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- NB STA 2173+00 TO STA 2177+00
- SB STA 1165+00 TO STA 1169+00
- SB STA 1121+00 TO STA 1125+00
- NB STA 2113+00 TO STA 2117+00
- NB STA 2097+00 TO STA 2101+00
- SB STA 1093+00 TO STA 1097+00
- SB STA 1073+00 TO STA 1077+00
- NB STA 2117+00 TO STA 2121+00
- NB STA 2101+00 TO STA 2105+00
- NB STA 2081+00 TO STA 2085+00
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**NOT FOR CONSTRUCTION**
1. All materials and work required for the project shall conform to the Kansas City Metro Chapter APWA Standard Specifications (and supplements) and design criteria, as revised, adopted and provided by KCMO on the KCMO.gov website.

2. Right-of-way lines shown are based on recorded survey information on record with the City of Kansas City and Jackson County.

3. Contractor to verify vertical clearances from the proposed tracks to overhead facilities (electric, cable, telephone).

4. All gradients are in percent unless noted otherwise.

5. The Kansas City Streetcar track is designed per the Kansas City Streetcar design criteria.

6. Stationing shown on typical sections is approximate. All stationing refers to northbound track, unless noted otherwise.

7. Guidelines from the American Railway Engineering and Maintenance-of-Way Association's (AREMA) "Manual for Track Engineering" latest edition, are used for various aspects of the design.


9. Track profiles represent top of rail profile unless noted otherwise. Where applicable, siding top of rail profile similar.

10. The rail profile is always carried on the low rail through superelevated horizontal curves and spirals.

11. Superelevation is accomplished by maintaining top of inside (low) rail at profile grade and by raising outside (high) rail an amount equal to the superelevation.

12. Utilities shown on the plan sheets are based on information received from municipalities, agencies, and private companies. All existing utility locations are approximate and require field verification through potholing and field survey.

13. Tracks on plan and profile drawings are indicated by centerline of track. Except where indicated, offset distances from track to other facilities are measured from centerline of track.

14. For No. 4 turnouts, stationing through diverging less of turnouts is measured on the centerline of track and along the tangent extension lines of the turnout. Track lengths through the turnout run from the point of switch (PT-SW) at the point of intersection of the turnout (PT-T) and along the tangent of the turnout closure curve to the end of the turnout curve and beyond. See sheets K051-K086 for stationing through 25 meter turnouts.

15. Turnout headblock ties and switch machines shall be installed between the rails at the location labeled as PT-SW on the plans.

16. Contractor to review geotechnical report for existing conditions.

17. The Kansas City Streetcar project is federally funded; all materials must meet Buy America requirements.

18. These general notes are general in nature and projectwide. Any notes on specific sheets that are in conflict supersede these general notes.
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND AND NORTHBOUND TRACK
DEMOLITION PLAN
STA BEGIN TO STA 1001+00
STA 1001+00 TO STA 1005+00

EXISTING R/W
BROOKSIDE BLVD

E SOUTHBOUND TRACK

E NORTHBOUND TRACK

STA 1000+00

MATCHLINE BELOW

SCALE

0 20 40 60

MATCHLINE ABOVE

SCALE

0 20 40 60

MATCHLINE ABOVE

SCALE

0 20 40 60

REMOLLLMTS

REMOVAL LIMITS

LEGEND

D101

08
SOUTHBOUND AND NORTHBOUND TRACK REMOVAL LIMITS

SOUTHBOUND TRACK
EXISTING R/W
SAWCUT LINE

NORTHBOUND TRACK
EXISTING R/W
SAWCUT LINE

MATCHLINE STA. 1053+00
MATCHLINE ABOVE
MATCHLINE BELOW
MATCHLINE STA. 1061+00

STATION & SIDEWALK IMPROVEMENTS

LEGEND

SCALE

H: 1"=20'

SOUTHBOUND AND NORTHBOUND TRACK
DEMOLITION PLAN
STA 1053+00 TO STA 1057+00
STA 1057+00 TO STA 1061+00

KANSAS CITY STREETCAR MAIN STREET EXTENSION
PRELIMINARY PLANS - 15%
DATE, 02-25-2019

NOT FOR CONSTRUCTION
DEMOLITION PLAN

SOUTHBOUND AND NORTHBOUND TRACK

STA 1093+00 TO STA 1097+00
STA 1097+00 TO STA 1101+00

LEGEND

- REMOVAL LIMITS

SCALE

60
40
20
0

MACHLINE ABOVE

MACHLINE STA. 1093+00

MACHLINE STA. 1101+00

EXISTING R/W

SAWCUT LINE

SOUTHBOUND TRACK

NORTHBOUND TRACK

KANSAS CITY STREETCAR MAIN STREET EXTENSION

PRELIMINARY PLANS - 15%

DATE: 02-28-2019

NOT FOR CONSTRUCTION
Southbound and Northbound Track Demolition Plan

 STA 1117+00 TO STA 1121+00
 STA 1121+00 TO STA 1125+00

Legend:
- Existing R/W
- Sawcut Line
- Northbound Track
- Southbound Track
- Removal Limits

SCALE:
- 60
- 40
- 20
- 0

KANSAS CITY STREETCAR MAIN STREET EXTENSION
Preliminary Plans - 15%
Date: 02-26-2019

Not for Construction
SOUTHBOUND AND NORTHBOUND TRACK
DEMOLITION PLAN
STA 1149+00 TO STA 1153+00
STA 1153+00 TO STA 1157+00

LEGEND

- REMOVAL LIMITS

SCALE

60
40
20
0

DEMOLITION PLAN
MACHLINE STA. 1149+00
MACHLINE ABOVE
MACHLINE STA. 1153+00
MACHLINE STA. 1157+00

EXISTING R/W
SAWCUT LINE
SOUTHBOUND TRACK
NORTHBOUND TRACK

H: 1"=20'

KANSAS CITY STREETCAR MAIN STREET EXTENSION
PRELIMINARY PLANS - 15%
DATE, 02-26-2018

PHOTO CREDIT: HDR Engineering, Inc.

Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
KANSAS CITY STREETCAR MAIN STREET EXTENSION
02-25-2019

FILENAME:
D120.dgn

DRAWING NO.:

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

2/25/2019
PLOT DATE:

4:25:02 PM

DATE:

 sheet 27
Matchline Sta. 1165+00

Southbound Track

EXISTING R/W

Sawcut Line

Matchline Above

Matchline Below

2165+00

STA 2165+00

End Curb & Sidewalk Improvements

STA 1166+18

Begin Curb & Sidewalk Improvements

2/25/2019

FILEDATE:

D122.dgn

Scale: 1"=20'

Legend

REMOVAL LIMITS

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SOUTHBOUND AND NORTHBOUND TRACK

DEMONSTRATION PLAN

STA 1165+00 TO STA 1169+00

STA 1169+00 TO STA 1173+00

Certificate of Authority: 000856

816-360-2700

Kansas City, MO 64131-3471

Suite 600

10450 Holmes Road

PRELIMINARY PLANS - 15%

DATE: 02-25-2019

FILEDATE:

D122.dgn

Scale: 1"=20'

