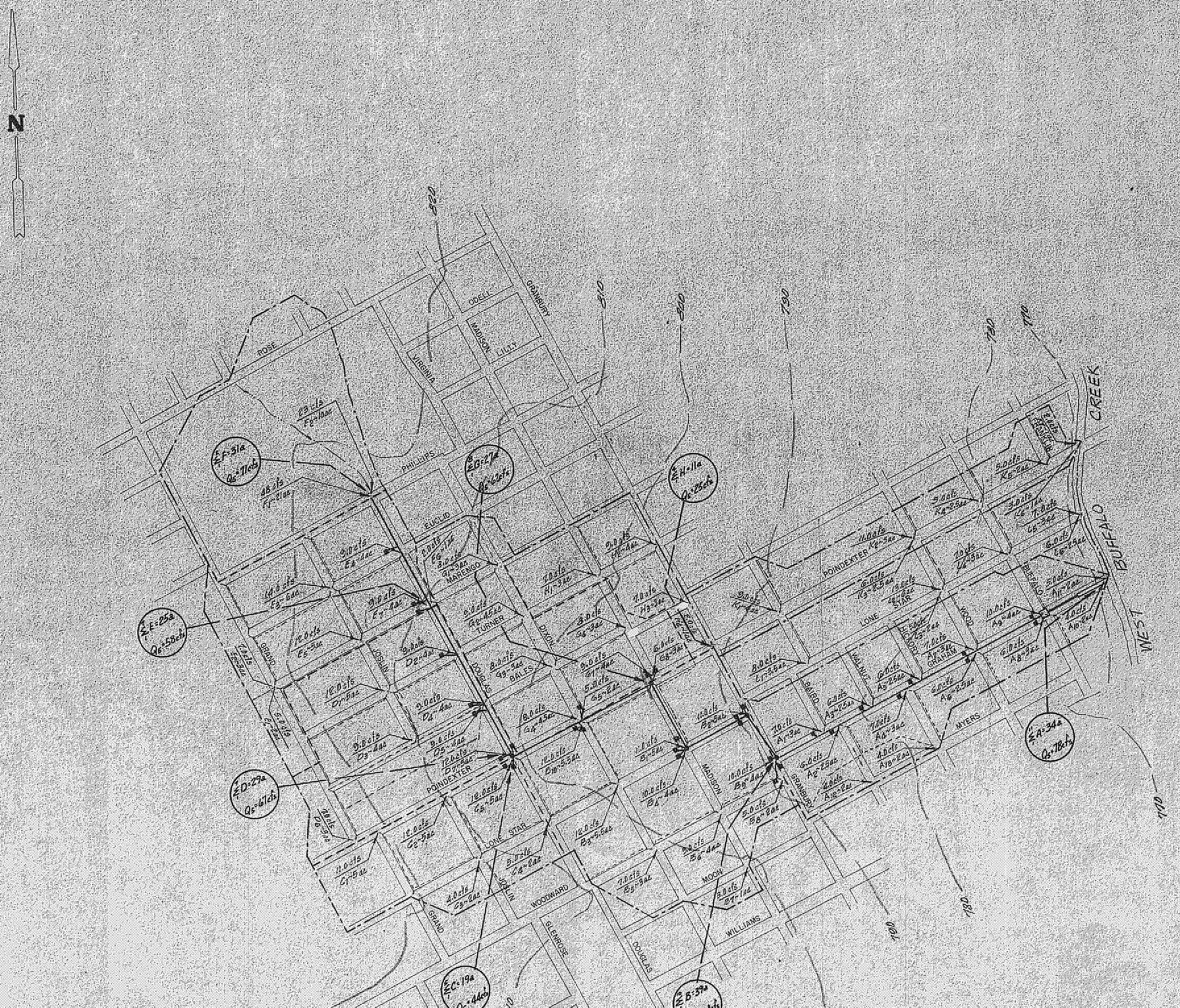


N
ROSE
ODELL
GRANBURY
MADISON
LILLY
VIRGINIA
PHILLIPS
EUCLID
MARENGO
TURNER
DIXON
BALES
DOUGLAS
JOSLIN
GRAND
PONDEXTER
LONE STAR
WOODWARD
GLENROSE
MOON
WILLIAMS
MYERS
WEST BUFFALO CREEK
ΣF=31a Q5=71cfs
ΣG=27a Q5=62cfs
ΣH=11a Q5=25cfs
ΣE=25a Q5=58cfs
ΣD=29a Q5=67cfs
ΣC=19a Q5=44cfs
ΣB=39a Q5=90cfs
ΣA=34a Q5=78cfs
820
810
800
790
780
770

DRAINAGE AREA MAP

DESIGN DATA

Inlet Time : 15 Min
I_5 = 4.8
C = 0.48
Q_5 = CIA, = 2.30A

CONTRAC

CITY OF CLE

STORM SEWER

GRAHAM S

Riewe & Wischmey
CONSULTING ENGINE
DALLAS, TEXAS

JOB NO. 7218
SHEET

14'-0"
14'-0"
10'-0"
10'-0"
5'-0"
5'-0"
Slope 2:1
Slope 2:1
Slope 1:1
Slope 1:1
Slope 3/4"/Ft.
Profile Elev.
4"
4"
5'-0"
#4 CONT.
6"
12"
6"x6"x6" Wire Mesh
3"ϕ Weep Holes @ 12' cntrs
18"x12" Continuous Gravel Trenches Each Side
NOTE: Reinforce Concrete With 6x6x6 Wire Mesh, Sides & Bottom
DETAIL
CONC. LINED OPEN CHANNEL
Sta 0+80 To 2+50
No Scale
WEST BUFFALO CRK.
6" Sani Swr on Piers
Grade To Creek
456 Sq.Yds. Conc.
Dirt Street
Gravel Street
Survey Line
GRAHAM (Asph. Pvmt)
ST.
9'x6' Conc. Box Culvert
Std. T.H.D. SC-NB
6" Sani Swr
12" Sani Swr
6" Water
8" Water
84" Conc. Pipe
Q=4.0cfs
Q=6.0cfs
Q=10.0cfs
Q=5
1-S-F
1-S-F Garage
Gravel Drive
BUFFALO ST.
24" Sani Swr
4" Gas
5+07 ₵ 84"ϕ = 0+00 LAT#1
₵ 6' Inlet 5+25 Top 770.30 ℞ 766.30
5+23 ₵ 84"ϕ = 0+00 LAT#2
₵10' Inlet 5+30 Top 770.40 ℞ 766.40
MATCH LINE 6+00
0+80~ Begin Open Channel
2+50~ Begin 117"x79" C.M. Arch Pipe
Conc. Lined Open Channel
Q5=471
Q25=509
Q50=548
C=576
V=7.7
S=0.001
n=0.015
H.G. 767.36
H.G. 767.61
H.G. 767.64
H.G. 767.90
H.G. 767.37
H.G. 768.01
9'x6' Conc. Box Culvert
Q=461
V=9.7
C=522
S=0.0020
OPEN CHANNEL @ 0.10%
9' WIDE X 6' HIGH REINF. CONC. BOX CULVERT @ 0.10%
12" Toe Wall
1'-0"
6'-0"
4+70.0
JUNCTION BOX
4+80.0
5+00.8 4" Sani. Swr.
5+07=0+00 LAT#1
5+18.2± Water
5+23=0+00 LAT#2
84" Conc. Pipe
Q=461
V=12.2
C=465
S=0.0053
℞ 766.3
Top 765.9
84" on 0.11%
Ex. 24" C.I. Sani. Swr. To Remain In Place
36 L.F. Crushed Rock Cushion
84"
1'-0"
3'-0"
770
765
760
INST. 170 L.F. OF CONC. LINED OPEN CHANNEL
INSTALL 230 L.F. OF 9'x6' REINF. CONC. BOX CULVERT
110 L.F. 84" CONC. PIPE
PLAN NOTES: BK #3
℞ 759.51
℞ 759.59
℞ 759.76
℞ 759.98
℞ 759.99
℞84" 760.02
℞18" 762.77
℞84" 760.04
℞21" 762.67
℞ 760.12
0
1
2
3
4
5
6

GENERAL NOTES

1. ALL UTILITY RELOCATIONS TO BE PERFORMED UNDER SEPARATE CONTRACT, EXCEPT AS NOTED.
2. STREETS ARE TO REMAIN OPEN TO LOCAL AND EMERGENCY TRAFFIC DURING CONSTRUCTION.
3. PAVEMENT REPLACEMENT AND PIPE EMBEDMENT TO BE AS SHOWN ON DETAIL SHEET 16.
4. WHERE CURB HEIGHTS GREATER THAN 6" ARE ENCOUNTERED, STANDARD INLETS ARE TO BE ADAPTED TO MEET EXISTING CONDITIONS. (STA. 4+00± TO 9+00±)

Sta. 4+70.0 to 4+80.0~ Const. Reinf. Conc. Junction Box. Pour Box Around Exist. 24" C.I. Sani. Swr. Replace Exist. Asph. Pvmt w/ 6" Reinf. Conc. Pvmt
SEE DETAIL SHEET

₵ REVERSE CURVE (4+79.0 to 5+21.84)
Δ= 5°21'16"
R= 229.18'
T= 10.72'
L= 21.42'

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

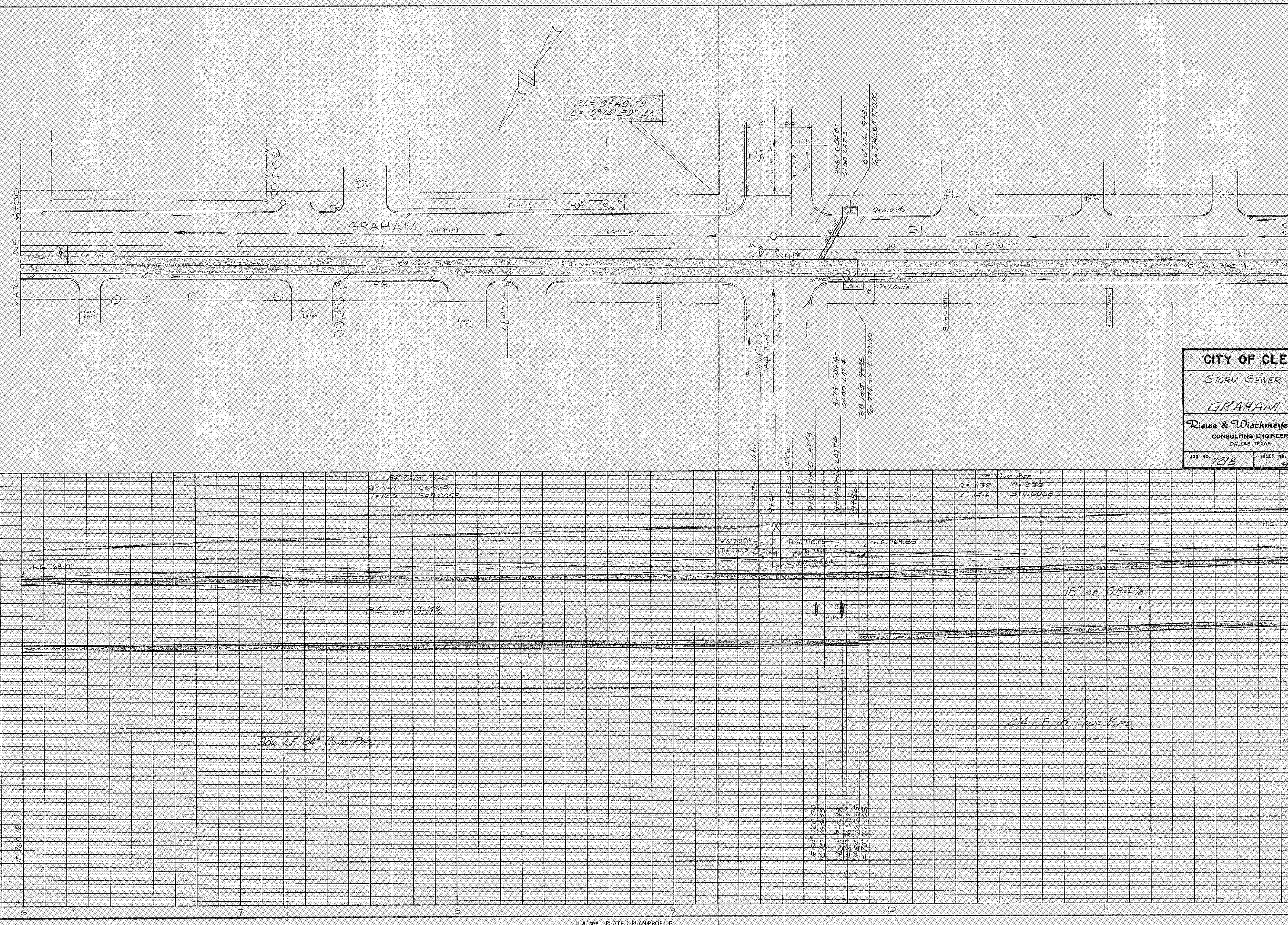
Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 3

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.


P.I. = 9+49.75
Δ = 0°14' 30" Lt.
MATCH LINE 6+00
GRAHAM (Asph. Pvmt.)
ST.
WOOD (Asph. Pvmt.)
ST.
Survey Line
12" Sani. Swr.
8" Water
84" Conc. Pipe
78" Conc. Pipe
Water
Conc. Drive
Conc. Drive
Conc. Drive
Conc. Drive
Conc. Drive
Conc. Drive
Conc. Drive
5' Conc. Walk
5' Conc. Walk
5' Conc. Walk
5' Conc. Walk
4" Gas
4" Gas
6" San. Swr.
6" San. Swr.
31'
B.B.
17'
14'
WV
WV
9+49.75
18" R.C.P.
21" R.C.P.
Q=6.0 cfs
Q=7.0 cfs
9+67 ℄ 84" ⌀ = 0+00 LAT 3
℄ 6' Inlet 9+83
Top 774.00 ℄ 770.00
9+79 ℄ 84" ⌀ = 0+00 LAT 4
℄ 8' Inlet 9+85
Top 774.00 ℄ 770.00
7
8
9
10
11
Water
9+42 ~
9+48
9+55.5 ~ 4" Gas
9+67=0+00 LAT #3
9+79=0+00 LAT #4
9+86
84" Conc. Pipe
Q=461 C=465
V=12.2 S=0.0053
78" Conc. Pipe
Q=432 C=435
V=13.2 S=0.0068
H.G. 768.01
℄ 6" 770.24
Top 770.3
H.G. 770.05
Top 770.5
℄ 12" 768.64
H.G. 769.85
H.G. 77
84" on 0.11%
78" on 0.84%
386 L.F. 84" Conc. Pipe
214 L.F. 78" Conc. Pipe
℄ 760.12
℄ 84" 760.58
℄ 18" 763.33
℄ 84" 760.49
℄ 21" 763.14
℄ 84" 760.55
℄ 78" 761.05
6
7
8
9
10
11

CITY OF CLE

STORM SEWER

GRAHAM

Riewe & Wischmeye

CONSULTING ENGINEER

DALLAS, TEXAS

JOB NO. 7218

SHEET NO. 4

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

MATCH LINE 12+00
GRAHAM
ST.
WALNUT ST. (Asph. Pvmt.)
HICKORY ST. (Gravel)
WALNUT ST. (Gravel)
12" Sani Swr
Water
Survey Line
78" Conc. Pipe
72" Conc. Pipe
13+01⁸⁰
13
14
14+18⁷⁵
15
16
16+38¹⁵
17
Q=6.0 cfs
Q=8.0 cfs
Q=7.0 cfs
Q=6.0 cfs
18" R.C.P.
24" R.C.P.
St. Sign
44.0'
14+12 78" ∅= 0+00 LAT #6
0+31 LAT #6= 0+00 LAT #7
℄ 8' Inlet ~ 35° Lt. ℄ Top 777.80 ℄ 773.80
℄ 6' Inlet ~ 14+53 Top 777.70 ℄ 773.70
13+36 78" ∅= 0+00 LAT #5
6' Inlet 13+42 Top 776.90 ℄ 772.90
16+66 ~ 72" ∅= 0+00 LAT #8
℄ 6' Inlet 16+72 Top 779.60 ℄ 775.60
6" Sani Swr
4' Gas
Conc. Drive
Gravel Drive
Dirt Drive
4' Conc. Walk
WM
PP
FH
MATCH LINE 18+00
78" Conc. Pipe
Q=432 C=435
V=13.2 S=0.0068
13+09.5 6" Sani. Swr.
13+36=0+00 LAT #5
14+12=0+00 LAT #6
14+20
14+29.5 ~ 4" Gas
H.G. 771.30
H.G. 772.30
Top 774.3
H.G. 772.52
78" on 0.84%
72" Conc. Pipe
Q=411 C=411
V=14.5 S=0.0092
16+48 ~ 4" Gas
16+62.5 ~ Water
16+66=0+00 LAT #8
Top 776.0
Top 776.2
H.G. 776.02
72" on 0.84%
780
775
770
765
760
220 L.F. 78" Conc. Pipe
380 L.F. 72" Conc. Pipe
PLAN NOTES. BK #3
℄ 762.85
℄ 78" 764.00
℄ 18" 766.50
℄ 78" 764.62
℄ 24 766.87
℄ 78" 764.70
℄ 72" 765.20
℄ 72" 767.27
℄ 18" 769.52
℄ 768.39
12
13
14
15
16
17
18

