STORM WATER SEWER NO. 142

STORM SEWERS IN SYCAMORE VILLAGE THIRD ADDITION

PROJECT NO.
468-76-245-80593-000-000-001

CITY OF WICHITA, KANSAS
R.W. LINN CITY ENGINEER

GENERAL NOTES

1.) CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS, AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT SITE DEVELOPMENT.

2.) FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THIMBLES DISTURBED DURING CONSTRUCTION.

3.) THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.

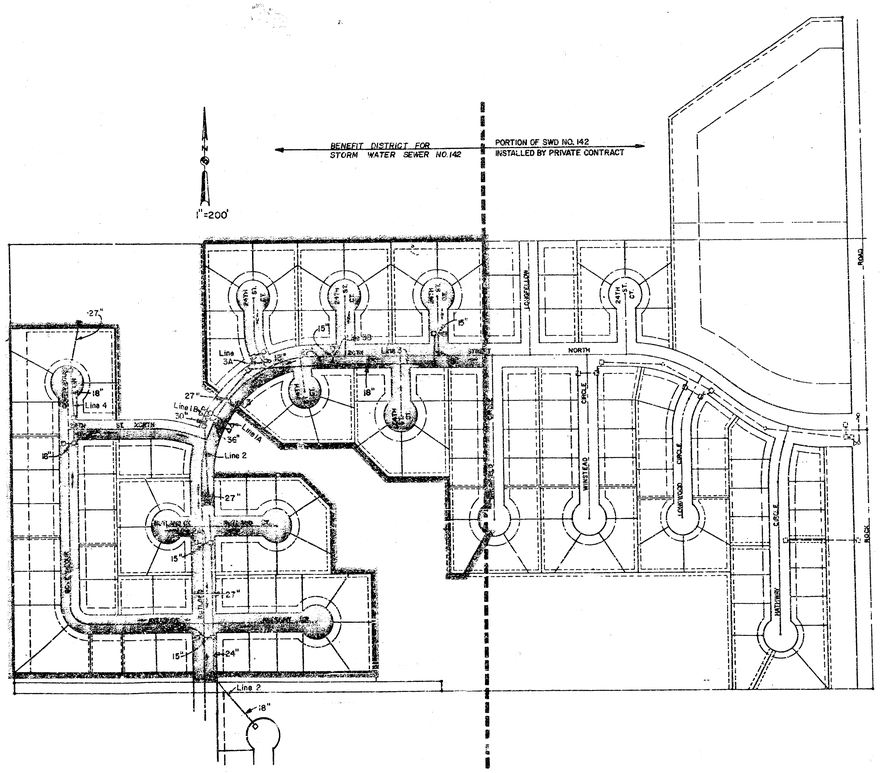
4.) ALL METAL PIPES SHALL BE HELICALLY CORRUGATED PIPE FULLY COATED BOTH INSIDE AND OUTSIDE. THE COATING MAY BE BITUMINOUS OR POLYMERIC AS SPECIFIED IN AASHTO DESIGNATION: M246 - 78, TYPE B. ALL SUCH COATED CORRUGATED PIPE SHALL BE SMOOTH FLOW PIPES FOR SIZES 24" DIAMETER OR LARGER. ALL CONNECTIONS FOR THESE FULLY COATED OR FULLY PAVED AND FULL ASPHALT COATED PIPES SHALL BE FAIRLY WATERTIGHT CONSTRUCTED USING HUGGER TYPE COUPLER OR EQUAL.