Legend

REMOVAL LIMITS
MATCH LINE STA. 1181+00
SAWCUT LINE
MATCH EXISTING
& SOUTHBOUND TRACK
EXISTING R/W
EXISTING STREETCAR

SOUTHBOUND AND NORTHBOUND TRACK
DESTRUCTION PLAN
STA 1181+00 TO STA 1185+00

LEGEND

SCALE

REMOVAL LIMITS
**GENERAL NOTES**

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, STRUCTURES, AND DRAINAGE SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR
   DETAILED INFORMATION ON CIVIL, TRACKING,
   SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE
   IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL
   ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SIGNALING, STRUCTURAL, AND DRAINAGE SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, ELECTRICAL, STRUCTURAL, AND MECHANICAL SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, HARNESS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. See discipline-specific drawings for detailed information on civil, traffic, systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to rail top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK PROFILE
WARD PARKWAY
NB STA 2021+00 TO STA 2025+00

Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
1. See discipline-specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
EMANUEL CLEAVER II BLVD
NB STA 2025+00 TO STA 2029+00

H: 1"=20'   V: 1"=2'
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAIL INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
ALTERNATIVE LEFT TURN LANE CONCEPT FOR AMERICAN CENTURY

GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, STRUCTURAL, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK PLAN AND PROFILE
46TH STREET (ALT LEFT TURN) SB STA 1029+00 TO STA 1033+00

NOT FOR CONSTRUCTION
### GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

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### SCALE FOR 22"x34"

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<tr>
<td>2033+00</td>
<td>2036+00</td>
</tr>
<tr>
<td>2037+00</td>
<td></td>
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</tbody>
</table>

### PROFILE NORTHBOUND TRACK

- **NB STA 2033+00 TO STA 2037+00**
- **KANSAS CITY STREETCAR MAIN STREET EXTENSION**
- **NORTHBOUND TRACK PROFILE**
- **DATE: 02-25-2019**
- **CONTRACT NO.: HDR Engineering, Inc.**
- **Certificate of Authority: 000856**
- **816-360-2700**
- **KANSAS CITY, MO 64131-3471 Suite 600 10450 Holmes Road**

### TRACK SECTION

- **GROUND EXISTING**
- **GROUND**
- **TRACK NORTHBOUND**
- **TRACK**
- **EXISTING GROUND**

### ELEVATION

- **4. PROFILES DESIGNED TO FINAL TOP OF RAIL**
- **3. ALL CURVES ARE BASED ON ARC DEFINITION.**
- **2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.**
- **1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.**
### General Notes

1. See discipline specific drawings for detailed information on civil, traffic, structural, and drainage systems, and drainage structures.

2. All Elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

---

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**Southbound Track Plan and Profile**

45TH STREET

SB STA 1037+00 TO STA 1041+00

**Construction Notes**

---

**Key**

**Date**

**Description**

**Cell 1**

**Cell 2**

**Cell 3**

**Cell 4**

**Cell 5**

---

**Scale**

0 20 40 60

**H:** 1" = 20'

**V:** 1" = 2'

---

**EXISTING R/W**

**M.A.T.C.H. LINE STA. 1037+00**

**NORTHBOUND TRACK**

**SOUTHBOUND TRACK**

**EXISTING R/W**

**MATCHLINE STA. 1041+00**

---

**STOP**

**STREETCAR**

**CONSTRUCT**

**STREETCAR STOP**

---

**ELEVATION.**

**4. PROFILES DESIGNED TO FINAL TOP OF RAIL**

**3. ALL CURVES ARE BASED ON ARC DEFINITION.**

**2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.**

**1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.**

---

**SB STA 1037+00 TO STA 1041+00**

**45TH STREET**

---

**Patrice Engineering, Inc.**

Certificate of Authority: 000856

Kansas City, MO 64131-3471

Suite 600

10450 Holmes Road

816-360-2700

---

**Prepared By:**

**Drawn By:**

**Approved By:**

**Designed By:**

**Checked By:**
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
45TH STREET
NB STA 2037+00 TO STA 2041+00

H: 1"=20'   V: 1"=2'

2039+00
2038+00
2037+00
2041+00
2040+00

STOP LOCATION

NB STA 2037+00 TO STA 2041+00

2/25/2019

PLOT DATE:

FILENAME:
K111A.dgn

DRAWING NO.:

VOLUME:
1

SCALE FOR 22"x34":

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

PRELIMINARY PLANS - 15%
GENERAL NOTES
1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILE DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK
PLAN AND PROFILE
SB STA 1041+00 TO STA 1045+00

DRAWING NO.:
K112
FILENAME:
K112.dgn
DATE:
2/25/2019
DRAWN BY:
CERTIFICATE OF AUTHORITY:
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
816-360-2700
Certificate of Authority: 000856
PRELIMINARY PLANS - 15%
816-360-2700
RPB
NKS
JWR
DATE:
02-25-2019
56
H: 1"=20'   V: 1"=2'
SCALE FOR 22"x34":
1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILE DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL DIMENSIONS AND ELEVATIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

NORTHBOUND TRACK
PROFILE
NB STA 2041+00 TO STA 2045+00

FILENAME: K112A.dgn
DRAWING NO.: K112A
CONTRACT NO.: 02-25-2019
PRELIMINARY PLANS - 15%
CIVIL ENGINEERING
H: 1"=20'   V: 1"=2'

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
### GENERAL NOTES

1. **See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.**
2. **All elevations and dimensions given are in feet unless otherwise noted.**
3. **All curves are based on arc definition.**
4. **Profiles designed to final top of rail elevation.**

### TRACK SECTION

**Northbound Track**

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<tr>
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<td>2046+00</td>
<td>902</td>
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<td>2047+00</td>
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<td>2049+00</td>
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**Existing Grade**

- **Greenline:**
  - 900
  - 902
  - 904
  - 906
  - 908

- **Existing Structures:**
  - **44TH STREET PROFILE**
  - **NORTHBOUND TRACK**

---

**Acknowledgments:**

- HDR Engineering, Inc.
- Certificate of Authority: 000856
- 816-360-2700
- Kansas City, MO 64131-3471
- Suite 600
- 10450 Holmes Road

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

- **Northbound Track**
- **Profile**
- NB STA 2045+00 TO STA 2049+00

---

**Notes:**

- **PRELIMINARY PLANS - 15%**
- **DATE:** 02-25-2019
- **NOT FOR CONSTRUCTION**

---

** tha5...**

- **DRAWING NO.:** K113A
- **FILENAME:** K113A.dgn
- **SCALE FOR 22"x34":**

---

**DRAWN BY:**

- **APPROVED BY:**
- **DESIGNED BY:**
- **CHECKED BY:**
- **VOLUME:** 1
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK
PLAN AND PROFILE
43RD STREET
SB STA 1049+00 TO STA 1053+00

SOUTHBOUND TRACK
EXISTING R/W

NORTHBOUND TRACK
EXISTING R/W

CONTRACT NO.: 000856
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
43RD STREET
NB STA 2049+00 TO STA 2053+00
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
43RD STREET
NB STA 2053+00 TO STA 2057+00

CONSTRUCTION NOTES
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND OTHER STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
VIETNAM VETERANS MEMORIAL DRIVE
NB STA 2057+00 TO STA 2061+00
1. See discipline specific drawings for detailed information on civil, traffic, electrical, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail Elevation.
1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
**GENERAL NOTES**

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

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**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**NORTHBOUND TRACK**

PROFILE

<table>
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**SCALE FOR 22"x34":**

H: 1"=20'  V: 1"=2'
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK
PLAN AND PROFILE
40TH STREET
SB STA 1069+00 TO STA 1073+00

CONSTRUCTION NOTES

EXISTING R/W

SCALE FOR 22\"X34\"

H: 1"=20'   V: 1"=2'

K119.dgn

HDR Engineering, Inc.

Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

PRELIMINARY PLANS - 15%
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
40TH STREET
NB STA 2069+00 TO STA 2073+00

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

NOT FOR CONSTRUCTION
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, STRUCTURAL, AND DRAINAGE SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE-SPECIFIC DRAWINGS FOR DETAIL INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

NORTHBOUND TRACK PROFILE

WESTPORT ROAD
NB STA 2073+00 TO STA 2077+00

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

DRAWN BY: NKS
APPROVED BY: RPB
DRAWN BY: NKS
APPROVED BY: RPB

SCALE FOR 22"x34": H: 1"=20'   V: 1"=2'

NOT FOR CONSTRUCTION
### GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, electrical, mechanical, structural, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

### KANSAS CITY STREETCAR MAIN STREET EXTENSION

**SOUTHBOUND TRACK**

**PLAN AND PROFILE**

**39TH STREET**

**SB STA 1077+00 TO STA 1081+00**

**DATE:** 02-26-2019

**SCALE:**

- H: 1" = 20'  V: 1" = 2'

**CONSTRUCTION NOTES**
**GENERAL NOTES**

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
**GENERAL NOTES**

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

---

**ELEVATION**

1. **EXISTING GROUND**
   - **2082+00**
   - **2083+00**
   - **2084+00**
   - **2085+00**

2. **NORTHBOUND TRACK**
   - **2082+00**
   - **2083+00**
   - **2084+00**
   - **2085+00**

**KEY**

- **H**: 1" = 20'
- **V**: 1" = 2'

**PROFILE**

**NORTHBOUND TRACK**

**NB STA 2081+00 TO STA 2085+00**

---

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**PRELIMINARY PLANS - 15%**

**DATE**: 02-25-2019

**DRAWN BY**: HDR Engineering, Inc.

**APPROVED BY**: 000856

**CONTRACT NO.**: 816-360-2700

**CITY**: Kansas City, MO 64131-3471

**SUITE**: 600

**10450 Holmes Road**

---

**DRAFTER**: NKS

**CHECKED BY**: PEB

**NOT FOR CONSTRUCTION**

---

**FILE**: K122A.dgn

**DRAWING NO.**: 1

**SHEET NO.**: 1
CONSTRUCTION NOTES

GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK
PLAN AND PROFILE
38TH STREET
SB STA 1085+00 TO STA 1089+00

DRAWN BY
PRELIMINARY PLANS - 15%
DATE: 02-25-2019

NOT FOR CONSTRUCTION

K123 78
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
37TH STREET
NB STA 2089+00 TO STA 2093+00
GENERAL NOTES
1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

SOUTHBOUND TRACK
PLAN AND PROFILE
36TH STREET
SB STA 1093+00 TO STA 1097+00
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
36TH STREET
NB STA 2093+00 TO STA 2097+00
**GENERAL NOTES**

1. See discipline specific drawings for detailed information on civil, traffic, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

---

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**SOUTHBOUND TRACK**

**PLAN AND PROFILE**

36TH STREET

SB STA 1097+00 TO STA 1101+00

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**METHODOLOGY**

Construction drawings and plans.
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, structural, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
36TH STREET
NB STA 2097+00 TO STA 2101+00
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK
PLAN AND PROFILE
SB STA 1101+00 TO STA 1105+00
1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

GENERAL NOTES

KANSAS CITY STREETCAR MAIN STREET EXTENSION
NORTHBOUND TRACK
PROFILE
34TH WAY
NB STA 2109+00 TO STA 2113+00

CERTIFICATE OF AUTHORITY: 000856
816-360-2700
KANSAS CITY, MO 64131-3471
Suite 600
10450 Holmes Road

Certification and Signature:

HDR Engineering, Inc.
PRELIMINARY PLANS - 15%
DATE: 02-28-2019

SCALE FOR 22"x34":

H: 1"=20' V: 1"=2'

NOT FOR CONSTRUCTION

K129A
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, STRUCTURAL, AND OTHER SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND Dimensions GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

SB STA 1113+00 TO STA 1117+00

PLATE AND PROFILE

KANSAS CITY STREETCAR MAIN STREET EXTENSION

PRELIMINARY PLANS - 15%

SB STA 1113+00 TO STA 1117+00

DATE: 02-25-2019

NOT FOR CONSTRUCTION
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
**GENERAL NOTES**

1. **See Discipline Specific Drawings for Detailed Information on Civil, Traffic, Systems, and Drainage Structures.**
2. **All Elevations and Dimensions Given Are in Feet Unless Otherwise Noted.**
3. **All Curves Are Based on Arc Definition.**
4. **Profiles Designed to Final Top of Rail Elevation.**

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**Profile**

**Northbound Track**

KANSAS CITY STREETCAR MAIN STREET EXTENSION

PRELIMINARY PLANS - 15%  DATE: 02-25-2019

NOT FOR CONSTRUCTION

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**KEY**

- **H:** 1" = 20'
- **V:** 1" = 2'

**DRAWN BY:** HDR Engineering, Inc.

**APPROVED BY:**

**DESIGNED BY:**

**CHECKED BY:**

**CONTRACT NO.:**

**FILE NAME:** K131A.dgn

**DRAWING NO.:**

**SHEET NO.:**

---

**PLOT DATE:** 2/25/2019

---

**DESCRIPTION**

- **SCALE FOR 22"x34":**

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**Certificate of Authority:** 000856

**816-360-2700**

**Kansas City, MO 64131-3471**

**Suite 600**

**10450 Holmes Road**

---

**NB STA 2117+00 TO STA 2121+00**

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**EXISTING**

---
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, ENGINEERING, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
1. See discipline-specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR
   DETAILED INFORMATION ON CIVIL, TRAFFIC,
   SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE
   IN FEET UNLESS OTHERWISE
   NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL
   ELEVATION.
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, structures, and drainage systems.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

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3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND TRACK
WARWICK TRAFFICWAY
PLAN AND PROFILE
SB STA 1141+00 TO STA 1145+00

审核人：

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

PRELIMINARY PLANS - 15%
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
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### GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

---

**CONSTRUCTION NOTES**

**TRACK SECTION**

**DATE:** 2/25/2019

**FILENAME:** K138A.dgn

**DRAWN BY:** HDR Engineering, Inc.

**APPROVED BY:**

**DESIGNED BY:**

**CHECKED BY:**

**SCALE FOR 22"x34":**

**CONTRACT NO.:**

**VOLUME:** 1

---

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**PROFILE**

**WARWICK TRAFFICWAY**

**NB STA 2145+00 TO STA 2149+00**

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**K138A 109**
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

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2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
1. See discipline specific drawings for detailed information on civil, traffic, electrical, mechanical, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAIL INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.
2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL CURVES ARE BASED ON ARC DEFINITION.
4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
### General Notes

1. See discipline specific drawings for detailed information on civil, traffic, electrical, mechanical, and drainage systems, and drainage structures.
2. All elevations and dimensions given are in feet unless otherwise noted.
3. All curves are based on arc definition.
4. Profiles designed to final top of rail elevation.

