STORMWATER POLLUTION CONTROL PLAN

Farmington Canal Heritage Trail Extension
Cheshire, CT

State Project No.: 0025-0145

Connecticut Department of Transportation-District 1
1107 Cromwell Avenue
Rocky Hill, CT 06067

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This Stormwater Pollution Control Plan (SPCP) is prepared to comply with the requirements for the General Permit for Stormwater Discharges (GPSD) from Construction Activities. Also to be considered part of the SPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges and Incidental Construction" (Form 816) including supplements thereto and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control and 2004 Stormwater Quality Manual

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1. Site Description

Site Description

The purpose of this project is to connect a shared use path known as the Farmington Canal Heritage Trail in the Town of Cheshire. The Farmington Canal Trial, when completed, will cover 84 miles from New Haven, CT to Northampton, MA. It is also part of the East Coast Greenway.

The proposed trail will consist of a 12 foot wide paved surface and require the relocation of a commercial driveway, a private driveway and the new construction of a 10 space parking lot. The path will require precast concrete boardwalk structures to cross Willow Brook in two locations and surrounding wetlands. Fencing and landscaping will be provided along the path as needed. Other amenities will include park benches, picnic tables, a restroom facility, and signs for information and safety. A crosswalk and speed table will be constructed at the intersection with the commercial driveway.

Temporary access roads with instream pipes are required to construct the boardwalk sections of trail and facilitate site access. Cofferdams and dewatering measures are required to install boardwalk abutments. Standard erosion and sedimentation controls will be utilized throughout the project.

Estimated Disturbed Area

The total area for this project site is **5.34** acres, with **5.01** acres of disturbance due to construction activities. Please see the following table for area breakdowns.

Locations	Total Acres
Impervious Shared Use Pavement Post Construction[+]	0.757
Impervious Commercial Driveway Pavement Post Construction[+]	0.558
Impervious Concrete Sidewalks Post Construction[+]	0.090
Impervious Parking Lot Pavement Post Construction[+]	0.150
Pervious Private Driveway Post Construction[+]	0.093
Restroom Facilities[+]	0.005
*Disturbed Pervious Soil in Site Post Construction[+]	3.36
Untouched Pervious Soil in Site Post Construction	0.331
	5.34

Total Disturbed Soil Area = 5.01

[+]Sum of areas equals total Disturbed Soil Area

*Disturbed pervious soil area of 3.36 acres was computed using the areas between the edge of the trail (including temporary access roads and driveways) and the sedimentary control system limits. This also contains the area beneath the raised boardwalk and the proposed rain gardens.

The total area for the precast concrete boardwalk structures post construction will be 0.302 acres. It is not included with the total acreage for the site since the structures will be raised above disturbed areas to allow for stormwater infiltration below.

Estimated Runoff Coefficient

Preconstruction
The runoff coefficient assumed for bituminous and concrete pavement is 0.9. For existing gravel driveways, a coefficient of 0.4 is used and for all vegetated areas 0.2 is assumed. The existing timber bridge is assumed to have a coefficient of 0.8.

For preconstruction the pervious area is the total site area minus the existing bituminous and concrete pavements. The pervious area will be divided between gravel and vegetated areas.

Bit./ Conc./Bridge
5.34 acres – (0.005 + 0.012+0.003) = 5.32 acres of pervious area.

Priv./ Comm./ Misc.
5.32 acres – (0.082 + 0.815 +0 .145) = 4.28 acres of vegetated pervious area

$$\frac{(4.28\text{ac.} \times 0.2) + (1.04\text{ac.} \times 0.4) + (0.017\text{ac.} \times 0.9) + (0.003\text{ac.} \times 0.8)}{4.28\text{ac.} + 1.04\text{ac.} + 0.02\text{ac.}} = \mathbf{0.24}$$

Before construction activities are started on the site, the estimated runoff coefficient is **0.24**.

Post Construction
The runoff coefficient assumed for bituminous and concrete pavement is 0.9. For all vegetated pervious areas 0.2 is assumed. A coefficient of 1.0 is estimated for the restroom facility and 0.8 for the existing timber bridge. The gravel private driveway will use a coefficient of 0.4 and the rain garden areas will use a coefficient of 0.1.

For post construction the pervious area is the total site area minus proposed impervious work (bituminous pavements, concrete pavements and the restroom facility). The pervious area will also include the new gravel private driveway, the area directly underneath the precast concrete boardwalk and the rain gardens.

Impervious:
Shared Use Trail + Comm. Driveway + Parking Lot + Conc. Sidewalks+ Restroom + Bridge

5.34 acres – (0.757 + 0.558 + 0.150 + 0.090 + 0.005 + 0.003) = 3.78 acres of pervious area

Private Gravel Driveway
3.78 – 0.093 = 3.69 acres of vegetated pervious area

Rain Garden Areas
3.69-0.028 = 3.66 acres of vegetated pervious area

$$\frac{\begin{array}{l}(0.028\text{ac.} \times 0.1) + \\ (3.66\text{ac.} \times 0.2) + \\ (0.093\text{ac.} \times 0.4) + \\ (0.003\text{ac.} \times 0.8) + \\ (1.56\text{ac.} \times 0.9)\end{array}}{0.028\text{ac.} + 3.66\text{ac.} + 0.093\text{ac.} + 0.003\text{ac.} + 1.56\text{ac.}} = \mathbf{0.41}$$

After construction activities are complete on site, the estimated runoff coefficient is **0.41**.

Runoff coefficient values were estimated by land use and surface materials from Table 6-3, 6-4 and 6-5 from the CTDOT Drainage Manual. Hydrologic soil groups B and D are prominent in the area and sloping is average.

Receiving Waters

Storm water runoff not filtered in the ground will sheet flow into the area wetlands. When the capacity is exceeded in these wetlands the excess water will flow into Willow Brook. From Willow Brook the water will discharge into the Mill River.

When ground infiltration is exceeded in the northern extents of the project, sheet flow will enter the Farmington Canal. The flow will eventually discharge into Willow Brook.

Extent of Wetlands on Site

During the course of construction, this project will have wetland and floodplain impacts. Within the wetland area that surrounds Willow Brook three (3) separate types of impacts are anticipated. These will include **Temporary Impacts** (access road construction/ removal), **Permanent Impacts** (boardwalk piers, abutments, and associated fill areas), and **Secondary Impacts** (the area directly below the raised boardwalk). All areas for these impacts can be found in the following table.

Impacts	Acreage
Temporary	0.707
Permanent	0.032
Secondary	0.215

The flood plain associated with Willow Brook will be impacted by the construction and removal of the temporary access roads. Also the entire raised boardwalk construction (piers, abutments, and precast concrete decking) will impact this area; however the boardwalk elevation will be above the 100-year flood elevation in the area. It is anticipated that **0 CY** will be **Excavated** from the area and **739 CY** will be **Fill**. By the end of construction activities it is expected to be a **739 CY Net Gain** of soil in the area due to temporary access road construction.

2. Construction Sequencing

Two (2) construction seasons will be given to the contractor to construct all phases of the project to completion. A preconstruction meeting is required to be held prior to any work commencing. Attendees at this meeting should include ConnDOT, the contractor, utility representatives, and other agents who have responsibility and authority for implementation, operation, monitoring, and maintenance of the erosion and sediment (E&S) controls

The duration of all construction activities are approximate and subject to change.

Preconstruction (*15 days prior)*:

1. Conduct a preconstruction meeting
2. Clearly mark clearing limits and identify trees that need to be saved

Construction:

1. Remove all existing railroad ties within the project limits
2. Perform clearing and grubbing for the project corridor
3. Install erosion and sedimentation control systems
4. Construct Southern access road
    a. Place geotextile material
    b. Deliver crushed stone for buildup of access road
    c. Place three (3) 24" RCP culverts in the stream
5. Subgrade for "fill" section of the trail (Sta. 112+00 to Sta. 115+50)
6. Subgrade for the trail parallel to the northern commercial driveway (Sta. 123+00 to Sta. 133+00)
7. Prepare formation of subgrade for the trail and commercial driveway
8. Divert truck traffic onto trail alignment corridor (Sta. 123+00 to Sta. 133+00)
9. Construct Northern access road
    a. Place geotextile material
    b. Deliver crushed stone for buildup of access road
    c. Place three (3) 24" RCP culverts in the stream
10. Install and dewater cofferdams
11. Install piers and boardwalk abutments
12. Install boardwalk beams and treads
13. Grade parking lot to finished subgrade
14. Pave trail up to Sta. 123+00 and continue from Sta. 133+00 to the project limits
15. Pave commercial driveway and northern parking lot
16. Divert truck traffic onto the commercial driveway
17. Construct the gate on the commercial driveway
18. Pave trail from Sta. 123+00 to Sta. 133+00
19. Relocate the private driveway
20. Construct foundations for restroom facility, picnic tables, trash receptacles and park benches
21. Install sidewalks, stamped concrete, bollards, pavement striping and signage
22. Install restroom facility, picnic tables, trash receptacles and park benches

23. Add top soil, plantings (non-wetland type) and grass areas according to Landscaping Plans
24. Remove temporary access roads (in reverse order they were installed) and reestablish area to original conditions
25. Stake out fencing locations throughout the project corridor
26. Install boardwalk railings and corridor fencing
27. Install wetland plantings
28. Remove erosion and sedimentation controls when it is determined that disturbed areas have been stabilized
29. Perform project cleanup

Note: Fisheries time of the year restrictions prohibits unconfined instream construction activities from October 1st through May 30th. This time frame allows for construction disturbances to occur during the low flow seasonal period (June 1st – September 30th).

If the construction sequencing activities create an area of disturbance between two (2) acres and five (5) acres per discharge point, the Contractor must submit to the Engineer a revised SWPCP for review and approval. The SWPCP must include locations of the temporary sedimentation trap per discharge point with a capacity to contain 134 cubic yards per acre of material as per 2002 Connecticut Guidelines for Soil Erosion and Sedimentation Control, page 5-11-25. The contractor shall provide an inspection and maintenance plan for the temporary sedimentation trap as part of the amended SWPCP.

3. Control Measures

Erosion and Sedimentation Controls

The location of the project is not within the vicinity of any aquifer protection areas. However, ConnDOT will have construction inspection personnel assigned to the project in order to oversee the Contractor's operations to ensure compliance with the provisions of the Standard Specifications. Further ConnDOT oversight is provided by the District 1 Environmental Coordinator and the Office of Environmental Planning.

The following timelines will be followed for the proposed construction activities:

- If construction activities are complete or have been temporarily halted for more than seven (7) days, stabilization activities will be implemented within three (3) days.

- Areas that remain disturbed but inactive for at least thirty (30) days shall receive temporary seeding or soil protection within seven (7) days.

- Disturbed areas that do not establish a vegetative cover within thirty (30) days of seeding shall have erosion control blankets installed. Prior to the erosion control blanket installation, the soil would be prepared with the application of lime, fertilizer, and seed.

- Areas that will be disturbed past the planting season will be covered with a long-term, non-vegetative stabilization method that will provide protection through the winter.

- Stabilization practices will be implemented as quickly as possible in accordance with the Guidelines.

- The Contractor shall stabilize disturbed areas with temporary or permanent measures as quickly as possible after the land is disturbed. Requirements for soil stabilization are detailed in Form 816 Section 1.10.03, Best Management Practices.

Soil Stabilization and Protection

Temporary Stabilization Practices

- Erosion Control Matting: On slopes steeper than 2:1 erosion control matting shall be used to stabilize the topsoil.

- Silt Fence: Silt fence shall be placed at the base of embankment

- Anti-Tracking Pads: Construction entrances (gravel anti-tracking pads) shall be constructed at truck access points to off –road route.

- Dust Control: Routine sweeping and application of dust suppression agents, including water and calcium chloride, over exposed subbase shall be completed for dust control.

Stabilization practices shall be implemented no more than three (3) days after completion, as final grades are reached, or if work has been suspended for more than seven (7) days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least thirty (30) days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an Erosion and Sedimentation Control plan for each winter season during construction operations.

The Contractor may use other controls in the project as necessary if they conform to the 2002 Connecticut Erosion and Sedimentation Guidelines and are approved by the Engineer. The contractor will be required to provide the necessary details for any erosion controls not specifically called for on the project plans.

During construction, all areas disturbed by the construction activity that have not been stabilized, structural control measures, and locations where vehicles enter or exit the site shall be inspected at least once (1) every seven (7) calendar days. These areas shall also be inspected within twenty-four (24) hours following any storm in which half (½) inch or greater of rain occurs.

