CONSTRUCTION SCHEDULE & SEQUENCE

- BIDS & CONSTRUCTION
- SYMBOL
- 70080001
- p:\70080001\Plt\C102.dgn

- Ryerson Creek
- 36" Maples
- W. Muskegon Avenue
- Sediment Stop
- North American Green S150
- North American Green S150 or Approved Equal

- This construction schedule is provided to indicate anticipated start dates for site-related activities:
  - Roadway Paving
  - Permanent Seeding
  - Topsoil Spreading
  - Site Grading & Earthwork
  - On-Site Utilities

- Topsoil Stripping & Stockpiling
- Install and Maintain Temporary Erosion Controls

- Construction Schedule & Sequence

- This Erosion Control Plan is designed to protect the environment from erosion and water quality degradation.

- Erosion Control Notes:
  - The erosion control measures indicated on this plan are based on "The Michigan Erosion Control Handbook." They shall be installed during construction.

- Permanent soil erosion control shall be installed according to the site-specific plans and specifications.

- Erosion Control Installations shall be repaired immediately, with these areas being restored to their original character.

- Partially remove temporary erosion controls as follows:
  - Sites.

- Use at stormwater inlets, especially at construction sites.

- Install per manufacturer's recommendation.


- Stabilization method utilized on sites where earth accumulation occurs.

- Where used, erosion control systems shall be installed.

- best management practices for placement of bituminous leveling courses.

- Pulls from the Point of Origin. SEDIMENTS shall not be flushed or washed from the area with water.

- Traffic shall be taken during removal to minimize the loss of accumulated sediment.

- Silt fence shall be inspected and repaired once a week and after every rain.

- Permanent water control measures are installed.

- Public roadways and shall be returned to the likely point of origin.

- SEDIMENTS shall be removed if deposits reach half the fence height.

- Silt fence shall be maintained during construction.

- Public roadways and shall be returned to the likely point of origin.

- Erosion control shall be provided to prevent sediment and debris from entering local water bodies.

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General Notes

1. All work shall comply with the sanitary landfill and any other approved plan.

2. Refer to DWG. C302 for soil erosion/retention.

3. All work shall comply with the sanitary landfill and any other approved plan.

Project Goals:

- Wetland Restoration
- Grading Plan

Restoration at Ryerson Creek

Regional Development Commission

Project LDR

11/14/12

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MUSKEGON LAKE A.O.C.

WETLAND RESTORATION & GRADING PLAN

MDEQ REVIEW

OWNER REVIEW

AS-BUILT

FILE NO

11/14/12

MUSKEGON, MICHIGAN

REGIONAL DEVELOPMENT

COMMISION
**Plant List**

<table>
<thead>
<tr>
<th>PLANT NAME</th>
<th>COMMON NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buttonbush</td>
<td>Cephalanthus occidentalis</td>
</tr>
<tr>
<td>Nannyberry</td>
<td>Viburnum lentago</td>
</tr>
<tr>
<td>Pussy Willow</td>
<td>Salix discolor</td>
</tr>
<tr>
<td>Swamp Rose</td>
<td>Swamp White Oak</td>
</tr>
<tr>
<td>Swamp White Oak</td>
<td>Quercus bicolor</td>
</tr>
<tr>
<td>Michigan Holly</td>
<td>Larix laricina</td>
</tr>
<tr>
<td>Red Stemmed Dogwood</td>
<td>Ilex verticillata</td>
</tr>
<tr>
<td>Red Maple</td>
<td>Cornus sericea</td>
</tr>
<tr>
<td>Acer Rubrum</td>
<td>Acer rubrum</td>
</tr>
</tbody>
</table>

**Equipment Allowed (Typical)**

1. Plastic sheeting should be used as protection during excavation. Equipment may be used to maintain Typical conditions as specified in the contract.
2. Excavation equipment should be used to maintain typical conditions and avoid damage to existing structures.
3. Equipment should be used to maintain Typical conditions and avoid damage to existing structures.
PROJECT GOALS:

1. RESTORE HABITAT ON 300 FEET OF RIPARIAN CORRIDOR BY REMOVING FILL MATERIAL, REMOVING INVASIVE SPECIES AND PLANTING NATIVE VEGETATION.