### Construction Notes

- **Northbound Track**: Match line STA 1165+00 to STA 1169+00
- **Southbound Track**: Match line STA 1165+00 to STA 1169+00

### Plan and Profile

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</table>

### Scale

- 1" = 20'
- 2" = 40'
- 3" = 60'
- 4" = 80'

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**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**SB STA 1165+00 TO STA 1169+00**

**Preliminary Plans - 15%**

**Date**: 02-20-2019

**Planning**

**Design**

**Construction**
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

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4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

SOUTHBOUND TRACK

SB STA 1169+00 TO STA 1173+00

KANSAS CITY STREETCAR MAIN STREET EXTENSION

FEBRUARY PLANS - 15%

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CONTRACT NO.:

Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

PRELIMINARY PLANS - 15%
1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
GENERAL NOTES

1. See discipline specific drawings for detailed information on civil, traffic, structural, and drainage structures.

2. All elevations and dimensions given are in feet unless otherwise noted.

3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.
CONSTRUCTION NOTES

GENERAL NOTES

1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAIL INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

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4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

NORTHBOUND TRACK PROFILE

PERSHING ROAD

NB STA 2177+00 TO STA 2181+00
1. SEE DISCIPLINE SPECIFIC DRAWINGS FOR DETAILED INFORMATION ON CIVIL, TRAFFIC, SYSTEMS, AND DRAINAGE STRUCTURES.

2. ALL ELEVATIONS AND DIMENSIONS GIVEN ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CURVES ARE BASED ON ARC DEFINITION.

4. PROFILES DESIGNED TO FINAL TOP OF RAIL ELEVATION.
1. See discipline specific drawings for detailed information on civil, traffic, systems, and drainage structures.

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3. All curves are based on arc definition.

4. Profiles designed to final top of rail elevation.

**STOP LOCATION**

NB STA 2181+00 TO STA 2185+00

KANSAS CITY STREETCAR MAIN STREET EXTENSION

NORTHBOUND PROFILE

PRELIMINARY PLANS - 15%

DATE: 02-25-2019

K147A 127
1. See (Civil Drawings) for Sawcut and Paving Limits.

2. Track Edge Cross-Slope (TEX) are shown on (Civil Drawings) and shall be field adjusted to minimum required grade. Coordinate all in Engineer for Approval. Support Tie: Steel C-Channel spaced @ 100 FT (0.375 FT CURVED TRACK (RADII LESS THAN 400 FT)).

3. Contractor to submit Track Appurtances (Sawcut, Boot, Fasteners, etc.) for Review and Approval by Engineer prior to Installation.

4. All track shall have zero cant unless otherwise specified.

5. Refer to project geotechnical report for engineering recommendations regarding unsuitable material. Submit over excavation backfill material for review and approval by Engineer.

6. Restraining rail required for all horizontal curves with a radius less than 400 FT. Restrainting rail in boot with rubber flange way (Typ).

7. See System Wide Electrical Plans for the required system elements including duct banks, insulated joints, cross bonding, negative return, and other system appurtenances that interface with track/civil work.

8. $E$ is the cross slope between the rails. 0% (Typ). (See Note 2).

9. Tie needs to have adequate keep (Here. Contractor to take extra care in tying below the tie to ensure there is full concrete consolidation all around the tie)

10. Subgrade required to meet compaction requirements outlined in the geotechnical report.

11. Where adjacent to concrete pavement, contractor may pour roadway pavement monolithically with track slab.

NOTES:

- 1. See (Civil Drawings) for Sawcut and Paving Limits.
- 2. Track Edge Cross-Slope (TEX) are shown on (Civil Drawings) and shall be field adjusted to minimum required grade. Coordinate all in Engineer for Approval. Support Tie: Steel C-Channel spaced @ 100 FT (0.375 FT CURVED TRACK (RADII LESS THAN 400 FT)).
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- 4. All track shall have zero cant unless otherwise specified.
- 5. Refer to project geotechnical report for engineering recommendations regarding unsuitable material. Submit over excavation backfill material for review and approval by Engineer.
- 6. Restraining rail required for all horizontal curves with a radius less than 400 FT. Restrainting rail in boot with rubber flange way (Typ).
- 7. See System Wide Electrical Plans for the required system elements including duct banks, insulated joints, cross bonding, negative return, and other system appurtenances that interface with track/civil work.
- 8. $E$ is the cross slope between the rails. 0% (Typ). (See Note 2).
- 9. Tie needs to have adequate keep (Here. Contractor to take extra care in tying below the tie to ensure there is full concrete consolidation all around the tie)
- 10. Subgrade required to meet compaction requirements outlined in the geotechnical report.
- 11. Where adjacent to concrete pavement, contractor may pour roadway pavement monolithically with track slab.
NOTES:

1. DIMENSIONS AND MINIMUM CLEARANCES NOTED IN DETAIL ARE APPROXIMATE AND SHOULD BE UPDATED IN FINAL APPROVED SHOP DRAWINGS PRIOR TO INSTALLATION.

2. TRACK GAUGE IS MEASURED AT 1/2" BELOW TOP OF RAIL AND FROM THE GAUGE FACE TO GAUGE FACE.

3. SHALLOW GAUGE TIE SHOULD BE RIGID ENOUGH TO MAINTAIN LINE, GRADE, AND GAUGE OF THE RAIL. GAUGE TIE SHALL BE NO GREATER THAN 3/8" THICK AND 3" WIDE.

4. CONTRACTOR TO SUBMIT INSTALLATION PLAN FOR HOLDING GAUGE IN ELASTOMERIC GROUT TROUGH TO ENGINEER FOR REVIEW AND APPROVAL.

5. TRACK SLAB LIMITS ON STRUCTURE SHOWN FOR PAY LIMITS. CONTRACTOR MAY POUR BRIDGE PAVEMENT MONOLITHICALLY WITH TRACK SLAB.

6. PRE-GROUTED RAIL SHALL BE INSTALLED PER MANUFACTURES REQUIREMENTS. MINIMUM DEPTH OF GROUT TO BE VERIFIED BY MANUFACTURER PRIOR TO INSTALLATION AND APPROVED BY ENGINEER.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

TRACK SLAB ON STRUCTURE
NOTES:

1. Contractor to submit shop drawings for review and approval by engineer prior to manufacturing transition rail.

2. A minimum of 7" concrete depth below elastomeric grout required.

3. Contractor to follow elastomeric grout manufacturer's recommendation for installation.

SECTION B

SECTION C

SECTION D

NOT TO SCALE

TRANSITION RAIL

1. 4'-6" BEFORE WELDING
2. 6'-0" AFTER WELDING
3. 115 RE RAIL WITH RUBBER BOOT AND FLANGEWAY FORMER
4. ELASTOMERIC GROUT"
NOT TO SCALE

25 M STRAIGHT FROG TURNOUT

NOT TO SCALE

25 M TURNOUT - STRAIGHT FROG

NOTES:

1. THE SWITCH WILL BE POWERED OR MANUAL (SEE SYSTEMS PLANS) WITH
ACCOMMODATION FOR POINT DETECTION. THE SWITCH MUST BE TRAVELABLE WITH A
SPRING AND RETURN MECHANISM FOR OTHER APPROVED MECHANISMS. SWITCH
MECHANISM AND EARTH BOX SHALL BE INSULATED FOR SIGNALING CIRCUITS.

2. ALL JOINTS AND CONNECTIONS TO BE FIELD WELDED UNLESS NOTED OTHERWISE.

3. ALL DIMENSIONS ARE IN FEET AND INCHES.

4. TURNOUT TO BE FULLY INSULATED FOR ELECTRICAL ISOLATION PROVIDED
THROUGH ENCAPSULATION PER MANUFACTURER AND MATERIAL SUPPLIED
SPECIFICATIONS AND APPROVED BY ENGINEER. INSULATION SHALL SATISFY
RESISTIVITY REQUIREMENTS PER SPECIFICATIONS.

