

City of Fort Bragg

416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Meeting Agenda

Special City Council

Monday, September 20, 2021	6:00 PM	Via Video Conference
	AGENCY	
	AND THE FORT BRAGG REDEVELOPMENT SUCCESSOR	
Т	HE FORT BRAGG MUNICIPAL IMPROVEMENT DISTRICT NO. 1	
1	HE FORT BRAGG CITY COUNCIL MEETS CONCURRENTLY AS	

Special Meeting

CALL TO ORDER

ROLL CALL

PLEASE TAKE NOTICE

Due to state and county health orders and to minimize the spread of COVID-19, City Councilmembers and staff will be participating in this meeting via video conference. The Governor's executive Orders N-25-20, N-29-20, and N-08-21 suspend certain requirements of the Brown Act and allow the meeting to be held virtually.

The meeting will be live-streamed on the City's website at https://city.fortbragg.com/ and on Channel 3. Public Comment regarding matters on the agenda may be made by joining the Zoom video conference and using the Raise Hand feature when the Mayor or Acting Mayor calls for public comment. Any written public comments received after agenda publication will be forwarded to the Councilmembers as soon as possible after receipt and will be available for inspection at City Hall, 416 N. Franklin Street, Fort Bragg, California. All comments will become a permanent part of the agenda packet on the day after the meeting or as soon thereafter as possible, except those written comments that are in an unrecognized file type or too large to be uploaded to the City's agenda software application. Public comments may be submitted to City Clerk June Lemos at jlemos@fortbragg.com.

ZOOM WEBINAR INVITATION

You are invited to a Zoom webinar. When: Sep 20, 2021 06:00 PM Pacific Time (US and Canada) Topic: Special City Council Meeting

Please click the link below to join the webinar: https://us06web.zoom.us/j/86021685931 Or Telephone: US: +1 720 707 2699 or +1 253 215 8782 (*6 mute/unmute; *9 raise hand) Webinar ID: 860 2168 5931

TO SPEAK DURING PUBLIC COMMENT PORTIONS OF THE AGENDA VIA ZOOM, PLEASE JOIN THE MEETING AND USE THE RAISE HAND FEATURE WHEN THE MAYOR OR ACTING MAYOR CALLS FOR PUBLIC COMMENT ON THE ITEM YOU WISH TO ADDRESS.

1. PUBLIC COMMENTS ON: (1) NON-AGENDA, (2) CONSENT CALENDAR & (3) CLOSED SESSION ITEMS

MANNER OF ADDRESSING THE CITY COUNCIL: All remarks and questions shall be addressed to the City Council; no discussion or action will be taken pursuant to the Brown Act. No person shall speak without being recognized by the Mayor or Acting Mayor. Public comments are restricted to three (3) minutes per speaker.

TIME ALLOTMENT FOR PUBLIC COMMENT ON NON-AGENDA ITEMS: Thirty (30) minutes shall be allotted to receiving public comments. If necessary, the Mayor or Acting Mayor may allot an additional 30 minutes to public comments after Conduct of Business to allow those who have not yet spoken to do so. Any citizen, after being recognized by the Mayor or Acting Mayor, may speak on any topic that may be a proper subject for discussion before the City Council for such period of time as the Mayor or Acting Mayor may determine is appropriate under the circumstances of the particular meeting, including number of persons wishing to speak or the complexity of a particular topic. Time limitations shall be set without regard to a speaker's point of view or the content of the speech, as long as the speaker's comments are not disruptive of the meeting.

BROWN ACT REQUIREMENTS: The Brown Act does not allow action or discussion on items not on the agenda (subject to narrow exceptions). This will limit the Council's response to questions and requests made during this comment period.

2. CONSENT CALENDAR

All items under the Consent Calendar will be acted upon in one motion unless a Councilmember requests that an individual item be taken up under Conduct of Business.

 2A. 21-488
 Adopt City Council Resolution Confirming the Continued Existence of a Local Emergency in the City of Fort Bragg

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Attachments: RESO Declaring Continuing Local Emergency

2B. <u>21-493</u> Approve Minutes of September 13, 2021

Attachments: CCM2021-09-13

3. CONDUCT OF BUSINESS

3A. <u>21-500</u> Receive Presentation from NHA Financial Advisors on the Proposed 2021 Taxable Lease Revenue Bonds (CalPERS UAL Restructuring & Site Acquisition)

Attachments: Fort Bragg 2021 COP - Sept 20 CC Update v9 Fort Bragg 2021 COP - Sept 20 CC Update v9

3B. <u>21-503</u> Update and Presentation on the Fort Bragg Digital Infrastructure Project

 Attachments:
 Fort Bragg Infrastructure Plan 8-29-21

 Fort Bragg Broadband Utility

 Public Comment 3B

4. CLOSED SESSION

4A. <u>21-501</u>CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION:
Initiation of litigation pursuant to paragraph (4) of subdivision (d) of

Government Code Section 54956.9: One (1) Case

4B. <u>21-502</u> CONFERENCE WITH LEGAL COUNSEL - EXISTING LITIGATION pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9; Name of Case: Kashiwada v. City of Fort Bragg

ADJOURNMENT

STATE OF CALIFORNIA))ss.

COUNTY OF MENDOCINO)

I declare, under penalty of perjury, that I am employed by the City of Fort Bragg and that I caused this agenda to be posted in the City Hall notice case on September 17, 2021.

June Lemos, CMC City Clerk

NOTICE TO THE PUBLIC:

DISTRIBUTION OF ADDITIONAL INFORMATION FOLLOWING AGENDA PACKET DISTRIBUTION:

• Materials related to an item on this Agenda submitted to the Council/District/Agency after distribution of the agenda packet are available for public inspection upon making reasonable arrangements with the City Clerk for viewing same during normal business hours.

• Such documents are also available on the City of Fort Bragg's website at https://city.fortbragg.com subject to staff's ability to post the documents before the meeting.

ADA NOTICE AND HEARING IMPAIRED PROVISIONS:

It is the policy of the City of Fort Bragg to offer its public programs, services and meetings in a manner that is readily accessible to everyone, including those with disabilities. Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities.

If you need assistance to ensure your full participation, please contact the City Clerk at (707) 961-2823. Notification 48 hours in advance of any need for assistance will enable the City to make reasonable arrangements to ensure accessibility.

This notice is in compliance with the Americans with Disabilities Act (28 CFR, 35.102-35.104 ADA Title II).

City of Fort Bragg



416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Text File File Number: 21-488

Agenda Date: 9/20/2021

Version: 1

Status: Passed

In Control: Special City Council

File Type: Resolution

Agenda Number: 2A.

Adopt City Council Resolution Confirming the Continued Existence of a Local Emergency in the City of Fort Bragg

At a special meeting on March 24, 2020, the Fort Bragg City Council ratified the City Manager's Proclamation declaring a local emergency due to COVID-19 in its Resolution No. 4242-2020. Since that date, the Council has adopted the following resolutions reconfirming the existence of a local emergency:

Date Resolution No.

April 6, 2020 4245-2020 April 20, 2020 4247-2020 May 11, 2020 4250-2020 May 26, 2020 4253-2020 June 8, 2020 4266-2020 June 22, 2020 4270-2020 July 13, 2020 4284-2020 July 27, 2020 4289-2020 August 10, 2020 4294-2020 August 31, 2020 4300-2020 September 21, 2020 4304-2020 October 13, 2020 4317-2020 October 26, 2020 4319-2020 November 9, 2020 4323-2020 November 23, 2020 4329-2020 December 14, 2020 4333-2020 December 22, 2020 4340-2020 January 11, 2021 4343-2021 January 25, 2021 4347-2021 February 22, 2021 4358-2021 March 8, 2021 4363-2021 March 22, 2021 4366-2021 April 12, 2021 4376-2021 April 26, 2021 4381-2021 May 10, 2021 4385-2021 May 24, 2021 4391-2021 June 14, 2021 4396-2021 June 28, 2021 4405-2021 July 12, 2021 4418-2021 July 26, 2021 4422-2021 August 9, 2021 4427-2021 August 30, 2021 4434-2021

The City is required to reconfirm the existence of a local emergency every 21 days pursuant to

Fort Bragg Municipal Code Section 2.24.040.

RESOLUTION NO. ____-2021

RESOLUTION OF THE FORT BRAGG CITY COUNCIL CONFIRMING THE CONTINUED EXISTENCE OF A LOCAL EMERGENCY IN THE CITY OF FORT BRAGG

WHEREAS, California Government Code section 8630 empowers the Fort Bragg City Council to proclaim the existence of a local emergency when the City is threatened or likely to be threatened by the conditions of extreme peril to the safety of persons and property that are or are likely to be beyond the control of the services, personnel, equipment, and facilities of this City; and

WHEREAS, California Government Code section 8558(c) states that a "local emergency" means the duly proclaimed existence of conditions of disaster or extreme peril to the safety of persons and property within the territorial limits of a city; and

WHEREAS, COVID-19, a novel coronavirus causing infectious disease, was first detected in China in December 2019 and has spread across the world and to the United States. Symptoms of COVID-19 include fever, cough, and shortness of breath; outcomes have ranged from mild to severe illness, and, in some cases, death. The Center for Disease Control and Prevention (CDC) has indicated the virus is a tremendous public health threat; and

WHEREAS, on March 13, 2020, the President of the United States issued a proclamation declaring the COVID-19 outbreak in the United States as a national emergency, beginning March 1, 2020; and

WHEREAS, the Governor of the State of California and the Public Health Officer of the County of Mendocino have both issued Shelter-in-Place orders to combat the spread of COVID-19; and

WHEREAS, on March 17, 2020 the City Manager, as the City's Director of Emergency Services, issued Proclamation No. CM-2020-01 declaring a local emergency as authorized by Government Code section 8630 and Fort Bragg Municipal Code section 2.24.040(B); and

WHEREAS, at a special meeting on March 24, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4242-2020, ratifying the City Manager's Proclamation declaring the existence of a local emergency; and

WHEREAS, at a special meeting on April 6, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4245-2020 by which it continued the local emergency; and

WHEREAS, at a special meeting on April 20, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4247-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on May 11, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4250-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on May 26, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4253-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on June 8, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4266-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on June 22, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4270-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on July 13, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4284-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on July 27, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4289-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on August 10, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4294-2020 by which it continued the local emergency; and

WHEREAS, at a special meeting on August 31, 2020, the City Council of the City of Fort Bragg adopted Resolution No. 4300-2020 by which it continued the local emergency; and

WHEREAS, at a special meeting on September 21, 2020, the City Council of the City of Fort Bragg adopted Resolution 4304-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on October 13, 2020, the City Council of the City of Fort Bragg adopted Resolution 4317-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on October 26, 2020, the City Council of the City of Fort Bragg adopted Resolution 4319-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on November 9, 2020, the City Council of the City of Fort Bragg adopted Resolution 4323-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on November 23, 2020, the City Council of the City of Fort Bragg adopted Resolution 4329-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on December 14, 2020, the City Council of the City of Fort Bragg adopted Resolution 4333-2020 by which it continued the local emergency; and

WHEREAS, at a special meeting on December 22, 2020, the City Council of the City of Fort Bragg adopted Resolution 4340-2020 by which it continued the local emergency; and

WHEREAS, at a regular meeting on January 11, 2021, the City Council of the City of Fort Bragg adopted Resolution 4343-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on January 25, 2021, the City Council of the City of Fort Bragg adopted Resolution 4347-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on February 8, 2021, the City Council of the City of Fort Bragg adopted Resolution 4351-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on February 22, 2021, the City Council of the City of Fort Bragg adopted Resolution 4358-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on March 8, 2021, the City Council of the City of Fort Bragg adopted Resolution 4363-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on March 22, 2021, the City Council of the City of Fort Bragg adopted Resolution 4366-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on April 12, 2021, the City Council of the City of Fort Bragg adopted Resolution 4376-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on April 26, 2021, the City Council of the City of Fort Bragg adopted Resolution 4381-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on May 10, 2021, the City Council of the City of Fort Bragg adopted Resolution 4385-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on May 24, 2021, the City Council of the City of Fort Bragg adopted Resolution 4391-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on June 14, 2021, the City Council of the City of Fort Bragg adopted Resolution 4396-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on June 28, 2021, the City Council of the City of Fort Bragg adopted Resolution 4405-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on July 12, 2021, the City Council of the City of Fort Bragg adopted Resolution 4418-2021 by which it continued the local emergency; and

WHEREAS, at a regular meeting on July 26, 2021, the City Council of the City of Fort Bragg adopted Resolution 4422-2021 by which it continued the local emergency;

WHEREAS, at a regular meeting on August 9, 2021, the City Council of the City of Fort Bragg adopted Resolution 4427-2021 by which it continued the local emergency;

WHEREAS, at a special meeting on August 30, 2021, the City Council of the City of Fort Bragg adopted Resolution 4434-2021 by which it continued the local emergency;

NOW, THEREFORE, BE IT RESOLVED AND PROCLAIMED by the City Council of the City of Fort Bragg that for reasons set forth herein, said local emergency shall be deemed to continue to exist until the City Council of the City of Fort Bragg, State of California, proclaims its termination; and

BE IT FURTHER RESOLVED that the City Council of the City of Fort Bragg will review the need for continuing the local emergency at least once every 21 days until the City Council terminates the local emergency; and

BE IT FURTHER RESOLVED that this resolution confirming the continued existence of a local emergency shall be forwarded to the Director of the Governor's Office of Emergency Services and the Governor of the State of California, as well as the Mendocino County Office of Emergency Services.

The above and foregoing Resolution was introduced by Councilmember _____, seconded by Councilmember _____, and passed and adopted at a special meeting of the City Council of the City of Fort Bragg held on the 20th day of September, 2021 by the following vote:

AYES: NOES: ABSENT: ABSTAIN: RECUSED:

> BERNIE NORVELL Mayor

ATTEST:

June Lemos, CMC City Clerk





Text File File Number: 21-493 416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Agenda Date: 9/20/2021

Version: 1

Status: Filed

File Type: Minutes

In Control: Special City Council

Agenda Number: 2B.

Approve Minutes of September 13, 2021



City of Fort Bragg

416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Meeting Minutes

City Council

Monday, September 13, 2021	6:00 PM	Via Video Conference
	AGENCY	
	AND THE FORT BRAGG REDEVELOPMENT SUCCESSOR	
T	HE FORT BRAGG MUNICIPAL IMPROVEMENT DISTRICT NO. 1	1
T	HE FORT BRAGG CITY COUNCIL MEETS CONCURRENTLY AS	5

CALL TO ORDER

Mayor Norvell called the meeting to order at 6:00 PM, all Councilmembers appearing via video conference.

