PVG. STA 16+75.00
CONST. 15' CURB INLET
T.C. 536.81
F.L. 532.81
HGL-533.12

INSTALL 46.00 L.F.
42" RCP @ 0.50 %

PVG. STA. 16+47.73, 40' RT
CONST. 4' WYE INLET
TOP-536.00
LIP-535.00
FL-529.27

SWALE (SEE GRADING PLAN)

14.7 CFS

8.3 CFS

INSTALL 10.62 L.F.
24" RCP @ 35.16%

LINE 'D-4'
36" RCP

PC 4+90.91

GREENWAY DRIVE

8" SS

2+23.12 LINE 'D-4'
CONST. 6' STORM SEWER MANHOLE
T. RIM-536.81

LINE 'D-4'
42" RCP

1+34.81 LINE 'D-4'
CONST. TYPE 'B' HEADWALL
INSTALL GROUTED ROCK
RIP RAP-MIN. 8" DIMENSION
(35 SY)

PT 7+83.16

LINE 'D-4'
36" RCP

8" WL

MOUNTCASTLE DRIVE

8" SS

9.4 CFS

8.9 CFS

LINE 'D-6'
24" RCP
0.1 CFS

8+81.68 LINE 'D-4'-
0+00.00 LINE 'D-6'
CONST. 5' STORM SEWER MANHOLE
T. RIM-542.93

LINE 'D-4'
36" RCP

10+23.08 LINE 'D-4'
REMOVE EX. HEADWALL AND
CONNECT TO EX. 36" RCP

GREENWAY DRIVE

BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.
ELEV.- 525.31

0 20 40 80
SCALE: 1" = 40'

LEGEND

- (B) - BLOCK LABEL
- (19) - INLET NUMBER
- (1) - CURVE NUMBER
- SANITARY SEWER
- WATER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER

42" RCP
Q_{100}= 75.2 cfs
V_{100}= 7.8 fps
S = 0.0056
CAP= 75.2 cfs

36" RCP
Q_{100}= 52.2 cfs
V_{100}= 7.4 fps
S = 0.0061
CAP= 52.2 cfs

36" RCP
Q_{100}= 38.9 cfs
V_{100}= 5.5 fps
S = 0.0034
CAP= 60.8 cfs
PARTIAL FLOW
VEL.-8.8 fps

0+63.27 LINE 'D-4'
BEGIN GRADE TO DRAIN
L-528.06

1+34.81 LINE 'D-4'
CONST. TYPE 'B' HEADWALL
HG-532.28
42" FL-528.78

2+23.12 LINE 'D-4'
CONST. 6' STORM SEWER MANHOLE
T. RIM-536.81
HG-532.77
HG-532.88
42" FL-528.98
42" FL-529.04
36" FL-529.54

5+40.00 LINE 'D-4'
PVI
36" FL-529.77
36" FL-530.07
36" FL-530.50

8+00.00 LINE 'D-4'
PVI
36" FL-530.37
36" FL-531.87
36" FL-534.15
36" FL-536.43

8+61.59 LINE 'D-4'-
0+20.16 LINE 'S-4'
36" FL-536.75
8" FL-534.20

8+81.68 LINE 'D-4'-
0+00.00 LINE 'D-6'
CONST. 5' STORM SEWER MANHOLE
T. RIM-542.93
36" FL OUT-536.85
36" FL IN-536.85
24" FL IN-537.85

9+11.53 LINE 'D-4'
PROP. 8" WATER
36" FL-537.00
36" FL-537.10
8" FL-534.09

10+23.08 LINE 'D-4'
REMOVE EX. HEADWALL AND
CONNECT TO EX. 36" RCP
36" FL-537.83
36" FL-538.02

PROPOSED GRADE
HGL
GRADE TO DRAIN @ 1.00%
42" RCP @ 0.30%
36" RCP @ 0.30%
36" RCP @ 2.28%
36" RCP @ 0.50%
36" RCP @ 0.83%
EX. 36" RCP @ 0.50%

540
535
530
525
545

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00

AS-BUILT SEPTEMBER 2015
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Brandon Davidson P.E. 87682, on September 10, 2014

CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VI
ROCKWALL, TEXAS

STORM SEWER PLAN AND PROFILE
LINE 'D-4'

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 13068	DATE MAY 2014	SCALE: HOR: 1"=40' VER: 1"=4'	19 OF 26

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