5. SWITCH MACHINE SHALL BE CENTERED BETWEEN TONGUE SWITCHES AFTER
GEOMETRY DIMENSIONS AND TOLERANCES HAVE BEEN SATISFIED.

6. ALL GAUGE RODS SHALL BE DRILLED AND SECURED TO TURNOUT AFTER GEOMETRY
DIMENSIONS AND TOLERANCES HAVE BEEN SATISFIED.

7. SWITCH BOX DRAIN TO BE CONNECTED TO OVERALL DRAINAGE NETWORK. PROVIDE
POWERED CONNECTIONS FOR SWITCH HEATERS AND POWER SWITCHES.

8. EARTHBOX MACHINE AND SWITCH HEATER BOXES SHALL BE DESIGNED FOR HS20
LOADING.

9. LEFT-HAND TURNOUT SHOWN, RIGHT-HAND IS MIRROR IMAGE.

10. FROG SHALL BE FLANGE BEARING WELDED BOLTLESS MANGANESE.

11. SEE TRAIN CONTROL DRAWINGS FOR INSULATED JOINT LOCATION AND LAYOUT.
NOT TO SCALE

TYPICAL SECTIONS

KANSAS CITY STREETCAR MAIN STREET EXTENSION

1050+00 TO 1069+00
1075+00 TO 1090+00
1095+00 TO 1158+00

MAIN STREET

1158+00 TO 1178+50

1:30:19 PM

FILENAME: C004.dgn

DATE: 02-25-2019

DRAWN BY: HDR Engineering, Inc.

PRELIMINARY PLANS - 15%

CONTRACT NO.: 000856

Certificate of Authority: 000856

816-360-2700

Kansas City, MO 64131-3471

Suite 600

10450 Holmes Road

TYPICAL SECTIONS

FILE SHEET 4 OF 5

136

C004
1180+00 TO 1181+50
MAIN ST

EXISTING CURB
EXISTING SIDEWALK
EXISTING OCS POLE FOUNDATION
EXISTING OCS POLE

EXISTING TRACK SLAB
OCS POLE (SEE OCS DRAWINGS)

REINFORCED CONCRETE TRACK SLAB, TYP.

REMOVE & REPLACE EXISTING ASPHALT PAVEMENT (MATCH EXISTING, 10" MIN. -
COMPACTED AND PREPARED SUBGRADE - AGGREGATE BASE

9" MIN. SAWCUT

EXISTING CURB
EXISTING SIDEWALK

OCS POLE FOUNDATION

OCS POLE (SEE OCS DRAWINGS)

9" MIN. SAWCUT

9" MIN. SAWCUT

KANSAS CITY STREETCAR MAIN STREET EXTENSION

TYPICAL SECTIONS
SHEET 5 OF 5

HDR Engineering, Inc.
Certificate of Authority: 000856
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
816-360-2700

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

FILE: C005.dgn
DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

CONTRACT NO.:
VOLUME:

SCALE FOR 22"X34":

DRAWING NO.:
FILENAME:
DATE:

PLOT DATE:

NOT FOR CONSTRUCTION

NOT TO SCALE

1:30:26 PM
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SOUTHBOUND AND NORTHBOUND TRACK
CIVIL PLAN
STA 1117+00 TO STA 1121+00
STA 1121+00 TO STA 1125+00

EXISTING R/W
EDGE OF TRACK SLAB
EDGE OF TRACK SLAB
EDGE OF TRACK SLAB
EDGE OF TRACK SLAB

LEGEND
TRACK SLAB
HMAC FULL DEPTH
CONCRETE SIDEWALK
CONCRETE INFILL
ASPHALT TILL
BRIDGE WALL AND CONCRETE OVERLAY

SCALE
60
40
20
0

MATCHLINE STA. 1117+00
MATCHLINE STA. 1125+00
MATCHLINE ABOVE
MATCHLINE BELOW

H: 1"=20'
MATCHLINE STA. 1181+00

EXISTING R/W

STA 2181+72
END CURB & SIDEWALK IMPROVEMENTS

MATCH EXISTING

EDGE OF TRACK SLAB

CONSTRUCT STREETCAR Track Slab

MATCH EXISTING

EDGE OF TRACK SLAB

CONSTRUCT STREETCAR Track Slab

MATCH EXISTING

EDGE OF TRACK SLAB

CONSTRUCT STREETCAR Track Slab

EXISTING R/W

CONSTRUCTION NOTES

LEGEND

TRACK SLAB

HMAC FULL DEPTH

CONCRETE SIDEWALK

CONCRETE INFILL

ASPHALT FILL

BRIDGE HILL AND CONCRETE OVERLAY

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SOUTHBOUND AND NORTHBOUND TRACK

CIVIL PLAN

STA 1181+00 TO STA 1185+00

PRELIMINARY PLANS - 15%

DATE: 02-25-2019

NOT FOR CONSTRUCTION

HDR Engineering, Inc.

Certificate of Authority: 000856

816-360-2700

Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
NO STRIPING THIS SHEET

GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING
   WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED
MODIFICATIONS TO THE EXISTING EQUIPMENT.

MODIFY EXISTING SIGNAL
PHASING TO INCLUDE A TRANSIT
MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
51ST STREET
SB STA BEGIN TO STA 1001+00

FILENAME: S101.dgn
DRAWN BY: HDR Engineering, Inc.
APPROVED BY: PRESIDENT
DESIGNED BY: CHIEF ENGINEER
CHECKED BY: ENGINEER-IN-CHARGE

DRAWER: DATE: 02-28-2019
SCALE: 1"=20'

NOT FOR CONSTRUCTION
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

WILL BE ADDED FOR THE 30% SUBMITAL.

NOT FOR CONSTRUCTION
1. Stripping design is conceptual.
2. Signing design is not provided; signing will be added for the 30% submittal.

**LEGEND**
- Proposed signalized intersection
- Existing signalized intersection; no proposed changes in phasing, YSP, and/or modifications to the existing equipment may still be required
- Modify existing signal phasing to include a transit movement with other phasing

**GENERAL NOTES**

- Sign & striping plan
- No striping this sheet

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**SB STA 1005+00 TO STA 1009+00**
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.

2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED MODIFICATIONS TO THE EXISTING EQUIPMENT. MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
49TH STREET
SB STA 1009+00 TO STA 1013+00

H: 1"=20'

SCALE
1. Stripping design is conceptual.
2. Signing design is not provided; signing will be added for the 30% submittal.

