

ENVIRONMENTAL PERMIT PLANS STATE PROJECT NO. XXXX-XXXX REPLACEMENT OF BRIDGE NO. XXXXX IN THE TOWN OF _____



LOCATION PLAN 1" = 500'

	LIST OF DRAWINGS	
	DRAWING NO.	DRAWING TITLE
	PMT-01	TITLE SHEET
	PMT-02	GENERAL SITE PLAN
	PMT-03	WETLAND/WATERCOURSE IMPACT PLAN
TO DESIGNERS.	PMT-04	100-YEAR FLOOD IMPACT PLAN
NARY PERMIT PLAN DEVELOPMENT	PMT-05	ELEVATIONS & SECTION PLAN
BE INITIATED AFTER 30% DESIGN	PMT-06	STAGING AND WATER HANDLING PLAN
HAS BEEN COMPLETED. PLEASE	PMT-07	PERMIT PLANTING PLAN
ANY PERTINENT/APPLICABLE		
SIGN REVIEW COMMENTS ARE		
ORATED INTO THE PERMIT PLANS.		

GNATURE,

BLOCK:





ROJECT TITLE

Block for Consultant

stamp and signature

if applicable

Filename: ...\TITLE SHEET - Proj XXX.dgn

Guide for the Development of the Permit Plan Set

Title Sheet:

1. Location plan at an appropriate scale that shows project location and nearby cross streets (example: 1"=500', 1"=1000'). For longer lateral projects, depict beginning and end of project (project limits) 2. Include State of Connecticut map with Town shaded and call-out project location 3. Include general index for "LIST OF DRAWINGS" 4. Include GENERAL NOTES 1-5 (Additional notes may be added as appropriate for the project). Revise Note 4 as appropriate for project. Update Note 5 as needed for any revisions to specs and manuals. 5. Include a signature block for Consultant Engineer, if needed. 6. Include a PLAN DATE (Latest revision date of sheet. Dates do not need to match within plan set) On All Other Plan Views: Show wetland limits and ordinary high water (OHW) (bold)
 If within a regulated flood zone, show existing flood limit lines on plan views (bold). Identify using the guidance in the 'Regulatory Floodplain Delineation, Permit Plan Set' dated May 2016 which can be found on the OEP webpage under 'Permit Plan Sets' - 'Guide for Floodplain Lines on Plans' and is summarized here: A) Calculated elevation on a FEMA map governs. Label as "FEMA 100-YR FLOOD (CALCULATED)" B) Otherwise, show hydraulic analysis elevation. Label as "EXISTING 100-YR FLOOD (CALCULATED)" C) If no calculations were performed, show mapped FEMA lines. Label as "MAPPED FEMA 100-YR FLOOD LIMIT" 3. Show Floodway lines, if present (bold). This would be graphical from the FEMA map. (If floodplain/floodway appears illogical, designer may consult with H&D regarding possible adjustment in order to depict on plans) 4. Show Cut/Fill limits 5. Flow arrows (existing and proposed) 6. If present in survey file, include edge of water and/or edge of waterbody (screened with survey file) 7. For Permit Plans, remove references to Contract Drawings as these drawings are not provided as part of the permit plan set. Remove reference to Specifications/Special Provisions. These documents are not provided to the regulators unless requested. 8. Add "PLAN DATE: " to every sheet in the set which is the latest revision date of the sheet. The dates do not need to match within the plan set. Note: For additional environmental information, see the

Note: For additional environmental information, see the Department's Office of Environmental Planning's Permit Plan Set checklist found on the OEP webpage under "Permitting Process"

DESIGNED BY:

PLAN DATE: APRIL 2, 2024

DRAWING TITLE:

PROJECT NO.
XXX-XXX
DRAWING NO.
DMT_01
SHEET NO.

