

PLOTTED DATE: 4/2/2024

LIST OF DRAWINGS		
DRAWING NO.	DRAWING TITLE	
PMT-01	TITLE SHEET	
PMT-02	GENERAL SITE PLAN	
PMT-03	WETLAND/WATERCOURSE IMPACT PLAN	
PMT-04	100-YEAR FLOOD IMPACT PLAN	
PMT-05	ELEVATION AND SECTION PLAN	
PMT-06	WATER HANDLING PLAN AND NOTES	
PMT-07	PERMIT PLANTING PLAN	
PMT-08	SCOUR HOLE AND ROCK WEIR DETAILS	

PROJECT DESCRIPTION: REHABILITATION OF BRIDGE NO. XXXXX

For this sample project, the bypass pipe was designed using a 2-year frequency discharge. The reline pipe was designed for the 100-year storm. The sample project falls within a mapped FEMA Floodway with a FEMA elevation provided.

Impact areas include ALL areas to be impacted due to the project construction and activities related to the project, both temporary and permanent. Engineering judgement should be used to determine the amount of area the contractor needs to perform the work, while trying to minimize the disturbance to the wetland resources. The designer should also evaluate any utility work and access roads that may be needed as part of the project and include any of those associated impacts.

As with all watercourse crossing projects, but especially relining projects, the Regulating Agencies are concerned with changes in water surface elevation (W.S.E.) and maintaining fish passage. Reviewing DEEP Fisheries comments and impacts to fish passage is important to consider in design, along with impacts to any nearby properties due to any changes in W.S.E. Early consultation with the Office of Environmental Planning (OEP) regarding any Fisheries concerns and the Hydraulics and Drainage Unit (H&D) for review of floodplain/floodway concerns is recommended.

NOTE: This sample project has been altered from the actual project to produce this sample set of plans.

to match within plan set)

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 Čut/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.

SAMPLE PROJECT USED FOR PLANS

The following sample project involves relining an existing 72" pipe with a 63" pipe. The project is proposed to be constructed using a bypass pipe through the existing pipe for waterhandling. This project involves installing 2 access roads, one temporary and one permanent, for construction. Due to the location (major highway with 132,000 ADT) and approx 24 ft. of fill over the existing pipe, relining the existing pipe was determined to best viable option for the crossing.

The following permits are anticipated for this project: Inland Wetland and Watercourses (DEEP LWRD IW) DEEP Pre-Construction Notification (DEEP LWRD PCN)

US Army Corps of Engineers Pre-Construction Notification (USACE PCN) Note: a relining is an automatic PCN permit

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.
- Include general index for "LIST OF DRAWINGS".
 Include GENERAL NOTES 1-5 (Additional notes may be added as
- appropriate for the project). Revise General Note 4 as appropriate for project. Update General 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

On All Other Plan Views:

Show wetland limits and ordinary high water (OHW) (both bold)
 If within a regulated flood zone, show existing flood limit lines on plan

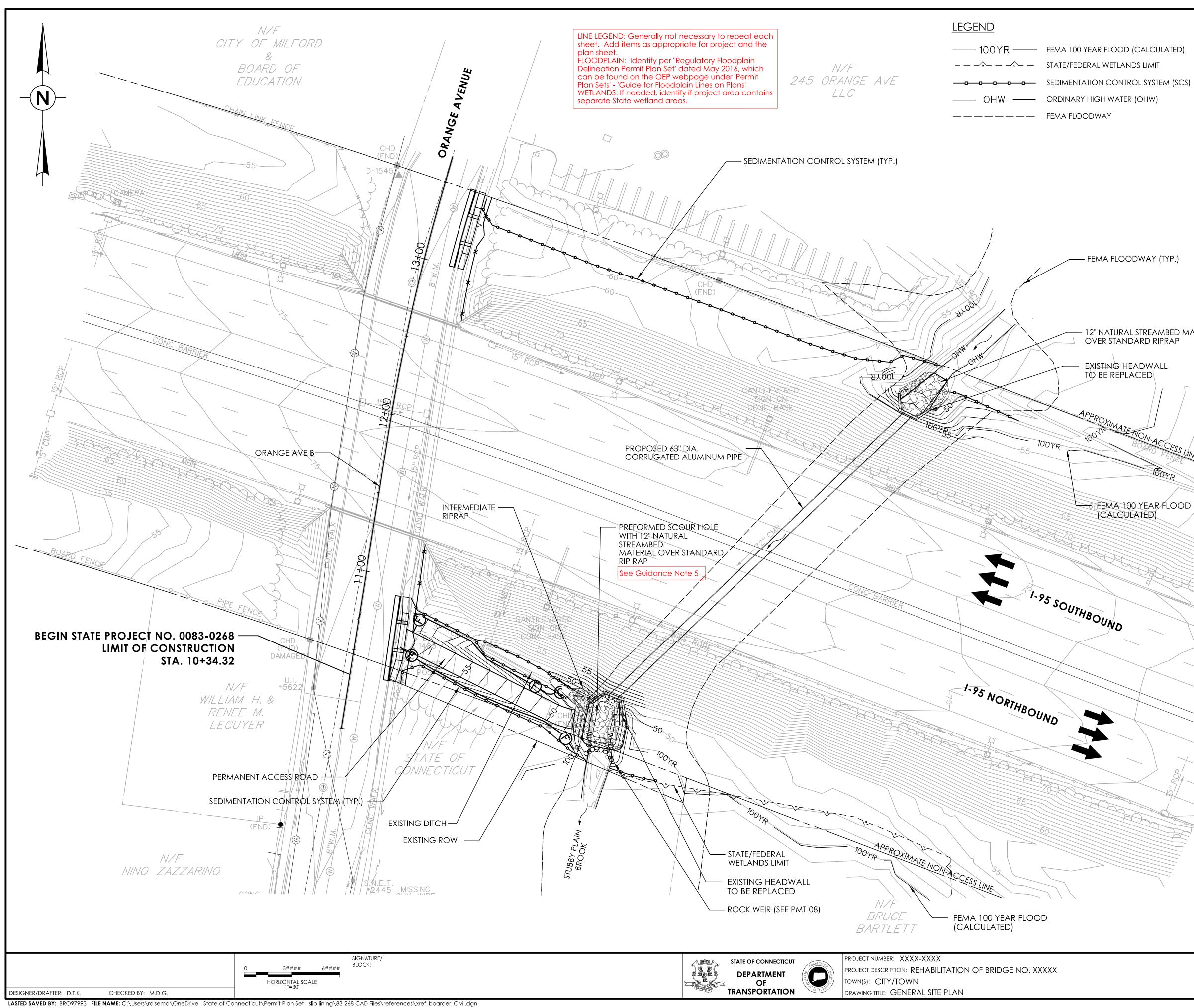
views (bold). Identify using the guidance in the 'Regulatory Floodplain Delineation, Permit Plan Set' dated May 2016 which can be found on the OEP webpage under 'Permit Plan Sets' - 'Guide for Floodplain Lines on Plans' and is summarized here:

- 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"

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:	
Block for Consultant stamp and signature if applicable		

PLAN DATE: APRIL 2, 2024



PLOTTED DATE: 12/29/2023

- FEMA FLOODWAY (TYP.)

- 12" NATURAL STREAMBED MATERIAL OVER STANDARD RIPRAP

EXISTING HEADWALL

APPROXIMATENON-ACCESS LINE TODYR



Guide for the Development of the Permit Plan Set

General Site Plan:

1. Show project at completion. Identify project limits. Plan to include existing survey (screened), including existing culverts and existing contours. Include proposed contours and label contour elevations so the reader can clearly understand grades and slope. Show SCS for final stabilization (toe of slope). 2. Permanent access roads should be shown (can show temporary access roads on impact plan(s)). Some temporary items can be shown:

construction easements, approx. location of utility lines and poles as it relates to regulated areas, if the general plan is the most logical sheet to show them. It is suggested to discuss with District Maintenance if access roads are recommended to be permanent. 3. Show & Bold regulatory lines: wetland lines, ordinary high water, FEMA flood limits, and floodway (if FEMA flood limits are present). With any case, do NOT show limits of temporary or final design storm.

4. Project features in, or reasonably adjacent to, regulated areas should be identified. Call-outs do not need to be exact CTDOT pay item description. Plan to show all project related items including (but not limited to):

- Catch basins identify if contains a deep sump
- Stormwater quality measures - Proposed storm drainage pipes - only identify last pipe in series. Call-out flow Q10(max) and velocity V10(max) for the pipe outlets. For permit plans: round your calculated 10-year Q up to the nearest whole number for the Q10(max). The V10(max) is the maximum allowable velocity for the proposed outlet, for instance, modified riprap for an apron the V10(max) would be 8 fps, this value is from Table 11.11 of the CTDOT Drainage Manual. Invert elevations of the drainage outlets are not required.
- Call-out the outlet protection type (riprap apron, scour hole), riprap size (intermediate, standard, etc.), and footprint size. A specific detail for the outlet protection is not needed, unless it is a non-standard design.
- Call-out streambed material and depth. Call-out any required slope protection material
- Culvert Lining: Call-out type and size
- Add flow arrows

- If no separate permit planting plan is required, call-out type of final stabilization and restoration measures on the General Plan. 5. The necessity for streambed material over riprap in a scour hole shall be vetted through OEP, DEEP Fisheries, and the Hydraulics and Drainage Unit.

6. Show fisheries enhancement (if required). Include note "TO BE DIRECTED IN THE FIELD BY DEEP FISHERIES/OEP STAFF" (as appropriate for project). Details can be shown on separate sheet.

7. If a stormwater permit is required, include note regarding double row of SCS needed near wetlands (contact EPC Unit or OEP for note). Do not show the double SCS on plans.

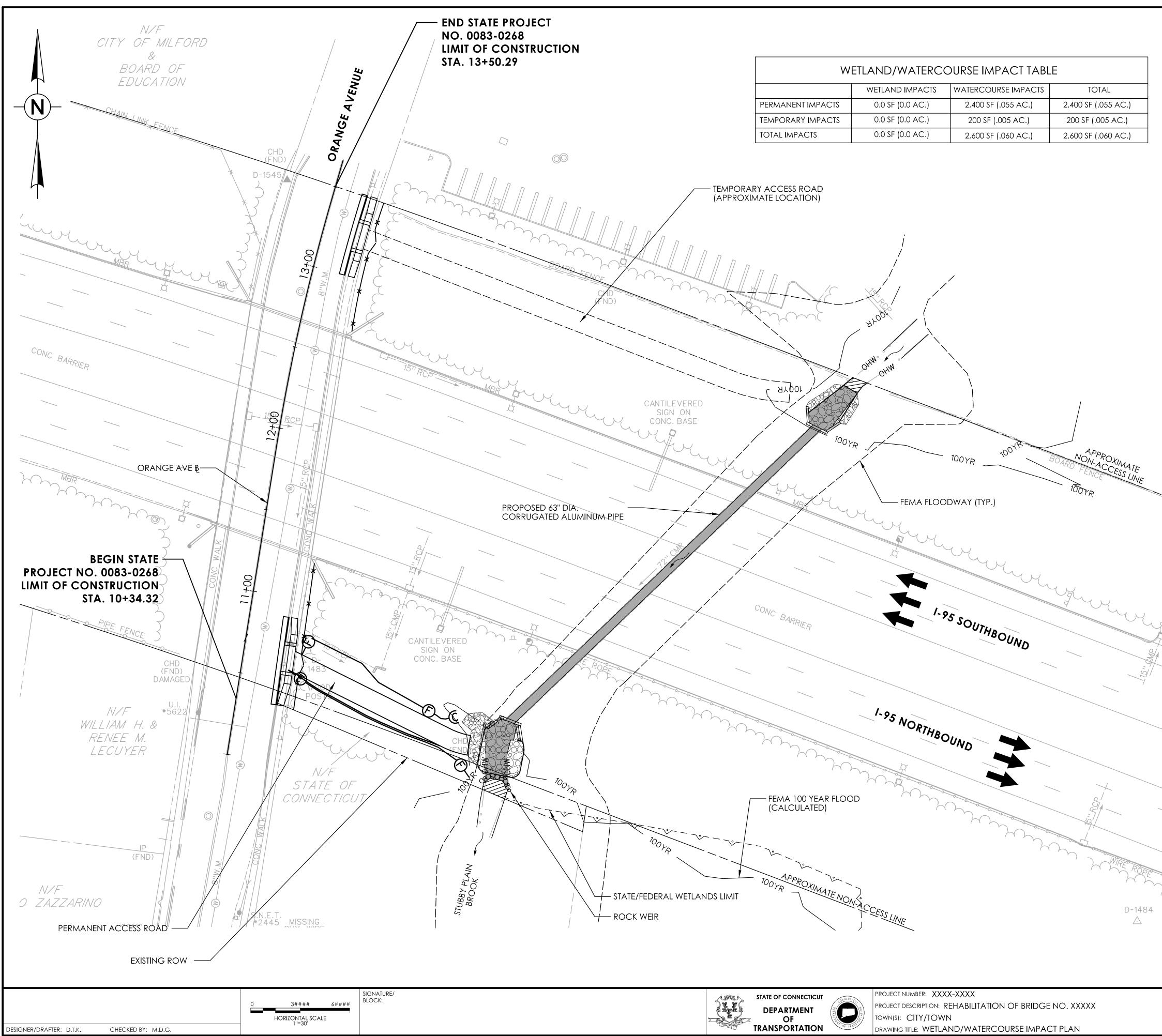
8. Any sheetpiling that must be left in place shall be shown on the plans and called-out.

9. Include appropriate line legend on General Plan (not required to repeat on each sheet)



PLAN DATE: DECEMBER 15, 2023

PMT-02 HEET NO.



LASTED SAVED BY: BRO97993 FILE NAME: C:\Users\roisema\OneDrive - State of Connecticut\Permit Plan Set - slip lining\83-268 CAD Files\references\xref_boarder_Civil.dgn **PLOTTED DATE:** 12/29/2023

WETLAND/WATERCOURSE IMPACT TABLE			
	WETLAND IMPACTS	WATERCOURSE IMPACTS	TOTAL
PERMANENT IMPACTS	0.0 SF (0.0 AC.)	2,400 SF (.055 AC.)	2,400 SF (.055 AC.)
TEMPORARY IMPACTS	0.0 SF (0.0 AC.)	200 SF (.005 AC.)	200 SF (.005 AC.)
TOTAL IMPACTS	0.0 SF (0.0 AC.)	2,600 SF (.060 AC.)	2,600 SF (.060 AC.)

These values can be rounded up

Guide for the Development of the Permit Plan Set

Wetland/Watercourse Impact Plan

1. Include wetland & OHW lines (both bold). Typically, wetland lines are identified as "STATE/FEDERAL WETLANDS". In rare cases, as determined by the soil scientist, where the State & Federal regulated areas do not coincide, identify/call-out areas that are "STATE WETLAND".

 Include floodplain/floodway limits lines (bold), if present.
 SCS does not need to be shown.
 Plan to clearly depict temporary and permanent impacts. To maintain clarity, do not show existing or proposed contours. Avoid showing patterns for items which interfere with clearly understanding impacts. Construction item call-outs not required. 5. Call-out limits of impact. Limits of impact should be clearly shown and may or may not coincide with the R.O.W. line or easement lines.

6. 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 area to allow the Contractor the ability for minor variation in construction methods. Utility impacts as part of the project should also be evaluated.

7. Depict permanent access road location. Temporary access roads can be shown as a dashed line and labeled "approximate location". (Details to be shown on Contract Plans). If a permanent access road is to remain within a regulated area, then a section detail of the access road should be provided. If possible, permanent access roads should be removed from the regulated area.

8. Any sheetpiling that must be left in place within a regulated area shall be counted as permanent impact and shown on the plan.

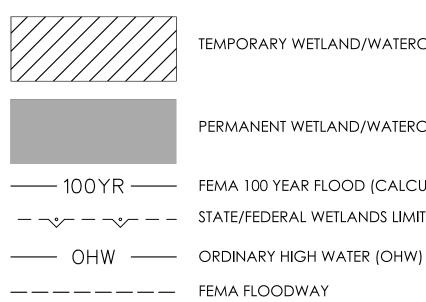
9. Include wetland and watercourse impact table. Quantify impacts to wetlands (above OHW) and watercourses (below OHW) (values can be rounded up). A lined pipe carrying a watercourse is to be counted as permanent watercourse impact. If there are independent areas of State and/or Federal wetlands, then impacts to those resources must be listed separately. Separate distinct wetland areas (often found on long linear projects) should be numbered (ex. WL1, WL2) and the associated impacts noted in the table (these numbers will correspond with the wetland report). 10. Add note for the Contractor's restriction of work in the regulated areas. (note which

is shown on this sheet above the Legend)

NOTE:

THE CONTRACTOR SHALL NOT WORK WITHIN THE LIMITS OF THE WETLANDS/WATERCOURSE WITH THE EXCEPTION OF THOSE AREAS DELINEATED AS TEMPORARY OR PERMANENT IMPACTS. ALL DISTURBED AREAS SHALL BE RESTORED.

LEGEND



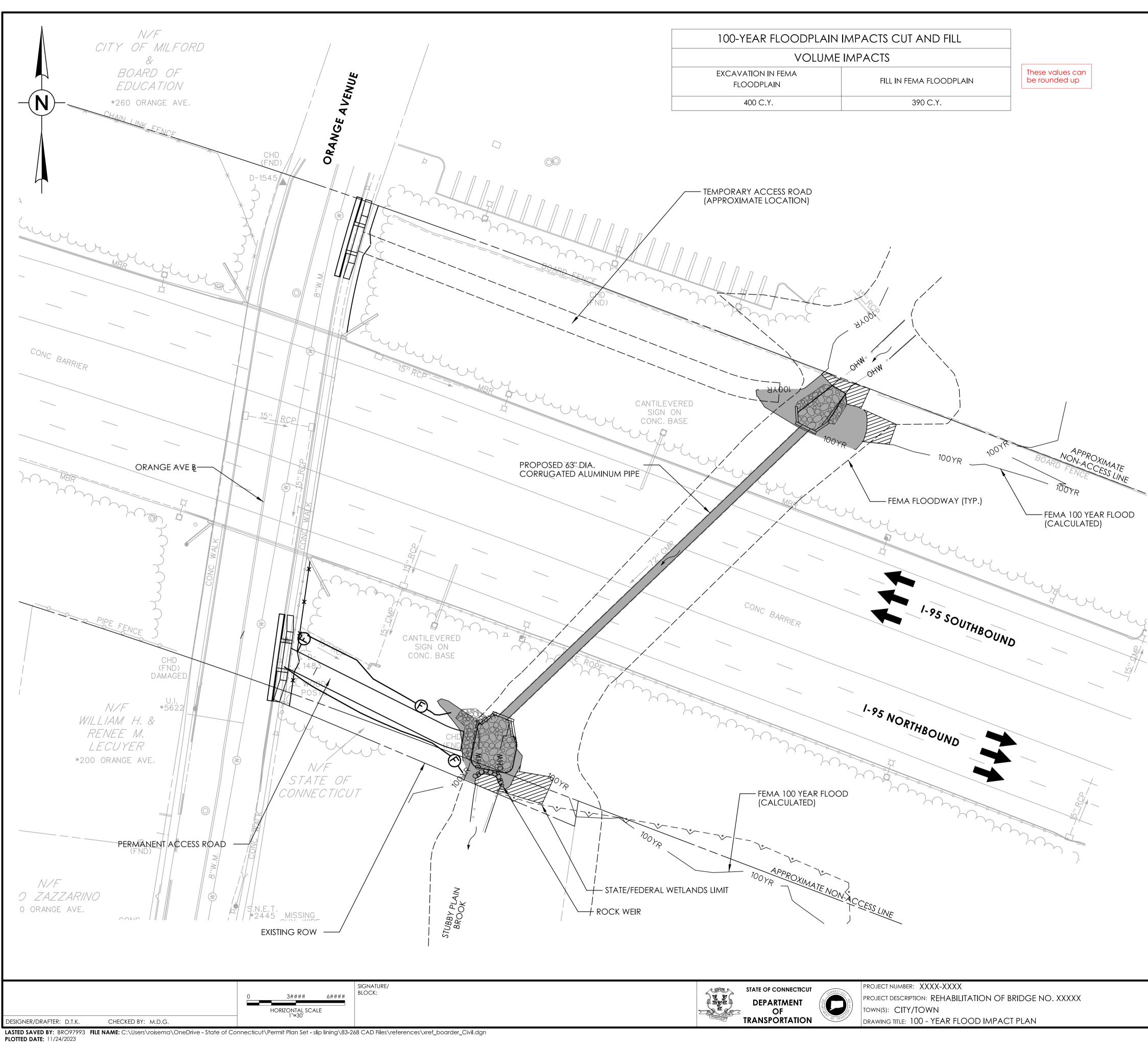
TEMPORARY WETLAND/WATERCOURSE IMPACTS

PERMANENT WETLAND/WATERCOURSE IMPACTS

------ 100YR ------ FEMA 100 YEAR FLOOD (CALCULATED)

ENVIRONMENTAL PERMIT PLANS PLAN DATE: DECEMBER 15, 2023

PMT-03 SHEET NO.



100-year floodplain impacts cut and fill		
VOLUME	IMPACTS	
EXCAVATION IN FEMA FLOODPLAIN	FILL IN FEMA FLOODPLAIN	These be rou
400 C.Y.	390 C.Y.	

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 as the wetland/watercourse impact plan, but would show the flood impact areas. If the entire project is within a flood zone (ie. zone lines are off the plan sheet or out of project limits), a note can be added to the plans "entire project area located within FEMA Flood Zone." 2. Include floodplain limits (and floodway if present) (both 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 proposed design storm.

3. Plan 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 impacts. Construction item 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 impacts 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 the project has minimal fill in the floodplain, it is recommended to review to attempt to balance 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.

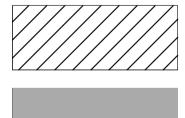
7. Call-out limits of impact. Limits of impact should be clearly shown and may or may not coincide with the R.O.W. line or easement lines.

8. 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 area to allow the Contractor the ability for minor variation in construction methods. Utility impacts as part of the project should also be evaluated.

9. Depict permanent access road location. Temporary access roads can be shown as dashed and labeled as an "approximate location". (Details to be shown on Contract Plans)

10. Any sheetpiling that must be left in place within a regulated area shall be counted as permanent impact and shown on the plan.

LEGEND



— — — — — — FEMA FLOODWAY

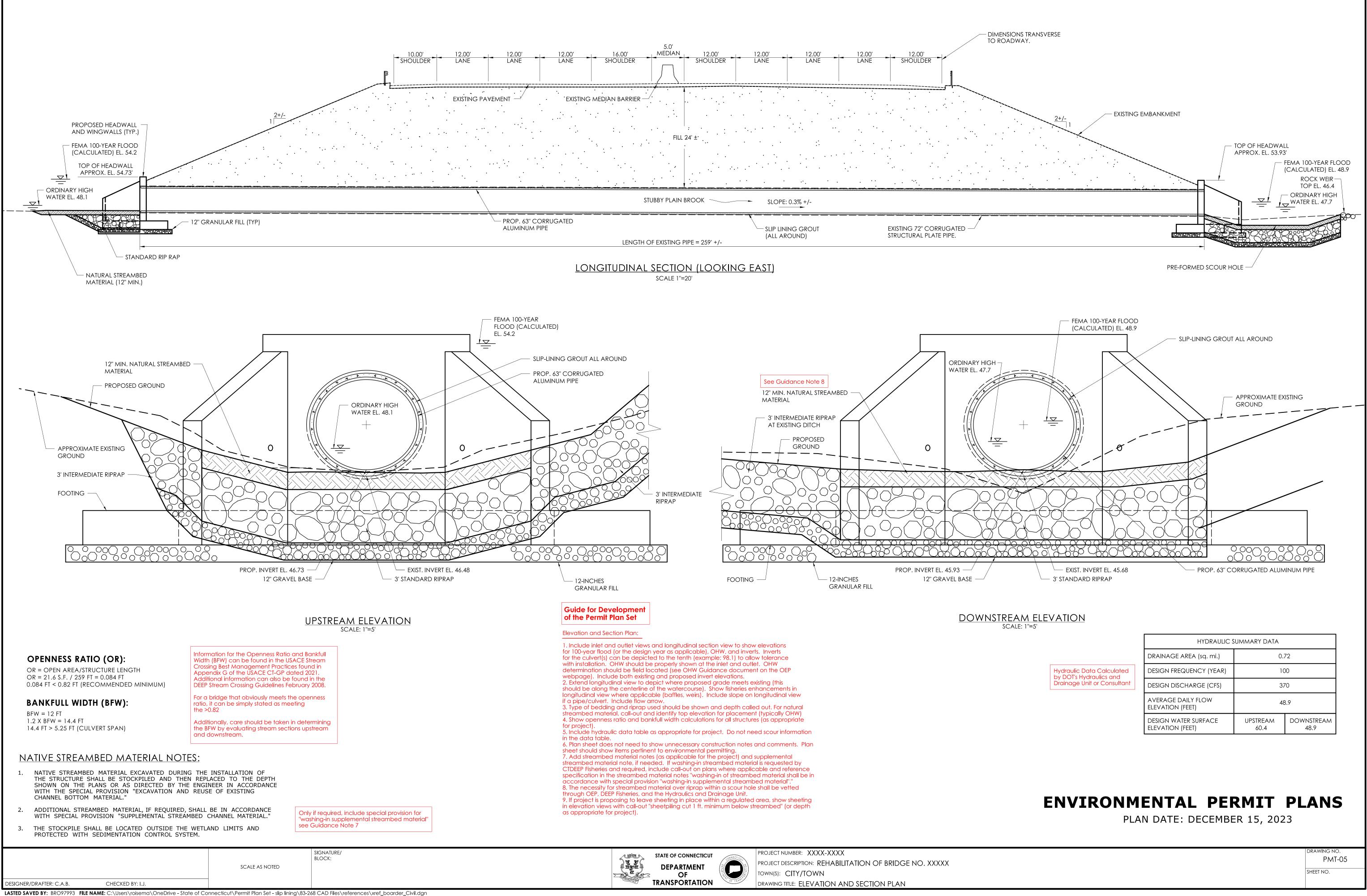
TEMPORARY FLOODPLAIN IMPACTS

PERMANENT FLOODPLAIN IMPACTS

------ 100 YR ------ FEMA 100 YEAR FLOOD (CALCULATED)

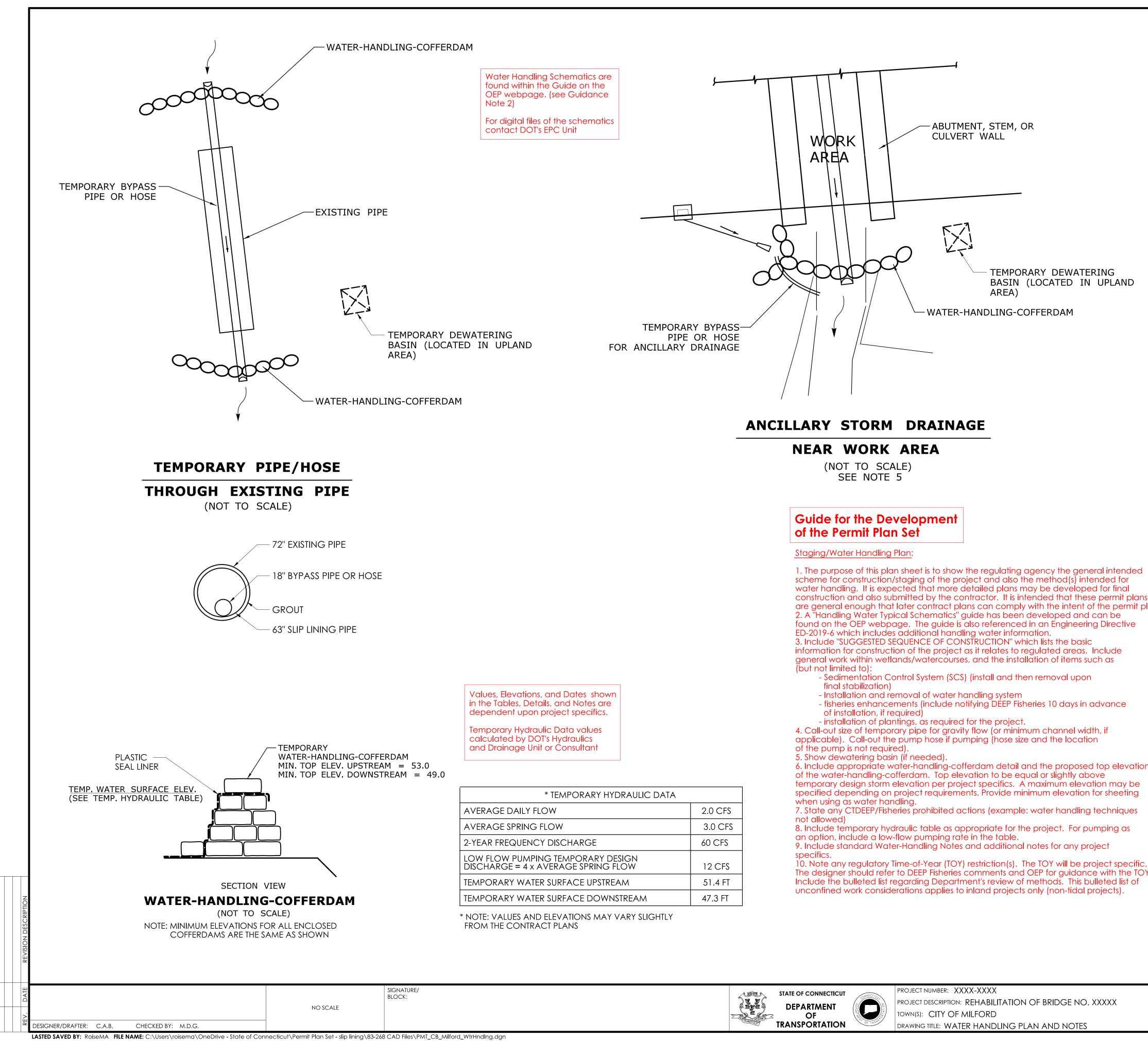
ENVIRONMENTAL PERMIT PLANS PLAN DATE: DECEMBER 15, 2023

2 AWING NO PMT-04 SHEET NO.



PLOTTED DATE: 12/29/2023

HYDRAULIC SUMMARY DATA		
DRAINAGE AREA (sq. mi.)	0.72	
DESIGN FREQUENCY (YEAR) 100		
DESIGN DISCHARGE (CFS)	370	
AVERAGE DAILY FLOW ELEVATION (FEET)	48.9	
DESIGN WATER SURFACE ELEVATION (FEET)	UPSTREAM DOWNSTREAM 60.4 48.9	



PLOTTED DATE: 12/29/2023

1. The purpose of this plan sheet is to show the regulating agency the general intended 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.

6. Include appropriate water-handling-cofferdam detail and the proposed top elevation temporary design storm elevation per project specifics. A maximum elevation may be

The designer should refer to DEEP Fisheries comments and OEP for guidance with the TOY. Include the bulleted list regarding Department's review of methods. This bulleted list of

MPORARY HYDRAULIC DATA	
	2.0 CFS
N	3.0 CFS
SCHARGE	60 CFS
EMPORARY DESIGN AGE SPRING FLOW	12 CFS
RFACE UPSTREAM	51.4 FT
RFACE DOWNSTREAM	47.3 FT

SUGGESTED SEQUENCE OF CONSTRUCTION

- INSTALL SEDIMENTATION CONTROL SYSTEM (SCS), REMOVE INVASIVE SPECIES, AND CLEAR AND GRUB THE WORK AREA.
- CONSTRUCT TEMPORARY/PERMANENT ACCESS ROADS AND LAYDOWN/STAGING
- INSTALL WATER-HANDLING-COFFERDAM, BYPASS PIPE, AND DEWATERING BASIN.
- CLEAN EXISTING CULVERT.
- PRESSURE GROUT THE VOIDED AREAS BEHIND THE EXISTING PIPE WHERE NECESSARY.
- TEMPORARILY REMOVE THE BYPASS PIPE. SLIP LINE THE EXISTING PIPE WITH A 63" DIAMETER CORRUGATED ALUMINUM PIPE.
- RE-INSTALL BYPASS PIPE.
- GROUT THE ANNULAR SPACE BETWEEN THE EXISTING AND PROPOSED PIPES.
- CONSTRUCT COFFERDAM AND DEWATERING AT BOTH INLET AND OUTLET.
- 10. REMOVE AND REPLACE THE INLET AND OUTLET HEADWALLS AND WINGWALLS.
- 11. REMOVE COFFERDAM AND DEWATERING AT BOTH INLET AND OUTLET.
- 12. BACKFILL AND GRADE AROUND NEW HEADWALLS.
- INSTALL PREFORMED SCOUR HOLE, ROCK WEIR, RIPRAP, AND NATURAL STREAMBED MATERIAL TO BRING THE STREAMBED UP TO THE NEW INVERT ELEVATION. THE ENGINEER, OR THEIR AUTHORIZED DELEGATE, SHALL BE NOTIFIED 10 DAYS IN ADVANCE OF THE ROCK WEIR INSTALLATION. 13.
- REMOVE TEMPORARY WATER-HANDLING-COFFERDAM AND BYPASS PIPES, RESTORE FLOWS THROUGH THE CULVERT. 14.
- RESTORE AREAS WITH CONSERVATION SEED MIX, INSTALL PLANTINGS, AND REMOVE SCS UPON PERMANENT STABILIZATION. 15.

WATER-HANDLING NOTES

- THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE WATER HANDLING SYSTEM AS REQUIRED DURING CONSTRUCTION.
- A DEWATERING FACILITY SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS.
- TEMPORARY WATER HANDLING SYSTEM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA, SHALL BE ABLE TO SUPPORT THE CONSTRUCTION ACTIVITY, AND SHALL CONFORM TO PERMITS.

ANY WATER HANDLING SCHEME DEPICTED WITHIN THE DEPARTMENT'S "HANDLING WATER TYPICAL SCHEMATICS" MAY BE UTILIZED UNLESS SPECIFICALLY PROHIBITED. A MEANS AND METHOD FOR WATER HANDLING SYSTEM SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL.

- WATER HANDLING SYSTEM SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMIT PLANS.
- ANY STORM DRAINAGE DISCHARGING INTO A CONFINED WORK AREA FROM EXISTING OR PROPOSED STORM DRAINAGE PIPES OR DRAINAGE SWALES SHALL BE DIVERTED OR PUMPED OUTSIDE THE CONFINED AREA AND IS INCLUDED AS PART OF WATER HANDLING. PUMPS/PIPES SHALL BE SIZED BY THE CONTRACTOR TO HANDLE THE EXPECTED FLOWS AND BE DISCHARGED TO A STABLE LOCATION. THE CONTRACTOR SHALL SUBMIT THE MEANS AND METHODS OF HANDLING STORM DRAINAGE TO THE ENGINEER FOR APPROVAL.
- IF PUMP SYSTEM IS PROPOSED DURING LOW FLOW CONDITIONS, THE PUMP SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR. PUMP SYSTEM PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

BASED UPON FIELD CONDITIONS, WORK DURATION, AND EXPECTED WEATHER CONDITIONS, THE ENGINEER MAY APPROVE A CONSTRUCTION WATER HANDLING PLAN WITH LOWER PUMPING FLOWS, PROVIDED THAT THIS INCLUDES A CONTINGENCY PLAN, WHICH MINIMIZES NEGATIVE IMPACTS AND SAFELY CONVEYS LARGER FLOWS THROUGH THE WORK AREA.

UNCONFINED IN-STREAM WORK BMP NOTE:

See Guidance Note 10

ANY UNCONFINED IN-STREAM WORK WITHIN THE WATERCOURSE SHALL BE RESTRICTED TO THE PERIOD FROM JUNE 1 TO SEPTEMBER 30, INCLUSIVE.

THE DEPARTMENT WILL REVIEW AND MAY APPROVE THE METHODS OF UNCONFINED IN-WATER WORK WITH THE CONSIDERATION OF THE FOLLOW:

- * PROPOSED SCHEDULE FOR WORK OPERATIONS * ALL UNCONFINED IN-WATER WORK SHALL BE MINOR IN NATURE
- * DISTURBANCE SHALL BE LIMITED TO AREAS THAT HAVE BEEN APPROVED FOR TEMPORARY AND PERMANENT IMPACT
- * BEST MANAGEMENT PRACTICE SHALL BE UTILIZED WHEREVER POSSIBLE TO MINIMIZE TURBIDITY/SEDIMENT TRANSPORT DOWNSTREAM * DISTURBED AREAS AND THE DURATION OF DISTURBANCE SHALL BE MINIMIZED
- TO THE EXTENT POSSIBLE * IN-STREAM WORK SHALL BE DONE DURING PERIODS OF LOW FLOW

ENVIRONMENTAL PERMIT PLANS

PLAN DATE: DECEMBER 15, 2023

PMT-06 SHEET NO.



Permit Planting Plan

1. Plan depicts completed project with proposed planting area (shaded) as related to the environmental permit planting plan. If a designated permit planting plan is not required for the project, call-outs can be added to the General Plan for seeding type, restoration measures, and any invasive vegetation control. . Coordinate with the Department's Landscape Design Unit for rojects with plantings not associated with the permit planting plan. . This permit planting plan scheme shall not be used for mitigation

4. Include permit plant list table and depict the plant's wetland rating (indicator). Include S.F. of proposed planting area and total number of plants with shaded legend. (For the Contract Plans, planting items under the permit planting pt) shall be identified as "Permit Plantings" on the detail estimate sheet.)

. Item Numbers and seed mix quantities are not needed for the permit planting plan. However, this information is included in the Contract Plans. 6. Permit Planting Plan to include invasive species control (required for USACE PCN permit). Use appropriate hatching and identify in legend. If the entire project area is to be treated, a note and call-out can be added in place of cross hatching the entire project area. Include approximate amount of treatment area with hatched legend.

7. Add notes on plan sheet that are appropriate for the project. Include notes stating 'no woodchip mulch allowed within wetland area' and 'all disturbed areas shall be restored'. 8. Any plantings outside the Department's R.O.W. shall be vetted through the Office of Rights of Way to ensure the right to plant is included in the easement agreement.

Designer should ensure in the layout that not trees (taller than ft. at maturity) are placed under utility lines. . Call-out general areas of seed mixes if necessary.

11. SCS does not need to be shown.

Note to Designers: explanation of Planting Plans for Permits - The "PERMIT PLANTING PLAN" within the Permit Plan Set schematically reflects the proposed landscape items within the regulated area/disturbed wetlands. Additional items not in the regulated area may be included at the discretion of the Landscape Designer. - A "MITIGATION PLAN" is created only when required by the

Regulating Agency. If required, a coordination meeting shall be scheduled with the Landscape Design Unit, OEP, and/or other units involved with the project.

> TURF ESTABLISHMENT - LAWN ALONG EAST SIDE OF SIDEWALK

 \mathcal{T}

PIPE FENCE

(FND) DAMAGE

*562

N/F WILLIAM H. & RENEE M. LECUYER #200 ORANGE AVE.





####

SIGNATURE/ BLOCK:

STATE OF

GRASS

EXISTING ROW

HYDRANGEA

🖓 🖉 🐍 CULT. AREA

#2445 MISSING

CONNECTICUT

VENUE

V

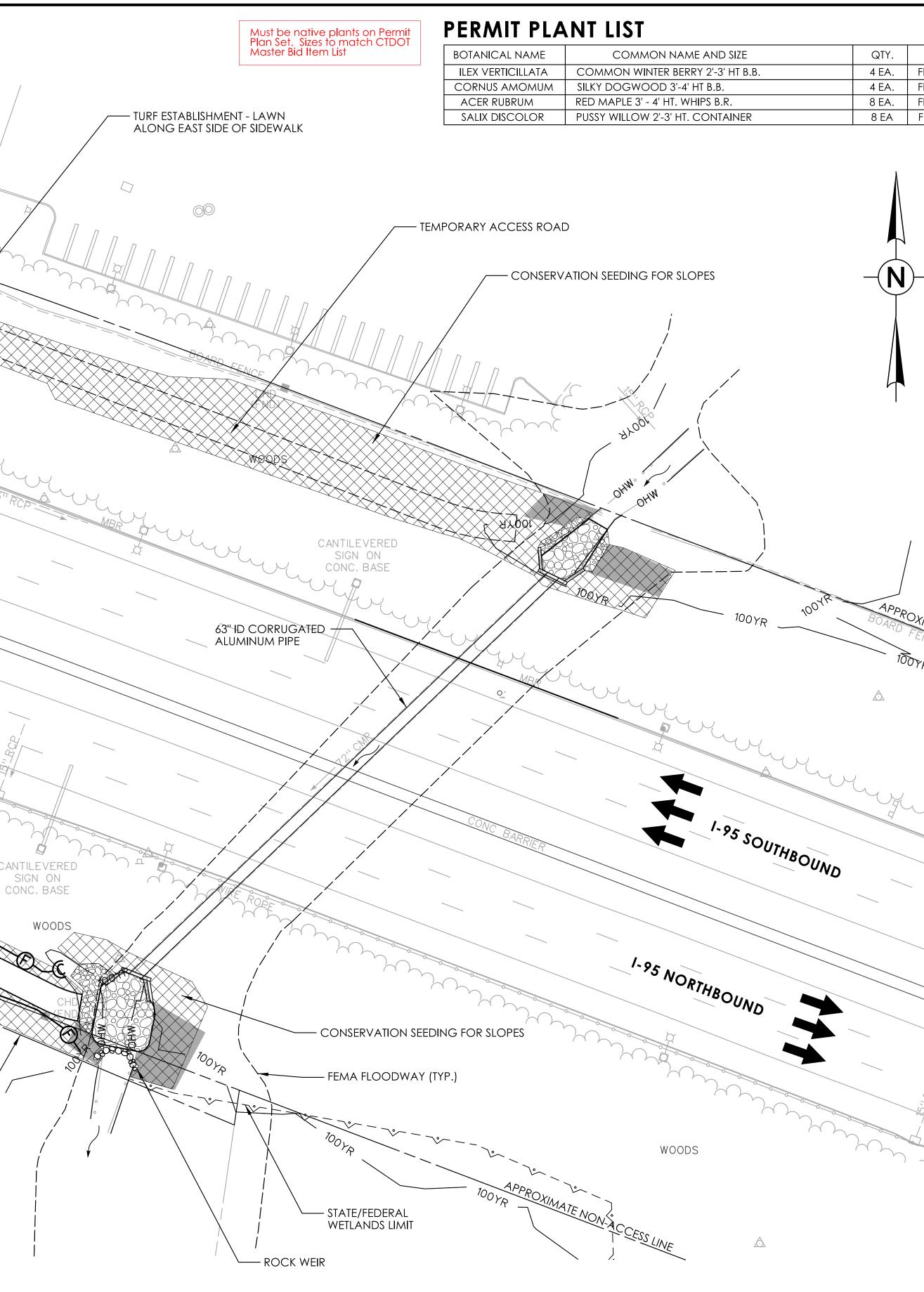
NGE

Õ

CHD

D-154

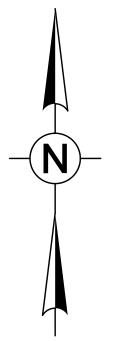
HORIZONTAL SCALE DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G LASTED SAVED BY: BRO97993 FILE NAME: C:\Users\roisema\OneDrive - State of Connecticut\Permit Plan Set - slip lining\83-268 CAD Files\references\xref_boarder_Civil.dgn **PLOTTED DATE:** 12/29/2023





QTY.	SPACING	WETLAND INDICATOR	COMMENTS
4 EA.	FIELD LOCATE	FACW	
4 EA.	FIELD LOCATE	FACW	
8 EA.	FIELD LOCATE	FAC	CONTAINERS REQUIRED, NOT BARE ROOT
8 EA	FIELD LOCATE	FACW	PLACE AROUND CULVERT ENDS AND ALONG BANKS

State design projects):

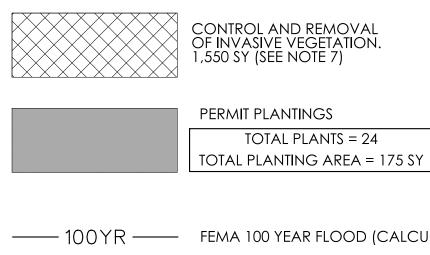


1) Designers to provide to OEP a project plan sheet that depicts the shaded area available for plantings (ie. do not include areas of riprap, area below OHW, mow areas near roadway, etc.). The amount of available planting area (in S.F.) also needs to be provided.

Note to Designers for Permit Planting Plan (in-house

OEP to provide the designers with the table of proposed plantings for the project, including spacing and indicator.

LEGEND



------ 100 YR ------ FEMA 100 YEAR FLOOD (CALCULATED) — — — — — STATE/FEDERAL WETLANDS LIMIT —————— FEMA FLOODWAY

WOODS

APPROXIMATE NON-ACCESS LINE

NOTES:

1. PLANTINGS ON THIS SHEET ARE FOR ENVIRONMENTAL PERMITTING. ANY SUBSTITUTIONS TO THE PERMIT PLANTINGS SHALL BE COORDINATED WITH THE DEPARTMENT'S OFFICE OF ENVIRONMENTAL PLANNING (OEP).

2. PROPOSED PLANTINGS TO BE FIELD LOCATED BY CTDOT OEP OR THEIR DESIGNATED REPRESENTATIVE.

3. WOOD CHIP MULCH SHALL NOT BE PLACED IN THE WETLAND AREA.

4. DISTURBED AREAS BELOW THE WETLAND LIMIT SHALL BE SEEDED WITH WETLAND GRASS ESTABLISHMENT. DISTURBED AREAS ABOVE THE WETLAND LIMIT SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES, OR OTHER SEED MIX AS SPECIFIED. ALL AREAS SHALL BE RESTORED.

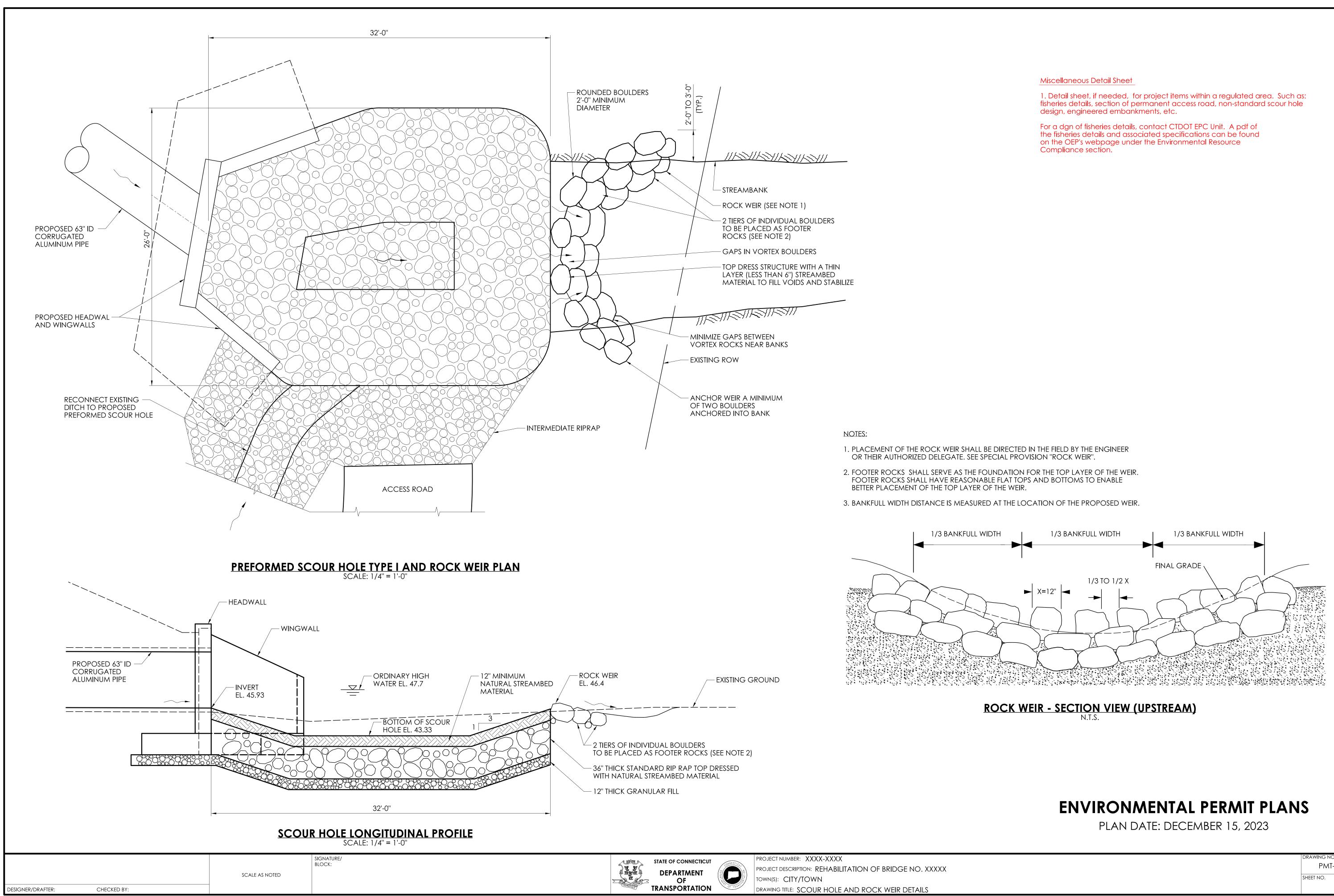
5. ALL PLANT MATERIAL SHALL BE STRAIGHT SPECIES CONFORMING TO SECTION 3 OF THE AMERICAN STANDARDS FOR NURSERY STOCK. CTDOT OEP WILL REVIEW AND APPROVE PROPOSED PLANTINGS.

6. NO PLANTINGS SHALL BE PLACED IN MOW AREA.

7. AREA TO BE TREATED FOR INVASIVES SHALL BE PROPERLY PREPARED FOR FINAL PLANTING, SEEDING, AND RESTORATION.

ENVIRONMENTAL PERMIT PLANS

PLAN DATE: DECEMBER 15, 2023



PLOTTED DATE: 12/29/2023

LASTED SAVED BY: BRO97993 FILE NAME: C:\Users\roisema\OneDrive - State of Connecticut\Permit Plan Set - slip lining\83-268 CAD Files\references\xref_boarder_Civil.dgn

PMT-08