

32nd ST. CT.

BROOKFIELD

BAYBERRY

32nd ST. N

32nd ST CT.

Lot 1 Blk 1

Lot 9 Blk 1

Lot 10

Lot 6 Blk 2

Lot 7

Lot 1 Blk 3

Lot 17

Lot 13

Sta 0+00-32nd St N=
Sta 17+72-Woodlawn Blvd

Sta 2+39.69-32nd St N=
Sta 18+50.29-32nd St. Ct.

Sta 5+56.92-32nd St N=
Sta 4+58.63-Brookfield

Sta 8+56.14-32nd St N=
Sta 6+71.59-Bayberry

Sta 11+83.14-32nd St N=
Sta 10+95-32nd St Ct

Sta 0+42-32nd St N 35' Rt R=166.8
Install 24" RCP or CMP End Section

Sta 0+42.43-A=
Sta 0+00-A1
Const Std Type 1A inlet W=7'-0" Sta 0+70 Lt
32nd St. N. TC Elev=168.90

Sta 1+65.08-A=
Sta 0+00-A2
Const Std Type 1A inlet W=7'0" Sta 2+04.10 Lt
32nd St. N. TC Elev=170.25

Sta 4+66.30-A=
Sta 0+00-A 3
Const Std Type 1A inlet W=7'0" Sta 5+11.18 Lt
32nd St. N. TC Elev=171.83

Sta 7+73.03-A=
Sta 0+00-A4
Const Std Type 1A inlet W=5'0" Sta 8+19.89 Lt
32nd St. N. TC=177.67

Sta 10+23.05-A=
Sta 0+00-A5
Const Std Type 1A inlet W=5'0" Sta 11+12.89 Lt
32nd St N. TC Elev=181.05

130 LF 34"x53" HE RCP @+0.30%
Alt 134 LF 30"x91" CMPA (fully paved) @+0.30%

301 LF 34"x53" HE RCP @+0.30%
Alt 301 LF 30"x91" CMPA (fully paved) @+0.30%

307 LF 30" RCP @+0.80%
Alt 307 LF 30" CMP (fully paved @+0.80%

300 LF 24" RCP @+0.70%
Alt 300 LF 24" CMP (fully paved) @+0.70%

127 LF 24" RCP @+0.60%
Alt 127 LF 24" CMP (fully paved) @+0.60%

58"x60" RCP or 66"x46" CMPA End-Section

Type 3 Riprap

32 LF 30"x60" HE RCP @+0.30%
Alt 30 LF 58"x36" CMPA (fully paved) @+0.30%

Sta 0+00-A1=
Sta 0+42.43-A1
Const Std Type 1A inlet W=7'0" Sta 0+70 Lt 32nd St N
TC Elev=168.90

32 LF 15" RCP @+0.63%
Alt 32 LF 15" CMP @+0.63%

Sta 0+00-A2=
Sta 1+65.08-A
Const Std Type 1A inlet W=7'0" Sta 2+04.10 Lt 32nd St N
TC Elev=170.25

Sta 0+32.5-A2
Const Std Type 1A inlet W=4'-2" Sta 2+04.10 Rt 32nd St. N. TC Elev=170.25

74 LF 15" RCP @+0.50%
Alt 74 LF 15" CMP @+0.50%

32 LF 18" RCP @+0.50%
Alt 32 LF 18" CMP @+0.50%

Sta 0+00-A3=
Sta 4+66.30-A
Const Std Type 1A inlet W=7'0" Sta 5+11.18 Lt 32nd St N. TC Elev=171.83

Sta 0+32.5-A3 Const Std Type 1A inlet W=4'-2" Sta 5+11.18 Rt 32nd St N. TC Elev=171.83

32 LF 18" RCP @+0.50%
Alt 32 LF 18" CMP @+0.50%

86 LF 15" RCP @+0.50%
Alt 86 LF 15" CMP @+0.50%

Sta 1+18.51-A3
Const Std Type 1A inlet W=4'-2" Sta 4+30.29 Rt 32nd St N
TC Elev=171.69

