ENVIRONMENTAL PERMIT PLANS
STATE PROJECT 999-999
ROUNDABOUT AT AN INTERSECTION
ROUTE X AND ROUTE Y
TOWN OF ______

MASSACHUSETTS
DISTRICT 1
DISTRICT 2
DISTRICT 3

PROJECT LOCATION

GUIDE FOR THE DEVELOPMENT OF THE PERMIT PLAN SET

SAMPLE PROJECT USED FOR PLANS

The following sample is an improvement project. This specific project consists replacing a saturated intersection with a roundabout. The project includes shoreline erosion, stream channel endangerment, stream bed encroachment, and watercourse adjustment (SCS) investigation. Stream channel endangerment and stream bed encroachment (SCS) investigation is performed within the permit application.

Environmental impact areas include all areas to be impacted by the project's construction activities. The project's construction activities (must be written) include shoreline erosion, stream channel endangerment, stream bed encroachment, and watercourse adjustment (SCS) investigation. The designer should also evaluate utility work needed as part of the project and other projects due to project-related safety issues.

NOTE: This sample project has been added to the actual project to produce the sample set of plans.

LOCATION MAP
SCALE 1" = 1000'

PLAN DATE: DECEMBER 7, 2015

PROJECT TITLE:

DESCRIPTION OF THE WATERCOURSES, WETLANDS AND WETLAND SOILS SEE ALSO THE DEPARTMENT'S OFFICE OF ENVIRONMENTAL PLANNING'S PERMIT PLAN CHECKLIST FOUND ON THE WATER & NATURAL RESOURCES WEBPAGE UNDER "PERMITTING PROCESS".

NOTE: FOR ADDITIONAL ENVIRONMENTAL INFORMATION, SEE ALSO THE DEPARTMENT'S OFFICE OF ENVIRONMENTAL PLANNING'S PERMIT PLAN CHECKLIST FOUND ON THE WATER & NATURAL RESOURCES WEBPAGE UNDER "PERMITTING PROCESS".

GENERAL NOTES:
1. THESE PLANS ARE INTENDED ONLY FOR ENVIRONMENTAL PERMITTING PURPOSES. THESE PLANS HOLD AUTHORITY FOR ALL ACTIVITIES CONCERNING THE REGULATED AREA FOR DETAILS, PLACEMARKING INFORMATION AND PAYMENT REFER TO THE APPLICABLE CONTRACT DOCUMENTS.
2. THE DEPARTMENT OF TRANSPORTATION WILL ONLY SUMMIT REVISIONS TO DEEP AND USE FOR CHANGES TO THE DESIGN THAT WILL AFFECT REGULATED AREAS.
3. FOR A DESCRIPTION OF THE WATERCOURSES, WETLANDS AND WETLAND SOILS SEE THE DEPARTMENT'S OFFICE OF ENVIRONMENTAL PLANNING'S PERMIT PLAN CHECKLIST FOUND ON THE WATER & NATURAL RESOURCES WEBPAGE UNDER "PERMITTING PROCESS".
4. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM NAD 1983

NOTE:
1. LOCATION PLAN AT AN AppROPRIATE SCALE THAT SHOWS PROJECT LOCATION AND NEARBY CROSS STREETS (EX: 1"=1000')
2. STATE OF CONNECTICUT MAP WITH TOWN SHADED AND CALL-OUT PROJECT LOCATION
3. GENERAL INDEX FOR "LIST OF CHANGES" AS OBJECTIVE CHANGES TO THE DESIGN THAT WILL AFFECT REGULATED AREAS.
4. SIGNATURE BLOCK FOR CONSULTANT ENGINEER, IF NEEDED.
5. PLAN DATE (LATEST REVISION DATE OF SHEET. DATES DO NOT CALL-OUT PROJECT LOCATION
6. PLAN DATE (LATEST REVISION DATE OF SHEET. DATES DO NOT CALL-OUT PROJECT LOCATION
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20. PLAN DATE (LATEST REVISION DATE OF SHEET. DATES DO NOT CALL-OUT PROJECT LOCATION

