# **2024 SFBTA**

# The Fixed Income Group at RJ O'Brien

John Coleman, SVP Managing Director





# Hedge Dexterity with Transitioning Fed

• Curve, Rates & the history lesson of the Boy King, c. 1990-94



→ Curve location and basis become super important
→ Knowledge of hedge alts & carry becomes hypercritical



# Front End Traders– Hedge Vehicles

- 1mo Fed Funds (out to about 2yrs)
- 1mo SOFR futures (out to 1y+)
- 3mo T-Bill futures (out to 2y)
- 3mo SOFR futures (out to 7y)
- Treas: 2y, 3y, 5y



# Front End(cont.) Risk Stacking Out the Strip

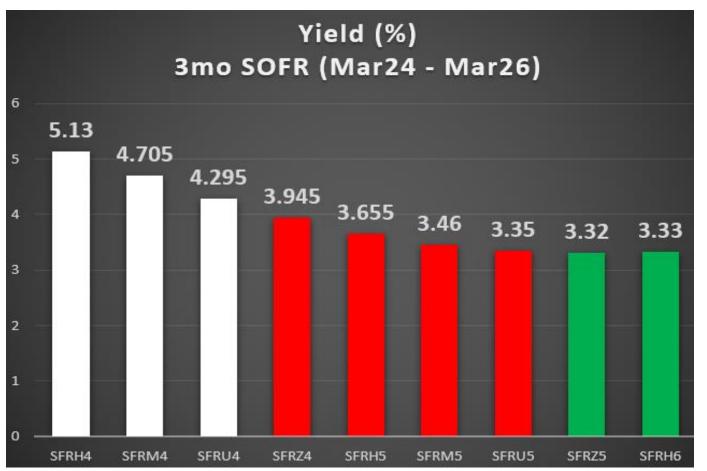
Hedge a 2yr PAC (or any hard final short bond)

Could use a 2y swap futures or 2y T (fut. or cash)

#### OR

Place 12.5% of risk in each of first 8 quarterly SOFR futures

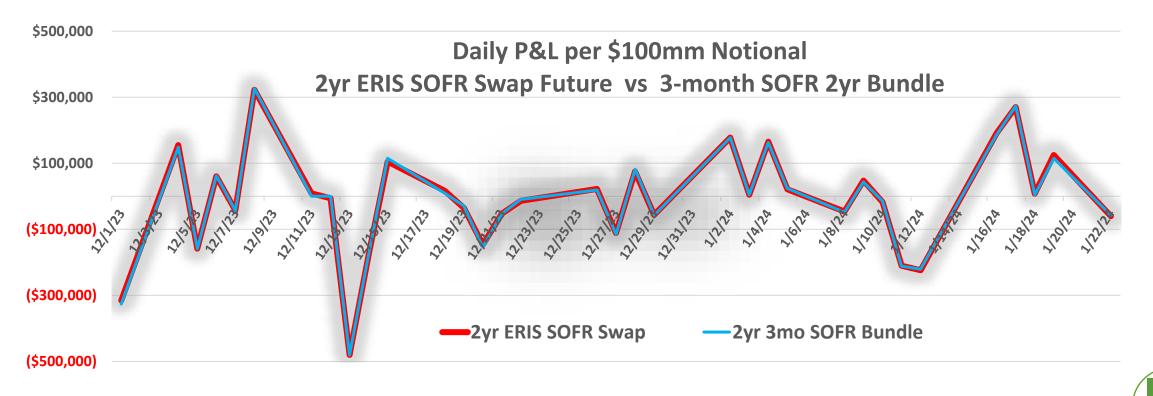
→ I'd either SHORT 50% of risk in each of last 2 REDs Or Buy 1y/Sell 2y Swap Fut



# Best Execution 3m SOFR vs 2yr Swap

- 2yr Bundle is 96% of ERIS Swap futures for ~ dv'01 equivalent size
- Pay-Fixed \$100 million notional comparison
- ERIS SOFR Swap Notional per contract = \$100,000
- 3-Month SOFR Notional per contract = \$1,000,0000

| Contract                       | <b>BB Symbol</b> | Bid    | Ask    | Day Px Chng | Day BP Chng | DV'01/\$100mm             | \$ Chng per \$100mm |
|--------------------------------|------------------|--------|--------|-------------|-------------|---------------------------|---------------------|
| 2 Year ERIS SOFR Swap Future   | YITH24           | 99.87  | 99.878 | -0.05625    | 2.90        | \$19,414.38               | -\$56,250.00        |
| 2 Year 3-month SOFR 2yr Bundle | SFR2YH4          | 95.973 | 95.978 | -0.03       | 3.00        | \$19 <mark>,200.00</mark> | -\$57,600.00        |



# Eris SOFR Margin up to 65% lower than Cleared Interest Rate Swaps

|             |                |                    |                                | <b>Eris</b>   | CONTRACTO   |                                    |                                |                 |  |  |
|-------------|----------------|--------------------|--------------------------------|---------------|-------------|------------------------------------|--------------------------------|-----------------|--|--|
| Tenor       | Eris<br>Ticker | Swap Start<br>Date | Unadjusted<br>Swap<br>End Date | Coupon<br>(%) | Eris SOFR   | Cleared Swap<br>(Receive<br>Fixed) | Cleared<br>Swap<br>(Pay Fixed) | Eris<br>Savings |  |  |
| 1-year      | YIAH24         | 2024-03-20         | 2025-03-20                     | 4.25          | \$325,000   | \$870,444                          | \$832,284                      | 61-63%          |  |  |
| 2-year      | YITH24         | 2024-03-20         | 2026-03-20                     | 4.00          | \$600,000   | \$1,540,426                        | \$1,661,283                    | 61-64%          |  |  |
| 3-year      | YICH24         | 2024-03-20         | 2027-03-20                     | 4.50          | \$800,000   | \$2,101,409                        | \$2,362,543                    | 62-66%          |  |  |
| 4-year      | YIDH24         | 2024-03-20         | 2028-03-20                     | 4.75          | \$1,050,000 | \$2,621,829                        | \$3,058,308                    | 60-66%          |  |  |
| 5-year      | YIWH24         | 2024-03-20         | 2029-03-20                     | 4.25          | \$1,125,000 | \$3,031,266                        | \$3,633,495                    | 63-69%          |  |  |
| 7-year      | YIBH24         | 2024-03-20         | 2031-03-20                     | 4.25          | \$1,450,000 | \$4,051,083                        | \$4,703,772                    | 64-69%          |  |  |
| 10-year     | YIYH24         | 2024-03-20         | 2034-03-20                     | 4.25          | \$1,775,000 | \$5,743,647                        | \$5,905,730                    | 69-70%          |  |  |
| 30-<br>year | YIEH24         | 2024-03-20         | 2054-03-20                     | 4.00          | \$3,700,000 | \$14,152,721                       | \$11,058,980                   | 67-74%          |  |  |

# Carry In Inverted Curve Environment

- How do I get paid?
- What does the firm pay (aka 'What do I get charged')?
- Coupon, Repo/Reverse, Balance Sheet Charges, Bid/Ask spreads?

# FIG Anticipated 30-Day Carry Grid

### **RJO FIG Futures Anticipated Carry Grid**

| Tenor                                             | 2 Year        | 5 Year        | 7 Year        | 10 Year         |
|---------------------------------------------------|---------------|---------------|---------------|-----------------|
| 30 Day Treasury Futures Carry per unit of DV'01:  | (\$4.97)      | (\$3.06)      | (\$2.04)      | (\$1.53)        |
| 30 day Eris Swap Futures Carry per unit of DV'01: | (\$12.38)     | (\$4.59)      | (\$3.25)      | (\$2.22)        |
| Carry Favors Long in:                             | Treasury      | Treasury      | Treasury      | Treasury        |
| Treasury Futures:                                 | 2YR Note      | 5YR Note      | 10YR Note     | Ultra-10YR Note |
|                                                   | TUH4 Comdty   | FVH4 Comdty   | TYH4 Comdty   | UXYH4 Comdty    |
| DV'01:                                            | \$37.80       | \$42.91       | \$64.14       | \$91.39         |
| Eris Swap Futures:                                | 2YR Swap      | 5YR Swap      | 7YR Swap      | 10YR Swap       |
|                                                   | YITH24 Comdty | YIWH24 Comdty | YIBH24 Comdty | YIYH24 Comdty   |
| DV'01:                                            | \$19.43       | \$45.46       | \$61.92       | \$84.65         |
| Hedge Ratio:                                      | TU:YIT        | FV:YIW        | TY:YIB        | UXY:YIY         |
|                                                   | 1:1.95        | 1:0.94        | 1:1.04        | 1:1.08          |
|                                                   |               |               |               |                 |

\*See Full Disclaimer at https://www.rjobrien.com/legal/disclaimer/

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# 30-Day Carry Calculations

### (A) Fwd Cash Px =

PRICE(Settlement, Maturity, Rate, YTM, Redemption (Par=\$100), Frequency (2), Basis (3).

