Action Items

2. **Meeting Summary.** The February 8, 2018 [meeting summary](www.nctcog.org/ENVIR) is available online for review. Vote for approval.

3. **iSWM Task Order #2.** The Council will vote to approve the iSWM Subcommittee’s second task order for Halff Associates, Inc.
1. **Project Management and Meeting Attendance**

2. **Additional specifications and details for site development controls** – There is hesitation that developers and contractors in the region will not know how to install the site development controls. The schematics in the manual are a good start but many want the specifications and details to the level of the NCTCOG Construction Standard Details book.

3. **Provide additional detail and standards for proprietary devices** – Provide information on the specifications that should be considered for approval of a proprietary device and acceptable minimums that they should achieve.

4. **Add more detail on maintenance and inspection** – Still a need in the region for more information on maintenance costs and variability. Could research long standing applications and gather maintenance data/records/costs/methods. We could include some best practices in developing and tracking a cities maintenance and inspection program. Could also look outside of Texas for more long standing applications.

5. **Miscellaneous Technical Assistance:**
   - Assistance preparing educational materials including but not limited to: Pollution Prevention During Construction Class.
   - Coordinate with companion efforts when and if possible to help with efforts such as design parameters, as well as gather data on methods to set up a public/private partnership and other means for regional detention.
   - Assist NCTCOG staff in creating survey to learn about current activities and standards that are being applied. Also, help in creating a watershed based inventory of iSWM principals being utilized by communities in the NCTCOG region.
   - Attend up 3 Outreach Meetings and 1 technical assistance meeting.
FY 2018 Public Works – Work Program Update

1. Public Works Trainings

   *Still looking for instructors (Construction Contracts and Young Inspector Training)

2. Public Works Construction Standards – Standard Drawings Update

   *Prioritized 6 iSWM Schematics to add/update

   *Will send out survey to iSWM and Stormwater Committees for additional input

   *Next Meeting: June 4, 2018, 10 AM, Regional Forum Room, NCTCOG Offices
integrated Stormwater Management (iSWM) Updates

1. Halff Associates have completed Task Order #1.
   • Downstream Assessment: summary of findings provided in memorandum.
   • integrated Site Design Practices Criteria – sample ordinance language for incorporation of Site Design Practices into City Codes provided in a categorized matrix.
   • iSWM Workshop: Lessons Learned & Rules of Thumb for Engineers.
     This workshop addressed rules of thumb and lessons learned for applying iSWM engineering principles. Common points of interest for site design including H&H, water quality, streambank protection, erosion control, and downstream assessment. This workshop was hosted April 27th. Presentation available online.

2. The cities of Stephenville and Irving have applied for and are undergoing review for iSWM Certification.

3. New website to be revealed at Public Works Roundup!
19th Annual Public Works Roundup!

Date: May 23rd
Location: Grapevine Convention Center
Registration: 190 individuals
Sponsorship: $7,750; 21 sponsors

Tables (11 total)
- Terracon Consultants, Inc.
- Walter P Moore
- Tetra Tech
- Teague Nail and Perkins, Inc.
- Construction EcoServices
- Dynatest North America, Inc.
- Baird, Hampton, and Brown, Inc.
- SWCA Environmental Consultants
- Bowman Consulting Group
- Criado and Associates
- TPWA (non-sponsor table)
# Tentative Draft Agenda

## Morning Presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 – 9:00 a.m.</td>
<td>Registration, Networking, Vendor Tables Light Breakfast</td>
<td></td>
</tr>
<tr>
<td>9:00 – 9:10 a.m.</td>
<td>Welcome/Agenda Overview</td>
<td>Bryan Beck, City of Grapevine Public Works Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kate Powers, NCTCOG</td>
</tr>
<tr>
<td>9:10 – 9:30 a.m.</td>
<td>State Flood Assessment</td>
<td>Jessica Baker, Half Associates</td>
</tr>
<tr>
<td>9:30 – 10:00 a.m.</td>
<td>Urbanized Stream Corridor: Community Approach to Address Erosion</td>
<td>Romin Khavari, City of Grand Prairie &amp; Stephan Crawford, Half Associates</td>
</tr>
<tr>
<td>10:00 – 10:30 a.m.</td>
<td>Low Impact Development Construction &amp; Maintenance</td>
<td>Anthony Kendrick, Construction EcoServices</td>
</tr>
<tr>
<td>10:30 – 10:45 a.m.</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>10:45 – 11:45 a.m.</td>
<td>Master Drainage</td>
<td>Jennifer Dyke, Fort Worth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Steve Galloway, Kimley-Horn &amp; Matt DuBois, City of Frisco</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chad Marbut, City of Weatherford, &amp; Shannon Nave, Baird, Hampton, &amp; Brown</td>
</tr>
<tr>
<td>11:45 – 1:10 p.m.</td>
<td>Lunch, Networking, and Demonstration Visits</td>
<td></td>
</tr>
</tbody>
</table>