PLEDGE OF ALLEGIANCE

ROLL CALL

 Present:
 5 Mayor Bernie Norvell, Vice Mayor Jessica Morsell-Haye, Councilmember Tess

 Albin-Smith, Councilmember Lindy Peters and Councilmember Marcia Rafanan

AGENDA REVIEW

1. MAYOR'S RECOGNITIONS AND ANNOUNCEMENTS

2. PUBLIC COMMENTS ON: (1) NON-AGENDA, (2) CONSENT CALENDAR & (3) CLOSED SESSION ITEMS

(1) Jay McMartin Rosenquist spoke about the City's receivership on a Whipple Street property. (2) None. (3) None.

3. STAFF COMMENTS

City Manager Miller noted that tomorrow is Election Day and polling places are located at Veterans Hall and CV Starr Community Center. Ballots can also be dropped off at City Hall until 8PM on Tuesday, September 14. Miller save an update on transient occupancy tax, stating that August was another record month, up \$509,000 over last year, which is 28% over the best year the City has ever had. She reported on the following events: Trunk or Treat program will be held at CV Starr Center on October 31; the Blue Symposium workshop set for October 8-9 has been rescheduled to May 19-21, 2022; the first Central Business District workshop was held on September 11; Coastal Cleanup Day is September 18. City Manager Miller requested that a special City Council meeting be held regarding the City's debt obligation and broadband study. Council consensus was to hold this special meeting at 6PM on September 20. The City will be giving away free water conservation kits on Wednesday at Farmers Market.

4. MATTERS FROM COUNCILMEMBERS

Councilmember Albin-Smith urged the public to vote on Tuesday. Councilmember Peters

provided an update on Sonoma Clean Power and funding for more electric vehicle (EV) charging stations in Fort Bragg. He noted that he will be attending the League of California Cities annual conference next week. Vice Mayor Morsell-Haye said she supported using transient occupancy taxes to purchase more EV charging stations. The Vice Mayor gave a brief update on the Citizen's Commission regarding a possible name change for the City of Fort Bragg, noting that the Commission has received approximately 1,650 responses to their recent questionnaire.

5. CONSENT CALENDAR

Councilmember Peters requested that Item 5B be removed from the Consent Calendar so he could recuse himself from voting on that item.

Approval of the Consent Calendar

A motion was made by Councilmember Peters, seconded by Councilmember Rafanan, to approve the Consent Calendar with the exception of Item 5B. The motion carried by the following vote:

- Aye: 5 Mayor Norvell, Vice Mayor Morsell-Haye, Councilmember Albin-Smith, Councilmember Peters and Councilmember Rafanan
- 5A. 21-435 Adopt by Title Only and Waive the Second Reading of Ordinance
 970-2021 Amending Article 2 (Zoning Districts and Allowable Land Uses), Article 4 (Standards for Specific Land Uses) and Article 10 (Definitions) of Title 18 (Inland Land Use and Development Code) of the Fort Bragg Municipal Code Relating to Regulation of Formula Business

This Ordinance was adopted on the Consent Calendar.

Enactment No: ORD 970-2021

5C. <u>21-478</u> Adopt City Council Resolution Authorizing Submission of Co-Application with Danco Communities for Permanent Local Housing Allocation Program Non-Entitlement Local Government Competitive Funds in the Amount of \$2,400,000 to Support the Development of a 69-Unit Affordable Housing Project Located at 441 South Street

This Resolution was adopted on the Consent Calendar.

Enactment No: RES 4441-2021

5D. <u>21-484</u> Adopt Joint City Council/Improvement District Board/Redevelopment Successor Agency Resolution Approving a Second Amendment to the Agreement Between the City of Fort Bragg and Jones & Mayer for the Provision of Legal Services and Authorizing the City Manager to Execute the Same

This Resolution was adopted on the Consent Calendar.

Enactment No: RES 4442-2021 / ID 456-2021 / RS 32-2021

Receive and File Minutes of the April 22, 2021 Special Public Works and

5E. 21-466

Facilities Committee Meeting

These Committee Minutes were received and filed on the Consent Calendar.

5F. <u>21-465</u> Receive and File Minutes of the June 10, 2021 Public Works and Facilities Committee Meeting

These Committee Minutes were received and filed on the Consent Calendar.

5G. <u>21-470</u> Approve Minutes of Special Meeting of August 30, 2021

These Minutes were approved on the Consent Calendar.

5H. <u>21-473</u> Approve Minutes of Special Meeting of September 1, 2021

These Minutes were approved on the Consent Calendar.

ITEMS REMOVED FROM CONSENT CALENDAR

5B. <u>21-472</u> Adopt City Council Resolution Establishing a City of Fort Bragg Master Salary Rate Compensation Plan Confirming the Pay Rates/Ranges for All City of Fort Bragg Established Classifications

Councilmember Peters disclosed a conflict of interest due to his spouse's employment with the City of Fort Bragg and recused himself from voting on this agenda item.

Public Comment: None.

A motion was made by Councilmember Albin-Smith, seconded by Vice Mayor Morsell-Haye, that this Resolution be adopted. The motion carried by the following vote:

- Aye: 4 Mayor Norvell, Vice Mayor Morsell-Haye, Councilmember Albin-Smith and Councilmember Rafanan
- Recuse: 1 Councilmember Peters

Enactment No: RES 4443-2021

6. DISCLOSURE OF EX PARTE COMMUNICATIONS ON AGENDA ITEMS

Councilmember Rafanan disclosed that she spoke to two people from Waste Management. Mayor Norvell disclosed that he had a discussion with a Waste Management employee. Vice Mayor Morsell-Haye disclosed that she took a tour of the Waste Management facility a few months ago.

7. PUBLIC HEARING

7A. 21-477Receive Report, Conduct Public Hearing, and Consider Adoption of City
Council Resolution Declaring a Stage 4 Water Crisis and Implementing
Stage 4 Mandatory Water Conservation Measures

Mayor Norvell opened the public hearing at 6:31 PM.

City Manager Miller presented the staff report to Council.

Public Comment was received from Jay McMartin Rosenquist.

Mayor Norvell closed the public hearing at 6:51 PM.

<u>Discussion</u>: After brief deliberations, the Council consensus was that it was important to pass this resolution to conserve water for the community.

A motion was made by Vice Mayor Morsell-Haye, seconded by Councilmember Albin-Smith, that this Resolution be adopted. The motion carried by the following vote:

Aye: 5 - Mayor Norvell, Vice Mayor Morsell-Haye, Councilmember Albin-Smith, Councilmember Peters and Councilmember Rafanan

Enactment No: RES 4444-2021

8. CONDUCT OF BUSINESS

8A. 21-424 Receive Report and Consider Introducing by Title Only and Waiving the First Reading of Ordinance 971-2021 Adding Chapter 7.18 (Feeding of Wildlife) to Title 7 (Animals) of the City of Fort Bragg Municipal Code to Prevent the Feeding of Wildlife in the City of Fort Bragg

Associate Planner Gurewitz presented the staff report on this agenda item.

Public Comment was received from David Jensen.

<u>Discussion</u>: Council agreed that education and signage are key in getting public cooperation with the ordinance banning the feeding of wildlife in Fort Bragg.

A motion was made by Councilmember Peters, seconded by Mayor Norvell, that this Ordinance be introduced by title only, waiving the first reading of the text. The motion carried by the following vote:

- Aye: 5 Mayor Norvell, Vice Mayor Morsell-Haye, Councilmember Albin-Smith, Councilmember Peters and Councilmember Rafanan
- **8B.** <u>21-403</u> Receive Report and Consider Adoption of City Council Resolution Approving the Application for Rural Recreation and Tourism Funds to Rehabilitate the Gym at 416 N. Franklin St. and Develop a Multi-Purpose Recreation Room

Associate Planner Gurewitz presented the staff report on this agenda item.

Mayor Norvell recessed the meeting at 7:35 PM; the meeting reconvened at 7:42 PM.

<u>Public Comment</u>: Jay McMartin Rosenquist spoke in favor of using the old gym for young people, sports and events.

<u>Discussion</u>: Councilmembers noted that staff had done a good job bringing this to the community and looking at different options for use of the space. They agreed to approve the application for funding.

A motion was made by Councilmember Rafanan, seconded by Councilmember Peters, that this Resolution be adopted. The motion carried by the following vote:

Aye: 5 - Mayor Norvell, Vice Mayor Morsell-Haye, Councilmember Albin-Smith, Councilmember Peters and Councilmember Rafanan Enactment No: RES 4445-2021

8C. <u>21-483</u> Receive Report and Consider Adoption of City Council Resolution Authorizing the City Manager to Enter Into Negotiations with C&S Waste Solutions of California, Inc. for Residential and Commercial Garbage, Recyclable Material and Organic Waste Collection

City Manager Miller gave the staff report for this agenda item.

<u>Public Comment</u> was received from: Brad Sea, Steve Shamblin, Diana Ramirez, Michelle Goodman, Jay McMartin Rosenquist, and Jerry Ward.

<u>Discussion</u>: Councilmembers asked questions of C&S Waste Solutions representative Bruce McCracken regarding the hiring of Waste Management (WM) employees. Council discussed the transition process and that residential rates will be lower with C&S than they currently are with WM. The majority of Councilmembers supported entering into negotiations with C&S for a new solid waste franchise agreement. Councilmember Rafanan expressed reservations about the new contract, citing concerns about WM employees.

A motion was made by Councilmember Peters, seconded by Mayor Norvell, that this Resolution be adopted. The motion carried by the following vote:

- Aye: 4 Mayor Norvell, Vice Mayor Morsell-Haye, Councilmember Albin-Smith and Councilmember Peters
- No: 1 Councilmember Rafanan

Enactment No: RES 4446-2021

9. CLOSED SESSION

Mayor Norvell recessed the meeting at 8:57 PM. The meeting reconvened to Closed Session at 9:02 PM.

- **9A.** 21-479CONFERENCE WITH LEGAL COUNSEL- ANTICIPATED LITIGATION:
Significant exposure to litigation pursuant to paragraph (2) of subdivision
(d) of Government Code Section 54956.9: One (1) Case.
- 9B. 21-480
 CONFERENCE WITH REAL PROPERTY NEGOTIATORS FOR POSSIBLE ACQUISITION OF REAL PROPERTY, Pursuant to Government Code Section 54956.8: Real Property: APN 008-430-21, APN 008-430-22, APN 018-040-61, APN 018-430-22, APN 018-040-61, APN 018-120-50, APN 008-171-07, APN 008-161-08, APN 008-151-26, APN 008-161-27 and the Southern portion of former APN 008-020-15, Fort Bragg, CA 95437; City Negotiator: Tabatha Miller, City Manager; Negotiating Party: Dave Massengill, Environmental Affairs, Georgia Pacific Corporation; Under Negotiation: Terms of Acquisition, Price
- 9C. 21-482
 CONFERENCE WITH LEGAL COUNSEL EXISTING LITIGATION: Pursuant to Paragraph (1) of Subdivision (d) of California Government Code Section 54956.9; FB Local Business Matters and Leslie Kashiwada v. City of Fort Bragg, Superior Court of California, County of Mendocino, Case No. 21CV00652

Mayor Norvell reconvened the meeting to Open Session at 9:57 PM and reported that no reportable action was taken on the Closed Session items.

ADJOURNMENT

Mayor Norvell adjourned the meeting at 9:57 PM.

BERNIE NORVELL, MAYOR

June Lemos, CMC, City Clerk

IMAGED (_____)

City of Fort Bragg



Text File File Number: 21-500 416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Agenda Date: 9/20/2021

Version: 1

Status: Filed

In Control: Special City Council

File Type: Report

Agenda Number: 3A.

Receive Presentation from NHA Financial Advisors on the Proposed 2021 Taxable Lease Revenue Bonds (CalPERS UAL Restructuring & Site Acquisition)

2021 FINANCING PROJECT POTENTIAL ACQUISITION OF SOUTHERN MILL SITE PROPERTY + CALPERS UAL RESTRUCTURING

PROCESS UPDATE, PRELIMINARY STRATEGY AND NEXT STEPS



NHA ADVISORS

Financial & Policy Strategies. Delivered.

September 20, 2021

Background

- Over the course of the last 12 months, City Staff has been exploring pension cost management strategies for its growing Unfunded Accrued Liability (UAL) with CalPERS
 - The UAL is a debt with CalPERS that represents the shortfall between what the City currently has in assets vs. how much it will need to fully pay retiree benefits
 - Current outstanding UAL balance is \$11.4 million (6/30/2020 valuation)
 - This gap/shortfall is paid back at a 7.0% interest rate currently (though this rate may decrease to 6.50% or 6.75% as described in the presentation)
- At the same time, staff has also been exploring options for funding the acquisition of certain property at the Southern Mill site
- In order to preserve General Fund cash reserves and budgetary flexibility, City Staff and its Municipal Advisor (NHA) have been exploring financing options for both projects to determine the most cost-effective approach that meets the City's various objectives





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2021 Financing Project (*Potential Acquisition of Southern Mill Site Property + CalPERS UAL Restructuring*) - Process Update/Overview

- **December 2020:** Staff and Consultant delivered CalPERS UAL Presentation to City's Finance Committee
- June 2021: NHA delivered presentation to full City Council on CalPERS UAL cost management strategies and pros/cons and risks of a UAL Restructuring

July 2021 to Current:

- Financing Team Assembled
 - Staff engaged NHA Advisors to serve as its Municipal Advisor and Jones Hall to serve as bond and disclosure counsel (legal counsel on City's prior financings); Staff also recently engaged Brandis Tallman, a Division of Oppenheimer, to serve as Underwriter through a competitive RFP process
- Continued refinements to financing options and strategy
- Drafting of bond documents
- September 20, 2021 (Tonight) Update
 - Revisiting City Objectives
 - Update on Bond Market and UAL Restructurings
 - Preliminary Recommended Financing Strategy
 - Next Steps



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2021 Financing Project City Objectives

Raise \$3.5M for Potential Acquisition of Southern Mill Site Property

• Flexibility to pay off debt early if funds aren't needed

Restructure a Portion of the City's CalPERS UAL to:

- Generate interest rate savings (Convert 7% CalPERS debt to ≈ 3.00 3.25% bond debt)
- Create a smoother repayment shape to enhance budget predictability and future resiliency to economic shocks + Lower the City's annual payments to create more capacity to afford the \$3.5M site acquisition debt
- Shorten final term of UAL debt if possible

Use Most Cost-Effective and Efficient/Flexible Structure

 Recommended structure is through <u>ONE lease financing</u>; built in flexibility to achieve multiple objectives and costs savings vs. separate financings