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 5

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R. OF WAY CHECKED
BY
DATE

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

SEE SHEET 14
SH. 14 IS INCLUDED IN ITEMS 1 THRU 17
P.C. ℄ STA. EQUATION (-17.19')
22+92.0 Bk. = 23+09.19 Fwd.
Const. 9.0' Dia. M.H.
MATCH LINE 18+00
BAIRD ST. (Gravel)
6" Sani. Swr.
18+81 ~ 72"ɸ = 0+00 LAT #9
℄ 6' Inlet 18+97
Top 781.78 ℄ 777.78
Q=6.0 cfs
18" R.C.P.
GRAHAM
ST.
12" Sani Swr.
Water
72" Conc. Pipe
4" Gas
Conc. Drive
19+98 ~ 72"ɸ = 0+00 LAT #10
21" R.C.P.
Q=7.0 cfs
℄ 8' Inlet 20+04
Top 752.54 ℄ 778.54
BAIRD ST. (Gravel)
Gas
Gravel Drive
Dirt Drive
Survey Line
Stop Sign
ST.
10" Sani. Swr.
LAT #11
23+06⁶⁵
23.76'
90°43'
57.00'
23+06⁶⁵ = 0+00
Granbury South
Replace Ex. 12" Sani. Swr. With
1 Joint Of 12" Cast Iron Pipe.
Not A Separate Pay Item
℄ CURVE
Δ=44°57'52"
R=81.00'
T=33.52'
L=63.57'
P.T.=23+72.76
GRANBURY (Asph. Pvmt.)
12" Sani. Swr.
72" Conc. Pipe
4' Conc. Walk
6' Conc. Ret. Wall
Gravel Drive
MATCH LINE 24+00
72" Conc. Pipe
Q=411 C=411
V=14.5 S=0.0092
72" Conc. Pipe
Q=392 C=392
V=14.0 S=0.0084
72" Conc. Pipe
Q=358 C=360
V=12.8 S=0.0072
18+81 = 0+00 LAT #9
19+98 = 0+00 LAT #10
STA. EQUATION (-17')
22+92.0 Bk = 23+09.19 Fwd
Const. 9.0' Dia M.H.
23+19 Water
23+33 12" Sani. Swr.
H.G. 776.02
H.G. 778.02
H.G. 778.24
H.G. 780.54
H.G. 781.04
H.G. 781.69
72" on 0.84%
72" on 0.84%
IDENTICAL
583 L.F. 72" Conc. Pipe
PLAN NOTES: BK #3
790
785
780
775
770
765
℄ 768.39
℄ 72" 769.07
℄ 18" 777.32
℄ 72" 770.05
℄ 21" 772.17
℄ 72" 772.51
℄ 72" 772.51
℄ 773.27
18
19
20
21
22
23
24

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED:	W.J.W.
APPROVED:	W.J.W.
DATE:	JULY 1973
SCALE:	1"=20' Horiz. 1"=5' Vert.
JOB NO.	7218
SHEET NO.	6

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK No.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M.'s NOTED		
STRUCTURE NOTATIONS CHECKED		
NOTE BOOK No.		

MATCH LINE 27+00
Replace Ex. 6" Sani. Swr. With
2 Joints Of 6" Cast Iron Pipe
Not A Separate Pay Item.
P.T. = 26+69.29
Δ = 46°53'43'
R = 81.00'
T = 35.13'
L = 66.29'
26+14 ~ 72" ⊕ = 0+00 LAT #12
℄ 10' Inlet ~ 26+40 Top 787.35 ℄ 783.35
Q = 10.0 cfs
Q = 11.0 cfs
LONE – STAR – ST. (Asph. Pvmt.)
Survey Line
72" Conc. Pipe
Water
Gravel Drive
℄ 6' Inlet ~ 36± Rt. ℄ Top 787.40 ℄ 783.40
℄ 10' Inlet ~ 26+40 Top 787.30 ℄ 783.30
0+00 LAT #13A
Q = 6.0 cfs
18" R.C.P.
24" R.C.P.
26+19 ~ 72" ⊕ = 0+00 LAT #13
25.65'
36±'
26
26+01.15
4' Conc. Walk
6" Conc. Ret. Wall
GRANBURY (Asph. Pvmt.)
ST.
12" Sani. Swr.
25
24+00
MATCH LINE
P.C. & STA. EQUATION (-21.0')
25+82.0 Bk. = 26+03.0 Fwd.
Const. 9.0' Dia. M.H.
LONE STAR ST. (Asph. Pvmt.)
MATCH LINE 27+00
LONE STAR (Asph. Pvmt.)
ST.
28
29
6" Sani. Swr.
Conc. Drive
MATCH LINE 30+00
N
72" Conc. Pipe
Q = 358 C = 360
V = 12.8 S = 0.0072
STA. EQUATION (21')
25+82 Bk. = 26+03 Fwd.
Const. 9.0' Dia. M.H.
26+14 ~ 0+00 LAT #12
26+17± Water
26+19 ~ 0+00 LAT #13
26+40± 6" Sani. Swr.
72" Conc. Pipe
Q = 347 C = 350
V = 12.5 S = 0.0068
H.G. 781.65
H.G. 783.00
H.G. 783.12
H.G. 785.37
6" Sani. Swr. 6± Lt.
72" on 0.84%
72" on 0.76%
IDENTICAL
579 L.F. 72" Conc. Pipe
PLAN NOTES: BK #3
℄ 773.27
℄ 774.80
℄ 774.80
℄ 72" 774.88
℄ 21" 777.00
℄ 72" 774.92
℄ 24" 776.92
℄ 777.81
790
785
780
775
770
24
25
26
27
28
29
30

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1978
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 7

PLAN NOTE BOOK No. SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED BY DATE

PROFILE NOTE BOOK No. SURVEYED PLOTTED GRADES CHECKED B. M.'s NOTED STRUCTURE NOTATIONS CHECKED BY DATE

N
¢10' Inlet ~ 40' Lt ¢ Top 790.00 Ⓕ 786.00
Q=11.0 cfs
ST.
¢10' Inlet ~ 31+18 Top 789.70 Ⓕ 785.70
¢10' Inlet ~ 40' Lt. ¢ Top 790.00 Ⓕ 786.00
Q=11.0 cfs
Q=11.0 cfs
10'
40.0'
21" R.C.P.
30+91 ~ 72" ⌀ = 0+00 LAT #14
30+75.35
6" Sani. Swr.
P.T.-P.C. & STA. EQUATION (-26.39') 30+64.62 Bk. = 30+91.01 Fwd. Const. 9.0' Dia. M.H.
16°
LONE STAR (Asph. Pvmt.)
Survey Line
6" Sani. Swr.
4' Conc. Walk
MATCH LINE 30+00
P.T. = 31+14.67
31+02 ~ 72" ⌀ = 0+00 LAT #15
PC = 30+25.00
Δ = 28°01'42" R = 81.00' T = 20.22' L = 39.62'
Δ = 16°44'00" R = 81.00' T = 11.91' L = 23.66'
MADISON (Asph. Pvmt.) ST.
72" Conc. Pipe
Conc. Drive
Gravel Drive
4' Conc. Walk
2" Water Line
Survey Line
31
32
33
34
35
20'
36'
B.B.
Δ = 34°26'34" R = 81.00' T = 25.11' L = 48.69'
MATCH LINE 36+00
13.0'
4" Gas
Water
72" Conc. Pipe
POINDEXTER ST. (Asph. Pvmt.)
35+48.14
17.70
LAT. #16
6" Sani. Swr.
Conc. Drive
Replace Ex. 6" Sani. Swr. With 1 Joint Of 6" Cast Iron Pipe. Not A Separate Pay Item.
P.C. & STA. EQUATION (+8.31') 35+44.0 Bk. = 35+35.69 Fwd. Const. 9.0' Dia. M.H.
END PROPOSAL "A" ITEMS 1 THRU 17
41'
B.B.
SEE SHEET 15
SH. 15 INCLUDED IN ITEMS 1 THRU 17
MADISON ST.
795
790
785
780
775
P.T. & P.C. - STA. EQUATION (-26) 30+64.62 Bk. = 30+91.01 Fwd. Const. 9.0' Dia. M.H.
31+02 = 0+00 LAT. #15
H.G. 785.82
H.G. 786.76
H.G. 786.70
72" on 0.76%
72" Conc. Pipe Q = 314 C = 315 V = 11.3 S = 0.0056
72" on 0.393%
P.C. STA. EQUATION (+8') 35+44 Bk. = 35+35.69 Fwd. Const. 9.0' Dia. M.H.
35+46 6" Sani. Swr.
H.G. 789.57
H.G. 789.24
H.G. 789.82
72" Conc. Pipe Q = 291 C = 291 V = 10.3 S = 0.0047
72" on 0.58%
IDENTICAL
582 L.F. 72" Conc. Pipe
PLAN NOTES: BK. #3
Ⓕ 777.82
Ⓕ 778.31
Ⓕ 778.31
Ⓕ 72" 778.35
Ⓕ 21" 780.48
Ⓕ 780.09
Ⓕ 780.09
Ⓕ 780.46
30
31
32
33
34
35
36

CITY OF CLEBURNE, TEXAS

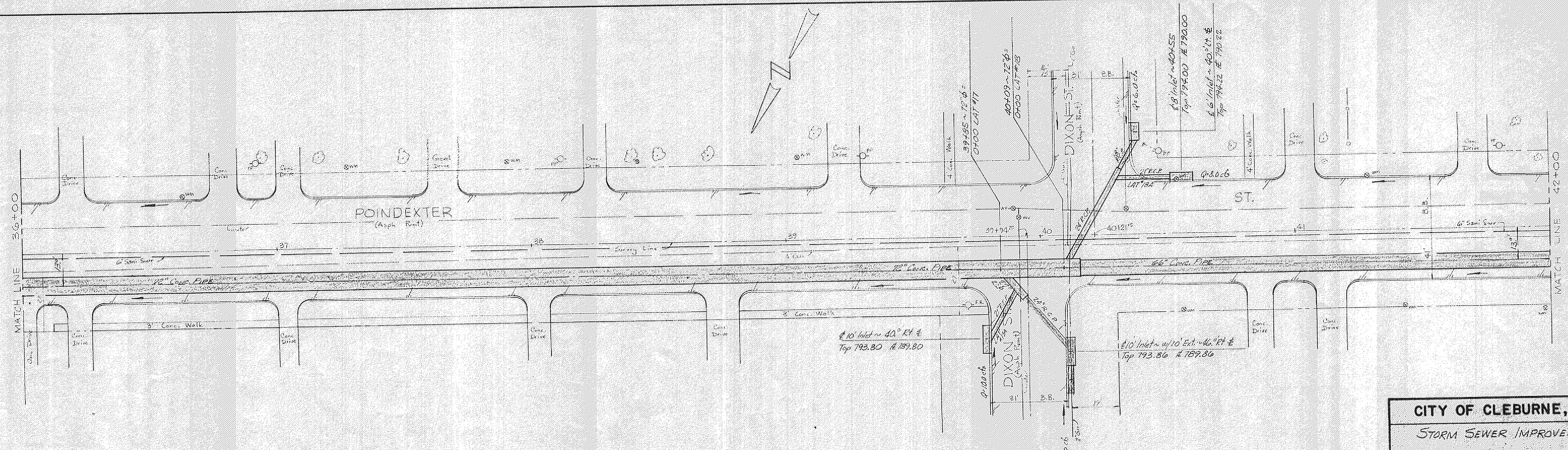
STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

JOB NO. 7218	SHEET NO. 8
DESIGNED: W.J.W.	APPROVED: W.J.W.
DATE: JULY 1973	SCALE: 1" = 20' Horiz. 1" = 5' Vert.

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.


N
MATCH LINE 36+00
MATCH LINE 42+00
POINDEXTER
(Asph. Pvmt.)
ST.
DIXON ST.
(Asph. Pvmt.)
72" Conc. Pipe
66" Conc. Pipe
6" Sani. Swr.
Survey Line
Gutter
3' Conc. Walk
4' Conc. Walk
Conc. Drive
Gravel Drive
37
38
39
40
41
39+94.75
40+21.15
39+95 ~ 72" ∅ = 0+00 LAT #17
40+09 ~ 72" ∅ = 0+00 LAT #18
℄ 8' Inlet ~ 40+55 Top 794.00 ℄ 790.00
℄ 6' Inlet ~ 40.0' Lt. ℄ Top 794.22 ℄ 790.22
Q=6.0 cfs
Q=8.0 cfs
21" R.C.P.
LAT #18A
24" R.C.P.
18" R.C.P.
LAT #17A
℄ 10' Inlet ~ 40.0' Rt. ℄ Top 793.80 ℄ 789.80
℄ 10' Inlet ~ w/10' Ext. ~ 46.0' Rt. ℄ Top 793.86 ℄ 789.86
Q=10.0 cfs
Q=30.0 cfs
31'
B.B.
17'
F.H.
WV
WM

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Hor'l; 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 9

72" Conc. Pipe
Q=291 C=291
V=10.3 S=0.0047
66" Conc. Pipe
Q=240 C=240
V=10.0 S=0.0050
39+95=0+00 LAT #17
39+91.5 ~ Water
40+09=0+00 LAT #18
40+11 ~ 2" Gas
40+15
H.G. 789.21
H.G. 791.82
H.G. 791.91
H.G. 792.84
6" Sani. Swr. Fl. 21
Top 790.3
Top 790.3
72" on 0.58%
66" on 0.68%
415 L.F. of 72" Conc. Pipe
185 L.F. of 66" Conc. Pipe
PLAN NOTES: BK#3
℄ 780.46
℄ 72" 782.69
℄ 30" 784.44
℄ 72" 782.83
℄ 24" 784.83
℄ 72" 782.87
℄ 66" 783.37
℄ 784.63
800
795
790
785
780
36
37
38
39
40
41
42

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

K&E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
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BY
DATE

P.C. & STA. EQUATION (-18.38')
44+50.0 Bk. = 44+68.38 Fwd.
Const. 9.0' Dia M.H.
℄ 10' Inlet 44+51 ℄
Top 796.50 ℄ 792.50
44+80 ~ 54" ⌀ = 0+00 LAT#21
DOUGLAS ST. (Asph. Pvmt)
34'
B.B.
Q=9.0 cfs
℄ 10' Inlet w/10 EXT.
Top 798.35 ℄ 794.35
℄ 10' Inlet ~ 42.0' Lt. ℄
Top 798.40 ℄ 794.40
24" R.C.P.
21" R.C.P.
LAT#20 27" R.C.P.
30" R.C.P.
Q=35 cfs
ALL LATERALS & INLETS THIS INTERSECTION ARE INCLUDED IN ITEMS 1 THRU 31
44+62.45
25.45'
LAT#21
21" R.C.P.
24" R.C.P.
Q=19.0 cfs
℄ 6' Inlet ~ 45+00 ℄
Top 797.80 ℄ 793.80
POINDEXTER (Asph. Pvmt)
ST.
42+00
MATCH LINE
B.B.
44
Survey Line
43
13'
6" Sani Swr
66" Conc. Pipe
Conc. Drive
Conc. Walk
Stop Sign
℄ 5' Inlet ~ 45+01
Top 797.40 ℄ 793.40
18" R.C.P.
Q=6.0 cfs
Q=8.0 cfs
58.95'
45
54" Conc. Pipe
℄ 10' Inlet w/10' Ext. ~ 42.0' Lt. ℄
Top 798.17 ℄ 794.17
Δ = 46°42'04"
R = 81.00'
T = 34.97'
L = 66.02'
P.T. = 45+34.40
13.0'
MATCH LINE 45+50
END PROPOSAL "A"
ITEMS 1 THRU 31
45+50
MATCH LINE
DOUGLAS (Asph. Pvmt)
54" Conc. Pipe
ST.
46
47
Survey Line
13.0'
41'
B.B.
Gravel Alley
Conc. Drive
Dirt Drive
1-S-F
47+90 ~ 54" ⌀ = 0+00 LAT#22
21" R.C.P.
48+00
MATCH LINE
N
66" Conc. Pipe
Q=240 C=240
V=10.0 S=0.0050
P.C. & STA. EQUATION (-18') 44+50 Bk = 44+68.38 Fwd Const. 9.0' Dia M.H.
H.G. 792.84
H.G. 794.09
H.G. 794.01
H.G. 796.43
66" on 0.68%
54" Conc. Pipe
Q=177 C=180
V=10.5 S=0.0073
54" on 0.80%
IDENTICAL
250 L.F. 66" Conc. Pipe
332 L.F. 54" Conc. Pipe
PLAN NOTES: BK #3
℄ 784.63
℄ 66" 786.33
℄ 30" 789.33
℄ 54" 787.33
℄ 54" 787.42
℄ 24" 788.67
℄ 54" 789.90
℄ 21" 791.27
℄ 789.98
800
795
790
785
780
42
43
44
45
46
47
48