## Afternoon Presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:10 – 1:35 p.m.</td>
<td>Asphalt Pavement: Management &amp; Rehabilitation</td>
<td>Dr. Romanoschi and Dr. Ghassan Khankarli, University of Texas – Arlington, &amp; Manny Palacios, City of Weatherford</td>
</tr>
<tr>
<td>1:35 – 2:05 p.m.</td>
<td>Work Zone Traffic Control</td>
<td>John Stanley, City of Mesquite, &amp; Ryan Delmotta, Kimley-Horn</td>
</tr>
<tr>
<td>2:05 – 2:45 p.m.</td>
<td>S.B. 1004 Small Cell Implementation Panel</td>
<td>Representatives from Sprint, T-Mobile, Mobilitie, and Etenet</td>
</tr>
<tr>
<td>2:45 – 3:00 p.m.</td>
<td>Break, Vendor Tables Light Snack</td>
<td></td>
</tr>
<tr>
<td>3:00 – 3:25 p.m.</td>
<td>Construction Best Management Practices for Site Design</td>
<td>Shawn Poe, City of Rowlett</td>
</tr>
<tr>
<td>3:25 – 3:45 p.m.</td>
<td>iSWM Update</td>
<td>Derica Peters, NCTCOG &amp; Ben Pylant, Half Associates</td>
</tr>
<tr>
<td>3:45 – 4:00 p.m.</td>
<td>NCTCOG Public Works Program Update</td>
<td>Kate Powers, Environment and Development Planner, NCTCOG</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>Adjourn</td>
<td></td>
</tr>
</tbody>
</table>
Public Works Council
Member Reappointments

NCTCOG is now accepting Member Designation/Reappointment Forms for the FY 2019 Regional Public Works Program!

Please complete and submit FY 2019 Reappointment Forms by Friday, July 20, 2018 to Crysta Guzman, cguzman@nctcog.org

<table>
<thead>
<tr>
<th>Current Member</th>
<th>City/County/Firm</th>
<th>Represents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacant</td>
<td>Vacant</td>
<td>East Subregion</td>
</tr>
<tr>
<td>Mike Brownlee</td>
<td>City of Corinth</td>
<td>Denton/Lake Cities; Council Vice Chair</td>
</tr>
<tr>
<td>Lyndon Cox</td>
<td>Terracon Consultants</td>
<td>Texas Council of Engineering Labs/Geoprofessionals Serving</td>
</tr>
<tr>
<td>John Crawford</td>
<td>City of Carrollton</td>
<td>&quot;</td>
</tr>
<tr>
<td>Mike Curtis</td>
<td>City of North Richland Hills</td>
<td>Mid-Cities Subregion</td>
</tr>
<tr>
<td>David Disheroon</td>
<td>Johnson County</td>
<td>Southwest Subregion</td>
</tr>
<tr>
<td>Fred Ehler</td>
<td>Denton County</td>
<td>&quot;</td>
</tr>
<tr>
<td>Alan Fourmentin</td>
<td>City of Celina</td>
<td>Northeast Subregion</td>
</tr>
<tr>
<td>Haytham Hassan</td>
<td>City of Dallas</td>
<td>&quot;</td>
</tr>
<tr>
<td>Mark Hines</td>
<td>Collin County</td>
<td>&quot;</td>
</tr>
<tr>
<td>David Hunter</td>
<td>City of Denton</td>
<td>&quot;</td>
</tr>
<tr>
<td>Jeffrey James</td>
<td>City of White Settlement</td>
<td>Northwest Tarrant Subregion</td>
</tr>
<tr>
<td>John Kasavich</td>
<td>City of Fort Worth</td>
<td>&quot;</td>
</tr>
<tr>
<td>Paul Knippel</td>
<td>City of Frisco</td>
<td>&quot;</td>
</tr>
<tr>
<td>Wayne Lee</td>
<td>City of Irving</td>
<td>&quot;</td>
</tr>
<tr>
<td>John Mears</td>
<td>Dallas County</td>
<td>&quot;</td>
</tr>
<tr>
<td>Manny Palacios Jr.</td>
<td>City of Weatherford</td>
<td>West Subregion; Council Chair</td>
</tr>
<tr>
<td>Walter &quot;Buzz&quot; Pishkur</td>
<td>City of Arlington</td>
<td>&quot;</td>
</tr>
<tr>
<td>Michael Polocek</td>
<td>City of Garland</td>
<td>&quot;</td>
</tr>
<tr>
<td>Paul Sparkman</td>
<td>City of McKinney</td>
<td>&quot;</td>
</tr>
<tr>
<td>Robert Woodbury</td>
<td>City of Cedar Hill</td>
<td>Southwest Dallas Subregion</td>
</tr>
</tbody>
</table>
FY 2019 Public Works – Work Program Update