(B) Future Price at Delivery = (A) / Conversion Factor

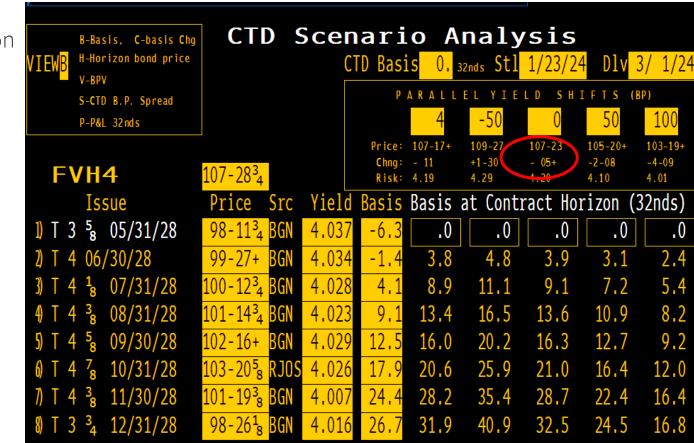
- (C) Carry Till Delivery in Ticks = ((B) Current Future Mid Price)\*32 = Carry till Delivery (Ticks)
- (D) 30 Day Carry Conversion per Contract = (C) \* (30 / Days till Delivery)

### 30 Day Carry Per Unit of DV'01 =

30day Carry / DV'01 of Current Futures Contract (FVH4 DV'01 = \$42.90)

\*Checking Carry Calculation Accuracy: Compare to Bloomberg CMS page (right). (FVH4 Comdty) CMS <Go> , then adjust the amber "DLV" box to the Settlement Date and hit <Go> . The carry calculation should match within a ½ tick, based on rounding of the CMS Page.

| Fwd Cash<br>Px Deliv | Px @ Deliv | Px MID    | Carry till<br>Delivery<br>(32nds) | Days till<br>Delivery | 30 Day<br>Carry<br>(32nds) | 30 Day<br>Carry Per<br>Contract | 30 Day<br>Carry Per<br>DV'01 |
|----------------------|------------|-----------|-----------------------------------|-----------------------|----------------------------|---------------------------------|------------------------------|
| \$ 98.39             | \$ 107.71  | \$ 107.88 | (5.48)                            | 39 Days               | (4.22)                     | \$ (131.81)                     | \$ (3.07)                    |





# 2 Relatively New Resi Mort Futures: Primary (Rate Lock) and 2ndary (TBA)

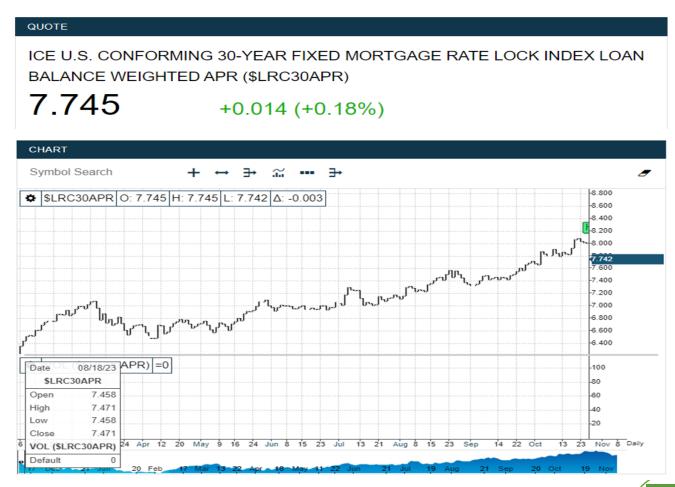
- RL Futures: Good proxy for Premium TBA without squeeze risk
  - Another basis to exploit
  - Better product for portfolio, rel val or risk manager than trader
  - Cash Settled on TBA SIFMA dates
  - FIXED DV01 !
  - Option-convenient
- TBA futures:
  - Margin mitigation
  - Opportunity to provide liquidity– outright and block
  - Delivery Into TBA at 72hr



### ICE U.S. 30 Year Conforming Residential Mortgage Rate Lock Index

The Index tracks rates on first lien, single family U.S. residential mortgage loan applications where borrowers and lenders have committed to lock-in the interest rate prior to close.

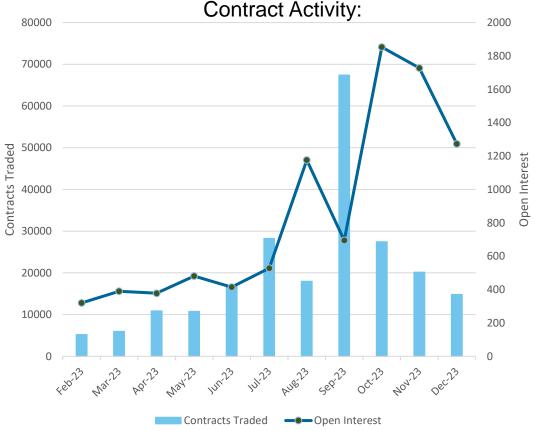
- Reflect the actual 30 year Conforming primary mortgage lending market
- The rate lock index is calculated based on the loan balance weighted average of qualifying loans.
- The index includes both new purchase and refinance loans, including cash-out refinance loans.
- The Index excludes Construction loans, nonprimary residences loans, Jumbo loans and those originated through a government program, such as FHA, VA and USDA.
- Produce more reliable projections and risk analytics for MBS investors



# ICE U.S. 30 Year Residential Mortgage Rate Lock Index Futures

A more refined risk management tool for mortgage interest rate prepayment and duration exposure using primary market rates.

- Contracts are cash-settled and track the ICE U.S. Conforming 30-year Fixed Mortgage Rate Lock Index which is based on robust data from the ICE Mortgage Technology (IMT) platform which supports nearly one out of two mortgages originated in the United States.
- Offers 6 Serial monthly contracts
- Contracts track where futures market participants believe the final daily Locked Rate will be on the last trading day of a serial contract.
- The serial contracts of the strip provide a 6month forward view of the ICE U.S. Conforming 30 year Fixed Mortgage Loan primary rate.



# ICE U.S. 30 Year Residential Mortgage Rate Lock Index Futures—6 mos fwd trade

| Description 1 | Bid             | Ask             | Yest Settle     | Rate Equiv. |
|---------------|-----------------|-----------------|-----------------|-------------|
| 1) Spot       |                 |                 | 6.981           |             |
| 2) Feb24      | 93 <b>.</b> 130 | 93.165          | 93.100          | 6.900       |
| 3) Mar24      | 93 <b>.</b> 195 | 93 <b>.</b> 235 | 93.165          | 6.835       |
| 4) Apr24      | 93 <b>.</b> 250 | 93.290          | <b>93.215</b>   | 6.785       |
| 5) May24      | 93 <b>.</b> 300 | 93.345          | 93 <b>.</b> 265 | 6.735       |
| 6) Jun24      | 93 <b>.</b> 345 | 93.395          | 93 <b>.</b> 315 | 6.685       |
| 7) Jul24      | 93 <b>.</b> 390 | 93 <b>.</b> 445 | <b>93.365</b>   | 6.635       |

# Index Level Analysis

### Primary Rate = Rate Lock Yield (LRC30APR Index) Secondary Rate = Par TBA Yield (MTGE FNCL Index)

Yield Spread Above 160 bps, favors:

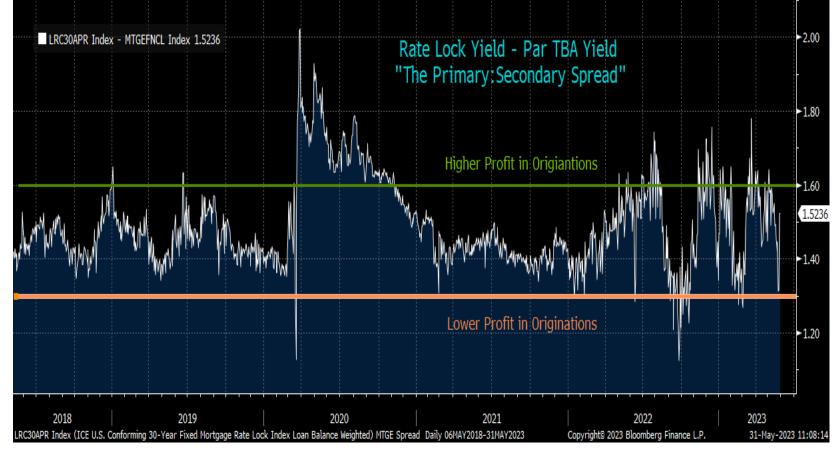
- BUY Primary (RL Futures)
- SELL Secondary (TBA)
- Room to improve pricing

### Between 135-160bps, favors:

• Balanced

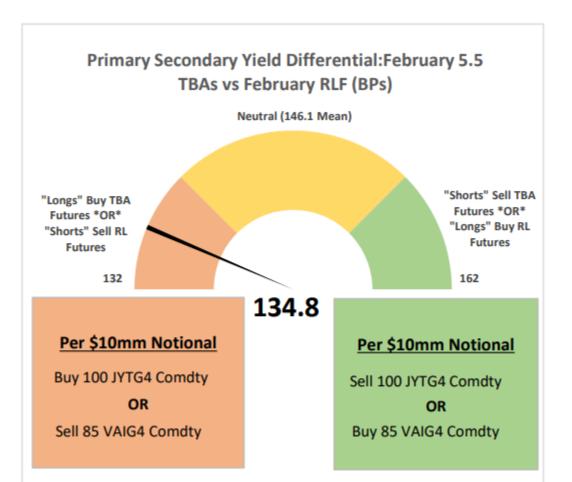
### Below 135bps, favors:

- SELL Primary (RL Futures)
- BUY Secondary (TBA)
- Reduce aggressive pricing



Rate Lock Futures offer insight into PRICING and a Hedge Alternative

# Primary/Secondary Yield Spread



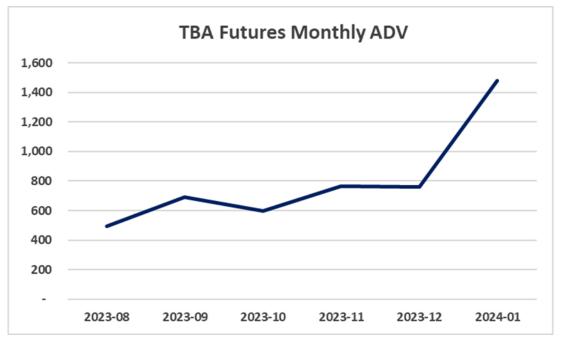
### <u>Methodology</u>

- Take the difference between the implied yield on the Rate Lock Future (Primary) and the YTM on the applicable TBA (Secondary) to give **Primary:Secondary Yield Differential**
- Using historical data, examine where, in percentile terms, today's level sits among the recent Low-High range
- Given strong tendency towards mean reversion of this Yield Differential (YD)...
  - When the YD level sits in the lower quartile (Orange on "The Meter"), it's likely Yield Differentials will widen and so "Longs" are better served buying TBA Futures (Vs Rate Lock Futures) and vice versa for "Shorts"
  - Conversely, when the YD level sits in the upper quartile (Green), it is likely Yield Differentials tighten and so "Longs" should buy Rate Lock Futures and "Shorts" sell TBA Futures
- Hedge Ratios in green and orange boxes calculated using DV01

# **CME TBA Futures**

### **KEY FEATURES:**

- Transparent Price Discovery
- Expanded Trading Access
- Central Counterparty Clearing
- Inter-Commodity Spread Trading
- \$100k Contract Size
- TBA Market Access Via Futures Contract
- Margin Efficiencies/Margin Offsets

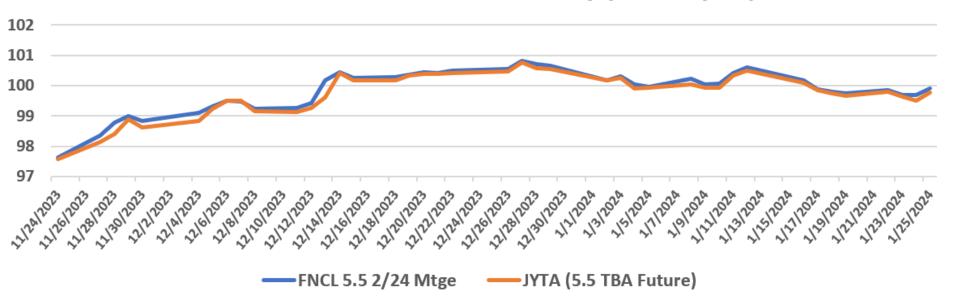


Source: CME Group

## TBA Futures vs Cash TBAs

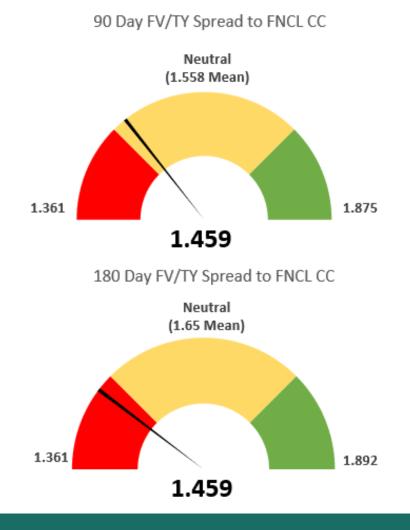
### **TBA Future 2023 Trade Recap:**

- Over \$10BB notional traded
- OI grew 70% in Dec'23 to close the year at a record 4,300 contracts
- ADV exceeded 750 contracts (\$75MM) in both Nov'23 and Dec'23
- Offsetting risk margin (non-bank levered finance firms)



### **TBA Futures vs Cash Price History (5.5 coupon)**

## Mortgage – Treasury Yield Spread Yield Differential on FNCL Index and Blend of FV + TY



### <u>Methodology</u>

- Using INDEX level yields compare Mortgage Treasury Spreads over different time frames
- We expect mean reversion as with Primary-Secondary Spreads.
- When Mortgage Treasury Spreads are TIGHT: Longs prefer to BUY TREASURIES and Shorts prefer to SELL TBAS
- When Mortgage Treasury Spreads are WIDE: Longs prefer to BUY TBAs and Shorts prefer to SELL TREASURIES



# **Option Implied Volatility & Spreads**

- iVol
- Credit (esp. HY)
- Liquidity
- "Markets are deepest when options are cheapest..."
- → YES! I know this is a mortgage session. Less liquid mort tranches (esp. non-agency RMBS and CMBS) see much wider bid/ask in Vol surges. Ask the non-QM traders!



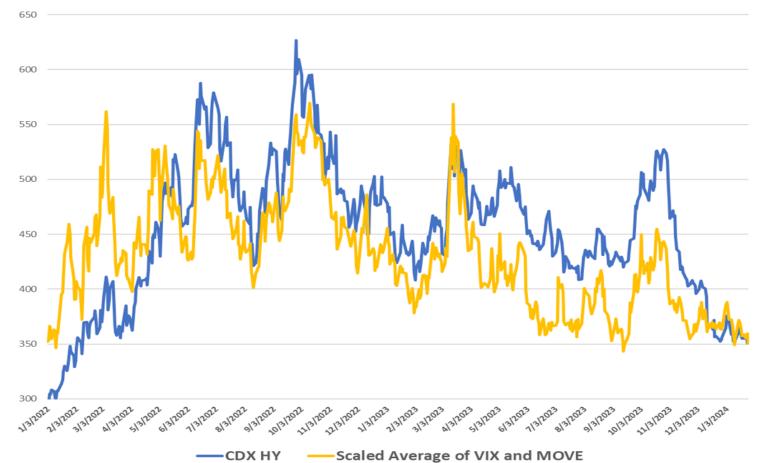
# MOVE Index vs VIX vs CDX HY

• Relationship between vol & credit spreads....as vol goes high, spreads widen.



