Dallas Area Rapid Transit (DART) Silver Line Project

Quarterly Community Meeting – City of Coppell / Cypress Waters
Monday, November 9, 2020
Welcome!
We Will Begin Momentarily

Please submit all questions and comments via the chat room.

If you have called into this meeting and wish to submit questions or comments please email CottonBelt@DART.org.

If we do not respond to your question/comments tonight, it will be responded to within 30 days of receipt. Your question and answer will then be posted on www.DART.org/SilverLine

Thank You
Notice

Audio and Video Recording in Progress
DART Community Engagement Representative

Carlos Huerta
CottonBelt@DART.org
214-749-2721
COVID-19 Update

Due to the current pandemic, all public involvement sessions will take place via video conference.

DART urges you to follow the guidelines from the Centers for Disease Control and Prevention (CDC) to keep your family healthy and safe.

Stay up to date by attending public involvement sessions online, signing up for construction alerts, visiting DART.org/SilverLine or calling 214-749-2543.
How To Stay Informed

- Visit [www.DART.org/SilverLine](http://www.DART.org/SilverLine)
- Email [CottonBelt@DART.org](mailto:CottonBelt@DART.org)
- Attend meetings virtually
- Sign up for project alerts at [www.DART.org/SilverLine](http://www.DART.org/SilverLine)
- DART HOTLINE 972-833-2856
- Mail your Community Engagement Representative
Questions and Answers

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Thank You
DART Silver Line Project Facts

- $1.266 Billion Design-Build Project
- 26 Mile alignment servicing the following cities/towns:
  - Addison
  - Carrollton
  - Coppell
  - Dallas
  - Grapevine
  - Plano
  - Richardson
- 10 Rail stations
- 4 Rail connections (Green, Orange, Red Light Rail, TEXRail)
- March 2023 Revenue Service
- The design-build status for Silver Line is 70% complete as of October 22, 2020
- The Silver Line vehicle design is 100% complete as of October 22, 2020
DART Silver Line Segment Map

Silver Line Regional Rail Project
Design-Build Update
What is Design-Build?

Design–build alternative project delivery method is used in the construction industry. Design-build is a method of project delivery in which an entity (Archer Western Herzog, AWH), works under a single contract with the project owner (Dallas Area Rapid Transit, DART) to provide design and construction services.

- Design Builder – Archer Western Herzog (AWH)
- Owner – Dallas Area Rapid Transit (DART)
Design-Build Schedule

- Design/Build: Overall Final Design and Construction
- Design/Build: 30%
- Design/Build: 60%
- Design/Build: Final Design
- Design/Build: Construction
- Testing
- Revenue Service

November 2020
Design-Build Update
Coppell Belt Line Bridge
Design-Build Update
Coppell Belt Line Bridge
Design-Build Update
Fire Station Access Rd. Intersection
Design-Build Update
Royal Ln. Intersection
Design-Build Update
Freeport Pkwy. Intersection
Design-Build Update
S. Coppell Road Intersection
Design-Build Update
Southwestern Blvd. Intersection

[Diagram of Southwestern Blvd. Intersection with markings and labels for construction updates]
Design-Build Update
South Belt Line Intersection

CB bridge will be going over S. Belt Line Rd., not at-grade.
Design-Build Update
Sanders Loop Intersection

CB bridge will be going over Sanders Loop, not at-grade.
Design-Build Update
E. Belt Line Rd. Intersection
Design-Build Update
Moore Rd. Intersection
Design-Build Update
Mockingbird Ln. Intersection
Design-Build Update
S. MacArthur Blvd. Intersection
Design-Build Update
Fairway Dr. Intersection
Design-Build Update
Volley Dr. (Private) Intersection
Betterments Program Update
Betterments Program Update

• Series of community meetings for residential adjacent property owners

• Betterments are project elements above and beyond the standard mitigation measures or design criteria

Thank you to those who participated!
Betterments Program Update
Wall Finish and Color Results

- Neighborhood – Crestview Drive
  - Wall Height – 12’ Betterment Wall
  - Wall Color – 1082D Tan
  - Wall Finish – Natural Stone
  - Number of Votes – 8 of 21

- Neighborhood – The Club at Riverchase
  - Wall Height – 12’ and 15’ Betterment Wall
  - Wall Color – 1082D Tan
  - Wall Finish – Natural Stone
  - Number of Votes – 1 of 1

- Neighborhood – Oaks Riverchase
  - Wall Height – 15’ Betterment Wall
  - Wall Color – 1082D Tan
  - Wall Finish – Natural Stone
  - Number of Votes – 1 of 1

- Neighborhood – Crestview Court
  - Wall Height – 15’ Betterment Wall
  - Wall Color – 11988 Brown
  - Wall Finish – Natural Stone
  - Number of Votes – 1 of 3
Betterments Program Update
Crestview Court
Betterments Program Update
Wall Finish and Color Results – Crestview Court

• Neighborhood – Crestview Court
  – Wall Height – 15’ Betterment Wall
  – Wall Color – 11988 Brown
  – Wall Finish – Natural Stone
  – Number of Votes – 1 of 3

Natural Stone

11988 Brown
Betterments Program Update
Wall Finish and Color Results – Crestview Court
Betterments Program Update
Crestview Drive
Betterments Program Update
Wall Finish and Color Results – Crestview Drive

- Neighborhood – **Crestview Drive**
  - Wall Height – 12’ Betterment Wall
  - Wall Color – 1082D Tan
  - Wall Finish – Natural Stone
  - Number of Votes – 8 of 21

Natural Stone

1082D Tan
Betterments Program Update
Wall Finish and Color Results – Crestview Drive
Betterments Program Update

The Club at Riverchase
Betterments Program Update
Wall Finish and Color Results – Club at Riverchase

• Neighborhood – **Clubs at Riverchase**
  – Wall Height – 12’ and 15’ Betterment Wall
  – Wall Color – 1082D Tan
  – Wall Finish – Natural Stone
  – Number of Votes – 1 of 1

Natural Stone

1082D Tan
Betterments Program Update

Wall Finish and Color Results – Club at Riverchase
Betterments Program Update
Oaks Riverchase
Betterments Program Update
Wall Finish and Color Results – Oaks Riverchase

- Neighborhood – Oaks Riverchase
  - Wall Height – 15’ Betterment Wall
  - Wall Color – 1082D Tan
  - Wall Finish – Natural Stone
  - Number of Votes – 1 of 1

Natural Stone

1082D Tan
Betterments Program Update
Wall Finish and Color Results – Oaks Riverchase
Betterments Program Update
Wall Finish and Color Results – Trackside Finish

• Trackside Finish at Riverchase West at bridge.

![Natural Stone]

1082D Tan
Betterments Program Update
Wall Finish and Color Results – Trackside Finish
Betterments Program Update
Sound Wall Mock-up Viewing Schedule
DART Station
Art & Design Program
Art & Design Program
DFW North Station

Station Facts
Platform Type: Center
Parking Spaces: 362 (Shared)
Bus Bays: 4 (Shared)
Bus Routes: 1

Projected Daily Ridership:
Opening Day: 800
2040: 1,320

Mode of Access:
Rail Transfer: 57%
80% of rail transfers are riders from TEXRail boarding Silver Line to continue east
Bus Transfer: 10%
Drive: 27%
Walk: 6%

Station Benefits
• Airport mixed use development plans
• Transfer opportunity with TEXRail outside of DFW Airport terminal area
• Shared parking

Key Community Comments
• Supported by DFW Airport
• Supported by Fort Worth Transportation Authority
• Interest in Transit-Oriented Development
Art & Design Program
DFW North Station
Art & Design Program
DFW North Station
Art & Design Program
DFW North Station
Art & Design Program
DFW North Station
Art & Design Program
DFW North Station
Cypress Waters Station
Art & Design Program
Cypress Waters Station

Station Facts
Platform Type: Center
Parking Spaces: 199
Bus Bays: 4
Bus Routes: 2
Projected Daily Ridership:
Opening Day: 200
2040: 910
Mode of Access:
Bus Transfer: 17%
Drive: 36%
Walk: 47%

Station Benefits
• Transit-Oriented Development opportunity
• Serves Cypress Waters via pedestrian trails and bus network
• Large employment centers in area
• Provides opportunity for station in DART Service Area

Key Community Comments
• Supported by City of Coppell Council Resolution
• Supported by City of Dallas
• Supported by Cypress Waters developer
• Coppell citizen support for station
Art & Design Program
Cypress Waters Station
Art & Design Program
Cypress Waters Station
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Thank You
Hike & Bike Trail
Hike & Bike Trail

• The Hike & Bike Trail is being funded through an Interlocal Agreement with the North Central Texas Council of Governments (NCTCOG)

• NCTCOG is working with participating cities to develop the project

• DART will complete final design of the Cotton Belt/Silver Line Corridor Hike and Bike Trail
Hike & Bike Trail

Typical Cross Section Hike and Bike Trail on One Side
Hike & Bike Trail Map
Questions About Hike & Bike Trail

North Central Texas Council of Governments
Kevin Kokes
KKokes@nctcog.org
817-695-9275

City of Coppell
Traci Leach
TLeach@coppelltx.gov
972-304-3672

City of Dallas
Gus Khankarli
Ghassan.Khankarli@dallascityhall.com
214-671-9957

City of Dallas Parks & Recreation Department
Jared White
Jared.White@dallascityhall.com
214-670-4090
Silver Line Vehicle Information
Silver Line Vehicle Information

- Automatic Passenger Counters (APC)
- Vehicle Business System (VBS)
- Closed Circuit Television System (CCTV)
- Number of seats per vehicle: 230
Silver Line Vehicle Information

Overview

*Single Vehicle
Silver Line Vehicle Information
Overview - Exterior

HVAC Enclosure
Silver Line Vehicle Information

Overview - Exterior

Wheel Skirts

WHEEL SKIRT EXAMPLE
(STILL UNDER DESIGN)
Silver Line Vehicle Information
Overview - Interior

INTERIOR SEATING

ENTRANCE AREA
Silver Line Vehicle Information

Overview - Interior

- Interior Lighting
- Overhead Luggage Carriers
Silver Line Vehicle Information
Overview - Interior

WHEELCHAIR ACCOMMODATION

BICYCLE RACKS

*Vehicles are level boarding to accommodate easy access of wheelchairs, bicycles, luggage and etc.
Silver Line Vehicle Information

Vehicle Frequency

- Weekday service is currently scheduled to be from 6:00 a.m. to 9:00 p.m.
- Service hours could be as early as 5:00 a.m. or as late as 11:00 p.m.
- 30-minute peak and 60-minute non-peak
Silver Line Vehicle Information

Carbody Assembly

Vehicle roof and underframe

Vehicle passenger car
Quiet Zones & Sound Mitigation
Quiet Zones

- DART Silver Line crossings in residential areas are proposed to be quiet zones
- Quiet zone mitigations are independent of the sound wall mitigations
- Establishing quiet zones will require cooperative action among the municipalities along the Silver Line, the Federal Railroad Administration (FRA), the freight railroads and DART
- The type of protection will be determined during design of the intersection
# Quiet Zones

## Quiet Zone Crossings - Coppell

<table>
<thead>
<tr>
<th>STREET</th>
<th>CITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coppell Road</td>
<td>Coppell</td>
</tr>
<tr>
<td>Southwestern Boulevard</td>
<td>Coppell</td>
</tr>
<tr>
<td>East Belt Line Road</td>
<td>Coppell</td>
</tr>
<tr>
<td>Moore Road</td>
<td>Coppell</td>
</tr>
<tr>
<td>Mockingbird Lane</td>
<td>Coppell</td>
</tr>
<tr>
<td>S MacArthur Boulevard</td>
<td>Coppell</td>
</tr>
<tr>
<td>Fairway Drive</td>
<td>Coppell</td>
</tr>
<tr>
<td>Freeport Drive</td>
<td>Coppell</td>
</tr>
<tr>
<td>Royal Lane</td>
<td>Coppell</td>
</tr>
<tr>
<td>*Huntington Road (Cypress Waters)</td>
<td>Coppell/City of Dallas</td>
</tr>
</tbody>
</table>
### Sound Mitigation

**Vehicle Noise Control / Infrastructure and Operational Noise Control Measures**

<table>
<thead>
<tr>
<th>FEIS Mitigation Measures:</th>
<th>Additional Noise Reduction Measures:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precast Concrete Reflective Sound Wall – Track and Neighborhood Side</td>
<td>Durisol Absorptive Sound Wall Enhancement – Track Side Only</td>
</tr>
<tr>
<td>12' Sound Wall</td>
<td>15' Sound Wall / Betterment Wall – 3’ foot increase</td>
</tr>
<tr>
<td>Quiet Zones at Rail Crossings in Residential Areas</td>
<td>Vehicle wheel skirts, HVAC enclosure (Baffler) and variable speed cooling fans</td>
</tr>
<tr>
<td>Directional Electronic Crossing Warning Bells will be at 7 locations (5 in Dallas)</td>
<td>Vehicle is quieter than initially assumed in the noise analysis</td>
</tr>
<tr>
<td></td>
<td>Maximum speed of 45-mile per hour in North Dallas</td>
</tr>
<tr>
<td></td>
<td>Directional Electronic Crossing Warning Bells will be used at all at-grade crossings</td>
</tr>
<tr>
<td></td>
<td>Betterment walls added in locations that do not meet the warrants for noise mitigation</td>
</tr>
</tbody>
</table>
Construction Update
Construction Update

• Dry utility relocation
• Design survey and surface utility investigation
• Freight rail removal
• Silver Line rail delivery and off loading
• Grubbing and clearing
• Schedule and notification:
  – Lane restrictions
  – Closures
  – Detours

Removal of rail spikes
Construction Update

Boring testing along Belt Line Road
Construction Update

Backfilling new pipe installation
Construction Update

Excavating for a bore pit
Construction Update

Future infrastructure excavating new trench for Sprint fiber
Construction Update

Future infrastructure setting bore tracks
Construction Update

Bobcat installing pipe in open trench
Upcoming Construction Activity

Construction Equipment

Front-end Loader

Trackhoe Excavator

Bobcat

Motor Grader

Track Loader

Backhoe

Crane

*NOT AN ALL-INCLUSIVE LIST*
Upcoming Construction Activity

- Schedules and Notification:
  - Lane restrictions
  - Closures
  - Detours
- Wet and dry utility relocation
- Excavation and embankment
- Clearing and grubbing
- Retaining walls
- Bridge structures
- Heavy construction

Dust mitigation
Upcoming Construction Activity

Public Access

• Maintain business access
• Maintain home and community access
• Maintain access for emergency vehicles
• Maintain pedestrian access
Upcoming Construction Activity

Maintenance of Traffic

- Schedules and notification deadlines
- Lane restrictions
- Closures
- Detours
Construction Notifications

- Construction Activity Notifications (Doorhangers, Emails, Social Media, etc.)
- DART and Archer Western Herzog Project Websites
- DART Silver Line Project Newsletters
- DART Silver Line Project At-A-Glance Fact Sheets
- Quarterly Design and Construction Community Meetings
- Stakeholder Meetings with Businesses and Residents
- Project Hotline: 972-833-2856
Construction Notifications

- DART Silver Line Fact Sheets
  - DFW International Airport / City of Grapevine
  - City of Dallas / Coppell
  - City of Carrollton
  - Town of Addison
  - City of Richardson
  - City of Plano
Construction Safety

10 Construction Safety Tips

With construction about to begin on the Silver Line Project along the historic Cotton Belt Regional Rail Corridor, DART reminds everyone that construction areas can be very dangerous. Play it safe by following these 10 tips:

1. **STOP, LOOK AND LISTEN**
   Phones, video games and other electronic devices can be distracting.

2. **REMOVE EARBUD OR TURN VOLUME DOWN**
   Headphones can keep you from hearing approaching bulldozers, dump trucks and other construction vehicles.

3. **AVOID DANGERS**
   Do not walk, ride, run, hang out or play in construction zones or work areas, as heavy machinery and debris pose dangers.

4. **OBEY SIGNALS**
   Always obey all traffic signs and signals; never assume you have the right-of-way - and look both ways before crossing.

5. **USE CROSSWALKS**
   Use sidewalks and cross only at designated crosswalks, as construction vehicles make sudden stops and wide turns.

6. **SEE AND BE SEEN**
   Make eye contact with construction vehicles before crossing.

7. **WATCH OUT**
   Observe all construction signs and warnings.

8. **KEEP AWAY**
   Keep away from construction fencing and traffic cones - they’re there to protect you.

9. **BE ON THE LOOKOUT**
   Watch out for falling objects, moving vehicles and other hazards.

10. **START TALKING**
    Safety begins with you. Talk to your family.
Construction School Safety

School Districts
- Coppell ISD
  - All schools
  - Pinkerton Elementary
Construction School Safety – Map
Construction School Safety – Map
Construction School Safety Program

- Communicate construction updates and safety information directly with Pinkerton Elementary and Coppell ISD staff
- Work with Pinkerton Elementary, Coppell ISD, and City of Coppell staff to help manage safe traffic flow along Southwestern Blvd. and other rail crossings, especially for pickup and drop-off schedules for students and parents
- Participate in school and community events with Pinkerton Elementary and Coppell ISD to promote transit safety and awareness campaigns
- Provide transit education material, resources, and programs to students, parents, and staff at Pinkerton Elementary and Coppell ISD through online curriculums, virtual presentations, and virtual tours of the DART System
- Offer interactive and virtual Career Day Programs to Pinkerton Elementary and Coppell ISD students and teachers, focusing on Science, Tech, and Math (STEM) careers, educational background, and skills required for a career in public transportation
- Work to ensure each school building has pertinent DART/AWH contact information
- Establish proactive and conducive relationships with area school administrators to enhance communication flow

let's go.
## Construction 90-Day Schedule

### CITY OF COPPELL

<table>
<thead>
<tr>
<th>Civil</th>
<th>NOVEMBER 2020</th>
<th>DECEMBER 2020</th>
<th>JANUARY 2021</th>
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<tbody>
<tr>
<td>Clear &amp; Grub Guideway</td>
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<tr>
<td>Stormwater Prevention Protection Plan</td>
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<tr>
<td>(SWPPP) Installation</td>
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<td>Rail</td>
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<td>Rail Delivery</td>
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<tr>
<td>Stations</td>
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<tr>
<td>Clear &amp; Grub Cypress Waters Station</td>
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<tr>
<td>Structures</td>
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<td>Belt Line Rd. Bridge No. 7</td>
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<tr>
<td>Systems/Electrical</td>
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<td>No Activity</td>
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<tr>
<td>Traffic</td>
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<tr>
<td>Daily Lane closures (Non-Major)</td>
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<td></td>
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<tr>
<td>Utilities</td>
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<tr>
<td>No Activity</td>
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School Outreach Update
School Outreach Update – Coppell ISD

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