Appendix F
Conceptual Engineering Drawings
Appendix F Contents

Conceptual Engineering:

- Segments 1, 3, 5, 4, A, C, and C Variations
- Freight Rail Relocation Segment
- Co-location Alternative
Conceptual Engineering
Segments 1, 3, 5, 4, A, C, and C Variations
### Legend for Plan

<table>
<thead>
<tr>
<th>Proposed</th>
<th>Existing</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRT TANGENT</td>
<td>EXISTING / BY OTHERS</td>
</tr>
<tr>
<td>LRT CURVE</td>
<td>HIAWATHA LRT</td>
</tr>
<tr>
<td>LRT SPIRAL</td>
<td>FREIGHT RAIL</td>
</tr>
<tr>
<td>CURB</td>
<td>PROPERTY PARCELS</td>
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<tr>
<td>RETAINING WALL</td>
<td>PAVEMENT REMOVAL/</td>
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<tr>
<td>MEDIAN BARRIER</td>
<td>IMPACTED PROPERTY</td>
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<tr>
<td>FENCE</td>
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<tr>
<td>CUT LIMIT</td>
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<tr>
<td>FILL LIMIT</td>
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<tr>
<td>PAVEMENT</td>
<td>PAVEMENT REMOVAL/</td>
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<tr>
<td></td>
<td>IMPACTED PROPERTY</td>
</tr>
<tr>
<td>BRIDGE</td>
<td></td>
</tr>
<tr>
<td>STATION</td>
<td>EXISTING BRIDGE</td>
</tr>
<tr>
<td>TRAIL (1)</td>
<td>BRIDGE REMOVAL</td>
</tr>
<tr>
<td>SIDEWALK</td>
<td>TRAIL REMOVAL</td>
</tr>
<tr>
<td>PARK AND RIDGE</td>
<td>FREIGHT RAIL REMOVAL</td>
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### Notes:

(1) Grading for the trails shown will be included in the project cost, however the surfacing for the trails will not be included with the project costs. Trail surfacing must be performed at the expense of others.
BEGINING OF PLATFORM 200'-0" PLATFORM LENGTH END OF PLATFORM

SIDEWALK 130'-0" MAX. CANOPY

RAMP SW

RAMP SE

SIDEWALK

LRT OPEN CUT PLATFORM
PLAN SECTION

200'-0"

LRT OPEN CUT SECTION
TYPICAL SECTION

NOT TO SCALE

DRAWN BY

SOUTHWEST TIPZLWAY CONCEPTUAL DESIGN SHEET

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

HDR ENGINEERING, INC.

SOUTHWEST TRANSITWAY CONCEPTUAL DESIGN SHEET

PLANT & TYPICAL SECTION
LRT OPEN CUT STATION

CONSTRUCTION
LRT GUIDEWAY - 100' MIN. R/W AT-GRADE
TYPICAL SECTION

NOT TO SCALE
R/W Varies (60' Min.)

LRT GUIDEWAY - 60' Min. R/W At-Grade
Typical Section

NOT TO SCALE
LRT GUIDEWAY - RETAINED CUT & FILL
TYPICAL SECTION

NOT TO SCALE
LRT GUIDEWAY – OPEN CUT
TYPICAL SECTION

NOT TO SCALE
LRT GUIDEWAY – RETAINED FILL

TYPICAL SECTION

NOT TO SCALE
LRT GUIDEWAY – CANTILEVER STRUCTURE

TYPICAL SECTION

NOT TO SCALE
PRELIMINARY
DRAFT
NOT FOR
CONSTRUCTION

SOUTH WEST TRANSITWAY CONCEPTUAL DESIGN
LRT ALTERNATIVE SEGMENT 1
PLAN AND PROFILE
STA: 329+00 - 352+20

MATCH LINE STA 352+20 = STA 400+00
SEE SHEET 7

MATCH LINE STA 329+00
SEE SHEET 5

PROPOSED PROFILE
BAKER RD GRADE CROSSING
GRADE = 3.7%
GRADE = -0.5%
GRADE = 2.4%
GRADE = -2.2%

EXISTING GROUND
MATCH LINE STA 354+00 = 355+66

SEE SHEET 8

MATCH LINE STA 315+00

SEE SHEET 10

GOLDEN TRIANGLE PAR STATION

PARK AND RIDE

HIGHWAY

S-2000

WEST 70TH ST

GRADE CROSSING

15 MPH

IMPACTED ROAD

PROPOSED PROFILE

STATION

W 70TH ST

GRADE CROSSING

GRADE = 0.5%

EXISTING GROUND

PROPOSED PROFILE

SOUTHWEST TRANSITWAY CONCEPTUAL DESIGN

STATION 355+66 - 375+00

PLAN AND PROFILE

PRELIMINARY DRAFT

NOT FOR CONSTRUCTION

DESIGNED BY

CHECKED BY

CONTRACTOR

HDR ENGINEERING, INC.
EXISTING GROUND

SMETANA RD GRADE CROSSING

GRADE: 0.02

PROPOSED PROFILE

GRADE: -3.0%

TRAIL GRADE CROSSING

GRADE: 6.0%
MATCH LINE STA 1000+00

PROPOSED PROFILE
GRADE = -0.6%

EXISTING GROUND

HORIZONTAL

<table>
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<tr>
<th>STA</th>
<th>LOWER</th>
<th>UPPER</th>
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<tbody>
<tr>
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<tr>
<td>1005</td>
<td>810</td>
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<tr>
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<tr>
<td>1020</td>
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</tbody>
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SOUTHWEST TRANSITWAY CONCEPTUAL DESIGN

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION

HDR ENGINEERING, INC.
LRT ALTERNATIVE SEGMENT C-1
PLAN AND PROFILE

STATION 1063+00 - 1090+00

SOUTHWEST TRANSITWAY CONCEPTUAL DESIGN SHEET
PRELIMINARY DRAFT NOT FOR CONSTRUCTION

HDR ENGINEERING, INC.

SOUTHWEST TRANSTWAY