

Islesboro Municipal Broadband

# Contractor Briefing

June 1, 2017 at ICC

# 100% Successful Installs

- Over 675 Signed Up
- *Readiness* is the Subscriber's Responsibility
- Island Contractors = *Readiness* Army
- Documents & Handouts
  - This Slide Deck
  - Current Signup List & Known Issues
  - *Getting Ready* Document w/Conduit Specs
  - At Town Office & Online

# Who Does What?

- WaveGuide
  - Construction Phase Installs & Scheduling
  - Resolve Service Drop Design Issues
  - Available to Subscribers to Bid On Conduit Work
- Town Office
  - Tina's Master List of Who is Signed Up (Tina is the Expert)
    - Is It a Data Issue or an Issue On the Ground?
  - Subscriber Agreements, Payments,...
  - List of Contractors Briefed
  - Starting Point for Escalation Process to Asses/Resolve Issues
  - Documents
- Sewall – Construction Oversight
  - Readiness Verification and Issues Resolution
- Island Contractors
  - Army to Help Prepare & Verify Subscriber Readiness
  - Conduit Work & Other Premise Preparations

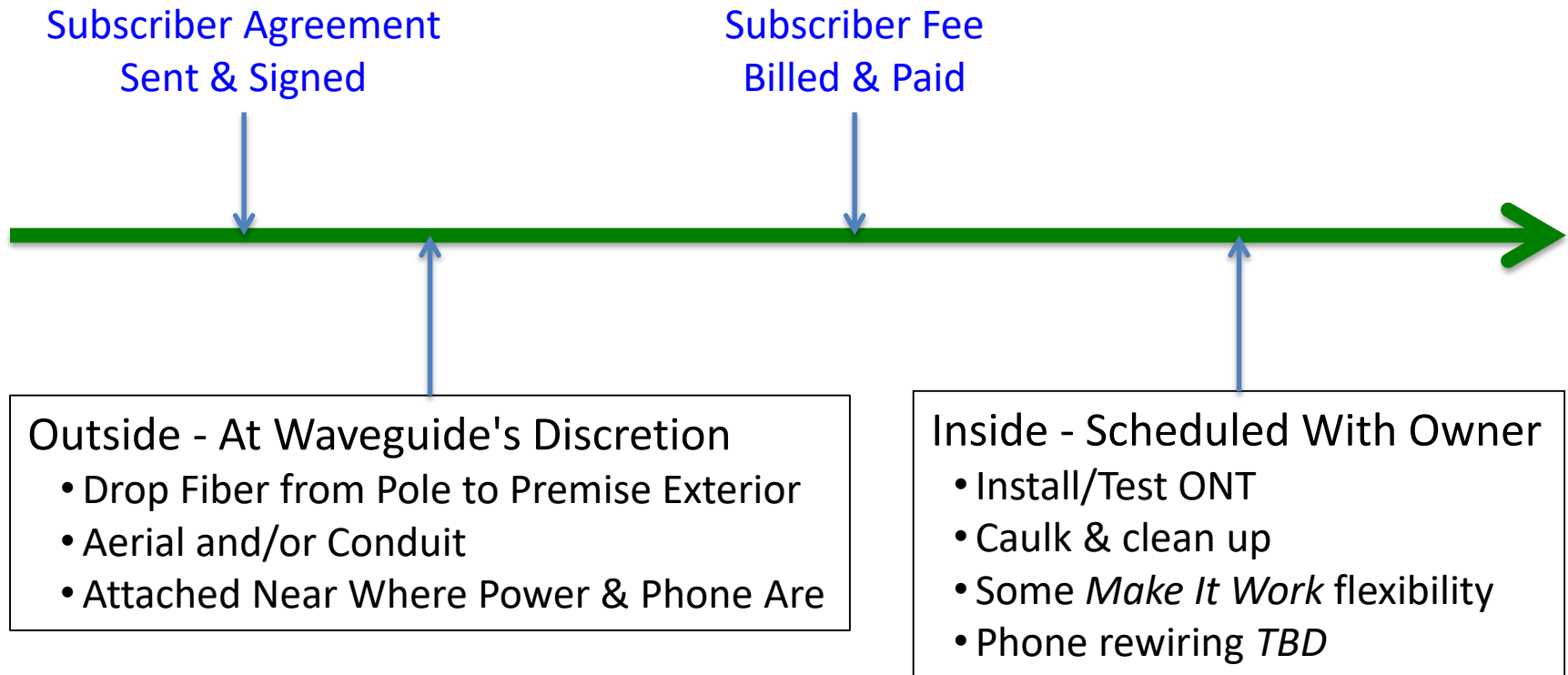
# Contractors

- Close to the Subscriber & Know the Properties
- Are Any Conduits Good to Go?
- Will the Typical ONT Installation Work?
- Status, Exceptions & Issues to Tina!
  - [IMB@townofislesboro.com](mailto:IMB@townofislesboro.com)
  - Property Info, Diagrams, Notes, Issues,...

# *Construction Phase* Installation Policy

- Be Ready When Waveguide Is
  - Two Tries Max & Then You Will Pay for Install
- Town Pays to Install One Subscriber per Property
  - Working Fiber + *Optical Network Terminal* (ONT)
  - Additional Drops - Subscriber Pays Time & Materials
    - Estimates from Town Office & Prepaid - Subscriber Fee is per ONT
  - No Other Interior Wiring, Configuration, Digging,...
- Signed Subscriber/Owner's Agreement
  - Property Access, Fee Schedule, Who Does What,...
- GWI Optional Phone Plan
  - Residential & Business Plans, Multiple Lines but One Bill / ONT