Permanent Stabilization Practices

All new embankments disturbed by construction and unpaved areas that are graded or disturbed by construction will receive erosion control matting, topsoil and/or turf establishment. The Contractor may use other permanent stabilization practices approved by the Engineer and conforming to Connecticut's Erosion and Sedimentation Control Guidelines (2002).

Structural Measures

There are no proposed stormwater structures in the project corridor, as all stormwater is anticipated to sheet flow off the trail, retained and treated on site through area infiltration. There are stormwater structures (catch basins) nearby on Main Street and Cornwall Avenue, but no sheet flow is proposed to reach them. They will be protected during construction, as they are close to construction entrances. No work is planned for these structures.

Two rain gardens are proposed on the northern extents of the project limits to retain and collect stormwater flow from the proposed parking lot and sidewalks. The parking lot will utilize minimal curbing to ensure stormwater flow is directed towards the rain gardens, as one garden will be located directly to the north of the lot and the other directly to the south. Sidewalks will be graded towards the rain gardens as they traverse the surrounding area to safely direct pedestrians to and from the parking lot and the multi-use trail. The rain gardens will be composed of a 24” deep top layer of special soil preparation and a 36” deep layer of processed

aggregate wrapped in filter fabric on top of graded subsoil. Both rain gardens combined will cover 1232 square feet of plantable area. Refer to the Landscaping Plans in Appendix C for planting details.

Maintenance

All construction activities and related activities shall conform to the requirements of Section 1.10 "Environmental Compliance" of ConnDOT's Standard Specifications, Form 816. In general, all construction activities shall proceed in such a manner so as not to pollute any wetlands, watercourses, water body, and conduit carrying stormwater. The Contractor shall limit, in so far as possible, the surface area of earthen materials exposed by construction activity and immediately provide temporary and permanent pollution control to prevent soil erosion and contamination on the site. Water pollution control provisions and best management practices per Section 1.10.03 of the Standard Specifications shall be administered during construction. Control measures shall be inspected and maintained in accordance with the *2002 Guidelines* and as directed by the Engineer.

The Town of Cheshire will be responsible for all post-construction maintenance. This will include, but not be limited by landscaping, trail pavement maintenance, pavement markings, trail amenities, restroom facilities, and general tree clearing of over grown branches.

4. Dewatering Wastewaters

Dewatering Guidelines

Dewatering is proposed to occur at three (3) locations depicted on the plans. These locations are all located outside of delineated wetland areas, but only two (2) are outside of area floodways. One (1) dewatering basin is located within the floodway and is covered under the submitted DEEP IWRD. Cofferdams are planned to be installed for the excavation and construction of the abutment foundations and dewatering is necessary. Following the planned construction sequencing, dewatering is slated to continue no longer than sixty (60) days. Since dewatering is occurring in the immediate vicinity of Willow Brook, sediment filters will be used in conjunction with the pumps.

Dewatering wastewaters will be infiltrated into the ground unless otherwise directed by the Engineer. Pumps used shall not be allowed to discharge directly into a wetland or watercourse. Prior to any dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used that deviate from the original plan, and must obtain the Engineer's written approval of such methods and devices, including, but not limited to, the pumping of water into a temporary sedimentation basin, providing surge protection at the inlet or outlet of pumps, floating the intake of a pump, or any other method for minimizing and retaining the suspended solids. If the Engineer determines that a pumping operation is causing turbidity problems, the Contractor shall halt said operation until a means of controlling the turbidity is submitted by the Contractor in writing to the Engineer, approved in writing by the Engineer and implemented by the Contractor. No discharge of dewatering wastewater shall contain or cause a visible oil sheen, floating solids or foaming in the receiving water. If required, all activities are to be performed in compliance with ConnDOT Form 816.

5. Post-Construction Stormwater Management

Post-Construction Guidelines

After the project is complete, the Town of Cheshire will perform the following maintenance and restorative measures:

- Litter/debris will be removed from the site regularly.
- Mowing and maintenance of the turf areas and vegetated areas will occur as needed.
- Maintenance of Boardwalk as necessary.
- Maintenance and cleaning of Restroom facilities as necessary.
- Maintenance of area Fencing.

Post Construction Performance Standards and Control Measures

The Site is mostly pervious, with minor impervious areas that make up **0.375%** of the total site area. The underdeveloped condition of the site classifies this project as "Other Development". Accordingly, the design will ensure the site retains the full water quality volume post-construction. The following values were calculated for post-construction conditions.

Effective Impervious Cover:

$$\text{Effective Impervious Cover} = \frac{\text{Proposed Impervious Area (acre)}}{\text{Total Area of Site (acre)}} \times 100\%$$

$$= \frac{1.56 \text{ acres}}{5.34 \text{ acres}} \times 100\%$$

$$= \mathbf{29.19\%}$$

Water Quality Volume:

(Full) Water Quality Volume = **0.139 ac-ft.**

The proposed design for the site increases the impervious area, due to the construction of the multi-use trail, commercial driveway, sidewalks, parking lot and other onsite amenities. This construction enables more control over the sheet flow in the site area, as the full water quality volume will be retained onsite. Most of the flow will be directed towards local infiltration in the surrounding area including the wetland area surrounding Willow Brook. Wetland landscaping within the disturbed areas include wetland grass establishment and the use of native plantings. This will ensure long term growth and maximize infiltration into the surrounding area.

Sheet flow that is directed towards the Farmington Canal will have the chance to infiltrate into the surrounding area by the help of new turf establishment and added plantings along its perimeter. This new vegetation will be planted in maintained beds that will maximize local infiltration and dissipation of stormwater.

Proposed rain gardens in the northern end of the project site will retain about 2/3 the necessary water quality volume for the entire site. Further retention will be accomplished onsite via different landscaping measures. Introduction of an enclosed stormwater system within the project area to retain the remaining water quality volume would greatly increase disturbed soil areas; which would be counterproductive to this permit. Right of Way restrictions through the project corridor limit the implementation of large water quality installations. As function and use of the trail and its amenities are a priority, free space areas adjacent to the trail are landscaped as parks for high use by the public. Also natural topography in the area does not vary widely; existing grades do not concentrate flow within the project corridor. To correct contour grades in construction, the disturbed areas would have to greatly increase throughout the corridor. In striving to keep environmental impacts to a minimum for the project, the regrading disturbance areas follow a narrow margin in relation to the trail.

Runoff Reduction and LID Practices

The proposed parking lot will incorporate some LID methodologies by minimizing runoff into the surrounding area. Minimal curbing is proposed to be used with grading to direct flow towards the rain gardens in the northern end of the site. Two rain gardens are proposed on the northern and southern sides of the parking lot and will total 1232 square feet with a combined retention volume of 4138 cubic feet during a 10-year storm. See Appendix B for rain garden break downs and Appendix C for the drainage area map. Both rain gardens contain a 36" processed aggregate base wrapped in a layer of filter fabric over the subsoil. The addition of the filter fabric prevents sediment from clogging the processed aggregate. A 24" special soil preparation for plantings is designed to remove pollutants from the incoming stormwater flow and allow the treated water to infiltrate below. This soil will contain a higher mixture of sand, and sandy topsoil when compared to normal bedding soil. The additional sand helps increase the filtering properties of the planting bed. Selective plantings within the soil beds will help maximize pollutant removal and dissipate any high runoff velocities encountered as sheet flow enters the garden. Refer to Appendix C for planting details.

The median area between the proposed commercial driveway and the multi-use trail will be concave in grades, and utilize turf establishment to reduce runoff from the impervious pavements. Small plants and narrow trees in planting beds within the median area are spaced at low points to ensure uniform infiltration when short term ponding occurs during storm events.

Other areas throughout the length of the project will be landscaped in a variety of means to maximize full water quality volume retention within the site. The disturbed soil areas adjacent to the multi-use trail will utilize turf establishment to reduce the runoff velocity from the bituminous surface. Water that does not infiltrate into these areas will be directed towards

mulched and non-mulched planting areas, where velocities will be further reduced by dissipation and infiltration which will occur over a longer period of time. Non-mulched planting beds are to be a mix of turf establishment and necessary topsoil surrounding area plantings. Mulched areas are to be Gravel Mulch beds, as their locations are expected to encounter high foot traffic. These beds are normally placed near many hardscape and park amenity locations (picnic benches, kiosks, bathroom, etc.). Due to the expected high usage of these amenities it is not prudent to use turf establishment, as it will be short lived. The mulch itself is comprised of a local aggregate (i.e. trap rock) layer on filter fabric over graded subgrade. Infiltration rates in these areas need to be uniform with the surrounding area and utilizing aggregate as a top layer satisfies this. Longevity and low maintenance properties of this mulch also make it a better alternative for public spaces.

For disturbed wetland areas under the precast concrete boardwalks, wetland seed establishment will be used, as sheet flow is expected to reach here. The adjacent areas where the temporary construction access roads are to be used, three different types of seed mixtures will be utilized with wetland plantings to return the area to a natural wetland state. Naturally the area is a wooded, shallow wetland, with few areas of continuous moisture. Wetland seed mix will be used in all impacted delineated wetlands, New England mix will be used for the wetland limits to an elevation of 149' for flood plain establishment and Conservation mix for slopes will be used beyond the elevation of 149'. The culmination of these seed mixtures and the proposed plantings helps to bring the expected runoff into the Willow Brook as close to pre-construction values as allowable. Maintenance in these areas will be minimal, mostly due to the grasses in the floodplain, as wetland growth should be able to grow unabated.

Suspended Solids and Floatables Removal

There are no enclosed drainage systems proposed for this project. All suspended solids and floatables are expected to be removed by infiltrating through proposed landscaping and turf reestablishment in the immediate vicinity of all impervious pavement areas. Rain gardens and landscaping beds in the project site will offer more area to handle the expected sediment loadings from the areas of denser traffic.

Velocity Dissipation

No specific devices are to be used in the project site, as there are no proposed permanent outfall locations or enclosed stormwater systems. Any dissipation of velocity will occur when stormwater sheet flows from impervious pavement across established turf to the surrounding area. Further dissipation will occur in landscaped beds and mulched areas.

6. Other Controls

Waste Disposal

Construction site waste shall be properly managed and disposed of during the entire construction period. Additionally,

- A waste collection area will be designated. The selected area will minimize truck travel through the site and will not drain directly to the adjacent wetlands.
- Waste collection shall be scheduled regularly to prevent the containers from overfilling.
- Spills shall be cleaned up immediately.
- Defective containers that may cause leaks or spills will be identified through regular inspection. Any found to be defective will be repaired or replaced immediately.
- Any stockpiling of materials should be confined to the designated area as defined by the engineer.

Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete shall be conducted in a designated washout area. No surface discharge of washout wastewaters from the area will be allowed. All concrete wash-water will be directed into a container or pit such that no overflows can occur. Washout shall be conducted in an entirely self-contained system and will be clearly designed and flagged or signed where necessary. The washout area shall be located outside of any buffers and at least fifty (50) feet from any stream, wetland or other sensitive water or natural resources as determined or designated by ConnDOT Office of Environmental Planning.

The designated area shall be designed and maintained such that no overflows can occur during rainfall or after snowmelt. Containers or pits shall be inspected at least once a week to ensure structural integrity, adequate holding capacity and will be repaired prior to future use if leaks are present. The contractor shall remove hardened concrete waste when it accumulates to a height of half (½) of the container or pit or as necessary to avoid overflows. All concrete waste shall be disposed of in a manner consistent will all applicable laws, regulations and guidelines.

Anti-tracking Pads and Dust Control

Off –site vehicle tracking of sediments and the generation of dust shall be minimized.
Temporary anti-tracking pads from the active work site to the existing pavement will be installed and maintained at the locations shown on the plans (See Appendix C – Plan Set, Construction Sequence).

The contractor shall:

- Maintain the entrance in a condition which will prevent tracking and washing of sediment onto paved surfaces.
- Provide periodic top dressing with additional stone or additional length as conditions demand.
- Repair any measures used to trap sediment as needed.
- Immediately remove all sediment spilled, dropped, washed or tracked onto paved surfaces.
- Ensure roads adjacent to a construction site are left clean at the end of each day.

If the construction entrance is being properly maintained and the action of a vehicle traveling over the stone pad is not sufficient to remove the majority of the sediment, then the contractor shall either:

- Increase the length of the construction entrance,
- Modify the construction access road surface, or
- Install washing racks and associated settling area or similar devices before the vehicle enters a paved surface.