Basic level support activities anticipated for continuation:

1. Continued support of general Public Works Activities
2. Ongoing support of Public Works Construction Standards Update
3. Continued support of the SPROW Subcommittee
4. Continued promotion of the iSWM Program
5. Hydrologic and Flooding Technical Assistance
6. Regional Training and Presentation Opportunities
Additional program activities for FY 2019:
A. Public Works Construction Standard Drawings Update
B. Public Works Training Site
C. Continuation of Cooperative Purchase of Public Works materials
D. Develop Partnerships with Regional Associations for exploration of training opportunities
E. Trainings for Contractors or Inspectors
F. Developing a Low Impact Development (LID) Competition.
Work Program
Survey Results
Work Program Survey Results

11 RESPONSES

- City of Mesquite (2)
- Dallas Water Utilities
- City of White Settlement
- BHB for Town of Edgecliff Village
- City of Grand Prairie
- City of Plano
- City of Fort Worth
- City of Irving
- Benbrook
- City of Ennis
Prioritize the following Public Works Program tasks.

1. Promotion and support of regional public works related training and presentation opportunities
   - Score: 4.82
2. Continued support of the Public Works Council
   - Score: 4.10
3. Continued support of hydrologic and flooding technical assistance
   - Score: 4.09
4. Continued support of the Sustainable Public Rights of Way (SPROW) Subcommittee
   - Score: 3.73
5. Continued support of the ISWM Subcommittee, activities, and programming
   - Score: 2.50
6. Continued support of standard drawing updates through subcommittee work
   - Score: 2.00

1 = Highest Priority; 6 = Lowest Priority
Prioritize the following Public Works Program tasks.

1. Coordinating and hosting the annual Public Works Roundup Event
   - 1 = Highest Priority; 6 = Lowest Priority
   - Score: 4.20

2. Coordinating and hosting SPROW Education Forums (e.g. 2017 SPROW Education Forum held Dec. 4, 2017)
   - Score: 1.90

3. Facilitating the Standard Drawings update and further development of the Public Works Construction Standards Fifth Edition
   - Score: 3.80

4. Coordinating Regional Public Works Trainings
   - Score: 3.36

5. Maintaining the Public Works Training Calendar/Site
   - Score: 3.27

6. Developing and promoting cooperative purchases (e.g. Pavement Analysis Service provided through NCTCOG SHARE)
   - Score: 3.36
Please let us know your interest in the following potential regional activities.

![Bar chart showing interest levels for different activities]
Which of the following activities would your community find valuable should resources and interest support their development?
Comments on the activities selected:

- **Water and Sewer training** is always welcome. For Technical how to use leak correlators or leak locators.

- The City of Dallas maintains a large set of drawing standards. Dallas will likely ignore any efforts by NCTCOG to create new drawing standards. I have enjoyed the various training NCTCOG puts out - both in a general and a very specific way. Some topics are more interesting than others, but generally, I have enjoyed various programs. **Topics on iSWM, Storm Water Management, Pavement Replacement, and aging utility infrastructure are of interest.**

- Continued training opportunities for Public Works; opportunities to learn about and participate in regional cooperative/funding opportunities

- **Asset management resources/training, capital improvement planning & financing**

- **Asset management**, effective management of/partnerships with private development for public infrastructure improvement (P3 stuff), addressing **urban flooding/erosion**, 

- **Construction inspection training**. Maintaining updated Public Works **Construction Specifications** and details. **Case studies** of construction methods that work well or don’t work well.

- **Best practices for road maintenance, water quality issues, and storm water**
Feedback

Please provide NCTCOG staff with any edits or additions to the FY 2019 Work Program for the Public Works Regional Program.

Comments by the Council will be integrated into the document, and the FY 2019 Work Plan will be presented for approval at the next PWC meeting August 16.
Water System Smart Meter Discussion – Survey Results

- City of Fort Worth
- Dallas Co. Park Cities MUD
- Corinth
- City of Grand Prairie
- City of Dallas - Dallas Water Utilities
- City of Duncanville
- DCFWSD 7 (Lantana)
- City of Haltom City
- City of Haslet
- City of Ennis
- City of White Settlement
- City of Denton
- City of Plano
- Upper Trinity Regional Water District
- City of Lancaster
- City of Blue Ridge
- Johnson County Special Utility District

17 RESPONSES
Are you considering updating/upgrading your water meter system?

Answered: 17  Skipped: 0

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>76.47%</td>
</tr>
<tr>
<td>No</td>
<td>23.53%</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>
If so, what purchasing mechanisms are you currently considering for upgrades?