TITLE SHEET

TOWN



Filename: ...\GENERAL PLAN - Proj XXX.dgn

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95	T X BRUSH	
STATE/FEDERAL WETLA	NDS Guide for the Development of the Permit Plan Set	
<u>Ian</u> ct at completion with propose	ed bridge. Identify project limits. Plan to include	existing survey
cluding existing culverts and the reader can clearly unders	existing contours. Include proposed contours and tand grades and slope. Show SCS for final stabilities and slope.	l label contour zation (toe of slope).
access roads should be show	n (can show temporary access on impact plan(s)) ts, approx, location of utility lines and poles as it	. Some temporary relates to regulated
eneral plan is the most logica	I sheet to show them. It is suggested to discuss ded to be permanent.	with District
d regulatory lines: wetland line present). With any case, do	nes, ordinary high water, FEMA flood limits, and fl NOT show limits of temporary or final design stor	oodway (if FEMA rm.
ures in, or reasonably adjace	nt to, regulated areas should be identified. Call-c	outs do not need to ot limited to):
basins - identify if contains a	deep sump	
ed storm drainage pipes - on t flow 010(max) and velocity	ly identify last pipe in series. V10(max) for the pipe outlets.	
mit plans: round your calculation of the velocity mit plans: round your calculation of the velocity max is the velocity of the	ated 10-year Q up to the nearest whole number for maximum allowable velocity for the proposed or	or itlet. for
e, modified riprap for an apro	on the V10(max) would be 8 fps, this value is from	n
elevations of the drainage ou	tlets are not required.	e standard. etc.)
otprint size. A specific detail	for the outlet protection is not needed, unless a n	on-standard design.
es, and the Hydraulics and Di	rainage Unit.	ested by DEEP
es and required, include call-	out on plan.	
ure: Call-out proposed type a	nd size	
eparate permit planting plan	is required, call-out type of final stabilization and	
ries enhancement (if required). Include note "TO BE DIRECTED IN THE FIELD	BY DEEP
EP STAFF" (as appropriate for vater permit is required, inclu	de note regarding double row of SCS needed near	r wetlands
Jnit or OEP for note). Do not iling that must be left in place	show the double SCS on plans. shall be shown on the plans and called out.	
propriate legend on General P	lan (not required to repeat on each sheet).	
NNTKONM	CINIAL PERMII	PLANS
	ATE: OCTOBER 5, 2023	
	TOWN:	PROJECT NO.
	TOWN	
A BROOK	DRAWING TITLE:	SHEET NO.
	GENERAL SITE PLAN	

RELOCATE UTILITY POLE (BY OTHERS)

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| .E          |                        |                |
|-------------|------------------------|----------------|
| SE IMPACTS  | TOTAL                  | These values c |
| .009 AC.)   | 800 S.F. (0.018 AC.)   | be rounded up  |
| (0.028 AC.) | 2,200 S.F. (0.051 AC.) |                |
| (0.028 AC.) | 3,000 S.F. (0.069 AC.) |                |
|             |                        |                |

BEGIN STAT PROJECT NC STA. 10+75 <u>A:A</u> CP#14 ERLY ROAD 10+00 OAK OAK 0 A K L FARM, LLC MAPLE N/F STANLEY J. LEBUIS Guide for the Development of the Permit Plan Set Flood Impact Plan: 1. This sheet is not necessary if there are no impacts to a floodplain/floodway. The flood impact plan can use the same base map from the wetland impact plan, but would show the flood impact areas. If the entire project site is within a flood zone (ie. zone lines are off the plan sheet or out of the project limits), a note can be added to the plans "entire project area located within FEMA flood zone". 2. Include floodplain (and floodway if present) limits (bold). Floodplain to be identified as noted in the 'Regulatory Floodplain Delineation, Permit Plan Set' dated May 2016 which can be found on the OEP webpage under 'Permit Plan Sets - Guide for Floodplain Lines on Plans'. Floodway is graphical from FEMA map. Do NOT show limits of temporary or final design storm. 3. Plan view to clearly depict temporary and permanent impacts to floodplain areas. To maintain clarity, do not show existing or proposed contours. Avoid showing patterns for items which interfere with clearly understanding the impacts. Construction call-outs not required. - Temporary impacts are in locations that are being restored to original grade - Permanent impacts are locations that contain an overall cut or fill from the original grade and also includes placement of project features (example: riprap, endwalls) 4. Include floodplain impact table. Only provide the permanent volume of impact in cubic yards (values can be rounded up). Do not quantify volume of temporary impact. Do not quantify the plan view impact area (S.F.). If project has minimal fill in floodplain, it is recommended to review to attempt to balance the cut and fill. An excess of fill in the floodway is discouraged/not permitted. All projects within a floodplain/floodway must have early coordination with H&D. 5. Show wetland and OHW limits (bold). 6. SCS does not need to be shown. 7. Depict permanent access road location. Temporary acces roads can be shown as a dashed line and labeled as "approximate location" (Details to be shown on Contract Plans). 8. Any sheetpiling that must be left in place within a regulated area shall be counted as permanent impact and shown on the plan. 9. Call-out limits of impact. The limits of impact should be clearly shown. 10. Limits of impacts 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 area to allow the Contractor the ability for minor variation in construction methods. Utility impacts as part of the project should also be evaluated. SIGNER/DRAFTER: THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE CHECKED BY: THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. SCALE IN FEET 20 40 SCALE 1"=20' REVISION DESCRIPTION SHEET NO. Plotted Date: 1/2/2024 REV. DATE



