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DESIGN DESIGNATION

GROVE STREET

ECONOMICS:


GROVE STREET 26,857 26,895 0.997

VMT

1,594,953

1,595,113
0.999

VPH

697

703
0.988

CROW

463

463
1.000

TI

2.5

2.5
1.000

FUNCTIONAL CLASS

URBAN COLLECTOR

LENGTH OF PROJECT = 3,510 FEET OR 650 METERS
**GOODHUE STREET
TYPICAL SECTION
STA 101+52.5 TO STA 102+65.8**

**PAVEMENT NOTES**

**PROPOSED PAVEMENT MILLING & OVERLAY**
1. **BASE**
   - 4.5" STABILIZED/HMA PAVEMENT
   - PLACED IN 24" THICK LAYERS
   - 2" SURFACE HMA SURFACE COURSE
   - 2.5" STABILIZED/HMA REC COURSES
2. **RAINFALL**
   - 3.5" REINF. WITH DRAINAGE TRENCHES

**PROPOSED RECLAIMATION (4") DEPTH**

- **SURFACE**
  - 4.5" STABILIZED/HMA PAVEMENT
  - PLACED IN 24" THICK LAYERS
- **BASE**
  - 2.5" STABILIZED/HMA REC COURSE

**SUBBASE**
- 6" GRAVEL BORROW TYPE C

**SUBSTRATE**
- After the existing pavement has been removed, if present, the surface of the subgrade shall be fine graded and compacted.

**PROPOSED CEMENT CONCRETE SIDEWALK & WHITE LINE RYANS**

- **SURFACING**
  - 4" HEAVY DUTY CONCRETE
- **BASE**
  - 6" GRAVEL BORROW TYPE B

**PROPOSED CEMENT CONCRETE CURBWAY**

- **SURFACING**
  - 4" HEAVY DUTY CONCRETE
- **BASE**
  - 6" GRAVEL BORROW TYPE B

**PROPOSED FILL FOR ADJACENT IMPERVIOUS**

- **SURFACING**
  - 2" SURFACE HMA SURFACE COURSE
- **BASE**
  - 6" GRAVEL BORROW TYPE C

**PROPOSED FILL FOR ADJACENT IMPERVIOUS**

- **SURFACING**
  - 2" SURFACE HMA SURFACE COURSE

**BASE**
- 6" GRAVEL BORROW TYPE C

**NOTES**

1. **ADDITIONAL DRAINAGE MASSES ARE DOWNSTREAM DETAIL, SEE SHEETS 14 AND 15**
2. **ALL MOWS ARE FULL DEPTH CONSTRUCTION VESSELS ARE REQUIRED TO CONSTRUCT FULL DEPTH 6" AND 3"**
3. **TOLERANCES FOR CONSTRUCTION 4.5""
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<thead>
<tr>
<th>CENTERLINE NUMBER</th>
<th>SIDE OF SIGN</th>
<th>POST SIZE AND NUMBER REQUIRED</th>
<th>AREA IN SQUARE FEET</th>
<th>COLOR</th>
<th>POST HEIGHT</th>
<th>LETTER HEIGHT</th>
<th>SYMBOL HORIZONTAL SPACING</th>
<th>SYMBOL VERTICAL SPACING</th>
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<th>TEXT DIMENSIONS</th>
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<td>R4-1</td>
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</table>
CONSTRUCTION MASTER PLAN

1. The contractor shall maintain a safe access at all times.
2. The contractor shall coordinate with the railroad company for all work impacting the railroad.
3. Designating lanes of traffic cannot be maintained, the contractor shall provide alternating single-lane travel with temporary barriers, and various traffic control devices.
4. The contractor shall coordinate with the Salem Police Department to schedule police detail services.
5. Railroad flaggers required for work within 25 feet of the railroad tracks, the contractor shall coordinate with the railroad to schedule flagger services.
6. Lanes closures shall only occur between 7 AM to 9 PM unless otherwise required by the engineer.
7. The contractor shall be permitted to perform work only during the hours of daylight.
8. Workers shall be permitted to perform work only during the hours of daylight.
9. All signs that are not representative of actual work conditions shall be either covered or removed when applicable.
10. The city will provide 2 changeable message boards for this project. The contractor shall coordinate with the city for placement and use of the changeable message boards at no additional cost to the city.
11. Peaked access on one side of the road must be maintained at all times during construction.