Financing Options Evaluated

- City Staff and NHA explored multiple options for restructuring the UAL
 - Pension Obligation Bond unsecured debt but requires a court validation process that can take 4 to 6 months
 - Lease Debt secured by City-owned assets
 - Secured by City Streets
 - Secured by City-Owned Buildings Recommended
- Given that potential site-acquisition would need to be financed through a lease bond, including the UAL restructuring as part of the same financing is the most cost effective and efficient approach
 - Also allows City to get to market sooner vs. waiting for a POB validation process; doesn't require breaking up these projects into separate financings
 - Using City-owned buildings (i.e., City Hall, Police Station) as opposed to streets will garner lower interest rate and improve chances of securing "AA" bond insurance

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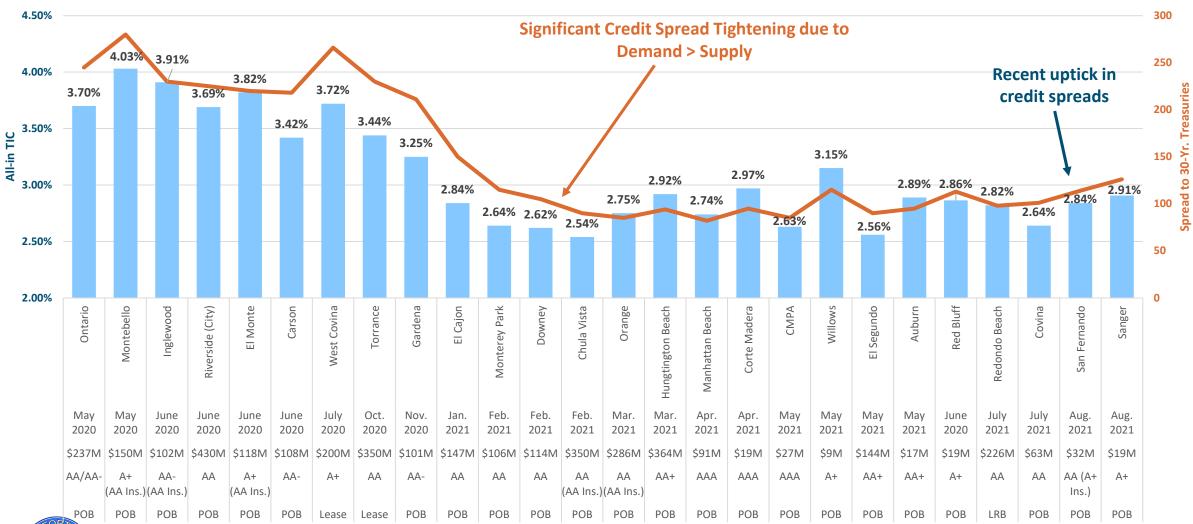
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- Several planned for issuance this Fall 2021

		How to Sha redondo				City of Willows	Tes Tons or Annual State		6
San Fernando	Whittier	Redondo Beach	Red Bluff	Auburn	El Segundo	Willows	Corte Madera	Manhattan Beach	Huntington Beach*
(2021)	(2021)	(2021)	(2021)	(2021)	(2021)	(2021)	(2021)	(2021)	(2021)
\$31,780,000	\$133,895,000	\$226,180,000	\$18,540,000	\$17,165,000	\$144,135,000	\$8,510,000	\$18,955,000	\$91,275,000	\$363,645,000
AA (Ins.)	AA (Ins.)	AA	A+	AA+	AA+	A+	AAA	AAA	AA+
() I OF OR ALL	CHULAVISTA	Contraction of the second		Ter tality of Upperfaulty CENTENNIAL	City of Ukiah			Ŷ	PLACENTIA
Orange	Chula Vista	Downey	Monterey Park*	El Cajon	Ukiah	Coachella	Gardena	Arcadia	Placentia
(2021)	(2021)	(2021)	(2021)	(2021)	(2020)	(2020)	(2020)	(2020)	(2020)
\$286,485,000	\$350,025,000	\$113,580,000	\$106,335,000	\$147,210,000	\$49,875,000	\$17,590,000	\$100,590,000	\$90,000,000	\$52,950,000
AA	AA	AA	AA	AA	A+	AA-	AA-	AAA	BBB+
							RIVERSIDE		
Torrance	Azusa	Pomona	West Covina	Grass Valley	Carson	El Monte*	Riverside	Inglewood*	Montebello*
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\$349,515,000	\$70,075,000	\$219,890,000	\$204,095,000	\$18,311,000	\$108,020,000	\$118,725,000	\$432,165,000	\$101,620,000	\$153,425,000
AA	AA-	AA-	A+	Private Placement	AA-	A+ (Ins.)	AA	AA- (Ins.)	A+ (Ins.)
									~~~



# **Pension Bond Market Update:** Interest Rates (Blue Bars) Have Dropped Dramatically due to Growing Investor Demand (Orange Line)





Note: Spreads and interest rates should be considered best estimates. Rates reflect estimated all in interest rate on financing.

#### NHA ADVISORS Financial & Policy Strategies. Delivered.

### Major Change Since June Workshop: CalPERS 21.3% Gains Will Reduce City's UAL and Number of Required Assets to Secure Financing

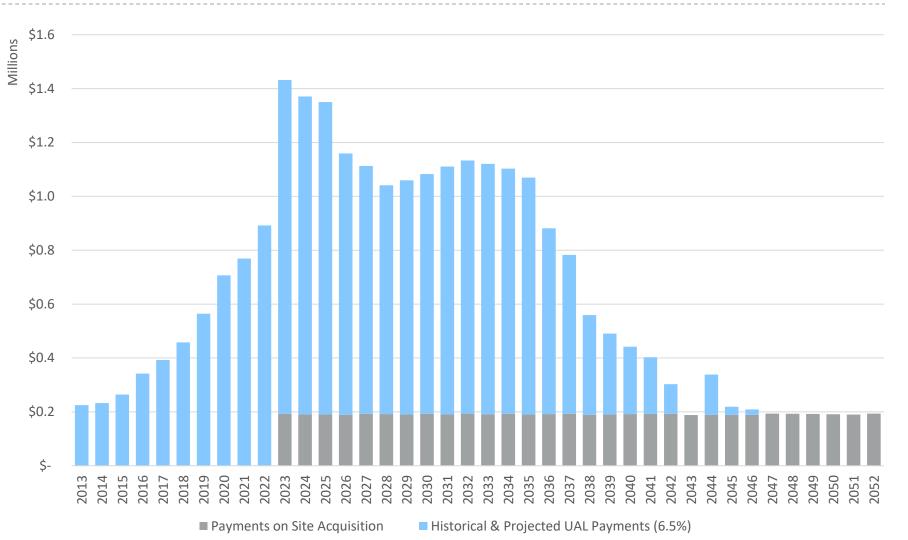
- Given CalPERS strong 21.3% returns, City's current \$11.4M UAL will be reduced significantly
- However, CalPERS will offset some of this benefit through a reduction in its Discount Rate this November (their assumed rate of investment return)
  - ▶ If Discount Rate is reduced to 6.75%, City's estimated UAL will be \$8.4M
  - If Discount Rate is reduced to 6.50%, City's estimated UAL will be \$9.8M (assumed for preliminary analysis)
- Previously, it was assumed that three (3) City owned assets would be required to secure the financing given expected size
  - Based on new lower UAL, it is recommended that a maximum of two (2) assets be used
    - > City can issue smaller financing using one asset, but savings objectives not fully met (see slide 10)



25

# **New Baseline Situation:** Estimated Repayments for City's 9.8M UAL and Payments on \$3.5M 30-Year Bond for Southern Mill Site Project

- Even with reduction in UAL, General Fund debt payments expected to be between \$1.0 and \$1.4M through FY 2035
- Payments on UAL (light blue bars) are uneven
  - Final payment on UAL in 2046





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NHA

### **Recommendation for Optimal Financing Size (City Hall + Police Station)** Alternative Small Option Also Presented

Recommended		Alternative	Recommended
option allows for ≈75% of		Option 1 City Hall Only	Option 2 City Hall + Police Station
UAL to be refinanced	Est. Value	8,120,730	11,117,179
	Less: Site Acquisition	(3,500,000)	(3,500,000)
	Less: Est. Financing Costs	(330,000)	(370,000)
<ul> <li>Brings funding ratios to</li> </ul>	Available for UAL	4,290,730	7,247,179
healthy 95% range	UAL if 6.75% DR	8,340,000	8,340,000
	% of UAL Funded	51%	87%
Smaller option allows for 44%	New Funded Ratio	91%	98%
of UAL to be	UAL if 6.50% DR	9,790,000	9,790,000
refinanced	% of UAL Funded	44%	75%
Higher interest	New Funded Ratio	88%	95%
rate and about \$1M less in		\$1.0 Million	\$1.9 Million

est. savings

27

\$3.7 Million

3.29%

NHA

\$2.9 Million

3.54%

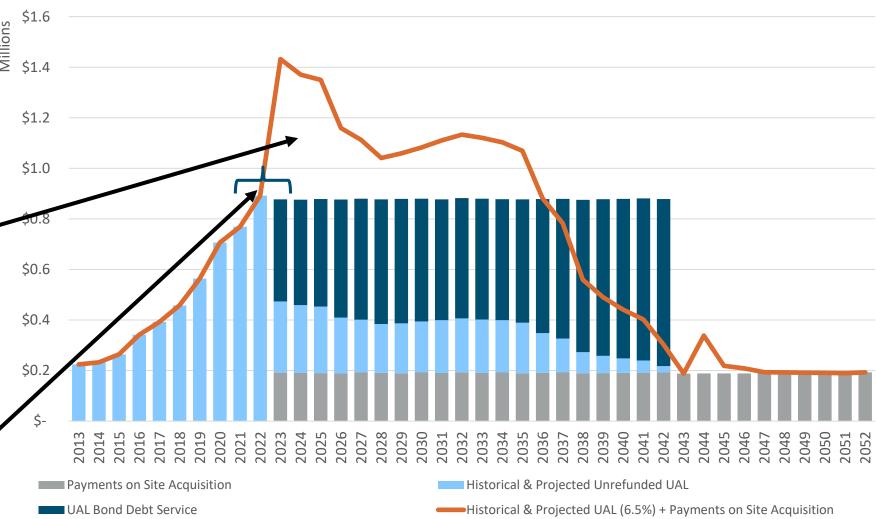
Est. Savings Through 2035

Interest Rate on UAL Restructuring

### **Recommended Option for Optimal Financing Size**

### Baseline Payments (Orange) vs. New Proposed Payments (Bars)

- 75% of UAL refinanced (dark blue bars) to create overall lower/smoother debt payments for General Fund
  - Term reduced to 2042
- Overall payments significantly lower (\$3.7M est. savings) vs. Baseline
   through 2035 shown in orange line
- Restructuring allows for overall General fund debt payments of \$880K annually
  - No increase to what City just paid on UAL for FY 2022





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NHA

### **Estimated Savings Analysis for Proposed UAL Restructuring**

Metrics	20-Year UAL Restructuring
\$ UAL Payoff	\$7,247,179
% UAL Funded (Current Asset Valuations)	66%
Funded Ratio (Current Asset Valuations)	90%
% UAL Funded (Projected After FY 2021 Returns)	75%
Funded Ratio (Projected After FY 2021 Returns)	95%
Maturity	20 Years
Average Life	12.5 Years
All-In Interest Rate (on UAL Restructuring)	3.29%
Present Value Savings (%)	25.11%
Present Value Savings (\$)	\$1,899,718
Cumulative Savings	\$1,587,799
Savings (2023-2035)	\$3,724,674
Avg. Annual Savings (2023-2035)	\$286,513

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### **Revisiting UAL Restructuring Risks**

### CalPERS Reinvestment/Market Timing Risk

- Savings is ultimately dependent on future CalPERS returns, which are unknown at time of issuance
  - ▶ If CalPERS earns less than 6.50/6.75%, savings will be less than shown on previous pages
  - ▶ If CalPERS earns more than 6.50/6.75%, savings will be more than shown on previous pages
- Rule of Thumb: Present value savings occur ONLY if CalPERS earns greater returns than pension bond interest rate (i.e., 3.00-3.25% in current market)
  - City would be worse off if CalPERS earned less than bond rate (3.00-3.25%) on average over next 20 years
  - Near-term losses exacerbate this risk given large lump sum deposit into the market

CalPERS 5-Year Average Annual Return: 10.5% CalPERS 10-Year Average Annual Return: 8.8% CalPERS 20-Year Average Annual Return: 7.4% CalPERS 30-Year Average Annual Return: 7.5%





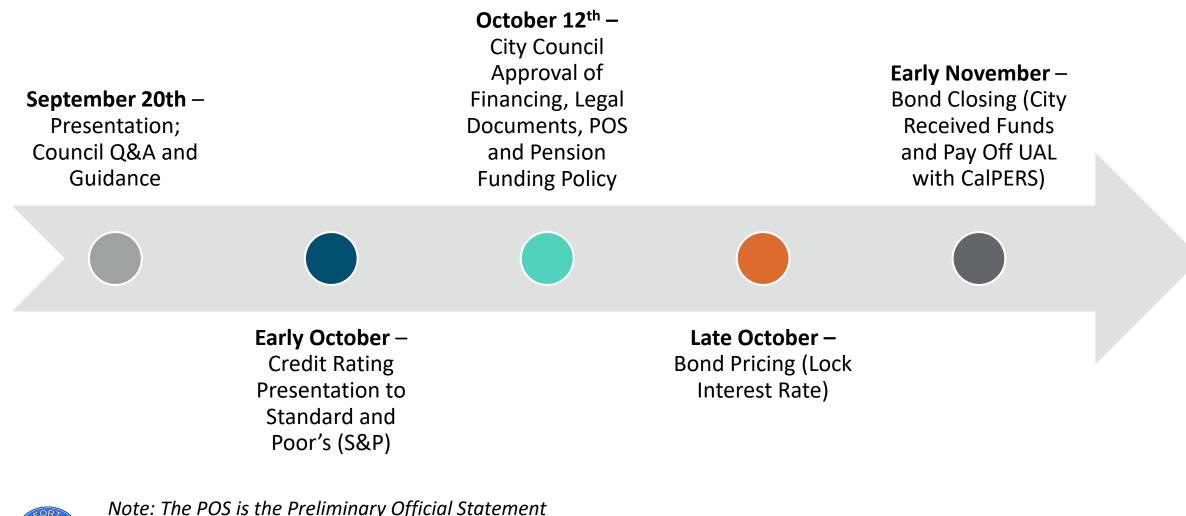
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- Utilize City Hall and Police Station to secure lease financing
  - Provides best chance to obtain "AA" bond insurance and further lower interest rate
  - City can also just use City Hall and reduce financing size, but savings will be reduced and slightly higher interest rate
- Financing Team will continue monitoring CalPERS meetings this month to optimize UAL restructuring size based on proposed assumption changes
- Given the goals for the site acquisition (open space preservation, affordable housing, site clean up), the team is also exploring the feasibility of designating a portion of the financing as "ESG Bonds" Environment, Social and Governance
  - Would allow City to be at forefront of social/moral investment trend and align with City's overall sustainability goals
- Structure will also include flexibility to pay off a portion of the debt early from unspent bond proceeds if Southern Mill Site Project doesn't come to fruition



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### **Next Steps and Proposed Schedule**





Note: The POS is the Preliminary Official Statement and is the prospectus used to solicit interest for the City's bonds from investors



## 2021 FINANCING PROJECT POTENTIAL ACQUISITION OF SOUTHERN MILL SITE PROPERTY + CALPERS UAL RESTRUCTURING

**PROCESS UPDATE, PRELIMINARY STRATEGY AND NEXT STEPS** 



# NHA ADVISORS

Financial & Policy Strategies. Delivered.

