

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FDH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
CO	CLEAN OUT
WH	MANHOLE
G	GAS METER
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
SN	TRAFFIC SIGN
TELE	TELEPHONE BOX
TV	TV BOX
FP	FLAG POLE
---	PROPERTY LINE
---	O.H. POWER LINES
---	U/G TELEPHONE LINES
---	U/G WATER LINE
---	U/G GAS LINE
-X-X-	FENCE

STORM SEWER DRAINAGE CALCULATIONS TABLE AND FLOW INFORMATION

Line Description	Run-Off Collection Point Station	Distance Between Collection Points	Incremental Drainage Area	Time of Upstream Station (Min)	Rainfall Intensity I (in/hr)	Storm Water Run-off, Q (CFS)	Selected Storm Sewer Size (in)	Slope of Storm Sewer (F/F)	Manning's Coeff. (n)	Velocity in Storm Sewer Pipe (fps)	Velocity at Hydraulic Capacity (fps)	Slope of Hydraulic Gradient Sf (F/F)	Capacity of Storm Sewer Q (CFS)	L'Sf	Head Loss Coeff. K ₂	Inlet & Bend Losses	Time of Travel (Min)	Upstream HGL	Upstream HGL								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Line 'ST-1'	13.66	0.00	13.66		0.90	0.00	10.05	100-yr	9.80	0.00	4.79	18	1.89%	0.013	2.71	8.17	0.0021	14.44	0.03	0.50	0.00	0.06	0.08	10.13	541.58	541.64	
Line 'ST-1'	21.27	13.66	7.61	D2	0.543	0.90	0.49	10.00	100-yr	9.80	4.79	18	1.89%	0.013	2.71	8.17	0.0021	14.44	0.02	1.50	0.11	0.17	0.05	10.05	541.65	541.94	
Line 'ST-2'	36.13	0.00	36.13	B6B	0.143	0.90	0.13	10.00	100-yr	9.80	1.26	18	2.00%	0.013	0.71	8.41	0.0001	14.86	0.01	1.50	0.01	0.01	0.85	10.85	541.79	541.80	
Line 'ST-2H'	10.61	0.00	10.61	B6A, B8	0.682	0.90	0.60	10.00	100-yr	9.80	5.84	18	27.99%	0.013	3.31	31.45	0.0031	55.57	0.03	1.50	0.17	0.25	0.05	10.05	543.73	544.16	

NOTE: LINE 'ST-2H' IS AN EXISTING LINE. IT IS SHOWN ON THIS TABLE FOR VALIDATION OF EXISTING INLET 2 HGL.

CAUTION!!!
UNDERGROUND UTILITIES ARE LOCATED IN THIS AREA. 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTACT LINE LOCATES FOR FRANCHISE UTILITY INFO. CALL BEFORE YOU DIG.
TEXAS EXCAVATION SAFETY SYSTEM (TESS) 1-800-344-8377
TEXAS ONE CALL SYSTEMS 1-800-245-4545
LONE STAR NOTIFICATION CENTER 1-800-669-8344 EXT. 5

BENCH MARK LIST:
BENCHMARK #1
SQUARE CUT FOUND AT SOUTHWEST CORNER OF WATER VAULT LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF THE EAST RIGHT-OF-WAY LINE OF SH 205 AND THE SOUTH RIGHT-OF-WAY LINE OF FM 552.
ELEVATION = 443.09
BENCHMARK #2
CITY OF ROCKWALL MONUMENT (R010) FOUND.
ELEVATION = 524.788

FRANCHISE UTILITY NOTES:
1. TXU ENERGY CONSTRUCTION SERVICES - (800) 711-9112
2. ATMOS ENERGY (GAS) - 903-437-2092 - DINAH WOOD
3. AT&T (PHONE) - 903-457-2092 - DWAYNE WELLS

RECORD DRAWINGS:
IT WAS THE INTENT THAT THE IMPROVEMENTS SHOWN BE CONSTRUCTED ACCORDING TO THESE PLANS AS APPROVED BY THE CITY. THE LINES AND GRADES WERE SET ON THE GROUND FOR CONSTRUCTION ACCORDING TO SAID PLANS. THE CITY INSPECTED THE CONSTRUCTION. WE ARE NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION OTHER THAN THOSE SHOWN. DATE: OCTOBER 10, 2013

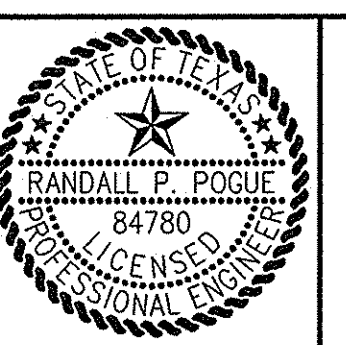
ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

NO.	DATE	DESCRIPTION	
2	10-10-13	RECORD DRAWINGS	
1	5-9-13	REVISED ROOF DRAINAGE DESIGN	
DESIGN	DRAWN	DATE	PI NUMBER
RPP	RND	10-10-2013	1393-12-073

PROJECT INFORMATION
STONE CREEK RETAIL ADDITION
BLOCK A, LOT 4, STONE CREEK RETAIL ADDITION
CITY OF ROCKWALL, TEXAS
W.T. DEWEESE SURVEY, ABSTRACT NO. 71
PROPOSED USE: RETAIL
ZONING: PD-70

OWNER/DEVELOPER
METROPLEX ACQUISITION FUND, L.P.
15150 PRESTON ROAD, SUITE 210
DALLAS, TEXAS 75248
MR. GREY STOGNER
(214) 343-4477 PHONE
(214) 340-2029 FAX

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RANDALL P. POGUE, P.E. 84780 ON 03-01-2013. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



POGUE
ENGINEERING & DEVELOPMENT COMPANY, INC.
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MCKINNEY, TEXAS 75069
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(214) 544-8880 PHONE
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www.PogueEngineering.com

STORM SEWER PLAN
STONE CREEK RETAIL ADDITION
BLK A, LOT 4, STONE CREEK RETAIL ADD'N
W.T. DEWEESE SURVEY, ABSTRACT NO. 71
CITY OF ROCKWALL, TEXAS

SHEET NO. C5.01

DWG NO: 1393-12-073-STORM SEWER PLAN.DWG

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