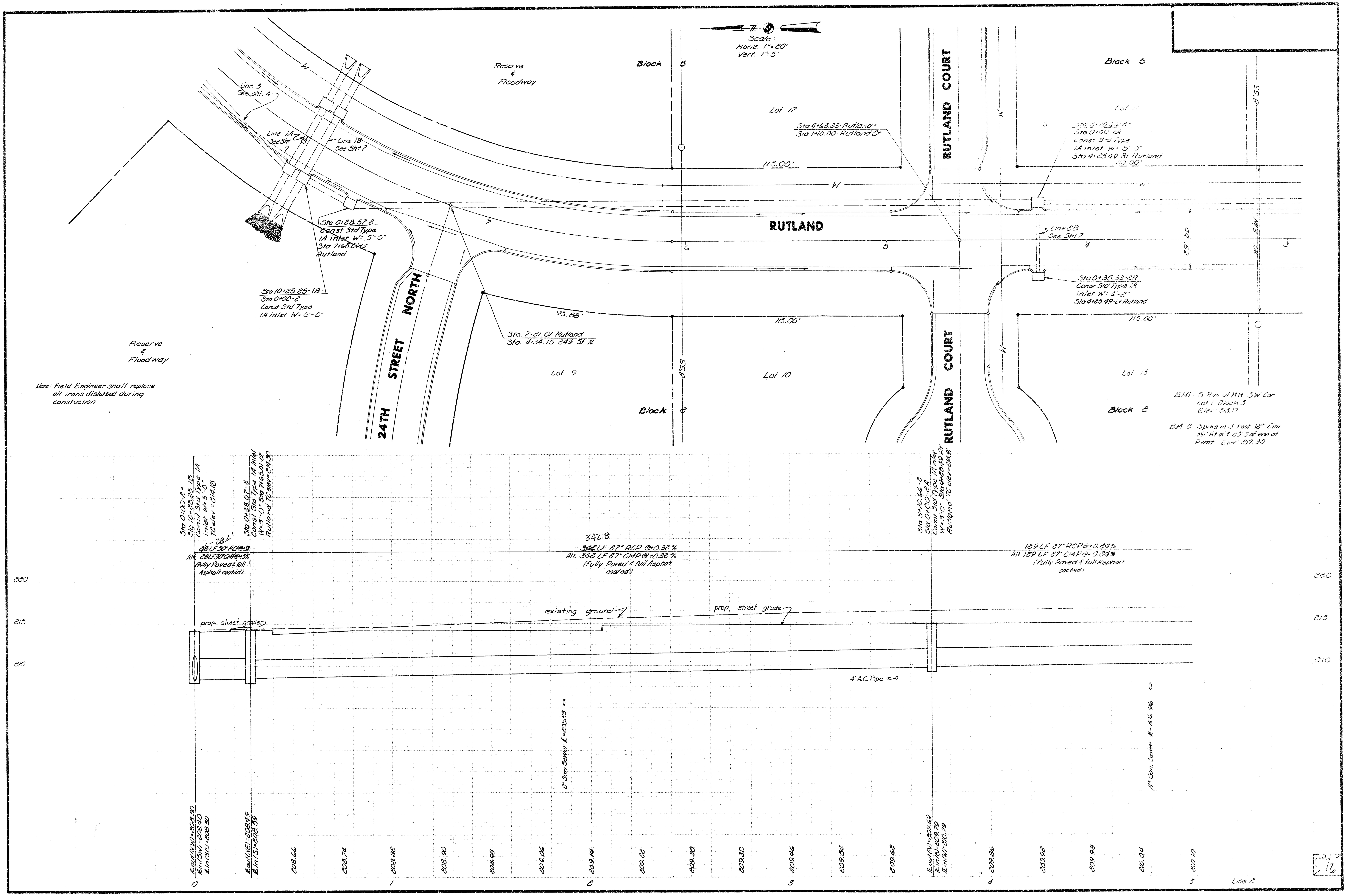
5.) ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.

6.) EARTHWORK FOR CHANNELS DOWNSTREAM FROM END SECTIONS, SHOWN ON SHEET #6 SHALL BE PAID FOR IN THE ITEM CLEARING RIGHT OF WAY WHICH MAY INCLUDE REMOVAL OF SMALL BUSHES AND HEDGE.

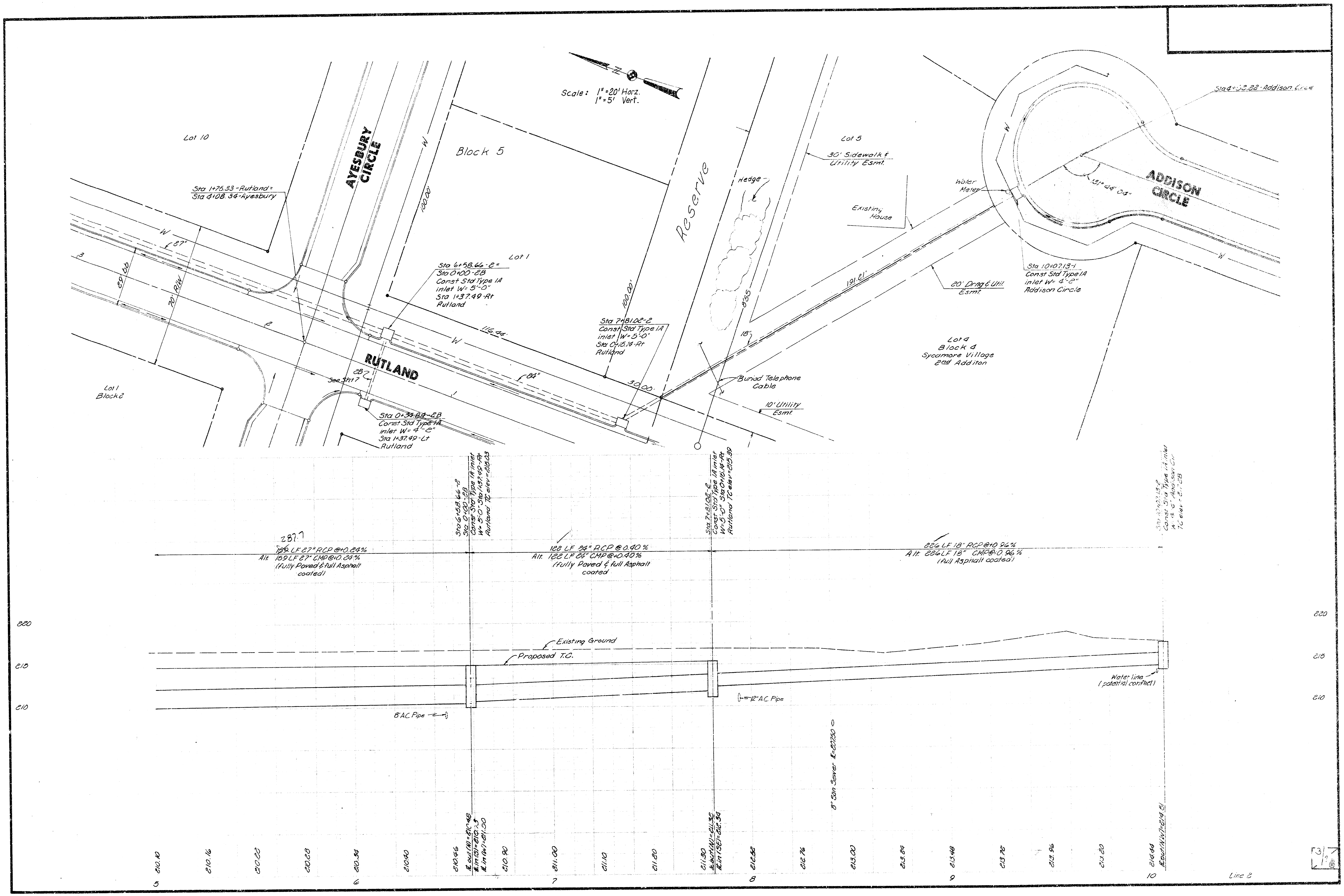
7.) THE RIPRAP FOR THIS PROJECT SHALL BE TYPE 3. THE TYPE 3 RIPRAP SHALL BE 12" RIPRAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIPRAP AND GRAVEL PROTECTION SHALL BE HARD, DENSE, DURABLE, AND SHALL BE REASONABLY WELL GRADED. THE SIZE RANGE OF ROCK USED SHALL BE A MAXIMUM OF ONE CUBIC FOOT AND A MINIMUM OF 1/2 INCH. THE 6 INCH SAND AND GRAVEL BEDDING FOR RIPRAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1-1/2 INCHES IN SIZE.