September 20, 2021

### Background

- Over the course of the last 12 months, City Staff has been exploring pension cost management strategies for its growing Unfunded Accrued Liability (UAL) with CalPERS
  - The UAL is a debt with CalPERS that represents the shortfall between what the City currently has in assets vs. how much it will need to fully pay retiree benefits
    - Current outstanding UAL balance is \$11.4 million (6/30/2020 valuation)
  - This gap/shortfall is paid back at a 7.0% interest rate currently (though this rate may decrease to 6.50% or 6.75% as described in the presentation)
- At the same time, staff has also been exploring options for funding the acquisition of certain property at the Southern Mill site
- In order to preserve General Fund cash reserves and budgetary flexibility, City Staff and its Municipal Advisor (NHA) have been exploring financing options for both projects to determine the most cost-effective approach that meets the City's various objectives





### 2021 Financing Project (*Potential Acquisition of Southern Mill Site Property + CalPERS UAL Restructuring*) - Process Update/Overview

- **December 2020:** Staff and Consultant delivered CalPERS UAL Presentation to City's Finance Committee
- June 2021: NHA delivered presentation to full City Council on CalPERS UAL cost management strategies and pros/cons and risks of a UAL Restructuring

#### July 2021 to Current:

- Financing Team Assembled
  - Staff engaged NHA Advisors to serve as its Municipal Advisor and Jones Hall to serve as bond and disclosure counsel (legal counsel on City's prior financings); Staff also recently engaged Brandis Tallman, a Division of Oppenheimer, to serve as Underwriter through a competitive RFP process
- Continued refinements to financing options and strategy
- Drafting of bond documents
- September 20, 2021 (Tonight) Update
  - Revisiting City Objectives
  - Update on Bond Market and UAL Restructurings
  - Preliminary Recommended Financing Strategy
    - Next Steps



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### **2021 Financing Project** City Objectives

### Raise \$3.5M for Potential Acquisition of Southern Mill Site Property

• Flexibility to pay off debt early if funds aren't needed

### **Restructure a Portion of the City's CalPERS UAL to:**

- Generate interest rate savings (Convert 7% CalPERS debt to ≈ 3.00 3.25% bond debt)
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### **Use Most Cost-Effective and Efficient/Flexible Structure**

 Recommended structure is through <u>ONE lease financing</u>; built in flexibility to achieve multiple objectives and costs savings vs. separate financings



# **Financing Options Evaluated**

- City Staff and NHA explored multiple options for restructuring the UAL
  - Pension Obligation Bond unsecured debt but requires a court validation process that can take 4 to 6 months
  - Lease Debt secured by City-owned assets
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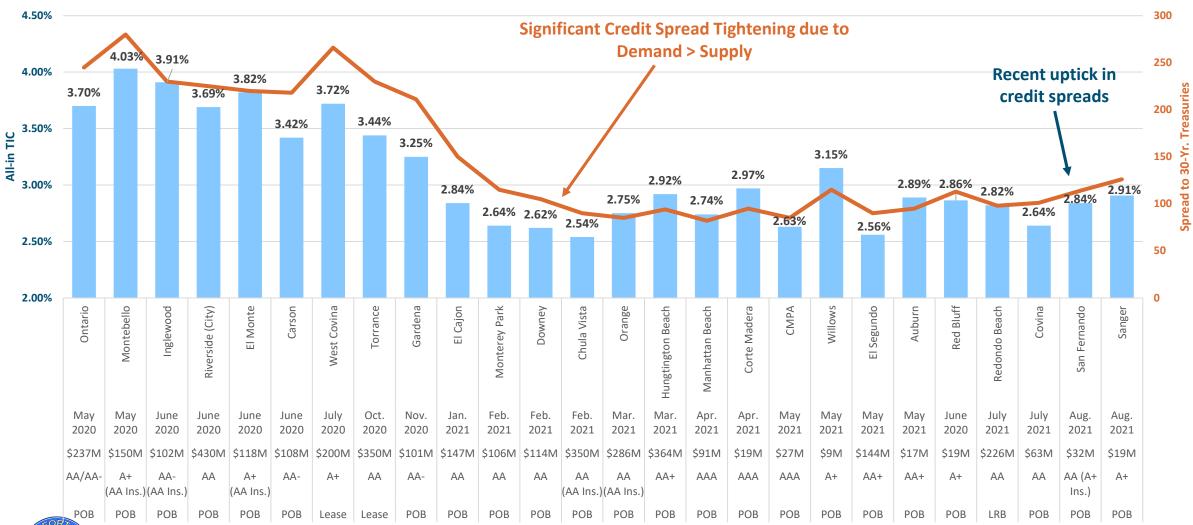
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		Mon 'Is Sho redondo				City of Willows	Far Tores or Control Manual	0	9
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#### NHA ADVISORS Financial & Policy Strategies. Delivered

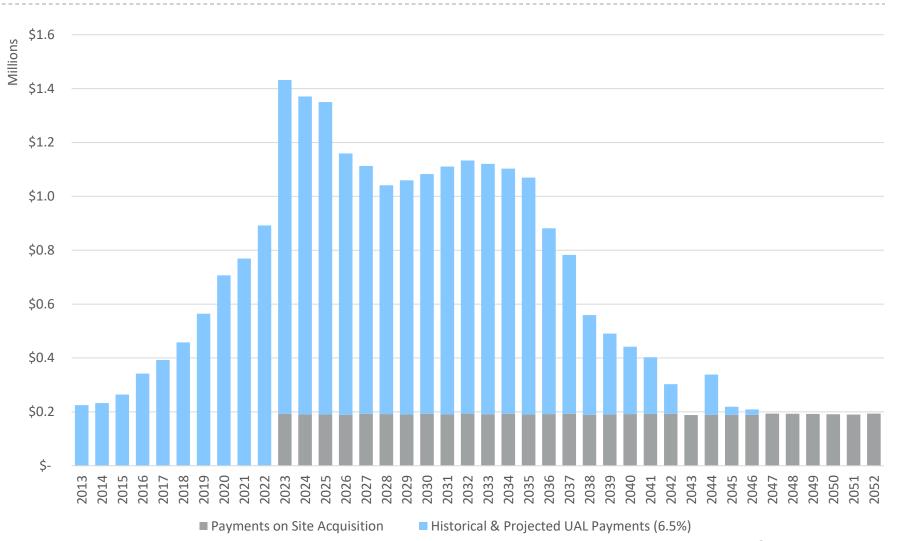
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**C** 

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NHA

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est. savings

Interest Rate on UAL Restructuring

Est. Savings Through 2035

42

\$3.7 Million

3.29%

\$2.9 Million

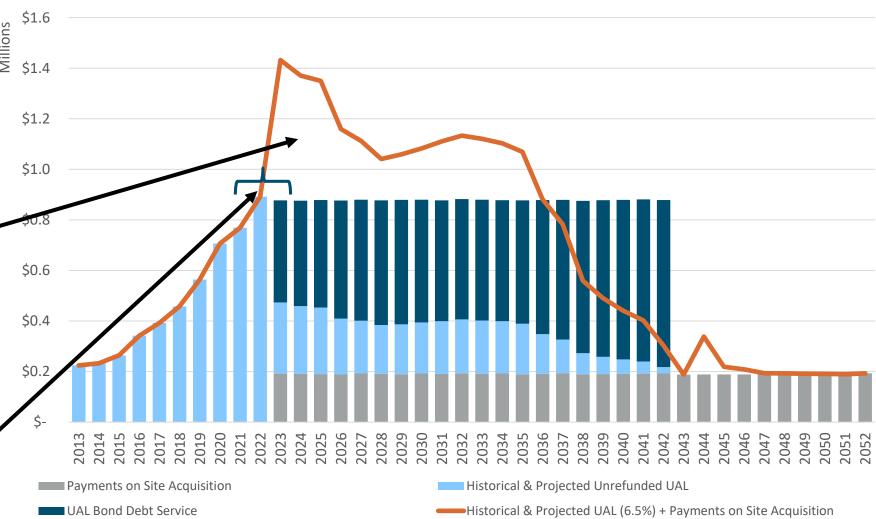
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10

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NHA

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44

# **Revisiting UAL Restructuring Risks**

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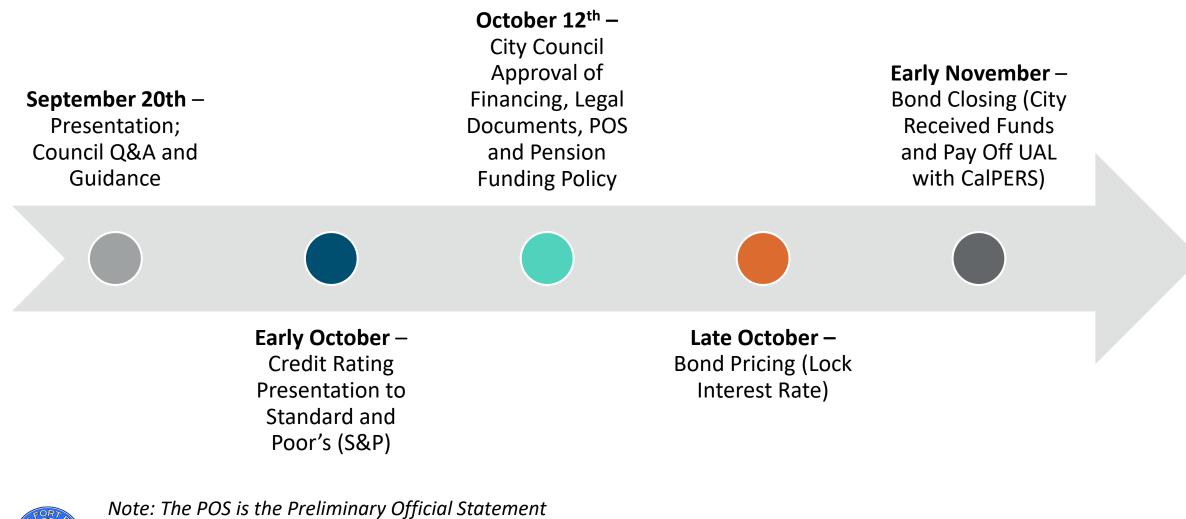


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# **Next Steps and Proposed Schedule**





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Text File File Number: 21-503

Agenda Date: 9/20/2021

Version: 1

Status: Business

File Type: Staff Report

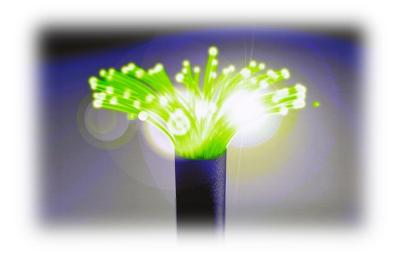
416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

In Control: Special City Council

Agenda Number: 3B.

Update and Presentation on the Fort Bragg Digital Infrastructure Project

The City contracted with City Smart Consulting in May, 2021 to prepare a Digital Infrastructure Plan to estimate the cost of building out a Broadband Municipal Utility and to outline the structure and operations of the potential utility. That report is attached.



# Fort Bragg Digital Infrastructure Project

An Approach to Implement High-Speed Internet for The City of Fort Bragg



# CALIFORNIA

August 2021

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# **EXECUTIVE SUMMARY**

The purpose of this document is to provide the City of Fort Bragg (city) with a high-level overview of a Digital Infrastructure Plan which includes desktop design and estimated build costs for a Fiber to the Premise (FTTP) broadband deployment project, as well as a potential path for operating and servicing customers over the network. The resulting project information will allow city to make an informed decision on the next steps in providing Fort Bragg with a digital infrastructure (underground conduit, fiber, and electronics) and to provide high-speed internet service to residences/businesses within the City Limits of Fort Bragg with a resilient and future proof underground fiber-optic based network capable of serving residences, businesses, and anchor institution.

An assessment of the broadband availability found there are four primary Internet service providers in Fort Bragg providing service over fiber optic cable, cable TV (Radio Frequency cable) systems, copper DSL, fixed wireless, dial-up, and satellite internet. The two largest providers of fiber-based Internet services are AT&T and Comcast, mostly in the more business concentrated areas in the city. Sonic has recently come into Mendocino, offering high-speed Internet services using AT&T Unbundled Network Elements (UNE), i.e., aged AT&T copper pair infrastructure. In addition to these three providers, several smaller fixed wireless Internet service providers, including North Coast Internet, and Mendocino Community Network (MCN); however, these providers cannot scale a robust high-speed network like fiber optic cable delivered systems. It is public knowledge that Fort Bragg consumers are unhappy with current high-speed Internet providers, both from speed and service issues, and little can be done to motivate incumbent carriers to address the issues by deploying underground fiber infrastructure.

Fort Bragg needs a Digital Infrastructure Plan that positions city to control their own destiny, especially with forthcoming technologies expected in the next few years, all of which require greater bandwidth than what traditional service provider technology can generate. This plan calls for the funding and construction of a fiber-to-the-premise (FTTP) network. It is planned that customers will be able to obtain fiber-based technology with speeds up to 10 Gbps at or near current incumbent pricing. This plan also identifies MCN as the service provider who is fully capable of providing service, this eliminating the need for the city to become an ISP. MCN and the City will negotiate wholesale and retail pricing once detailed engineering is completed, total cost is determined, and funding sources identified.

The result of this analysis demonstrates the cost of owning a fiber network capable of providing much needed affordable broadband services to its residence and business customers, and can do so without the risks associated with starting up an ISP; MCN will do that for the city.

**PROJECT OVERVIEW** 

### **PROJECT OVERVIEW**

Management and Design: City Smart Consulting (CSC) and its partners have planned, and performed a desktop-designed project for implementation, as part of the *City of Fort Bragg Digital Infrastructure Plan 2021-2025.* The CSC team collaborated with PalniES Engineering, Walker and Associates, ADTRAN, and Juniper to design the project for next steps implementation, Additionally, CSC coordinated and received feedback from MCN, who is being considered as the service provider responsible to manage and operate the end-user customer under a service agreement with the city.

