



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL DATE: FEBRUARY 19, 2019

FROM: LIBRARY WARDS: ALL

SUBJECT: ORDINANCE AMENDING CHAPTER 3.30 OF THE RIVERSIDE MUNICIPAL CODE TO ADD ADDITIONAL CATEGORY TO THE SCHEDULE OF REGULATIONS, PRODUCTS AND SERVICES AND RESOLUTION AMENDING CITY'S FEES AND CHARGES SCHEDULE PROVIDING FOR A 3D PRINTING FEE OF \$0.10 PER GRAM OF PLASTIC/FILAMENT

ISSUES:

Adopt an ordinance amending Chapter 3.30 Section 3.30.030XV of the Riverside Municipal Code to add an additional category to the Schedule of Regulations, Products and Services and a resolution amending the City's Fees and Charges Schedule providing for a 3D printing fee of \$0.10 per gram of plastic/filament.

RECOMMENDATIONS:

That the City Council:

1. Adopt an ordinance amending Chapter 3.30 Section 3.30.030XV of the Riverside Municipal Code to add an additional category to the Schedule of Regulations, Products and Services titled "XV. Leisure and Cultural – Library:"; and
2. Adopt a resolution amending the City's Fees and Charges Schedule providing for a 3D printing fee of \$0.10 per gram of plastic/filament.

BACKGROUND:

On October 26, 2015, the Board of Library Trustees, unanimously approved acceptance of a donation in the amount of \$6,500 from five (5) Riverside Rotary Clubs. This donation was directed toward the purchase of a 3D printer, which would be located in the newly established Makerspace at the Main Library. Library Board member Evans, and club member of Riverside East Rotary, led the effort in securing donations from the five (5) clubs. The library purchased its first 3D printer from Makerbot, a prominent vendor in the 3D printer marketplace.

On January 25, 2016, the Board of Library Trustees approved the attached Library 3D Printer Policy. Included in the policy were nominal fees that customers would be charged for the production and materials to print 3D objects. The following fees were approved by the Board of Library Trustees and pending approval from City Council.

1. \$1.00 flat fee to set a print job. (This fee was originally approved by the Board of Library Trustees, however, after future discussions it was determined by the Board of Library Trustees to exclude this fee from the Master Schedule of Fees).
2. \$0.10 fee for each 1 gram of plastic used (rounded up to the whole next whole gram), including a raft and any supports if required or requested.

Further discussions were followed by the Board of Library Trustees at their regularly scheduled meetings on the fees.

On September 25, 2017, the Board of Library Trustees requested staff to provide further research relative to fees other libraries charged for 3D printing and the Riverside Public Library's costs for maintaining the 3D printer. A main concern from Board members was that the \$1.00 setup fee for small objects and the \$0.10 fee for each 1 gram of plastic/filament used for printing would limit use for those unable to afford this charge. Trustees suggested reducing the cost of filament to \$0.10 per gram and to take into consideration not charging the \$1.00 setup fee. The board requested staff return with cost comparisons for the items discussed. Staff returned to the Board on June 25, 2018, to present further detail on the 3D printing fees.

Staff determined that the majority of locations in neighboring library systems that provide 3D printing to the public only use 3D printing within a Science, Technology, Reading, Engineering, Art and Math (STREAM) related program.

On June 25, 2018, following discussion, the Board of Library Trustees, with five members present, discussed and determined to: 1) unanimously approve the \$0.10 fee per gram with no set up fee; 2) requested staff to create a specific internal account to track fees; 3) requested staff to return in June 2019 with an update; and 4) referred the item to City Council for consideration. Attached is the June 25, 2018, Board of Library Trustees report and minutes (Attachment 2 and 3). Upon City Council approval of the determined fee, the 3D printer policy will be revised to reflect the approved fee.

DISCUSSION:

While staff are sensitive to adding fees to services provided to the public, the cost of replacement filament is the primary expense item for 3D prints for the Riverside Public Library. During the timeframe of August 2017 through May 2018, the Library purchased filament and other required operating supplies amounting to \$3,055. Other costs include ongoing maintenance and replacement costs. Staff anticipates repairs for the 3D printers to cost approximately \$1,706 and ongoing maintenance costs to be approximately \$3,000 annually.

Print Hours at Riverside Public Library:

Since the purchase of the Makerbot 3D printer, the Riverside Public Library has purchased an additional eight (8) Dremel 3D printers. This ensures there is 3D print capability at every library location in the City. 3D printing is a significant activity for all library locations. Listed below is a table which includes the total number of 3D prints and hours of the prints between January 1, 2018 and January 10, 2019.

Total Number of 3D Prints (January 1, 2018 to January 10, 2019)		
Library Location	Total Prints	Estimated Total Hours
Orange Terrace Library	579	3,764
Main Library	481	3,127
SPC. Jesus S. Duran Eastside Library	318	2,067
Arlington	259	1,684
La Sierra Library	237	1,541
Marcy Library	226	1,469
Arlanza Library	197	1,281
SSgt. Salvador J. Lara Casa Blanca Library	122	793
Total	2,419	15,726

The Budget Office performed a fee study based on the proposed fee of \$0.10 per gram to determine the cost recovery rate. The cost study included estimated annual revenue for a projected 2,500 print jobs per year at 13 grams per job (about the size required to print a keychain), estimated printer maintenance and supplies expense based on historical experience, and the related costs of Library staff assistance to 3D printing customers, electricity usage, and printer depreciation. Based on the study performed, the estimated cost recovery rate for the proposed fee is 18%. Fees would begin 60 days from approval by City Council.

FISCAL IMPACT:

The fiscal impact of this report is the revenue rate of \$0.10 fee per gram of plastic/filament. Currently, the costs to operate the 3D printer for the public is approximately \$4,000 to \$6,000 annually. Collection of the approved fee will be used to offset the cost of repairs and maintenance as described herein. These expenses are paid from donations in the Library Gift Fund account 5145000-450201. If the \$0.10 fee per gram fee is approved, funds received will be recorded in a new General Fund revenue account specifically created for the new 3D Printing Fee.

Prepared by: Erin Christmas, Library Director
 Certified as to
 availability of funds: Edward Enriquez, Chief Financial Officer/City Treasurer
 Approved by: Lea Deesing, Assistant City Manager
 Approved as to form: Gary G. Geuss, City Attorney

Attachments:

1. Draft Ordinance
2. Draft Resolution
3. Draft 3D Printer Policy
4. Board of Library Trustees Report June 25, 2018
5. Board of Library Trustees Minutes June 25, 2018