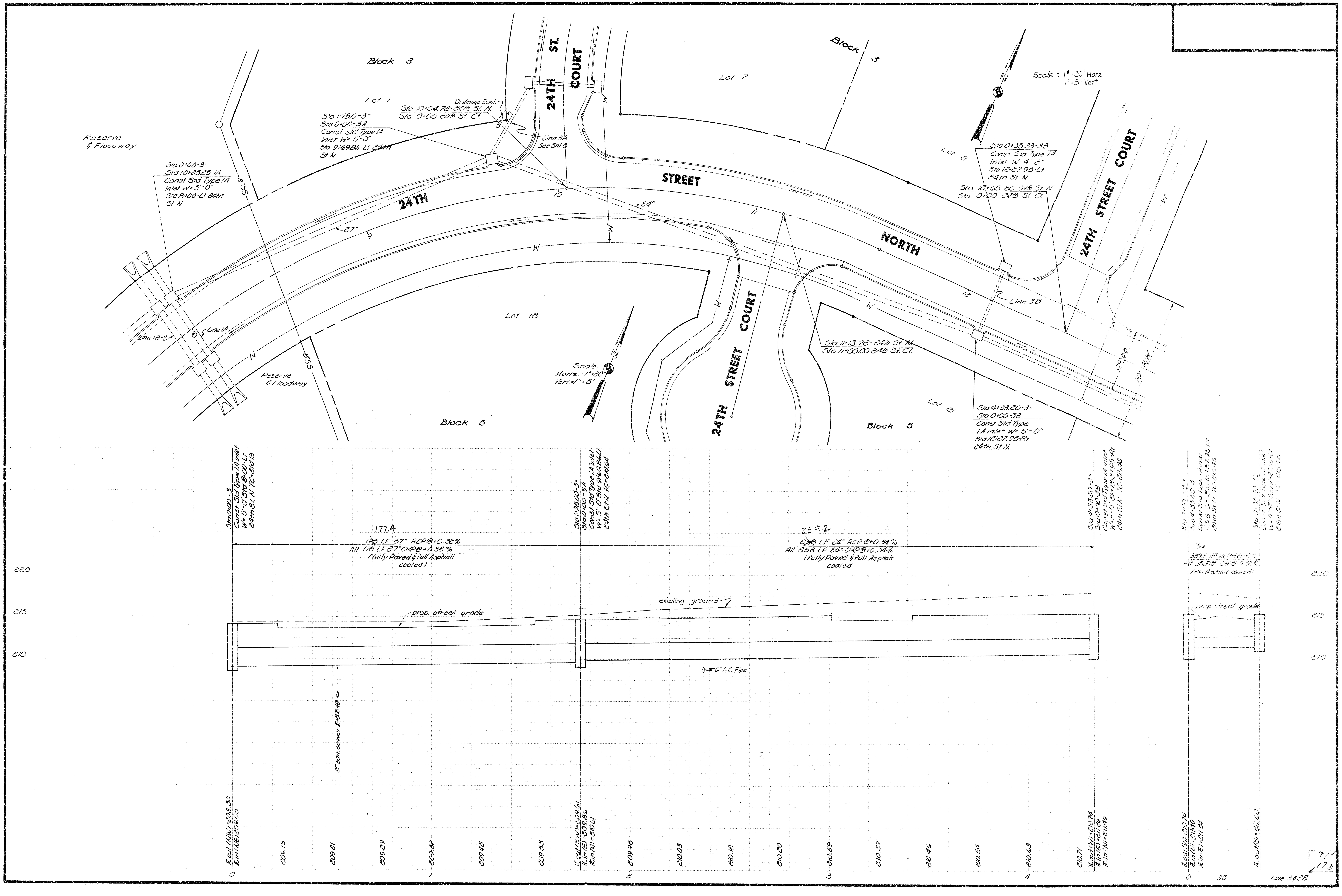
8.) CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPT. ENGINEER.