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 10

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE
℄ 10' Inlet ~ 40.0' Lt ℄
Top 800.70 ℄ 796.70
Q=9.0 cfs
ST.
℄ 10' Inlet w/10' Ext. ~ 40.0' Lt. ℄
Top 801.00 ℄ 797.00
Q=18.0 cfs
24" R.C.P.
48+00
54" Conc. Pipe
51" Conc. Pipe
DOUGLAS
(Asph Pvmt)
48+20.5
13.0'
49
50
51
Survey Line
Gravel Alley
PP
4" Gas
MATCH LINE
BALES
(Asph Pvmt)
37'
B.B.
Conc. Drive
Gravel Alley
Conc. Drive
48+28 ~ 54"Φ =
0+00 LAT #23
N
ST.
6" Sani Swr
℄ 10' Inlet w/10' Ext. ~ 40.0' Lt ℄
Top 803.84 ℄ 799.84
Q=21.0 cfs
24" R.C.P.
PP
6" Stub from S. dead
51" Conc. Pipe
48" Conc. Pipe
ST.
8" Sani Swr
51+73.0
52
53
Survey Line
13.0'
41'
B.B.
54+00
MATCH LINE
Gravel Alley
TURNER
(Asph Pvmt)
6" Sani Swr
FH
Water
4" Gas
38'
B.B.
Conc. Drive
Gravel Alley
51+80 ~ 51"Φ =
0+00 LAT #24
PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE
54" Conc. Pipe
Q=177 C=130
V=11.3 S=0.0083
48+35
48+28~54"
0+00 LAT #23
51" Conc. Pipe
Q=150 C=150
V=10.5 S=0.0073
51+52 ~ Water
51+53.5 ~ 4" Gas
51+80 ~ 51"Φ =
0+00 LAT #24
51+86
48" Conc. Pipe
Q=129 C=130
V=10.3 S=0.0080
805
800
795
790
785
H.G. 796.43
H.G. 796.99
H.G. 796.72
54" on 0.80%
51" on 0.80%
Top 800.0
H.G. 799.61
H.G. 799.55
48" on 0.56%
H.G. 801.32
35 L.F. of 54" Conc. Pipe
351 L.F. of 51" Conc. Pipe
214 L.F. of 48" Conc. Pipe
PLAN NOTES: BK #3
℄ 789.98
℄ 54" 790.20
℄ 24" 791.45
℄ 54" 790.26
℄ 51" 790.51
℄ 51" 793.27
℄ 24" 794.40
℄ 51" 793.32
℄ 48" 793.57
℄ 794.77
48
49
50
51
52
53
54

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Horiz.
1" = 5' Vert.

JOB NO. 7218
SHEET NO. 11

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

54+00
MATCH LINE
DOUGLAS ST.
(Asph. Pavmt)
48" Conc. Pipe
45" R.C.P.
36" R.C.P.
8" Sani. Swr.
6" Sani. Swr.
Survey Line
MARENGO ST.
EUCLID
Gravel Alley
Conc. Drive
55+22.95
58+70
58+12
¢10' Inlet ~ 40.0 Lt ¢ Top 806.00 ¢ 802.00
¢10' Inlet w/10' Ext. ~ 40.0 Lt ¢ Top 806.30 ¢ 802.30
¢10' Inlet w/10' Ext. ~ 40.0 Lt ¢ Top 809.50 ¢ 805.50
54+93 ~ 48" ø 0+00 LAT #25
55+22 ~ 48" ø 0+00 LAT #26
58+75 ~ 45" ø 0+00 LAT #27
Q = 18 cfs
Q = 81 cfs
Q = 53 cfs
31'
8.8'
13'
41'
60+00
48" Conc. Pipe Q = 129 C = 135 V = 10.3 S = 0.0080
45" R.C.P. Q = 94 C = 95 V = 8.7 S = 0.0062
36" R.C.P. Q = 71 C = 75 V = 10.1 S = 0.0124
H.G. 801.32
H.G. 802.34
H.G. 802.81
Top 802.2
H.G. 805.00
H.G. 804.70
Top 806.0
H.G. 806.2
48" on 0.56%
45 on 2.00%
45" on 0.96%
36" on 0.96%
50' V.C.
128 L.F. 48" Conc. Pipe
Install 354 L.F. of 45" R.C.P.
Install 118 L.F. of 36" R.C.P.
Plan Notes: BK #3
54+93 = 0+00 LAT #25
55+22 = 0+00 LAT #26
55+28
55+39 ~ Water
58+75 = 0+00 LAT #27
58+82
58+86 ~ Water
¢ 794.77
¢ 48" 795.30
¢ 21" 796.42
¢ 48" 795.45
¢ 24" 796.45
¢ 48" 795.49
¢ 45" 795.74
¢ 797.68 ~ 56+25
56+50 - P.V.I. 798.18
¢ 798.11
¢ 798.42 ~ 56+75
¢ 45" 800.34
¢ 24" 801.21
¢ 45" 800.41
¢ 36" 801.11
¢ 802.29
810
805
800
795
790
54
55
56
57
58
59
60

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

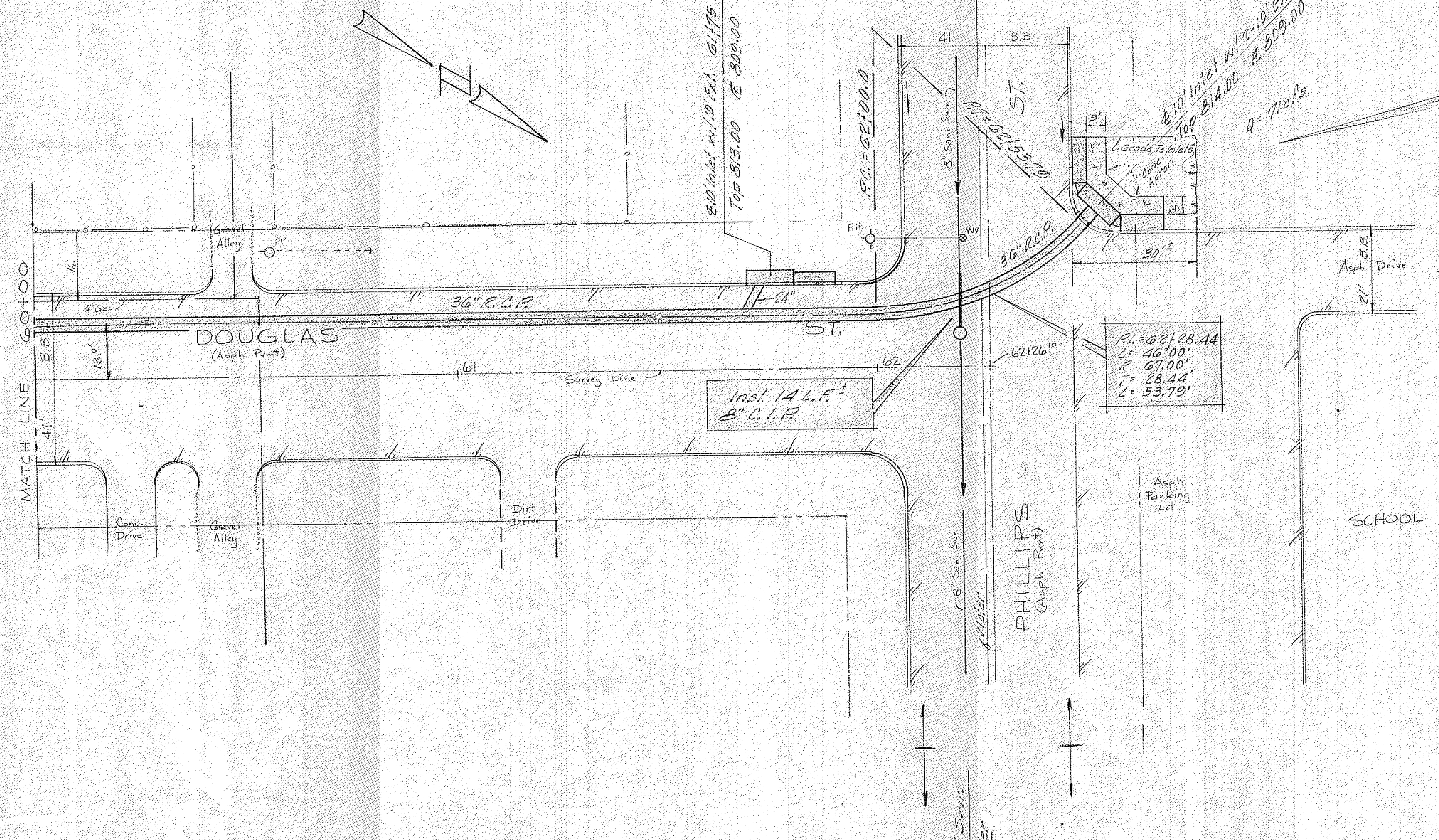
Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 12

PLAN	BY	DATE
NOTE BOOK	SURVEYED	
	PLOTTED	
	ALIGNMENT CHECKED	
No.	RT. OF WAY CHECKED	

PROFILE	BY	DATE
NOTE BOOK	SURVEYED	
	PLOTTED	
	GRADES CHECKED	
	B. M.'s NOTED	
No.	STRUCTURE NOTATIONS CHECKED	

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.


E.10' Inlet w/10' Ext. 61+75
Top 813.00 Ɇ 809.00
P.C. = 62+00.0
41'
8.8
ST.
8" San. Swr.
P.T. = 62+53.79
3-10' Inlet w/ 2-10' Ext.
Top 814.00 Ɇ 809.00
Q = 71c.f.s.
5'
Grade To Inlets
Conc. Apron
30'±
F.H.
WV
36" R.C.P.
24"
Gravel Alley
MATCH LINE 60+00
8.8'
13.0'
DOUGLAS ST.
(Asph Pvmt)
61
62
Survey Line
62+26±
Inst. 14 L.F.± 8" C.I.P.
P.I. = 62+28.44
∆ 46°00'
R 67.00'
T 28.44'
L 53.79'
Asph Drive
8.8
21'
41'
Conc. Drive
Gravel Alley
Dirt Drive
Asph Parking Lot
SCHOOL
8" San. Swr.
Water
PHILLIPS (Asph Pvmt)

62+60± ~ Constr. 3-10' Inlets. Center Inlet Shall Be 5' Deep. 2 Side Inlets To Be 4' Deep. Side Inlets May Be Connected To Center Inlet With 24" Ø Or May Be Poured With 2'x2' Opening Between Inlets. Each Inlet Is To Be Built With A 12" Throat, Open Only To The Back. Pour Conc. Apron In Front Of Inlets As Shown. Inst. #5 Bars At 9" Centers Vertical In Each Inlet Opng.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R. OF WAY CHECKED
BY
DATE

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

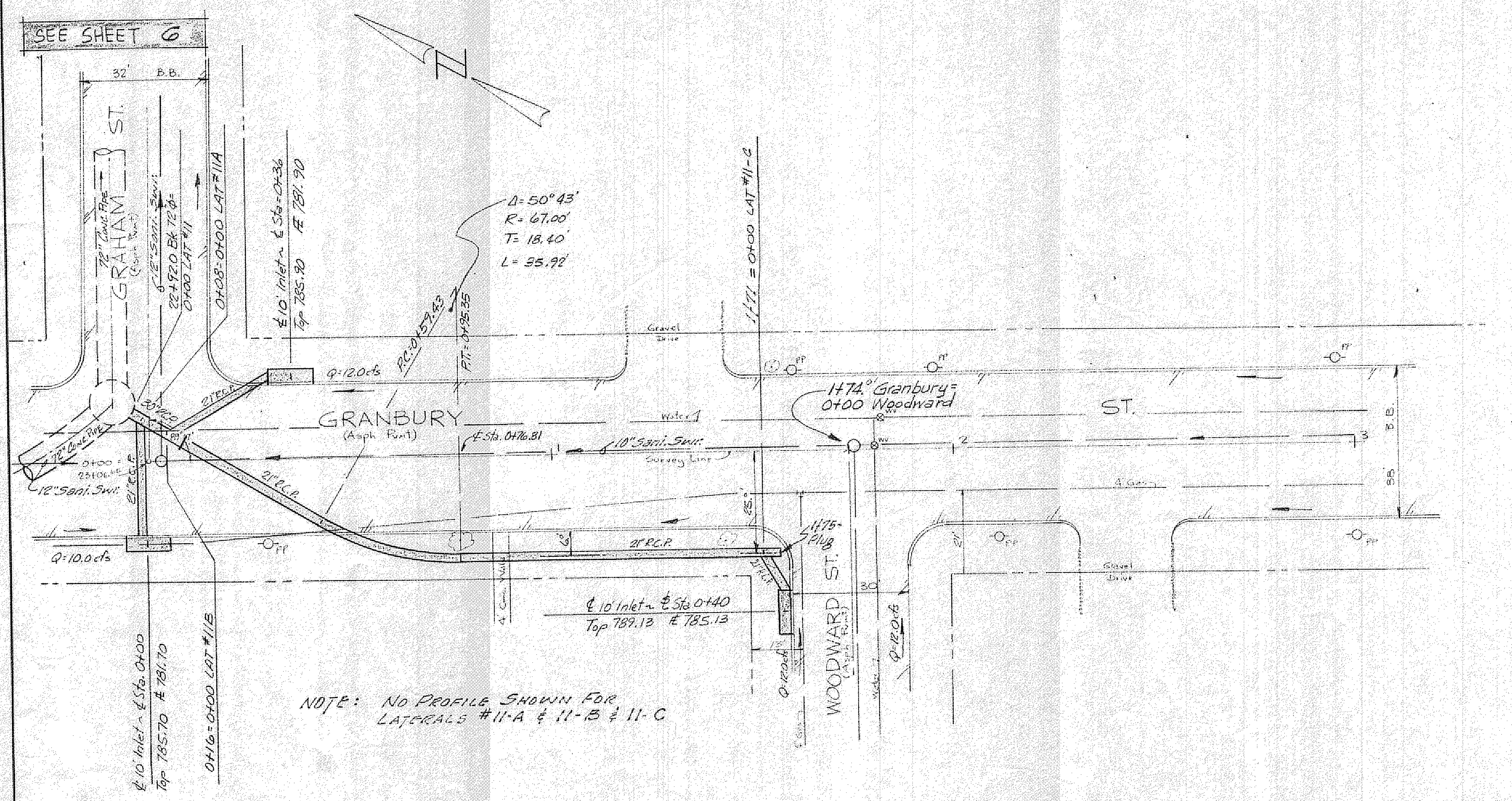
DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1"=20' Horiz. 1"=5' Vert.
JOB NO. 7218
SHEET NO. 13

815
810
805
800
795
60+53.25-4" Gas
36" R.C.P.
Q = 71 C = 75
V = 10.7 S = 0.0124
62+29 - 8" San. Swr.
62+45± - Water
H.G. 806.16
Top 807.75
36" ON 0.96%
Ɇ 809.67
El. Ink.
36" ON 15.00%
H.G. 809.88
INST. 261 L.F. OF 36" R.C.P.
Ɇ 802.29
Ɇ 804.50
Ɇ 809.00
PLAN NOTES: BK #3
60
61
62
63