Sta 0+00-A4=
Sta 7+73.03-A
Const Std Type 1A inlet W=5'0" Sta 8+19.89 Lt 32nd St N. TC Elev=177.67

Sta 0+31.50-A4
Const Std Type 1A inlet W=4'-2" Sta 8+19.89 Rt 32nd St N. TC Elev=177.67

Sta 1+07.28-A4
Const Std Type 1A inlet W=4'-2" Sta 8+35.25 Rt Bayberry TC Elev=178.89

42 LF 18" RCP @+1.0%
Alt 42 LF 18" CMP @+1.0%

32 LF 21" RCP @+1.0%
Alt 32 LF 21" CMP @+1.0%

34 LF 21" RCP @+1.0%
Alt 34 LF 21" CMP @+1.0%

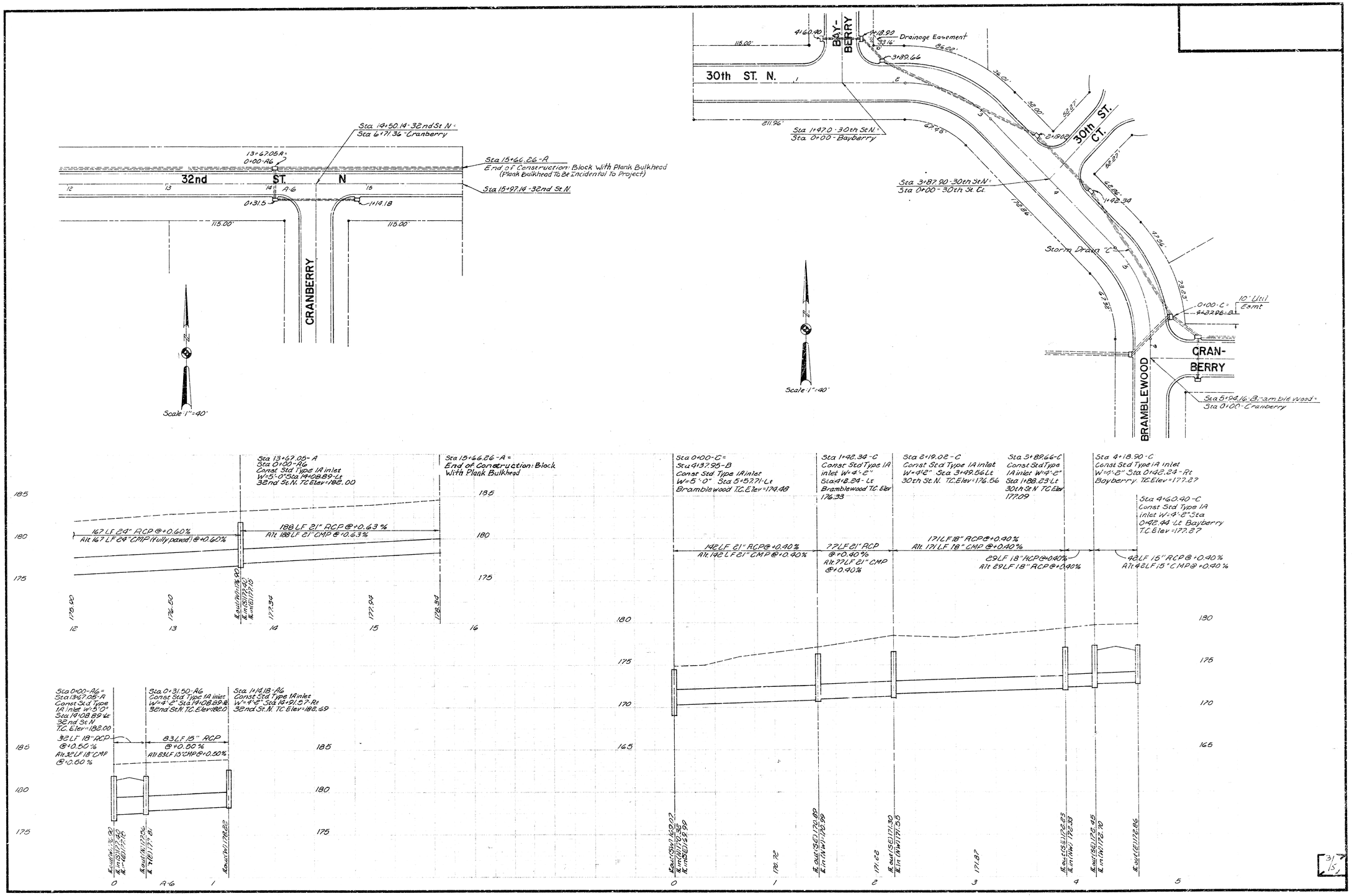
Sta 0+00-A5=
Sta 10+23.05-A
Const Std Type 1A inlet W=5'0" Sta 11+12.89 Lt 32nd St N. TC Elev=181.05

