PROPOSED & FUTURE STORM WATER RUNOFF CALCULATIONS

DRAINAGE AREA DESIGNATION	AREA (ACRES)	RUNOFF COEFFICIENT C	TIME OF CONCENTRATION t_c (MIN)	RAINFALL INTENSITY I_{100} (IN/HR)	RUNOFF Q_{100} (CFS)	COMMENTS
A	1.23	0.90	10	8.74	9.68	DRAINS TO EX 6 GRATE
B	1.29	0.90	10	8.74	10.15	DRAINS TO EX 6 GRATE
C	0.43	0.90	10	8.74	3.41	DRAINS TO EX 4 GRATE INLET
D	0.82	0.90	10	8.74	6.47	DRAINS TO EX 5' CURB INLET
E	0.93	0.90	10	8.74	7.30	DRAINS TO EX 5' CURB INLET
F	0.71	0.90	10	8.74	5.60	DRAINS TO ROOF DRAIN
G	0.72	0.90	10	8.74	5.67	DRAINS TO ROOF DRAIN
H	0.10	0.90	10	8.74	0.76	DRAINS TO EX 2' X 2' GRATE INLET
I	0.16	0.90	10	8.74	1.22	DRAINS TO EX 2' X 2' GRATE INLET
J	0.96	0.90	10	8.74	7.58	DRAINS TO ROOF DRAIN
K	0.07	0.90	10	8.74	0.57	DRAINS TO ROOF DRAIN
L	0.07	0.90	10	8.74	0.57	DRAINS TO ROOF DRAIN
M	0.60	0.90	10	8.74	4.71	DRAINS TO EX LANDSCAPE DRAINS
N	0.32	0.90	10	8.74	2.52	DRAINS TO EX 2' x 2' GRATE INLET
O	0.30	0.90	10	8.74	2.32	DRAINS TO EX 2' x 2' GRATE INLET
P	0.37	0.90	10	8.74	2.90	DRAINS TO EX 2.5' x 2.5' GRATE INLET
Q	0.72	0.90	10	8.74	5.66	DRAINS TO PROP 5' CURB INLET
R	0.28	0.90	10	8.74	2.20	DRAINS TO PROP 5' CURB INLET
S	0.50	0.90	10	8.74	3.93	DRAINS TO PROP 5' COMBINATION INLET
T	0.28	0.90	10	8.74	2.17	DRAINS TO PROP 5' COMBINATION INLET
U	0.96	0.90	10	8.74	7.55	DRAINS TO ROOF DRAIN
V	0.16	0.90	10	8.74	1.26	DRAINS TO PROP 2' X 2' GRATE INLET
W	0.69	0.90	10	8.74	5.42	DRAINS TO PROP 5' COMBINATION INLET
X	0.73	0.90	10	8.74	5.74	DRAINS TO ROOF DRAIN
Y	0.69	0.90	10	8.74	5.43	DRAINS TO ROOF DRAIN
Z	0.66	0.90	10	8.74	5.23	DRAINS TO PROP 5' COMBINATION INLET
AA	0.22	0.90	10	8.74	1.73	DRAINS TO PROP 2' X 2' GRATE INLET
AB	0.15	0.90	10	8.74	1.18	DRAINS TO PROP 5' CURB INLET
AC	0.11	0.90	10	8.74	0.87	DRAINS TO PROP 5' CURB INLET
AD	0.11	0.90	10	8.74	0.87	DRAINS TO PROP 5' CURB INLET
AE	0.16	0.90	10	8.74	1.26	DRAINS TO PROP 5' CURB INLET
AF	0.15	0.90	10	8.74	1.18	DRAINS TO PROP 5' CURB INLET
AG*	0.34	0.63	10	8.74	1.86	DETENTION POND
OS1	0.60	0.40	15	7.52	1.80	DRAINS TO INWOOD
OS2	0.22	0.90	10	8.74	1.72	DRAINS TO EX 5' CURB INLET ON LANDMARK
OS3	0.81	0.90	10	8.74	6.37	DRAINS TO EX 4' x 4' WYE INLET
OS4	0.31	0.40	15	7.52	0.94	DRAINS TO RR RIGHT OF WAY
OS5	0.03	0.90	10	8.74	0.23	DRAINS TO DALLAS PARKWAY
OS6	0.11	0.90	10	8.74	0.87	DRAINS TO DALLAS PARKWAY

*C IS A WEIGHTED VALUE. 0.21 ACRES AT C=0.4 (OPEN SPACE) AND 0.13 ACRES (DETENTION POND) AT C=1.0 (WATER BODY).

NOTE:
- RUNOFF COEFFICIENTS AND RAINFALL INTENSITY VALUES WERE USED FROM EX. DRAINAGE AREA MAP PROVIDED BY B.D.D. DATED 09/08/00

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Client/Project
CAWLEY PARTNERS

CAWLEY - FOURTEEN555 PHASE 2
14555 DALLAS PARKWAY
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

Title
DRAINAGE AREA CALCULATIONS

Permit-Seal
PRELIMINARY
FOR REVIEW ONLY
Not for Construction or Permit Purposes
Stantec
Engineer JOSHUA A. MILLSAP
P.E. No. 100118 Date 02/12/2019

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RR	JM	JM	19.02.12
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No. C4.2
Revision ----
Sheet C4.2

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