- We are nearly complete with our AMI upgrades. We did an RFP in 2015.
- Currently exploring AMI initiatives for water meter infrastructure.
- Wireless Reads
- We are in the process of upgrading to the AMI system indicated in Question #4 below.
- Open bid
- Bid RFP
- Competitive proposal solicitation with an evaluation rating system.
- open bids
- AMI

Certificate of Obligation
- Currently under contract. advertised RFQ, quals based selection, SWIFT funded. considered ESPC, determined that mechanism to be too costly
- Actually, we are not installing Smart meters but our 2 customers are - Highland Park and University Park. We funded this project for them - over $3M. They took bids.
- We are working with RG3 to install smart water meters. We have Incode for our utility software.
- RFP's. Working with a consultant: SL-Serco. (same as FTW is using)
Are you currently using manual meters, advanced metering infrastructure (AMI), or automatic meter reading (AMR)?

![Chart showing survey results]
If you are using manual meters, do your manual meters have AMR/AMI compatible registers?

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, my manual meters have AMR/AMI compatible registers</td>
<td>33.33%</td>
</tr>
<tr>
<td>No, my manual meters do not have AMR/AMI compatible registers</td>
<td>66.67%</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>
Are you paying a contractor to read your manual meters, or do you use in-house meter readers?

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paying a contractor</td>
<td>6.25%</td>
</tr>
<tr>
<td>In-house meter readers</td>
<td>81.25%</td>
</tr>
<tr>
<td>I am not using manual meters</td>
<td>12.50%</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>

Answered: 16  Skipped: 1
Would you be interested in purchasing water system smart meters through a regional NCTCOG cooperative services procurement offering?

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, I would be interested in this cooperative service</td>
<td>64.71%</td>
</tr>
<tr>
<td>No, I would not be interested in this cooperative service</td>
<td>35.29%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>17</td>
</tr>
</tbody>
</table>
If you are interested, would you prefer the pricing for equipment only or pricing to include installation?

Answered: 13  Skipped: 4

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>I prefer the pricing for equipment only</td>
<td>23.08%</td>
</tr>
<tr>
<td>I prefer the pricing to include installation</td>
<td>76.92%</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>
If you are interested, would you prefer procurement offerings include warranties?

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>No, I do not prefer procurement offerings come with a warranty.</td>
<td>13.33%</td>
</tr>
<tr>
<td>Yes, I prefer procurement offerings come with a warranty. (Please leave suggested warranty length below.)</td>
<td>86.67%</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>
What length of warranty would you prefer?

- 1 year: 8.3%
- 2 years: 16.7%
- 5 years: 16.7%
- 10 years: 33.3%
- 15 years: 16.7%
- 20 years: 8.3%
Please list any preferred non-standard functionality needs or specifics that you like to see included in our Request for Proposals (to differentiate our offering from standard BuyBoard style purchasing options).

- Not sure how to answer many of these questions. Our AMI meter installations (contracted installers) will be done by the end of May. Our network - including remediation - will be done by June. Our Customer Portal will be launched in July.
- **Biggest concerns relate to battery life and manufacturer warranties, life expectancies and failure rate data.**
- Purchase and install of retro fit registers only vs complete meters
- Nothing outside standard.
- **I am concerned about the ability of our software to provide the billing capability** so that customers are able to access the data on either an hourly basis or 15 minute increments.
- **Ability to order equipment with different meter reading resolutions** (different cities bill differently). integrations with billing will require some collaboration for meter swap fields
- FYI: JCSUD has gone through the procurement phase via soliciting proposals. We are negotiating contract with Ferguson (supplier) /Mueller (equip)
Feedback

Please provide NCTCOG staff with any comments or questions you may have regarding NCTCOG’s SHARE cooperative services smart water meter initiative.
Additional Program Updates
Cooperative Technical Partnership Program

**FY16 Projects**

Kickoff meetings for flood risk identification projects in Cleburne and Tarrant County were held in February, and projects are underway.

East Fork Trinity Discovery is underway. Pre-Discovery webinars for East Fork watershed communities are tentatively scheduled for late June.

**FY17 Projects**

Task Order for FY17 projects was executed with Halff Associates earlier this month.