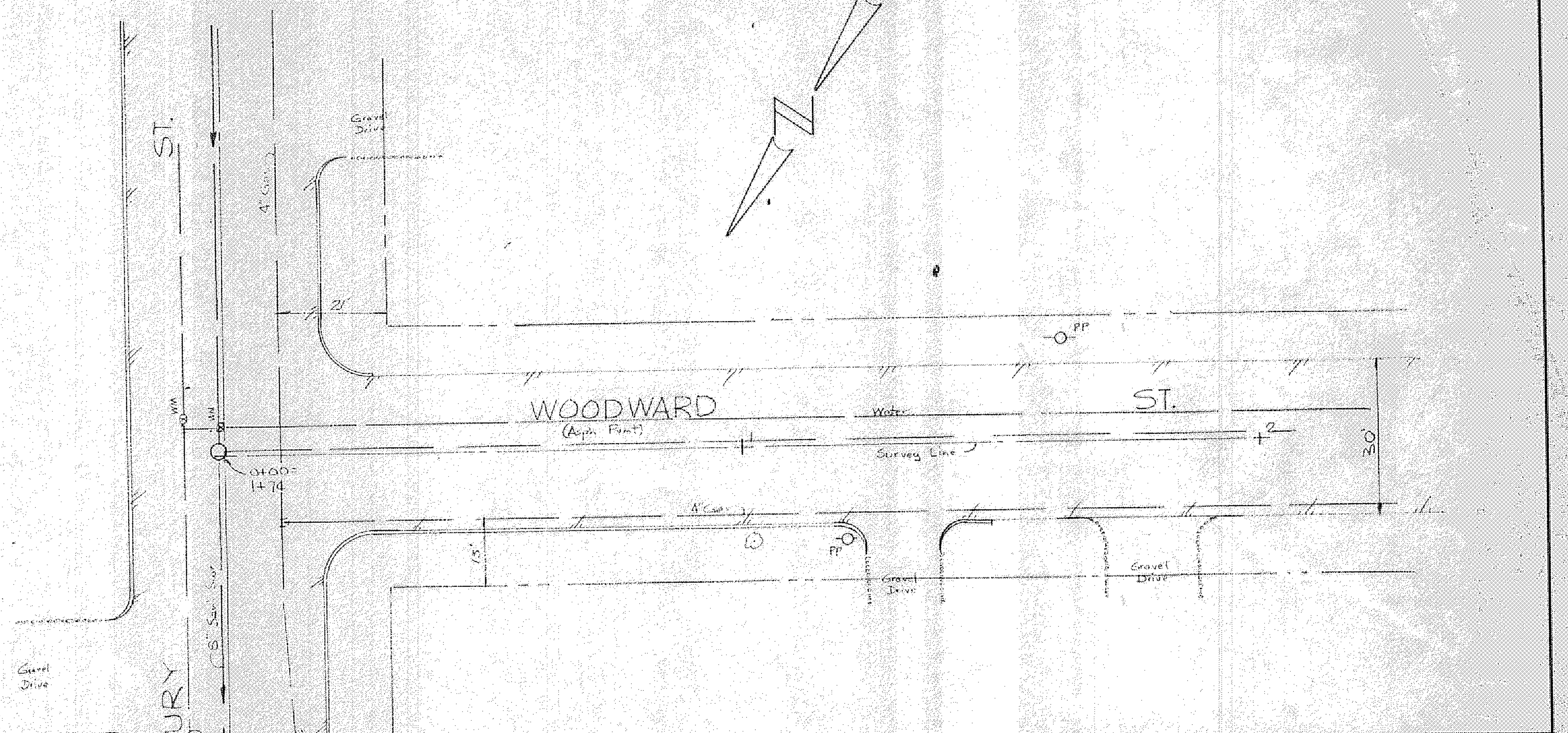
PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


SEE SHEET 6
32' B.B.
GRAHAM ST.
(Asph. Pvmt.)
72" Conc. Pipe
12" Sani. Swr.
22+92.0 Bk. 72"ø = 0+00 LAT #11
0+08 = 0+00 LAT #11A
℄ 10' Inlet ~ ℄ Sta. 0+36
Top 785.90 ⨍ 781.90
Δ = 50° 43'
R = 67.00'
T = 18.40'
L = 35.92'
P.C. = 0+57.43
P.T. = 0+95.35
1+71 = 0+00 LAT #11-C
Q = 12.0 cfs
21" R.C.P.
30" R.C.P.
GRANBURY
(Asph. Pvmt.)
72" Conc. Pipe
0+00 = 23+06.65
℄ Sta. 0+76.81
10" Sani. Swr.
Survey Line
Water
Gravel Drive
PP
Q = 10.0 cfs
21" R.C.P.
℄ 10' Inlet ~ ℄ Sta. 0+00
Top 785.70 ⨍ 781.70
0+16 = 0+00 LAT #11B
1+74 Granbury = 0+00 Woodward
1+75 Plug
℄ 10' Inlet ~ ℄ Sta. 0+40
Top 789.13 ⨍ 785.13
Q = 12.0 cfs
WOODWARD ST.
(Asph. Pvmt.)
4' Conc. Walk
ST.

NOTE: NO PROFILE SHOWN FOR
LATERALS #11-A & 11-B & 11-C


ST.
WOODWARD ST.
(Asph. Pvmt.)
Water
Survey Line
0+00 = 1+74
PP
Gravel Drive
GRANBURY
(Asph. Pvmt.)
33' B.B.
30'
Sani. Swr.

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 14

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

790
785
780
775
770
0+00 = 22+92.0 Bk. 72"ø
0+14 12" Sani. Swr. & 6" Water
0+28 10" Sani. Swr.
1+71 = 0+00 LAT #11-C
1+75 End & Plug
Ex. 10" Sani. Swr. 26' Lt.
S. .0160
V. 8.4
H.G. 785.29
H.G. 782.81
H.G. 782.29
H.G. 781.97
H.G. 782.54
El. Unkn.
21" ON 3.60%
30" ON 3.00%
⨍ 72" 775.51
⨍ 30" 776.03
⨍ 30" 776.38
⨍ 21" 776.70
⨍ 30" 776.61
⨍ 21" 776.90
⨍ 30" 776.75
⨍ 21" 777.50
⨍ 21" 782.91
⨍ 21" 783.08
0
1
2
3
0
1
2
790
785
780

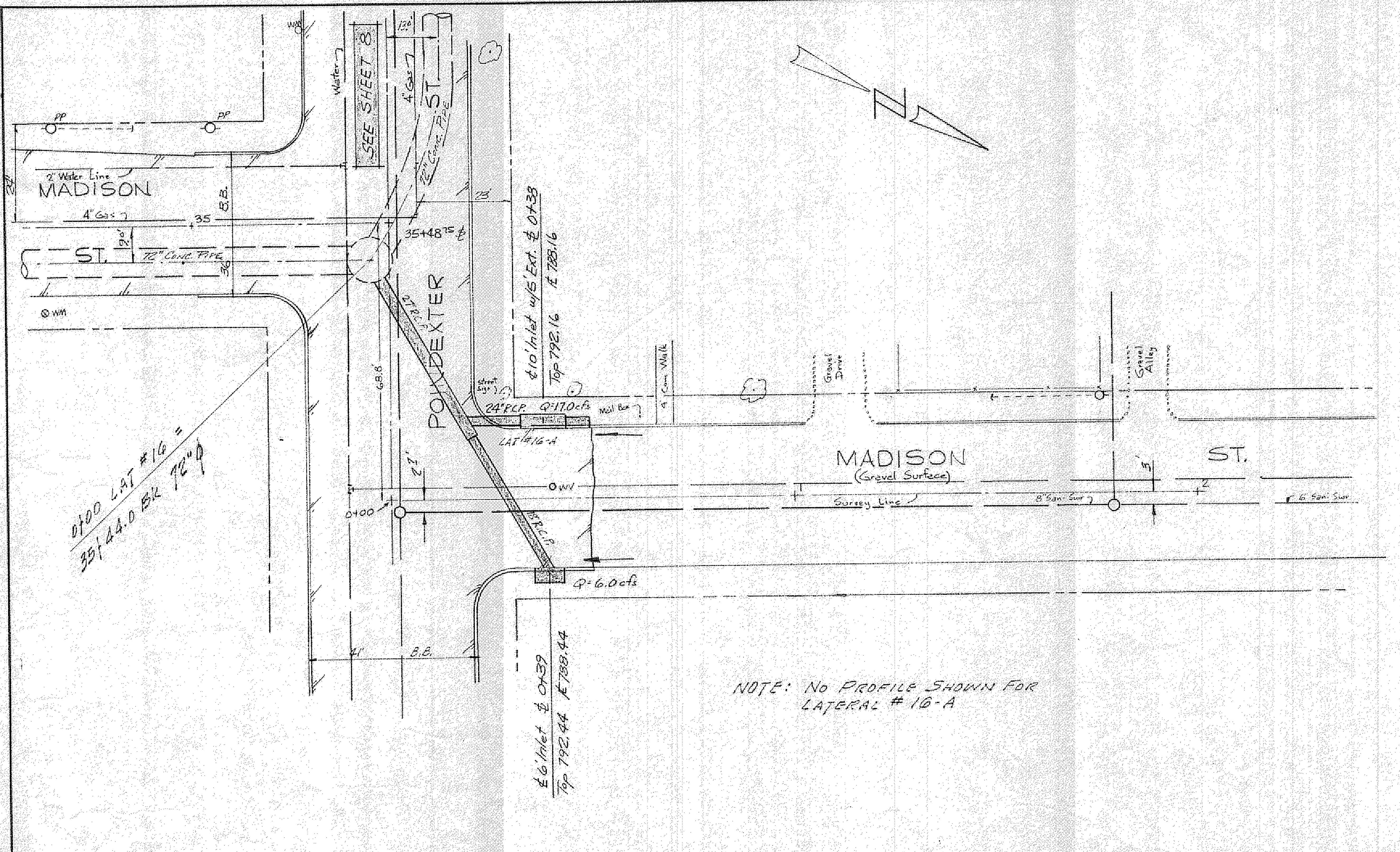
LAT #11
20 L.F. OF 30" R.C.P. CL.
155 L.F. OF 21" R.C.P. CL.

PLAN NOTES: BK #2

PLAN

NOTE BOOK No.

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		


N
SEE SHEET 8
Water
4" Gas
13.0'
72" Conc. Pipe
ST.
PP
PP
2" Water Line
MADISON
4" Gas
35
B.B.
34'
9.0'
36'
ST.
72" Conc. Pipe
WM
35+48.75 ℄
23'
℄ 10' Inlet w/5' Ext. ℄ 0+38
Top 792.16
Ⓕ 788.16
POINDEXTER
27" R.C.P.
68.8'
Street Sign
24" R.C.P.
Q=17.0 cfs
Mail Box
4' Conc. Walk
Gravel Drive
Gravel Alley
LAT #16-A
MADISON
(Gravel Surface)
ST.
WV
0+00
27'
Survey Line
8" San. Swr
6" Sani. Swr
5'
2
18" R.C.P.
Q=6.0 cfs
0+00 LAT #16 =
35+44.0 BK 72" ∅
41'
B.B.
℄ 6' Inlet ℄ 0+39
Top 792.44
Ⓕ 788.44

NOTE: No Profile Shown For Lateral #16-A

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS

GRAHAM ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: JULY 1973
SCALE: 1"=20' Horiz.
1"=5' Vert.
JOB NO. 7218
SHEET NO. 15

PROFILE

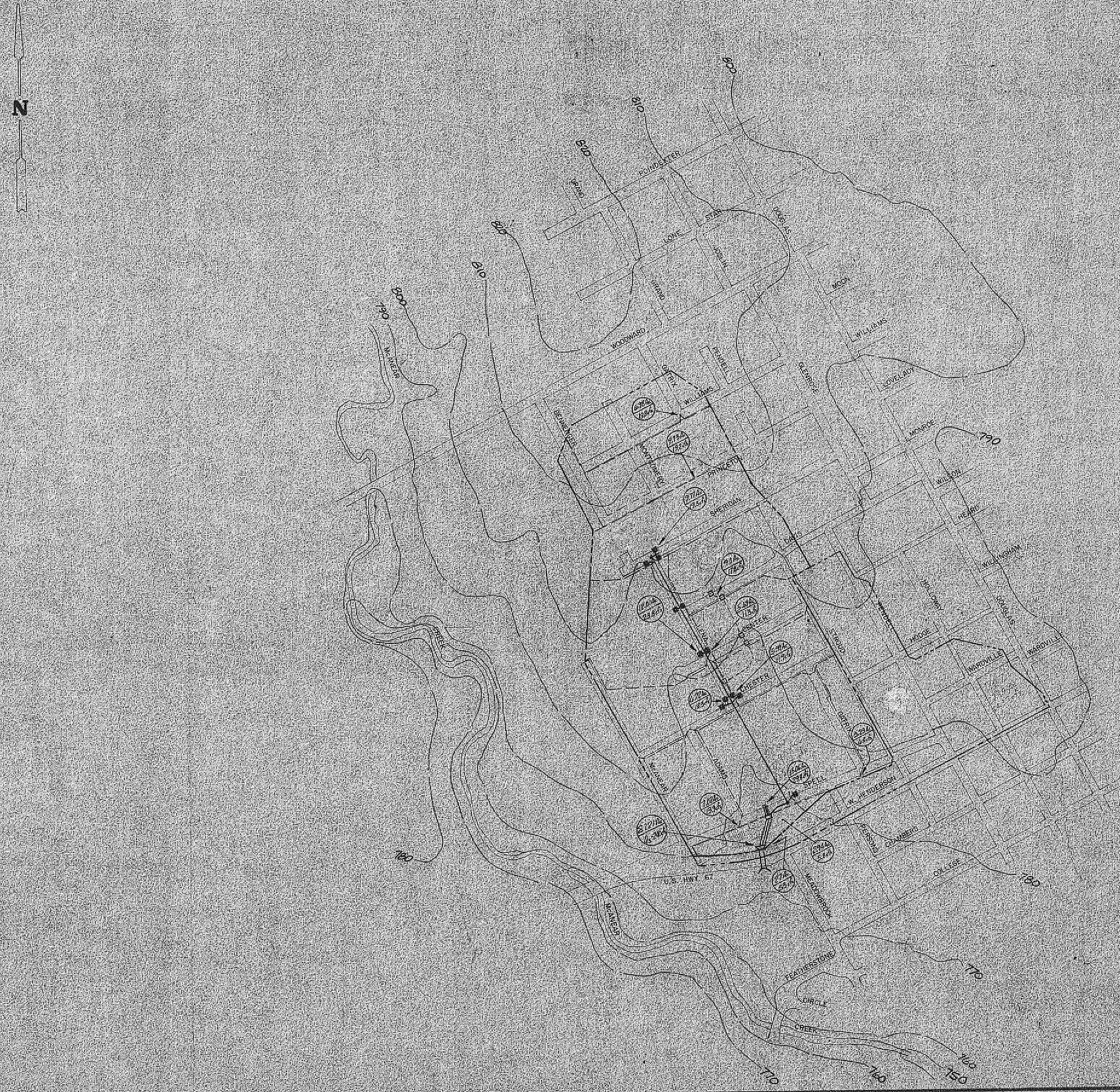
NOTE BOOK No.

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B. M.'s NOTED		
STRUCTURE NOTATIONS CHECKED		

790
785
780
795
790
785
780
35+44 BK. 72"
0+00 LAT #16
0+12 6" SANI SWR.
0+46 0+00 LAT #A-16
0+66 6" WATER
0+75 8" SANI SWR.
0+80 6' INLET
H.G. 790.64
H.G. 789.24
H.G. 791.17
S=.0060
V=6.1
Q=21.0
C=24.0
Ⓕ 788.5
Ⓕ 788.5
Ⓕ 788.5
S=.0060
V=4.6
H.G. 790.92
Q=6.0
C=8.0
H.G. 791.43
27" on 1.80%
18" on 1.80%
18" on 26.79%
Ⓕ 72" 780.09
Ⓕ 27" 783.84
Ⓕ 27" 784.67
Ⓕ 24" 784.80
Ⓕ 27" 784.76
Ⓕ 18" 785.51
P.I. 0+80 Use 15°
Bend - Ⓕ 786.03
Ⓕ 788.44
0
1
2

46 L.F. 27" R.C.P
43 L.F. 18" R.C.P

PLAN NOTES: BK #2


N
800
810
810
810
820
800
790
790
780
780
770
770
760
760
750
POINDEXTER
GRAND
STAR
LONE
JOSLIN
DOUGLAS
GRAND
MOON
WILLIAMS
WOODWARD
GATRIX
PENDELL
GLENROSE
LOVELADY
WILLIAMS
BENNENGER
MONTGOMERY
PRINCETON
MONROE
WILSON
SHERIDAN
HEARD
DAVIS
WILLINGHAM
CHESTER
WARDVILLE
GATRIX
McANEAR
ADAMS
SPELL
W. HENDERSON
PERSONS
CHAMBERS
COLLEGE
U.S. HWY 67
MEADOWBROOK
McANEAR
FEATHERSTONE
CIRCLE
CREEK

Drainage Map

Design Data:
Inlet Time: 15 Min.
$I_5 = 4.40$
$C = 0.45$
$CI_5 = 1.98$
$Q_5 = 1.98 \times \text{Acres}$

Contract "B"

CITY OF CLEBURNE, TEXAS

Storm Sewer Improvements

LENA ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED W.J.W.
APPROVED W.J.W.
DATE AUG 1973
SCALE 1" = 400'

