AGENDA ITEM 3-n

☐ CONSENT ITEM FOR MEETING OF: June 19, 2017

☐ NEW BUSINESS FROM: Director of Engineering

☐ OLD BUSINESS SIGNATURE: Derek Wainscott

☐ EXHIBITS: Infrastructure Program Annual Rpt. - Program Years 11 and 12*

*Due to size of document, not routinely distributed. Available for viewing in Executive Office at 200 Canal Street.

SUBJECT: Review of Developer Contributions to Utility Infrastructure (Program Years Eleven and Twelve)

SUMMARY:

Per U.C. Resolution No. 5-07 and the Addendum to the Developer’s Agreement, which established developer contributions to infrastructure costs of the U.C., an annual review of said developer contributions to utility infrastructure is required. Upon determination of any necessary cost revisions, those revisions are to be presented during a public meeting of the U.C.

In 2016 the Commission approved consultants to perform updates to the system studies, presented in February 2017 (Water Resources) and in March 2017 (Electric). Those studies projected the 20-year growth in the system, classified infrastructure projects* and allocation (*projects needed to serve growth), and provided new estimates of cost for those projects to be applied to the Infrastructure Program, provide the Years 11 and 12 cost updates.

The estimated construction costs for the Infrastructure Projects increased between Years 10 and 11 / 12.

RECOMMENDED ACTION:

A motion approving the annual cost revisions for the developer contributions to the utility infrastructure program pursuant to the U.C. Resolution and annual review requirement, and approval for U.C. staff to make needed corrections to said costs upon presentation to the Commission of the reasoning for the requested corrections and cost changes.

Kay Mitchell

NOTE: ALL AGENDA ITEMS MUST BE IN THE GENERAL MANAGER’S OFFICE BY NOON MONDAY TWO WEEKS PRIOR TO THE REGULAR MONDAY COMMISSION MEETING.
7. COSTS PER CONNECTION PER ZONE
7. Costs per connection per zone - Electric System Improvements

<table>
<thead>
<tr>
<th>zone</th>
<th>2016 Report Section</th>
<th>Project Name</th>
<th>Project Completed</th>
<th>Total Project Cost</th>
<th>%* Growth</th>
<th>Infrastructure Cost</th>
<th>zone growth (estimated)</th>
<th>zone total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5.3.1</td>
<td>Smyrna Substation Add Transformer Capacity (Option 2)</td>
<td>no</td>
<td>$3,883,400.00</td>
<td>75%</td>
<td>$2,912,550.00</td>
<td>$700</td>
<td>$417.19</td>
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<tr>
<td></td>
<td>5.4.4</td>
<td>Smyrna Line 12 Split and Serve from New Transformer</td>
<td>no</td>
<td>$276,500.00</td>
<td>100%</td>
<td>$276,500.00</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>5.5.4</td>
<td>Smyrna Line 11 Rebuild Along SR-44 West of I-95</td>
<td>no</td>
<td>$46,700.00</td>
<td>50%</td>
<td>$23,350.00</td>
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<td></td>
<td></td>
<td>Zone 1 Subtotal</td>
<td>$3,212,400.00</td>
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<tr>
<td>2</td>
<td>5.5.1</td>
<td>Airport Line 17 Rebuild with 652 AAAC</td>
<td>no</td>
<td>$641,000.00</td>
<td>50%</td>
<td>$320,500.00</td>
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<tr>
<td></td>
<td>5.5.3</td>
<td>Airport Line 15 and Smyrna Line 12 Rebuild Along Pioneer Trail</td>
<td>no</td>
<td>$174,400.00</td>
<td>50%</td>
<td>$87,200.00</td>
<td></td>
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<tr>
<td></td>
<td>5.6.4</td>
<td>Airport Line 15 Rebuild Along Wayne Avenue</td>
<td>no</td>
<td>$156,200.00</td>
<td>50%</td>
<td>$78,100.00</td>
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<td>Zone 2 Subtotal</td>
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<tr>
<td>3</td>
<td>5.5.2</td>
<td>Field Street Line 26 Rebuild Along Findley and Old Mission</td>
<td>no</td>
<td>$472,400.00</td>
<td>50%</td>
<td>$236,200.00</td>
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<tr>
<td></td>
<td>5.5.5</td>
<td>Field Street Line 7 Rebuild Along Canal and Milford</td>
<td>no</td>
<td>$162,500.00</td>
<td>50%</td>
<td>$81,250.00</td>
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<td></td>
<td>5.6.1</td>
<td>Field Street Line 7 Rebuild Along Mary Avenue</td>
<td>no</td>
<td>$137,300.00</td>
<td>50%</td>
<td>$68,650.00</td>
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<tr>
<td></td>
<td>5.6.2</td>
<td>Field Street Line 4 Rebuild Along Julia Street</td>
<td>no</td>
<td>$122,900.00</td>
<td>50%</td>
<td>$61,450.00</td>
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<tr>
<td></td>
<td>5.6.3</td>
<td>Field Street Line 4 Replace UG Along Dixie Highway</td>
<td>no</td>
<td>$485,500.00</td>
<td>50%</td>
<td>$242,750.00</td>
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<td>Zone 3 Subtotal</td>
<td>$690,300.00</td>
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<td></td>
<td></td>
<td></td>
<td>Total Electric Infrastructure Project Costs</td>
<td>$4,388,500.00</td>
</tr>
</tbody>
</table>