Sta 0+31.00-A5
Const Std Type 1A inlet W=4'-2" Sta 11+14.89 Rt 32nd St N. TC Elev=181.05

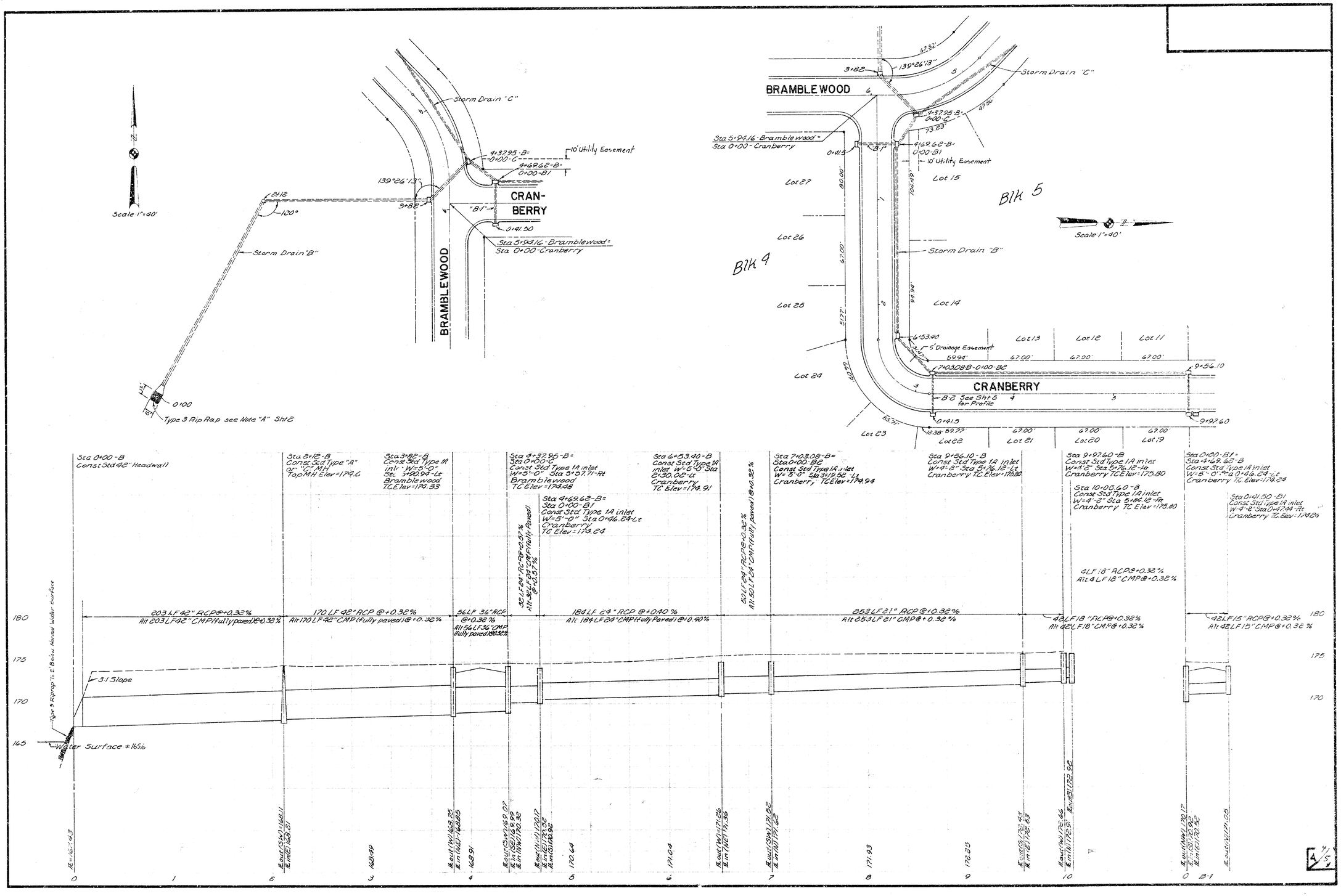
Sta 1+08.18-A5
Const Std Type 1A inlet W=4'-2" Sta 11+91.57 Rt 32nd St. N. TC Elev=181.87

