STORM SEWER CURVE DATA

LINE	NO.	Δ	R	T	L
C	1	6°07'36"	325.00'	17.39'	34.75'
C	2	4°09'34"	1021.50'	37.10'	74.16'
C	3	24°05'38"	100.00'	21.34	42.50'
C	4	18°57'36"	503.00'	83.99'	166.45'
D	5	14°33'01"	100.00'	12.77'	25.39'
D	6	22°48'18"	100.00'	20.17'	39.80'
B	7	09°41'52"	494.00	41.91'	83.61'

Revisions	Date	Description	Drawn By	Checked By

Sawcut, Remove & Replace Existing Conc. Pavement See Detail for Street Repair.

MEADOWCREEK CIRCLE

Exist. 14' Inlet To Be Relocated & Depression To Be Removed

Proposed 14' Inlet T.C. To Match Grade T.C.~586.92 I.E.~582.92

Abandon 18" R.C.P. And To Be Plugged with A 2'-Coarse Brick Plug.

Ex. 36" R.C.P.

Ex. 18" R.C.P.

LES LACS AVENUE

27.69'

5'

P.C. 0+00 ~ Line 'C' = 5+90.64 Ex. Ln. 'D' Connect to Exist. Type 'B' Manhole

1+08.91 ~ Line 'C' Const. Type "B" M.H.

Sawcut, Remove & Replace Exist. Conc. Pavement See Dtl. for Str. Repair.

Ex. 12" WH. ?

0+06 ~ Ln. 'A' End 24" R.C.P.

0+03.20 ~ Ln. 'A' = 0+00 ~ Ln. 'B' 45° Factory Wye

0+00 ~ Ln. 'A' Remove Ex. 14' Curb Inlet & Conn. to Ex. 24" R.C.P.

Exist. 14' Inlet to be Removed.

Q100 = 5.00 cfs

Q100 = 2.56 cfs

Q100 = 4.10 cfs

Ex. 33" R.C.P.

Ex. 24" R.C.P.

24" R.C.P.

Ex. S.S. M.H.

Ex. 8" S.S.?

18" R.C.P.

Q100 = 6.46 cfs

0+40.96 Line 'B' = Lat. 'B-3', 0.00 I.E. = 586.63

0+29.53 ~ Line 'B' = P.C. 0+00 ~ Lat 'B-1' 45° Factory Wye

Proj. Sta. 0+61.00 0+12.75 ~ Lat 'B-1' Constr. 10' Inlet (Mod.) Top ~ 589.59 I.E. ~ 586.66

LAT. 'B-3'

18" R.C.P.

Q100 = 13.05 cfs

Proj. Sta. 0+61.00 0+19.11 Lat 'B-2' Constr. 10' Inlet (Mod.) T.C. ~ 589.59 I.E. ~ 586.82

P.T. 0+34.75 ~ Line 'C' = Const. Type "B" M.H.

0+80.61 = Lat. 'B-3' 0+00 Lat. 60° Factory Wye

0+83.61 End I.E. = 587.00

Proj. 8" S.S.?

Exist. 8" WH.

CHATHAM COURT DRIVE

LAKEWAY COURT

Line 'C' ?

Proj. 8" S.S.?

Cap & Vent

Q100 = 2.06 cfs

P.R.C. 1+50.96

3+08.72 Ln. 'C' = 0+00 Lat. 'C-3'

Proj. Sta. 2+27.34 = 0+18.95 Lat. 'C-3' Const. 10' Inlet (Mod.) T.C. 593.95 I.E. 590.04

3+17.41 Ln. 'D' End 18" RCP

Q100 = 6.45 cfs

3+14.41 Ln. 'C' = 0+00 Lat. 'C-4'

Proj. Sta. 2+29.62 = 0+12.17 Lat. 'C-4' 0+09.24 10' Inlet (Mod.) T.C. 593.96 I.E. 590.05

Proj. Sta. 1+36.75 0+08 ~ Lat. 'B-4' Const. 8" Inlet (Mod.) Top ~ 590.85 I.E. ~ 587.10

Sawcut, Remove & Replace Exist. Conc. Pavement See Detail for Street Repair.