<u>Targeted Households/Businesses</u>: The project in the *City of Fort Bragg* is targeted to reach approximately 4000 homes/business addresses within the city limits. Specifically, residences comprise 3100 households, while businesses comprise 900 locations. Residence and businesses represent 2654 structures; some structures like MDU's and Multi-tenant businesses share a single building structure.

**Network Architecture:** The approach is to bring between to 1 - 10 Gbps Internet connectivity and voice service to all homes, businesses, towers, and anchor institutions in the community areas via a robust underground fiber-based last-mile fiber distribution system. The projects have three infrastructure components - 1) Last-Mile Distribution Systems, 2) Data Center Electronics, and 3) Fiber to the Premise Drops

Estimated Capital Cost: The estimated cost to implement all three Components is \$12,156,845

**Deployment Schedules:** The deployment schedule for this project with an assumed construction start date of June 2022 and a final completion date of June 2025 or a total of 36 months from start to finish. The base infrastructure passing homes should take 20 weeks or less, while drops to be placed upon service request and will be ongoing until a service drop reaches all locations estimated in 2025.

# **INTRODUCTION**

IMPLEMENTATION OF THE DIGITAL INFRASTRUCTURE PLAN

Recommended stated goal of the *City of Fort Bragg* is to:

"Provide a digital infrastructure for affordable high-speed Internet access for 100% of households and businesses by 2025."

High-speed Internet, for the purposes of this plan is defined as gigabit service (1-10 Gbps or higher). This is an ambitious goal, but critical for the economic future of Fort Bragg and through advancements in technology it is possible.

The *Plan* has three objectives:

- 1) Develop Projects to Deploy Fiber Optic Cable based technology to City of Fort Bragg
- 2) Create Policies that Local Government can Support to Improve the Network and Facilitate Future Technologies
- 3) Develop Projects that Improve Resiliency and Redundancy in Digital Infrastructure Systems

When this project is completed, nearly 3,100 households and 900 businesses will have broadband access at 21st century gigabit speeds. There will also be a technologically advanced, robust, and diverse fiber-based infrastructure around the city, as depicted on the maps included in this document.

# **PROJECT PLANNING ASSUMPTIONS**

The following are the key assumptions that guided the team in developing the City of Fort Bragg, Digital Infrastructure Plan:

- One hundred (100%) percent of the households and businesses are to be connected via underground conduit and fiber installation. Underground fiber design is to preserve and "future proof" the infrastructure during severe storms, wildfires, and other unforeseen disasters. According to an assessment by Magellan Advisors for Napa County, 30 percent of the telecommunications infrastructure was damaged by the 2017 wildfires. The underground infrastructure was not damaged.¹
- Project will use Internet backhaul provided by AT&T to connect end-users with the worldwide Internet; AT&T is the only provider for this service at this time. There are other

¹ http://www.mendocinobroadband.org/wp-content/uploads/Napa-County-Fiber-Infrastructure-Engineering-Assessment-Report.pdf

efforts underway that could provide other backhaul choices soon. The State of California is pursuing a state-wide Open-Access middle-mile project.

- The fiber optic cable approach in this project is to provide capabilities up to 10 Gbps Internet connectivity to all households, large and small businesses, anchor institutions, and other institutions in the community areas, via a robust underground fiber optic cable network. Additionally, this network can provide Internet backhaul for WISP's and Cellular providers that wish to utilize network. The network will be available for any provider who desires to have fiber connectivity.
- The host Data Center will be located 416 N. Franklin Street, in Fort Bragg and will be equipped with Juniper Routers, ADTRAN Optical Line Terminal (OLT) XGSPON 10 Gig line cards, Fiber-optic patch panels, local 32:1 splitter, backup power, HVAC, and fire suppression equipment. This location already has a sufficient backup generator in the event of prolonged power outages. The location will have diverse dual entrance conduits connected to AT&T backhaul services.
- Cost estimates are based upon desk-top design; prior to moving forward the city will need to perform detailed engineering and obtain firm quotes following city construction and procurement policies.
- MCN is the service provider; the city provides fiber optic cable infrastructure and electronic equipment only, while MCN markets, sells, provisions, bills, and repairs customers (service activation and service assurance).
- MCN will pay a wholesale fee to the city for use of the fiber infrastructure.
- Network to be designed as future proof to facilitate growth and future technological advancements.

# **BROADBAND NETWORK OVERVIEW**

## **OVERVIEW OF THE NETWORK ARCHITECTURE**

The approach is for MCN to offer up to 10 Gbps Internet connectivity to all homes, businesses, towers, and other institutions in the community areas via a robust underground last-mile fiber distribution system. The city will design & engineer, build, and operate the entire network infrastructure by providing all the necessary equipment to light the last-mile network (city is network owner). MCN will serve as the service provider with the primary goal to provide a reliable high-speed Internet network service to all potential users in the community at a competitive price, encouraging economic development, and providing excellent customer service. The city will monitor MCN service results via a Subscriber Service Level Agreement (SLA) to ensure service meets or exceeds user expectations.

Through partners (fiber cable manufacturers, electronic equipment providers), the infrastructure owner/provider (city) will detail design and build the network utilizing a passive optical network design for residential and small business, and some active Ethernet (dedicated fibers from data center to their location) for larger businesses. City will utilize this approach to create a state-of-the-art network design with the future in mind.

The plan for in the city is to have a centralized data center located at 416 N. Franklin St, that will host Internet electronics equipment that connects with nine XGS-PON splitter cabinets located throughout the city. The data center will be supplied with Core Routing, Edge routing, and Optical Line Terminal equipment (OLT). The data center will have eight-hours back-up power via batteries and will further be supported by an existing backup generator in the event of prolonged power outage.

Nine distribution areas (DA's) will be designed with passive splitter cabinets that will be placed throughout the community. The distributed cabinets will be based upon the size of the distribution area and distance reach of optical port cards. In each location, there will be an above ground passive XGS-PON cabinets². These locations we will serve as the aggregated fiber locations where conduit, fiber cable, and fiber distribution terminals serving each home/business will be fed from. The cabinets will look similar to what incumbent providers already have within the city ROW.

At each end-user location, construction crews will place underground conduit and fiber drop wire connected from the fiber service terminal (FST) to a connection point at each location at or near current utility entrance point (demark); this completes the fiber infrastructure owned by the city.

Upon service request, MSN will arrive at the home/business and place the ONT device (fiber termination). Once fiber is located at the side of the structure the demark location has been established. MCN will perform service installation by installing in-building fiber cable from the demark location inside the home or business. During the installation process, MCN will place an integrated optical network termination device (ONT) with four ethernet ports, a voice service port, and indoor Wi-Fi 6 capabilities.

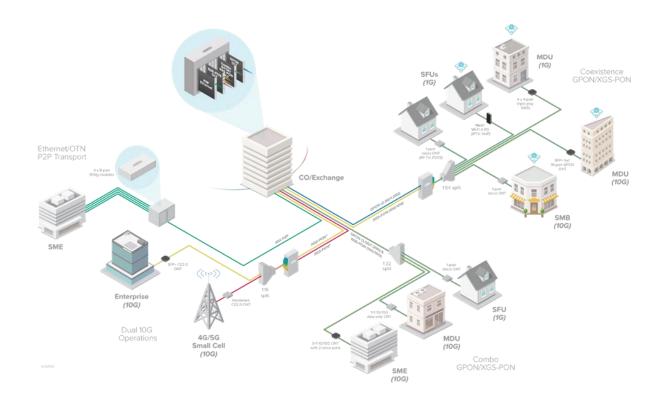
For larger businesses, city will provision a dark or lit fiber service using traditional industry interconnection equipment (small router). The city will terminate fiber at the main point of entry (MPOE), MCN will work with customer on inside wire design and installation.

Internet peering and voice service including diverse 911 path to Mendocino County PSAP is planned to be from primary network data center. The city along with MCN will install fiber and routing equipment that will provide much needed diverse routing ensuring diversity for 911-service as well as internet backhaul. Infrastructure to be placed between data center and MCN data center to allow network interconnection. MCN performs these functions today for their existing customers.

² The passive cabinets do not require power as there are no electronics, just fiber splitters.

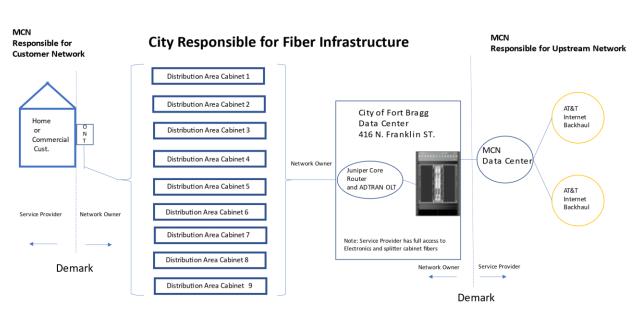
AT&T is the only carrier that can provide Internet backhaul capacity, as a result the city and MCN would build in as much diversity as possible until other options are available; this is the current situation in Fort Bragg. As new long-haul options become available MCN will provide much needed diversity for this important component of the project. Backhaul providers will be chosen by and paid for by MCN through an open quote process (even though it is AT&T network) Backhaul circuits to be activated once the network nears completion; pricing varies greatly and is expected to be lower as time goes on. Internet backhaul is designed to be reliable, with improved performance. MCN understands how to manage backhaul and have been doing it for years. See Figure 1 – Basic Industry High-level Network Architecture.

#### Figure 1: Basic Industry High-Level Network Architecture (Cite: Walker and Associates)



The Fort Bragg specific network architecture is based upon the same design concepts found in existing, larger city designs. Below is the proposed network architecture and design for the City of Fort Bragg. This architecture is easily expanded for future growth of the city. See Figure 2 City of Fort Bragg Network Architecture. You will note the separation of responsibilities between the city and MCN. A responsibility matrix has been discussed between MCN and the city with agreed upon demark locations.

#### Figure 2: City of Fort Bragg Network Architecture



# City of Fort Bragg - Network Architecture

# **PROJECT DESCRIPTION**

## DESKTOP MANAGEMENT AND DESIGN, COST, AND DEPLOYMENT SCHEDULE

Management and Design: CSC collaborated with vendor community to perform a desktop design to arrive at estimates, as part of the *City of Fort Bragg Infrastructure Plan: 2021-2025,* 

**CSC** also collaborated with MCN as they are targeted to become the service provider; service provider must have a say in the design so they can efficiently operate and provide the levels of service they provide.

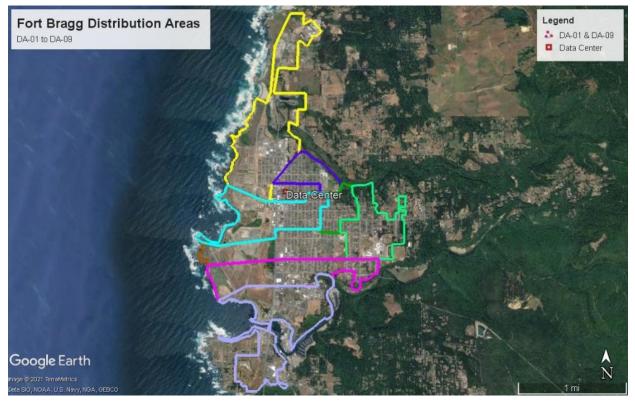
**Estimated Cost:** The City of Fort Bragg project is estimated to cost **\$12,156,845** to implement. The capital expenses are defined as: 1) detailed engineering, 2) last-mile distribution system, 2) electronics, 3) fiber to the premise drops, and 4) project management. It is recommended the city (infrastructure owner) build the electronics and last-mile distribution and then have MCN turn up service, while fiber to the home drops can be deployed when request for service activation occurs. The total cost breakdown for 100% of the locations is as follows: last-mile distribution - **\$6,980,475**, electronics and data center equipment preparation - **\$738,123** fiber to the premise drops - **\$4,082,478**, and project management - **\$355,769**.

**Deployment Schedule:** The build out schedule is dependent upon a few factors of which some, but not all, are the results from detailed engineering, material availability, construction crew availability, permits, and weather. Expect timing to be determined based upon funding availability from the city. Construction work should follow an "inside-out" strategy, working from downtown are (data center) towards the outlying areas, and based upon construction crew productivity. As segments are completed, crews will focus on "optical fiber cable drops" to the homes, businesses, and anchor institutions. A separate "drops crew" will follow "construction crew" installing drops from distribution cables, and a separate crew provided by MCN completing premise wiring and turning-up service; this service activation process is dependent upon and managed through the service activation process. Due to size of this project, expect to complete electronics/data center, and last-mile distribution system in 20 weeks, while drops will be an ongoing process until all premises are connected. The deployment schedule assumed a start date of June 2022 and a completion date of June 2025 or a total of 36 months from start to finish, including the time to process all necessary permits.

# DESIGN AND BUILD METHODOLOGY

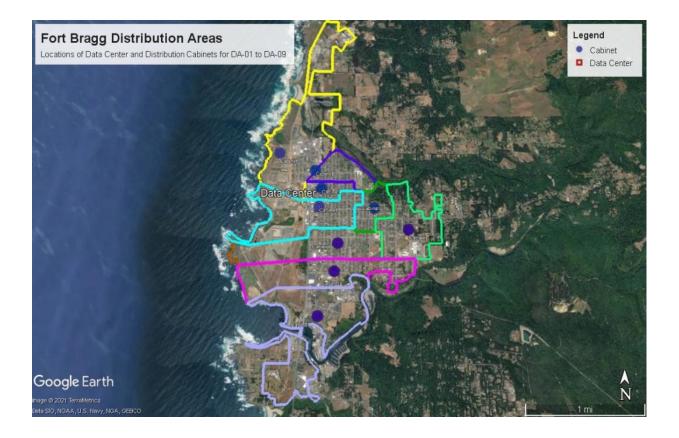
The methodology used by the team was to first gather pertinent information, such as number of residence and business location counts, city limit boundary, street maps, location of main electronics hub (data center), and type of network to be designed (XGS-PON with 32:1 split) for the Outside Plant (OSP) portion. This data was then placed into Google Earth Pro, the design tool used to derive footages. Design engineers then broke the city into manageable and technically feasible parts, titled distribution areas (DA's), see Figure 3.





In total nine passive cabinets would be placed in each of the DA's. These nine DA cabinets sized for potential 864 customers each to facilitate future growth, will have a conduit and fiber back to the Data Center, and will house the 32:1 splitter tray's (1 fiber for every 32 customers) that connect individual locations (res/bus). See Figure 4 – Fort Bragg Distribution Areas and Cabinets.