For construction activities which cause airborne particulates, wet dust suppression shall be utilized. Construction site dust will be controlled by sprinkling the ground surface with water until it is moist on an as-needed basis. The volume of water sprayed shall be such that it suppresses dust yet also prevents the runoff of water.

Post-Construction

Upon completion of construction activities and stabilization of the site, all post-construction stormwater structures, including any protected catch basins on Cornwall Ave. and West Main St., shall be cleaned of construction sediment and any remaining silt fence shall be removed prior to acceptance of the project by ConnDOT. Sediment shall be properly disposed of in accordance with all applicable laws, regulations and guidelines.

Maintaining and Storing Vehicles and Equipment

The contractor shall take measures to prevent any contamination to wetlands and watercourses while maintaining and storing construction equipment on the site. All chemical and petroleum containers stored on site shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those stored in containers of 100 gallon capacity or more, in which case double-walled tanks will suffice.

7. Inspections

Inspection Guidelines

All construction activities shall be inspected initially for Plan implementation and then weekly for Routine Inspections.

During construction, all areas disturbed by the construction activity that have not been stabilized, all erosion and sedimentation control measures, all structural control measures, soil stockpile areas, washout areas and locations where vehicles enter or exit the site shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to receiving waters at least once every seven calendar days and within twenty-four (24) hours of the end of a storm that generates a discharge.

For storms that end on a weekend, holiday or other time in which working hours will not commence within twenty-four (24) hours, an inspection is required within twenty-four (24) hours only for storms that equal or exceed half (½) inches. For lesser storms, inspection shall occur immediately upon the start of subsequent normal working hours.

Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.

Qualified personnel provided by the DOT District 1 Office shall conduct Inspections.

Items to be inspected: the following items shall be inspected as described below:

Item	Procedure
Silt Fence	Silt fence shall be inspected to ensure that the fence line is intact with no breaks or tears. The fence shall be firmly anchored to the ground. Areas where the fence is excessively sagging or where support posts are broken or uprooted shall be noted. Depth of sediment behind the fence shall be noted.
Catch Basin Protection	Protective measures shall be inspected to ensure that sediment is not entering the catch basins. Catch basin sumps shall be monitored for sediment deposition. Hay bales shall be inspected to ensure they have not clogged.
Vehicle Entrances / Exits	Locations where vehicles enter or exit the site shall be inspected for evidence of off-site tracking.

General	Construction areas and the perimeter of the site shall be inspected for any evidence of debris that may blow or wash off site or that has blown or washed off site. Construction areas shall be inspected for any spills or unsafe storage of materials that could pollute off site waters.

8. Keeping Plans Current

Revisions to Stormwater Pollution Control Plans:

ConnDOT shall amend the Plan if the actions required by the Plan fail to prevent pollution or otherwise comply with provisions of the General Permit. The Plan shall also be amended whenever there is a change in contractors or sub-contractors at the site. If the results of the inspections require modifications to the Stormwater Pollution Control Plan, the plans shall be revised as soon as practicable after the inspection. Such modifications shall provide for a timely implementation of any changes to non-engineered controls on the site within twenty-four (24) hours and implementation of any changes to the plan within 3 (three) calendar days following the inspection. For Engineered measures, corrective actions shall be implemented on site within 7 (seven) days and incorporated into a revised Plan within 10 (ten) days of the date of inspection

In no event shall the requirements to keep the Plan current or update a Plan, relieve the permittee and their contactor(s) of the responsibility to properly implement any actions required to protect the waters of the State and to comply with all conditions of the permit.

9. Monitoring Requirements

A written report summarizing the scope of the inspection, the name(s) and qualifications of inspection personnel, the date and time of the inspection, major observations relative to the implementation of the Pollution Control Plan, and actions taken shall be completed within twenty-four (24) hours of the inspection. This report shall be retained as part of the Stormwater Pollution Control Plan for at least five (5) years after the date of the inspection.

Turbidity monitoring shall be conducted at the one (1) outlet location depicted on the Plans utilizing a procedure consistent with 40 CFR Part 136(http://www.epa.gov/region9/qa/pdfs/40cfr136_03.pdf) and may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings. The first sample shall be taken within the first hour of stormwater discharge from the site and at least three (3) grab samples shall be taken during a storm event and shall be representative of the flow and characteristics of the discharge. Sampling shall be conducted at least monthly when there is a discharge of stormwater from the site while construction activity is ongoing, until final stabilization of the drainage area associated with each outfall is achieved.

Samples shall be taken during normal working hours, which for this project shall be defined as Monday through Friday, 7AM to 5PM. If a storm continues past working hours, sampling shall resume the following morning or the morning of the next working day following a weekend or Holiday, as long as the discharge continues. Sampling may be temporarily suspended when conditions exist that may reasonably pose a threat to the safety of the person taking the sample.

Within thirty (30) days following the end of each month, the stormwater sampling results shall be submitted on the Stormwater Monitoring Report (SMR) and submit in accordance with Net DMR. If there is no stormwater discharge during a month, sampling is not required, however, SMR's indicating "no discharge" shall still be submitted as required.

10. Contractors

General

This section shall identify all Contractors and Subcontractors who will perform on site actions which may reasonably be expected to cause or have the potential to cause pollution of the waters of the State.

Certification Statement

All contractors and subcontractors must sign the attached statement. All certification will be included in the Stormwater Pollution Control Plan.

State Project No. 25-145

Farmington Canal Heritage Trail Extension
Cheshire, CT

"I certify under penalty of law that I have read and understand the terms and conditions of the general permit for the discharge of stormwater associated with construction activity. I understand that as Contractor on the project, I am covered by this general permit, and must comply with the terms and conditions of this permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for this project."

GENERAL CONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

SUBCONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

General:

This Stormwater Pollution Control Plan (SPCP) is prepared to comply with the requirements for the General Permit for Stormwater Discharges (GPSD) from Construction Activities. Also to be considered part of the SPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges and Incidental Construction" (Form 816) including supplements thereto and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control and 2004 Stormwater Quality Manual.

List of applicable Figures / Plans:

Appendix A - Maps

- USGS Quadrangle Map
- Outfall Drainage Map
- Rain Garden Drainage Map

Appendix B – Drainage Calculations

- Water Quality Computations
- Rain Garden Calculations

Appendix C – Plan Sheets

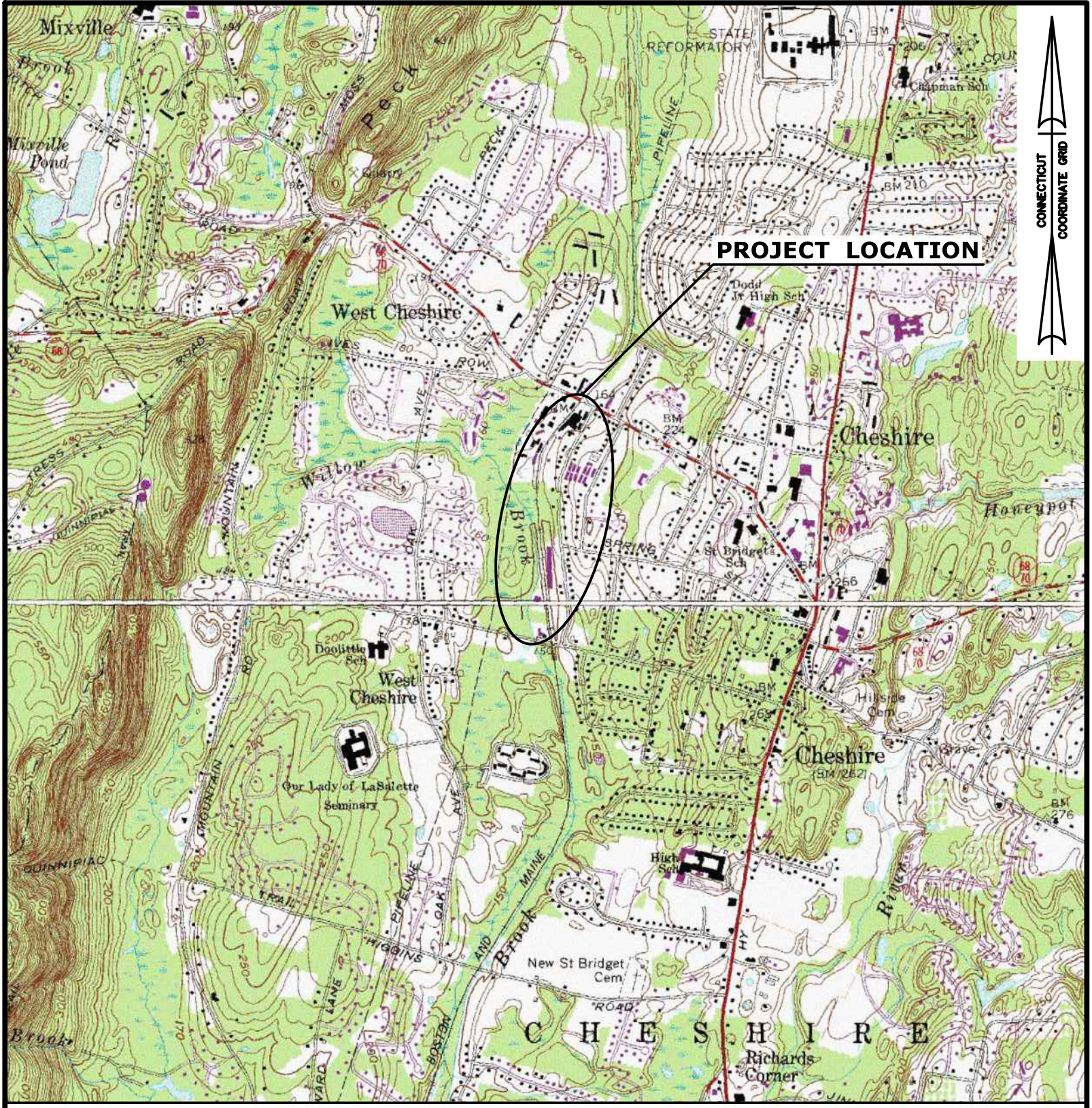
- Areas of Disturbance – Pre/Post Construction
- Plan Set

Appendix D – Stormwater Monitoring Report Form

Appendix E – Notice of Termination Form

APPENDIX A

Maps



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE NO.
65 SOUTHINGTON
80 MOUNT CARMEL