| 100-YEAR FLOC      | DPLAIN IMPACTS          |  |  |  |
|--------------------|-------------------------|--|--|--|
| CUT AND FILL       |                         |  |  |  |
| VOLUME             | IMPACTS                 |  |  |  |
| EXCAVATION IN FEMA | FILL IN FEMA FLOODPLAIN |  |  |  |
| FLOODPLAIN         |                         |  |  |  |
| 180 C.Y.           | 160 C.Y.                |  |  |  |
|                    |                         |  |  |  |









Filename: ...\ElevationsRev - Proj XXX.dgn

REVISION DESCRIPTION

REV. DATE

SHEET NO. Plotted Date: 1/2/2024





**REPLACEMENT OF** BRIDGE NO. XXXXX **ROUTE X OVER A BROOK** 

## SUGGESTED SEQUENCE OF CONSTRUCTION

CONSTRUCTION OF THIS PROJECT WILL BE PERFORMED BY SHIFTING TWO-WAY TRAFFIC

STAGE 1:

- 1. INSTALL SEDIMENTATION CONTROL SYSTEM (SCS), INCLUDING SCS AT CATCHBASINS AS NEEDED.
- 2. PERFORM CLEARING AND GRUBBING, AS NECESSARY.
- 3. INSTALL TEMPORARY DEWATERING BASIN. BASIN TO REMAIN THROUGH ALL STAGES.
- 4. INSTALL TEMPORARY WATER HANDLING SYSTEM INCLUDING WATER-HANDLING-COFFERDAMS AND TEMPORARY PIPE. WATER HANDLING SYSTEM TO REMAIN THROUGH ALL STAGES.
- 5. CONSTRUCT TEMPORARY ROADWAY WIDENING.

STAGE 2:

- 1. SHIFT TRAFFIC TO SOUTH. CONSTRUCT MICROPILES AND FOOTINGS ON NORTH SIDE
- 2. PARTIALLY REMOVE TOP AND SIDE PORTIONS OF EXISTING CULVERT AND CONSTRUCT THE FINAL CHANNEL OUTSIDE THE TEMPORARY PIPE.
- 3. ERECT NORTH SIDE THREE-SIDED FRAME UNITS. CONSTRUCT WINGWALLS. ENDWALLS AND BACKFILL. COMPLETE NORTH SIDE ROADWAY.

STAGE 3:

- 1. SHIFT TRAFFIC TO NORTH, CONSTRUCT MICROPILES AND FOOTINGS ON SOUTH SIDE.
- 2. PARTIALLY REMOVE TOP AND SIDE PORTIONS OF EXISTING CULVERT AND CONSTRUCT THE FINAL CHANNEL OUTSIDE THE TEMPORARY PIPE.
- 3. ERECT THREE-SIDED FRAME UNITS. CONSTRUCT ENDWALLS AND BACKFILL. COMPLETE STAGE 3 ROADWAY CONSTRUCTION.
- 4. REMOVE THE REMAINING PORTION OF THE EXISTING CULVERT AND COMPLETE CHANNEL CONSTRUCTION
- 5. REMOVE TEMPORARY WATER HANDLING SYSTEM. INSTALL CHANNEL BOULDERS.
- 6. PERFORM FINAL GRADING AND INSTALL PLANTINGS.
- 7. REMOVE EROSION AND SEDIMENTATION CONTROL UPON PERMANENT STABILIZATION.