JOB NO. 7218
SHEET NO. 2

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

N
HIGHWAY 67 (Asph. Pvmt.)
HENDERSON ST.
0+00
CREEK
Conc. Box Culvert 5'High & 6' Wide
Survey Line
18" R.C.P.
1+07.23
12°47'
13.88'
13'
2
1
3
4
5
Survey Line
54"
36" R.C.P.
36" R.C.P.
Remove & Replace Conc. Apron To Match Prop. F.L.
Remove & Salvage Exist. 36" R.C.P.
Gravel Drive
PP
1-S-Stucco
1-S-F
1-S-Stucco
P.C. 3+25.09
℄
Δ= 35°00'
R= 100.00'
T= 31.53'
L= 60.09'
Fill & Grade to Drain
P.T. 3+85
3+85 ℄ 6.5' Dia. Special M.H. See Detail Sht. #4
Adjust Water Line To Clear Stm. Swr.
Type "Y" Inlet
1-Jt 8" C.I.P.
Rem. & Salvage 36" ⌀
8" San. Swr.
Type "Y" Inlet
Type "Y" Inlet
18"
125'
Water
Grade to Drain
Ex.Conc. Box Culvert 38"High & 24" Wide TO BE REMOVED
10
W.M.
SPELL ST. (Asph. Pvmt.)
6" San. Swr.
Water
Survey Line
Water
PP
W.M.
MATCH LINE
5+00
54" R.C.P.
S= 0.010
n= 0.013
V= 12.5
Q= 180.5
C= 200
S= 0.0075
n= 0.013
V= 10.7
Q= 166.6
C= 172
3+75 ± Ex. Water Line
3+85 ℄ 6.5' Dia. Spcl. M.H.
Highway 67 or Henderson Street
0+93 : 1+13.23 Begin 54" Pipe
H.G. 773.01
6.0' x 5.0' Conc. Box Culv.
54" Pipe on 0.76%
402 L.F. of 54" Class III Reinf. Conc. Culv. Pipe
Top ... 775.54
H.G. 775.73
H.G. 776.38
EL. INK
F.L. 771.55
F.L. 771.8
Ex. 8" Swr. F.L. 770.90±
F.L. 770.89
Fill Compacted & Grade to Drain
H.G. 777.24
54" ON 0.76%
F.L. 766.74
F.L. 766.96
F.L. 36" Pipe 768.95
F.L. 766.97
F.L. 54" 768.73
F.L. 18" 770.23
F.L. 54" 769.04
F.L. 18" 770.54
F.L. 54" 769.18
F.L. 18" 770.68
F.L. 54" 769.91
780
775
770
765
760
0
1
2
3
4
5

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: APRIL 1978
SCALE: 1" = 20' Horiz.
1" = 5' Vert.
JOB NO. 7218
SHEET NO. 3

PLAN NOTES: Pg. 19-22 Book #2
PROFILE NOTES: Pg. 32-36 Book #2

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE LOCATIONS CHECKED
BY
DATE

3

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
46 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

N
7.83'
No. 4 bars on 9" ctrs. eachway
3"
3"
6.0'
6"
Concrete Top for 6.0' Dia. Brick Manhole
Std. Strm. Swr. Manhole Cstg.
No. 4 bars on 9" ctrs. eachway
5+53.49 P.C.
5+77.98 P.T.
Δ = 14° 02' 00"
T = 12.31
R = 100.0
L = 24.49
MATCH LINE 5+00
16'
8'
ST.
Survey Line
6" Sani. Swr.
54"
4" Gas
1-S- Stucco
PP
SPELL (Asph. Pvmt.)
Water
85°22'
5+53.15
Fnd Old 1" Bolt & Stake & Lathe
5+29.00 P.C.
5+53.49 P.T.
1-S-F
Garage
15' Easement
Easement Line
54"
Survey Line
7
8
9
10
DRAINAGE
DITCH
11+00
MATCH LINE
Raise 4" Gas Main
5+53.49 ℄ 6.5 Dia. Special MH - See Det This Sheet
Type "Y" Inlet
FL. 775.0
S = .0075
n = 0.013
V = 10.7
Q = 166.6
C = 172
5+53.49 ℄ 6.5 Dia. Special M.H.
5+77.98 Back
EQUATION
5+97.0 Forward
S = 0.0050
n = 0.013
V = 8.8
Q = 130.40
C = 140.0
785
780
775
770
H.G. 777.24
H.G. 777.64
H.G. 779.22
H.G. 778.34
H.G. 778.34
H.G. 780.86
781.82 ℄ Ditch
FL 15" 773.60
Top 4" Gas 774.75
54" on 0.76%
54" on 2.70%
54" on 0.50%
FL 54" 769.91
FL 54" 770.32
FL 54" W 770.34
FL 54" 771.00
FL 54" 771.00
Grade Break
FL 773.78
FL 54" 774.78
11+00 ℄ Ditch
581 LF of 54" Reinf. Conc. Culv. Pipe
PLAN NOTES: BK #2
5
6
7
8
9
10
11

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: APRIL 1973
JOB NO. 7218
SHEET NO. 4
SCALE: 1" = 20' Horiz. 1" = 5' Vert.

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

PLAN		BY	DATE
NOTE BOOK	SURVEYED		
No.	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

N
MATCH LINE 11+00
MATCH LINE 17+00
Proposed Easement Line
15' Easement
54"
DRAINAGE DITCH
Survey Line
Remove & Replace Fence
11+00 ± Left
Fnd Stake & Lathe No I.P.
Install 10' Inlet
6" Sani Swr
Raise Water Main
36" B.B.
CHESTER ST. (Asph Pvmt)
Install 10' Inlet
13+05 ± Rt
42"
Plug
Inlet to remain in place
Abandon Storm Sewer Pipes
18" R.C.P.
Install 8' Inlet
Rem. & Rep. Fence
LENA ST. (Asph Pvmt)
B.B.
34'
Connect to 24" Pipe
24" R.C.P.
Existing Inlet to remain
6" Gas
8" Sani Swr
Survey Line
15
16
CENTER CT.
42"
Inst. 10' Inlet
36"
Water
Install 6' Inlet Bottom Elev. 786.57
36' B.B.
CENTER ST. (Asph Pvmt)
6" Sani Swr
Conc. Drive

CITY OF CLEBURNE, TEXAS

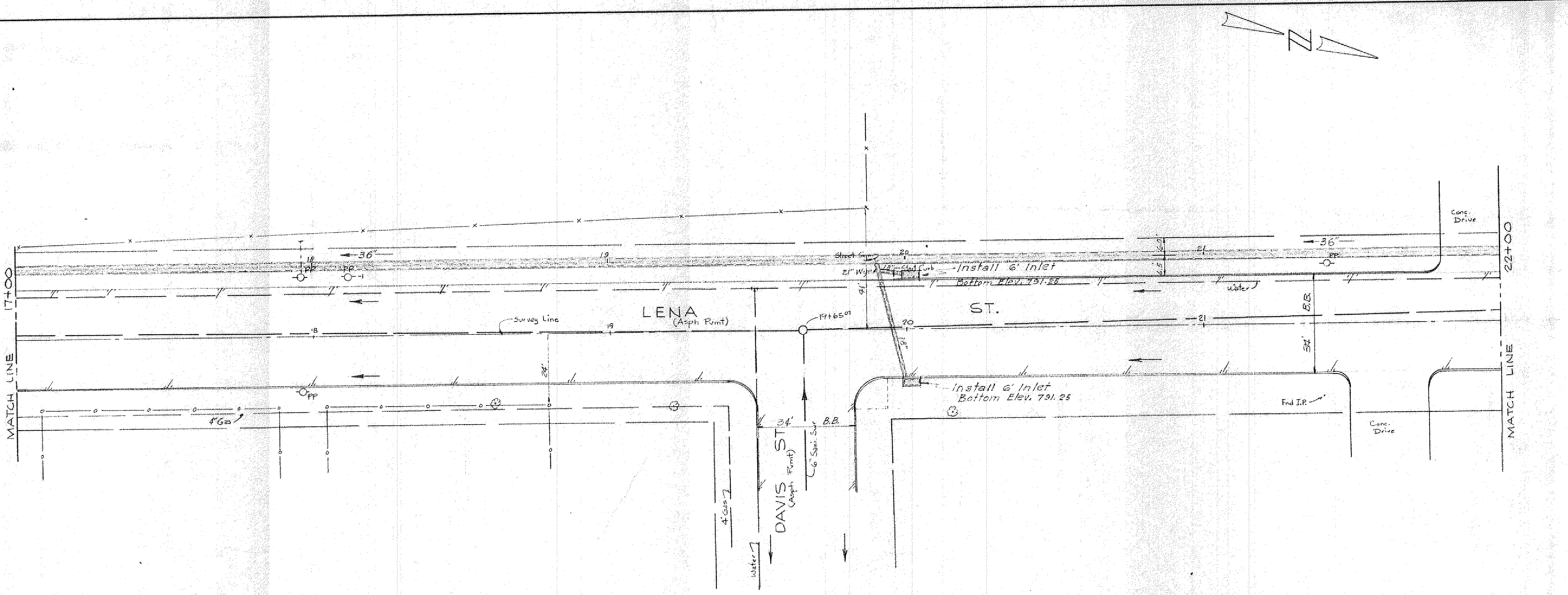
STORM SEWER IMPROVEMENTS
LENA ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED:	W.J.W.
APPROVED:	W.J.W.
DATE:	APRIL 1973
SCALE:	1" = 20' Horiz. 1" = 5' Vert.
JOB NO.	7218
SHEET NO.	5

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
No.	PLOTTED		
	GRADES CHECKED		
	B. M.'s NOTED		
	STRUCTURE NOTATIONS CHECKED		

S = .0050
n = 0.013
V = 6.8
Q = 130.40
C = 140
S = .0150
n = 0.013
V = 12.9
Q = 105.20
C = 123
S = .0150
n = 0.013
V = 11.6
Q = 70.10
C = 81
11+00 ± Left
12+56 Inlet Lead
FL Sani Swr
12+95 Inlet Lead Each Side
13+05 ± Right
12+92-21" Inlet Lead
13+15-18" Inlet Lead
13+99-24" Inlet Lead
16+39-18" Inlet Lead
790
785
780
775
HG 780.88
HG 781.89
HG 781.20
18" R.C.P.
54" on 0.50%
42" on 1.50%
36" on 1.50%
Top 24" RCP 785.41
8" Sani Swr
HG 786.86
HG 787.23
Std. Conc. Collar Not a pay item
FL 54" 775.78
FL 54" 776.56
FL 21" 777.94
FL 54" 776.76
21" Inlet Leads 778.14
FL 54" 776.51
FL 42" 777.81
FL 54" 776.77
FL 21" 778.15
FL 42" 777.95
FL 18" 778.98
FL 42" 779.22
FL 24" 779.37
FL 42" 783.22
FL 18" 783.82
FL 42" 782.99
FL 36" 783.49
FL 42" 784.84
205 LF of 54" Reinf. Conc. Culv. Pipe
345 LF of 42" Reinf. Conc. Culv. Pipe
50 LF of 36" Reinf. Conc. Culv. Pipe
PLAN NOTES: Pg 24-26 Book #2
PROFILES NOTES: Pg 37-41 Book #2
11
12
13
14
15
16
17


N
MATCH LINE
17+00
MATCH LINE
22+00
36"
PP
PP
18
19
20
21
Street Sign
21" Wye
18" Curb
Install 6' Inlet
Bottom Elev. 791.25
Water
LENA
(Asph Pvmt)
ST.
Survey Line
17+65.07
BB.
34'
Install 6' Inlet
Bottom Elev. 791.25
Fnd I.P.
Conc. Drive
Conc. Drive
4" Gas
DAVIS ST
(Asph Pvmt)
6" Sani Swr
B.B.
4" Gas
Water

CITY OF CLEB

STORM SEWER
LENA ST

Riewe & Wischmeyer,
CONSULTING ENGINEERS
DALLAS, TEXAS

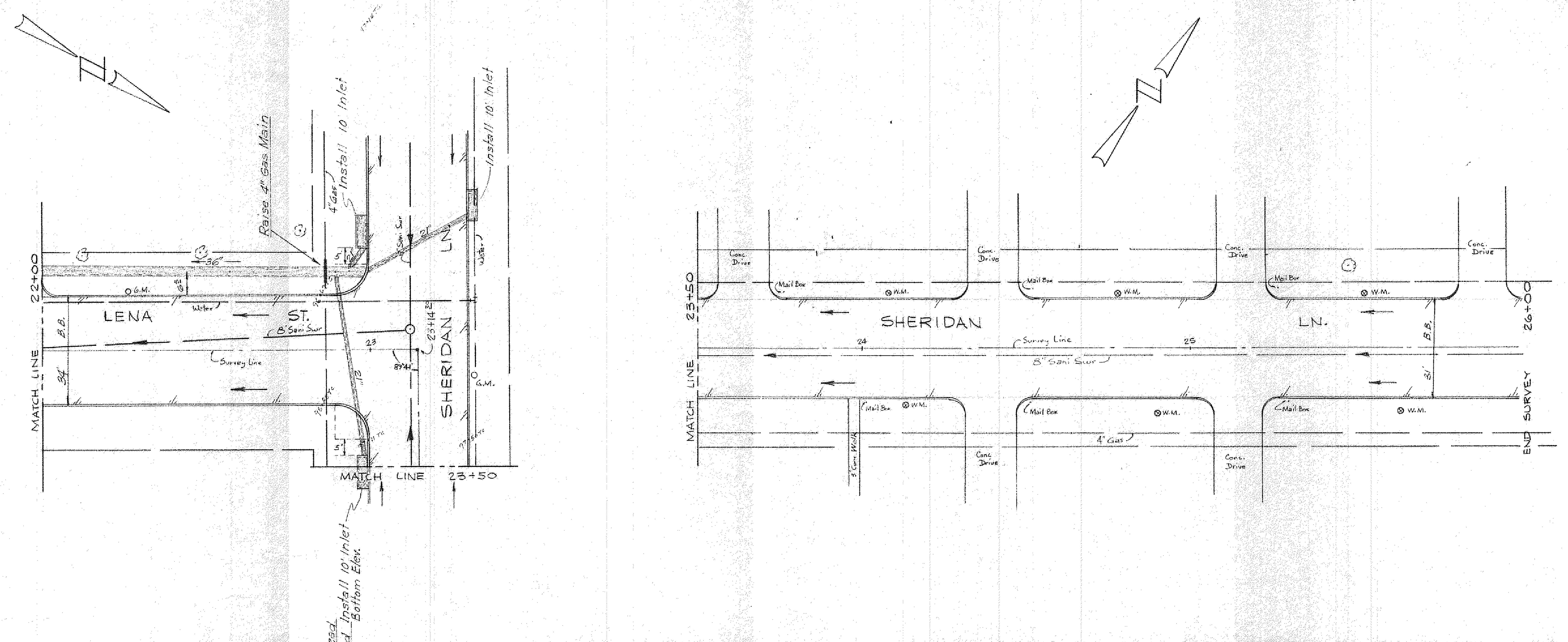
JOB NO. 7218 | SHEET NO.

S= .0150
n=0.013
V=11.6
Q=70.10
C=81
19+90-18" Inlet Lead
S=0.0080
n=0.013
V=8.5
Q=52.3
C=60
HG 787.03
36"
8" Sani Swr
on
1.50%
℄ 785.10
℄ 6" 788.60
℄ 8" 788.03
HG 792.15
HG 793.10
36"
8" Sani Swr
on
0.80%
HG 794.70
℄ 790.54
FL 36" 784.24
FL 36" 788.59
FL 18" 789.34
FL 36" 788.72
FL 36" 790.54
500 L.F. of 36" Reinf Conc. Culv. Pipe
17
18
19
20
21
22

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN

NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


N
Raise 4" Gas Main
36"
4" Gas
Install 10' Inlet
Install 10' Inlet
Water
LENA
ST.
G.M.
Water
8" Sani Swr
Survey Line
B.B.
34'
22+00
MATCH LINE
23
23+14
SHERIDAN
LN.
G.M.
MATCH LINE 23+50
Install 10' Inlet
Bottom Elev.
N
Conc. Drive
Mail Box
W.M.
SHERIDAN
LN.
24
Survey Line
25
8" Sani Swr
4" Gas
B.B.
31'
23+50
MATCH LINE
26+00
END SURVEY

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED:	W. J. W.
APPROVED:	W. J. W.
DATE:	APRIL 1973
SCALE:	1" = 20' Hor'z. 1" = 5' Vert.
JOB NO.	7218
SHEET NO.	7

PLAN NOTES: Pg 21-24 Book #2
PROFILE NOTES: Pg 44-46 Book #2

PROFILE

NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
DATE

800
795
790
785
HG 794.70
HG 795.50
36" on 0.80 %
8" Sani Swr
FL 790.54 San Swr
FL 791.13
22+93 - 21" Inlet Lead
22+94 - 21" Inlet Lead
FL 36" 791.06
FL 21" 791.69
FL 36" 791.09
FL 21" 791.72
FL 36" 790.34
FL 36" 791.11
100 LF of 36" Class III Reinf Conc. Culv. Pipe
22
23
23+50
23+50
24
25
26

Install 10' Inlet
Inlet to remain in place
LENA ST. (Asph Pvmt)
34' B.B.
Install 8' Inlet
4" Gas
Install 10' Inlet
CHESTER ST. (Asph Pvmt)
(Water)
B.B.
36'
0+00 = 12+78.90'
6" San. Sewer
6"
Install 10' Inlet
4" Gas
4" Gas
First Stake and Lathe No 1. P.
15' Easement
SEE SHEET 5
790
785
780
℄ CHESTER ST.
18" RCP 783.15
℄ 784.78
3
2
1
0+00
1
2
3
PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE
PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST. TRUNK