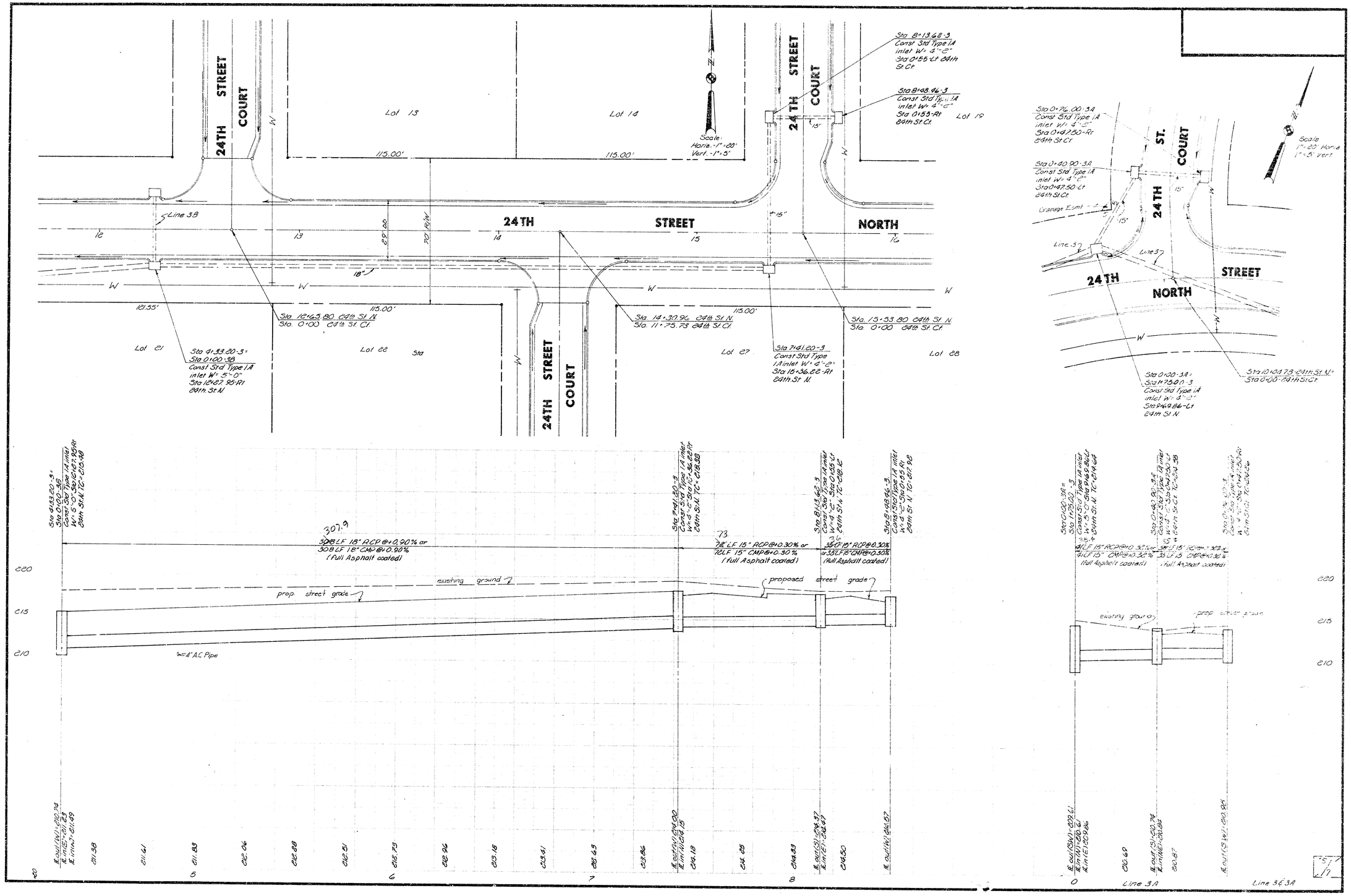


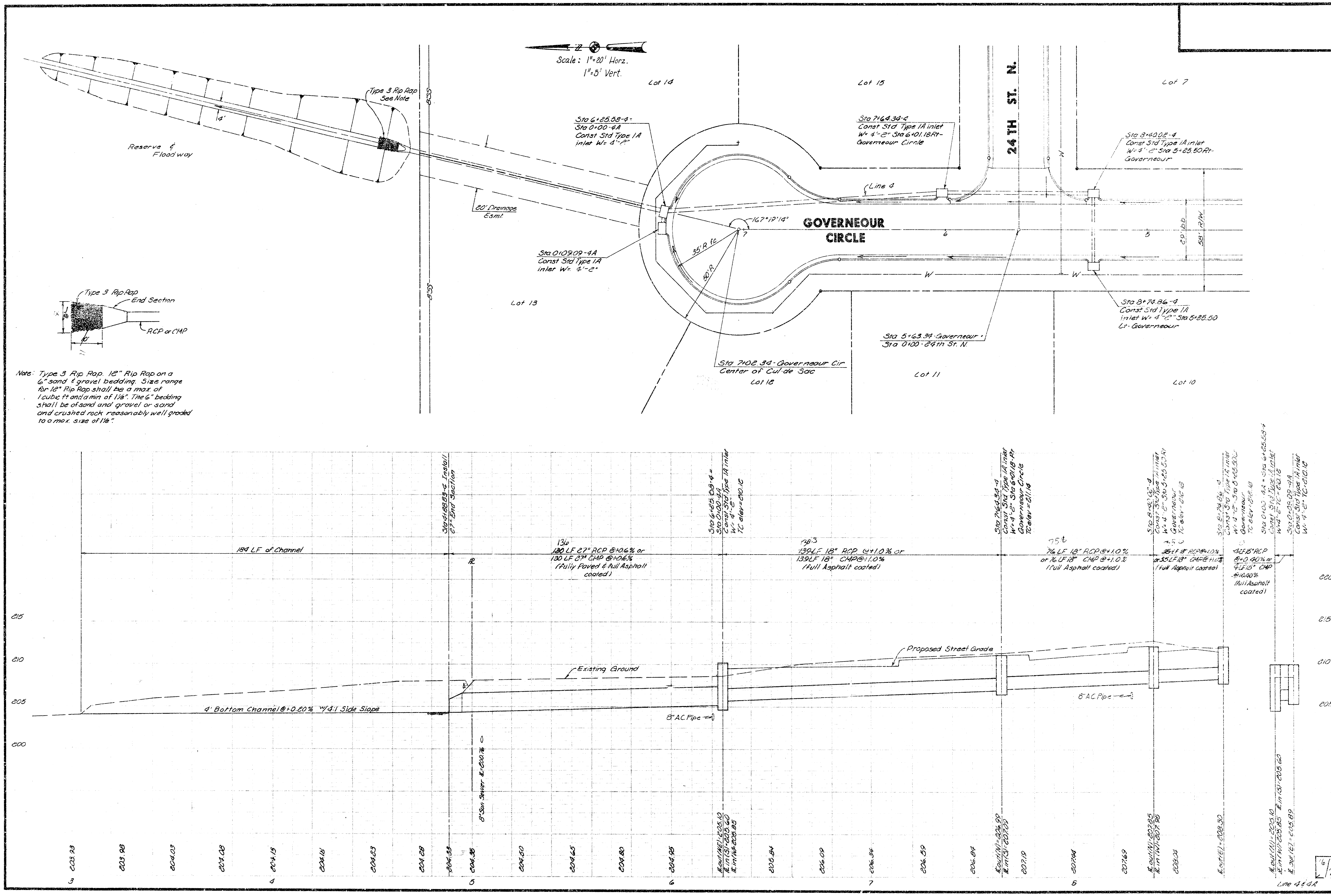
Scale:
Horiz. 1"=60'
Vert. 1"=5'
Reserve & Floodway
Block 6
Lot 17
RUTLAND COURT
Block 5
Lot 11
Line 3 See Sht. 4
Line 1A See Sht 7
Line 1B See Sht 7
Sta 4+63.33 Rutland = Sta 1+10.00 Rutland Ct
115.00'
RUTLAND
Sta 0+28.57-2
Const Std Type 1A inlet W=5'-0"
Sta 7+45.01 Lt Rutland
Sta 10+25.25-1B
Sta 0+00-2
Const Std Type 1A inlet W=5'-0"
Line 2B See Sht 7
Sta 0+35.33-2A
Const Std Type 1A inlet W=4'-2"
Sta 4+25.49 Lt Rutland
Sta 7+21.01 Rutland
Sta. 4+34.15 24th St. N.
95.88'
24TH STREET NORTH
Lot 9
Lot 10
Lot 13
Block 2
Note: Field Engineer shall replace all irons disturbed during constuction
B.M.1: S Rim of M.H. SW Cor Lot 1 Block 3
B.M. 2: Spike in S root 18" Elm
342.8
342 LF 27" RCP @ 0.32%
Alt. 342 LF 27" CMP @ 0.32% (Fully Paved & Full Asphalt coated)
189 LF 27" RCP @ 0.84%
Alt. 189 LF 27" CMP @ 0.84% (Fully Paved & Full Asphalt coated)
28.4
Alt. 28 LF 30" CMP (Fully Paved & full Asphalt coated)
existing ground
prop. street grade
4" A.C. Pipe
8" San. Sewer
220
215
210
208.66
208.74
208.82
208.90
208.98
209.06
209.14
209.22
209.30
209.38
209.46
209.54
209.62
209.86
209.94
209.98
210.02
210.10