Figure 4 – City of Fort Bragg Distribution Areas and Cabinets



Once the main design criteria were established, the team designed conduit layout down many of the streets/alleys ensuring ability to serve structures from either side of the street, or via the alley. Cable sizes and footages were factored into the design, as were fiber subscriber terminals (FST), splice locations, and tether locations. From FST a drop conduit and fiber were designed to each structure, see Figure 5 - Sample of Fort Bragg Design. This effort completes the optical lighted path from the DC to each structure.

Figure 5 – City of Fort Bragg Distribution Area Design Sample



# **OSP DESIGN RESULTS**

## **DESIGN AND DISTRIBUTION AREAS:**

The results of the design are listed in the following tables. The design results reveal total number of passive cabinets and their location, footage for conduit and fiber, which include an additional 10% for extra conduit and cable to address the unforeseen and provide fiber cable slack needed for restoration in the event of cable cuts. If a cable is severed, normally through heavy equipment damage, the slack loops allow technicians to pull slack from splice points and then re-splice cable. Additionally, the design included a list of known passive materials such as, passive cabinets, slice enclosures, hand-holes, splitters, fiber service terminals, drop wire and termination. In total the design identified 157,671.80 feet serving 2,654 structures. The structures include multi-business locations as well as Multi-Dwelling Units. Note the difference

between total address locations (potential customer counts) and structures (2,654) is a result of multiple service address at a single address. Once detailed engineering is completed expect to see a more accurate count of footage and material required. For the purpose of this high-level design the amounts should be considered as very accurate for this early phase of the project. See Table 1 – Distribution Areas and Cabinet Sizing and Location.

Distribution Area and Cabinet Sizing and Location Per DA								
Distribution Area Design	Passings	Cabinet Location (V&H Coordinants)						
DA-01	299	39.451748, -123.805705						
DA-02	240	39.445609, -123.803831						
DA-03	223	39.448146, -123.805130						
DA-04	375	39.443062, -123.804286						
DA-05	257	39.442897, -123.794394						
DA-06	380	39.438152, -123.800944						
DA-07	359	39.439956, -123.788732						
DA-08	342	39.434479, -123.801572						
DA-09	179	39.428814, -123.804295						
Totals	2,654							

#### Table 1 – Distribution Area and Cabinet Sizing, and Location Per DA

## **CONDUIT FOOTAGE:**

City of Fort Bragg conduit footage includes the lengths required to place the base infrastructure which includes conduit down streets and alleys, as well as crossings necessary to jump from one side of the street to the other. In total, conduit necessary to complete the design is 157,671.80 feet. The design calls for two 2.5-inch conduits for base infrastructure completion of this project, and a third 2.5-inch conduit for future unknown needs. The unknown needs could be for city needs, as well as wholesale revenue opportunities in the event of regulatory changes requiring city to open its network to other providers, this should be considered as a future revenue stream, but not contemplated in this model. Placing additional conduit provides for the city to preserve surface streets by avoiding disruption to street infrastructure at a later date. See Table 2 – City of Fort Bragg Conduit Footage.

See Table 2 – City of Fort Bragg Conduit Footage

City of Fort Bragg Conduit Footage									
AREA	PARCEL	CENTERLINE	CROSSING	Total Route Footage	% Adjustment for Vertical Drill & Excess	Overall Estimated Fiber Route Footage			
DA 01	299	18,498	1,595	20,093	10%	22,102.30			
DA 02	240	6,929	869	7,798	10%	8,577.80			
DA 03	223	12,185	1,694	13,879	10%	15,266.90			
DA 04	375	10,998	1,808	12,806	10%	14,086.60			
DA 05	257	10,224	878	11,102	10%	12,212.20			
DA 06	380	15,797	1,094	16,891	10%	18,580.10			
DA 07	359	20,209	1,102	21,311	10%	23,442.10			
DA 08	342	19,654	884	20,538	10%	22,591.80			
DA 09	179	18,136	784	18,920	10%	20,812.00			
Total	2,654	132,630	10,708	143,338		157,671.80			

## PASSIVE MATERIALS:

During the placement of conduit there is five different types of passive material placed that complete the infrastructure, they are: 1) Passive Cabinets, 2) Main Service Terminals/Fiber Service Terminals, 3) Hand-Holes, 4) Splice Cases, and 5) Tethers. Hand-Holes are used to connect each structure (home or business location) with the main conduit/fiber infrastructure, typically from 1-4 connections per Hand-Hole. A Tether is the section of cable that do not having physical splice. See Table 3 – City of Fort Bragg Passive Material and Counts.

#### Table 3 – City of Fort Bragg Passive Material and Counts

City of Fort Bragg Passive Materials and Counts										
DA NO.	CABINET LOCATION	PST/CABINET	MST/FST	HH COUNT	SPLICE	TETHER				
DA1	39.451748, -123.805705	864 CABINET	74	123	6	4				
DA2	39.445609, -123.803831	864 CABINET	49	86	2	6				
DA3	39.448146, -123.805130	864 CABINET	80	144	5	8				
DA4	39.443062, -123.804286	864 CABINET	86	176	4	9				
DA5	39.442897, -123.794394	864 CABINET	86	147	2	10				
DA6	39.438152, -123.800944	864 CABINET	115	217	4	10				
DA7	39.439956, -123.788732	864 CABINET	115	203	7	13				
DA8	39.434479, -123.801572	864 CABINET	90	173	4	7				
DA9	39.428814, -123.804295	864 CABINET	35	79	4	7				
		Totals	730	1348	38	74				

## FIBER SIZES:

Once conduit and other passive material is installed, fiber will be pulled into conduit. There are seven different sizes of cable ranging from 24 fiber count to 432 fiber count totaling 157,671.80 feet. All fiber is loose tube, cut to size. As with conduit, the fiber has a 10% increase to facilitate the unforeseen and provide for slack loops for future growth and maintenance issues. See Table 4 – City of Fort Bragg Fiber Size and Length.

City of Fort Bragg Fiber Size and Length							
Fiber Cable Size	Fiber Cable Footage	% Adjustment for Slack	Overall Estimated Fiber Route Footage				
24 Fiber	38,937	10%	42,830.70				
48 Fiber	19,795	10%	21,774.50				
72 Fiber	28,050	10%	30,855.00				
144 Fiber	23,373	10%	25,710.30				
216 Fiber	20,171	10%	22,188.10				
288 Fiber	10,406	10%	11,446.60				
432 Fiber	2,606	10%	2,866.60				
Total Ft.	143,338		157,671.80				

Table 4 – City of Fort Bragg Fiber Size and Length

The total estimate for the outside plant infrastructure, which includes detailed engineering labor, construction material, and construction labor cost totals \$6,980,474.53; \$44.27 per foot/\$2630.17 per 2654 passing's. The breakdown of labor and material cost is depicted in Table 5 - Outside Plant Infrastructure Estimate below.

Table 5 Outside Plant Infrastructure estimate

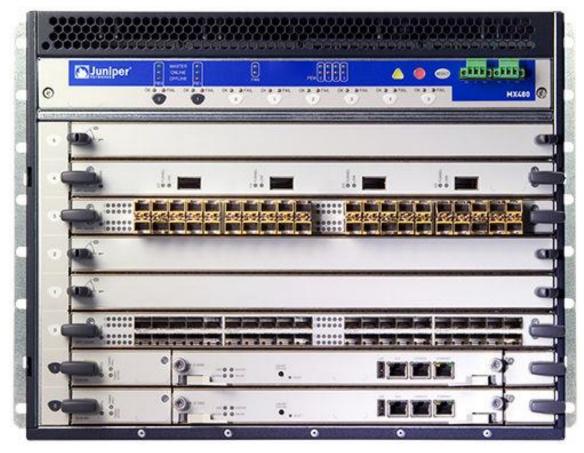
Fort Bragg Last-Mile FTTH Network Design-Build Cost Estimate			OSP Network Construction Material Cost		OSP Network Construction Labor Cost		C I Eng	Overall DSP FTTP Network gineering & nstruction Cost
Total	\$ 260	0,158.47	\$1,08	37,892.22	\$	5,632,424.84	\$ 6,	,980,475.53
Total Avg Cost / Foot		0,158.47 .65	\$1,08 \$	37,892.22 6.90	\$ \$	5,632,424.84 35.72	\$6, \$	,980,475.53 44.27

# **ELECTRONICS DESIGN**

The electronics design incorporates three functions: 1) Core Routing, 2) Optical Line Termination (OLT), and 3) Optical Network Termination (ONT). Each of these functions provide the lighted path from the end-user to the Internet.

# CORE ROUTING:

For this design, the team has specified Juniper core electronics equipment. Juniper has a several product lines and is a leader in core electronics space within the industry. The function of the core router is to take the aggregated signal from the OLT, provide IP addresses, and broadband gateway protocol (BGP), which allows for signals to be divided to one or more backhaul providers. Typically, BGP used to separate traffic to save backhaul by peering with Netflix, Amazon, Google. MCN has many years of experience using this product line has they currently use in their network and have approved the use of Juniper. See figure 6 for a view of the Juniper equipment.

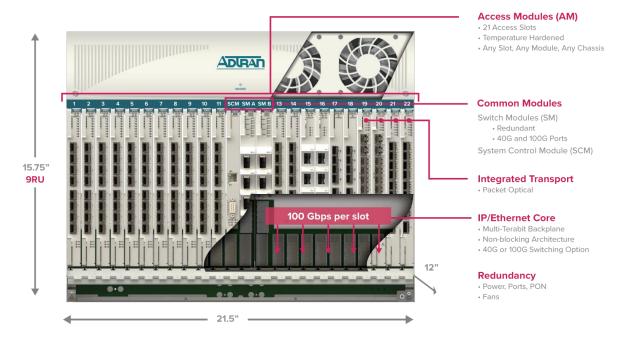


### Figure 6 – Juniper Router

# **OPTICAL LINE TERMINATION:**

The team has specified ADTRAN TA-5000 equipment as the provider for Optical Line Termination (OLT). The OLT is the electronics that serve end-user by providing light from Data Center through the fiber to the end-user location. The OLT provides the light at a 32:1 split ratio at up to 10Gbps speed per customer. The OLT also provides the service activation and port assignment for customer records and information systems. MCN has many years of experience

using this product line has they currently use in their network and have approved the use of ADTRAN. See Figure 7 for ADTRAN TA-5000 Equipment.



#### Figure 7 – ADTRAN TA-5000 Equipment

#### **OPTICAL NETWORK TERMINATION:**

The team has specified ADTRAN ONT's to be used at the end-user location. These devices turn the light received from the OLT into electrical signals to be used in the home. The ONT's come in various types/styles and will be decided during detail engineering and negotiations with MCN. MCN will have responsibility to install the ONT during end-user installation. Some ONT's come equipped with built in residential gateway functionality, which provides Wi-Fi 6, the latest in-home wireless specification.

Included below are both the indoor and outdoor versions of the ADTRAN ONT's and Residential Gateway's for Wi-Fi 6 throughout the home/business. See Figure 8 – Optical Network Terminal devices







## DATA CENTER:

The data center will require remodeling to support the electronics equipment that provide the Internet service. The location contemplated is at 416 N. Franklin St. in the current women's restroom area. Remodeling will consist of removal of all plumbing, and restroom stalls. Once removed it is recommended this location be designed for level 4 earthquake bracing, which will include 2x6 boards anchored to the walls, with data center ironwork and equipment relay racks installed and adequately anchored to the floor. A 4-ohm or less ground bar will need to be connected to the building master ground bar (may already exist), and fire suppression equipment (not water sprinklers) will be installed. Lastly, there will be a need to install several conduit entrance paths to facilitate outside fiber cables, both distribution and backhaul

conduits. An electrical panel with breakers will be placed in the equipment room for A/C distribution. The existing backup generator is more than sufficient to provide power, it is recommended a transfer switch between main A/C and electronics power supply be installed. For the purpose of this study, we have estimated \$100,000.00 for the cost to remodel and prepare the data center for electronics and supporting equipment. Actual cost for the data center to be determined following detailed project engineering. See Figure 9 for proposed data center location at 416 Franklin Street.



Figure 9 – Data Center Locations

The total estimate for the core network, optical electronics, and data center totals \$738,122.57; The average cost per foot is \$6.54, \$257.73 per 4000 subs, and is depicted in Table 6 -Core Network, Optical Electronics, and Data Center Prep Estimate below.

Table 6 - Core Network, Optical Electronics, and Data Center Prep Estimate

Fort Bragg Core Router Network, Data Center Prep, and OLT XGS-PON Network Design-Build Cost Estimate	Core Router		ISP Data Center Prep		ISP OLT XGS-PON Ports & Lasers		Overall ISP Core Router Network, Data Center Prep, and OLT XGS- PON Design- Build Estimate	
Total	\$	457,806.40	\$	280,316.17	\$2	292,797.99	\$	1,030,920.56
Avg Cost / Foot	\$	2.90	\$	1.78	\$	1.86	\$	6.54
Avg Cost / Passing	\$	114.45	\$	70.08	\$	73.20	\$	257.73

## SUBSCRIBER ACQUISITION (DROPS AND CPE EQUIPMENT):

Material and labor costs for placement of double ended connectorized drop from MST port in Pedestal/Flower Pot to CPE Network Interface Drop (NID) via underground placement at depth greater than or equal to 12 inches and install through up to 4ft outdoor conduit to outdoor ONT (Outdoor Network Termination); conduit is used to protect fiber from yard tools. Drop includes 2 ft slack coil at each end, restoration of route path to at least previous condition. Includes up to 50ft placement under driveway, sidewalk, or other landscaping, concrete or asphalt surfaces. The total estimate for subscriber acquisition is \$3,789,680; \$24 per foot/\$947.42 per 4000 subs. See Table 7 -Subscriber Acquisition Cost Estimate.

Fort Bragg Subscriber Acquisition Cost Estimate	Ac Ma	ubscriber cquisition terial Cost op & CPE)	Subscriber Acquisition Labor Cost (Drop & CPE)		(D	Overall Subscriber Acquisition rop and CPE) Overall Cost	
Total		2,309,680	\$	1,480,000.00	\$	3,789,680.00	
Avg Cost / Foot	\$	14.65	\$	9.39	\$	24.04	
Avg Cost / Passing	\$	577.42	\$	370.00	\$	947.42	

## **PROJECT MANAGEMENT:**

A project of this size will require a project management office (PMO) to manage the undertaking. With that said, the city may have the existing resources to manage this project; extending the existing resources would be to your advantage as the people and processes exist, it is just a matter of adding workload to your city team. For the purpose of this analysis, we are including the cost of a separate PMO entity. The roles within this entity are project managers, construction inspectors, and accounting; typically, there is a legal component to this project, but we are assuming all contracts involved would be administered by current city staff.