*Project which are a percentage CIP and Infrastructure, % shown, responiblity of Development
## UTILITIES COMMISSION,
CITY OF NEW SMYRNA BEACH, FL
INFRASTRUCTURE PROGRAM - YEAR 11

### 10.1.2-7 W-215 2.0 MGD Reverse Osmosis (R/O) Treatment Facility
- **Project Completed**: no
- **Project Cost**: $6,210,000.00
- **% Growth**: 50%
- **Zone Growth (Estimated)**: $1,413.4
- **Zone Total**: $650.58
- **Total Per Zone**: $650.58

### 10.2-4 W-40 GWTP Filter Upgrade (17%, See QLHA Cost Estimating Yr 10 7-9-15)
- **Project Completed**: yes
- **Project Cost**: $269,265.10
- **Zone Growth (Estimated)**: $650.58

### 10.1-24 W-28 Central Wellfield 85%
- **Project Completed**: yes
- **Project Cost**: $1,523,759.74

### 10.1.2-1 W-48 Northwest Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $1,731,392.00
- **% Growth**: 100%

### 10.1.2-2 W-102 Southwest Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $1,180,200.00
- **% Growth**: 100%

### 10.1.2-4 W-115 South Central Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $1,342,600.00
- **% Growth**: 100%

### 10.1.2-5 W-213 Southwest Water Main Interconnect
- **Project Completed**: yes
- **Project Cost**: $1,117,700.00
- **% Growth**: 100%

### 10.1.2-6 W-214 Coastal Woods Water Main Extension (CW Agreement-part)
- **Project Completed**: yes
- **Project Cost**: $1,022,726.36
- **% Growth**: 100%

### 10.1.2-3 W-114 Pioneer Trail Water Main Improvements (CW Agreement-part)
- **Project Completed**: yes
- **Project Cost**: $1,417,900.00
- **% Growth**: 100%

### 10.1.2-5 W-213 Southwest Water Main Interconnect
- **Project Completed**: yes
- **Project Cost**: $1,117,700.00
- **% Growth**: 100%

### 10.1.2-6 W-214 Coastal Woods Water Main Extension (CW Agreement)
- **Project Completed**: yes
- **Project Cost**: $1,022,726.36
- **% Growth**: 100%

### 10.1.2-7 W-215 2.0 MGD Reverse Osmosis (R/O) Treatment Facility
- **Project Completed**: yes
- **Project Cost**: $596,764.00
- **Zone Growth (Estimated)**: $650.58

### 10.1.2-2 W-102 Southwest Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $946,900.00

### 10.1.2-4 W-115 South Central Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $942,875.00

### 10.1.2-5 W-213 Southwest Water Main Interconnect
- **Project Completed**: yes
- **Project Cost**: $492,875.00

### 10.1.2-3 W-114 Pioneer Trail Water Main Improvements (CW Agreement-part)
- **Project Completed**: yes
- **Project Cost**: $97,336.50

### 10.1.2-5 W-213 Southwest Water Main Interconnect
- **Project Completed**: yes
- **Project Cost**: $973,450.00
- **% Growth**: 50%