0
1
2
3
4
5
Line 2


Scale: 1" = 20' Horz.
1" = 5' Vert.
Lot 10
AYESBURY CIRCLE
Block 5
Reserve
Lot 5
30' Sidewalk & Utility Esmt.
ADDISON CIRCLE
Sta 1+75.33 - Rutland =
Sta 0+08.34 - Ayesbury
Lot 1
Sta 6+58.66 - E
Sta 0+00 - EB
Const Std Type 1A inlet W = 5'-0"
Sta 1+37.49 - Rt
Rutland
Sta 7+81.02 - E
Const Std Type 1A inlet W = 5'-0"
Sta 0+16.14 - Rt
Rutland
Hedge
Existing House
Water Meter
20' Drng & Util. Esmt.
Sta 10+07.13 - 1
Const Std Type 1A inlet W = 4'-0"
Addison Circle
Lot 4
Block 4
Sycamore Village
2nd Addition
RUTLAND
Lot 1
Block 2
Buried Telephone Cable
10' Utility Esmt.
Sta 0+34.89 - EB
Const Std Type 1A inlet W = 4'-0"
Sta 1+37.49 - Lt
Rutland
186 LF 27" RCP @ 0.84%
Alt. 159 LF 27" CMP @ 0.84%
(Fully Paved & full Asphalt coated)
122 LF 24" RCP @ 0.40%
Alt. 122 LF 24" CMP @ 0.40%
(Fully Paved & full Asphalt coated)
224 LF 18" RCP @ 0.96%
Alt. 224 LF 18" CMP @ 0.96%
(Full Asphalt coated)
Existing Ground
Proposed T.C.
8" AC Pipe
12" AC Pipe
Water line (potential conflict)
8" San Sewer
220
215
210
210.10
210.16
210.22
210.28
210.34
210.40
210.46
210.90
211.00
211.10
211.20
211.30
212.52
212.76
213.00
213.24
213.48
213.72
213.96
213.20
214.44
5
6
7
8
9
10
Line E