LEGEND

EXISTING WETLAND LIMITS

INVASIVE PLANT REMOVAL/CONTROL

CONTRACTOR TO REMOVE ALL INVASIVE/NUISANCE PLANTS SUCH AS HONEYSUCKLE, RUSSIAN OLIVE, REED CANARY GRASS, BUCKTHORN, GARLIC MUSTARD, BITTERSWEET VINE AND WILD GRAPE VINE FROM THE DESIGNATED AREA AND HAULED OFFSITE AND DESTROYED. WOODY PLANT MATERIAL TO BE CUT DOWN AT THE SOIL SURFACE LEAVING STUMP AND ROOT MASS INTACT. BRUSH ON HERBICIDE CONTAINING TRICLOPYR 3 TO CUT SURFACE OF STUMP TO ELIMINATE REGROWTH. WORK TO PERFORMED BY LICENSED APPLICATOR IN ACCORDANCE WITH REGULATORY STANDARDS AND MANUFACTURER'S DIRECTIONS. HERBACEOUS INVASIVE PLANTS TO BE TREATED BY WICKING HERBICIDE CONTAINING GLYPHOSATE ON LEAF SURFACES. WORK TO BE PERFORMED BY LICENSED APPLICATOR IN ACCORDANCE WITH REGULATORY GUIDELINES AND MANUFACTURER'S DIRECTIONS.

NOTE: PLANTS TO BE LOCATED IN THE FIELD (PATTERNED AREA) BY ARCHITECT. CONTRACTOR TO PROVIDE MARKED STAKES FOR LOCATION EFFORT. NOTIFY ARCHITECT ONE WEEK IN ADVANCE. CONTRACTOR TO INCLUDE MINOR BRUSH CLEARING FOR PLANTING IN BID.

CO

1 GAL.

CONT.

15

CEPHALANTHUS OCCIDENTALIS

BUTTONBUSH

B & B

CONT.

1 1/2" CAL.

ACER RUBRUM

RED MAPLE

CORNUS SERICEA

RED STEMMED DOGWOOD

ILEX VERTICILLATA

MICHIGAN HOLLY

LARIX LARICINA

TAMARACK

QUERCUS BICOLOR

SWAMP ROSE

SWAMP WHITE OAK

SALIX DISCOLOR

PUSSY WILLOW

VIBURNUM LENTAGO

NANNYBERRY

HABITAT RESTORATION AT RYERSON CREEK

WEST MICHIGAN SHORELINE REGIONAL DEVELOPMENT COMMISSION

MUSKEGON LAKE A.O.C. HABITAT

MUSKEGON, MICHIGAN

11/14/2012

AS-BUILT

FILE NO 70080001

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1. **Road Closure:** Follow requirements shown on THIS PLAN. No more than one road closure allowed at a time. Durations as listed:

   - **W. Muskegon Ave / Seaway Drive** - maximum duration 1 week. Do not block access to Murphy Street / Farmers Market.
   - **Yuba Street near Murphy Street** for installation of sanitary sewer - maximum duration 1 week. Do not block access to Farmers Market.
   - **Yuba Street at Ryerson Creek** - maximum duration 3 weeks.
   - **Sanitary Sewer** - maximum duration 1 week. Do not block access to Farmers Market.

2. The contractor shall notify the City of Muskegon, MDOT (MUSKEGON TSC), and WMSRDC a minimum of 5 working days prior to erection of detour signing and barricades.

3. It shall be the responsibility of the contractor to obtain all permits for erecting the detour signing and barricades.

4. Provide variable message boards for Yuba Street closure maintaining the detour during construction.

5. Provide advance notice of closures for advance notice (two boards each location). W. Muskegon Avenue closure for one week in advance.

**Message to Indicate Location and Date of Upcoming Closure.**

**Western Avenue Closures Detour Plan**

**Yuba Street Closure Detour Plan**