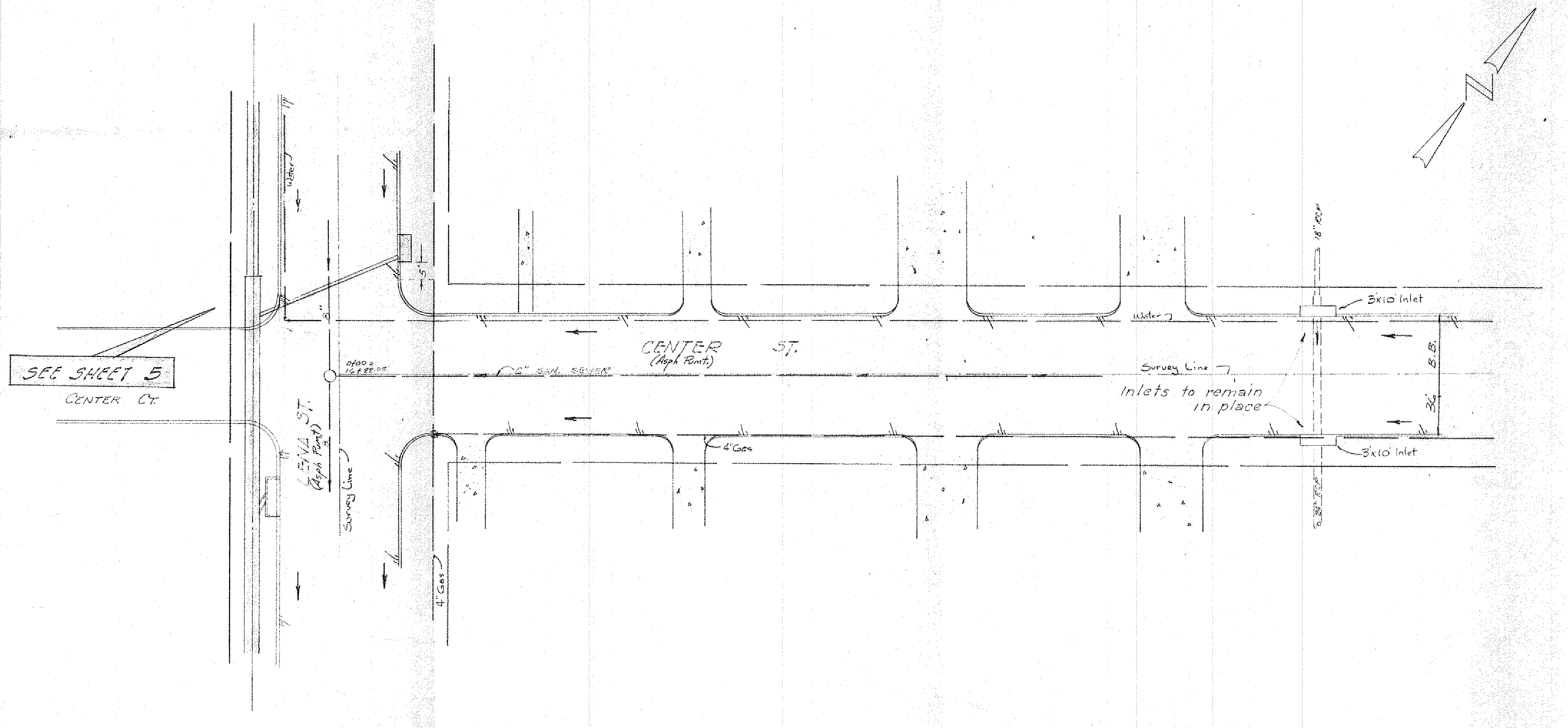
Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: APRIL 1973
SCALE: 1" = 5' Vert. 1" = 20' Horiz.
JOB NO. 7218
SHEET NO. 8

PLAN NOTES: pg 16 & 17 Book #2
PROFILE NOTES: pg 53 & 54 Book #2

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


SEE SHEET 5
CENTER CT.
LENA ST. (Asph Pvmt)
Survey Line
0+00 = 16+88.05
8"
5'
Water
6" SAN. SEWER
CENTER ST. (Asph Pvmt.)
4" Gas
4" Gas
Water
Survey Line
Inlets to remain in place
18" RCP
3'x10' Inlet
3'x10' Inlet
24" RCP
B.B.
36'

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

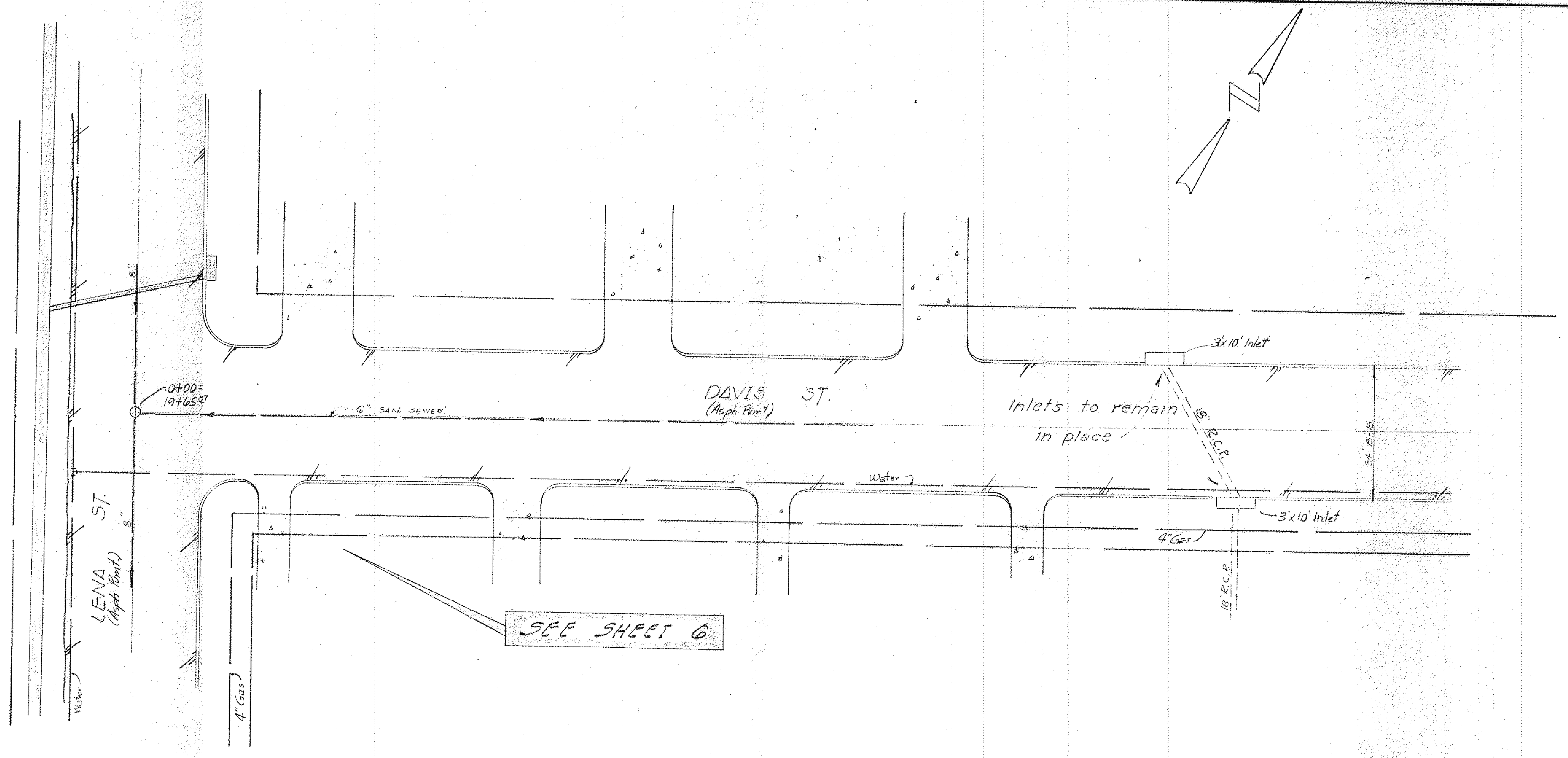
DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: APRIL 1973
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 9

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

PLAN NOTES: p 15 BOOK #2
PROFILE NOTES: p. 51 & 52 BOOK #2

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


0+00=
19+65.97
6" SAN. SEWER
DAVIS ST.
(Asph Pvmt)
Inlets to remain
in place
3'x10' Inlet
3'x10' Inlet
18" R.C.P.
18" R.C.P.
Water
4" Gas
4" Gas
LENA ST.
(Asph Pvmt)
8"
8"
34' B-B
SEE SHEET 6

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST TRUNK

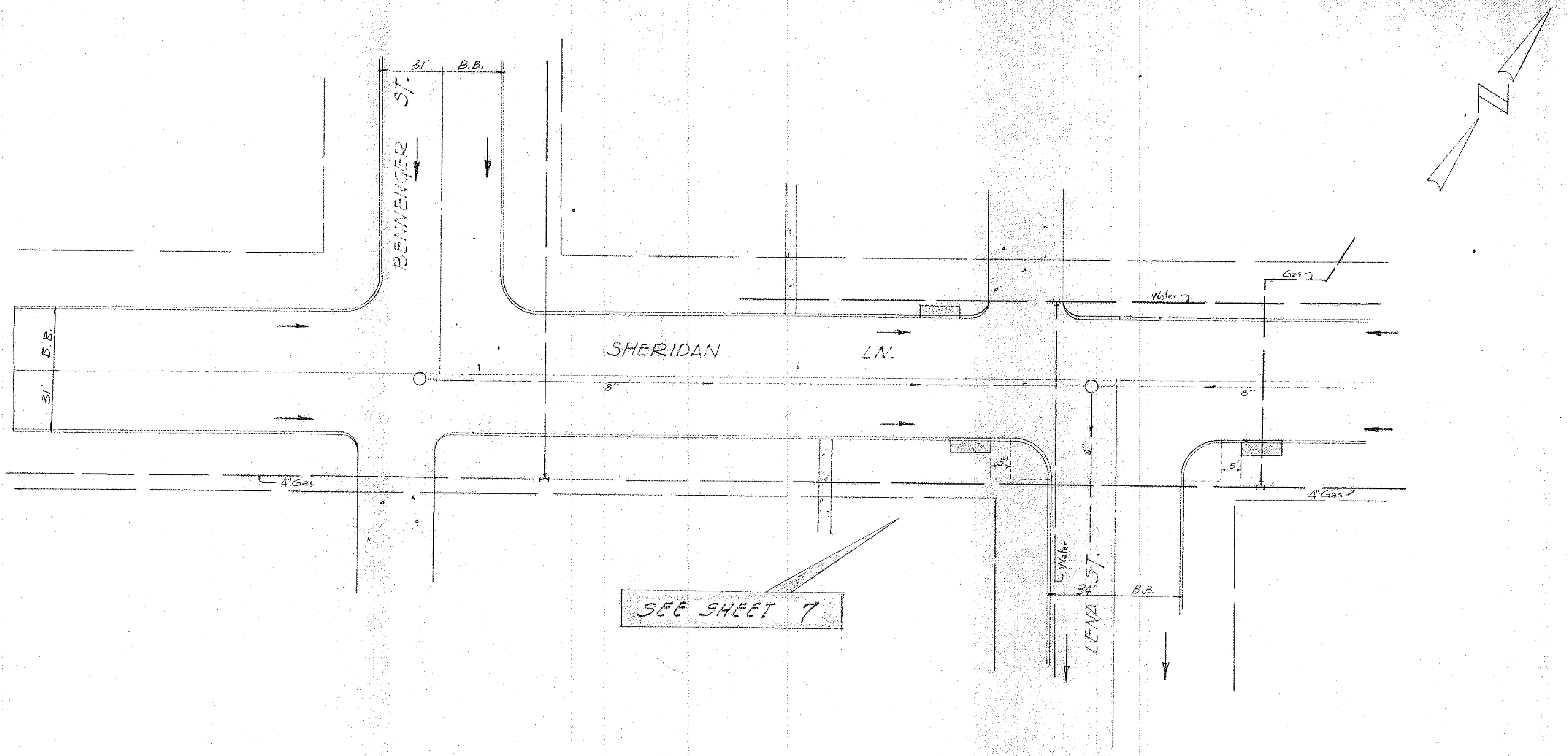
Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: APRIL 1973
SCALE: 1" = 5' VERT.
1" = 50' HORIZ.
JOB NO. 7218
SHEET NO. 10

PLAN NOTES: pg 14 & 27 Book #2
PROFILE NOTES: pg 49 & 50 Book #2

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


31'
B.B.
BENNENGER ST.
SHERIDAN LN.
B.B.
31'
8"
4" Gas
Water
Gas
8"
5'
5'
10"
Water
4" Gas
SEE SHEET 7
LENA ST.
34'
B.B.

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
LENA ST. TRUNK

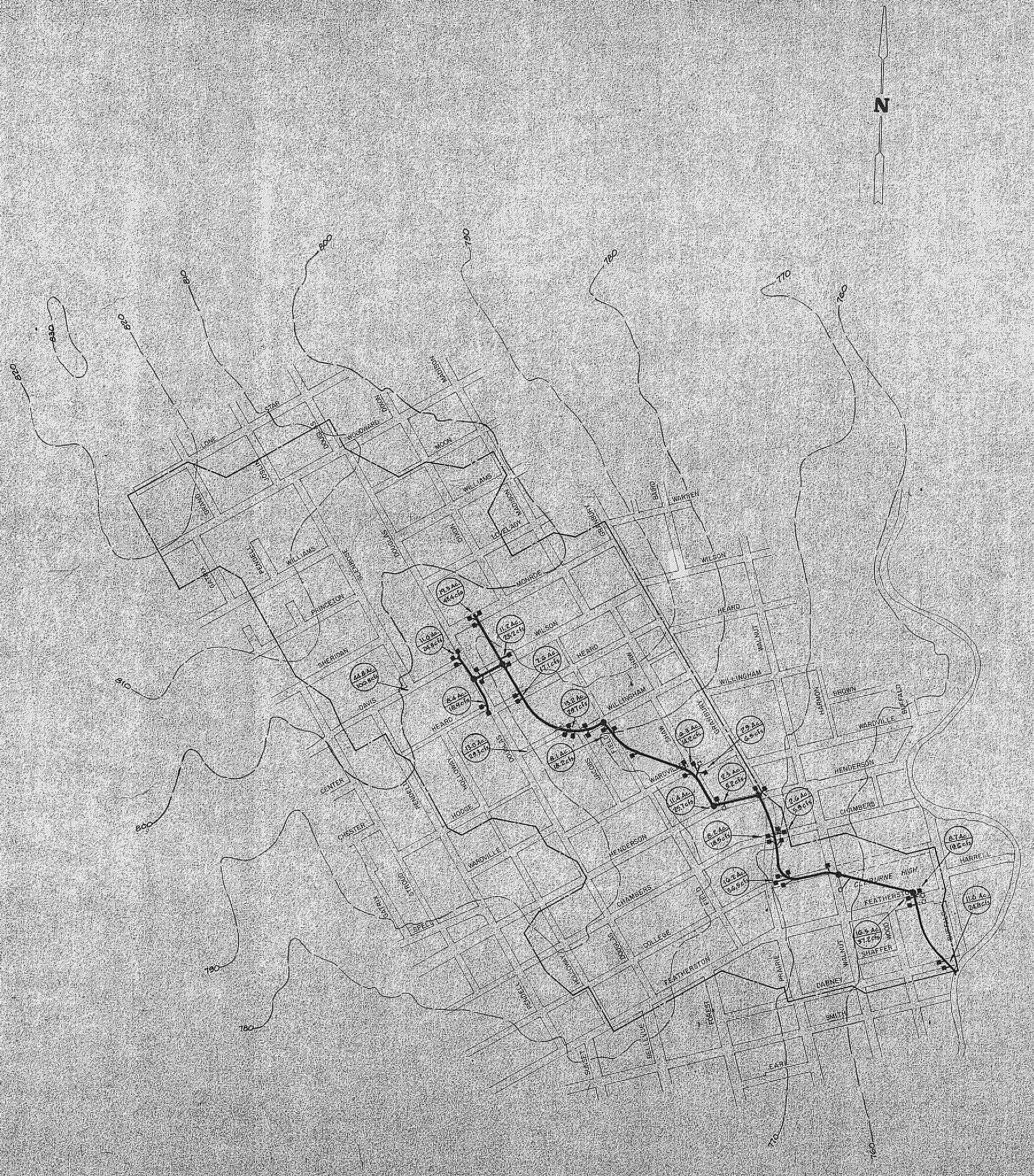
Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE: APRIL 1973
JOB NO. 7218
SHEET NO. 11
SCALE: 1"= 20' Horiz.
1"= 5' Vert.

Plan Notes: p.18 & 56 Book #2
Profile Notes: p 47 & 48 Book #2

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

FL 794.44
8" San. Swr
FL 791.73
2
1
0


N
800
810
820
830
780
770
760
LONE
STAR
WOODWARD
MOON
WILLIAMS
MONROE
WARREN
WILSON
HEARD
WILLINGHAM
BROWN
WARDVILLE
HENDERSON
CHAMBERS
HARRELL
FEATHERSTON
DABNEY
SMITH
EAST
SHAFFER
COLLEGE
PRINCETON
SHERIDAN
DAVIS
CENTER
CHESTER
MOSS
BUFFALO
CLEBURNE HIGH

DRAINAGE DATA

Inlet Time - 15 Min.
I5 = 5.00
C = 0.45
IxC = 2.25
Q = 2.25 x Acres.