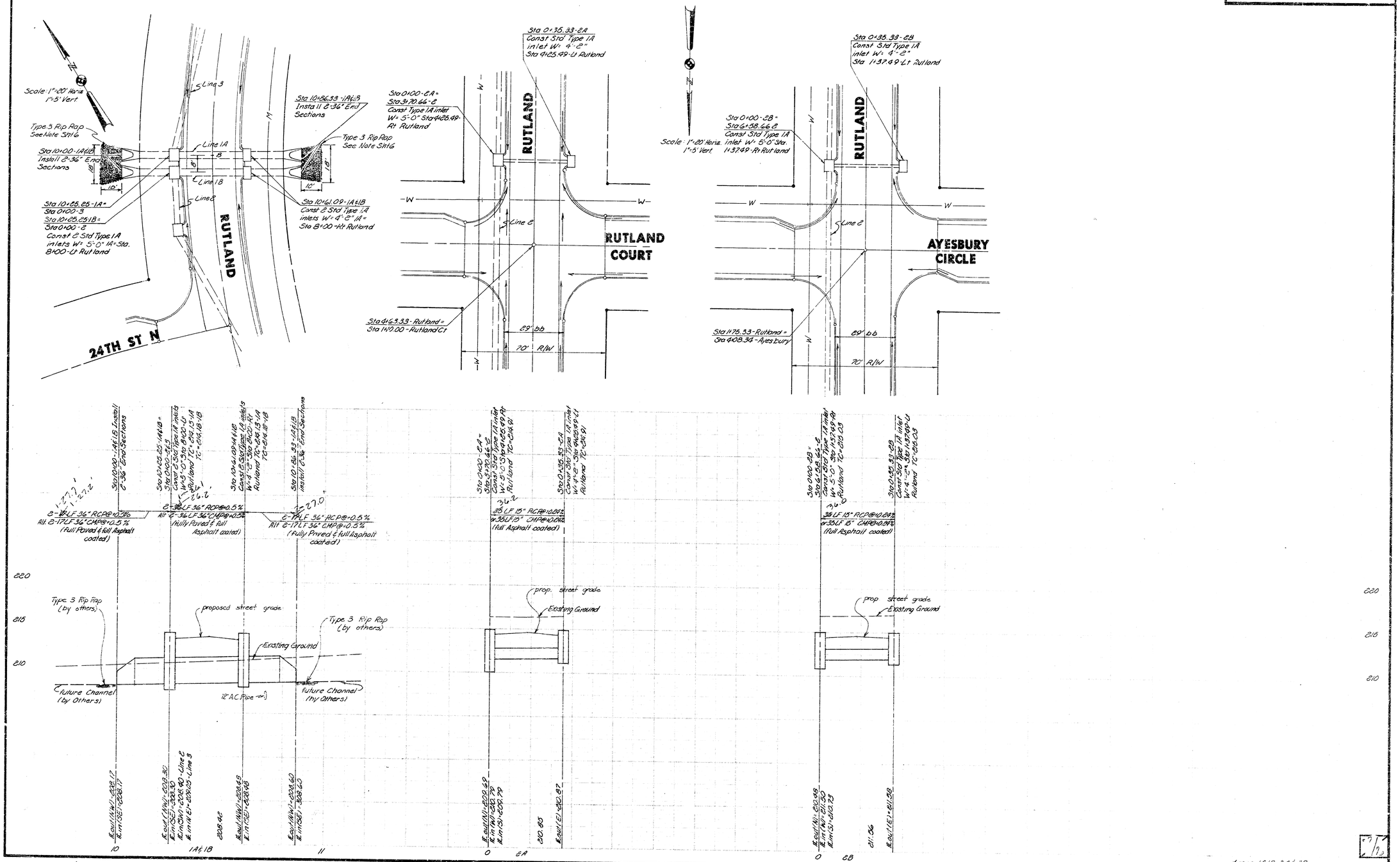


Block 3
Lot 1
Lot 7
Lot 8
Lot 18
Lot 21
Block 5
Reserve & Floodway
24TH STREET NORTH
24TH ST. COURT
24TH STREET COURT
Scale: 1" = 20' Horz 1" = 5' Vert
Scale: Horiz. - 1" = 20' Vert - 1" = 5'
Drainage Esmt.
Sta 10+04.78-24th St. N. Sta. 0+00 24th St. Ct.
Sta 11+13.78-24th St. N. Sta 11+00.00-24th St. Ct.
Sta 12+65.80-24th St. N. Sta. 0+00 24th St. Ct.
Line 3A See Sht 5
Line 3B
Line 1A
Line 1B
Const Std Type 1A inlet W=5'-0"
Const Std Type 1A inlet W=4'-2"
prop. street grade
existing ground
177.4
259.2
LF 27" RCP @ +0.32%
Alt 176 LF 27" CMP @ +0.32% (Fully Paved & Full Asphalt coated)
LF 24" RCP @ +0.34%
Alt 258 LF 24" CMP @ +0.34% (Fully Paved & Full Asphalt coated)
6" A.C. Pipe
8" San sewer
220
215
210
209.13
209.21
209.29
209.37
209.45
209.53
209.95
210.03
210.12
210.20
210.29
210.37
210.46
210.54
210.63
210.71
0
1
2
3
4
0
3B
Line 3 & 3B


24TH STREET COURT
24TH STREET NORTH
24TH COURT
24TH STREET
Lot 13
Lot 14
Lot 19
Lot 21
Lot 22
Lot 27
Lot 28
115.00'
121.55'
Line 3B
Line 3A
Scale: Horiz.-1"=20' Vert.-1"=5'
Sta 8+13.62-3 Const Std Type 1A inlet W= 4'-2" Sta 0+55-Lt 24th St Ct
Sta 8+48.96-3 Const Std Type 1A inlet W= 4'-2" Sta 0+55-Rt 24th St Ct.
Sta 16+43.80 24th St N Sta. 0+00 24th St Ct.
Sta 14+30.96 24th St N Sta. 11+75.73 24th St Ct.
Sta 13+33.80 24th St N Sta. 0+00 24th St Ct.
Sta 0+33.20-3 Sta 0+00-3B Const Std Type 1A inlet W= 5'-0" Sta 16+62.95-Rt 24th St N
Sta 7+41.20-3 Const Std Type 1A inlet W= 4'-2" Sta 16+36.22-Rt 24th St N.
Sta 0+96.00-3A Const Std Type 1A inlet W= 4'-2" Sta 0+47.50-Rt 24th St Ct
Sta 0+40.90-3A Const Std Type 1A inlet W= 4'-2" Sta 0+47.50-Lt 24th St Ct.