**Guide for the Development** 

of the Permit Plan Set

scheme for construction/staging of the project and also the method(s) intended for water handling. It is expected that more detailed plans may be developed for final construction and also submitted by the contractor. It is intended that these permit plans are general enough that later contract plans can comply with the intent of the permit plans. 2. A "Handling Water Typical Schematics" guide has been developed and can be found on the OEP webpage. The guide is also referenced in an Engineering Directive ED-2019-6 which includes additional handling water information. 3. Include "SUGGESTED SEQUENCE OF CONSTRUCTION" which lists the basic information for construction of the project as it relates to regulated areas. Include general work within wetlands/watercourses, and the installation of items such as debris shield (if required) with a minimum elevation (no need to show in view, can state in sequence) - Sedimentation Control System (SCS) (install and then removal upon final stabilization)

- installation and removal of water handling system
- fisheries enhancements (include notifying DEEP Fisheries 10 days in advance of installation, if required)
- installation of plantings as required for the project.
- 4. Call-out size of temporary pipe for gravity flow (or minimum channel width, if applicable). Call-out the pump hose if pumping (hose size and the location
- of the pump is not required). 5. Show dewatering basin (if needed).
- 6. Include appropriate water-handling-cofferdam detail and the proposed top elevation of the water-handling-cofferdam. Top elevation to be equal or slightly above temporary design storm elevation per project specifics. A maximum elevation may be
- specified depending on project requirements. Provide minimum elevation for sheeting when using as water handling.
- 7. State any CTDEEP/Fisheries prohibited actions (example: water handling techniques
- 8. Include temporary hydraulic table as appropriate for the project. For pumping as an option, include a low-flow pumping rate in the table. 9. Include standard Water-Handling Notes and additional notes for any project specifics.
- 10. Note any regulatory Time-of-Year (TOY) restriction(s). The TOY will be project specific. The designer should refer to DEEP Fisheries comments and OEP guidance with the TOY. Include the bulleted list regarding Department's review of methods. This bulleted list of unconfined work considerations applies to inland projects only (non-tidal waters).

DRAWING TITLE:

## **ENVIRONMENTAL PERMIT PLANS**

TOWN

**STAGING**/

PLAN DATE: OCTOBER 5, 2023



XXX-XXX DRAWING NO. **PMT-06** SHEET NO. WATER HANDLING PLAN



| S. ALL PLANT MATERIA<br>CONFORMING TO SECT<br>STOCK. CTDOT OEP W<br>6. NO PLANTINGS SHA<br>7. AREA TO BE TREATE<br>FOR FINAL PLANTING,<br><b>VIRONMEN</b><br>PLAN DATE  | ED FOR INVASIVES SHALL BE PROPERLY PREPARED   SEEDING, AND RESTORATION.   NTAL PERMIT PLAN   E: OCTOBER 5, 2023     TOWN:   TOWN:   DRAWING TITLE:     PROJECT IN     XXX-   PROJECT IN | °.<br>-XXX<br>™.<br>Г-07 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| S. ALL PLANT MATERIA<br>CONFORMING TO SECT<br>STOCK. CTDOT OEP W<br>6. NO PLANTINGS SHA<br>7. AREA TO BE TREATE<br>FOR FINAL PLANTING,<br><b>IVIRONMEN</b><br>PLAN DATE | ED FOR INVASIVES SHALL BE PROPERLY PREPARED<br>SEEDING, AND RESTORATION.<br><b>NTAL PERMIT PLAN</b><br>: OCTOBER 5, 2023                                                                | <b>S</b>                 |
| 5. ALL PLANT MATERIA<br>CONFORMING TO SECT<br>STOCK. CTDOT OEP W<br>6. NO PLANTINGS SHA<br>7. AREA TO BE TREATE<br>FOR FINAL PLANTING,                                  | ED FOR INVASIVES SHALL BE PROPERLY PREPARED<br>SEEDING, AND RESTORATION.                                                                                                                | S                        |
| 5. ALL PLANT MATERIA<br>CONFORMING TO SECT<br>STOCK. CTDOT OEP W<br>6. NO PLANTINGS SHA<br>7. AREA TO BE TREATE<br>FOR FINAL PLANTING,                                  | ED FOR INVASIVES SHALL BE PROPERLY PREPARED SEEDING, AND RESTORATION.                                                                                                                   |                          |
| 5. ALL PLANT MATERIA<br>CONFORMING TO SECT<br>STOCK. CTDOT OEP W<br>6. NO PLANTINGS SHA<br>7. AREA TO BE TREATE                                                         | ED FOR INVASIVES SHALL BE PROPERLY PREPARED                                                                                                                                             |                          |
| S. ALL PLANT MATERIA<br>CONFORMING TO SECT<br>STOCK. CTDOT OEP W                                                                                                        | ALL BE PLACED IN MOW AREA                                                                                                                                                               |                          |
|                                                                                                                                                                         | AL SHALL BE NURSERY GRADE STRAIGHT SPECIES,<br>TION 3 OF THE AMERICAN STANDARDS FOR NURSERY<br>VILL REVIEW AND APPROVE PROPOSED PLANTINGS.                                              |                          |
| WETLAND GRASS ESTA<br>LIMIT SHALL BE SEEDE<br>OTHER SEED MIX AS S                                                                                                       | ABLISHMENT. DISTURBED AREAS ABOVE THE WETLAND<br>ED WITH CONSERVATION SEEDING FOR SLOPES, OR<br>SPECIFIED. ALL AREAS SHALL BE RESTORED.                                                 |                          |
| 3. WOOD CHIP MULCH<br>4. DISTURBED AREAS                                                                                                                                | I SHALL NOT BE PLACED IN THE WETLAND AREA.<br>BELOW THE WETLAND LIMIT SHALL BE SEEDED WITH                                                                                              |                          |
| 2. PROPOSED PLANTIN<br>OR THEIR DESIGNATEI                                                                                                                              | E OF ENVIRONMENTAL PLANNING (OEP).<br>NGS TO BE FIELD LOCATED BY CTDOT OEP<br>D REPRESENTATIVE.                                                                                         |                          |
| 1. PLANTINGS ON THIS<br>SUBSTITUTIONS TO TH                                                                                                                             | S SHEET ARE FOR ENVIRONMENTAL PERMITTING. ANY<br>HE PERMIT PLANTINGS SHALL BE COORDINATED WITH THE                                                                                      |                          |
| NOTES                                                                                                                                                                   |                                                                                                                                                                                         |                          |
|                                                                                                                                                                         |                                                                                                                                                                                         | 1 C                      |
| STATE/F                                                                                                                                                                 | FEDERAL WETLANDS FR. HO.<br>#290                                                                                                                                                        | ST<br>CT                 |
|                                                                                                                                                                         | 1 <sup>1</sup> / <sub>2</sub> STOR                                                                                                                                                      | Y                        |
|                                                                                                                                                                         | POLE O WA                                                                                                                                                                               | LK //                    |
| •                                                                                                                                                                       | BRUSH END G BCLC<br>LAWN B                                                                                                                                                              |                          |
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|                                                                                                                                                                         | STERLY ROAD                                                                                                                                                                             |                          |
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| BCLC BCLC                                                                                                                                                               | G MBR                                                                                                                                                                                   |                          |
|                                                                                                                                                                         | SNET / EB3 ***                                                                                                                                                                          |                          |
| × × B                                                                                                                                                                   | SUX WIRE FENCE                                                                                                                                                                          |                          |
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| WOODS                                                                                                                                                                   |                                                                                                                                                                                         |                          |
| EDING                                                                                                                                                                   | ET AL                                                                                                                                                                                   |                          |
|                                                                                                                                                                         | IN/F<br>THEODORE L. SOWA                                                                                                                                                                |                          |
| ited only when required by the<br>I, a coordination meeting shall<br>pe Design Unit, OEP, and/or<br>fect.                                                               |                                                                                                                                                                                         |                          |
| vetlands. Additional items not<br>hown at the discretion of<br>ited only when required by the<br>I, a coordination meeting shall<br>pe Design Unit, OEP, and/or<br>ect. |                                                                                                                                                                                         |                          |
| vetlands. Additional items not<br>shown at the discretion of<br>d, a coordination meeting shall<br>pe Design Unit, OEP, and/or<br>ject.                                 |                                                                                                                                                                                         |                          |