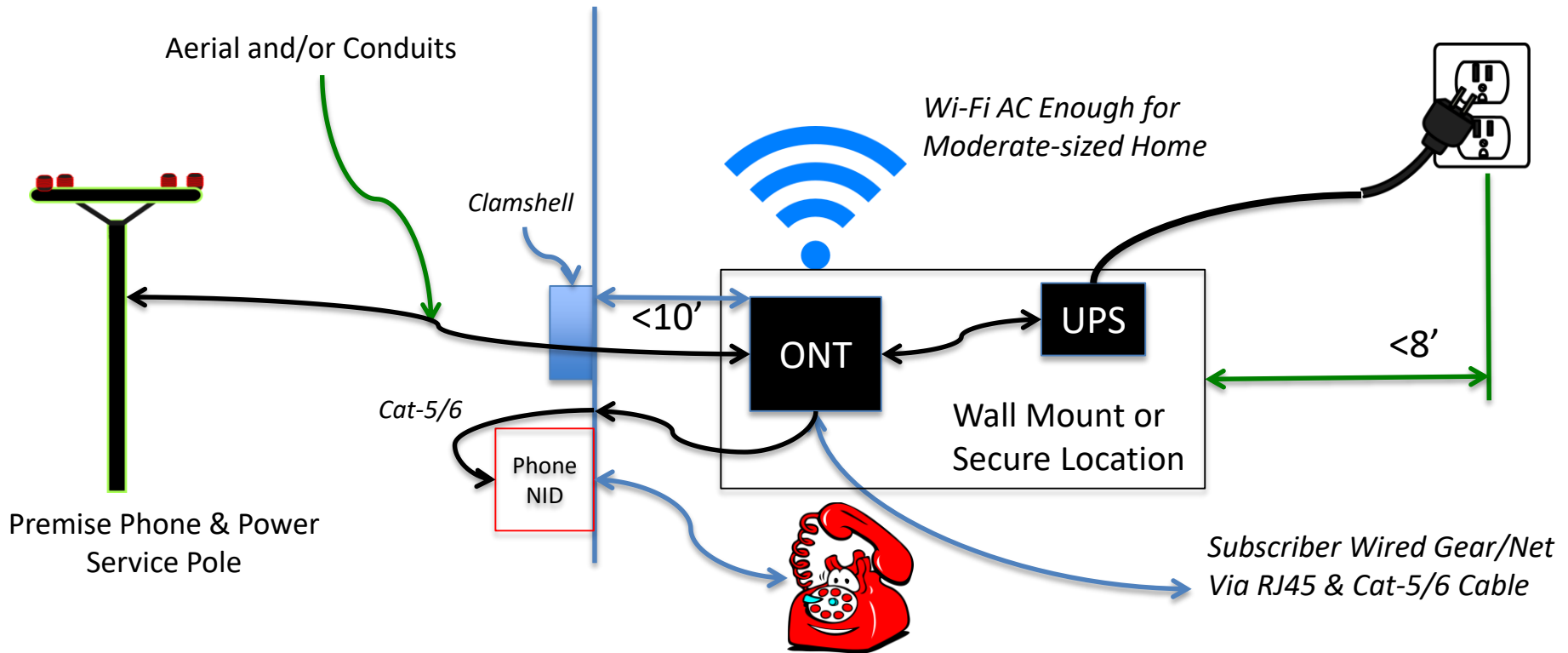
# Simple Installation Timeline



# ONT Considerations

	ONT w/ Wi-Fi	Weatherproof ONT no Wi-Fi
Which Do I Need?	One-Box Solution Typical Home Wi-Fi	Premises With Existing Ethernet, Wi-Fis, etc.
Description	Black Plastic Box (11x8x2)	Weatherproof Clamshell
Location	Interior Living Space < 10'+/- From Fiber Drop Clamshell on Exterior Nearby Phone NID	Exterior, Stub Post, Basement, Utility Closet, Interior Fiber Ends in Clamshell Nearby Phone Wiring/NID
Mounting	Secure Location or Wall Mount (24"x24" plywood ideal)	Secure Wall Mount (24"x24" plywood ideal)
Features	Wi-Fi 802.11AC 4x1g Ethernet/RJ45 2xPhone Lines/RJ11	2x1g Ethernet/RJ45 2xPhone Lines/RJ11
Uninterruptable Power Supply (UPS)	Interior Living Space Secured adjacent to ONT 110v Receptacle <8'+/-	Secure, Interior, Weatherproof Wall Mount Near ONT but no More than 50'+/- (16-guage) 110v Receptacle <8'+/-