**GENERAL NOTES**

**LEGEND**

- **EXISTING SIGNALIZED INTERSECTION**: No proposed changes in passing, stop, and/or modifications to the existing equipment may still be required.
- **MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING**

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**SIGNING AND STRIPING PLAN**

**VOLKER BOULEVARD**

**SB STA 1013+00 TO STA 1017+00**

**DATE**: 02.25.2019

**SCALE**: 1" = 20'

**DRAWN BY**: NKS

**APPROVED BY**: RPB

**DESIGNED BY**: MMQ

**CHECKED BY**: RPB

**CONTRACT NO.**: 000856

**Certificate of Authority**: 816-360-2700

**Kansas City, MO 64131-3471 Suite 600 10450 Holmes Road**

**HDR Engineering, Inc.**

**PRELIMINARY PLANS - 15%**

**DRAWING NO.**: S105

**FILENAME**: 105.dgn

**DATE**: 2/25/2019

**PLOT DATE**: 4:45:58 PM

**FILE NO.**: 168
**GENERAL NOTES**

1. STRIPING DESIGN IS CONCEPTUAL.

2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

**LEGEND**

- PROPOSED SIGNALIZED INTERSECTION
- EXISTING SIGNALIZED INTERSECTION, NO PROPOSED CHANGES IN PHASING. TOP AND/or MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED
- MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**SIGNING AND STRIPING PLAN**

SB STA 1017+00 TO STA 1021+00

**SCALE**

- 1" = 10'
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING, TSP, AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
WARD PARKWAY
SB STA 1021+00 TO STA 1025+00

PRELIMINARY PLANS - 15%

DATE, 02-28-2019

S107

NOT FOR CONSTRUCTION
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED
INTERSECTION. NO PROPOSED
CHANGES IN PHASING. TSP
AND/OR MODIFICATIONS TO THE
EXISTING EQUIPMENT MAY STILL
BE REQUIRED

MODIFY EXISTING SIGNAL
PHASING TO INCLUDE A TRANSIT
MOVEMENT WITH OTHER PHASING

GENERAL NOTES

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
EMANUEL CLEAVER II BOULEVARD
SB STA 1025+00 TO STA 1029+00

SCALE

H: 1"=20'

SB STA 1025+00 TO STA 1029+00

EMANUEL CLEAVER II BOULEVARD

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED
INTERSECTION. NO PROPOSED
CHANGES IN PHASING. TSP
AND/OR MODIFICATIONS TO THE
EXISTING EQUIPMENT MAY STILL
BE REQUIRED

MODIFY EXISTING SIGNAL
PHASING TO INCLUDE A TRANSIT
MOVEMENT WITH OTHER PHASING

GENERAL NOTES

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
EMANUEL CLEAVER II BOULEVARD
SB STA 1025+00 TO STA 1029+00

SCALE

H: 1"=20'
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION: NO PROPOSED CHANGES IN PHASING. TOP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

1030+00
1029+00
1033+00

M 10' LANE
H 11' LANE
E 10' LANE
S 10' LANE
N 10' LANE

M 10' LANE
H 11' LANE
E 10' LANE
S 10' LANE
N 10' LANE

E 46TH STREET

H: 1"=20'

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
46TH STREET
SB STA 1029+00 TO STA 1033+00

H: 1"=20'
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION: NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
SB STA 1033+00 TO STA 1037+00

1035+00
2035+00
Variety
10' LANE
10' LANE
10' LANE
11.5' LANE

Northbound
Southbound

SB STA 1033+00 TO STA 1037+00

General Notes:

1. Stripping design is conceptual.
2. Signing design is not provided. Signing will be added for the 30% submission.

Legend:
- Proposed signalized intersection.

Existing signalized intersection: No proposed changes in phasing. TSP and/or modifications to the existing equipment may still be required.
- Modify existing signal phasing to include a transit movement with other phasing.

Kansas City Streetcar Main Street Extension
Signing and striping plan
SB STA 1033+00 to STA 1037+00
GENERAL NOTES

1. STRIPE DESIGN IS CONCEPTUAL.

2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

- PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PASSING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
45TH STREET
SB STA 1037+00 TO STA 1041+00
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
- PROPOSED SIGNALIZED INTERSECTION
- EXISTING SIGNALIZED INTERSECTION
- NO PROPOSED CHANGES IN PHASING, TOP
- AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED
- MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
SB STA 1041+00 TO STA 1045+00
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED, SIGNING WILL BE ADDED FOR THE 30% SUBMITAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION, NO PROPOSED CHANGES IN PHASING, TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
44TH STREET
SB STA 1045+00 TO STA 1049+00
1. Stripping design is conceptual.
2. Signing design is not provided; signing will be added for the 30% submittal.
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED, SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
43RD STREET
SB STA 1053+00 TO STA 1057+00

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED, SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.
**General Notes**

1. Stripping Design is conceptual.
2. Signing Design is not provided; signing will be added for the 30% Submittal.

**Legend**

- **Existing Signalized Intersection**: No proposed changes in phasing. TSP and/or modifications to the existing equipment may still be required.
- **Proposed Signalized Intersection**: Modify existing signal phasing to include a transit movement with other phasing.

**General Notes**

- **Existing Signalized Intersection**: No proposed changes in phasing. TSP and/or modifications to the existing equipment may still be required.
- **Proposed Signalized Intersection**: Modify existing signal phasing to include a transit movement with other phasing.

**Scale**

- 1" = 20'

**References**

- Vietnam Veterans Memorial Drive
- Signer and Striper Plan

**Title**

- Kansas City Streetcar Main Street Extension
- Signing and Striper Plan
- SB STA 1057+00 to STA 1061+00

**Drawing Information**

- PLOT DATE: 2/25/2019
- FILENAME: S116.dgn
- DRAWN BY: HDR Engineering, Inc.
- APPROVED BY: HDR Engineering, Inc.
- DESIGNED BY: HDR Engineering, Inc.
- CHECKED BY: HDR Engineering, Inc.
- CONTRACT NO.: Certificate of Authority: 000856
- DRAWING NO.: 02-25-2019
- SHEET NO.: 079
- VOLUME: 1
- SCALE FOR 22"x34": 60

**Notes**

1. Signing Design is not provided. Signing will be added for the 30% Submittal.
2. Stripping Design is conceptual.

**Phasing**

- **Southbound Track**: STA 1057+00 to STA 1061+00
- **Northbound Track**: STA 1061+00 to STA 1065+00

**Movement**

- Movement with other phasing

**Intersections**

- Existing Signalized Intersection
- Proposed Signalized Intersection

**Changes**

- Changes in phasing. TSP and/or modifications to the existing equipment may still be required.

**Signature**

- RideKC Streetcar
- HDR Engineering, Inc.

**Not For Construction**

- S116 179
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED
CHANGES IN PHASING - GPS
AND/OR MODIFICATIONS TO THE
EXISTING EQUIPMENT MAY STILL
BE REQUIRED

MODIFY EXISTING SIGNAL
PHASING TO INCLUDE A TRANSIT
MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
41ST STREET
SB STA 1061+00 TO STA 1065+00
KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
40TH WAY
SB STA 1065+00 TO STA 1069+00

GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING, TOP AND OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

SCALE
1" = 20'
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION — NO PROPOSED CHANGES IN PHASING, TSP
AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
40TH STREET
SB STA 1069+00 TO STA 1073+00

PRELIMINARY PLANS - 15% DATE: 02-25-2019

HDR Engineering, Inc.
Pursuant to the Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

Einrichtung:

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION — NO PROPOSED CHANGES IN PHASING, TSP
AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
40TH STREET
SB STA 1069+00 TO STA 1073+00

PRELIMINARY PLANS - 15% DATE: 02-25-2019

HDR Engineering, Inc.
Pursuant to the Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

Einrichtung:
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.

2. SIGNING DESIGN IS NOT PROVIDED; JANUARY WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION: NO PROPOSED MODIFICATIONS TO THE EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING. STRIPING AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

SIGNING AND STRIPING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
WESTPORT ROAD
SB STA 1073+00 TO STA 1077+00

SCALE

0 20 40 60

H: 1"=20'

S120.dgn

DRAWN BY

APPROVED BY

DESIGNED BY

CHECKED BY

DATE:

PRELIMINARY PLANS - 15%

DATE:

2/25/2019

FILEDATE:

DRAWING NO.:

SHEET NO.:

HDR Engineering, Inc.

Certificate of Authority: 000856

Kansas City, MO 64131-3471

Suite 600

10450 Holmes Road

816-360-2700

816-360-2700

PRELIMINARY PLANS - 15%
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING, TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

modify existing signal phasing to include a transit movement with other phasing

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
39TH STREET
SB STA 1077+00 TO STA 1081+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

SCALE

0 20 40 60

H: 1"=20'

SB STA 1077+00 TO STA 1081+00
39TH STREET

CONSTRUCT STREETCAR STOP

CONSTRUCT STREETCAR STOP

11' LANE
10' LANE
12' LANE
11' LANE

0 NORTHBOUND TRACK
4 SOUTHBOUND TRACK

500

0

400

200

100

0

400

200

100

0
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
SB STA 1081+00 TO STA 1085+00

SCALE
0 20 40 60

MATCH LINE STA. 1081+00
E SOUTHBOUND TRACK

MATCH LINE STA. 1085+00
E NORTHBOUND TRACK

11' LANE
10' LANE
10' LANE
11' LANE

1/8 IN.=20'
1. Stripping design is conceptual.
2. Signing design is not provided. Signing will be added for the 30% submittal.

**General Notes**

- **Existing Signalized Intersection:** No proposed changes in phasing. YSS and/or modifications to the existing equipment may still be required.
- **Modify Existing Signal Phasing to Include a Transit Movement with Other Phasing**

**Legend**

- Proposed signalized intersection
- Existing signalized intersection
- No proposed changes in phasing. YSS
- Modifications to the existing equipment may still be required
- Modify existing signal phasing to include a transit movement with other phasing

**Drawing Information**

- Filename: S123.dgn
- Drawing No.: S123
- Sheet No.: S123
- Plot Date: 2/25/2019
- Date: 2/25/2019
- Designed by: HDR Engineering, Inc.
- Drawn by: HDR Engineering, Inc.
- Approved by: HDR Engineering, Inc.
- E: 38th Street
- S: Southbound Track
- N: Northbound Track

**City Information**

- Kansas City, MO 64131-3471
- Suite 600
- 10450 Holmes Road
- 816-360-2700
- Certificate of Authority: 000856

**Project Information**

- KANSAS CITY STREETCAR MAIN STREET EXTENSION
- Signing and Striping Plan
- 39TH STREET
- SB STA 1085+00 TO STA 1089+00
- Preliminary Plans - 15%
- Scale: 1"=20'

**Special Notes**

- Phasing to include a transit movement with other phasing.
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
37TH STREET
SB STA 1089+00 TO STA 1093+00
**GENERAL NOTES**

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

**LEGEND**

- PROPOSED SIGNALIZED INTERSECTION
- EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING - TOP
- MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

SIGNING AND STRIPING PLAN
36TH STREET
SB STA 1093+00 TO STA 1097+00

**SCALE**

0 20 40 60

**DESCRIPTION**

- 10¼' LANE
- 11' LANE
- 10¼' LANE
- VARIES

**SOUTHBOUND TRACK**

**NORTHBOUND TRACK**

**DATE:** 2/25/2019

**FILENAME:** S125.dgn
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL
2. SIGNING DESIGN IS NOT PROVIDED - SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING, TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
36TH STREET
SB STA 1097+00 TO STA 1101+00

REV. DATE DESCRIPTION

PRELIMINARY PLANS - 15%
DATE: 02.26.2019

SALE
S126 189
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
- EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TOP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED
- MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

SIGNING AND STRIPING PLAN
SB STA 1101+00 TO STA 1105+00
**GENERAL NOTES**

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

**LEGEND**

- **PROPOSED SIGNALIZED INTERSECTION**
- **EXISTING SIGNALIZED INTERSECTION**

**INTERSECTION CHANGES**
- No Proposed

**EXISTING EQUIPMENT MAY STILL BE REQUIRED**

- **MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING**

**SCALE**

- 1" = 20'

**NOT FOR CONSTRUCTION**

**KANSAS CITY STREETCAR MAIN STREET EXTENSION**

**SIGNING AND STRIPING PLAN**

**ARMOUR BOULEVARD**

**SB STA 1105+00 TO STA 1109+00**
General Notes:
1. Stripping design is conceptual.
2. Signing design is not provided. Signing will be added for the 30% submittal.

Legend:
- Proposed signalized intersection
- Existing signalized intersection. No proposed changes in phasing. TSP and/or modifications to the existing equipment may still be required.
- Modify existing signal phasing to include a transit movement with other phasing.

Kansas City Streetcar Main Street Extension
Signinging and striping plan
34th Way
SB STA 1109+00 to STA 1113+00

Drawn By:
Designed By:
Pinkney Engineering, Inc.
Contract No.:
Certificate of Authority:
816-360-2700
Kansas City, MO 64131-3471 Suite 600 10450 Holmes Road

Scale:
60
40
20
10
0

S129.dgn
Scale for 22"x34":
PRELIMINARY PLANS - 15% DRAFT
2/25/2019
DRAWN DATE
DESCRIPTION
FILENAME:
DRAWING NO.
SHEET NO.
PRELIMINARY PLANS - 15%
DATE: 02-25-2019
PRELIMINARY PLANS - 15%
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PRELIMINARY PLANS - 15%
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.

2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION, NO PROPOSED CHANGES IN PHASING, TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
SB STA 1113+00 TO STA 1117+00
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
SB STA 1117+00 TO STA 1121+00

NOT FOR CONSTRUCTION
1. Stripping design is conceptual.
2. Signing design is not provided; signing will be added for the 30% submission.

GENERAL NOTES

LEGEND

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING, DSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
LINWOOD BOULEVARD
SB STA 1121+00 TO STA 1125+00

SCALE 1" = 20'

MOTION PICTURES, INC.
425-878-3333

S132
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED, SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION, NO PROPOSED CHANGES IN PHASING, TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
31ST TERRACE
SB STA 1125+00 TO STA 1129+00

FILE: S133.dgn
DRAWN BY: HDR Engineering, Inc.
PRELIMINARY PLANS - 15%
CONTRACT NO.:
DATE: 02-25-2019
NOT FOR CONSTRUCTION

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
31ST TERRACE
SB STA 1125+00 TO STA 1129+00

FILE: S133.dgn
DRAWN BY: HDR Engineering, Inc.
PRELIMINARY PLANS - 15%
CONTRACT NO.:
DATE: 02-25-2019
NOT FOR CONSTRUCTION
GENERAL NOTES

1. Stripping Design is Conceptual.
2. Signing Design is Not Provided; Signing Will Be Added for the 30% Submittal.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING, TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN

31ST STREET

SB STA 1129+00 TO STA 1133+00

PRELIMINARY PLANS - 15% DATE: 02-25-2019

S134 197
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

SIGNING AND STRIPING PLAN
SB STA 1133+00 TO STA 1137+00

KANSAS CITY STREETCAR MAIN STREET EXTENSION

LEGEND
PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

CONTRACT NO.: 02-25-2019
PRELIMINARY PLANS - 15%
DATE, 02-25-2019

FILE: S135.dgn
DRAWING NO.: 1
SHEET NO.: 198

HDR Engineering, Inc.
KANSAS CITY STREETCAR MAIN STREET EXTENSION
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

DRAWN BY: RPB
APPROVED BY: JWR
DESIGNED BY: NKS
CHECKED BY: RPB

SCALE FOR 22''X34'':
1" = 20'
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING. TOP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

GENERAL NOTES

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN

30TH STREET

SB STA 1137+00 TO STA 1141+00

DRAWN BY: RPB
APPROVED BY: RPB
DESIGNED BY: JWR
CHECKED BY: RPB

DATE: 2/25/2019

SCALE: 20 ft = 1"
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED, SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION, NO PROPOSED CHANGES IN PHASING, TOP
AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
WARWICK TRAFFICWAY
SB STA 1141+00 TO STA 1145+00

SCALE

60
40
20
0

M A T C H L I N E  S T A . 1 1 4 5 + 0 0
M A T C H L I N E  S T A . 1 1 4 1 + 0 0

S137 200

DATE: 02-28-2019
PRELIMINARY PLANS - 15%

CERTIFICATE OF AUTHORITY: 000856
816-360-2700
KANSAS CITY, MO 64131-3471
Suite 600
10450 Holmes Road

H: 1"=20'

WILL BE ADDED FOR THE 30% SUBMITTAL.

1. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

2. SIGNING DESIGN IS NOT PROVIDED, SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

M A T C H L I N E  S T A . 1 1 4 5 + 0 0
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.

2. SIGNING DESIGN IS NOT PROVIDED. SIGNAGE WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED
INTERSECTION. NO PROPOSED
CHANGES IN PHASING. TSP
AND/OR MODIFICATIONS TO THE
EXISTING EQUIPMENT MAY STILL
BE REQUIRED

MODIFY EXISTING SIGNAL
PHASING TO INCLUDE A TRANSIT
MOVEMENT WITH OTHER PHASING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
WARWICK TRAFFICWAY
SB STA 1145+00 TO STA 1149+00

DRAWN BY
PRELIMINARY PLANS - 15%
DATE, 02-25-2019
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING. TCP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

FILENAME: S139.dgn
DRAWING NO.: 202
SHEET NO.: 22"x34"
SCALE FOR 22"x34":

CONTRACT NO.: MMQ
PRELIMINARY PLANS - 15% 02-25-2019

GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

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MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

FILENAME: S139.dgn
DRAWING NO.: 202
SHEET NO.: 22"x34"
SCALE FOR 22"x34":

CONTRACT NO.: MMQ
PRELIMINARY PLANS - 15% 02-25-2019

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LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

FILENAME: S139.dgn
DRAWING NO.: 202
SHEET NO.: 22"x34"
SCALE FOR 22"x34":

CONTRACT NO.: MMQ
PRELIMINARY PLANS - 15% 02-25-2019

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LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

FILENAME: S139.dgn
DRAWING NO.: 202
SHEET NO.: 22"x34"
SCALE FOR 22"x34":

CONTRACT NO.: MMQ
PRELIMINARY PLANS - 15% 02-25-2019

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LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

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CONTRACT NO.: MMQ
PRELIMINARY PLANS - 15% 02-25-2019

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LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY

HDR Engineering, Inc.
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road

FILENAME: S139.dgn
DRAWING NO.: 202
SHEET NO.: 22"x34"
SCALE FOR 22"x34":

CONTRACT NO.: MMQ
PRELIMINARY PLANS - 15% 02-25-2019

GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION. NO PROPOSED CHANGES IN PHASING. TCP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

SIGNING AND STRIPING PLAN
KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
GRAND BOULEVARD
SB STA 1149+00 TO STA 1153+00

PRELIMINARY PLANS - 15%
DATE: 02-25-2019

H: 1"=20'

SCALE

0 20 40 60

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PROPOSED SIGNALIZED INTERSECTION

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MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING, YSD AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
MEMORIAL DRIVE
SB STA 1153+00 TO STA 1157+00

SCALE: 1" = 20'
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADD FOR THE 30% SUBMITTAL.
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND
EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PHASING. TSP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED
MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING

SB STA 1169+00 TO STA 1173+00
SIGNING AND STRIPING PLAN
PRELIMINARY PLANS - 15% DATE: 02-25-2019

KANSAS CITY STREETCAR MAIN STREET EXTENSION

H: 1"=20'
SCALE
0 20 40 60

DATE: 2/25/2019
PLOT DATE:
FILENAME:
DRAWING NO.:
SHEET NO.:
REV
DRAWN BY
APPROVED BY
DESIGNED BY
CHECKED BY
CHECKED BY
Certificate of Authority: 000856
816-360-2700
Kansas City, MO 64131-3471
Suite 600
10450 Holmes Road
KANSAS CITY STREETCAR MAIN STREET EXTENSION
02-25-2019
2/25/2019
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MOBILITY LANE
10' LANE
10' LANE
10' LANE
11' LANE
8 SOUTHBOUND TRACK
8 NORTHBOUND TRACK

1170+
00
2170+
00
MATCHLINE STA. 1169+00
MATCHLINE STA. 1173+00

WILL BE ADDED FOR THE 30% SUBMITTAL.
1. SIGNING DESIGN IS NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

2. SIGNING DESIGN IS CONCEPTUAL.
1. Stripping design is conceptual.
2. Signing design is not provided; signing will be added for the 30% submittal.
GENERAL NOTES
1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN IS NOT PROVIDED. SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

EXISTING SIGNALIZED INTERSECTION — NO PROPOSED CHANGES IN PHASING. TOP AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED.

MODIFY EXISTING SIGNAL PHASING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PHASING.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
SIGNING AND STRIPING PLAN
PERSHING ROAD
SB STA 1177+00 TO STA 1181+00

DRAWN BY: MMQ
APPROVED BY: RPB
DESIGNED BY: JWR
CHECKED BY: NKS

H: 1"=20'

MOBILITY LANE
GENERAL NOTES

1. STRIPING DESIGN IS CONCEPTUAL.
2. SIGNING DESIGN NOT PROVIDED; SIGNING WILL BE ADDED FOR THE 30% SUBMITTAL.

LEGEND

PROPOSED SIGNALIZED INTERSECTION

EXISTING SIGNALIZED INTERSECTION - NO PROPOSED CHANGES IN PASSING, YIELD AND/OR MODIFICATIONS TO THE EXISTING EQUIPMENT MAY STILL BE REQUIRED

MODIFY EXISTING SIGNAL PASSING TO INCLUDE A TRANSIT MOVEMENT WITH OTHER PASSING

KANSAS CITY STREETCAR MAIN STREET EXTENSION

SIGNING AND STRIPING PLAN
SB STA 1181+00 TO STA 1185+00
TYPICAL SECTION - SOUTHBOUND BRIDGE
(LOOKING NORTH)

TYPICAL SECTION - NORTHBOUND BRIDGE
(LOOKING NORTH)

NOTE:
ALL STRUCTURE SHOWN IS EXISTING.
NEW CONSTRUCTION SHOWN IN HEAVY SOLID LINES.

* MILL AN ADDITIONAL 4" x 18" STRIP BELOW EACH RAIL.

KANSAS CITY STREETCAR MAIN STREET EXTENSION
MAIN ST. VIADUCT OVER KCTRR
TYPICAL SECTION UNIT 5
TYPICAL SECTION
(LOOKING NORTH)

Bridge Deck Detail
(NOT TO SCALE)

NOTES:
ALL STRUCTURE SHOWN IS EXISTING. NEW CONSTRUCTION SHOWN IS HEAVY SOLID LINES.

* MILL AN ADDITIONAL 1/2" X 18" STRIP BELOW EACH RAIL.