Kickoff meetings will be scheduled for this summer.

- Flood Risk Identification projects in Weatherford (Town Creek) and Benbrook (Stream CF-5).

**FY 18**

Final Business Plan submitted to FEMA March 30th. Awaiting feedback from FEMA before the grant application process begins.

- Flood Risk Identification project on Marys Creek in Parker County
- Flood Risk Identification project on Wichita Chase Creek in Flower Mound
Next CRS Users Group meeting will be

May 22\textsuperscript{nd}, from 12 p.m. to 2 p.m.

Deidra Mares, the ISO specialist for the area, will be the speaker. She will discuss the ISO review process for current CRS communities and the benefits of the program and expectations for non-CRS communities.
Public Works Emergency Response Team (PWERT) Update

Contact Information:
Manny Palacios Jr., Chair
mpalacios@weatherfordtx.gov

Mistie Gardner, Vice Chair
mistie.gardner@cor.gov

Jessica Mason, NCTCOG Rep
JMason@nctcog.org

Next PWERT Meeting:
June 14, 2018, 9:30-11:00 am
NCTCOG, Metroplex Conference Room
North Central Branch
AMERICAN PUBLIC WORKS ASSOCIATION

JAY VONAHSN
NCT BRANCH VICE PRESIDENT /
TPWA STATE CHAPTER TREASURER
MAY 10, 2018
Next North Central Branch General Meeting and Luncheon

June 12, 2018
Botanical Gardens – Fort Worth, TX

Adelaide Polk Fuller Garden

Source: http://www.fwbg.org/gardens/#/fuller-garden/
## Upcoming TPWA NCT Branch Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Venue</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 11, 2018</td>
<td>Bass Fishing Tournament</td>
<td>Lake Fork (SE of Greenville, TX)</td>
</tr>
<tr>
<td>May 20 – 26, 2018</td>
<td>National Public Works Week</td>
<td>Nationwide</td>
</tr>
<tr>
<td>June 12, 2018</td>
<td>General Meeting</td>
<td>Fort Worth</td>
</tr>
<tr>
<td>August 21, 2018</td>
<td>General Meeting</td>
<td>Carrollton</td>
</tr>
<tr>
<td>October 1, 2018</td>
<td>Golf Tournament</td>
<td>Prairie Lakes Grand Prairie, TX</td>
</tr>
<tr>
<td>November 15, 2018</td>
<td>One Day Seminar</td>
<td>Richardson</td>
</tr>
<tr>
<td>December 11, 2018</td>
<td>Annual Meeting</td>
<td>TBD</td>
</tr>
</tbody>
</table>
The Public Works Institute of Texas (PWITX) continues an award winning tradition of providing members of the Texas Chapter of the American Public Works Association (APWA) with the highest quality in educational and professional development opportunities.

http://www.pwitx.org/
SAVE THE DATE

2018 TPWA Annual Conference

Fort Worth, Texas
at the Convention Center
June 27, 2018 - June 29, 2018
Flood Safe Texas – Collaborative and Modern Approaches Workshop

Wednesday, June 27, 2018
1:00 PM – 5:00 PM
2018 TPWA Annual Conference in Fort Worth, TX

Topics:
• NOAA Atlas 14, impact and integration of new rainfall estimates
• US Army Corps of Engineers automated flood event inundation maps
• NCTCOG’s efforts in developing a consolidated regional early flood warning system in the DFW area
Future Agenda Items & Roundtable Discussion

- Upcoming Congestion Management Process (CMP) Update (Thomas Bamonte, NCTCOG)

Now, It's YOUR Turn...
Next PWC Meeting

The next Public Works Roundup meeting is scheduled for:
Thursday, **August 16**, 2018, at 9:30 a.m.
NCTCOG’s Pitstick Executive Board Room
Public Works Staff

TAMARA COOK, AICP
SENIOR PROGRAM MANAGER
TCOOK@NCTCOG.ORG
(817) 695-9221

MIA BROWN, CFM
CRS, CTP
MBBROWN@NCTCOG.ORG
(817) 695-9227

KATE POWERS
PUBLIC WORKS, TxCDBG
KPOWERS@NCTCOG.ORG
(817) 695-9213

EDITH MARVIN, PE, CFM
DIRECTOR
EMARVIN@NCTCOG.ORG
(817) 695-9211

DERICA PETERS, CFM
ISWM, DEVELOPMENT EXCELLENCE
DPETERS@NCTCOG.ORG
(817) 695-9217

KATHLEEN MYERS
PUBLIC WORKS, SPROW
KMYERS@NCTCOG.ORG
(817) 695-9107

WWW.NCTCOG.ORG/ENVIR