32 LF 18" RCP @+0.50%
Alt 32 LF 18" CMP @+0.50%

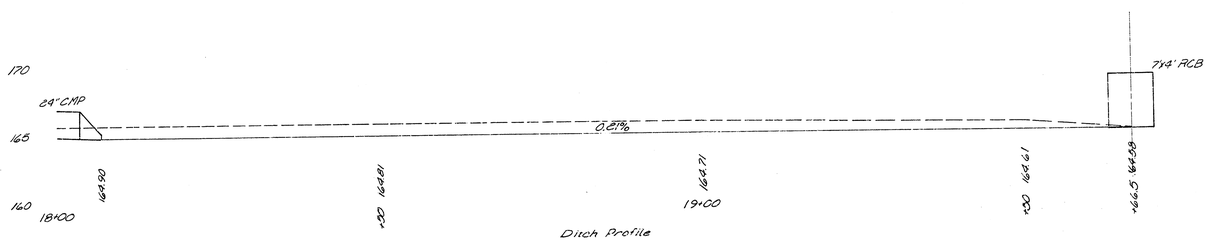
77 LF 15" RCP @+0.50%
Alt 77 LF 15" CMP @+0.50%

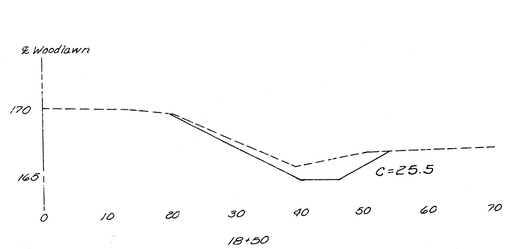


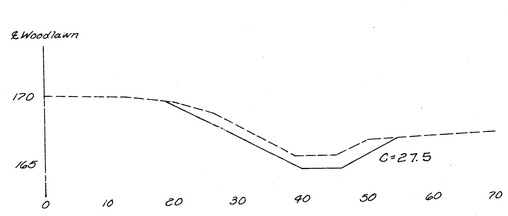
Sta 14+50.14-32nd St N=
Sta 6+71.36-Cranberry
13+67.05A=
0+00-A6
Sta 15+66.26-A
End of Construction: Block With Plank Bulkhead
(Plank Bulkhead To Be Incidental To Project)
Sta 15+97.14-32nd St N
32nd ST. N
A-6
0+31.5
1+14.18
115.00'
CRANBERRY
Scale 1"=40'
30th ST. N.
BAY-BERRY
4+60.40
4+18.90
Drainage Easement
3+89.66
Sta 1+47.0-30th St N=
Sta 0+00-Bayberry
30th ST. CT.
2+19.02
Sta 3+87.90-30th St N=
Sta 0+00-30th St Ct.
1+42.34
Storm Drain "C"
0+00-C=
4+37.95-B
10' Util Esmt
CRAN-BERRY
BRAMBLEWOOD
Sta 5+94.16-Bramblewood=
Sta 0+00-Cranberry
Scale 1"=40'
Sta 13+67.05-A
Sta 0+00-A6
Const Std Type 1A inlet
W=5'-0" Sta 14+08.89-Lt
32nd St N. TC Elev=182.00
Sta 15+66.26-A=
End of Construction: Block
With Plank Bulkhead
167 LF 24" RCP @+0.60%
Alt 167 LF 24" CMP (fully paved) @+0.60%
188 LF 21" RCP @+0.63%
Alt 188 LF 21" CMP @+0.63%
Sta 0+00-C=
Sta 4+37.95-B
Const Std Type 1A inlet