Drainage Easmt
Sta 0+00-3A = Sta 11+75.0-3 Const Std Type 1A inlet W= 4'-2" Sta 2+49.86-Lt 24th St N
Sta 10+04.78 24th St N Sta 0+00-24th St Ct
Sta 4+33.20-3 Sta 0+00-3B Const Std Type 1A inlet W= 5'-0" Sta 16+62.95-Rt 24th St N
Sta 8+13.62-3 Const Std Type 1A inlet W= 4'-2" Sta 0+55-Lt 24th St Ct
Sta 8+48.96-3 Const Std Type 1A inlet W= 4'-2" Sta 0+55-Rt 24th St Ct
Sta 0+00-3A = Sta 11+25.0-3 Const Std Type 1A inlet W= 4'-2" Sta 2+49.86-Lt 24th St N
Sta 0+96.00-3A Const Std Type 1A inlet W= 4'-2" Sta 0+47.50-Rt 24th St Ct
307.9
308 LF 18" RCP @ +0.90% or 308 LF 18" CMP @ +0.90% (Full Asphalt coated)
73
72 LF 15" RCP @ 0.30% or 72 LF 15" CMP @ 0.30% (Full Asphalt coated)
36
36 LF 15" RCP @ 0.30% or 35 LF 15" CMP @ 0.30% (Full Asphalt coated)
41 LF 15" RCP @ 0.30%
41 LF 15" CMP @ 0.30% (Full Asphalt coated)
55
55 LF 15" RCP @ 0.30%
55 LF 15" CMP @ 0.30% (Full Asphalt coated)
existing ground
proposed street grade
prop. street grade
W=4' A.C. Pipe
E. out (W) = 210.74
E. in (S) = 211.23
E. in (E) = 211.49
E. out (W) = 209.02
E. in (N) = 209.27
E. in (E) = 209.52
E. out (S) = 204.37
E. in (E) = 204.62
E. out (S) = 209.61
E. in (N) = 210.61
E. in (E) = 210.86
E. out (S) = 210.74
E. in (E) = 210.99
E. out (S) = 210.86
E. in (E) = 211.11
211.38
211.61
211.83
212.06
212.28
212.51
212.73
212.96
213.18
213.41
213.63
213.86
214.08
214.13
214.35
214.58
214.80
214.83
215.05
215.28
215.50
215.73
215.95
216.18
216.40
216.63
216.85
217.08
217.30
217.53
217.75
217.98
218.20
218.43
218.65
218.88
219.10
219.33
219.55
219.78
220.00
220.23
220.45
220.68
220.90
221.13
221.35
221.58
221.80
222.03
222.25
222.48
222.70
222.93
223.15
223.38
223.60