Assumptions - PM hired full-time for 3years; Inspectors and Accountants employees stay until completion of base infrastructure, 25 weeks estimated. Have extended 5 additional weeks to close-out initial base infrastructure paperwork, completion of drawings, and recording of

assets. At completion of base infrastructure, assumption is city can take over the day-to-day operation of overseeing drop and ONT installs (5.5 per day). The dollars for installs are in capital budget; as an option, you can pay MCN for this work, hire new city staff, or leverage existing staff. Would recommend city consider hiring the PM as a fulltime employee during the construction and to manage the MCN service provider contract; PM would be MCN's single point of contact within the city. See Table 8 - PMP Office.

### Table 8 - PMO Office

PMO Office	Annual Salary		Hourly Rate		Weekly rate		Year 1 (25 weeks)		Year 2 (50 weeks)		Year 3 (50 weeks)		Total	
Project Manager	\$	100,000.00	\$	48.08	\$	1,923.08	\$	48,076.92	\$	96,153.85	\$	96,153.85	\$	240,384.62
Inspector 1	\$	90,000.00	\$	43.27	\$	1,730.77	\$	43,269.23					\$	43,269.23
Inspector 2	\$	90,000.00	\$	43.27	\$	1,730.77	\$	43,269.23					\$	43,269.23
Accounting	\$	60,000.00	\$	28.85	\$	1,153.85	\$	28,846.15					\$	28,846.15
	\$	340,000.00					\$	163,461.54	\$	96,153.85	\$	96,153.85	\$	355,769.23

#### Total Fort Bragg Design and Build Estimate:

The total costs for the entire network infrastructure at 100% take rate (full utility model) which includes all three components for underground fiber/conduit and passive materials, Data Center prep, Core electronics, XGS-PON Optical Line Termination, Drops, and ONT is listed in Table 9.

Table 9 – Total Network Cost

Fort Bragg Last-Mile FTTH Network Design-Build Estimated Cost	Overall OSP FTTP Network Engineering & Construction Estimated Cost	Overall ISP Core Router Network, Data Center Prep, and OLT XGS- PON Design- Build Estimated Cost	Overall Subscriber Acquisition (Drop and CPE) Overall Estimated Cost	Project Management Office (PMO) Estimated Cost	Overall Total Network Estimated Cost
Total	\$ 6,980,475.53	\$ 1,030,920.56	\$ 3,789,680.00	\$ 355,769.23	\$12,156,845.32
Avg Cost / Foot	\$ 44.27	\$ 6.54	\$ 24.04	\$ 2.26	\$ 77.10
Avg Cost / Passing	\$ 2,630.17	\$ 257.73	\$ 947.42	\$ 88.94	\$ 3,039.21

Table 10 below shows the annual spend for 100% take rate and includes FTTP infrastructure, electronics and data center, and drops/CPE. This would be the entire amount at 100% of city build.

Table 10 – 3 Year Estimated Cost at 100% Take Rate

Overall Total Network Cost	Overall Total Year 1 Estimated Costs	Overall Total Year 2 Estimated Costs	Overall Total Year 3 Estimated Costs
\$12,156,845.32	\$ 9,630,391.98	\$ 1,263,226.67	\$1,263,226.67
\$12,156,845.32 \$77.10	\$ 9,630,391.98	\$ 1,263,226.67	\$1,263,226.67

# CONSTRUCTION SCHEDULE

The construction schedule at this juncture should remain open until a final decision has been made as well as how much annually the city decides to spend on the infrastructure. For example, if the city wants to delay build over several years the schedule would be extended.

For the purpose of providing a timeline to the city on the amount of time it will take to build the base infrastructure, this study indicates 20 weeks using a two-crew approach; this approach is standard for most contractors. The timeline is based upon the number of available workdays in a week, number of crews, and the production footage per day in terms of feet of conduit/cable placed (800 ft.).

Other factors that impact the schedule are weather conditions, traffic control, material and labor availability. As a note to consider, under current economic conditions, material and labor are a concern, as is the amount of grant monies the current state and federal leaders are considering is enormous. Additionally, material and labor shortages are impacting telecommunications industry as a result of the pandemic and the mount of projects around the country. The recommendation is for the city to decide and then get into material/labor ques as soon as possible. The industry faced this challenge back in 2010 during the ARRA Projects, but quickly increased factory output and ended up being managed with slight project delays. See Table 10 – Construction Schedule (estimated).

OSP Construction Schedule (estimated)						
Allowed Workdays Per Week	UG Production Per Crew Per Week	Qty of UG Crews	Overall Weekly UG Production	Estimated Construction Weeks		
5	800	2	8000	20		

# NETWORK OPERATOR/SERVICE PROVIDER DEFINED

MCN is being considered for the role of service provider. MCN has a long relationship with the City of Fort Bragg and surrounding areas. The Mendocino Community Network (MCN) is a business owned and operated by the Mendocino Unified School District. MCN mission is to provide high-quality Internet services to the school district, customers, and the communities they serve. MCN has been providing internet in the community for over 25 years. In the early

days MCN provided dialup to over 8000 customers in Mendocino County and across the country. Currently MCN offers DSL internet and POTS (plain old telephone service) service to over 1000 customers in Fort Bragg as well as Fixed Wireless and VOIP telephone services. MCN registers and hosts over 1000 domains, websites and more than 4000 email accounts. MCN currently has eight full time employees and one part time employee.

MCN was created from the school district to provide much needed Internet service to students. Since its beginning, MCN has significantly expanded service locations, and offers a wide range of services beyond basic Internet connectivity. MCN offers affordable speed and pricing tiers for Internet, and voice services.

During this analysis MCN, specifically Sage Stathe, who we consider fully qualified, was asked to participate with providing background information necessary to determine if they are a valuable resource to facilitate City digital infrastructure plan and rollout. Below is a list of inputs received from MCN:

- Ability to scale resources MCN expects some incremental increases and will depend on the take rate, and speed of construction.
- Detailed plan on service activation and service assurance functions MCN currently offers regular tech support during 9AM-6PM Monday through Friday. They have a technician on call 24-7 that can start trouble tickets, trouble shoot Internet and voice issues, and forward calls to secondary technical teams as needed. MCN an internal tracking system for monitoring orders, trouble tickets and dispatches. The Manager and Insider Operations Manager handle sales and marketing (technicians in the field are salespeople by association). MCN promotes via radio, newspaper, social media, MTA Bus Ad, Our website, and MCN Email Mailing List.
- **Backhaul** MCN currently provides backhaul services to their existing customer, have plenty of experience to provide backhaul to city network.
- Outside Plant Design (OSP) and Electronics Equipment MCN has agreed to the design criteria of a 32:1 fiber split, as well as using Juniper Routers with dual 40 Gbps uplinks, and ADTRAN T5000 Optical Line Terminal product configured with XGSPON (10 Gbps).
- **Data Center Location** MCN has agreed to all electronic equipment to be located at city office at 416 N. Franklin St. MCN will require complete access to the network equipment provided by the city in order to serve customers.
- IP Addresses MCN has a /32 of IPv6, more than sufficient for this project. MCN currently has a /20 IPv4 addresses and have adequate addresses to provide Network Address Translation (NAT) of public IP's and static IP's addresses for customers who request them

(currently using 86 static IP's in all of Fort Bragg). MCN does not have enough IPv4 to assign a public IP to every home; this would only come into play if we were designing and all active Ethernet network, of which we are not proposing this type of design.

- MCN Service Offering Basic Internet at three speed/price tiers (to be negotiated), Video, and Voice services. MCN confirmed the ADTRAN ONT plus Wi-Fi 6 Wireless Gateway, four ethernet ports, with two Voice ports located at the home/business will support their offerings.
- Inside Wire MCN will facilitate service activation/assurance from the ONT demark on the side of the home and will facilitate all in home/business wiring necessary to make operational. The city will be responsible for OSP fiber maintenance, underground fiber restoration, cable locates, and Data Center maintenance and utilities, of which some of these functions can be provided by MCN.

# **PRO-FORMA**

The pro-forma will identify three-line items for revenue: 1) Residential Fee, and 2) Commercial Fee, and Large Commercial Fee. As project evolves, there could be other forms of revenue such as MCN providing services to Cell Providers, and WISP's. In addition to the revenue, there will be expense line items for network infrastructure management; costs the city will incur as the network owner. Pro-forma also shows the capex required for the project and is identified into three parts parts: 1) initial infrastructure placement (fiber and electronics), 2) ongoing drop and CPE placement, and 3) electronics refresh in year 8 (electronics require a refresh every eight years). The city will need to decide if they want to deploy a 100% connectivity (utility model) to

every premise, or not; for the purpose of this study, we are showing a conservative 60% take rate.

It is up to the city to determine how they fund this network, this can be accomplished with cash, or debt thought the use of bonds, available grant funds (state and or federal), or combination of all three. The model shows an example of debt for your analysis. When the city moves forward, debt structure will need to be determined.

### **REVENUE ASSUMPTIONS (60% TAKE RATE)**

Revenue will be received from MCN who will provide city a per customer, per type of service fee for the use of the infrastructure. The amount of fee is to be agreed upon between city and MCN through negotiations process contemplating infrastructure cost, annual maintenance, and oversight cost. The result must balance both city and MCN's needs. For the city, you will require fee's that provides for an acceptable fee that covers all expenses, and debt at a minimum. MCN needs to be able to sustain their business with some level of profit. For the purpose of this analysis a monthly fee is as follows: 1) Residential \$50.00 for 1 Gbps, Small Commercial \$150.00 for 1 Gbps, and Large Commercial \$230.00 for 5-10 Gbps; all speed and price tiers to be determined between city and MCN.

#### Annual revenue at steady state in year-4 is \$2,260,020

#### EXPENSE ASSUMPTIONS (60% TAKE RATE)

The city, as the network owner will have minimal OG's and operating expenses for the day-today business. The expenses will be consistent with the level of involvement the city desires. The city can choose to outsource much of the responsibility to MCN or others as desired. At a minimum the recommendation is to leverage existing staff to oversee the business. Since the actual service will be handled by MCN (service Provider), the city should have a broadband liaison to oversee monthly results both in through a service and financial audit process. Additionally, the recommendation is for the city to utilize existing staff and heavy equipment for infrastructure damage restoration.

The model contemplates COG's and Operating Expenses. There are four categories in COG's – 1) Electricity Cost for Data Center, 2) Cable Locates, 3) OSP Maintenance, and 4) Network Owner Broadband Manager. The assumption is to hire Project Manager during the build, while transitioning to the role of Network Owner Broadband Manager following initial build beginning in year four. Operating Expenses consist of two categories – 1) Internet Expense Savings, and 2) Professional Fees.

#### COGS:

- 1) Annual Electricity \$6,000
- 2) Annual Cable Locates \$7,200
- 3) Annual OSP Maintenance \$12,000
- 4) Annual Network Owner Broadband Manager \$120,000

#### Annual COG's at steady state in year-5 is \$145,200

#### **Operating Expense:**

- 1) Annual Internet Savings (\$6,000) Note: assumed city Internet/Telephone to be free
- 2) Annual Professional Fee's \$12,000

#### Gross Profit at steady state in year-5 is \$2,174,820

## **10-YEAR INCOME STATEMENT:**

CITY of FORT BRAGG						
PRO FORMA INCOME STATEMENTS, ANNUAL						
60% Take Rate Model						
	Y1	Y2	Y3	Y4	Y5	Y10
Revenue						
Fiber asset fee (speed and price tbd))	225,750	636,300	1,029,600	1,132,200	1,132,200	1,132,20
Fiber asset fee (bus. speed and price tbd)	451,500	1,067,400	1,101,600	1,101,600	1,101,600	1,101,600
10 Gbps (Large Businesses/gamers)	20,114	26,220	26,220	26,220	26,220	26,22
- Static IP						
- Multi-Gig Routing	-	-	-	-	-	-
- Whole Home Wi-Fi	-	-	-	-	-	-
- Other					-	
Total Revenue	697,364	1,729,920	2,157,420	2,260,020	2,260,020	2,260,020
	057,501	1,725,520	2,207,120	2,200,020	2,200,020	2,200,020
Cost of Goods Sold						
- Telecommunications Backhaul	-	-	-	-	-	-
- Net Fabric	-	-	-	-	-	-
- Alianza VolP	-	-	-	-	-	-
- Electricity at 416 Franklin St.	6,000	6,000	6,000	6,000	6,000	6,000
- Cable Locates	7,200	7,200	7,200	7,200	7,200	7,200
- OSP Maintenance	12,000	12,000	12,000	12,000	12,000	12,000
- Customer/Technical Support	-	-	-	-	-	-
- Installation & Repair Technicians	-	-	-	-	-	-
- Network Technicians	-	-	-	-	-	-
Project Manager (first 3 years Capitilized)	-	-	-	60,000	120,000	120,000
- Technician Vehicle Expense	_	_	-	-		,
- Billing and Back Office Systems	-	-	-	-	-	-
- Developer or Mineral Rights Fee	-	_	-	-	_	-
Total Cost of Goods Sold	25,200	25,200	25.200	85,200	145,200	145,200
	23,200	25,200	23,200	03,200	113,200	110,200
Gross Profit	672,164	1,704,720	2,132,220	2,174,820	2,114,820	2,114,820
Operating Expenses						
<ul> <li>Advertising and Promotion</li> </ul>	-	-	-	-	-	-
- Auto Expenses	-	-	-	-	-	-
- Rent	-	-	-	-	-	-
- Telephone	-	-	-	-	-	-
- Internet (free svc. from MCN)	(72,000)	(72,000)	(72,000)	(72,000)	(72,000)	(72,000
- Office Supplies	-	-	-	-	-	-
- Professional Fees	12,000	12,000	12,000	12,000	12,000	12,000
- Miscellaneous	-	-	-	-	-	-
Total Expenses	(60,000)	(60,000)	(60,000)	(60,000)	(60,000)	(60,000
Operating Profit	732,164	1,764,720	2,192,220	2,234,820	2,174,820	2,174,820
Interest	294,932	299,418	289,312	274,727	261,807	190,968
Taxes	-	-	-	-	-	-
Depreciation and Amortization	694,548	875,008	875,008	875,008	875,008	452,59
- Subtotal	989,480	1,174,426	1,164,320	1,149,735	1,136,815	643,563
Pre-tax Profit (Loss)	(257,316)	590,294	1,027,900	1,085,085	1,038,005	1,531,25
	()		_,,	_,,	_,,	1,551,251
EBITDA	732,164	1,764,720	2,192,220	2,234,820	2,174,820	2,174,820