STAFFORD SPRINGS
CONN.
41072-H3-TF-024
1983
REVISED
DMA 6567 IV NE- SERIES V816

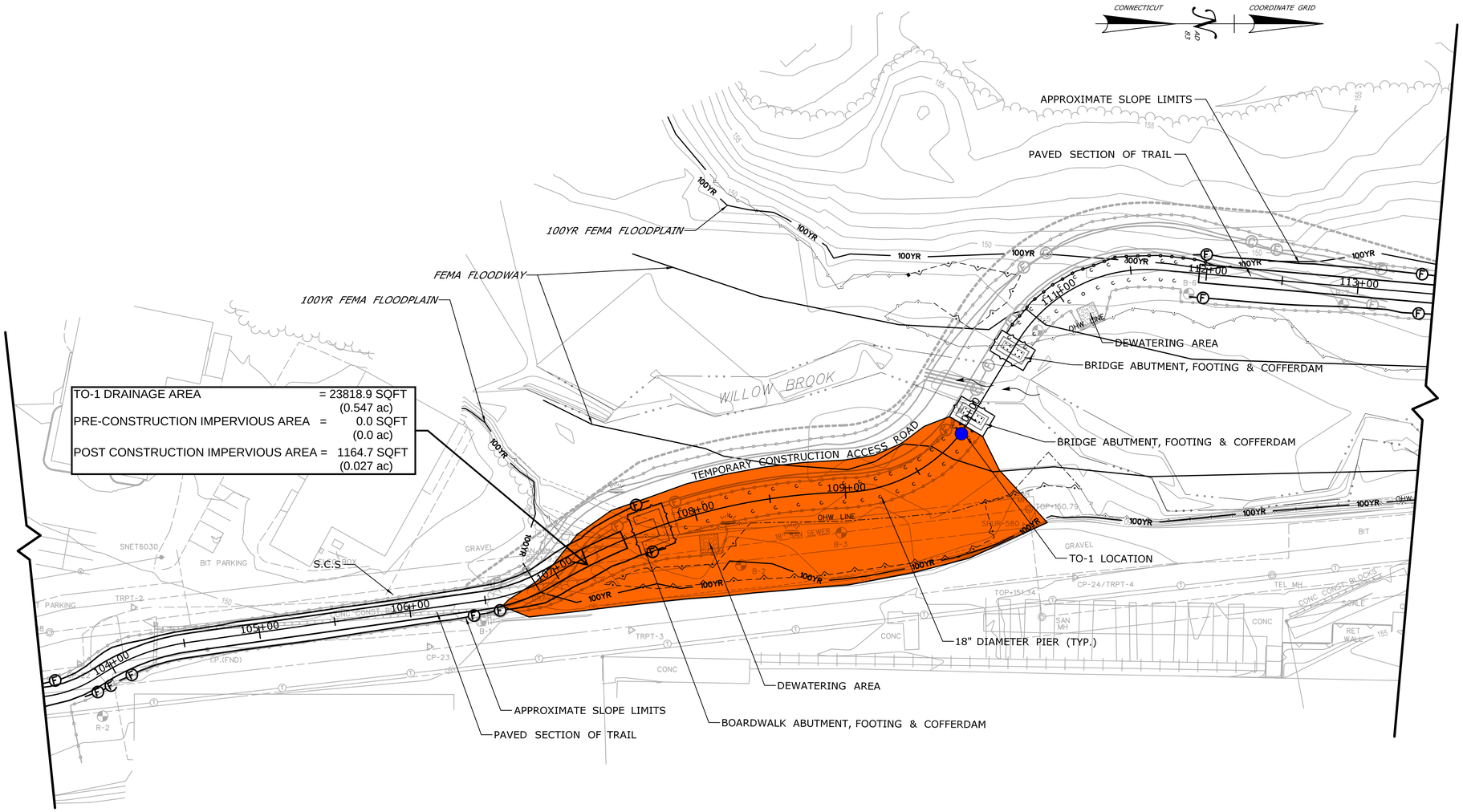
STATE PROJECT NO.:
24-145
COUNTY: NEW HAVEN
CITY/TOWN: CHESHIRE

APPLICATION BY:
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
FARMINGTON CANAL
HERITAGE TRAIL ENTENSION

OFFICE OF ENGINEERING

DATE:
NOVEMBER
2015

ATTACHMENT (A)



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/1/2016

DESIGNER/DRAFTER: NAI / AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TO1 Drainage Map.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE:
TO-1 DRAINAGE AREA

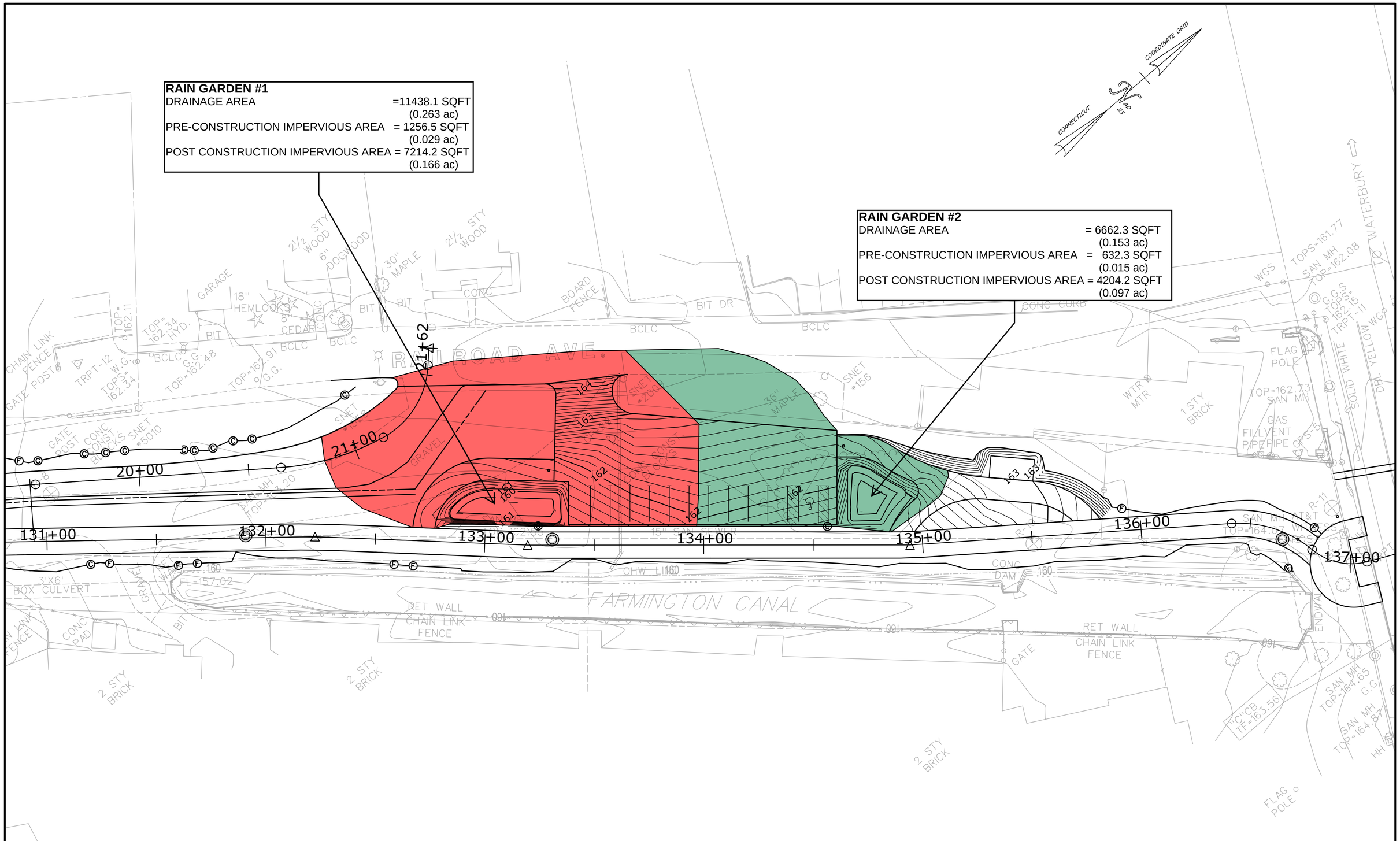
PROJECT NO. **25-145**

DRAWING NO.

SHEET NO.

RAIN GARDEN #1
DRAINAGE AREA =11438.1 SQFT (0.263 ac)
PRE-CONSTRUCTION IMPERVIOUS AREA = 1256.5 SQFT (0.029 ac)
POST CONSTRUCTION IMPERVIOUS AREA = 7214.2 SQFT (0.166 ac)

RAIN GARDEN #2
DRAINAGE AREA = 6662.3 SQFT (0.153 ac)
PRE-CONSTRUCTION IMPERVIOUS AREA = 632.3 SQFT (0.015 ac)
POST CONSTRUCTION IMPERVIOUS AREA = 4204.2 SQFT (0.097 ac)



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/1/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
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SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Rain Garden Drainage.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE:
RAIN GARDEN
DRAINAGE PLAN

PROJECT NO. 25-145
DRAWING NO.
SHEET NO.

APPENDIX B

Drainage Calculations

Water Quality Volume (WQV)

PROJECT	25-145	PREPARED BY	AJC
DATE	7/6/2016	CHECKED BY	VS
SUBJECT	Farmington Canal Heritage Trail Extension		

This project was determined to be "Other Development" due to the the < 40% designed impervious area for the site. Full WQV is required to be retained and treated on site.

TOTAL SITE COMPOSITION (ACRE)

Impervious Area	Pervious Area
1.56	3.78

WATER QUALITY VOLUME (WQV) CALCULATION

Area (A) =	5.34	acres
Area (A) =	0.00835	square miles
Design Precipitation (P) =	1	inch
% Impervious Cover (I) =	29.19	
Volumetric Runoff Coefficient (R) =	0.313	

WQV =	**(P x R x 1) / 12**	**ac-ft**
=	**0.139**	**ac-ft**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

subject: Project No. 025-145
Farmington Canal Heritage Trail
Town of Cheshire
Rain Garden Evaluation

m e m o r a n d u m

date: March 23, 2016

to: Mr. William W. Britnell
Transportation Principal Engineer
Bureau of Engineering and Construction

from: Michael E. Masayda
Transportation Principal Engineer
Bureau of Engineering and Construction

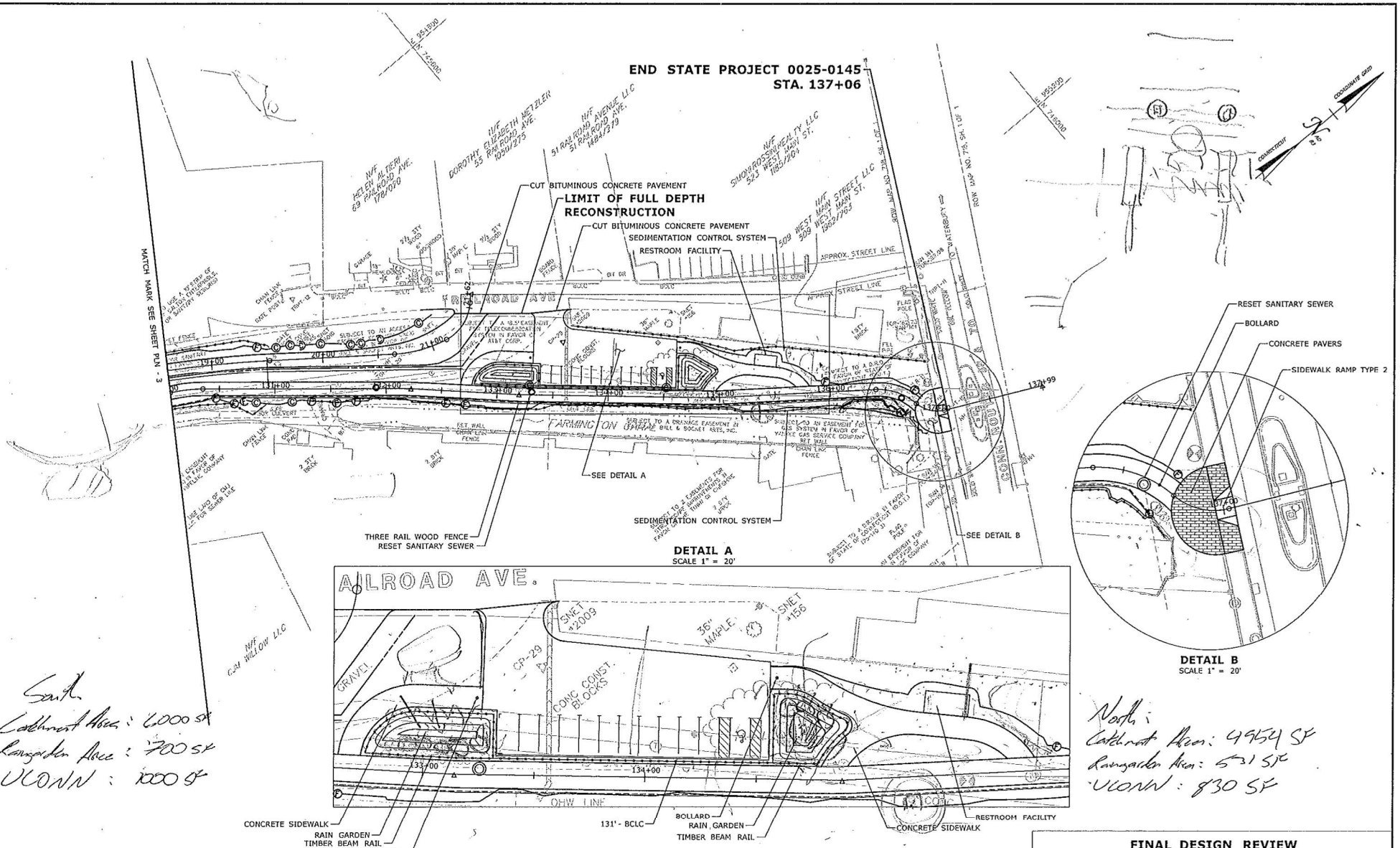
The Hydraulics and Drainage Section has evaluated the proposed rain gardens in the vicinity of the parking area on Railroad Ave. The peak flow and storage volume required for each rain garden is provided in the table below. Although various frequency events are presented, it is recommended that the 10-year event be used for design purposes.