NOTE: This sample project has been added to the actual project to produce the sample set of plans.
**WETLAND/WATERCOURSE IMPACT PLAN**

1. PLAN TO CLEARLY DISPLAY TEMPORARY AND PERMANENT IMPACTS TO WETLAND AREAS (AREA ABOVE OHW) AND WATERCOURSES (LOW TO MEDIUM CLIENTS DO NOT SHOW EXISTING OR PROPOSED CONNECTION). AVOID SHOWING PATTERNS FOR ITEMS WHICH INTERSECT WITH CLARITY-EVADING IMPACTS (X REPAIR). CONSTRUCTION CHANGES SHOULD BE MARKED CLEARLY.

2. INCLUDE LAND-USE LIMITS (VALUES CAN BE SOURCED UP).

3. INCLUDE WETLAND AND WATERCOURSE IMPACT TABLE (VALUES CAN BE SOURCED UP).

4. CALL-DOWN LIMITS OF IMPACT. LIMITS OF IMPACT SHOULD BE CLEARLY SHOWN AND MAY OR MAY NOT CONFORM WITH THE ECO.LIMIT IN PARTIAL LINE.

5. LIMITS OF IMPACT SHOULD BE DEFINED BASED ON ENOUGH SPACE FOR THE CONTRACTOR TO PERFORM THE WORK. THE Designer SHOULD CAREFULLY CONSIDER HOW THE PROJECT MAY BE CONSTRUCTED AND PROVIDE ENOUGH SPACE TO ALLOW THE CONTRACTOR THE ABILITY FOR MINOR VARIATION IN CONSTRUCTION METHODS. UTILITY IMPACTS AS PART OF THE PROJECT SHOULD BE SOLD OR ENCOURAGED.

6. APPROPRIATE LEGEND AND INCLUDE NOTE REGARDING O.D.T. SUMMITALS FOR REVISIONS.

7. PLAN AND SETUP DESIGN (DRAFT) DATES (DATES DO NOT NEED TO MATCH WRITTEN PLAN SET).

**ENVIRONMENTAL PERMIT PLANS**

**PLAN DATE: DECEMBER 7, 2015**

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**WETLAND SITE NO. 1**

**WETLAND SITE NO. 2**

**WETLAND SITE NO. 4**

**WETLAND SITE NO. 3**
GUIDE FOR THE DEVELOPMENT OF THE PERMIT PLAN SET

1. THIS SHEET IS NOT NECESSARY IF THERE ARE NO IMPACTS TO A FLOODPLAIN AND/OR FLOODWAY. THE FLOOD IMPACT PLAN CAN USE THE SAME BASE MAP FROM THE WETLAND IMPACT PLAN BUT WOULD NEED TO MATCH WITHIN PLAN SET.

2. PLAN TO CLEARLY DEPICT TEMPORARY AND PERMANENT IMPACTS TO FLOODPLAIN AND/OR FLOODWAY. THE FLOOD IMPACT PLAN CAN USE THE CONDITIONS OF ACTUAL QUANTITIES IN NO WAY WARRANTED TO INDICATE QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INFORMATION, INCLUDING ESTIMATED QUANTITIES.

3. APPROPRIATE LEGEND AND INCLUDE NOTE REGARDING D.O.T. SUBMITTALS FOR CHANGES TO THE DESIGN THAT WILL EFFECT THE NOTED REGULATED AREAS.

4. INCLUDE FLOOD LIMITS. LIMITS OF IMPACT SHOULD BE CLEARLY SHOWN AND MAY OR MAY NOT COINCIDE WITH THE R.O.W. LINE OR EASEMENT LINE.

5. WETLAND LIMITS IN BOLD (NOT SCREENED).

6. CALL-OUT LIMITS OF IMPACT. THE LIMITS OF IMPACT SHOULD BE CLEARLY SHOWN AND MAY OR MAY NOT COINCIDE WITH THE R.O.W. LINE OR EASEMENT LINE.