# Living Space ONT Schematic w/ Wi-Fi

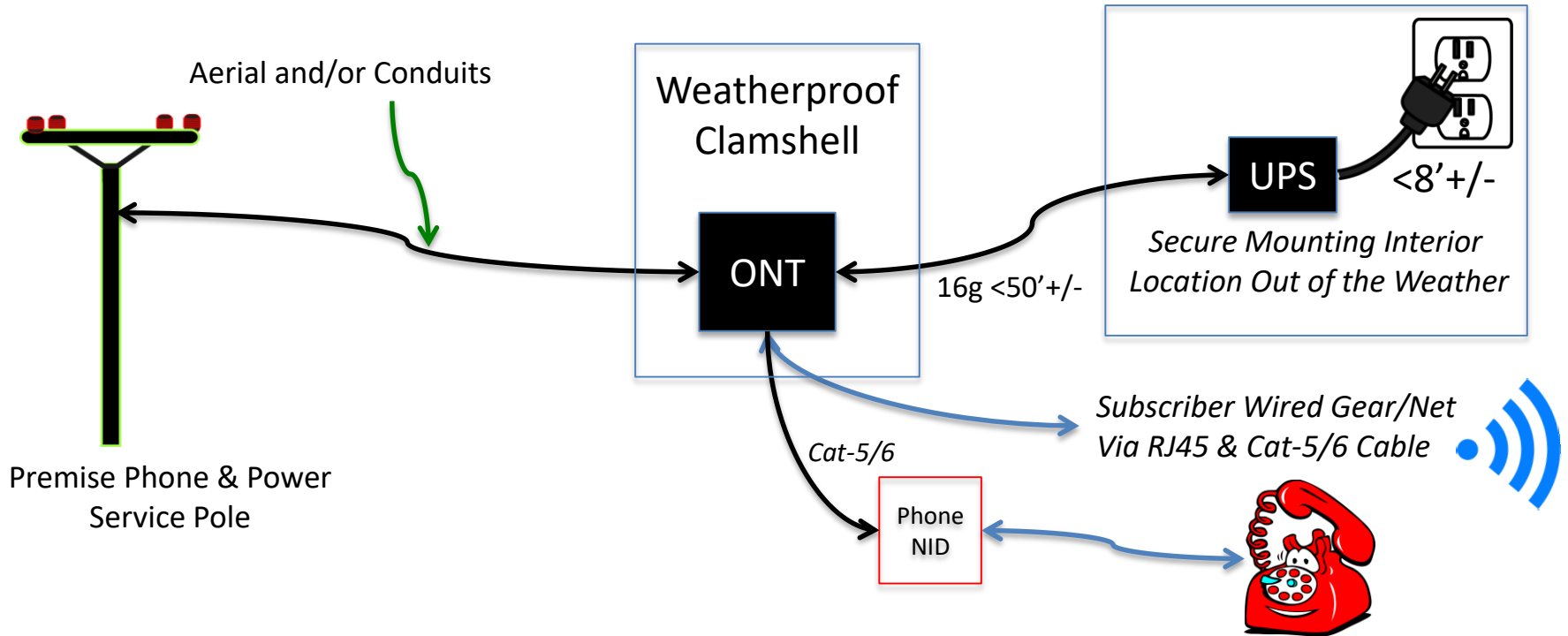


## Living Space ONT Notes:

- Exceptions i.e., Wall Penetration  $>10'$  from Interior Location -> Email Tina re Details
- Ideal secure mounting is 24"x24"x1/2" plywood, but wallboard OK.



# Weatherproof ONT - No Wi-Fi



## Weatherproof ONT Notes...

- Stub Pedestal, Premise Wall, Utility Closet, Basement, Living Space, ...
  - Ideal secure mounting is 24"x24"x1/2" plywood
- UPS must be inside out of the weather & secured as close as possible to ONT
- Network Wiring From ONT In is Subscriber Responsibility
- Email Tina re Issues/Exceptions

