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Consultants



T.B.P.E. FIRM REGISTRATION NO. F - 303

PHONE 972-717-5151 FAX 972-717-2176
4500 FULLER DRIVE - SUITE 220 IRVING, TEXAS 75038

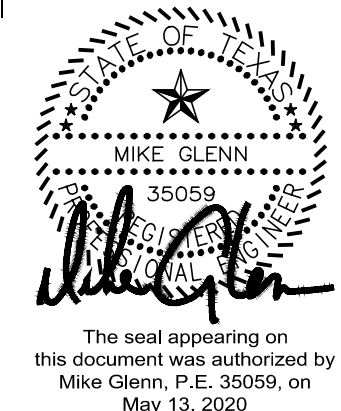
Notes



8 - RH #40	RAH	CMG	2020.05.13
7 - RH #79 - PC 20 - REV	RAH	CMG	2020.03.13
6 - RH #116 AND #117	RAH	CMG	2020.01.13
5 - RH #20 AND #21	RAH	CMG	2019.07.23
4 - RH #16	RAH	CMG	2019.07.12
3 - CITY COMMENTS	RAH	CMG	2019.04.30
2 - ASI #1 - CITY COMMENTS	RAH	CMG	2019.04.02

Revision	By	Appd	YYYY.MM.DD
100%CD - For Bidding and Construction	RAH	CMG	2019.03.01
Issued	By	Appd	YYYY.MM.DD

Permit-Seal



The seal appearing on this document was authorized by Mike Glenn, P.E. 35059, on May 13, 2020.

Client/Project

Rockwall ISD

Elementary School #15

2911 Greenway Drive
Rockwall, TX 75087

Title

EXISTING DRAINAGE AREA MAP

Project No.

214000654

Scale

AS SHOWN

Revision

Drawing No.

C04.07

RECORD DRAWING
THIS IS TO CERTIFY THAT CHANGES AND CORRECTIONS HAVE BEEN MADE TO CONFORM TO THE CONTRACTOR'S RECORD OF THIS PROJECT.
SIGN: *Cheryl Army*
DATE: 06/01/2020
Glenn Engineering Corporation