### 10.1.2-6 W-214 Coastal Woods Water Main Extension (CW Agreement)
- **Project Completed**: yes
- **Project Cost**: $922,083.29
- **% Growth**: 50%

### 10.1.2-7 W-215 2.0 MGD Reverse Osmosis (R/O) Treatment Facility
- **Project Completed**: yes
- **Project Cost**: $42,324.19

### 10.1.2-2 W-102 Southwest Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $28,908.00

### 10.1.2-4 W-115 South Central Water Main Extension
- **Project Completed**: yes
- **Project Cost**: $28,908.00

### 10.1.2-5 W-213 Southwest Water Main Interconnect
- **Project Completed**: yes
- **Project Cost**: $28,908.00

### Zone 2 and 3 shared projects
- **W-117 Western Storage Tank and Pump Station**
  - **Project Completed**: no
  - **Project Cost**: $2,193,750.00
  - **% Growth**: 75%
- **W-103 SR 44 16" and 20" Water Main JJ-MOU**
  - **Project Completed**: yes
  - **Project Cost**: $946,900.00
- **W-113/103 JJ-MOU Miscellaneous Tasks and Engineering**
  - **Project Completed**: yes
  - **Project Cost**: $27,155.00
- **W-113 East SR 44 24" Water Main JJ-MOU**
  - **Project Completed**: yes
  - **Project Cost**: $985,750.00

### Zone 2
- **W-110 Pioneer Trail 12" Water Main / Sugar Mill 8" Water Main**
  - **Project Completed**: yes
  - **Project Cost**: $42,944.00
- **W-114(part) Pioneer Trail 12" WM JJ-MOU**
  - **Project Completed**: yes
  - **Project Cost**: $146,050.00
- **W-104 O'Reilly road 16" Water Main (Airport Road) (upsise to 16")JJ-MOU**
  - **Project Completed**: yes
  - **Project Cost**: $97,336.50
- **W-103 SR 44 16" and 20" Water Main JJ-MOU**
  - **Project Completed**: yes
  - **Project Cost**: $473,450.00
- **W-113 East SR 44 24" Water Main JJ-MOU**
  - **Project Completed**: yes
  - **Project Cost**: $492,875.00

### Zone 3
- **W-102 Southwest Water Main Extension**
  - **Project Completed**: yes
  - **Project Cost**: $1,180,200.00
  - **% Growth**: 100%
- **W-115 South Central Water Main Extension**
  - **Project Completed**: yes
  - **Project Cost**: $1,342,600.00
  - **% Growth**: 100%
- **W-117 Western Storage Tank (Half)**
  - **Project Completed**: yes
  - **Project Cost**: $1,096,875.00
  - **% Growth**: 50%

### Zone 4
- **W-217 Williams Road Water Main Improvements**
  - **Project Completed**: no
  - **Project Cost**: $188,850.00
  - **% Growth**: 50%

### Total
- **Project Completed**: yes
- **Project Cost**: $21,633,643.86
- **% Growth**: 50%

*Project which are a percentage CIP and Infrastructure, % shown, responsibility of Development*
### 7. Costs per connection per zone - Wastewater System Improvements