		Frequency Event			
		1-Year	2-Year	5-Year	10-Year
Rain Garden 1 Catchment Area = 6000 ft^2	Peak Flow (cfs)	0.42	0.52	0.68	0.81
	Volume (ft^3)	1,133	1,437	1,873	2,265
Rain Garden 2 Catchment Area = 4954 ft^2	Peak Flow (cfs)	0.34	0.43	0.56	0.67
	Volume (ft^3)	958	1,176	1,568	1,873

Sonya Wood

cc: Theodore H. Nezames – Michael E. Masayda – Chong Lung Chow – Drew Colburn
Scott Bushee – Vitalij Staroverov – Nicholas Ivanoff

X:\025_0145_2007\Hydro\Review_Design\Rain Gardens\Rain_Garden_Evaluation.doc



South:
Catchment Area: 6000 SF
Rangarden Area: 700 SF
UCONN: 1000 SF

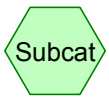
North:
Catchment Area: 4954 SF
Rangarden Area: 531 SF
UCONN: 830 SF

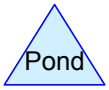
FINAL DESIGN REVIEW

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE DRAWINGS IS BASED ON AVAILABLE DATA. IT IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES	DESIGNED/DRAFTED: NAI CHECKED BY: SCALE IN FEET	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION	TOWN: TOWN OF CHESHIRE DRAWING TITLE:	PROJECT NO. 25-145 PLN-04

Rain Garden 1

Rain Garden 2





Routing Diagram for Rain_Garden
Prepared by Department of Transportation, Printed 7/1/2016

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.252	98	(1S, 2S)
0.252	**98**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.252	Other	1S, 2S
0.252		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	0.252	0.252		1S, 2S
0.000	**0.000**	**0.000**	**0.000**	**0.252**	**0.252**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.02 hrs, 751 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Rain Garden 1 Runoff Area=0.138 ac 100.00% Impervious Runoff Depth>2.29"
Tc=5.0 min CN=98 Runoff=0.42 cfs 0.026 af

Subcatchment2S: Rain Garden 2 Runoff Area=0.114 ac 100.00% Impervious Runoff Depth>2.29"
Tc=5.0 min CN=98 Runoff=0.34 cfs 0.022 af

Total Runoff Area = 0.252 ac Runoff Volume = 0.048 af Average Runoff Depth = 2.29"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.252 ac

Summary for Subcatchment 1S: Rain Garden 1

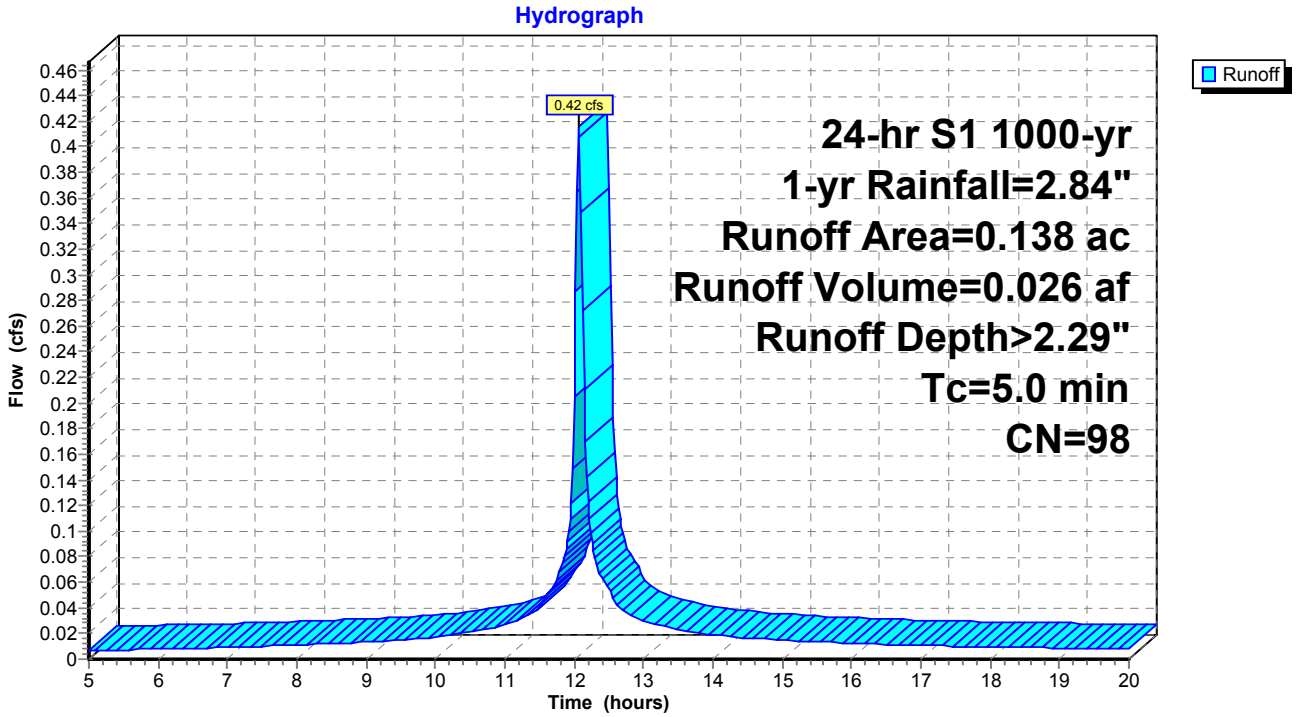
Runoff = 0.42 cfs @ 12.07 hrs, Volume= 0.026 af, Depth> 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 1-yr Rainfall=2.84"

	Area (ac)	CN	Description
*	0.138	98	
	0.138		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 1S: Rain Garden 1



Summary for Subcatchment 2S: Rain Garden 2

Runoff = 0.34 cfs @ 12.07 hrs, Volume= 0.022 af, Depth> 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 1-yr Rainfall=2.84"

	Area (ac)	CN	Description
*	0.114	98	
	0.114		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
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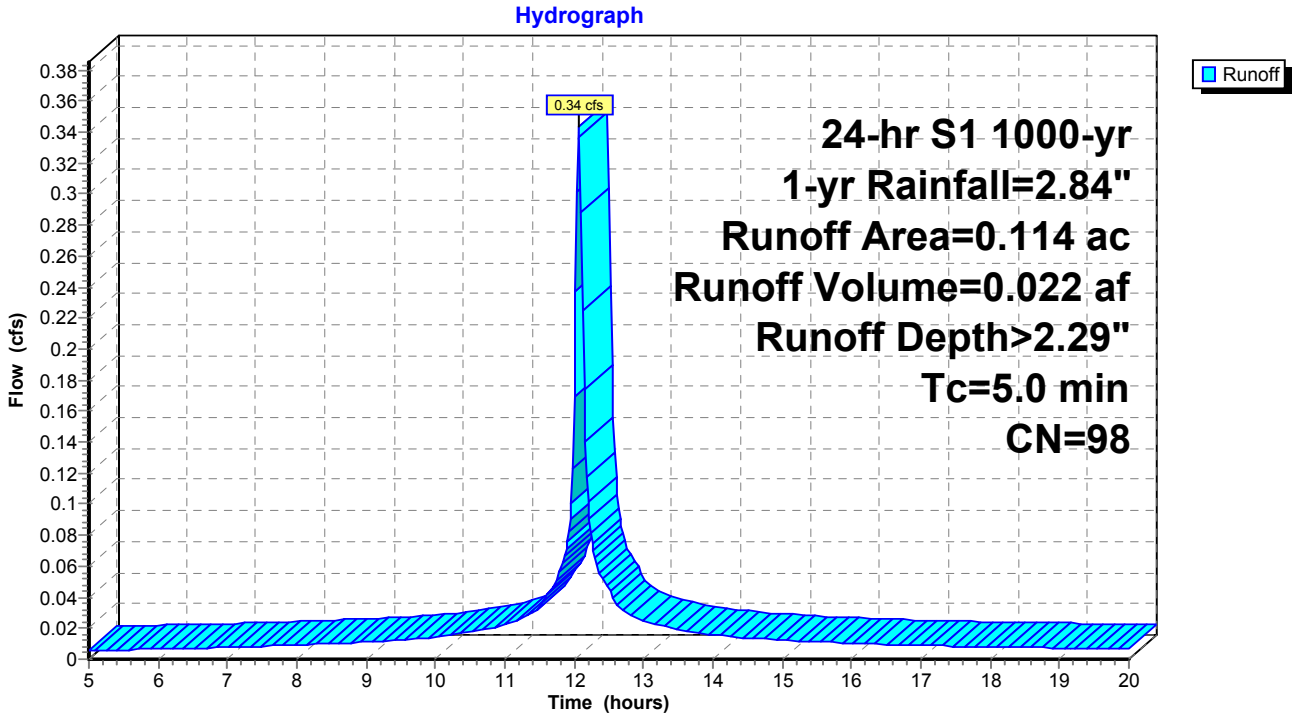
Subcatchment 2S: Rain Garden 2



Time span=5.00-20.00 hrs, dt=0.02 hrs, 751 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Rain Garden 1 Runoff Area=0.138 ac 100.00% Impervious Runoff Depth>2.85"
Tc=5.0 min CN=98 Runoff=0.52 cfs 0.033 af

Subcatchment2S: Rain Garden 2 Runoff Area=0.114 ac 100.00% Impervious Runoff Depth>2.85"
Tc=5.0 min CN=98 Runoff=0.43 cfs 0.027 af

Total Runoff Area = 0.252 ac Runoff Volume = 0.060 af Average Runoff Depth = 2.85"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.252 ac

Summary for Subcatchment 1S: Rain Garden 1

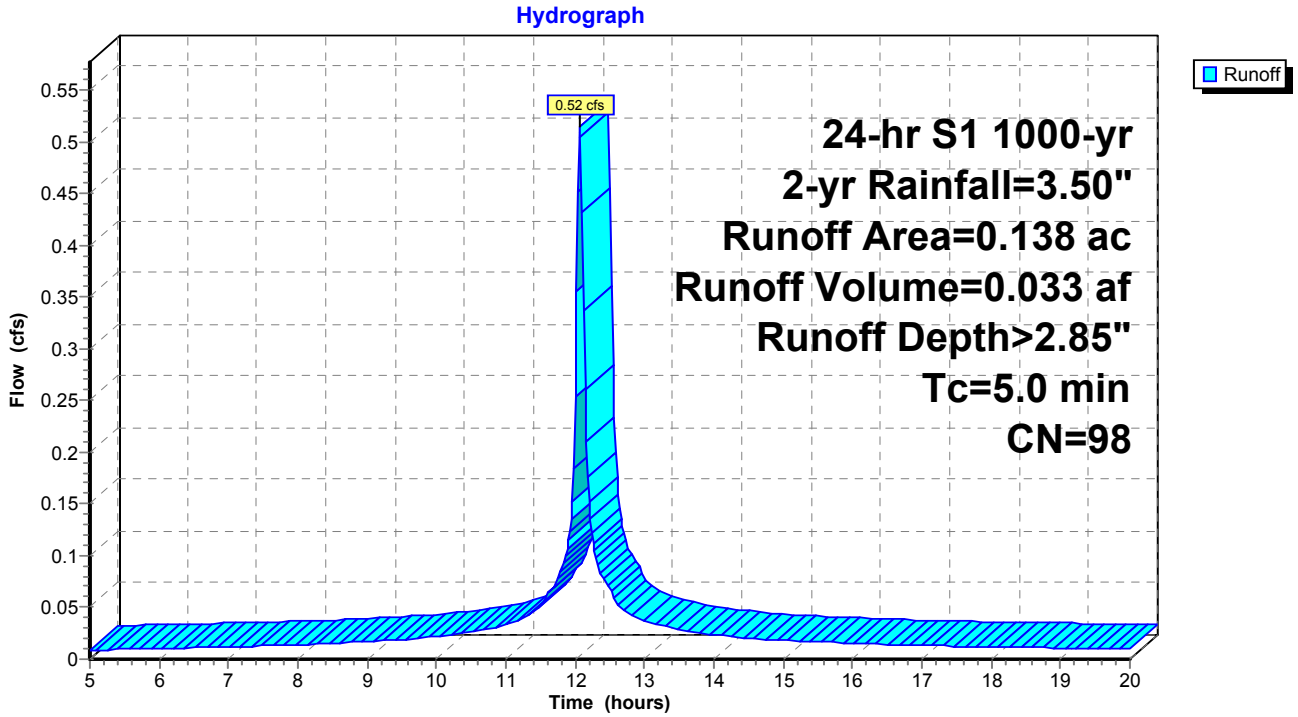
Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.033 af, Depth> 2.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 2-yr Rainfall=3.50"

	Area (ac)	CN	Description
*	0.138	98	
	0.138		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 1S: Rain Garden 1



Summary for Subcatchment 2S: Rain Garden 2

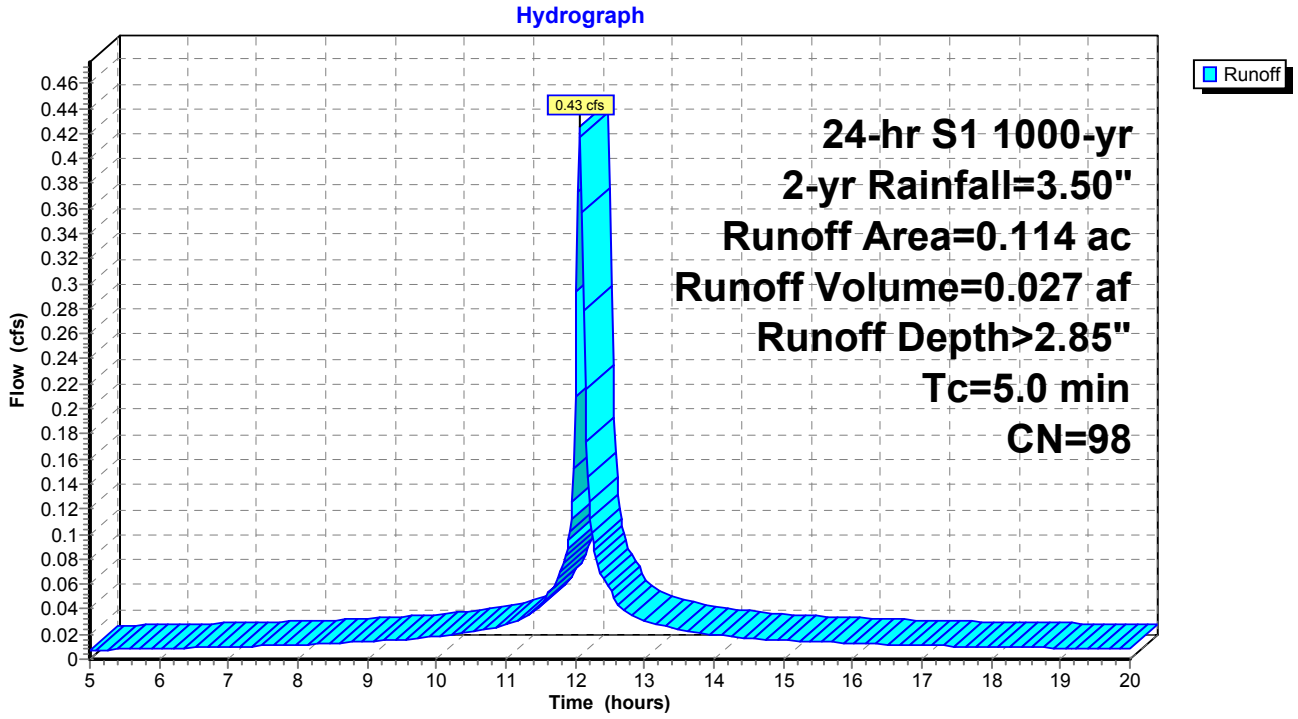
Runoff = 0.43 cfs @ 12.07 hrs, Volume= 0.027 af, Depth> 2.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 2-yr Rainfall=3.50"

	Area (ac)	CN	Description
*	0.114	98	
	0.114		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 2S: Rain Garden 2



Time span=5.00-20.00 hrs, dt=0.02 hrs, 751 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Rain Garden 1 Runoff Area=0.138 ac 100.00% Impervious Runoff Depth>3.77"
Tc=5.0 min CN=98 Runoff=0.68 cfs 0.043 af

Subcatchment2S: Rain Garden 2 Runoff Area=0.114 ac 100.00% Impervious Runoff Depth>3.77"
Tc=5.0 min CN=98 Runoff=0.56 cfs 0.036 af

Total Runoff Area = 0.252 ac Runoff Volume = 0.079 af Average Runoff Depth = 3.77"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.252 ac

Summary for Subcatchment 1S: Rain Garden 1

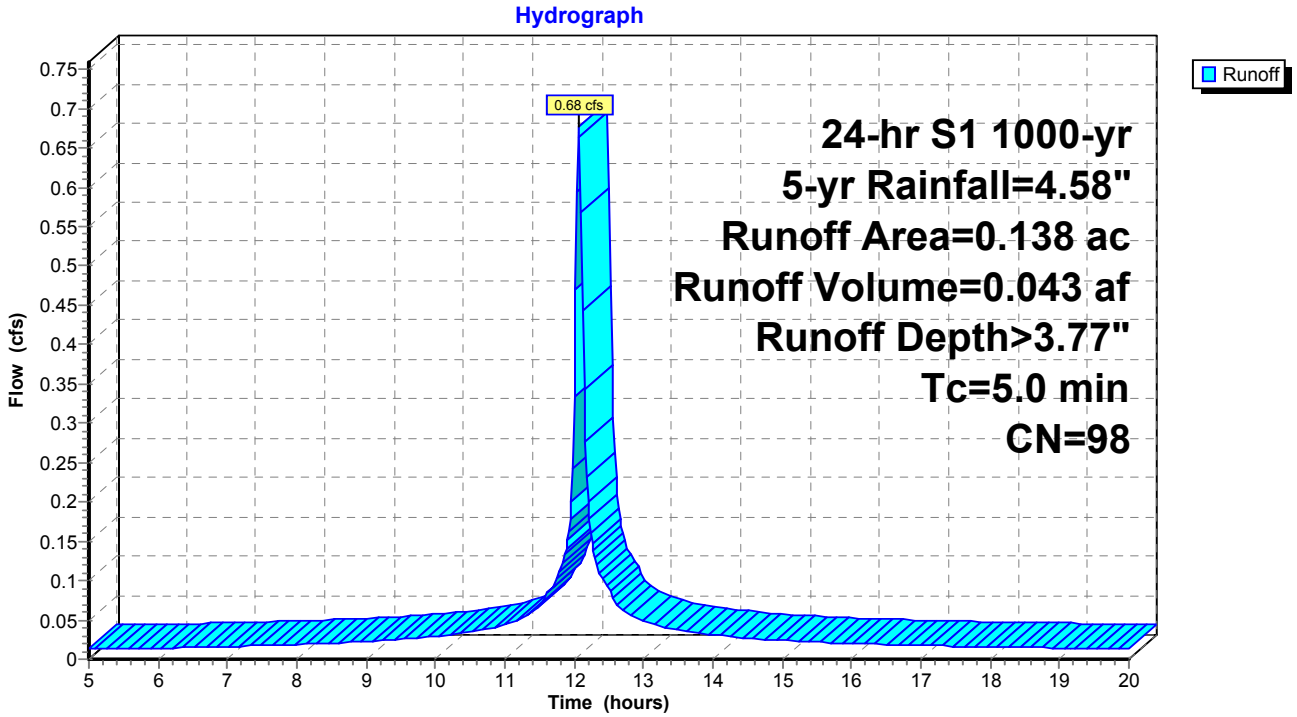
Runoff = 0.68 cfs @ 12.07 hrs, Volume= 0.043 af, Depth> 3.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 5-yr Rainfall=4.58"

	Area (ac)	CN	Description
*	0.138	98	
	0.138		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 1S: Rain Garden 1



Summary for Subcatchment 2S: Rain Garden 2

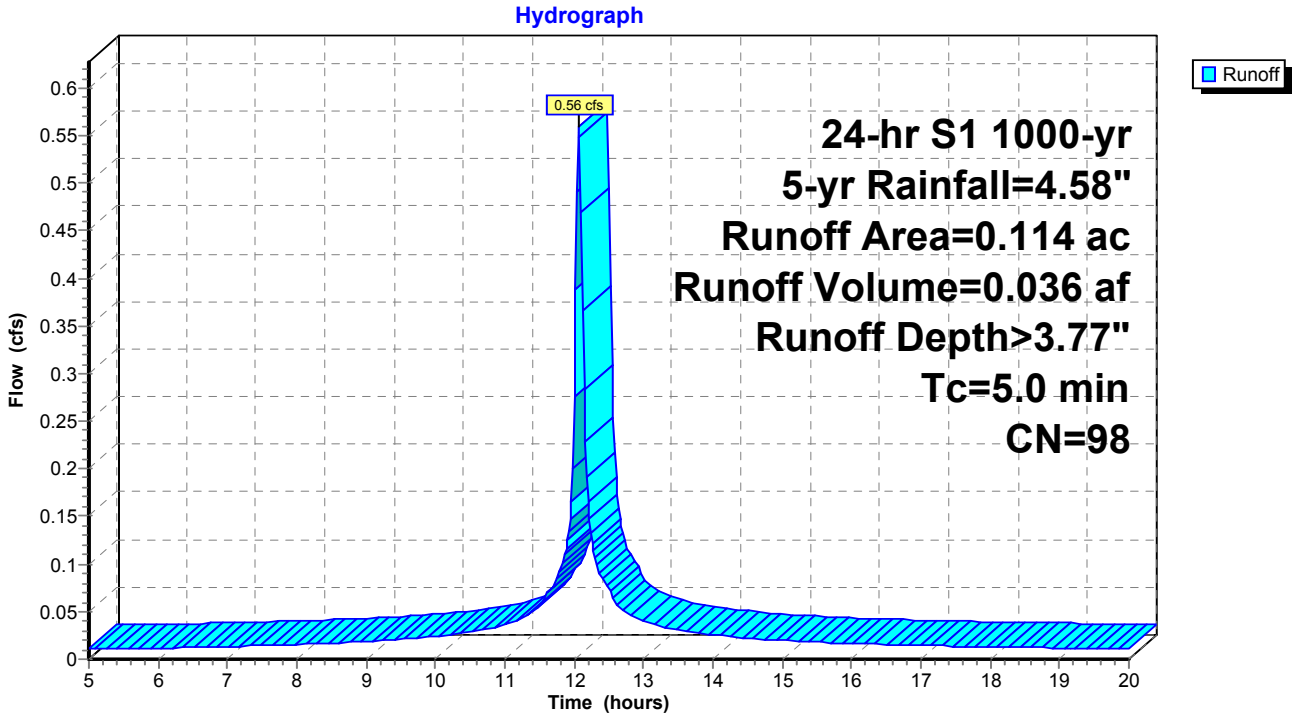
Runoff = 0.56 cfs @ 12.07 hrs, Volume= 0.036 af, Depth> 3.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 5-yr Rainfall=4.58"

	Area (ac)	CN	Description
*	0.114	98	
	0.114		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 2S: Rain Garden 2



Time span=5.00-20.00 hrs, dt=0.02 hrs, 751 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Rain Garden 1 Runoff Area=0.138 ac 100.00% Impervious Runoff Depth>4.52"
Tc=5.0 min CN=98 Runoff=0.81 cfs 0.052 af

Subcatchment2S: Rain Garden 2 Runoff Area=0.114 ac 100.00% Impervious Runoff Depth>4.52"
Tc=5.0 min CN=98 Runoff=0.67 cfs 0.043 af

Total Runoff Area = 0.252 ac Runoff Volume = 0.095 af Average Runoff Depth = 4.52"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.252 ac

Summary for Subcatchment 1S: Rain Garden 1

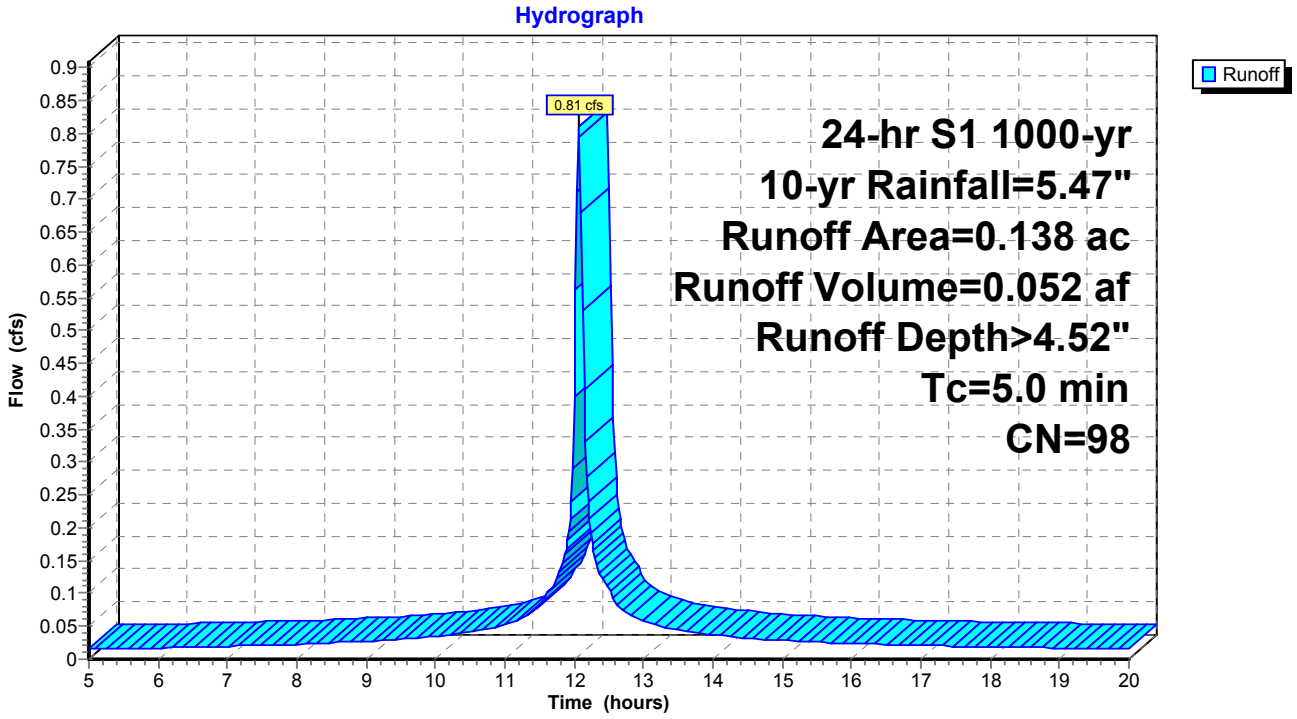
Runoff = 0.81 cfs @ 12.07 hrs, Volume= 0.052 af, Depth> 4.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 10-yr Rainfall=5.47"

	Area (ac)	CN	Description
*	0.138	98	
	0.138		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 1S: Rain Garden 1



Summary for Subcatchment 2S: Rain Garden 2

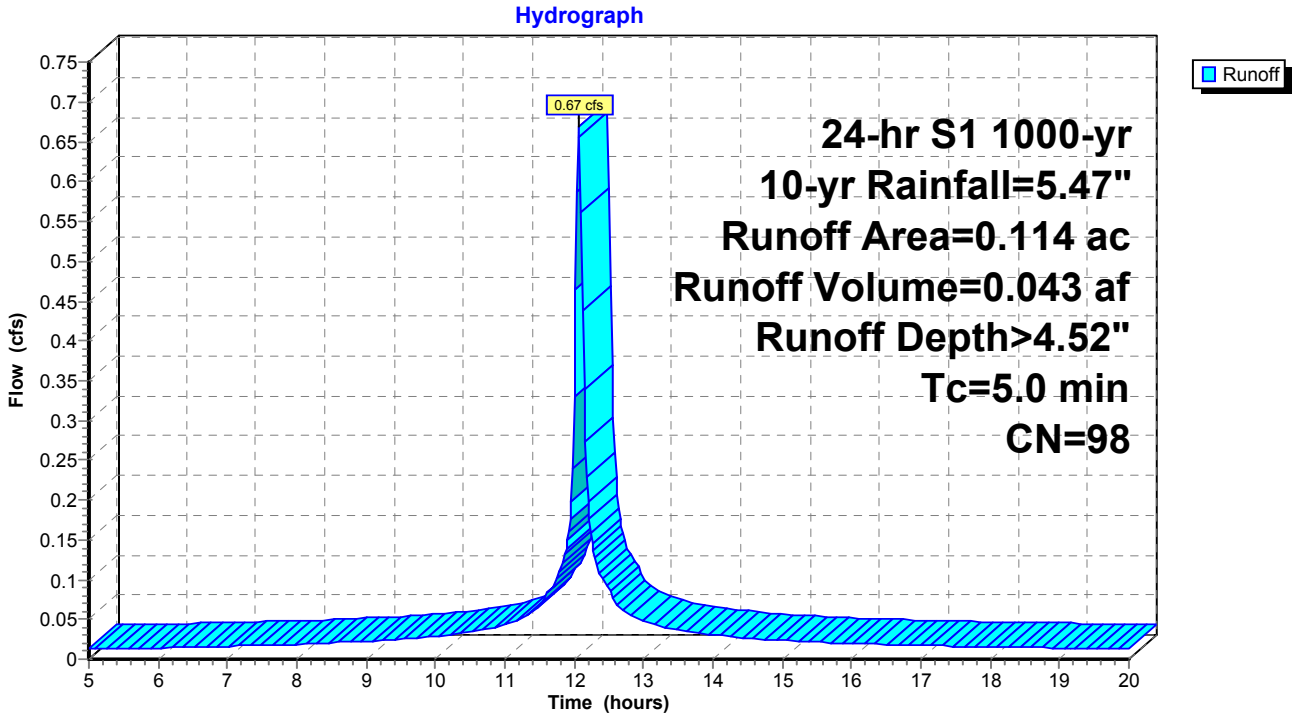
Runoff = 0.67 cfs @ 12.07 hrs, Volume= 0.043 af, Depth> 4.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs
24-hr S1 1000-yr 10-yr Rainfall=5.47"

	Area (ac)	CN	Description
*	0.114	98	
	0.114		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry,**

Subcatchment 2S: Rain Garden 2



APPENDIX C

Plan Sheets

	AREA TYPE	C	SQFT	ACRE
	CONCRETE SIDEWALK	0.90	156.1	0.004
	BITUMINOUS PAVEMENT	0.90	196.8	0.005
	GRAVEL	0.40	6300.3	0.145
	WOODED PERVIOUS	0.20	33002.4	0.780

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater_Areas_AOD-1.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE:
AREAS OF DISTURBANCE PRECONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-1

SHEET NO.

CONNECTICUT

COORDINATE GRID

PROJECT SITE AREA 76584.8 Sq. '

MATCH MARK - SEE DRAWING NO. AOD-1

MATCH MARK - SEE DRAWING NO. AOD-3

	AREA TYPE	C	SQFT	ACRE
	EXISTING BRIDGE	0.80	124.9	0.003
	GRAVEL	0.40	3580.3	0.082
	WOODED PERVIOUS	0.20	72879.6	1.673

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater_Areas_AOD-2.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

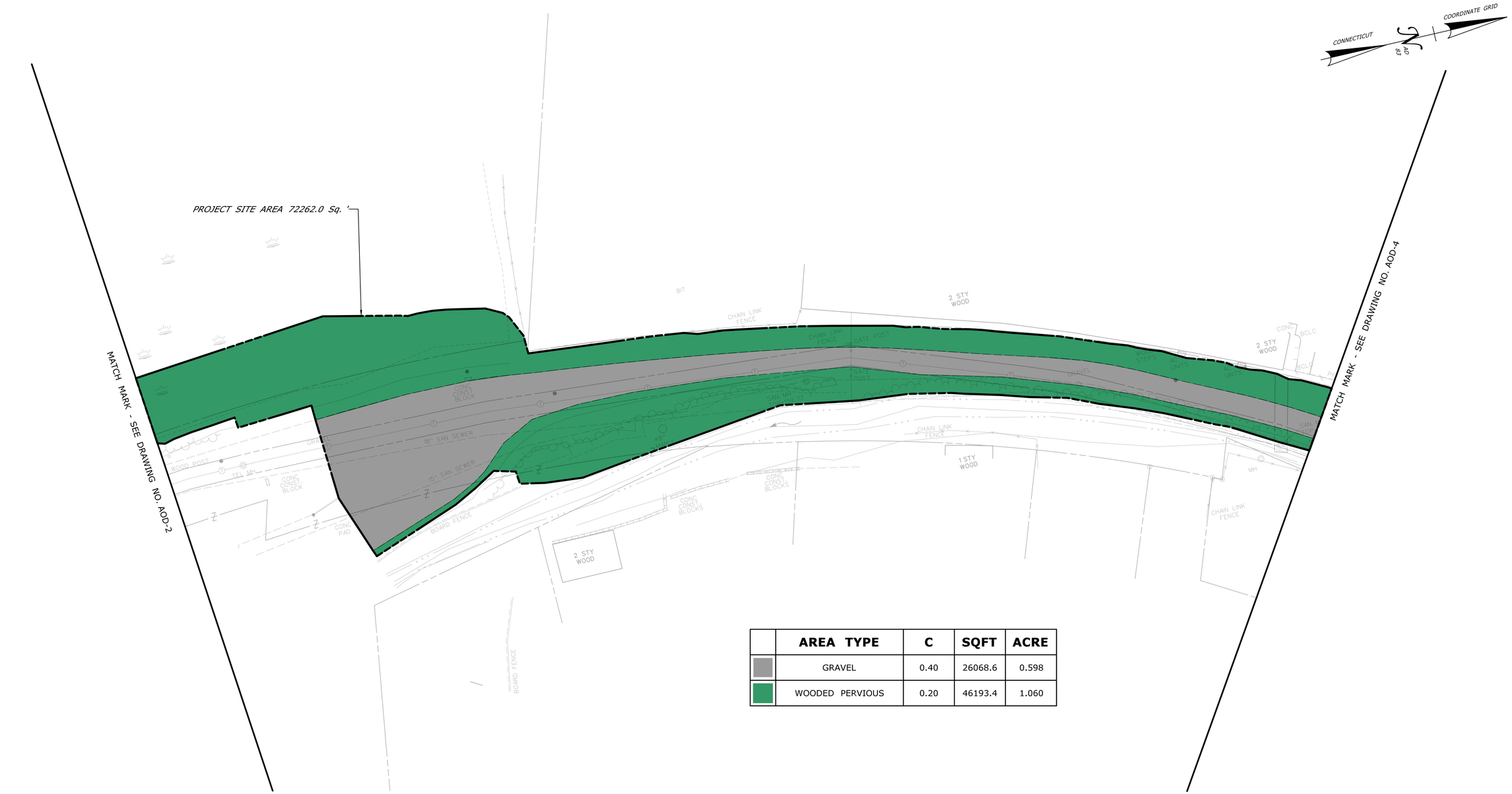
TOWN: CHESHIRE

DRAWING TITLE: AREAS OF DISTURBANCE PRECONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-2

SHEET NO.



	AREA TYPE	C	SQFT	ACRE
	GRAVEL	0.40	26068.6	0.598
	WOODED PERVIOUS	0.20	46193.4	1.060

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater_Areas_AOD-3.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE:
AREAS OF DISTURBANCE PRECONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-3

SHEET NO.