Scale: 1"=20' Horz.
1"=5' Vert.
Type 3 Rip Rap See Note
Reserve & Flood way
14'
20' Drainage Esmt.
Lot 14
Lot 15
Lot 7
Lot 13
Lot 18
Lot 11
Lot 10
24 TH ST. N.
GOVERNEOUR CIRCLE
Sta 6+25.58-4= Sta 0+00-4A Const Std Type 1A inlet W= 4'-2"
Sta 7+64.34-4 Const Std Type 1A inlet W= 4'-2" Sta 6+01.18 Rt- Governeour Circle
Sta 8+40.02-4 Const Std Type 1A inlet W= 4'-2" Sta 5+25.50 Rt- Governeour
Line 4
167°19'14"
35' R
50' R
Sta 0+09.09-4A Const Std Type 1A inlet W= 4'-2"
Sta 8+74.86-4 Const Std Type 1A inlet W= 4'-2" Sta 5+85.50 Lt- Governeour
Sta 5+63.38-Governeour = Sta 0+00-24th St. N.
Sta 7+02.34-Governeour Cir Center of Cul-de Sac
Type 3 Rip Rap
End Section
RCP or CMP
Note: Type 3 Rip Rap. 12" Rip Rap on a 6" sand & gravel bedding. Size range for 12" Rip Rap shall be a max of 1 cubic ft and a min of 1½". The 6" bedding shall be of sand and gravel or sand and crushed rock reasonably well graded to a max. size of 1½".
184 LF of Channel
130 LF 27" RCP @+0.6% or 130 LF 27" CMP @+0.6% (Fully Paved & Full Asphalt coated)
139 LF 18" RCP @+1.0% or 139 LF 18" CMP @+1.0% (Full Asphalt coated)
76 LF 18" RCP @+1.0% or 76 LF 18" CMP @+1.0% (Full Asphalt coated)
Proposed Street Grade
Existing Ground
4' Bottom Channel @+0.20% w/4:1 Side Slope
8" AC Pipe
8" San Sewer
215
210
205
200
203.93
203.98
204.03
204.08
204.13
204.18
204.23
204.28
204.33
204.35
204.50
204.65
204.80
204.95
205.84
206.09
206.34
206.59
206.84
207.19
207.44
207.69
3
4
5
6
7
8
Line 4 & 4A


Scale: 1"=20' Horiz.
1"=5' Vert.
Type 3 Rip Rap See Note Sht 6
Sta 10+00 - 1A & 1B Install 2-36" End Sections
Sta 10+25.25 - 1A = Sta 0+00 - B Const 2 Std Type 1A inlets W= 5'-0" 1A = Sta. 8+00 - Lt Rutland
Sta 10+56.33 - 1A & 1B Install 2-36" End Sections
Type 3 Rip Rap See Note Sht 6
Sta 10+61.09 - 1A & 1B Const 2 Std Type 1A inlets W= 4'-8" 1A = Sta 8+00 - Rt Rutland
Line 3
Line 1A
Line 1B
Line 2
RUTLAND
24TH ST N
Sta 0+35.33 - 2A Const Std Type 1A inlet W= 4'-2" Sta 9+25.49 - Lt Rutland
Sta 0+00 - 2A = Sta 3+70.66 - B Const Type 1A inlet W= 5'-0" Sta 9+25.49 - Rt Rutland
RUTLAND
RUTLAND COURT
Sta 4+63.33 - Rutland = Sta 14+70.00 - Rutland Ct
89' bb
70' R/W
Sta 0+35.33 - 2B Const Std Type 1A inlet W= 4'-2" Sta 11+37.49 Lt Rutland
Sta 0+00 - 2B = Sta 6+58.66 - B Const Std Type 1A inlet W= 5'-0" Sta 11+37.49 - Rt Rutland
RUTLAND
AYESBURY CIRCLE
Sta 11+75.33 - Rutland = Sta 4+08.34 - Ayesbury
89' bb
70' R/W
Sta 10+00 - 1A & 1B Install 2-36" End Sections
Sta 10+25.25 - 1A = Sta 0+00 - B Const 2 Std Type 1A inlets W= 5'-0" 1A = Sta 8+00 - Lt Rutland
2-18" LF 36" RCP @ 10.3%
All 2-17 LF 36" CMP @ 10.5%
(Full Paved & full Asphalt coated)
Sta 10+56.33 - 1A & 1B Install 2-36" End Sections
2-18" LF 36" RCP @ 10.5%
All 2-17 LF 36" CMP @ 10.5%
(Fully Paved & full Asphalt coated)
Sta 10+61.09 - 1A & 1B Install 2-36" End Sections
2-17 LF 36" RCP @ 10.5%
All 2-17 LF 36" CMP @ 10.5%
(Fully Paved & full Asphalt coated)
Type 3 Rip Rap (by others)
proposed street grade
Existing Ground
Type 3 Rip Rap (by others)
future Channel (by Others)
18" A.C. Pipe
future Channel (by Others)
220
210
Sta 0+00 - 2A Const Std Type 1A inlet W= 5'-0" Sta 9+25.49 - Rt Rutland TC = 274.91
35 LF 15" RCP @ 10.0%
or 35 LF 15" CMP @ 10.0%
(full Asphalt coated)
prop. street grade
Existing Ground
Sta 0+00 - 2B Const Std Type 1A inlet W= 5'-0" Sta 11+37.49 - Rt Rutland TC = 276.91
Sta 0+00 - 2B Const Std Type 1A inlet W= 5'-0" Sta 11+37.49 - Rt Rutland TC = 278.03
35 LF 15" RCP @ 10.0%
or 35 LF 15" CMP @ 10.0%
(full Asphalt coated)
prop. street grade
Existing Ground
Lines 1A, 1B, 2A & 2B