W=5'-0" Sta 5+57.71-Lt
Bramblewood T.C. Elev=174.48
Sta 1+42.34-C
Const Std Type 1A
inlet W=4'-2"
Sta 4+2.24-Lt
Bramblewood T.C. Elev
176.33
Sta 2+19.02-C
Const Std Type 1A inlet
W=4'-2" Sta 3+49.56 Lt
30th St. N. T.C. Elev=176.56
Sta 3+89.66-C
Const Std Type
1A inlet W=4'-2"
Sta 1+88.23 Lt
30th St N T.C. Elev
177.09
Sta 4+18.90-C
Const Std Type 1A inlet
W=4'-2" Sta 0+42.24-Rt
Bayberry. T.C. Elev=177.27
Sta 4+60.40-C
Const Std Type 1A
inlet W=4'-2" Sta
0+42.44-Lt Bayberry
T.C. Elev=177.27
142 LF 21" RCP @+0.40%
Alt 142 LF 21" CMP @+0.40%
77 LF 21" RCP
@+0.40%
Alt 77 LF 21" CMP
@+0.40%
171 LF 18" RCP @+0.40%
Alt 171 LF 18" CMP @+0.40%
29 LF 18" RCP @+0.40%
Alt 29 LF 18" RCP @+0.40%
42 LF 15" RCP @+0.40%
Alt 42 LF 15" CMP @+0.40%
Sta 0+00-A6=
Sta 13+67.05-A
Const Std Type
1A inlet W=5'-0"
Sta 14+08.89-Lt
32nd St N
T.C. Elev=182.00
Sta 0+31.50-A6
Const Std Type 1A inlet
W=4'-2" Sta 14+08.89-Rt
32nd St N. T.C. Elev=182.0
Sta 1+14.18-A6
Const Std Type 1A inlet
W=4'-2" Sta 14+91.57-Rt
32nd St. N. TC Elev=182.69
32 LF 18" RCP
@+0.50%
Alt 32 LF 18" CMP
@+0.50%
83 LF 15" RCP
@+0.50%
Alt 83 LF 15" CMP @+0.50%