# iVol, Credit (HY esp.) & Liquidity– 3 Peas in a Pod

Scaled MOVE, VIX, and CDX HY





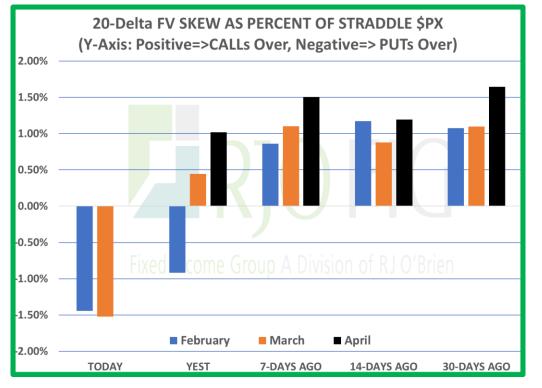
# CBOE CFE iBoxx Futures (IG & HY)

- iBoxx iShares Corp Bond Index Futures
- Unlike ETFs that trade super rich/cheap AND you can get called out of shorts, not so with the futures
- One-stop shop: duration and spread
- Same underlying index as LQD and HYG
- Similar leverage as TRS but no ISDA required



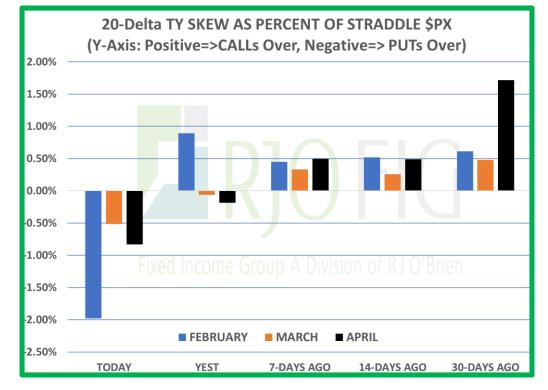
## TREASURY SKEWS Are Puts Cheaper than Calls, or Vice Versa?

#### Historically (30D) Calls were more expensive. Puts flipped to being more expensive over last week



Y-Axis: Positive  $\rightarrow$  CALLs Over, Negative  $\rightarrow$  PUTs Over

#### Pattern holds on TY and US, as well as FV. Front and back months have more extreme swings



# Menu of Options Offered

#### **SOFR Options:**

- Highly liquid
- Monthly options out 4 years
- Short Dated/Mid-curve
- Weekly Short Dated/Mid-curve
- 1mo & 3mo SOFR options listed

### **Treasury Options (highly liquid):**

- FV, TY, US
- ATM strikes regularly 100k+ Bid/Offer size
- Weekly options, with M, W, and F expiries

### **Treasury Options (liquid):**

- TU, UXY
- ATM strikes regularly 10k+ Bid/offer size
- Weekly options, with M, W, and F expiries

| Open Int   | Volume                                  | Last                | QS     | +     | C Qty     | C Bid    | C Ofr    | C Qty   | Strike | P Qty   | P Bid    | P Ofr   | P Qty      | + | QS | Last                     | Volume  | Open Int  |
|------------|-----------------------------------------|---------------------|--------|-------|-----------|----------|----------|---------|--------|---------|----------|---------|------------|---|----|--------------------------|---------|-----------|
| - 10-Year  | U.S. Trea                               | sury No             | ote Op | otion | Mar24, 31 | 1.3 days | , F: 111 | 070     | ATM    | 111.00  | 0000 🔻 🔺 | 10 s    | trikes – + |   |    |                          |         |           |
| 10-Year U. | 10-Year U.S. Treasury Note Future Mar24 |                     |        |       |           |          |          |         |        | 1,364   | 111'070  | 111'075 | 2,446      | + |    | - 111'070                | 489,426 | 4,641,749 |
| 8,750      |                                         |                     | QS     | +     | 1,091     | 2'23     | 2'25     | 59      | 109.00 | 499,901 | 0'10     | 0'11    | 448,712    | + | QS | 0'10                     | 3,993   | 47,854    |
| 17,392     |                                         |                     | QS     | +     | 1,526     | 1'60     | 1'63     | 1,530   | 109.50 | 523,535 | 0'15     | 0'16    | 366,085    | + | QS | 0'15                     | 87      | 44,532    |
| 16,110     | 61                                      | 1'38                | QS     | +     | 12,219    | 1'36     | 1'38     | 15,516  | 110.00 | 481,854 | 0'22     | 0'24    | 459,308    | + | QS | - 0'22                   | 7,283   | 92,513    |
| 31,827     | 21                                      | 1'17                | QS     | +     | 12,844    | 1'14     | 1'16     | 7,041   | 110.50 | 414,550 | 0'32     | 0'34    | 398,791    | + | QS | 0'32                     | 2,420   | 46,873    |
| 48,394     | 209                                     |                     | QS     | +     | 212       | 0'60     | 0'61     | 115,520 | 111.00 | 247,250 | 0'45     | 0'47    | 229,201    | + | QS | ↑ 0'45                   | 2,712   | 44,818    |
| 25,691     | 3,608                                   | 0'46                | QS     | +     | 180,327   | 0'44     | 0'45     | 42,097  | 111.50 | 876     | 0'62     | 0'63    | 105,776    | + | QS | ↑ 0'57                   | 714     | 20,133    |
| 42,331     | 606                                     | <mark>↓</mark> 0'32 | QS     | +     | 390,983   | 0'31     | 0'33     | 399,197 | 112.00 | 4,693   | 1'17     | 1'18    | 35         | + | QS | 1'08                     | 133     | 25,032    |
| 39,353     | 482                                     | 0'22                | QS     | +     | 406,745   | 0'22     | 0'23     | 182,992 | 112.50 | 4,011   | 1'39     | 1'41    | 3,910      | + | QS | <ul> <li>1'33</li> </ul> | 2       | 13,244    |
| 38,516     | 2,080                                   | - 0'16              | QS     | +     | 527,976   | 0'15     | 0'16     | 82,473  | 113.00 | 1,506   | 2'00     | 2'02    | 1,485      | + | QS | <ul> <li>1'57</li> </ul> | 118     | 8,493     |
| 34,394     | 3,785                                   | 0'11                | QS     | +     | 520,110   | 0'10     | 0'12     | 506,436 | 113.50 | 1,085   | 2'27     | 2'29    | 1,065      | + | QS | 2'24                     | 1       | 6,727     |

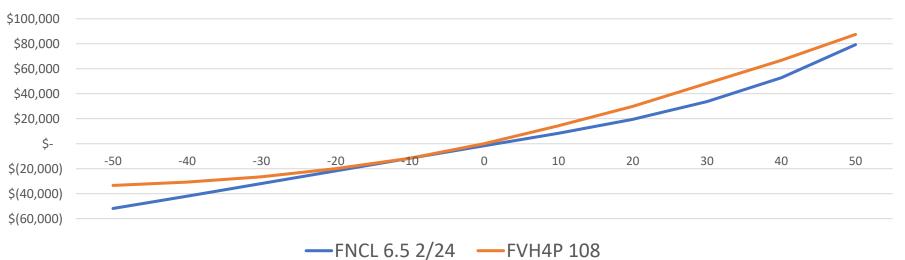
# First a Generic, Then Some Specific Mortgage Hedge Examples...