Contract "C"

CITY OF CLEBURNE, TEXAS

Storm Sewer Improvements
Drainage Area Map
Dabney St. Trunk

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED W.J.W.	APPROVED W.J.W.
DATE MAY 1973	SCALE 1" = 400'
JOB NO. 7218	SHEET NO. 2

PLAN

NOTE BOOK No.

SURVEYED

PLOTTED

ALIGNMENT CHECKED

RT. OF WAY CHECKED

BY

DATE

PROFILE

NOTE BOOK No.

SURVEYED

PLOTTED

GRADES CHECKED

B. M.'s NOTED

STRUCTURE NOTATIONS CHECKED

BY

DATE

Grade To Drain
0+00 Pipe
Type "B" Hdwl. For 78" Conc. Pipe
78" ⌀
0+00
0+93.5 ± Point
Install 10' Inlet and 21" Pipe
DABNEY ST.
Rem. & Salvage 60" R.C. Pipe (No Pay)
Install 10' Inlet and 21" Pipe
Rem. & Rep. Asph. Pvmt. with Curb & Gutter As Per Detail Sheet
Water
20° 55'
1+38 P.C.
1+59.49 P.T.
Δ = 11° 10'
T = 9.78
R = 100.0'
L = 19.49
Gravel Drive
Well w/ Flower
Gravel Drive
1-S-F #206
Heavy Trees & Shrubs Cover
2+45.00 P.C.
2+83.42 P.T.
Δ = 21° 30'
T = 18.99
R = 100.0
L = 37.52
Garden
Survey Line
33° 04'
3+50.10 P.C.
4+02.46 P.T.
Δ = 30° 00'
T = 26.73
R = 100.0
L = 52.36
46° 16'
Remove Hdwl. (No Pay)
Water Faucet
Gas Light
Remove 6'x4' Arch Pipe (No Pay)
Arch Pipe
Rem. & Rep. Shrub
Rem. & Rep. Gravel Drive
1-S-F Garage
1-S-F Garage
1-S-F
1-S-F #207
1-S-F
78" ⌀
6+00
MATCH LINE
755
750
745
740
735
730
0+00 Type 'B' Hdwl.
FL Creek 737.90
FL 78" Pipe 737.00
H.G. 743.50
78" on 0.95 %
FL 739.31
0+93
1+00 ± Rt. 20° 55'
0+99 - 21" Inlet Lead
FL 78" 737.94
FL 21" 740.32
1+17 ℄ Dabney St.
60" R.C.P.
C = 340 cfs.
0.83 % FL 740.30
1+40
1+42 - 21" Inlet Lead
FL 78" 738.15
FL 21" 740.75
1+60 Grade Garage
FL 78" 738.52
H.G. 745.02
H.G. 745.45
S = 0.0095
n = 0.013
V = 15.7
Q = 505.2
C = 512
S = .0085
3+00 ± Lt. 33° 04'
3+60 ± Rt. 46° 16'
n = 0.013
4+06 Arch Conc. Pipe & Hdwl. Remove
FL 744.93
V = 14.8
Q = 450.4
C = 485
78" on 0.85 %
6' x 4' Conc. Arch Pipe - C = 186
0.651 %
H.G. 749.19
FL 747.43
FL 78" 742.26
600 L.F. of 78" Conc. Pipe
PLAN NOTES: BK 4
0
1
2
3
4
5
6

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: C.J.A.

APPROVED: W.I.W.

DATE:

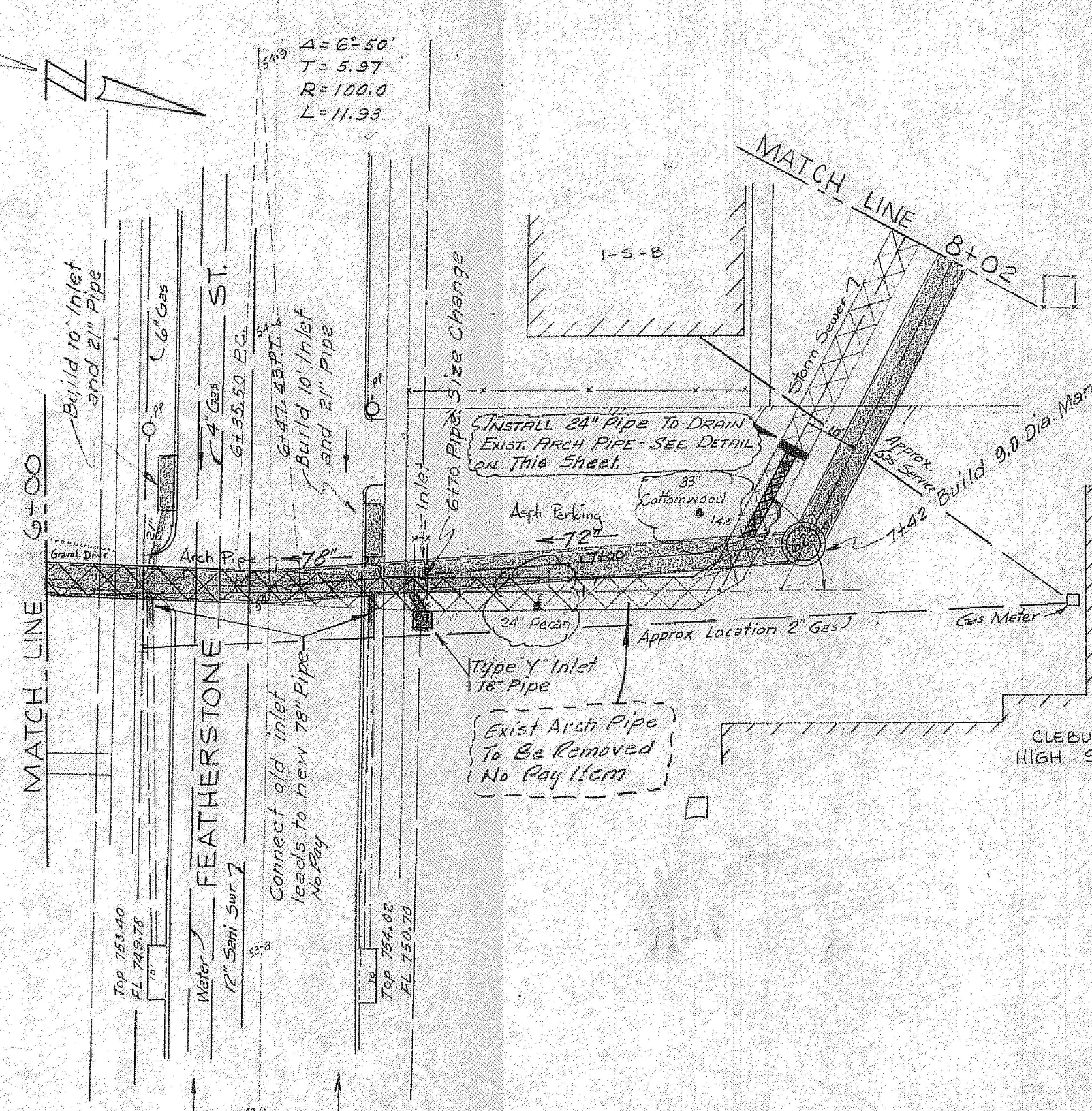
JOB NO. 7218

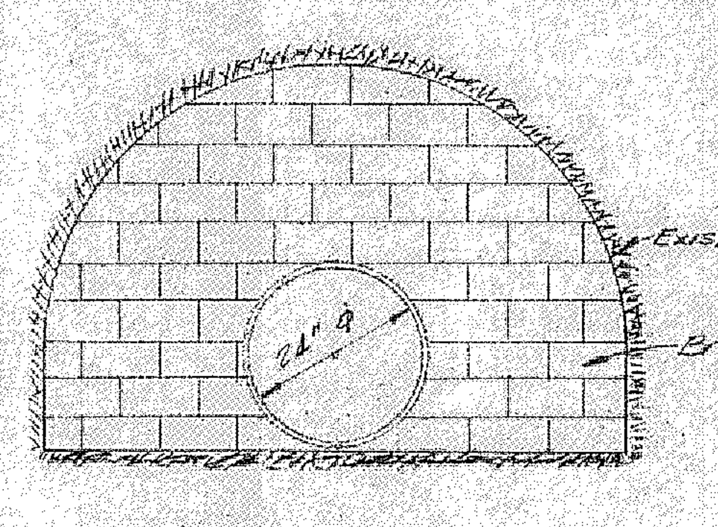
SHEET NO. 3

SCALE: 1" = 20' Horiz. 1" = 5' Vert.

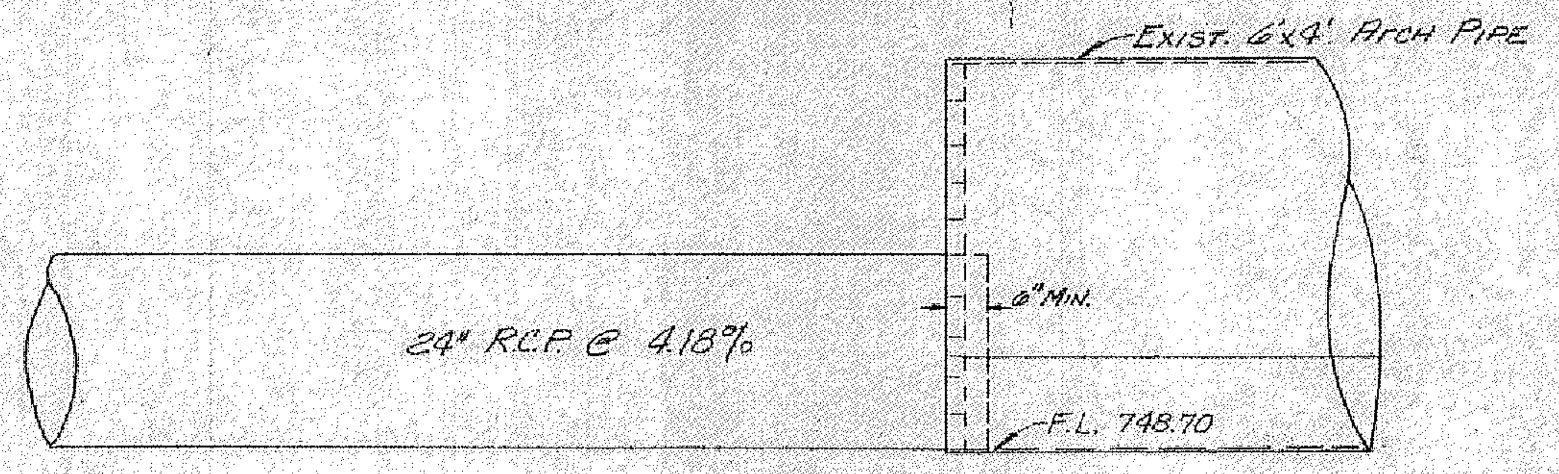
K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

48 7008 MADE IN U.S.A.


Δ= 6°50'
T= 5.97
R= 100.0
L= 11.93
MATCH LINE 6+00
Build 10' Inlet and 21" Pipe
6" Gas
4" Gas
FEATHERSTONE ST.
6+35.50 P.C.
6+47.43 P.T.
Build 10' Inlet and 21" Pipe
6+70 Pipe Size Change
Inlet
Water
12" Semi Sur
Top 753.40
FL 749.78
Top 754.02
FL 750.70
Connect old Inlet leads to new 78" Pipe No Pay
Arch Pipe
78"
Gravel Drive
Type 'Y' Inlet 18" Pipe
Exist Arch Pipe To Be Removed No Pay Item
24" Pecan
INSTALL 24" Pipe To Drain Exist. Arch Pipe - See Detail on This Sheet
Asph. Parking
72"
33" Cottonwood
Approx Location 2" Gas
Gas Meter
Approx. Gas Service
7+42 Build 9.0 Dia. Manhole
Storm Sewer
MATCH LINE 8+02
1-S-B
CLEBURNE HIGH SCHOOL


Exist 6'x4' Arch Pipe
Brick Facia
24" φ

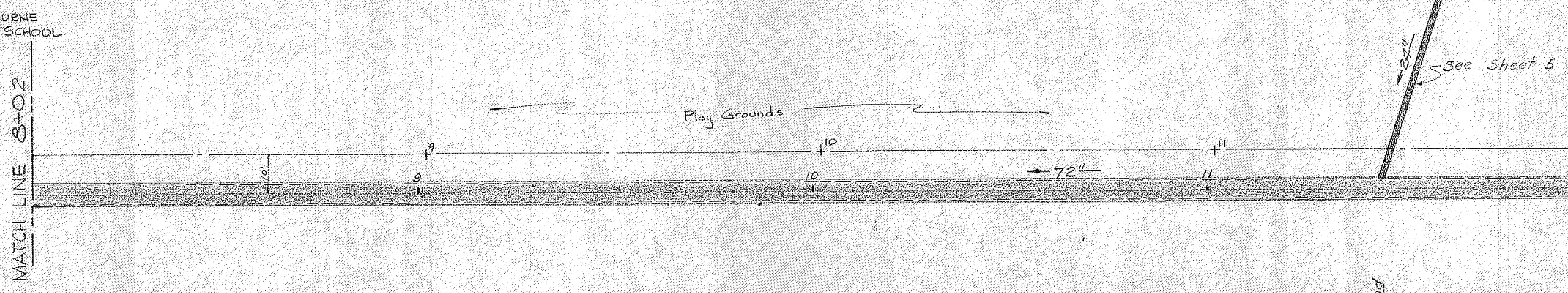
SECTION A-A


EXIST. 6'x4' ARCH PIPE
24" R.C.P. @ 4.18%
6" MIN.
F.L. 748.70

CITY OF CLEBU
STORM SEWER IMP
DABNEY ST.

Riewe & Wischmeyer,
CONSULTING ENGINEERS
DALLAS, TEXAS

JOB NO. 7218
SHEET NO. 4


MATCH LINE 8+02
Play Grounds
9
10
11
72"
24"
See Sheet 5

S=.0085 n=0.013 V=14.8
Q=480.4 C=485
6+18 21" Inlet Lead
6+41.6 Radius Line
6+49 21" Inlet Lead
6+67 18" Inlet Lead
6+69 Pipe Elev's
6+70 Pipe Size Change
7+45.31 Sta. 6+00 Survey
7+42 9.0 Dia. Manhole
Top 752.31
FL Lateral From Exist. 6x4' Arch Pipe 747.73
H.G. 749.13
H.G. 749.79
H.G. 749.82
FL 748.82
6'x4' Conc. Arch Pipe
FL 747.73
0.85% Vel
C=155
78" on 0.85%
72" on 0.62%
72" on 0.68%
Conc. Collar Not a pay Item
FL 78" 742.26
FL 78" 742.41
FL 21" 745.79
FL 78" 742.63
FL 21" 745.00
FL 78" 742.82
FL 72" 742.85
FL 78" 742.83
FL 18" 745.33
FL 72" 745.79
FL 24" 742.79
FL 72" OUT 743.41
FL 72" IN 743.41
532 L.F. of 72" Conc. Pipe
70 L.F. of 78" Conc. Pipe
S=0.105 n=0.013 V=15.3 Q=224.0 C=430
11+45 24" Inlet Lead
FL 72" 746.30
FL 24" 748.30
H.G.
PLAN
6
7
8
9
10
11

PLATE 1—SINGLE PLAN-PROFILE C. P. R. & R. S. STANDARD
L. I. RIDGWAY COMPANY, INC.
100% RAG — MADE IN U.S.A.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R. OF WAY CHECKED
BY
DATE

FL. 752.62
Storm Sewer
FL. 752.80
PLUG INLET
24"
ST.
36' B.B.
See sheet 4 for conn.
MATCH LINE 12+00
SEWER 12102
WALNUT
12+24 ± 9.0 Dia. Manhole
12" San. Swr
12+37.30 P.C.
12+95.01 P.T.
Δ = 47°14'
T = 30.61
R = 70.0
L = 57.70
N
Asph. Parking
2" Gas
COLLEGE
72"
PLUG INLET
NEW 18" R.C.P.
Conn. 18" to 72" Pipe
12" San. Swr
Survey Line
Build 8" Brick Bulkhead south side of inlets
4' Walk
Gravel Drive
Conc. Drive
2" Gas
4' Walk
ST.
Build 6' Inlets
Build 5' Inlet
Build 4' Inlet
Porch
1-S-F #322
1-S-F #318
16+22.70 P.C.
Δ = 110°20'
T = 143.70
R = 100.0
L = 192.57
18+00
18+15.27 P.T.
Proposed Street
Proposed R.O.W.
MATCH LINE
18+20
2-S-F Garage
1-S-F Garage
Stairs
MATCH LINE 18+00 ON SURVEY LINE
1-S-B
Asph. Parking
Build 6' Inlet
Conn. Ex. 24" to New Line
4" Gas
6" San. Swr
4' Walk
S = .0105
n = 0.013
V = 15.5
Q = 424.0
C = 430
12+19.40 ± Rt. 45° 17' (Sur. vey)
12+24 ± 9.0 Dia. M.H.
12+48 Old 24" Inlet Lead
12+65 New 18" Inlet Lead
12+74.60 ± Lt. 70°30' Walnut St. Survey
12+93 Old 18" Inlet Lead
H.G. 755.19
F.L. M.H. 754.76
H.G. 756.75
H.G. 756.84
72" ON 0.66%
Grade Break
12+02 F.L. 72" 746.55
F.L. 72" 746.80
F.L. 30" 751.00
F.L. 72" 747.02
F.L. 24" (Old) 749.02
F.L. 72" 747.18
F.L. 18" 749.35
F.L. New 18" 749.70
F.L. 72" 747.45
F.L. 72" 747.50
S = .0090
n = 0.013
V = 14.4
Q = 405.8
C = 405
14+55-21" Inlet Lead (Rt.)
14+55-21" Inlet Lead (Lt.)
12" San. Swr
72" ON 0.92%
F.L. 72" 748.80
F.L. 21" 751.05
F.L. 21" 751.06
618 L.F. 72" Conc. Pipe
F.L. 72" 749.34
16+50 ± Rt. 89°30'
F.L. M.H. 753.51
16+60 Grade Break F.L. 750.80
S = .0085
n = 0.013
V = 14.1
Q = 387.5
C = 390
16+95-15" Inlet Lead
17+06-24" Inlet Lead
H.G. 760.66
H.G. 760.53
H.G. 761.51
72" ON 2.44%
F.L. 72" 751.65
F.L. 15" 756.00
F.L. 72" 751.85
F.L. 24" 755.70
18+20
F.L. 72" 754.71
PLAN NOTES: BK #4 & #6
770
765
760
755
750
745
12
13
14
15
16
17
18

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE:
JOB NO. 7218
SHEET NO. 5
SCALE: 1" = 20' Hor.
1" = 5' Vert.