Ex. 18" WH. ?

Q100 = 3.55 cfs

Q100 = 0.65 cfs

Q100 = 0.65 cfs

Prop. 10' San. Esmt.

Prop. 8" S.S.?

0+00 ~ Line 'D' = 9+69.39 Exist. Line 'E' Connect to Exist. 24" R.C.P Construct Type "B" M.H.

5'

Prop. 10' Drng. Esmt.

Line "D"

Prop. 24" R.C.P.

2+84.92 ~ Line 'D' = 0+00 ~ Lat. 'D-1'

Contractor to minimize open trench area in order to connect to existing 24" Line

10' San. Swr. Esmt.

Ex. 8" S.S.

(Ex. 39" R.C.P.

10' Stm. Drng. Esmt.

Q100 = 4.9 cfs

Ex. 36" R.C.P.

Q100 = 4.9 cfs

Ex. 8" S.S.?

Prop. 8" WH.

LES LACS AVENUE

MEADOWCREEK CIRCLE

Proj. Sta. 3+02.50 0+21.53 Lat 'D-1' Constr. 10' Inlet Top ~ 590.67, I.E. ~ 586.67

Q100 = 7.7 cfs

Prop. 8" S.S.?

Proj. Sta. 3+02.50 0+23.34 Lat 'D-2' Constr. 10' Inlet Top ~ 590.67, I.E. ~ 586.67

Prop. 10' Drng. Esmt.

P.C. 4+23.15

3+13.45 Ln. 'D' = 0+00 Lat 'D-2' Const. Type "B" M.H.

Proj. Sta. 3+80 0+09.10 Lat 'D-2' Constr. 10' Inlet T.C. ~ 593.50 I.E. ~ 589.50

Prop. 18" R.C.P.

P.T. 4+48.55

P.C. 5+43.04

5+49.06 ~ Ln. 'D' = 0+00 ~ Lat. D-3'

Proj. Sta. 3+80 5+32.84 Line 'D' Constr. 10' Inlet

Q100 = 7.7 cfs

Q100 = 7.7 cfs

Prop. 8" S.S.?

Prop. 8" WH.

WATERFORD DRIVE

WATERSIDE COURT

EXIST CONC PAVEMENT

12" MIN | UNDISTURBED TRENCH BANK | 12" MIN

SAW JOINT 1 1/2" MIN. DEPTH DO NOT CUT REINFORCING STEEL

NO 3 BARS ON 18" CENTERS BOTH WAYS & LAPPING EXIST BARS 12"

6" MIN 3000 P.S.I. CONC (MATCH EXIST THICKNESS IF MORE THAN 6" THICK)

#3 Dowels - 18" Long Spacing 18" O.C. (Typical Both Sides)

PROPOSED PIPE

CONCRETE STREET OR DRIVEWAY REPAIR

DRAINAGE GENERAL NOTES

1. All reinforced concrete pipe shall be Class III unless otherwise noted.
2. The location of all utilities are taken from existing public records. The exact location must be determined by the Contractor. It is the duty of the Contractor to ascertain whether any other facilities (additional), other than those on the plans may be present.
3. Embedment is subsidiary to RCP.
4. All backfill shall be compacted to 95% Standard Proctor Density in a maximum of six 8" loose lifts. Moisture shall be from 0 to +3% of optimum.
5. No precast inlets are allowed.
6. All work and materials shall be in accordance with the Town of Addison Standards and Specifications and to contract specifications and documents.
7. All curved storm sewers having a radius of less than 200 feet shall be constructed with factory beveled joints. No joints will be allowed to have a tongue exposed by more than one-half.

NOTE: FRAME AND COVER SHALL BE CAST IRON CONFORMING TO ASTM SPEC A-48 FOR CLASS 30 CAST IRON

PROVIDE 3/4" PREMOLDED EXPANSION JOINT BETWEEN MANHOLE AND CONCRETE PAVEMENT AND SEAL WITH HOT POURED RUBBER

BARS "A" - 3/8" ø SPACED AS SHOWN

BARS "B" - 3/8" ø SPACED AS SHOWN

TOP PLAN

TYPE A & TYPE B STORM SEWER MANHOLE

NOTE MAXIMUM PIPE SIZE TO BE USED 78"

ELEVATION

SECTION A-A

TYPE B STORM SEWER MANHOLE

(FOR PIPE 33" TO 78" IN DIAMETER)

NOTE:
① STRUCTURAL CONCRETE TO BE MIN. 4000 PSI UNLESS NOTED.