LEGEND

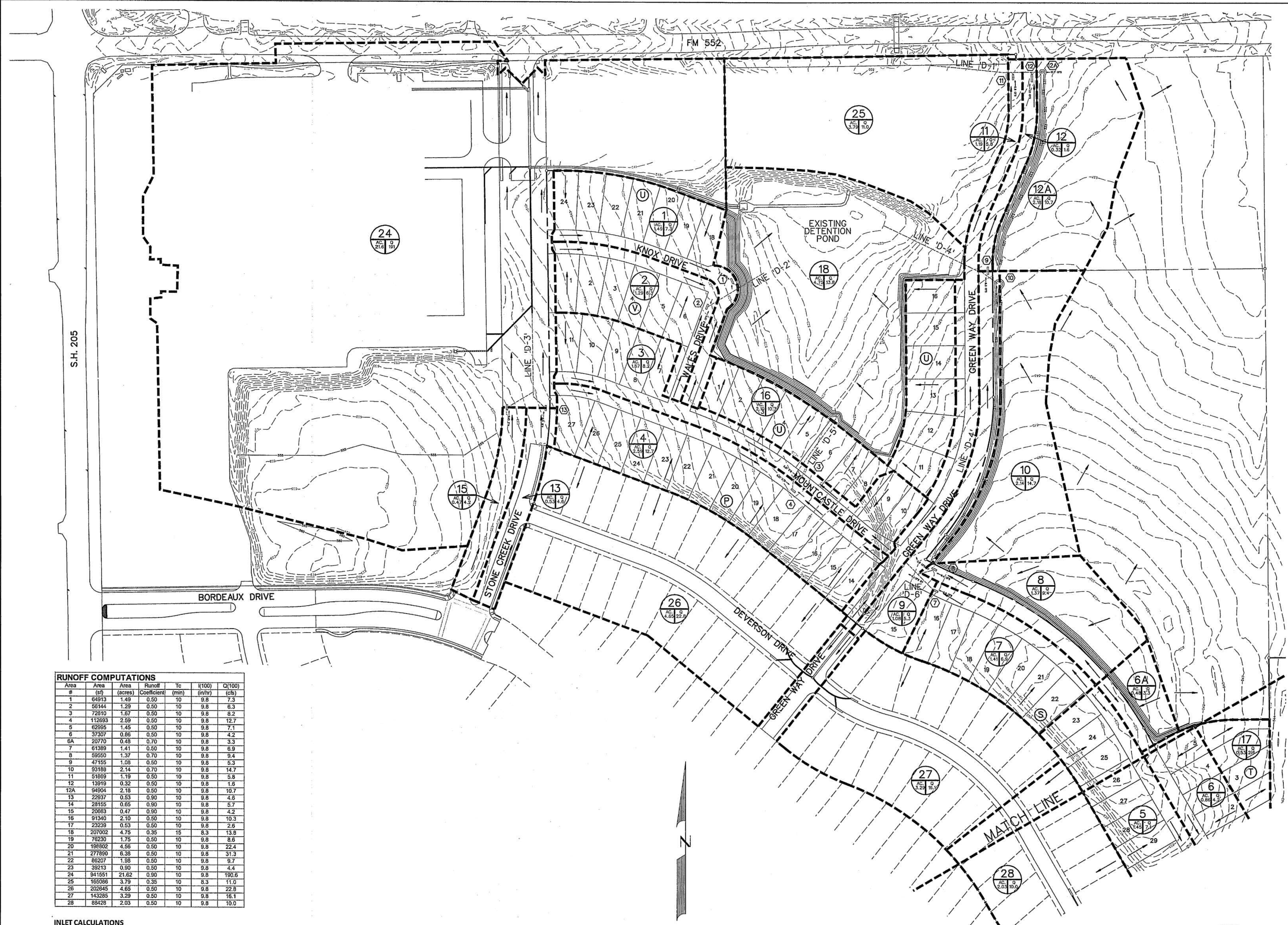
- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- DRAINAGE AREA NO.

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

**DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VI
ROCKWALL, TEXAS**

**DRAINAGE AREA MAP
SHEET 1 OF 2**

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER	DATE	SCALE	4 of 26
13068	MAY 2014	1"=100'	

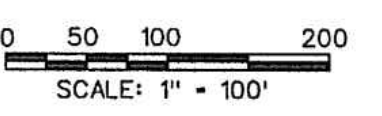


RUNOFF COMPUTATIONS

#	Area (ft ²)	Area (acres)	Coefficient	Yc (min)	Tc (hr)	Q(100) (cfs)
1	64913	1.49	0.50	10	9.8	7.3
2	66144	1.29	0.50	10	9.8	6.3
3	72910	1.67	0.50	10	9.8	8.2
4	112693	2.59	0.50	10	9.8	12.7
5	62955	1.45	0.50	10	9.8	7.1
6	37257	0.86	0.50	10	9.8	4.2
6A	20710	0.48	0.70	10	9.8	3.3
7	61389	1.41	0.50	10	9.8	6.9
8	89550	1.37	0.70	10	9.8	9.4
9	47155	1.09	0.50	10	9.8	5.3
10	93189	2.14	0.70	10	9.8	14.7
11	61869	1.19	0.50	10	9.8	5.8
12	12919	0.32	0.50	10	9.8	1.6
12A	94904	2.18	0.50	10	9.8	10.7
13	22937	0.53	0.90	10	9.8	4.8
14	28155	0.65	0.90	10	9.8	5.7
15	20553	0.47	0.90	10	9.8	4.2
16	91940	2.10	0.50	10	9.8	10.3
17	22239	0.53	0.50	10	9.8	3.7
18	207002	4.75	0.35	15	8.3	13.8
19	78230	1.75	0.50	10	9.8	6.6
20	166002	4.56	0.60	10	9.8	22.4
21	277890	6.38	0.50	10	9.8	31.3
22	86207	1.98	0.50	10	9.8	9.7
23	36213	0.90	0.50	10	9.8	4.4
24	941551	21.62	0.90	10	9.8	190.6
25	165908	3.79	0.35	10	8.3	11.0
26	102945	4.65	0.50	10	9.8	22.8
27	143285	3.29	0.50	10	9.8	16.1
28	88428	2.03	0.50	10	9.8	10.0