### **10-YEAR CASH FLOW STATEMENT:**

CITY of FORT BRAGG						
PRO FORMA CASH FLOW STATEMENTS, ANNUAL						
60% Take Rate Model						
	Y1	Y2	Y3	Y4	Y5	Y10
Receipts						
- Collections	697,364	1,729,920	2,157,420	2,260,020	2,260,020	2,260,020
- Investment	-	-	-	-	-	-
- Loans	10,000,000	400,000	-	-	-	-
Total Receipts	10,697,364	2,129,920	2,157,420	2,260,020	2,260,020	2,260,020
Disbursements						
- Cost of Goods Sold	25,200	25,200	25,200	85,200	145,200	145,200
- Advertising and Promotion	-	-	-	-	-	-
- Auto Expenses	-	-	-	-	-	-
- Rent	-	-	-	-	-	-
- Telephone	-	-	-	-	-	-
- Internet (free svc. from MCN)	(66,000)	(72,000)	(72,000)	(72,000)	(72,000)	(72,000
- Office Supplies	-	-	-	-	-	-
- Professional Fees	11,000	12,000	12,000	12,000	12,000	12,000
- Miscellaneous	-	-	-	-	-	-
- Franchise Taxes/Other Taxes	-	-	-	-	-	-
- Interest	294,932	299,418	287,260	274,727	261,807	190,968
- Principal Repayment	370,585	395,186	407,344	419,877	432,797	503,637
- Capital Expenditures	9,630,392	1,263,223	-	-	-	-
- Distributions	-	-	-	-	-	-
- Working Capital	-	-	-	-	-	-
Total Disbursements	10,266,109	1,923,027	659,804	719,804	779,804	779,804
Net Cash Flow	431,254	206,893	1,497,616	1,540,216	1,480,216	1,480,216
Beginning Balance	-	431,254	638,148	2,135,763	3,675,979	10,476,574
Ending Balance	431,254	638,148	2,135,763	3,675,979	5,156,195	11,956,790

## **10-YEAR BALANCE SHEET STATEMENT**

CITY of FORT BRAGG						
PRO FORMA BALANCE SHEET STATEM	IENTS, ANNUAL					
60% Take Rate Model						
	Y1	Y2	Y3	Y4	Y5	Y10
Current Assets						
- Cash	431,254	638.148	2,135,763	3,675,979	5,156,195	11,956,790
- Accounts Receivable	-		-	-	-	
- Prepaids	-	-	-	-	-	-
- Other Current Assets	-		-	-	-	-
Total Current Assets	431,254	638,148	2,135,763	3,675,979	5,156,195	11,956,790
Fixed Assets						
- Capital Equipment	9,630,392	10,893,615	10,893,615	10,893,615	10,893,615	11,494,099
<ul> <li>Accumulated Depreciation</li> </ul>	(694,548)	(1,569,555)	(2,444,563)	(3,319,571)	(4,194,579)	(7,482,843
Total Fixed Assets	8,935,844	9,324,059	8,449,051	7,574,043	6,699,035	4,011,256
Total Assets	9,367,099	9,962,207	10,584,815	11,250,022	11,855,230	15,968,046
Current Liabilities						
- Accounts Payable	(5,000)	(5,000)	(5,000)	(5,000)	(5,000)	(5,000
- Line of Credit	-	-	-	-	-	-
<ul> <li>Other Current Liabilities</li> </ul>	-	-	-	-	-	-
Total Current Liabilities	(5,000)	(5,000)	(5,000)	(5,000)	(5,000)	(5,000
Long-Term Liabilities						
- Loans Payable	9,629,415	9,634,228	9,226,884	8,807,007	8,374,210	6,002,015
Total Long-Term Liabilities	9,629,415	9,634,228	9,226,884	8,807,007	8,374,210	6,002,015
					-	-
Total Liabilities	9,624,415	9,629,228	9,221,884	8,802,007	8,369,210	5,997,015
Equity						
- Paid-In Capital	-	-	-	-	-	-
- Distibutions	-	-	-	-	-	-
- Retained Earnings	(257,316)	332,978	1,362,930	2,448,015	3,486,020	9,971,031
Total Equity	(257,316)	332,978	1,362,930	2,448,015	3,486,020	9,971,031
Liabilities + Equity	9,367,099	9,962,207	10,584,815	11,250,022	11,855,230	15,968,046

Thank you for the support and assistance we have received from individuals and entities across Fort Bragg in developing this project to further implement *City of Fort Bragg Digital Infrastructure Plan: 2021-2025.* 

# **APPENDIX**

RECOMMENDED VENDORS TO USE FOLLOWING DECISION TO PROCEED:

Walker & Associates for electronics equipment, OSP material, data center Prep. Using a single vendor that supports the entire infrastructure is vital, if not you will have to establish vendor relationships with many different material providers.

ADTRAN is available through Walker & Associates, but suggest you establish a direct relationship so you can stay current on technologies, equipment hardware and software releases.; Walker & Associates will arrange for this automatically.

PalniES provided the OSP design and recommend you use them for the detailed design as this will save OSP detailed engineering charges as PalniES already has most of the design data. PalniES is a full service OSP design and engineering company capable of taking your project from cradle to grave.

#### **FUTURE TECHNOLOGIES**

There are several new technologies available now to allow you to better serve Fort Bragg; this study provides the estimated cost of the infrastructure to place underground fiber and electronics throughout the city. When and if you progress with this project, I encourage you to look at some of these technologies in your initial deployment; they include the following:

New light pole technologies that allow for multiple uses, such as 5G/LTE, security cameras, digital signage, and several sensers (air quality, motion, soil)

Electrical vehicle charging stations will most likely be required by government between now and 2035 per mandates. Vehicle charging stations offer more than just a battery recharge, they are now SMART devices that enable credit card usage, marketing signage boards, wayfinding maps, and more.

Public Wi-Fi is another technology you should consider at all public gathering points (parks, sports fields, beaches, marinas). There are several manufactures for public Wi-Fi equipment but recommend Juniper Mist product for it low cost, and ease of operation.

Venue Applications allows for the city or Chamber to better represent their members. A typical venue app is great for tourism as app allows for wayfinding, on-line access to stores and restaurants, purchase theater tickets, and more.

Digital signage or smart boards are the latest in technology for historical downtown areas, parks, hiking trails, etc.... these digital signage boards not only provide vital information, but also serve as a revenue stream by selling marketing and marketing data collected from the

public. Typical digital signage boards are QR Code driven, meaning users can scan the board and take whatever information they obtained with them as they tour the area.

#### **RESPONSIBILITY MATRIX**

The following responsibility matrix provides an example of how the city and MCN identify functions necessary to own and operate the network. As the project progresses, this matrix can provide the roadmap for negotiations between parties, which ultimately can be used in contractual agreements between city and MCN.

Customer Care Center (Public Office)	City	MCN	Notes:
Hire GM		X	City should participate
lirie support staff	-	X	
Service offering packages	S	P	City should participate to ensure constentuates are satisfied politically
Process Flows Ferms and Conditions Aggreement for service	S	P	City should participate as some issues could involve infrastructure
Anaging Deposits	S	<u>Р</u> Х	City should participate to ensure constentuates are satisfied politically
Billing intervals/mailing, messaging on bills		X	
Daily cash drawers		X	
Office Space		X	City should participate
Building Access/Alarms		X	
Dispatch	S	Р	City to have a role for major infrastructure repair
Order Intervals - Scheduling	S	P	City may have a role for service activation/assurance
Bank accounts		X	
Deposits		X	
OSP Operations			
Servcie Installation	-	X	
firing Staff	-	X	
/ehicles	-	X P	City will suverse a fiber records management system. MCN to keep surrent
ool Tracking/Management system echnician cell phones, laptops, HH devices	<u>S</u>	X	City will purchase a fiber records management system, MCN to keep current
Fiber Splicing tools (Fusion Splicer, Cleaver, OTDR, Power	-	^	
Meter)	-	x	City may hire MCN to manage all splicing needs
nventory Tracking Process	-	X	May involve city, discuss with MCN/ City; city should have limited cable/material on hand
Fechnician Training	-	X	
echnician time reporting	-	X	
Plant maintenance	Р	S	This is all infrastructure related
Plant records keeping	-	-	need to discusshow to keep fiber strand inventory
Safety program for OSP/Construction	X	X	A high priority for both parties as they will jointly retore infrastructure
echnician time reporting	S	Р	City to folow current processes
After hours technical support for OSP		×	
fter hours call out process	S	P	City to be in loop in the event infrastrucure is damaged
Cut UG cable construction support	P	S	City to use heavy equipment to expose damaged cable, MCN to restore service (splicing)
Inderground Service Alert	P	S	City could hire MCN for this function
A Acceptance		X	
Records Retention	S	P	Line extention related, need to discuss
Dircuit Assignment	-	×	
Provisioning	-	X	
Change Order Requests Process	S	P	May involve city, discuss with MCN/ City
Change Order Scope/Pricing	S	Р	May involve city, discuss with MCN/ City
Change Order Approval	Р	S	May involve city, discuss with MCN/ City
Facilities Moves (Road moves/widening, pole moves, pole			
eplacements	S	P	May involve city, discuss with MCN/ City
Service reporting	-	X	May involve city, discuss with MCN/ City
Network Operations			
letwork Assurance			
letwork Monitoring	-	X	
Capacity Management (Backhaul)	-	X	
ault Isolation	S	P	
SLA Performance Tracking/Reporting	S	P	
Vetwork Dispatch Vetwork Repair (including the network side of the ONT)	-	X	Non Infrastrucure related
Service Assurance (Customer)		^	
Service Assurance (Customer)	-	X	
Capacity Management for downstream Internet Connections	-	×	***
letwork Fault Isolation	-	X	
SLA Performance Tracking/Reporting	-	X	
Service Dispatch	-	X	
Service Repair	-	X	
nd-user Repair (Home/MDU/Commercial)	-	X	
ier 1 Help Desk/ Call center	-	X	
letwork Activation			
letwork Service Orders	-	×	
AC Center	-	X	
ier 2 Help Desk (Network Device Management)	-	X	
nfrastructure Management			
Itility Joint Pole Attachments	X		Should be all Underground; however, there may be line extentions, need to discuss
Cable Locating Association Admin Dutside Plant Break / fix	P	S S	City may already be involved in utility locates and should be responsible for infrastructure
Break / fix splicing	P	<u>S</u>	MCN could be hired for splicing since they already have capabilities
Fixed Wireless Tower Attachments	P	S	Need to discuss
	-	<u>_</u>	
Data Center			
		S	Need to discuss
ccess Control	P		
Access Control Monitoring and Managing Environmentals	P		
		S S	



# Fort Bragg Digital Infrastructure Plan 2021 – 2025

City Council Meeting September 20, 2021





# Purpose of the Study

- Explore possibility of a City-owned Broadband Utility
- Provide affordable and reliable connectivity to Fort Bragg residents and businesses
- Provide a plan to be used as Request for Proposal (RFP) for design and construction, if pursued
- Evaluate the financial cost and feasability of a City of Fort Bragg Utility

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# **Proposed Project**

- Funding & construction of fiber-to-the-premise network
- Underground conduit & fiber installation
- ♦ Speeds up to 10Gbps
- Internet backhaul by AT&T to connect users to the world-wide web – only provider at this time
- Mendocino Community Network (MCN) serve as service provider

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City owns the infrastructure

3

# **Network Description**

- ◊ Central Data Center at 416 N. Franklin Street
- 9 distribution cabinets through out City serving as aggregate fiber locations to businesses and homes
- End-user conduit and fiber drop
- ◊ 158k feet of fiber with 10% excess slack
- Service provider will extend optical network termination device at the home or business

# **Operating Model**

- 3,100 Residential Customers/900 Businesses
- ◊ Goal 100% take rate financial model built on 60%
- City-owned infrastructure operated and serviced by MCN
- Partnership with Mendocino Community Networks (MCN)
  - MCN is owned and operated by the Mendocino Unified School District
  - Offers internet services along Mendocino Coast, including service to Fort Bragg businesses and residents
    - Approximately 1/4 of Potential Fort Bragg Customers



Last-Mile	Network Engineering & Construction	Data Center & Electronics	Subscriber Acquisition Drop & CPE	Project Manager	Total Network Cost
Total	\$7 Million	\$1 Million	\$3.8 Million	\$356k	\$12.2 Million
Avg. Cost/Foot	\$44.27	\$6.54	\$24.04	\$2.26	\$77.10
Avg. Cost/Passing	\$2,630.17	\$257.73	\$947.42	\$88.94	\$3,039.21

# Cash Flow Capital Investment



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# **Capital Funding Sources**

Sources	Year 1 FY 2022-23	Year 1 FY 2023-24	Year 1 FY 2024-25	Total Capital
ARP Funds	\$1,744,000	\$0	\$0	\$1,744,000
Main. & Facilities	100,000	0	0	100,000
GF Project Management	165,000	100,000	100,000	365,000
City Sources	2,009,000	100,000	100,000	2,209,000
Grants	4,000,000	0	0	4,000,000
Debt Financing	5,947,845	0	0	5,947,845
Outside Sources	9,947,845	0	0	9,947,845
Total Sources	\$11,956,845	\$100,000	\$100,000	\$12,156,845

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# **Estimated Cash Flow**

	Year 1 FY 2022-23	Year 2 FY 2023-24	Year 3 FY 2024-25	Year 4 FY 2025-26
Net Revenue to				
City	292,866	705,888	876,888	893,928
Less Debt				
Service	364,113	728,226	728,226	728,226
Net Revenue	(71,247)	(22,338)	148,662	165,702

Invest in Broadband?

1. Should the City invest resources in Grant Opportunities?

2. Should staff work out operating details with MCN? 3. Should the City contract out for detailed design & entitlement work?

# **Questions?**



₩ W City Council,

I reviewed the Fort Bragg Digital Infrastructure Plan 2021-2025 on tonight's agenda and I only want to say how impressed I am with the detail and quality of this report. This is an exciting project. I think grant funding is coming up as well that could help pay for some of the implementation. Keep up the good work!

Regards,

--Jacob





Text File File Number: 21-501 416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Agenda Date: 9/20/2021

Version: 1

Status: Closed Session

In Control: Special City Council

File Type: Report

Agenda Number: 4A.

CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION: Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Government Code Section 54956.9: One (1) Case





Text File File Number: 21-502 416 N Franklin Street Fort Bragg, CA 95437 Phone: (707) 961-2823 Fax: (707) 961-2802

Agenda Date: 9/20/2021

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CONFERENCE WITH LEGAL COUNSEL - EXISTING LITIGATION pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9; Name of Case: Kashiwada v. City of Fort Bragg