LINE 'A'

Existing 14' Inlet to be Removed Connect Prop. 24" RCP to Exist 24" RCP

Ex. 8" S.S. 4.25% Fl.

6 L.F. ~ 24" @ 0.84%

Ex. 33" R.C.P.

Q100 = 1.95 cfs C = 1.95 cfs V = 2.23 fps S = 0.0001 (Partial Flow)

0+00 ~ Ln. A = 0+03.20 ~ Ln. A

0+03.20 ~ Ln. A = 0+40.96 ~ Ln. B

0+40.96 ~ Ln. B = 0+61.00 ~ Ln. B

0+61.00 ~ Ln. B = 0+80.61 ~ Ln. B

0+80.61 ~ Ln. B = 0+83.61 End 24" R.C.P.

LINE 'B'

Q = 24" Q100 = 1.95 cfs C = 1.95 cfs V = 6.2 fps S = 0.0014

Q = 24" Q100 = 12.10 cfs C = 12.10 cfs V = 3.85 fps S = 0.0029

Q = 33" Q100 = 6.2 cfs C = 6.2 cfs V = 7.87 fps S = 0.0054

Q = 24" Q100 = 34.2 cfs C = 34.2 cfs V = 10.88 fps S = 0.0123

(Prop. Punch)

60 L.F. ~ 24" @ 0.74 %

Ex. 24" @ 1.40%

Ex. 39" @ 0.190%

0+00 ~ Line 'D' = 9+69.39 Exist. Line 'E'

0+21.53 ~ Ln. D = 0+00 ~ Ln. D

0+23.34 ~ Ln. D = 0+21.53 ~ Ln. D

0+09.10 ~ Ln. D = 0+00 ~ Ln. D

5+32.84 ~ End Ln. D = 5+23.74 ~ Ln. D

0+00 ~ Ln. D = 0+09.10 ~ Ln. D

5+23.74 ~ Ln. D = 5+09.06 ~ Ln. D

5+09.06 ~ Ln. D = 5+00 ~ Ln. D

Q = 24" Q100 = 27.1 c.f.s. C = 27.1 c.f.s. V = 3.62 fps S = 0.142

Q = 24" Q100 = 19.4 c.f.s. C = 19.4 c.f.s. V = 6.17 fps S = 0.0074

Q = 18" Q100 = 11.7 c.f.s. C = 11.7 c.f.s. V = 6.62 fps S = 0.0124

Q = 18" Q100 = 5.85 c.f.s. C = 5.85 c.f.s. V = 3.31 fps S = 0.0031

Prop. Grade ?

H.G.L. ?

316 L.F. ~ 24" @ 1.44%

269 L.F. ~ 18" @ 1.29%

Q = 18" Q100 = 7.4 c.f.s. C = 7.4 c.f.s. V = 4.2 f.p.s. S = 0.0050

0.80 L.F. ~ 18" @ 0.85%

LINE 'D'

LAT. 'B - 3'

595 / 590 / 585 / 580

0 1 2 3 4 5 6

AS BUILTS

I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

STATE OF TEXAS — TIMOTHY JOHN NELSON — 68647 — REGISTERED PROFESSIONAL ENGINEER

STATE OF TEXAS — PHILIP C. NELSON — 5241 — REGISTERED PROFESSIONAL ENGINEER

DRAINAGE PLAN & PROFILE

WATERFORD PARK II

TOWN OF ADDISON, TEXAS

THE NELSON CORPORATION
LAND PLANNING • ENGINEERING • SURVEYING
5999 SUMMERSIDE DRIVE • SUITE 202 • DALLAS, TEXAS 75252 • (214) 380-2605

DESIGN	DRAWN	DATE	SCALE	FILE	SHEET NO.
		NOV. 1991	1"=40'H 1"=6'V	90025-6	DR-1

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