RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A PARTNERSHIP AGREEMENT WITH CITY CHURCH OF CHATTANOOGA.

_____

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, That it hereby authorizes the Mayor to execute a Partnership Agreement with City Church of Chattanooga.

ADOPTED: _____, 2014

/mem

PARTNERSHIP AGREEMENT

The City of Chattanooga and City Church of Chattanooga agree to enter into a Partnership Agreement relative to stormwater detention storage. The McCutcheon detention facility was built by the City to provide detention volume for upstream properties.

The purpose of this partnership agreement is to provide City Church of Chattanooga with a portion of this detention volume for their use to meet certain Stormwater detention regulations. The cost is $0.47 per cubic foot resulting in a payment by City Church to the City of Chattanooga Water Quality fund in an amount of $14,453.91. Supporting documentation is attached hereto s Exhibit A.

The City and City Church of Chattanooga are in agreement to the above terms as it pertains to the project and by the execution of signatures below enter into a Partnership Agreement.

PARTNERSHIP AGREEMENT

The terms as described above are agreeable to City Church of Chattanooga and as the Pastor, I hereby agree to the terms as described.

_____ _____

Name Date
City Church of Chattanooga

The terms as described above are agreeable to the City of Chattanooga, and as the Administrator of Public Works, I hereby agree to the terms as described.

_____ _____

Donald L. Norris Date
Public Works Administrator

Engineering Division
(423)643-6190
Fax: (423)643-6008

Water Quality Program
(423)643-5877
FAX: (423)643-5862

Technical Information Center
(423)643-6033
FAX: (423)643-6027

ATTACHMENT "C" Continued

Stormwater Calculation Summary Sheet

PROJECT NAME CITY CHURCH

ADDRESS 7122 Lee Highway Chattanooga, TN 37421

DATE March 13, 2014

WATER QUALITY UNIT WQGST

HYDROLOGIC METHOD USED :

- ☐ Rational
- ☐ Modified Rational
- ☒ SCS

(Check One)

TOTAL AREA (Acreage) 1.37

PRE-CONSTRUCTION CONDITIONS

Pervious Area, Ac	0.289	C or CN Factor	61
Impervious Area, Ac	0.167	C or CN Factor	98
Time of Concentration	16.7	Method for Tc	Hydrocad

POST-CONSTRUCTION CONDITIONS

Pervious Area, Ac	0	C or CN Factor	
Impervious Area, Ac	1.37	C or CN Factor	98
Time of Concentration	8.75'	Method for Tc	Hydrocad

RUNOFF RESULTS

Storm Event	Pre-Development Peak Flowrate, cfs	Post-Development Peak Flowrate, cfs	Routed (detention) Flowrate, cfs
2 year	0.79	6.79	6.00
5 year	1.18	8.22	7.04
10 year	1.41	9.01	7.60
25 year	1.83	10.43	8.60
100 year	2.35	12.17	9.82

DETENTION VOLUME REQUIRED, cubic feet 24,567

MULTI-STAGE OUTLET REQUIRED ☐ Yes ☒ No (check)

FIRST FLUSH VOLUME, cubic feet 3,730

WATER QUALITY TREATMENT METHOD Water Quality Unit

PROFESSIONAL ENGINEER CERTIFICATION

NAME Alvin R. Cook

SIGNATURE Alvin R Cook

TN PE LICENSE 5405

Engineer's Seal Here

ALVIN R. COOK
REGISTERED ENGINEER
5405
STATE OF TENNESSEE
3-13-2014

ATTACHMENT "C" Continued

Stormwater Calculation Summary Sheet

PROJECT NAME City Church

ADDRESS 7122 Lee Highway
Chattanooga, TN 37421

DATE March 13, 2014

WATER QUALITY UNIT EAST

HYDROLOGIC METHOD USED :

- ☐ Rational
- ☐ Modified Rational
- ☒ SCS

(Check One)

TOTAL AREA (Acreage) 0.844 AC

PRE-CONSTRUCTION CONDITIONS

Pervious Area, Ac	0.644	C or CN Factor	80
Impervious Area, Ac	0	C or CN Factor	—
Time of Concentration	19.7 min	Method for Tc	Hydrocad

POST-CONSTRUCTION CONDITIONS

Pervious Area, Ac	0.637	C or CN Factor	80
Impervious Area, Ac	0.217	C or CN Factor	98
Time of Concentration	6.6 min	Method for Tc	Hydrocad

RUNOFF RESULTS

Storm Event	Pre-Development Peak Flowrate, cfs	Post-Development Peak Flowrate, cfs	Routed (detention) Flowrate, cfs
2 year	1.13	3.33	2.20
5 year	1.60	4.36	2.76
10 year	1.88	5.00	3.20
25 year	2.37	6.15	3.28
100 year	2.99	7.57	4.60

DETENTION VOLUME REQUIRED, cubic feet 6186

MULTI-STAGE OUTLET REQUIRED ☐ Yes ☒ No (check)

FIRST FLUSH VOLUME, cubic feet 591

WATER QUALITY TREATMENT METHOD Water Quality unit

PROFESSIONAL ENGINEER CERTIFICATION

NAME Alvin R. Cook

SIGNATURE Alvin R Cook

TN PE LICENSE 5405

Engineer's Seal Here

ALVIN R. COOK
REGISTERED ENGINEER
AGRICULTURE
5405
3-13-2014
STATE OF TENNESSEE