### FNCL 6.5 vs Long FV Put Options

| POSI<br>Mode: <mark>A</mark> Cash,Hedge<br>"MACRO" Portfolic                       | AGGREG.                 | DURATIO<br>Settle 1/2<br>Recompute F                         | 6/24  | Buy                             | • Page .00<br>0 271 701.39 | <b>1</b> of <b>3</b> |
|------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------|-------|---------------------------------|----------------------------|----------------------|
| Inflation = 0.0<br>Tkr Cpn Mty <key><br/>FNCL 6<sup>1</sup><sub>2</sub> 2/24</key> | Price E                 | qvYld ModDur<br>5.6584 2.89                                  |       | MM Par<br>Sel -10               | 1mlnMV<br>-10              | <u>BPV</u><br>-2.97M |
| Futures/Options<br>FVH4<br>FVH4P 108.00                                            | Price<br>107-21<br>'46+ | Proxy Issue<br><mark>3<sup>5</sup>8 5/28</mark><br>4.54%IV60 | .0427 | Num Contr<br>ng <mark>50</mark> | n/a<br>n/a                 | -1.27M               |

#### \$10MM FNCL 6.5 vs FVH4P 108 (Instantaneous Shock)

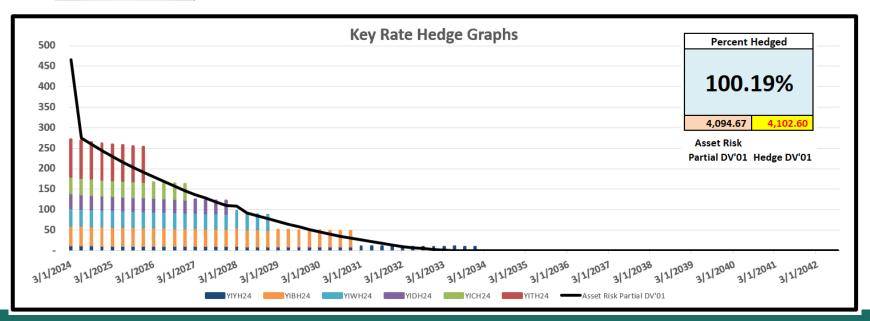


# GNR 2006-10 ZT Mtge

| GNR 20<br>As of      |                 |              | repay             |            |             | 02-21<br>WAL 3      |               | <u></u>    | Yie<br>ateral                     |             | 166/5        |                   | e Bi        | am toas 87                   | BVAL  |
|----------------------|-----------------|--------------|-------------------|------------|-------------|---------------------|---------------|------------|-----------------------------------|-------------|--------------|-------------------|-------------|------------------------------|-------|
| GNR 20               |                 |              |                   | Ser        |             |                     | ./3           | .0110      | acerar                            | 100.0       |              | Page              |             | curity Desc                  |       |
| 100% G2S             |                 |              |                   | 7(107)2    | 241 C       | JSIP 38             | 374MYT        | 0          | Pool Lev                          | /el 🔽       | 95) Buy      | / 96) Se          |             |                              |       |
| 1) Bond S            |                 |              | iroup Su          |            | _           | omments             | _             |            | mmary                             | 600         | 10.0         |                   | N4: 16:     |                              | 20.2  |
|                      | Govern<br>06-10 | ment Na      | ational<br>ass ZT |            |             | Pro   D:<br>20/2036 |               |            | ) <mark>ocs  </mark> D<br>S38374M |             |              | ervicer<br>ad Mgr |             | rst Bank (16.3<br>of America | 3%)   |
| 10) Class            |                 |              | Z, SEQ            | rity       | 0372        | 207 2030            | FIG           |            | 338374M<br>BG000B1(               |             |              | ustee             |             | Fargo Bank                   |       |
|                      | •               |              |                   |            |             |                     |               |            |                                   |             |              |                   |             | 5                            |       |
| Current              |                 |              |                   | Origi      |             |                     |               |            | Payment                           |             |              |                   |             | CPR                          | PSA   |
| Bal USD              |                 | 11,13        |                   | Bal U      |             |                     | 3,779,00      |            | Next Pay                          |             |              | /2024             | 1m          | 6.82                         | 114   |
| Fct (Jan             |                 | 1.26810      |                   | WAL        |             | 19 <b>.</b> 6Yrs(   |               |            | Rcd Date                          |             | 01/31        | /2024             | 3m          | 6.20                         | 103   |
| Cpn (Jan             |                 |              | %0000             |            | oupon       |                     | 6.0000        |            | Pay Day                           |             |              | 20th              | 6m          | 7.10                         | 118   |
| Class/Gr<br>Beg Accr |                 | 01/01        | )0.00%            | 1st P      | /Grp P      |                     | 2.1<br>/20/20 |            | Frequence<br>Day, Dola            |             |              | onthly<br>9 Days  | 12m<br>Life | 7.71                         | 129   |
| End Accr             |                 | 01/01        |                   |            | ay<br>ettle |                     | /30/20        |            | Pay Dela<br>Day Cou               |             |              | 0/360             |             | 15.29<br>nal Informatio      | 256   |
|                      | uC              | 01/51        | / 2027            |            | d Date      |                     | /01/20        |            | Calendar                          |             | J            | US                |             | ok Entry, DTC                |       |
|                      |                 |              |                   | Price      |             |                     | /23/20        |            | Call                              |             | 00% De       |                   | Day, TR     |                              | June  |
|                      |                 |              |                   |            |             |                     | ,,            |            |                                   |             |              |                   | 31          |                              |       |
|                      |                 |              |                   |            |             |                     |               |            |                                   |             |              |                   | Min Siz     | e                            | 1,000 |
|                      |                 |              |                   |            |             |                     |               |            |                                   |             |              |                   | Increm      | ent                          | 1     |
|                      | Fab 34          | Jan          | Dee               | Nov        | Oct         | Con                 | Aug           | ا۲         | 1                                 | May         | Apr          | MarDD             |             |                              |       |
|                      | Feb24           | Jan<br>114   | Dec<br>112        | Nov<br>84  | 0ct<br>133  | Sep<br>116          | Aug<br>150    | Jul<br>150 |                                   | Мау<br>103  | Apr<br>157   | Mar23<br>101      |             |                              |       |
| PSA<br>CPR           |                 | <b>6.</b> 82 | <b>6.75</b>       | 04<br>5.03 | 8.00        | 6 <b>.</b> 94       | 8.99          | 9.02       |                                   | <b>6.21</b> | <b>9.4</b> 3 | 6.07              |             |                              |       |
| Fctr                 |                 | 1.27         | 1.28              | 1.30       | 1.32        | 1.33                | 1.35          | 1.37       |                                   | 1.42        | 1.43         | 1.45              |             |                              |       |
| Cpn                  | 6.00            | 6.00         | 6.00              | 6.00       | 6.00        | 6.00                | 6.00          | 6.00       |                                   | 6.00        | 6.00         | 6.00              |             |                              |       |
| VPR                  | 0100            | 6.22         | 5.40              | 4.56       | 7.25        | 6.05                | 8.36          | 7.62       |                                   | 4.63        | 8.38         | 5.79              |             |                              |       |
| Buyout               |                 | 0.64         | 1.42              | 0.49       | 0.81        | 0.95                | 0.68          | 1.51       | 1.18                              | 1.65        | 1.14         | 0.29              |             |                              |       |

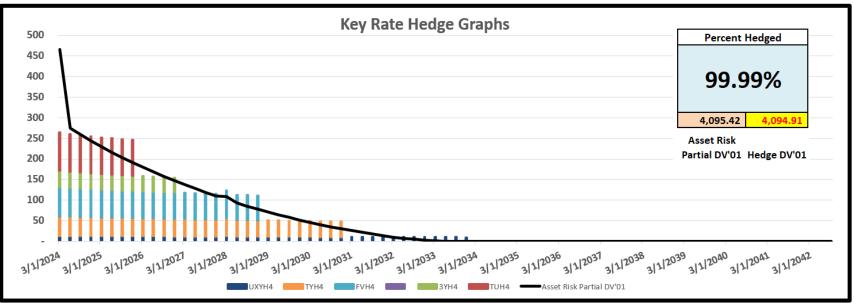
# GNR 2006-10 ZT Mtge – Swap Future Hedge

| FIRST PAYMENT Dt:   | 1/26/2024                |                                     |                                 |              | ERIS                   |
|---------------------|--------------------------|-------------------------------------|---------------------------------|--------------|------------------------|
|                     |                          | ERIS Swap Futures                   | ERIS Swap Futures               | E)           | (ISTING Initial Margin |
| GNR 2006-10 ZT Mtge | GNR 2006-10 ZT Mtge      | OUTRIGHT/Bullet Hedge (1 curve pnt) | Amortizing Swap (trade all)     | Hedge Adjust | HEDGE Requirement      |
| MTG FACE AMT        | GNR 2006-10 ZT Mtge      | 2yr SELL 211 YITH24                 | 2yEris SELL 36 YITH24           | 0            | <b>-36</b> -\$21,600   |
| \$ 10,000,000       |                          | OR                                  | 3yEris SELL 16 YICH24           | 0            | <b>-16</b> -\$12,800   |
|                     | YLD CNV ASK<br>5.05      | 3yr SELL 141 YICH24                 | 4yEris SELL 14 YIDH24           | 0            | <b>-14</b> -\$14,700   |
|                     | px ask                   | OR                                  | 5yEris SELL 17 YIWH24           | 0            | <b>-17</b> -\$19,125   |
|                     | 102.9415665              | 5yr SELL 89 YIWH24                  | 7yEris SELL 19 YIBH24           | 0            | <b>-19</b> -\$27,550   |
|                     | MTG EQV CPR              | OR                                  | 10yEris SELL 5 YIYH24           | 0            | <b>-5</b> -\$8,875     |
|                     | 8.82<br>MTG PREPAY SPEED | 10yr SELL 48 YIYH24                 |                                 |              | -\$104,650             |
|                     | 147                      |                                     | Asset DV'01 \$ 4,095            | Margin %     | of Face: -1.05%        |
|                     | MTG PREPAY TYP           |                                     | Asset DV'01 per \$1mm \$ 327.73 |              |                        |
|                     | PSA                      |                                     |                                 |              |                        |



# GNR 2006-10 ZT Mtge – UST Future Hedge

| FIRST PAYMENT Dt:             | 1/26/2024                |      |                              |                        |   |          |                                   |           |            | Treasury          |                               |
|-------------------------------|--------------------------|------|------------------------------|------------------------|---|----------|-----------------------------------|-----------|------------|-------------------|-------------------------------|
| GNR 2006-10 ZT Mtge           | GNR 2006-10 ZT Mtge      |      | reasury Futu<br>Bullet Hedge | res<br>e (1 curve pnt) |   | Amo      | Treasury Futur<br>rtizing Swap (t |           | Hedge Adju | EXISTING<br>HEDGE | Initial Margin<br>Requirement |
| MTG FACE AMT<br>\$ 10,000,000 | GNR 2006-10 ZT Mtge      | 2yr  | SELL 109                     | TUH4                   |   | 2yTreas  | SELL 19                           | TUH4      | 0          | -19               | -\$21,850                     |
| ф <u>10,000,000</u>           | YLD CNV ASK              |      | OR                           |                        |   | 3yTreas  | SELL 8                            | 3YH4      | 0          | -8                | -\$12,800                     |
|                               | 5.05                     | 3yr  | SELL 73                      | 3YH4                   |   |          |                                   |           |            |                   |                               |
|                               | px ask                   |      | OR                           |                        |   | 5yTreas  | SELL 30                           | FVH4      | 0          | -30               | -\$42,000                     |
|                               | 102.9415665              | 5yr  | SELL 96                      | FVH4                   |   | 7yTreas  | SELL 18                           | TYH4      | 0          | -18               | -\$38,250                     |
| -                             | MTG EQV CPR              | -    | OR                           |                        |   | 10yTreas | SELL 5                            | UXYH4     | 0          | -5                | -\$15,000                     |
|                               | 8.82<br>MTG PREPAY SPEED | 10yr | SELL 45                      | UXYH4                  | ] |          |                                   |           |            |                   | -\$129,900                    |
| -                             | 147                      |      |                              |                        |   |          | Asset DV'01                       | \$ 4,095  |            | Margin % of Face: | -1.30%                        |
|                               | MTG PREPAY TYP           |      |                              |                        |   | Asset DV | '01 per \$1mm                     | \$ 327.78 |            | -                 |                               |
|                               | PSA                      |      |                              |                        |   |          |                                   |           |            |                   |                               |

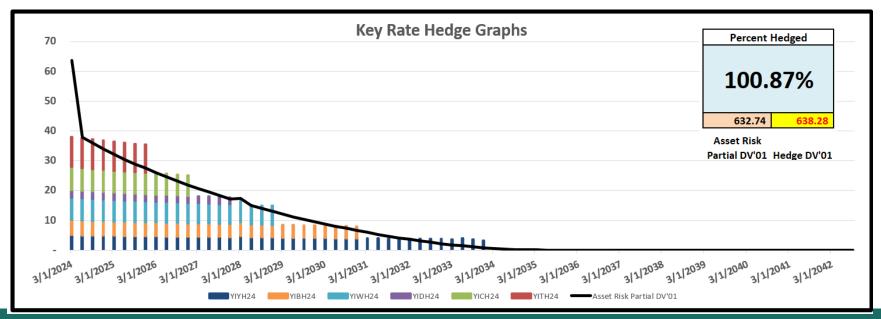


## FHR 4586 EC MTGE

| FHR 458<br>As of 2<br>FHR 4586                                                    | 4 Jan                                                                                                                                                                                         |       |        |       | PSA    | 90-07<br>WAL 4 |           | Coll  | Yiel<br>ateral |       |        | 4.660<br>GLMC<br><sub>Page</sub> |          | M TOAS 4<br>curity Desc |       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|--------|----------------|-----------|-------|----------------|-------|--------|----------------------------------|----------|-------------------------|-------|
|                                                                                   | 100% FGLMC 5.0 S       5.593(126)223       CUSIP 3137BPKY4       Pool Level       95 Buy       96 Sell         1) Bond Summary       2) Group Summary       3) Comments       4) Deal Summary |       |        |       |        |                |           |       |                |       |        |                                  |          |                         |       |
| Issuer Freddie Mac 6 Pro DSC0 » 7) Docs DSC0 » 10 Servicer WELLS FARGO BANK, NATI |                                                                                                                                                                                               |       |        |       |        |                |           |       |                |       |        |                                  |          |                         |       |
| Series 458                                                                        |                                                                                                                                                                                               |       | ss EC  | Mty   |        |                | 514) ISIN |       | S3137BP        |       |        | ead Mgr                          |          | ra Securities           |       |
| 10) Class Des                                                                     | criptio                                                                                                                                                                                       | n E   | XCH, P | T     |        |                | FIG       | I Bl  | BG00CXCZ       | WZ3   |        | ustee                            | Fredd    | ie Mac                  |       |
|                                                                                   |                                                                                                                                                                                               |       |        |       |        |                |           |       |                | - · · |        |                                  |          | 25.5                    | 5.61  |
| Current                                                                           | ~                                                                                                                                                                                             |       | 500    | Origi |        | 45             |           |       | Payment        |       |        |                                  |          | CPR                     | PSA   |
| Bal USD                                                                           |                                                                                                                                                                                               | 6,561 |        | Bal U | SD     |                | 4,640,3   |       | Next Pay       |       |        | 5/2024                           | 1m       | 8.05                    | 134   |
| Fct (Jan 24)                                                                      |                                                                                                                                                                                               | 7176  |        | WAL   |        | 4Yrs           | @ 300 P   |       | Rcd Date       |       | 01/31  | /2024                            | 3m       | 6.76                    | 113   |
| Cpn (Jan 24                                                                       |                                                                                                                                                                                               | 2.00  |        |       | oupon  |                | 2.0000    |       | Pay Day        |       |        | 15th                             | 6m       | 7.15                    | 119   |
| Class/Grp P                                                                       |                                                                                                                                                                                               |       | N/A    |       | /Grp P |                | 100.0     |       | Frequence      |       |        | onthly                           | 12m      | 8.17                    | 136   |
| Beg Accrue                                                                        |                                                                                                                                                                                               |       | 2024   | 1st P |        |                | /15/20    |       | Pay Dela       |       |        | 1 Days                           | Life     | 16.62                   | 277   |
| End Accrue                                                                        | 01                                                                                                                                                                                            | l/31/ | 2024   | 1st S |        |                | /31/20    |       | Day Cour       |       |        | 80/360                           |          | al Informati            | on    |
|                                                                                   |                                                                                                                                                                                               |       |        |       | l Date |                | /01/20    |       | Calendar       |       |        | US                               | TRACE    |                         |       |
|                                                                                   |                                                                                                                                                                                               |       |        | Price | d      | 05             | /11/20    | 16    | Call           |       | Non-Ca | allable                          |          |                         |       |
|                                                                                   |                                                                                                                                                                                               |       |        |       |        |                |           |       |                |       |        |                                  |          |                         |       |
|                                                                                   |                                                                                                                                                                                               |       |        |       |        |                |           |       |                |       |        |                                  | Min Size |                         | 1,000 |
|                                                                                   |                                                                                                                                                                                               |       |        |       |        |                |           |       |                |       |        |                                  | Increme  | ent                     |       |
| Fet                                                                               | )24 ]                                                                                                                                                                                         | Jan   | Dec    | Nov   | 0ct    | Sep            | Aug       | Ju    | l Jun          | Мау   | Apr    | Mar23                            |          |                         |       |
| PSA                                                                               |                                                                                                                                                                                               | 34    | 100    | 103   | 119    | 104            | 153       | 330   |                | 154   | 111    | 83                               |          |                         |       |
| CPR                                                                               |                                                                                                                                                                                               | .05   | 6.02   | 6.19  | 7.14   | 6.26           |           | 19.83 |                | 9.21  | 6.67   | 4.97                             |          |                         |       |
| Fctr                                                                              |                                                                                                                                                                                               |       | 0.17   | 0.18  | 0.18   | 0.18           | 0.18      | 0.18  |                | 0.19  | 0.19   | 0.20                             |          |                         |       |
|                                                                                   |                                                                                                                                                                                               | .00   | 2.00   | 2.00  | 2.00   | 2.00           | 2.00      | 2.00  |                | 2.00  | 2.00   | 2.00                             |          |                         |       |
| VPR                                                                               |                                                                                                                                                                                               | 85    | 5.84   | 6.08  | 7.10   | 5.79           |           | 19.68 |                | 9.13  | 6.63   | 4.53                             |          |                         |       |
| Buyout                                                                            |                                                                                                                                                                                               | .22   | 0.19   | 0.12  | 0.05   | 0.50           | 0.11      | 0.19  |                | 0.09  | 0.05   | 0.46                             |          |                         |       |

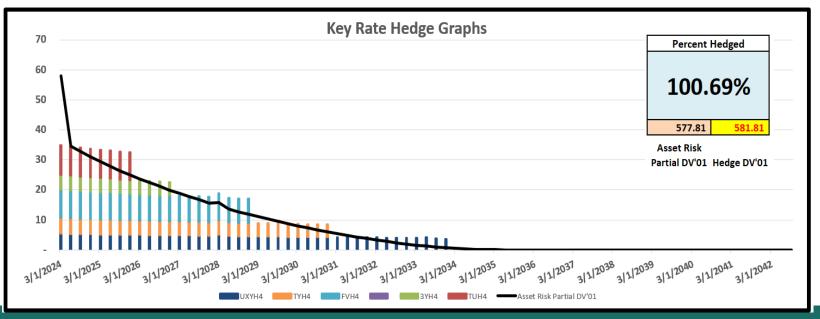
# FHR 4586 EC MTGE – Swap Future Hedge

| FIRST PAYMENT Dt: | 1/26/2024        |         |                |                 |     |               |                 |            |              | ERIS              |                |
|-------------------|------------------|---------|----------------|-----------------|-----|---------------|-----------------|------------|--------------|-------------------|----------------|
|                   | 1/20/2024        |         | ERIS Swap Fut  | ures            |     |               | ERIS Swap Futu  | ures       |              | EXISTING          | Initial Margin |
| FHR 4586 EC MTGE  | FHR 4586 EC MTGE | OUTRIGH | T/Bullet Hedge | e (1 curve pnt) |     | Amo           | rtizing Swap (t | trade all) | Hedge Adjust | HEDGE             | Requirement    |
| MTG FACE AMT      | FHR 4586 EC MTGE | 2y      | SELL 33        | YITH24          |     | 2yEris        | SELL 4          | YITH24     | 0            | -4                | -\$2,400       |
| \$ 10,000,000     |                  |         | OR             |                 |     | <b>3yEris</b> | SELL 3          | YICH24     | 0            | -3                | -\$2,400       |
|                   | YLD CNV ASK      | 3y      | SELL 22        | YICH24          |     | 4yEris        | SELL 1          | YIDH24     | 0            | -1                | -\$1,050       |
|                   | 4.569            |         | OR             |                 |     | 5yEris        | SELL 3          | YIWH24     | 0            | -3                | -\$3,375       |
|                   | px ask           | 5y      | SELL 14        | YIWH24          |     | 7yEris        | SELL 2          | YIBH24     | 0            | -2                | -\$2,900       |
|                   | 90.5227356       |         |                |                 | , I |               |                 |            |              |                   |                |
|                   | MTG EQV CPR      |         | OR             |                 | ,   | 10yEris       | SELL 2          | YIYH24     | 0            | -2                | -\$3,550       |
|                   | 8.4              | 10y     | SELL 7         | YIYH24          | .   |               |                 |            |              |                   | -\$15,675      |
|                   | MTG PREPAY SPEED |         |                |                 |     |               | Asset DV'01     | \$ 633     | r            | Margin % of Face: | -0.16%         |
|                   | 140              |         |                |                 |     | Asset DV      | '01 per \$1mm   | \$ 373.30  |              | -                 |                |
|                   | MTG PREPAY TYP   |         |                |                 |     |               |                 |            |              |                   |                |
|                   | PSA              |         |                |                 |     |               |                 |            |              |                   |                |



# FHR 4586 EC MTGE – UST Future Hedge

| FIRST PAYMENT Dt: | 1/26/2024        |    |                                     |         |       | _                           |                  |              |                        |            | Treasur         | у                |
|-------------------|------------------|----|-------------------------------------|---------|-------|-----------------------------|------------------|--------------|------------------------|------------|-----------------|------------------|
|                   |                  |    | Treasury Futures                    |         |       |                             | Treasury Futures |              |                        |            | EXISTIN         | G Initial Margin |
| FHR 4586 EC MTGE  | FHR 4586 EC MTGE | 0  | OUTRIGHT/Bullet Hedge (1 curve pnt) |         |       | Amortizing Swap (trade all) |                  |              | Hedge Ad               | just HEDGE |                 |                  |
| MTG FACE AMT      | FHR 4586 EC MTGE |    | 2yr                                 | SELL 15 | TUH4  |                             | 2yTreas          | SELL 2       | TUH4                   | 0          | -2              | -\$2,300         |
| \$ 10,000,000     |                  |    |                                     | OR      |       | •                           | 3yTreas          | SELL 1       | 3YH4                   | 0          | -1              | -\$1,600         |
|                   | YLD CNV ASK      |    |                                     | 0511.40 |       | 1                           |                  |              |                        |            |                 |                  |
|                   | 4.569            |    | 3yr                                 | SELL 10 | 3YH4  |                             |                  |              |                        |            |                 |                  |
|                   | px ask           | _  |                                     | OR      |       |                             | 5yTreas          | SELL 4       | FVH4                   | 0          | -4              | -\$5,600         |
|                   | 90.5227356       |    | 5yr                                 | SELL 14 | FVH4  |                             | 7yTreas          | SELL 2       | TYH4                   | 0          | -2              | -\$4,250         |
| _                 | MTG EQV CPR      |    |                                     | OR      |       | -                           | 10yTreas         | SELL 2       | UXYH4                  | 0          | -2              | -\$6,000         |
|                   | 8.4              | 10 | SELL C                              |         |       |                             |                  |              |                        |            | -\$19,750       |                  |
|                   | MTG PREPAY SPEED |    | 10yr                                | SELL 6  | UXYH4 | J                           |                  |              |                        |            |                 |                  |
|                   | 140              |    |                                     |         |       |                             |                  | Asset DV'01  | \$ 578                 |            | Margin % of Fac | -0.20%           |
|                   | MTG PREPAY TYP   |    |                                     |         |       |                             | Asset DV         | 01 per \$1mm | <mark>\$ 340.89</mark> |            |                 |                  |
|                   | PSA              |    |                                     |         |       |                             |                  |              |                        |            |                 |                  |

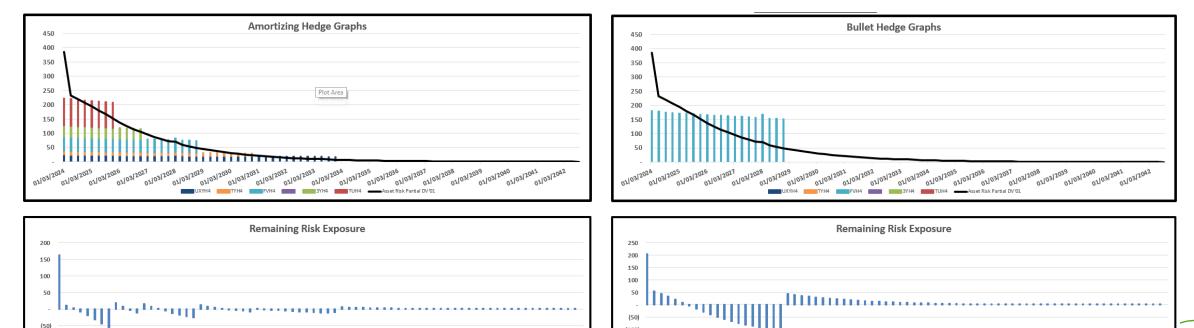


# Eris & US Treasury Future Markets

| Ticker            | Change o                       | Bid Sz C    | TD Fwd YTM Bid | Bid Ask Pric CTD Fwd YTM Ask |                       |          | Ask Sz | Last Tra              | Volume    |  |  |  |
|-------------------|--------------------------------|-------------|----------------|------------------------------|-----------------------|----------|--------|-----------------------|-----------|--|--|--|
| → 2yr Futures (4) |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| YITH24            | 1175                           | 1000        |                | <b>99.89</b> 50              | <b>99.9</b> 025       |          | 100    | s99.8812              | 91        |  |  |  |
| YICH24            | 1575                           | 600         |                | 101.8100                     | 101.8200              |          | 300    | s101.7800             | 142       |  |  |  |
| TUH4              | - 03                           | 1466        | 4.460259       | 102-18 <sup>3</sup> 4        | 102-18 <sup>7</sup> 8 | 4.457967 | 689    | 102-18 <sup>7</sup> 8 | 489,667   |  |  |  |
| 3YA               | - 03 <b>7</b> 8                | 12          | 4.113921       | 104-29+                      | 104-29 <sup>5</sup> 8 | 4.110973 | 16     | 104-29 <sup>5</sup> 8 | 6,540     |  |  |  |
| + 5yr Futures (4) |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| YIDH24            |                                | 1300        |                | 103.5800                     | 103.6200              |          | 800    | s103.5450             | 11        |  |  |  |
| YIWH24            | 1350                           | 1900        |                | 102.3400                     | 102.3700              |          | 150    | 102.3500              | 491       |  |  |  |
| FVH4              | - 04 <sup>1</sup> <sub>4</sub> | 1737        | 4.047475       | 107-22+                      | 107-22 <sup>3</sup> 4 | 4.045576 | 929    | 107-22 <sup>3</sup> 4 | 933,965   |  |  |  |
|                   |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| ▼7yr Futi         | → 7yr Futures (3)              |             |                |                              |                       |          |        |                       |           |  |  |  |
| YIBH24            | 1900                           | 800         |                | 103.2000                     | 103.2600              |          | 800    | s103.1600             | 124       |  |  |  |
| TYH4              | - 06                           | 2395        | 4.089492       | 111-04                       | 111-04+               | 4.086992 | 3464   | 111-04                | 1,394,944 |  |  |  |
|                   |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| • 10y Futures (3) |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| YIYH24            | 1800                           | 1000        |                | 104.1400                     | 104.2000              |          | 150    | s104.0700             | 985       |  |  |  |
| UXYH4             | - 06                           | <b>9</b> 07 | 4.131655       | 115-06                       | 115-06+               | 4.129912 | 320    | 115-06                | 367,192   |  |  |  |
|                   |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| + 20-30y Futs (3) |                                |             |                |                              |                       |          |        |                       |           |  |  |  |
| TWEH4             |                                |             | 4.504891       |                              |                       | 4.504891 |        | s125-16c              |           |  |  |  |
| USH4              | - 02                           | 510         | 4.321930       | 119-24                       | 119-25                | 4.319574 | 973    | 119-24                | 306,204   |  |  |  |
| WNH4              | - 01                           | 278         | 4.542401       | 125-20                       | 125-21                | 4.540888 | 374    | 125-20                | 187,686   |  |  |  |

# Hedging UMBS (\$10mm FNCL 6.5 02/24)

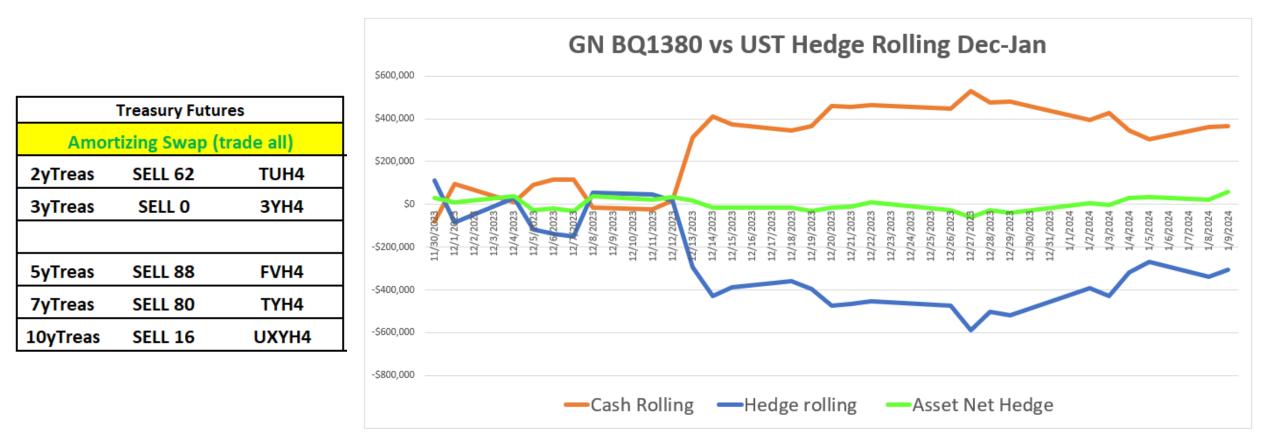
| Treasury Futures            | 450 Key Rate Hedge Graphs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   | Treasury Futures |              |               |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------|--------------|---------------|
| Amortizing Swap (trade all) | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C | OUTRIGHT/B       | Bullet Hedge | (1 curve pnt) |
| 2yTreas SELL 19 TUH4        | 350<br>300 Asset DV'01 \$ 3,262                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | 2yr              | SELL 87      | TUH4          |
| 3yTreas SELL 8 3YH4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |                  | OR           |               |
|                             | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   | 3yr              | SELL 58      | 3YH4          |
| 5yTreas SELL 21 FVH4        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |                  | OR           |               |
|                             | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   | 5yr              | SELL 76      | FVH4          |
| 7yTreas SELL 5 TYH4         | 01/03/2024<br>01/03/2025<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/2026<br>01/03/200<br>01/03/200<br>01/03/200<br>01/ |   |                  | OR           |               |
| 10yTreas SELL 9 UXYH4       | UXYH4 PVH4 PVH4 PVH4 PVH4 PVH4 PVH4 PVH4 PV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | J | 10yr             | SELL 36      | UXYH4         |



(100) (150)

(100)

# Hedging Ginnie Project Loan (CMBS) GN BQ1380 - \$50mm Original Amount



# THANK YOU!! Any Questions?

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