7. LIMITS OF IMPACT SHOULD BE DEFINED BASED ON ENOUGH SPACE FOR THE CONTRACTOR TO PASS. THE WORK THE DESIGNER SHOULD CAREFULLY CONSIDER HOW THE PROJECT MAY BE CONSTRUCTED AND PROVIDE ENOUGH AREA TO ALLOW THE CONTRACTOR THE ABILITY FOR VARIATION IN CONSTRUCTION METHODS, UTILITY IMPACTS AS PART OF THE PROJECT SHOULD ALSO BE EVALUATED.

8. CALL-OUT LIMITS OF IMPACT AND INCLUDE NOTE REGARDING D.O.T. SUBMITTALS FOR REVISIONS.

9. APPROPRIATE LEGEND AND INCLUDE NOTE REGARDING D.O.T. SUBMITTALS FOR REVISIONS. PLAN DATE (LATEST REVISION DATE OF SHEET. DATES DO NOT NEED TO MATCH WITHIN PLAN SET).

10. PLAN DATE: DECEMBER 7, 2015

ENVIRONMENTAL PERMIT PLANS

PLAN DATE: DECEMBER 7, 2015
"PERMIT PLANTING PLAN" IN A PERMIT SET IS SHOWING PROPOSED LANDSCAPE ITEMS IN A REGULATED AREA/DISTURBED WETLANDS. ADDITIONAL AREAS ABOVE THE WETLAND LIMIT SHALL BE COVERED WITH A WOOD CHIP MULCH OR A CONSERVATION SEED MIX. ALL DISTURBED AREAS SHALL BE RESTORED.

1. Plantings on this sheet shall be for environmental mitigation specific to mitigating any changes to plantings on this sheet shall be coordinated with the office of environmental planning.
2. Wood chip mulch shall not be placed in the wetland area.
3. Disturbed areas below the wetland limit shall be seeded with a wetland grass mix. Disturbed areas above the wetland limit shall be covered with a wood chip mulch or a conservation seed mix. All disturbed areas shall be restored.
4. The "PERMIT PLANTING PLAN" in a permit set shows the proposed landscape items within the regulated area/disturbed wetlands. Additional items not in the regulated area/disturbed wetlands may be shown at the discretion of the landscape designer.

The "mitigation planting plan" is created only when required by a regulating agency. If required, a coordination meeting shall be scheduled with the landscape design plan dept. and/or other units involved in the project.
PERMIT PLANT LIST

<table>
<thead>
<tr>
<th>KEY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>WETLAND INDICATOR</th>
<th>STATUS</th>
<th>plant clump size</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Alnus rubra</td>
<td>Red maple</td>
<td>1½&quot; x 7'</td>
<td>FAC</td>
<td>2</td>
<td>2</td>
<td>36</td>
</tr>
<tr>
<td>Ar</td>
<td>Alnus rubra</td>
<td>Red maple</td>
<td>1½&quot; x 7'</td>
<td>FAC</td>
<td>2</td>
<td>2</td>
<td>36</td>
</tr>
<tr>
<td>Ed</td>
<td>Solidago canadensis</td>
<td>American blazing</td>
<td>2½&quot; x 7'</td>
<td>FAC</td>
<td>2</td>
<td>2</td>
<td>36</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Plantings on this sheet are for environmental mitigation specific to permitting. Any changes to plantings on this sheet shall be coordinated with the Office of Environmental Planning.
2. Wood chip mulch shall not be placed in the wetland area.
3. Disturbed areas below the wetland limit shall be seeded with a wetland seed mix. Disturbed areas above the wetland limit shall be covered with a wood chip mulch or a combination seed mix. All disturbed areas shall be restored.

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ENVIRONMENTAL PERMIT PLANS

PLAN DATE: DECEMBER 7, 2015

PREPARED BY:

REVIEWED BY:

APPROVED BY:

SEE GUIDANCE ON PREVIOUS SHEET (PMT-06)