LEGEND

WORK ZONE
CONSTRUCTION AREA
TEMPORARY BARRIER
DIRECTION OF TRAFFIC FLOW
JUMBO BOARD
POLICE OFFICER OR FLAGGER
TEMPORARY BLOCK ADJACENT TO ROADWAY
PORTABLE BREAKAWAY BARRIERS
PORTABLE EMERGENCY MARQUEE
REFLECTED SIGNS

SCALE: 1" = 100'
PHASE 3

1. Construct sidewalk and roadway on east side of Grove Street between Mason Street and Grove Street (south);
2. Full-depth pavement and sidewalk on south side of Seaview Street;
3. Roadway and sidewalk on west side of Goodhue Street.

LEGEND

WORK ZONE
CONSTRUCTION CRANE
TEMPORARY SANDER
DIRECTION OF TRAFFIC FLOW
ARROW BOARD
POLICE OFFICER OR FLAGGER
TEMPORARY IMPACT attenuator
TEMPORARY TRAFFIC SIGNAL
PORTABLE BARRIERS/ BARRIERS TYPE I
PORTABLE FENCE (CHAIN LINK)
PORTABLE CHANGABLE MESSAGE SIGN (PMS)

SHEET: 2 DRAWN: April 15, 2013
Scale: 1" = 40'-0"
**PLANT MAINTENANCE NOTES:**

1. Contractor shall provide complete maintenance of the newly installed seed areas and plantings.
2. No irrigation is provided for this site. Contractor shall supply and maintain irrigation systems for newly seeded areas and plantings during the one-year planting guarantee period. Cost is recoverable to the City.
3. Contractor shall provide and maintain sprinkler and irrigation planning reports to the City.
4. Contractor shall provide all materials, labor, and equipment for the complete landscape maintenance work. Cost is recoverable to the City.
5. Watering shall occur on a weekly basis during the growing season to ensure that all plants receive the necessary water. Rainfall shall not replace the required watering.
6. Water shall be applied in sufficient quantity to thoroughly saturate the soil in the root zone of each plant.
7. Contractor shall ensure that any plants at the end of the one-year guarantee period, Contractor shall turn over maintenance to the City staff at that time.
8. All plants shall be maintained within 24 hours of installation.
9. Contractor shall provide watering plans for new seed and all plantings along corridor, including source of water, method of application and frequency of watering.
10. As required by the City, the Contractor shall water seeded areas. Cost is recoverable to the City.

**KEY: COMMON NAME, PLANT DESCRIPTION, SEED OR TUBER SIZE, NOTES**

<table>
<thead>
<tr>
<th>KEY</th>
<th>COMMON NAME</th>
<th>PLANT DESCRIPTION</th>
<th>SIZE</th>
<th>NOTES</th>
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<tbody>
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<td>1</td>
<td>Eucalyptus globulus</td>
<td>Blue gum Eucalyptus</td>
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<tr>
<td>2</td>
<td>Salix philadelphia</td>
<td>Scarlet willow</td>
<td>1.5&quot;</td>
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<tr>
<td>3</td>
<td>Picea abies</td>
<td>Christmas tree</td>
<td>1.5&quot;</td>
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<tr>
<td>4</td>
<td>Quercus rubra</td>
<td>Northern red oak</td>
<td>2.5&quot;</td>
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**DECIDUOUS TREE PLANTING:**

- Trees shall be placed at least 10 feet from the edge of the road.
- Trees shall be planted at least 200 inches above the finished grade after backfilling.
- Trees shall be placed with the rootball intact and backfilled with topsoil.
- Trees shall be staked with guy wires to provide support.
- Trees shall be watered regularly.
SALEM
GROVE STREET IMPROVEMENTS

CONSTRUCTION DETAILS

UNIT OF WORK: PAVEMENT KEY DETAIL
NOT TO SCALE

NOTE:
1. ALL SECTIONS SHALL BE DESIGNED FOR 15-20 TON LOADING.
2. PROVIDE 2." DIAM. OPENING FOR PIPE WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP PLATE SHALL NOT BE DIRECTLY ON PIPE OR CLOTH ALL PIPE CONNECTIONS (NON-TAPING GROOVE).
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE APPLIED BETWEEN RUBBER.
4. CATCH BASIN FRAME AND GRATE OF DESIGN SHALL BE SET IN FULL DRY MORTAR.
5. ADJUST TO FINISH GRADE WITH MORTAR AS REQUIRED.

UNIT OF WORK: PAVEMENT KEY DETAIL
NOT TO SCALE

NEW FIRE HYDRANT CONNECTION
NOT TO SCALE

TABLE OF MATERIALS IN FEET

INCHAGE TAP SLICE SCHEDULE

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<th>1 1/2</th>
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<td>1/4</td>
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NOTE: REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
2. SUBJECT TO FIELD MODIFICATION OF ENGINEER.

TAP SLICE DETAIL
NOT TO SCALE

POINT VIEW A

PLAN SECTION
ESTIMATED SHRINKAGE = 15%