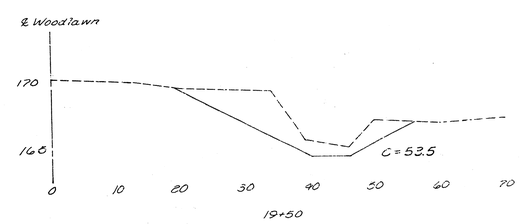
Scale 1"=40'
Storm Drain "C"
10' Utility Easement
4+37.95-B=
0+00-C
4+69.62-B=
0+00-B1
139°26'13"
3+82
2+12
120°
CRAN-
BERRY
"B1"
0+41.50
Sta 5+94.16-Bramblewood=
Sta 0+00-Cranberry
Storm Drain "B"
BRAMBLEWOOD
0+00
Type 3 Rip Rap see Note "A" Sht2
BRAMBLEWOOD
Sta 5+94.16-Bramblewood=
Sta 0+00-Cranberry
Storm Drain "C"
Lot 27
Lot 26
Lot 25
Lot 24
Lot 23
Lot 15
Lot 14
Lot 13
Lot 12
Lot 11
Blk 4
Blk 5
Scale 1"=40'
Storm Drain "B"
5' Drainage Easement
7+03.08-B-0+00-B2
9+56.10
CRANBERRY
B-2 See Sht 5 for Profile
0+41.5
9+97.60
Lot 22
Lot 21
Lot 20
Lot 19
Sta 0+00-B
Const Std 42" Headwall
Sta 2+12-B
Const Std Type "A" or "C" MH
Top MH Elev=174.6
Sta 3+82-B
Const Std Type 1A inlet W=5'-0"
Sta 3+90.94-Lt
Bramblewood
TC Elev=174.33
Sta 4+37.95-B=
Sta 0+00-C
Const Std Type 1A inlet
W=5'-0" Sta 3+57.71-Rt
Bramblewood
TC Elev=174.48
Sta 4+69.62-B=
Sta 0+00-B1
Const Std Type 1A inlet
W=5'-0" Sta 0+46.24-Lt
Cranberry
TC Elev=174.24
Sta 6+53.40-B
Const Std Type 1A inlet W=5'-0" Sta 2+30.02-Lt
Cranberry
TC Elev=174.91
Sta 7+03.08-B=
Sta 0+00-B2
Const Std Type 1A inlet
W=5'-0" Sta 3+19.52-Lt
Cranberry TC Elev=174.94
Sta 9+56.10-B
Const Std Type 1A inlet
W=4'-2" Sta 5+76.12-Lt
Cranberry TC Elev=175.80
Sta 9+97.60-B
Const Std Type 1A inlet
W=4'-2" Sta 5+76.12-Rt
Cranberry TC Elev=175.80
Sta 10+05.60-B
Const Std Type 1A inlet
W=4'-2" Sta 5+84.12-Rt
Cranberry TC Elev=175.80
Sta 0+00-B1=
Sta 4+69.62-B
Const Std Type 1A inlet
W=5'-0" Sta 0+46.24-Lt
Cranberry TC Elev=174.24
Sta 0+41.50-B1
Const Std Type 1A inlet
W=4'-2" Sta 0+47.44-Rt
Cranberry TC Elev=174.24
203 LF 42" RCP @+0.32%
Alt 203 LF 42" CMP (fully paved) @+0.32%
170 LF 42" RCP @+0.32%
Alt 170 LF 42" CMP (fully paved) @+0.32%
56 LF 36" RCP @+0.32%
Alt 56 LF 36" CMP (fully paved) @+0.32%
32 LF 24" RCP @+0.57%
Alt 32 LF 24" CMP (fully paved) @+0.57%
184 LF 24" RCP @+0.40%
Alt 184 LF 24" CMP (fully paved) @+0.40%
50 LF 24" RCP @+0.32%
Alt 50 LF 24" CMP (fully paved) @+0.32%
853 LF 21" RCP @+0.32%
Alt 853 LF 21" CMP @+0.32%
4 LF 18" RCP @+0.32%
Alt 4 LF 18" CMP @+0.32%
42 LF 18" RCP @+0.32%
Alt 42 LF 18" CMP @+0.32%
42 LF 15" RCP @+0.32%
Alt 42 LF 15" CMP @+0.32%
Type 3 Riprap to 2' Below Normal Water Surface
3:1 Slope
Water Surface #165.6
180
175
170
165
0
1
2
3
4
5
6
7
8
9
10
0
B-1

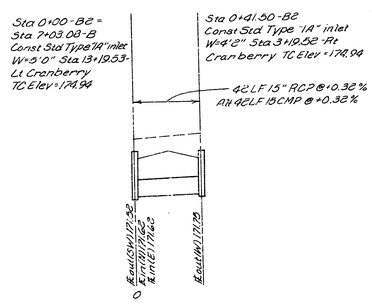






Ditch To Have A Bottom Width=6' And Side Slopes=4:1





B-2