<table>
<thead>
<tr>
<th>zone</th>
<th>2016 Report Section</th>
<th>Project Name</th>
<th>Project Completed</th>
<th>Project Cost</th>
<th>%* Growth</th>
<th>zone growth (estimated)</th>
<th>zone total</th>
<th>total per zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10.2.2-5</td>
<td>WW-214 WRF Expansion Project</td>
<td>no</td>
<td>$8,640,000.00</td>
<td>50%</td>
<td>14134 $</td>
<td>611.29</td>
<td>611.29</td>
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<td></td>
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<td></td>
<td></td>
<td>this amount is paid by all connections</td>
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<tr>
<td>2</td>
<td>10.2.2-1</td>
<td>WW-67 Northwest Force Main (Sans Lift Station)</td>
<td>no</td>
<td>$1,253,900.00</td>
<td>100%</td>
<td>700 $</td>
<td>1,791.29</td>
<td>2,402.58</td>
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<td>3</td>
<td>10.2.2-2</td>
<td>WW-68 Southwest Regional Lift Station and Force Main</td>
<td>no</td>
<td>$1,855,900.00</td>
<td>100%</td>
<td>4000 $</td>
<td>463.98</td>
<td>1,075.27</td>
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<tr>
<td>4</td>
<td>10.2.2-3</td>
<td>WW-69 Coastal Woods Lift Station and Force Main (CW Agreement)</td>
<td>yes</td>
<td>$718,975.77</td>
<td>100%</td>
<td>1500 $</td>
<td>479.32</td>
<td>1,090.61</td>
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<tr>
<td>5</td>
<td>10.2.2-4</td>
<td>WW-70 Williams Road Lift Station and Force Main</td>
<td>no</td>
<td>$819,500.00</td>
<td>100%</td>
<td>500 $</td>
<td>1,639.00</td>
<td>2,250.29</td>
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<tr>
<td>6</td>
<td>N/A</td>
<td>Off-Site 6’ Forcemain NSB SE Interchange</td>
<td>yes</td>
<td>$309,775.60</td>
<td>100%</td>
<td>1000 $</td>
<td>309.78</td>
<td>921.07</td>
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<td><strong>Total</strong></td>
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<td>$13,598,051.37</td>
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</tbody>
</table>
There are no system wide improvements (e.g. plant upgrades) proposed for reclaimed at this time, therefore only zone 2, with projects that grid and improve the entire zone will be charged an infrastructure fee for reclaimed.

<table>
<thead>
<tr>
<th>zone</th>
<th>2016 Report Section</th>
<th>Project Name</th>
<th>Project Completed</th>
<th>Project Cost</th>
<th>% Growth</th>
<th>zone growth (estimated)</th>
<th>zone total</th>
<th>total per zone</th>
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<tbody>
<tr>
<td>1</td>
<td>10.3.2-1</td>
<td>R-29 Southwest Reuse Extension</td>
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<td>$1,225,200.00</td>
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<td>10.3.2-2</td>
<td>R-33 Pioneer Trail RWM Extension</td>
<td>no</td>
<td>$1,027,700.00</td>
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<td>10.3.2-3</td>
<td>R-34 SR 44 16&quot; RWM Extension</td>
<td>no</td>
<td>$464,200.00</td>
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<td>10.3.2-4</td>
<td>R-35 Southwest Reclaimed Water Loop</td>
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<td>$1,391,100.00</td>
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<td>R-34</td>
<td>Airport Road Material Upsize 12&quot; - 16&quot; JJ-MOU</td>
<td>yes</td>
<td>$97,200.00</td>
<td>100%</td>
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<td>R-33</td>
<td>8&quot; reclaimed water pipeline Pioneer Trail JJ-MOU</td>
<td>yes</td>
<td>$87,950.00</td>
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<td>R-34</td>
<td>S.R. 44 16&quot; Reuse Main (Part 1&amp;2)</td>
<td>yes</td>
<td>$846,520.00</td>
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Total Reclaimed Infrastructure Project Costs: $5,139,870.00
8. EXHIBITS
EXHIBIT - A

Legend
Overhead Conductor
Substation -
- Airport
- Field St
- Smyrna

Underground Conductor
Substation -
- Airport
- Field St
- Smyrna

UCNSB Electric Service Boundary
Smyrna - Zone 1
Airport - Zone 2
Field St - Zone 3

34.71 SQ MI
16.47 SQ MI
10.01 SQ MI

Date: 5/19/2017
Time: 11:38:44 AM

Disclaimer: Utilities Commission, City of New Smyrna Beach makes no warranty, explicit or implied, regarding the use of this information. Use at your own risk.

Document Path: Z:\Projects\Reports\Infrastructure Fee Program\Future Projects Maps\Exhibits\Substation Service Areas\Substation Service Areas02.mxd
Disclaimer: Utilities Commission, City of New Smyrna Beach makes no warranty, explicit or implied, regarding the use of this information. Use at your own risk.

Date: 5/15/2017
Time: 8:40:16 AM

WASTE WATER ZONES
UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH
Disclaimer: Utilities Commission, City of New Smyrna Beach makes no warranty, explicit or implied, regarding the use of this information. Use at your own risk.

Date: 6/5/2017
Time: 2:08:16 PM

RECLAIMED WATER ZONES
UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH