



## Mainline Bid Package Authorization

August 2016

**JACOBS®**

# Mainline Bid Package Authorization



# Bid Package Contents



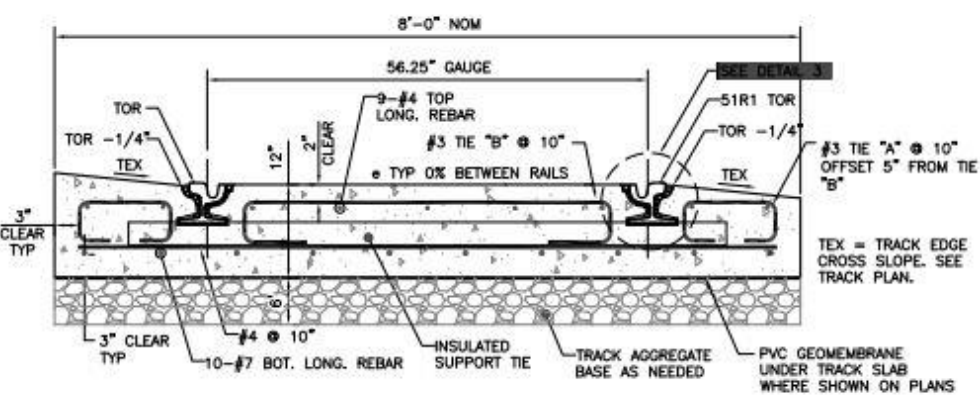
- Civil
  - Final route review (map video presentation)
  - Track slab and rail (detail, installation pic)
- Utilities Relocation
- Electrical Systems
  - OCS and on/off wire
  - TPSS
- Stops
  - Platforms
  - Shelters (Brasco, Stop 5 wind wall)
  - Marker pylons

# Mainline Final Route Review

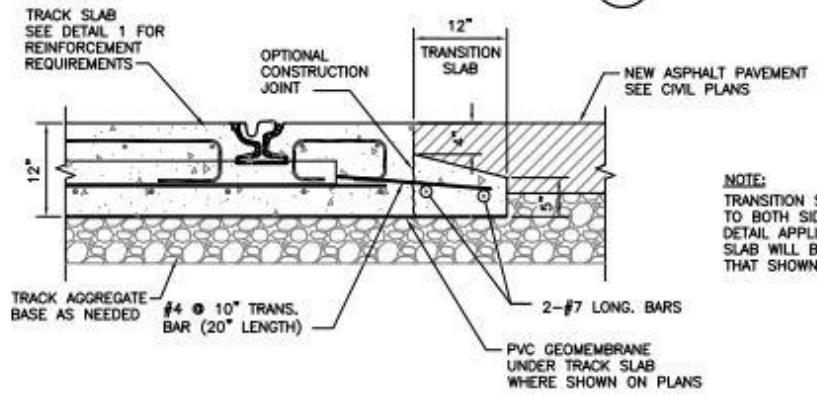


See Flyover Video

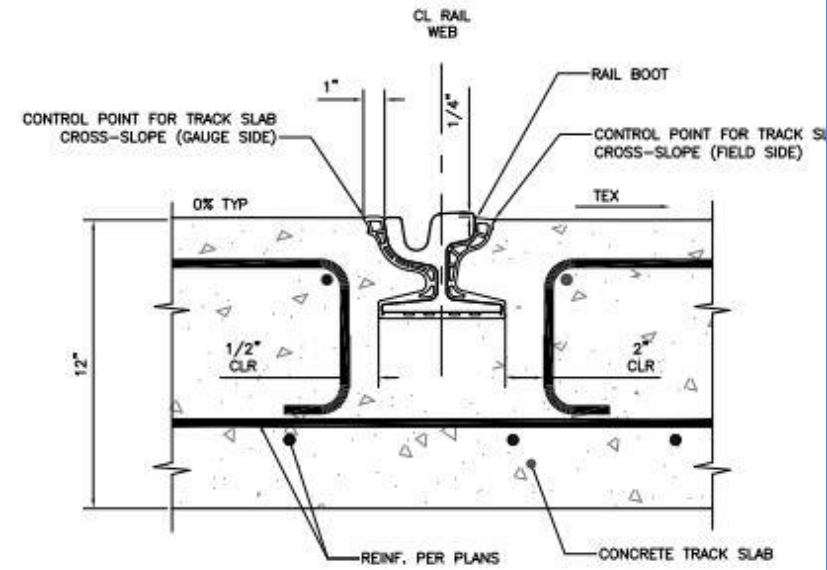
# Track Slab and Rail Design



**51R1 TRACK SLAB TYPICAL** (1)  
SCALE: NTS



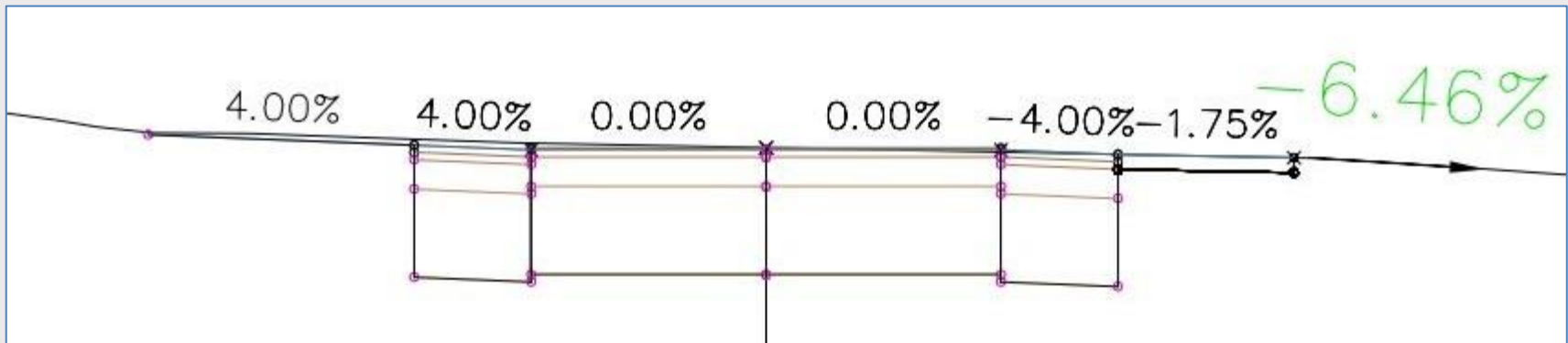
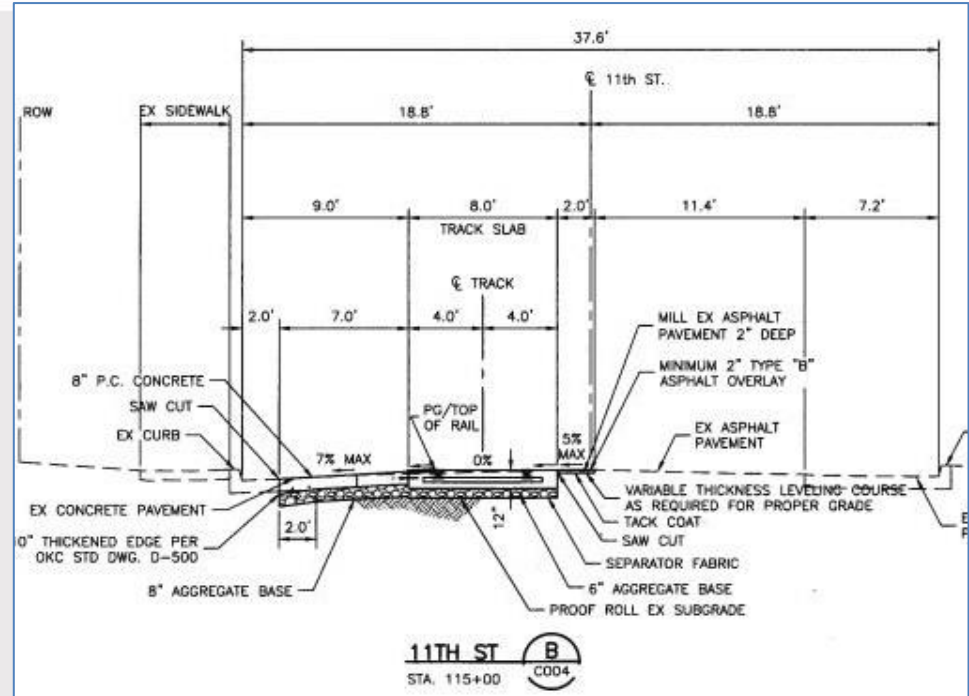
**NOTE:**  
TRANSITION SLAB AS SHOWN APPLIES TO BOTH SIDES OF THE TRACK SLAB. DETAIL APPLIED TO LEFT SIDE OF SLAB WILL BE MIRROR IMAGE OF THAT SHOWN.



**51R1 RAIL WITH BOOT** (3)  
SCALE: NTS  
K100

# Roadway Grading Design

## Roadway Grading



# Track Slab Construction



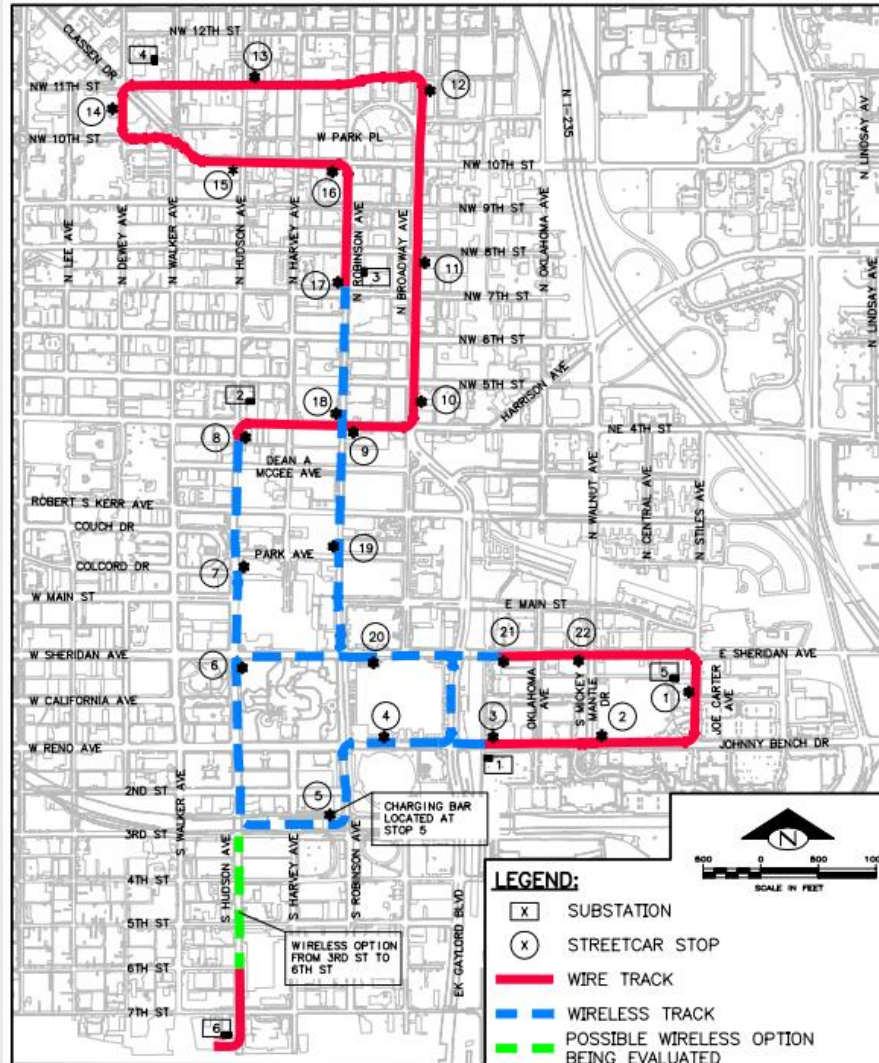
# Public Utilities Relocations

- Water
  - Parallel water lines
  - Meters
  - Services
  - Valves
- Sanitary Sewer
  - Parallel sewer lines
  - Manholes
- Storm Sewer
  - Inlet
  - Manholes



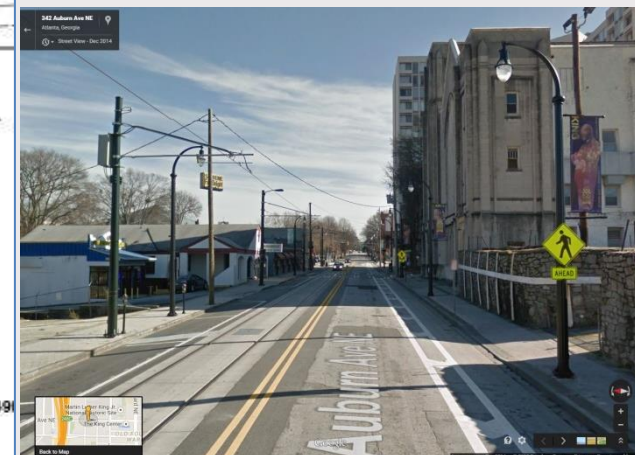
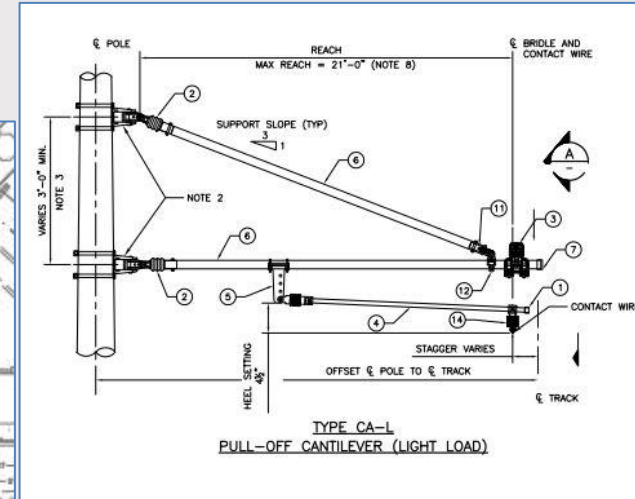
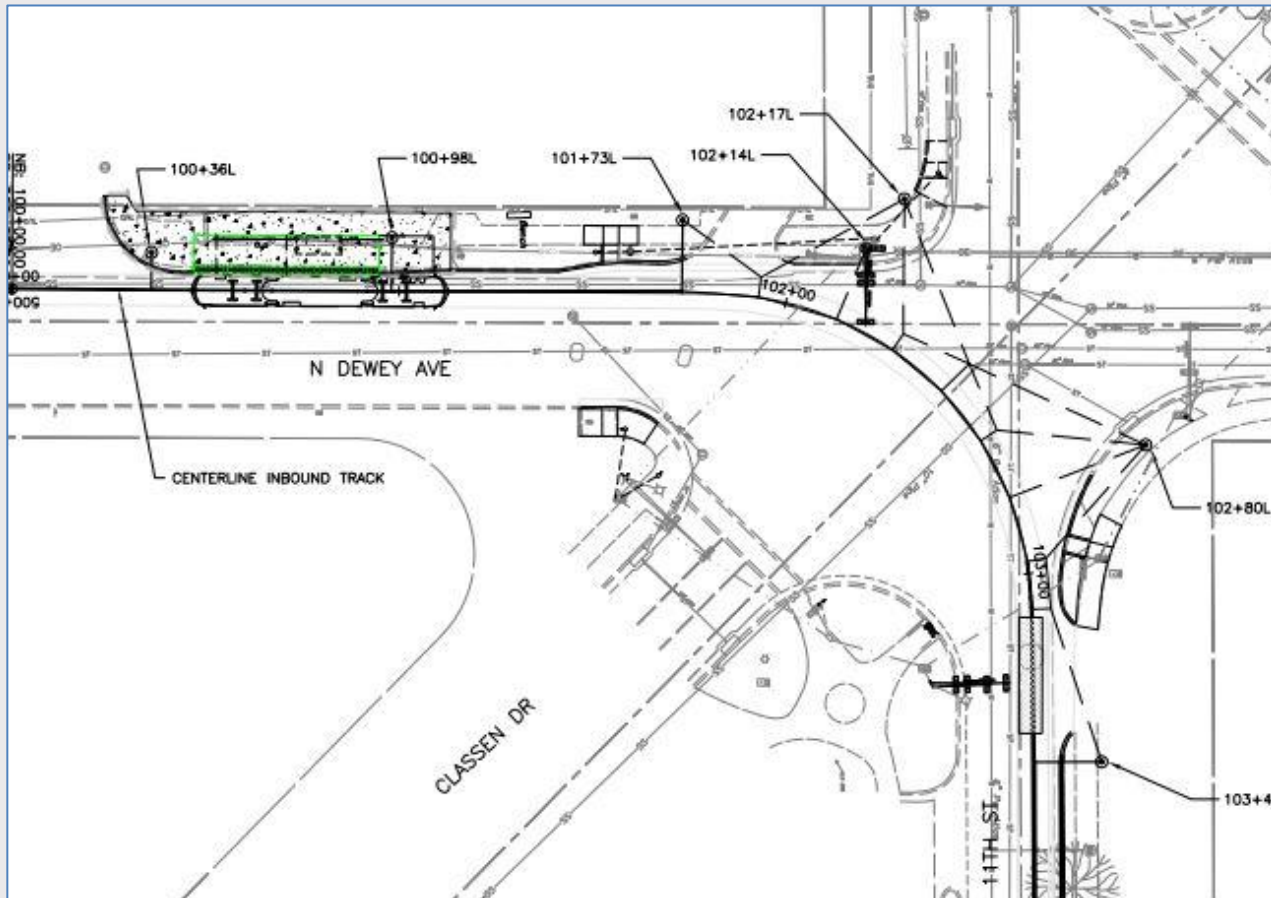


# Electrical Systems – On/Off Wire

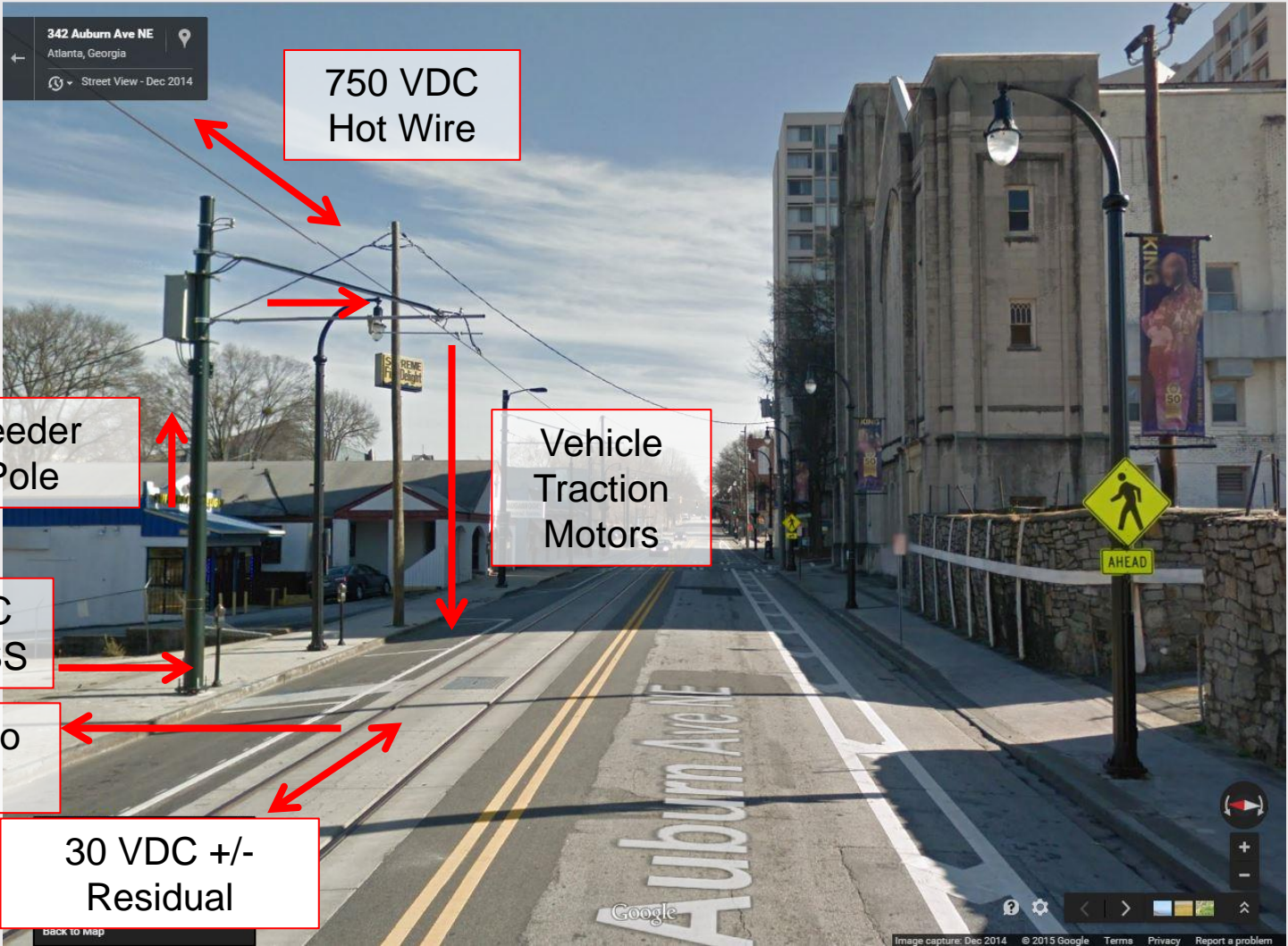


# Electrical Systems -- OCS

- OCS Pole Layout and Details



# OCS – Cantilever Poles



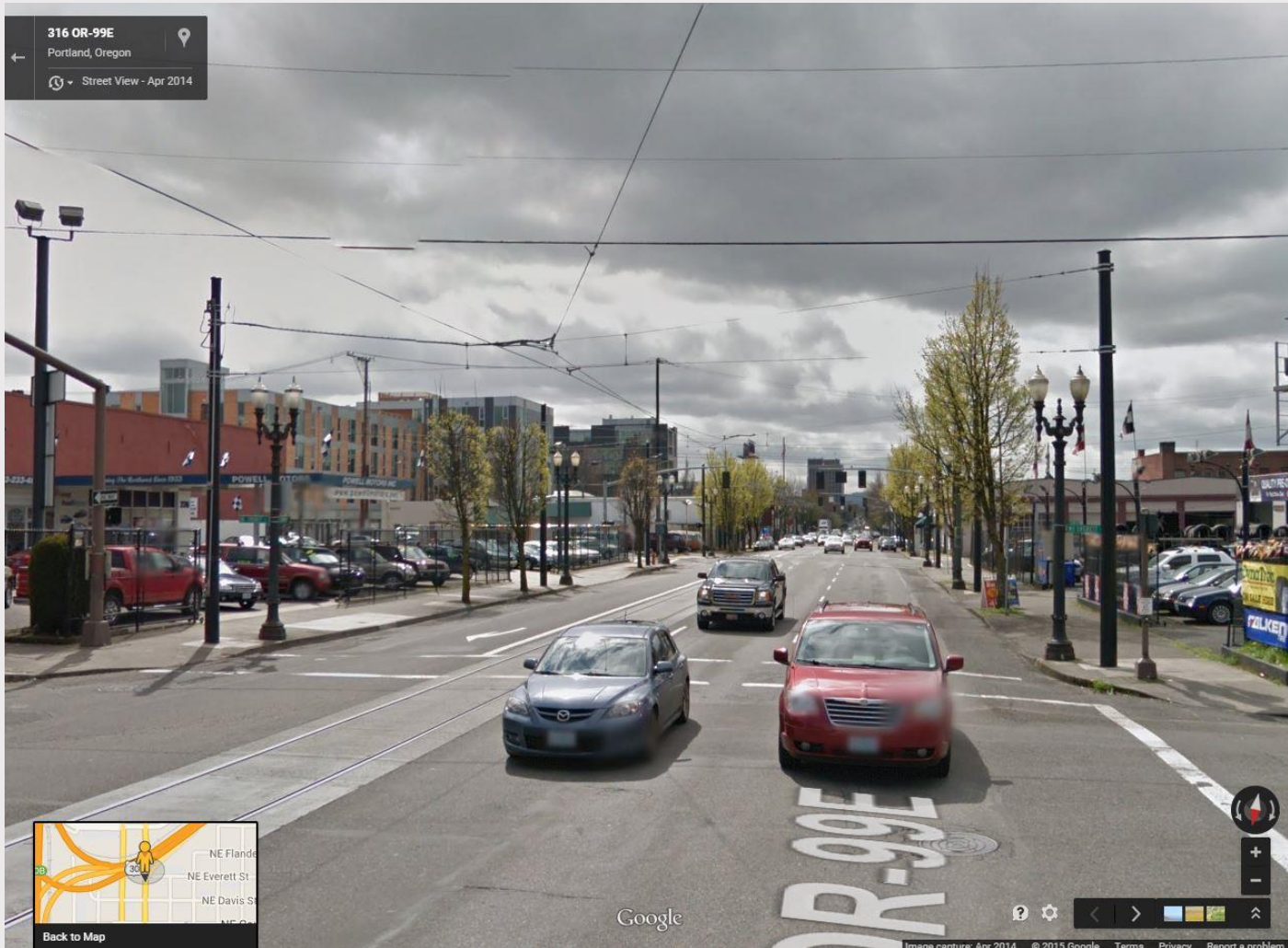
# OCS – Typical Corner



# OCS – Typical Corner with Combined Poles



# OCS – Span Wires



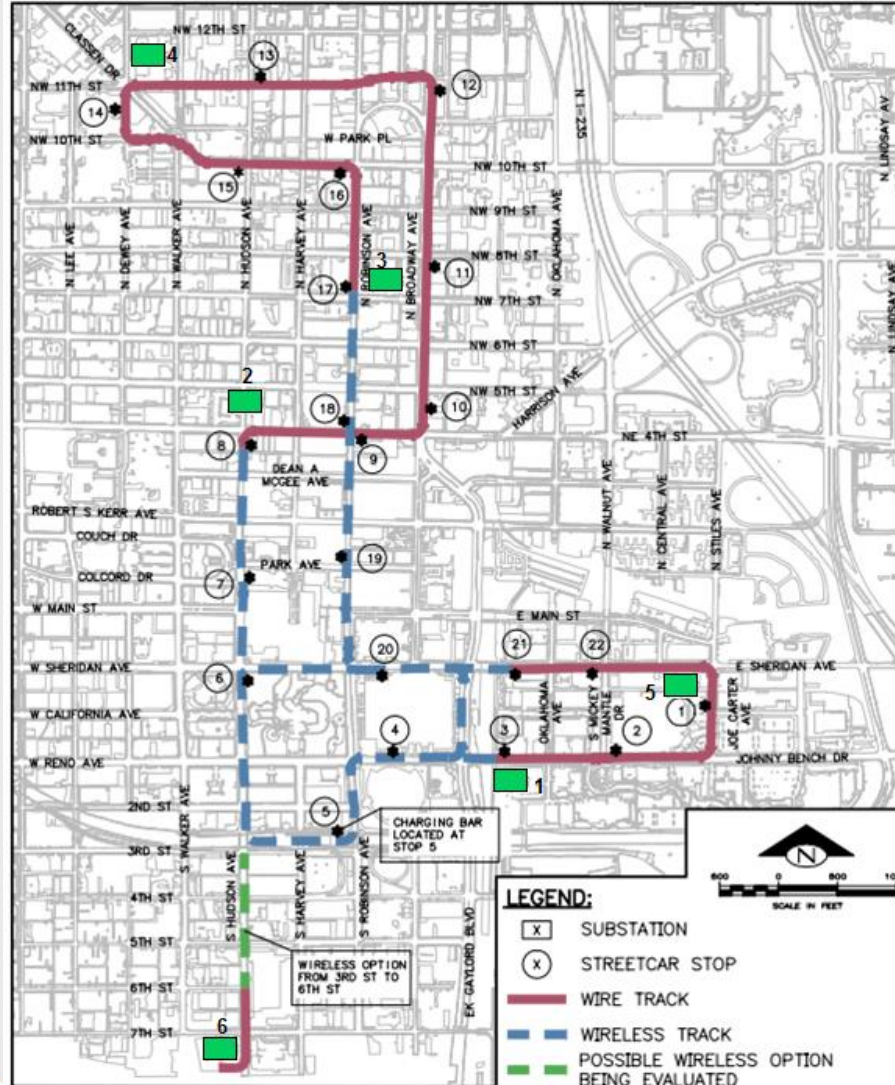
# Mainline Design

- **Typical TPSS**



# TPSS Locations

TPSS 2, 3, 4  
Serve Midtown

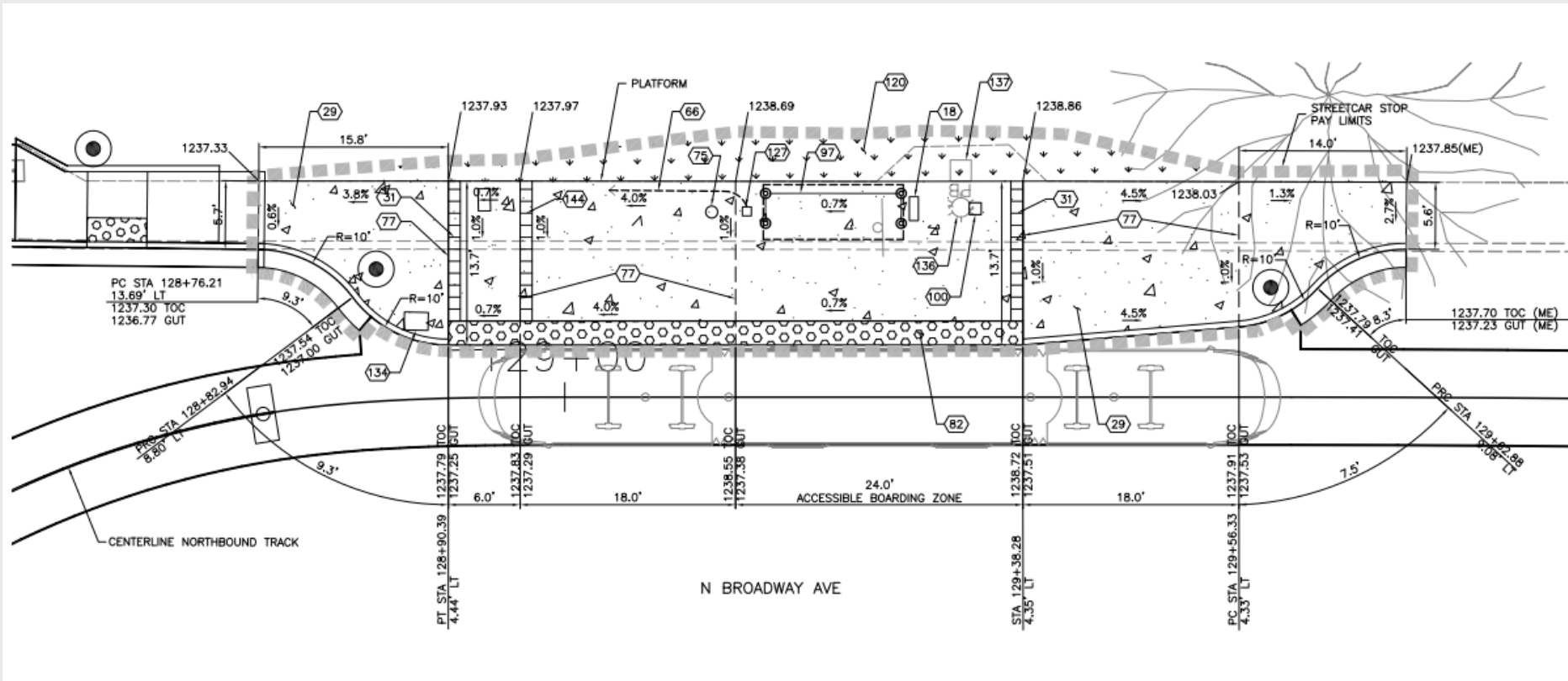


TPSS 1,5 Serve  
Bricktown

TPSS 6 Serves  
S&MF and Stop 5

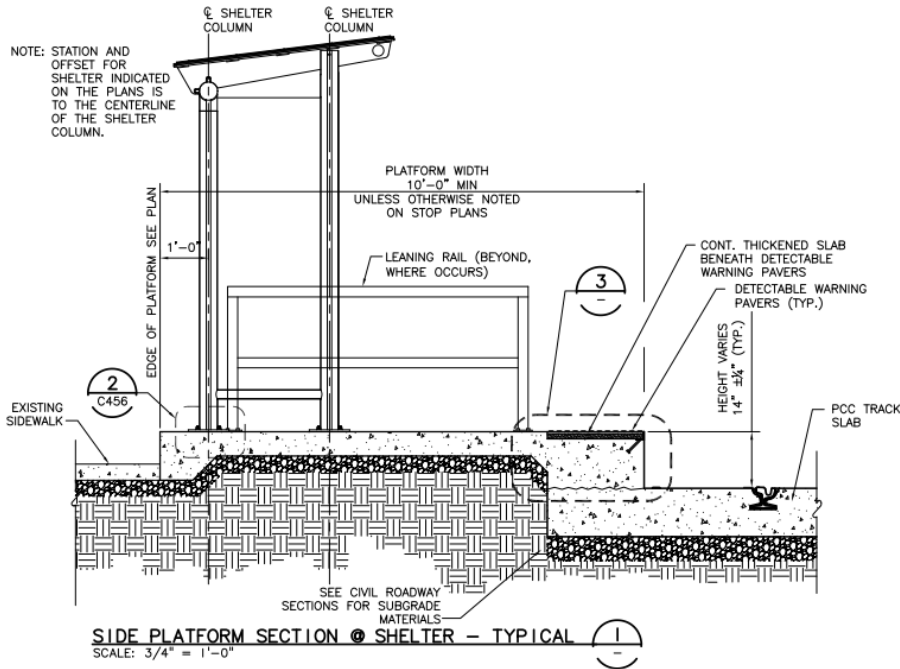


# Typical Stop Design



TVM and Pylon Location Being Developed by Embark

# Stop Shelter



# Stop 5 Windbreak



# Engineer's Opinion of Cost



- Mainline Base Bid Estimate = \$57,171,306
- Estimates for Deductive Alternates:
  - Alt 1 – Remove Hudson Wye = (\$256,733)
  - Alt 2 – Remove Hudson OCS = (\$435,699)
  - Alt 3 – Remove OCS at S&MF = (\$77,774)
  - Alt 4 – Remove TPSS 4 = (\$1,617,177)
- Total Deductive Alternates = (\$2,387,383)

# Mainline Schedule



- August 31 – Issue Bid
- September 15 – Mandatory Pre-Bid
- October 11 – Open Bids
- October 26 – Subcommittee
- November 8 – City Council
- November 9 – NTP
- November 15 – Kick-Off
- Sep 2017 – Complete Tracks inside Maintenance Bldg.
- Oct 2017 – Complete Non-rev track on Hudson and in yard
- Mar 2018 – Complete Bricktown Loop
- Aug 2018 – Complete Midtown Loop
- Nov 2018 – Final Completion of all work

# Comments/Questions

