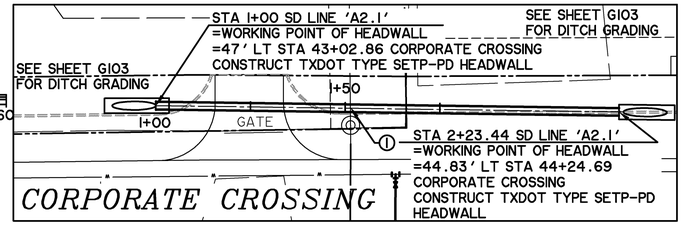
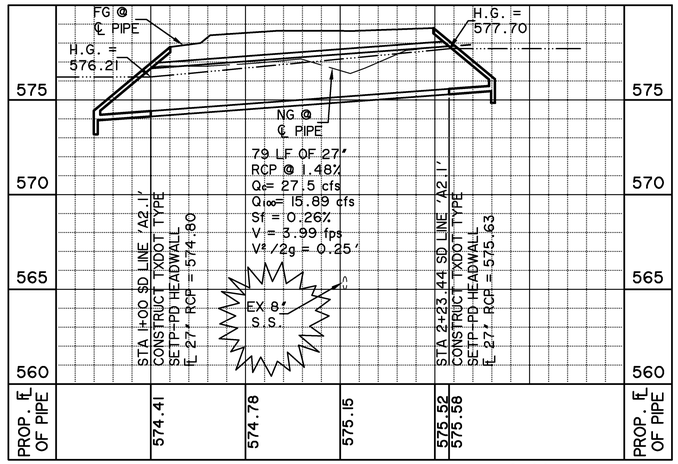
STORMDRAIN 'A-2.1'



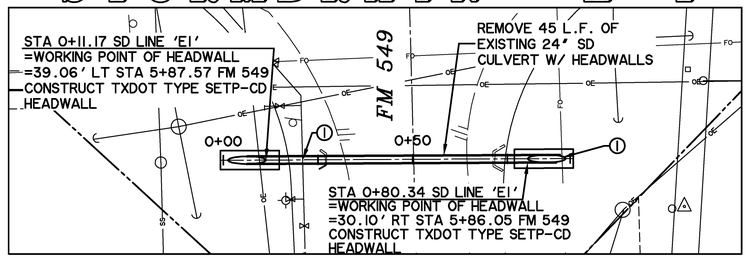


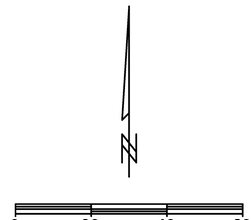
*** BENCH MARKS ***

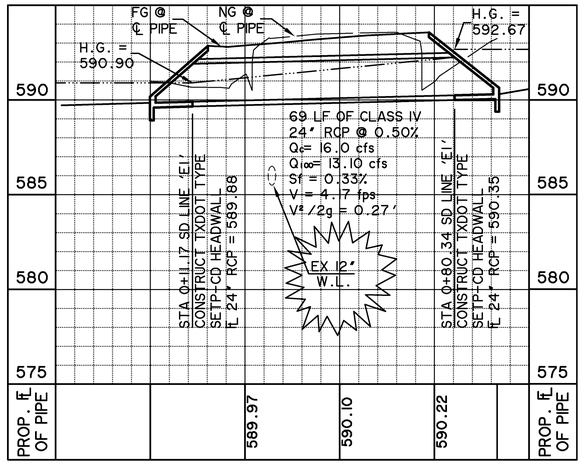
BM A AN "□" CUT IN CONCRETE PAD OF A WATER VALVE MANHOLE LOCATED +/- 55' EAST OF THE EDGE OF PAVEMENT OF FM 549 AND +/-150' SOUTH OF THE EDGE OF PAVEMENT OF SH 276. 595.66 FT.
N 7018916.83, E 2607403.98

BM B AN "□" CUT IN A LIGHT POLE BASE +/-40' WEST OF THE EDGE OF PAVEMENT OF CORPORATE CROSSING AND +/-0.30 MILES SOUTH OF THE EDGE OF PAVEMENT OF IH 30. 581.56 FT.
N 7022945.40, E 2607163.95

STORMDRAIN 'E-1'







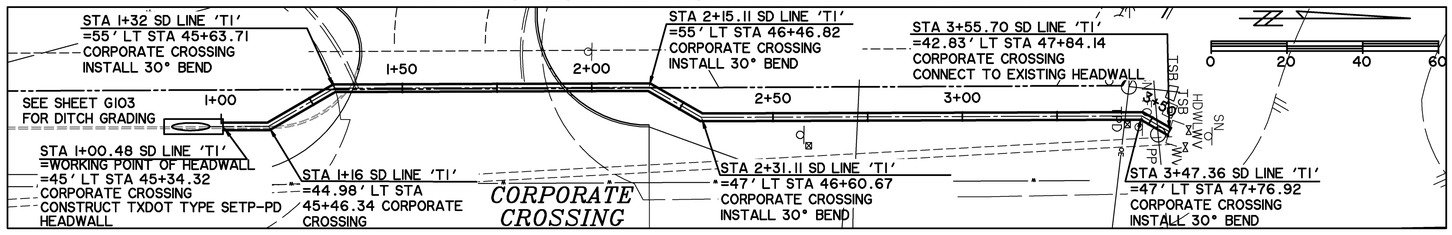
FOR TxDOT DESIGN CRITERIA:

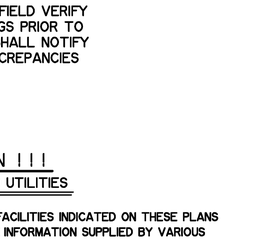
Tc=10 MIN
I_{100}=9.4 IN/HR
Q_{100}=12.4 CFS

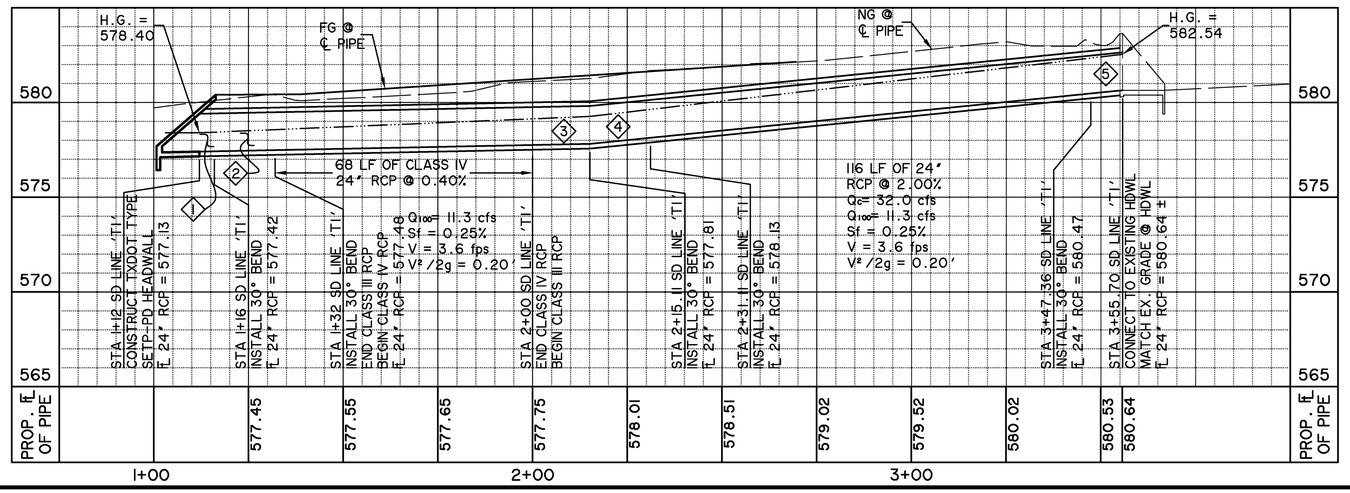
THE CALCULATED HEADWATER FOR THE CULVERT IS 2.99 FEET, WHICH CORRESPONDS TO AN ELEVATION OF 593.24. THE PROPOSED STREET ELEVATION AT THIS LOCATION IS 593.55.

HEADWATER CALCULATION FOR 24" CULVERT - S.D. LINE 'E-1'	
a	0.108786
b	0.662381
c	-0.2338
d	0.057959
e	-0.00558
f	0.000205
D	2
S0	0.005
W	2
Q	12.4
F	3.97042579
HW	2.99

STORMDRAIN 'T-1'







①	4 LF OF 24" RCP @ 0.40% Qc= 14.3 cfs Q100= 11.3 cfs Sf = 0.25% V = 3.6 fps V²/2g = 0.20'
②	16 LF OF 24" RCP @ 0.40% Qc= 14.3 cfs Q100= 11.3 cfs Sf = 0.25% V = 3.6 fps V²/2g = 0.20'
③	15 LF OF 24" RCP @ 0.40% Qc= 14.3 cfs Q100= 11.3 cfs Sf = 0.25% V = 3.6 fps V²/2g = 0.20'
④	16 LF OF 24" RCP @ 2.00% Qc= 32.0 cfs Q100= 11.3 cfs Sf = 0.25% V = 3.6 fps V²/2g = 0.20'
⑤	9 LF OF 24" RCP @ 2.00% Qc= 32.0 cfs Q100= 11.3 cfs Sf = 0.25% V = 3.6 fps V²/2g = 0.20'

NOTES:

① CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

CAUTION !!!
UNDERGROUND UTILITIES

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

RECORD DRAWING 10/11/2013
TO THE BEST OF OUR KNOWLEDGE WIER & ASSOCIATES, INC., HERBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

PREPARED BY:
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701 HIGHLANDER BLVD., SUITE 300 ARLINGTON, TEXAS 76015 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com

CITY OF ROCKWALL
IMPROVEMENTS TO CORPORATE CROSSING (FROM S.H. 276 TO I.H. 30)

CULVERTS PLAN & PROFILE

WA# 08029
STATE OF TEXAS
RONALD RAMIREZ
81821
REGISTERED PROFESSIONAL ENGINEER
Ron Ramirez 10/11/13

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