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

F

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
EL. OF WAY CHECKED
BY
DATE

18+20 Sewer Match Line
MATCH LINE 18+00
24+60 MATCH LINE
N
1-S-F Garage
1-S-F Garage
12" Sani Swr
4' Conc Walk
72"
Build 6' Inlet
6" Water
ST.
Walk
15"
Build 6' Inlet
Build 8" Brick Bulkhead around 27" Pipe and connect 27" pipe to 72 pipe
6x4 Arch Culv.
CHAMBERS
Plug Exist. Arch Pipe
Remove Inlets
24"
15"
4' Gas
Build 4' Inlets
Build 6' Inlet
1-S-F
Walk
Conc.
Car Port
Conc.
1-S-F
1-S-F Garage
1-S-B Western Auto
6' Conc Walk
GRANBURY
Proposed Street
Proposed R.O.W.
STREET
Start Bore 22+65
Exist. Curb
80' BORE
6" Gas
Water
4' Gas
End Bore 23+45
12" Sani
70.0'
59.6'
ST.
HENDERSON
(U.S. HWY. # 67)
Asph Parking
Asph Curb
Walk
Conc.
72"
Build 10' Inlet
2" Gas
Water
23+52.6 Build 9.0 Dia. Manhole
GRANBURY
8" Sani Swr
Build 10' Inlet
4' Gas
S=.0065 n=0.013 V=14.1
Q=357.5 C=390
19+97-18" Inlet Lead
19+75.5 ± L.t. 90° 35' (Inside)
20+24-18" Inlet Lead
20+31-27" in old 6x4 Culv.
20+33-24" Inlet Lead
CHAMBERS ST.
H.G. 763.81
H.G. 764.23
H.G. 761.51
6x4 Conc. Arch Pipe on 2.75%
72" ON 0.92%
72" ON 1.00%
F.L. 72" 752.27
F.L. 18" 756.15
F.L. 72" 753.90
F.L. 18" 756.40
F.L. 72" 754.15
F.L. 27" 756.40
F.L. 72" 754.21
F.L. 24" 756.23
F.L. 72" 754.23
20+40 GRADE BREAK F.L. 72" 754.29
690 L.F. OF 72" CONC PIPE
(STRM SWR STATIONS)
HENDERSON ST
23+09 ±
23+47-21" Inlet Lead
23+42.6 ± L.t. 90° 56' (Inside)
23+52.6 ± L.t. 9.0 Dia. Manhole
S=.0075 n=0.013 V=13.1
Q=363.1 C=365
H.G. 767.01
72" ON 0.75%
F.L. 72" 759.02
F.L. 21" 761.17
F.L. 72" OUT 758.95
F.L. 72" IN 759.08
F.L. 21" IN M.H. 761.11
24+60 = F.L. 72" 759.29
Start Bore 22+65
End Bore 23+45
PLAN NOTES: BK #2 & #6
775
770
765
760
755
750
19
20
21
22
23
24
18
19
20
21
22
23
24
(SURVEY STATIONS)

80 L.F. BORE UNDER HWY. #67

72" GALV. CIRCULAR CORR. STEEL PIPE, 12 GAGE OR 72" R.C.P., A.S.T.M. C-76, CLASS III WALL "B".

VOIDS BETWEEN PIPE & EARTH SHALL BE FILLED WITH 1:7 GROUT INCLUDING 5% AIR ENTRAINMENT

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

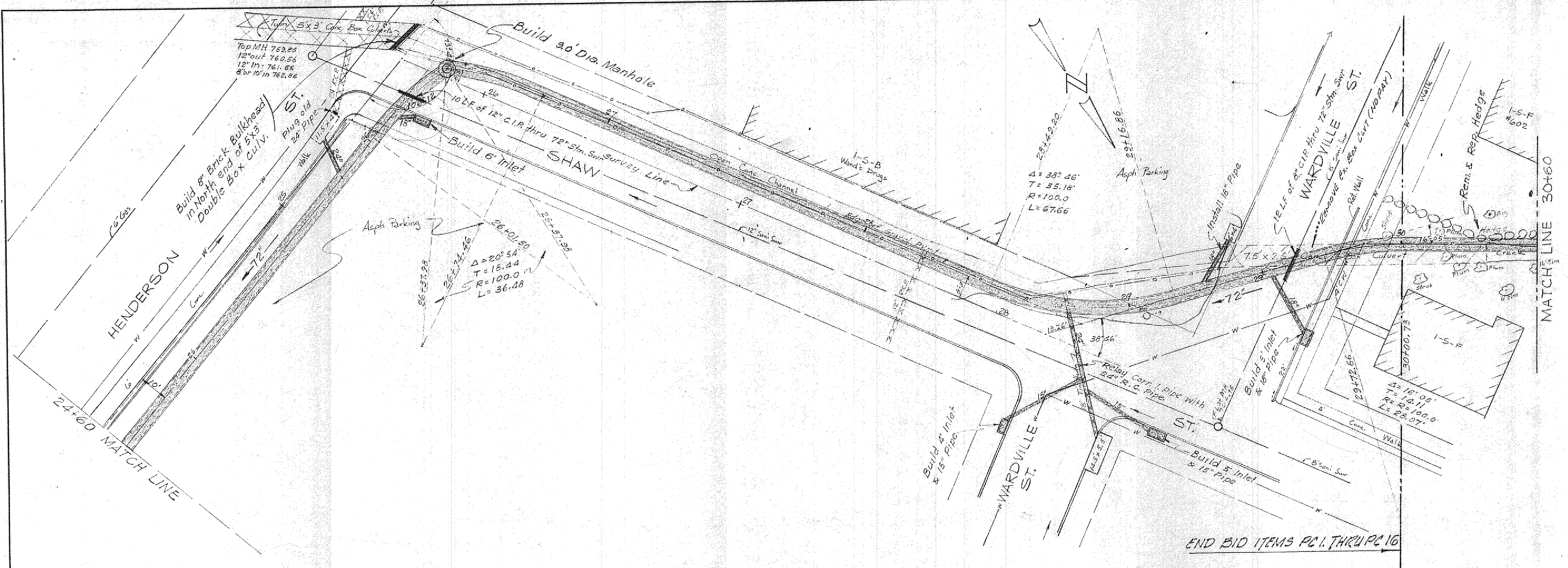
DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE:
SCALE: 1" = 20' Horiz. 1" = 5' Vert.
JOB NO. 7218
SHEET NO. 6

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		


Twin 5'x3' Conc. Box Culverts
Top MH 763.85
12" out 760.56
12" In 761.66
8" or 10" in 762.86
Build 8" Brick Bulkhead in North end of 5'x3' Double Box Culv.
ST.
Plug old 24" Pipe
6" Gas
HENDERSON
W
Conc.
Walk
72"
24"
25
26
10'
6'
24+60 MATCH LINE
Build 9.0' Dia. Manhole
10 LF of 12" C.I.P. thru 72" Stm. Swr
Build 6' Inlet
18"
SHAW
Survey Line
Asph Parking
26+01.50
25+37.98
26+37.98
26+74.46
Δ = 20° 54'
T = 18.44
R = 100.0
L = 36.48
27
12" Sani Swr
Open Conc. Channel
Edge of Gravel Pkg
I-S-B
Ward's Drugs
N
28+49.20
29+16.86
Δ = 38° 46'
T = 35.16'
R = 100.0
L = 67.66
Asph Parking
28
29
13.36'
38° 46'
24"
Relay Corr. I. pipe with 24" R.C. Pipe
Build 4' Inlet & 15" Pipe
15"
14.5 x 5.5
WARDVILLE ST.
ST.
Build 5' Inlet & 15" Pipe
8" Sani Swr
Install 18" Pipe
72"
7.5' x 2.5' Conc. Box Culvert
12 L.F. of 8" C.I.P. thru 72" Stm. Swr
WARDVILLE ST.
8" Sani Swr
Remove Ex. Box Culvt (NO PAY)
Ret Wall
Build 5' Inlet & 18" Pipe
Conc. Walk
29+72.66
30+00.73
Δ = 16° 05'
T = 14.11
R = 100.0
L = 28.07'
30
16° 05'
Walk
Shrub
Plum
Elm
Creek
Hedge
Rem. & Rep. Hedge
I-S-F #602
I-S-F
MATCH LINE 30+60
END BID ITEMS PC 1. THRU PC 16

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE:
JOB NO. 7218
SHEET NO. 7
SCALE: 1"=20' Horiz.

PROFILE
NOTE BOOK
No.

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B. M.'s NOTED		
STRUCTURE NOTATIONS CHECKED		

S = .0075 n = 0.013 V = 13.1
Q = 363.1 C = 365
25+83-24" Inlet Lead
SHAW ST
26+11-18" Inlet Lead
26+22-12" San Swr
25+68 ± Rt. 106°12' Inside Spring
26+37.98 ℄ 9.0' Dia Manhole
H.G. 767.01
H.G. 768.35
H.G. 768.89
Twin 5'x3' Conc. Box Culv.
C = 371 cfs
FL 765.6
72" on 0.75%
FL 72" 759.89
FL 72" 760.91
FL 24" 762.81
FL 72" 761.02
FL 18" 763.27
FL 72" Out 761.22
FL 72" In 761.32
S = .0060 n = 0.013 V = 11.7
Q = 332 C = 330
28+77.5-24" Inlet Lead
28+19 ± Lt 38° 46'
29+11-8" San Swr
29+26-18" Inlet Lead
29+52-18" Inlet Lead
WARDVILLE ST
29+37.90 ± Rt 16° 05'
H.G. 771.42
7.5 x 2.5 Conc Box Culv
C = 235 cfs
72" on 0.60%
FL 72" 763.76
FL 24" 764.46
FL 72" 763.05
FL 18" 765.30
FL 72" 763.20
FL 18" 765.45
30+60 FL 72" 763.85
600 L.F. of 72" Conc. Pipe
PLAN NOTES BK #4
770
765
760
755
24+60
24
25
26
27
28
29
30
30+50

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

PLAN
NOTE BOOK
No.

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		

PROFILE
NOTE BOOK
No.

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B. M.'s NOTED		
STRUCTURE NOTATIONS CHECKED		

MATCH LINE 30+60
1-S-F Garage
1-S-F
72"
Creek
31
32
34°31'
36°29'
31+79.30
32+43.48
Δ = 36°29'
T = 32.96
R = 100.0
L = 63.68
Pecan Grove
Garden
Survey Line 33
Asph. Pvmt.
FIELD
Type "Y" Inlet
34+00
79°41'
34+43.37
Creek
54°59'
Gravel Drive
2" Gas
PP
35
Δ = 54°59'
T = 36.43'
R = 70.0'
L = 67.18
34+41.08
35+08.26
35+10.16
35+41.03
Δ = 25°16'
T = 15.69
R = 70.00
L = 30.87
1-S-F
Rem. & Salvage 3 pcs. of 30" R.C.P.
Conc. Drive
72"
3-30" R.C.P. Exist.
Type "Y" Inlet
12" San. Swr.
27°50'
Type "Y" Inlet
36+19.61 P.C.
36+27.20
WILLINGHAM
35+67.03 P.C.
36+15.61 P.T.
MATCH LINE
Δ = 27°50'
T = 24.78
R = 100.0
L = 48.58
S = .0060
n = 0.013
V = 11.7
Q = 325.7
C = 550
(Survey)
(Sewer)
HG 771.42
Aver. Top of Banks
72"
0.60%
18" Inlet Lead
18" Inlet Lead
18" Inlet Lead
HG 774.66
3-30" Pipe
S = .0060
n = 0.013
V = 11.7
Q = 311.5
C = 330
FL 72" 765.75
FL 18" 768.00
FL 72" 766.71
FL 72" 767.01
FL 72" 767.09
30+60 FL 72" 763.85
567 L.F. of 72" Conc. Pipe
PLAN NOTES: SH. 4
775
770
765
760
755
30
31
32
33
34
35
36

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: W.J.W.
APPROVED: W.J.W.
DATE:
JOB NO. 7218
SHEET NO. 8
SCALE: 1" = 20' Horiz. 1" = 5' Vert.

PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

MATCH LINE 48+00
Creek
33"
49
Type "Y" Inlet
Type "Y" Inlets
MONROE ST.
Gravel Pvmt.
Gravel Drive
Dirt Drive
4" Gas
1-S-F
1-S-F Garage
1-S-F Shed
50
51
51+47
PP
St. Sign
San. Swr.
DOUGLAS ST.
Asph. Pvmt.
51+47 = 0+00
DOUGLAS ST.
Asph. Pvmt.
Asph. Drive
Gravel Drive
Conc. Drive
WM
S = .0070
n = 0.013
V = 7.6
Q = 43.4
C = 44
49+17 Wye Conn.
49+38.28 + RH 50°05' (Inside)
49+47 Wye Conn.
49+53 Wye Conn.
49+56 End
HG 786.61
HG 787.70
8" Brick Bulkhead
33" on 0.70%
FL 33" 780.20
FL 33" 781.02
FL 18" 781.64
FL 33" 781.23
FL 18" 781.85
FL 33" 781.27
FL 18" 781.89
FL 33" 781.29
51+47 End Survey
Douglas St.
790
785
780
775
156 LF of 33" Class III Reinf. Conc. Culv. Pipe
PLAN NOTES BK #4 #5
48
49
50
51
0
1
2

CITY OF CLEBURNE, TEXAS

STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

Riewe & Wischmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGNED: C.J.A.
APPROVED: W.J.W.
DATE:
SCALE: 1" = 20' Horiz.
1" = 5' Vert.

JOB NO. 7218
SHEET NO. 11

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

Build 6' Inlet
Build 10' Inlet
HEARD STREET
"LINE B"
2+70 End Survey
Δ = 43°00' T = 31.51 R = 80.0 L = 60.04
DOUGLAS
STREET
2+04.09 ℄ 7.0' Dia. Manhole
8" C.I. Pipe thru 51" Pipe
Exist Water Main
Exist 8" Sani Swr.
New Survey Line
Exist 4" Gas
"LINE A"
Δ = 37°00' T = 26.77 R = 80.0 L = 51.66
DAVIS STREET
Future Sewer
Build 10' Inlet
PI = 2+28
Build 8' Inlet
Build 6' Inlet
Asph. Pav't.
Δ = 15°00' T = 10.53 R = 80.0 L = 20.94
Δ = 18°00' T = 12.67 R = 80.0 L = 25.13
WILSON 51" STREET
Conc. Walk
Gravel Dr.
MATCH LINE STA 1+00 Sewer 1+02.66
Δ = 31°16' T = 22.39 R = 80.0 L = 43.66
WILSON STREET
Old Survey Line
WILSON ST.
DOUGLAS ST NORTH
"LINE A"
"LINE B"
790
785
780
775
770
137 L.F. of 51" Conc. Pipe
167 L.F. of 48" Conc. Pipe
250 L.F. of 24" Class III Reinf. Conc. Culv. Pipe
0
1
2
3
0
1

[illegible] & Wachsmeyer, Inc.
CONSULTING ENGINEERS
DALLAS, TEXAS

12

CITY OF CLEBURNE, TEXAS
STORM SEWER IMPROVEMENTS
DABNEY ST. TRUNK

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
C.J.A.	R.W.C.	Sept. 75	1" = 20' Horiz 1" = 6' Vert	Freeman	7218	12