# Typical Exterior



# Typical Exterior - Clamshell



# No Wi-Fi ONT Lives in Clamshell



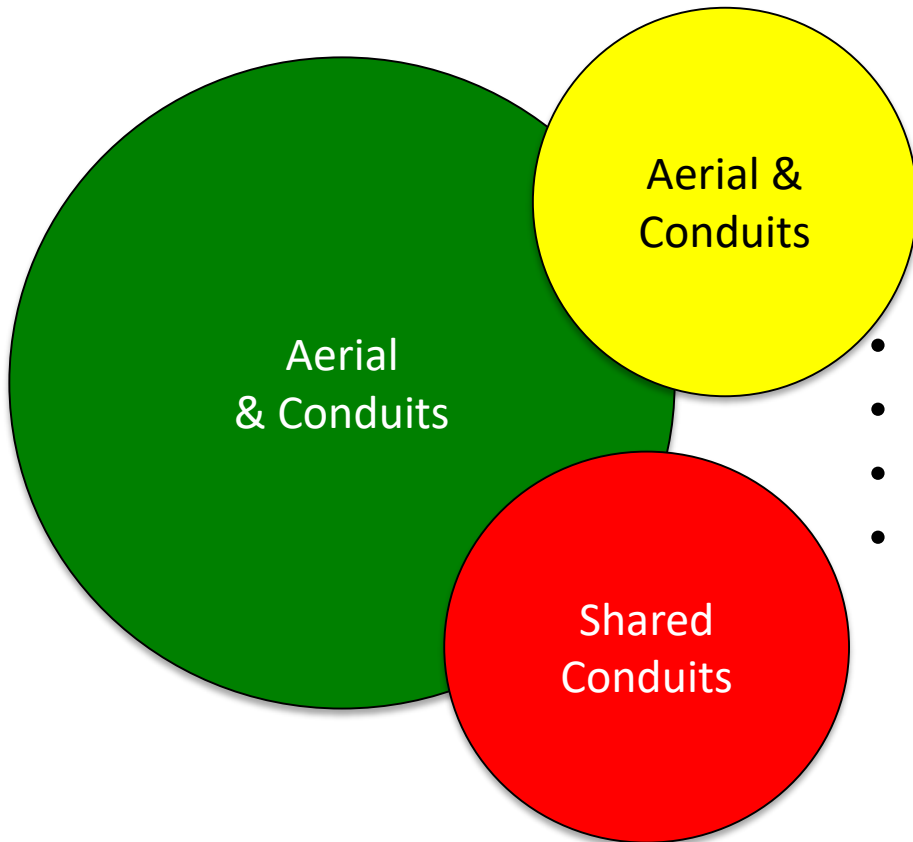
# UPS Must Be Out of the Weather and Near 110v



# Living Space ONT with Wi-Fi



# Installation List & Known Issues



- **Tina's Signup List = Truth**
- Green = 537- Good to Go
- Yellow = 91- Questions
- Red = 48 - Need Waveguide Review or Design For Readiness

# Current Issue Areas - Reds

Not a complete list... Check Website

Hold off on Conduit Work Until Resolved

- Shipyard Pt
- Hermits Pt from Dunn in
- Aldrich Rd
- Smith's Landing
- Gooseberry Pt
- Sprague's Cove
- Beach-Bayshore-Lee



# Conduits Specs *Pole to Premise*

- Co-Exist in Existing Conduits OK If...
  - 1”+/- dia. open with pull line
  - No Fairpoint pedestals are in the run
- New Conduits are Needed If...
  - A Fairpoint pedestal is somewhere in the run
  - There is no open conduit or aerial
- IMB Conduit Spec Document



# New Conduit Summary

- Call DigSafe!
- Begin at Premise's Power/Phone Service Pole
  - New/Existing Communications Pole Riser (Standoff?)
- 2" Sched 40 or Sched 80
  - Capped, Marked, Pull Line, Diagram/Mapped
  - Break into Runs of 500ft +/-
    - Channell #SPH920C1B1L00 or equiv. pedestals
- End at Premise...
  - On Exterior Wall, Stub Post, Basement, Utility Closet,
  - Ideally Near 11v Power, Phone NID & Ethernet Wiring

# Channell Pedestal



Easy to find in Winter  
May or may not have gear in it

Channell #SPH920C1B1L00 or equiv. pedestals

# Premise Is Ready If...

- Subscriber/Owner Agreement Signed & Fees Paid
- Wi-Fi ONT or Weatherproof No Wi-Fi ONT?
- All Conduits are Ready
- Mounting Location for ONT & Power Supply is Ready
  - Secure Mounting Possible in Interior Space, Utility Closet/Basement,...
  - Near Phone NID Interface box
  - 110v Receptacle Nearby per Spec

# 100% Successful Installations

- Contractors = Readiness Army
  - Close to the Subscribers and Know the Properties
  - Take Note of Any Issues...
- Email [IMB@townofislesboro.com](mailto:IMB@townofislesboro.com)
  - Share Notes & Diagrams
    - Address, Owner, Lot-Number,...
    - ONT Type & Location
    - Aerial and/or Conduits (Map, Documentation...)
  - Issues Needing Help from IMB, Waveguide or Sewall
  - Tina Shares All Notes with Waveguide & Sewall
- Documents on Town Website & At Office

# Questions