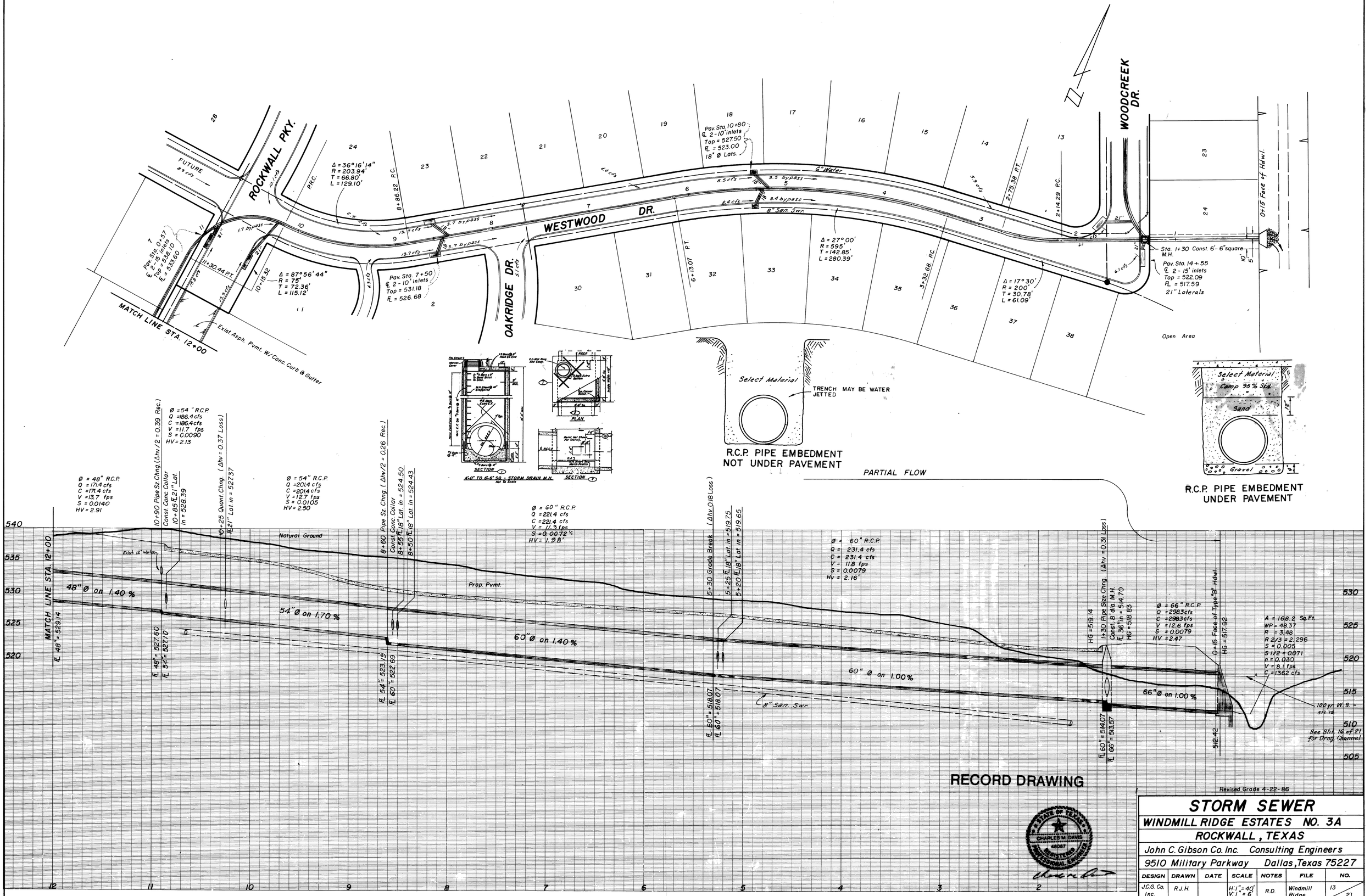
ROCKWALL PKY.
WESTWOOD DR.
OAKRIDGE DR.
WOODCREEK DR.
FUTURE
MATCH LINE STA. 12+00
Exist. Asph. Pvmt. W/ Conc. Curb & Gutter
Δ = 36°16'14"
R = 203.94'
T = 66.80'
L = 129.10'
P.R.C.
8+86.22 P.C.
Pav. Sta. 10+80
℄ 2-10' inlets
Top = 527.50
FL = 523.00
18" Ø Lats.
6" Water
8" San. Swr.