INLET CALCULATIONS

Inlet #	Location	Station	Design Storm Frequency (yr)	Design Storm Conc. (mg/l)	Time of Conc. (min)	Intensity (in/hr)	Runoff Coeff	Area (acres)	Q (cfs)	Carry-Over from Upstream (cfs)	Gutter Flow (cfs)	Gutter Capacity (cfs)	Gutter Slope (ft/ft)	Crown (ft)	Type	Length (ft)	Selected Inlet	Carry-Over to Downstream Inlet (cfs)	Inlet Capacity (cfs)
1	Wales/Knox	100	10	9.8	0.50	1.49	7.3	0.0	7.3	0.0	7.3	10.6	Low PI	6" ppi	10	STD.	0.0	21.0	
2	Wales	2+44.50	100	10	9.8	0.50	1.29	6.3	0.0	6.3	12.3	10.6	Low PI	6" ppi	10	STD.	0.0	21.0	
3	Mountcastle	6+24.10	100	10	9.8	0.50	1.67	8.2	0.0	8.2	17.7	10.6	Low PI	6" ppi	10	STD.	0.0	21.0	
4	Mountcastle	6+24.10	100	10	9.8	0.50	2.59	12.7	0.0	12.7	17.7	10.6	Low PI	6" ppi	10	STD.	0.0	21.0	
5	Mountcastle	18+21.45	100	10	9.8	0.50	1.45	7.1	0.0	7.1	16.5	1.65%	6" ppi	15	STD.	0.0	11.5		
6	Mountcastle	18+21.45	100	10	9.8	0.50	1.09	5.3	0.0	5.3	21.7	2.36%	6" ppi	15	STD.	0.0	10.3		
7	Mountcastle	9+51.44	100	10	9.8	0.50	1.41	6.9	0.0	6.9	19.3	1.20%	6" ppi	10	STD.	0.1	6.8		
8	Mountcastle	9+51.44	100	10	9.8	0.70	1.37	6.4	0.0	6.4	21.7	2.07%	6" ppi	10	STD.	2.9	6.5		
9	Greenway	16+73.00	100	10	9.8	0.50	1.08	5.3	0.0	5.3	19.3	1.20%	6" ppi	10	STD.	0.0	10.0		
10	Greenway	16+73.00	100	10	9.8	0.70	2.14	14.7	0.0	14.7	14.7	N/A	-	4	WVE	0.0	20.5		
11	Greenway	21+00.00	100	10	9.8	0.50	1.19	5.8	0.0	5.8	10.6	1.63%	6" ppi	10	STD.	0.0	6.3		
12	Greenway	20+75.00	100	10	9.8	0.50	0.52	1.8	0.0	1.8	10.6	0.88%	6" ppi	10	STD.	0.0	8.3		
12A	Greenway	21+10.00	100	10	9.8	0.50	1.18	10.7	0.0	10.7	10.7	N/A	-	4	WVE	0.0	20.5		
13	Stone Creek	4+82.55	100	10	9.8	0.50	0.53	4.8	0.0	4.8	27.0	1.66%	14" x 8"	10	STD.	0.0	6.6		
14	Featherstone	3+07.30	100	10	9.8	0.50	0.65	5.7	0.0	5.7	21.9	2.10%	6" ppi	10	STD.	0.0	6.2		
15	Stone Creek	4+82.55	100	10	9.8	0.50	0.47	4.2	0.0	4.2	27.0	1.66%	14" x 8"	10	STD.	0.0	6.6		



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

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



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FOR INFORMATION ONLY

NOTE: THE CITY OF ROCKWALL CONSTRUCTION STANDARDS APPLY, WHETHER INDICATED ON THESE PLANS OR NOT.

Plotted: Jun 1, 2020, 1:51 PM by user: john - Saved: 01/17/2020 by user: john
R:\ROCKWALL\STONE CREEK ELEM\SET\STONE CREEK ELEM ENG - RECORD SET.dwg