3.5 bypass
3.4 bypass
3.7 bypass
Pav. Sta. 7+50
℄ 2-10' inlets
Top = 531.18
FL = 526.68
Pav. Sta. 0+57
℄ 2-15' inlets
Top = 528.10
FL = 533.60
11+30.44 P.T.
Δ = 87°56'44"
R = 75'
T = 72.36'
L = 115.12'
10+15.92
Δ = 27°00'
R = 595'
T = 142.85'
L = 280.39'
6+13.07 P.T.
3+32.68 P.C.
Δ = 17°30'
R = 200'
T = 30.78'
L = 61.09'
2+72.38 P.T.
2+14.29 P.C.
Sta. 1+30 Const. 6'-6" square M.H.
Pav. Sta. 14+55
℄ 2-15' inlets
Top = 522.09
FL = 517.59
21" Laterals
0+15 Face of Hdwl.
Open Area
Select Material
TRENCH MAY BE WATER JETTED
R.C.P. PIPE EMBEDMENT NOT UNDER PAVEMENT
Select Material
Comp. 95% Std.
Sand
Gravel
R.C.P. PIPE EMBEDMENT UNDER PAVEMENT
PLAN
SECTION
4'-0" TO 6'-6" SQ. - STORM DRAIN M.H.
Not To Scale
PARTIAL FLOW
Ø = 48" R.C.P.
Q = 171.4 cfs
C = 171.4 cfs
V = 13.7 fps
S = 0.0140
HV = 2.91
10+90 Pipe Sz. Chng. (Δhv/2 = 0.39 Rec.)
Const. Conc. Collar
10+85 FL 21" Lat in = 528.39
Ø = 54" R.C.P.
Q = 186.4 cfs
C = 186.4 cfs
V = 11.7 fps
S = 0.0090
HV = 2.13
10+25 Quant. Chng. (Δhv = 0.37 Loss)
FL 21" Lat in = 527.37
Ø = 54" R.C.P.
Q = 201.4 cfs
C = 201.4 cfs
V = 12.7 fps
S = 0.0105
HV = 2.50
8+60 Pipe Sz. Chng. (Δhv/2 = 0.26 Rec.)
Const. Conc. Collar
8+55 FL 18" Lat. in = 524.50
8+50 FL 18" Lat in = 524.43
Ø = 60" R.C.P.
Q = 221.4 cfs
C = 221.4 cfs
V = 11.3 fps
S = 0.0072
HV = 1.98'
5+30 Grade Break (Δhv 0.18 Loss)
5+25 FL 18" Lat. in = 519.75
5+20 FL 18" Lat. in = 519.65
Ø = 60" R.C.P.
Q = 231.4 cfs
C = 231.4 cfs
V = 11.8 fps
S = 0.0079
Hv = 2.16'
1+30 Pipe Size Chng. (Δhv = 0.31 Loss)
Const. 8' dia. M.H.
FL 36" in = 514.70
HG = 518.83
HG = 519.14
Ø = 66" R.C.P.
Q = 298.3 cfs
C = 298.3 cfs
V = 12.6 fps
S = 0.0079
HV = 2.47
0+16 Face of Type "B" Hdwl.
HG = 517.92
512.42
A = 168.2 Sq. Ft.
WP = 48.37
R = 3.48
R 2/3 = 2.296
S = 0.005
S 1/2 = 0.071
n = 0.030
V = 8.1 fps
Q = 1362 cfs
100 yr. W.S. = 511.75
See Sht. 14 of 21 for Drng. Channel
Exist. 12" Water
Natural Ground
Prop. Pvmt.
48" Ø on 1.40%
54" Ø on 1.70%
60" Ø on 1.40%
60" Ø on 1.00%
66" Ø on 1.00%
8" San. Swr.
FL 48" = 529.14
FL 48" = 527.60
FL 54" = 527.10
FL 54" = 523.19
FL 60" = 522.69
FL 60" = 518.07
FL 60" = 518.07
FL 60" = 514.07
FL 66" = 513.57
540
535
530
525
520
515
510
505
12
11
10
9
8
7
6
5
4
3
2
RECORD DRAWING
STATE OF TEXAS
CHARLES M. DAVIS
48087
REGISTERED
PROFESSIONAL ENGINEER
Revised Grade 4-22-86
STORM SEWER
WINDMILL RIDGE ESTATES NO. 3A
ROCKWALL, TEXAS
John C. Gibson Co. Inc. Consulting Engineers
9510 Military Parkway Dallas, Texas 75227
DESIGN
DRAWN
DATE
SCALE
NOTES
FILE
NO.
J.C.G. Co. Inc.
R.J.H.
H: 1" = 40'
V: 1" = 6
R.D.
Windmill Ridge
13/21
6173