	AREA TYPE	C	SQFT	ACRE
	CONCRETE SIDEWALK	0.90	347.7	0.008
	GRAVEL	0.40	9445.2	0.217
	WOODED PERVIOUS	0.20	34554.5	0.793

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/ AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater..Areas..AOD-4.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

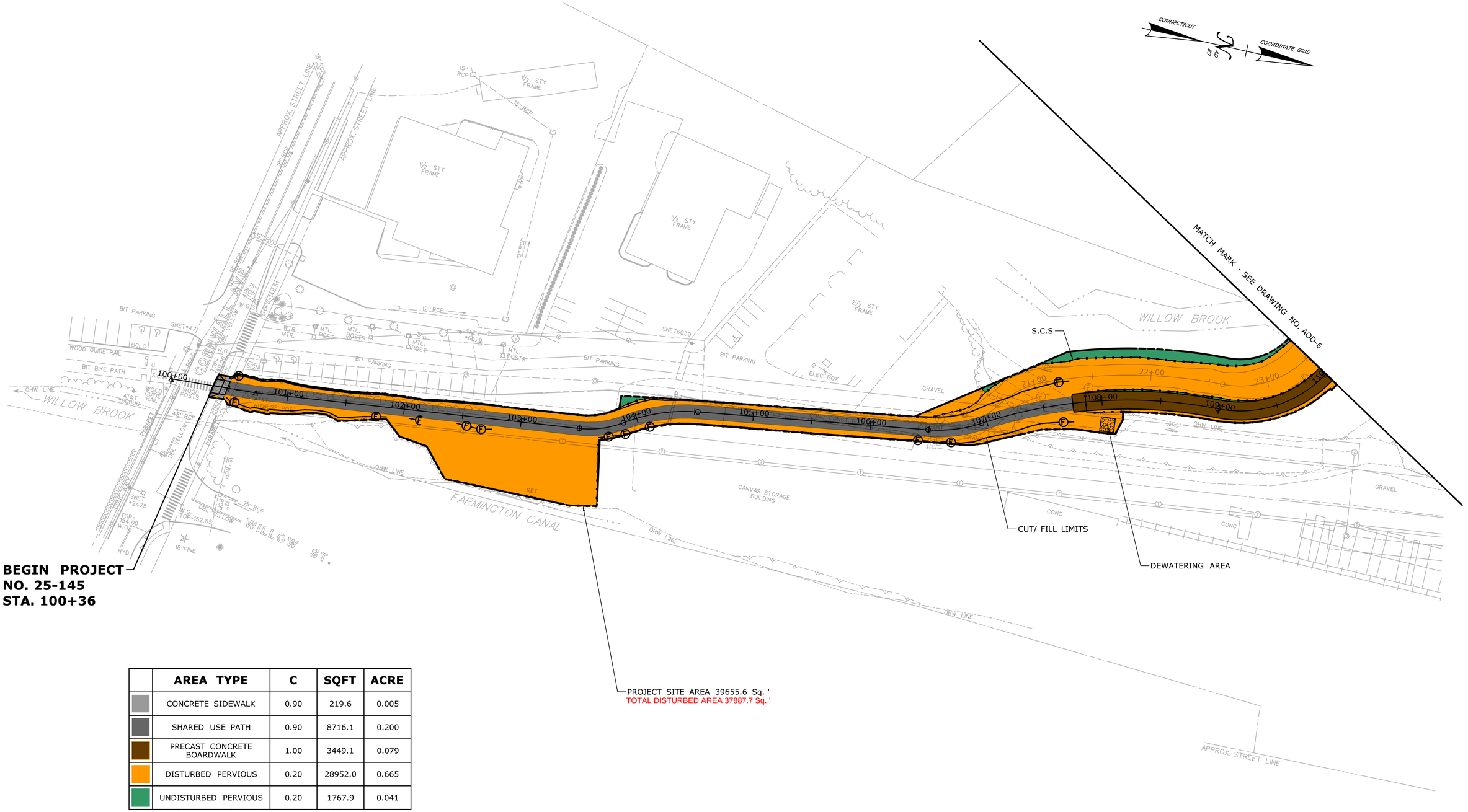
TOWN: CHESHIRE

DRAWING TITLE:
AREAS OF DISTURBANCE PRECONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-4

SHEET NO.



	AREA TYPE	C	SQFT	ACRE
	CONCRETE SIDEWALK	0.90	219.6	0.005
	SHARED USE PATH	0.90	8716.1	0.200
	PRECAST CONCRETE BOARDWALK	1.00	3449.1	0.079
	DISTURBED PERVIOUS	0.20	28952.0	0.665
	UNDISTURBED PERVIOUS	0.20	1767.9	0.041

NOTE: PRECAST CONCRETE BOARDWALK AREAS ARE INCLUDED IN DISTURBED PERVIOUS AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater..Areas..AOD-5.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

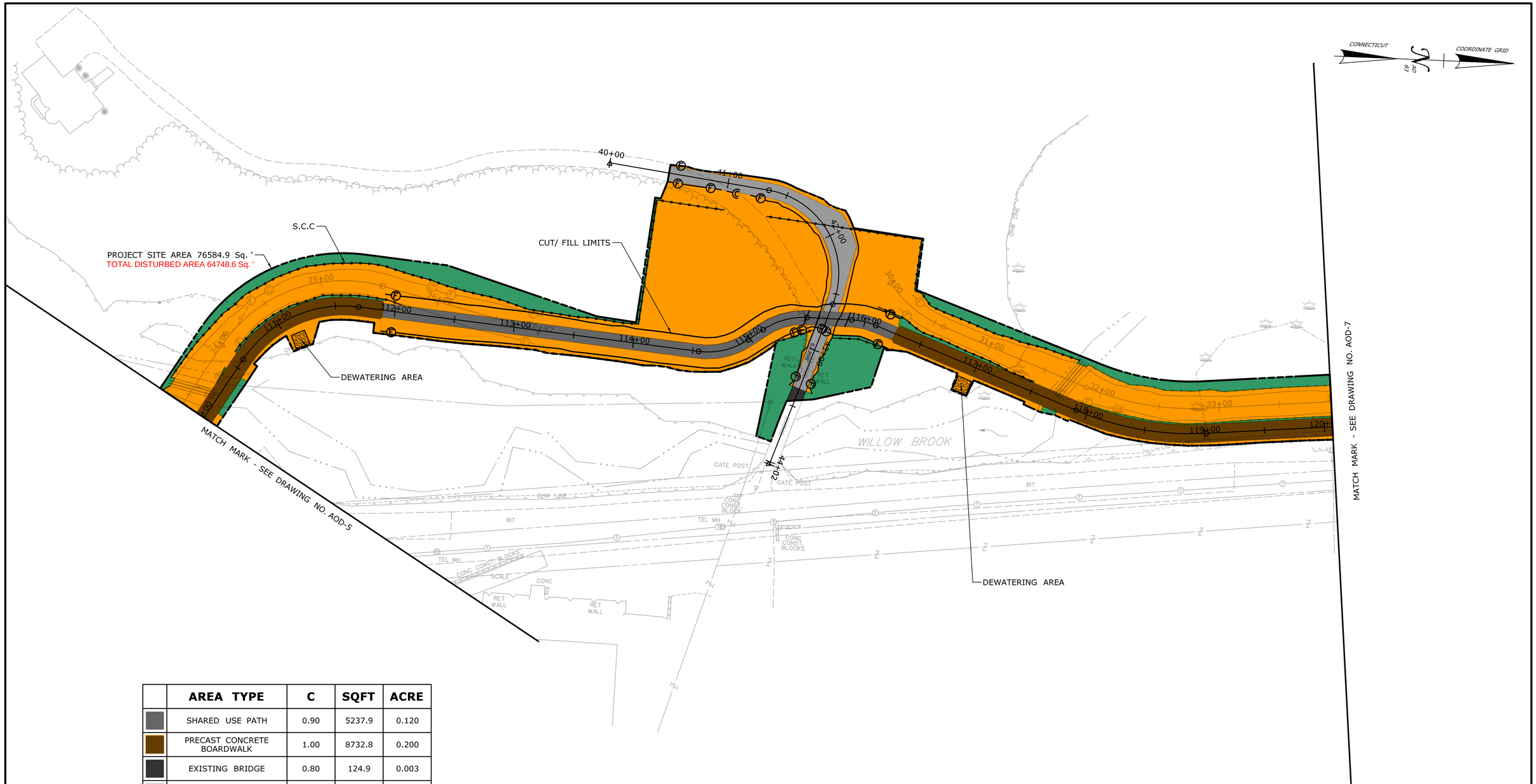
TOWN: CHESHIRE

DRAWING TITLE:
AREAS OF DISTURBANCE
POST-CONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-5

SHEET NO.



	AREA TYPE	C	SQFT	ACRE
	SHARED USE PATH	0.90	5237.9	0.120
	PRECAST CONCRETE BOARDWALK	1.00	8732.8	0.200
	EXISTING BRIDGE	0.80	124.9	0.003
	GRAVEL	0.40	4051.4	0.093
	DISTURBED PERVIOUS	0.20	55334.4	1.270
	UNDISTURBED PERVIOUS	0.20	11836.2	0.271

NOTE: PRECAST CONCRETE BOARDWALK AREAS ARE INCLUDED IN DISTURBED PERVIOUS AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/4/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater..Areas..AOD-6.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

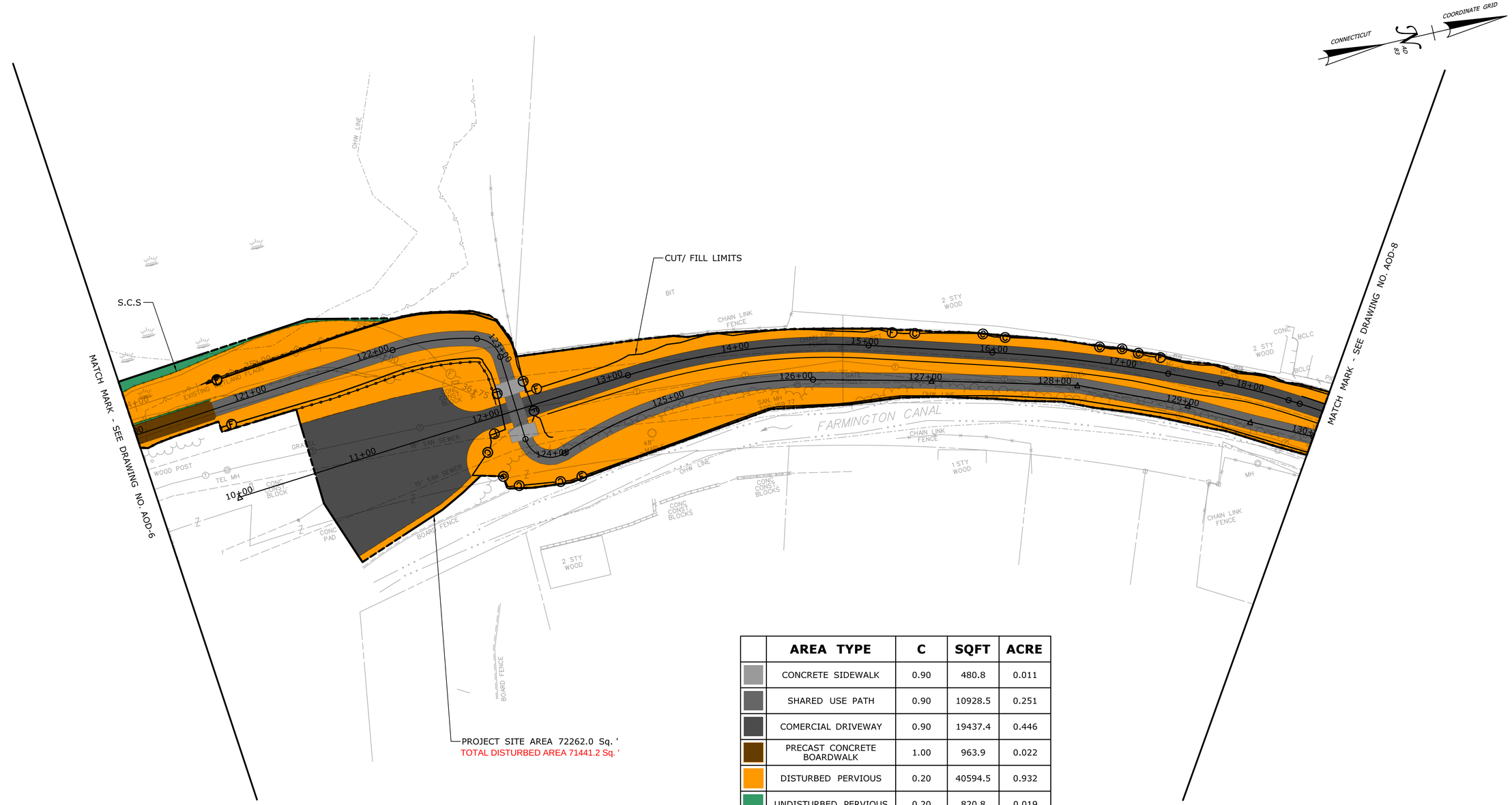
TOWN: CHESHIRE

DRAWING TITLE:
AREAS OF DISTURBANCE POST-CONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-6

SHEET NO.



	AREA TYPE	C	SQFT	ACRE
	CONCRETE SIDEWALK	0.90	480.8	0.011
	SHARED USE PATH	0.90	10928.5	0.251
	COMERCIAL DRIVEWAY	0.90	19437.4	0.446
	PRECAST CONCRETE BOARDWALK	1.00	963.9	0.022
	DISTURBED PERVIOUS	0.20	40594.5	0.932
	UNDISTURBED PERVIOUS	0.20	820.8	0.019

NOTE: PRECAST CONCRETE BOARDWALK AREAS ARE INCLUDED IN DISTURBED PERVIOUS AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater..Areas..AOD-7.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

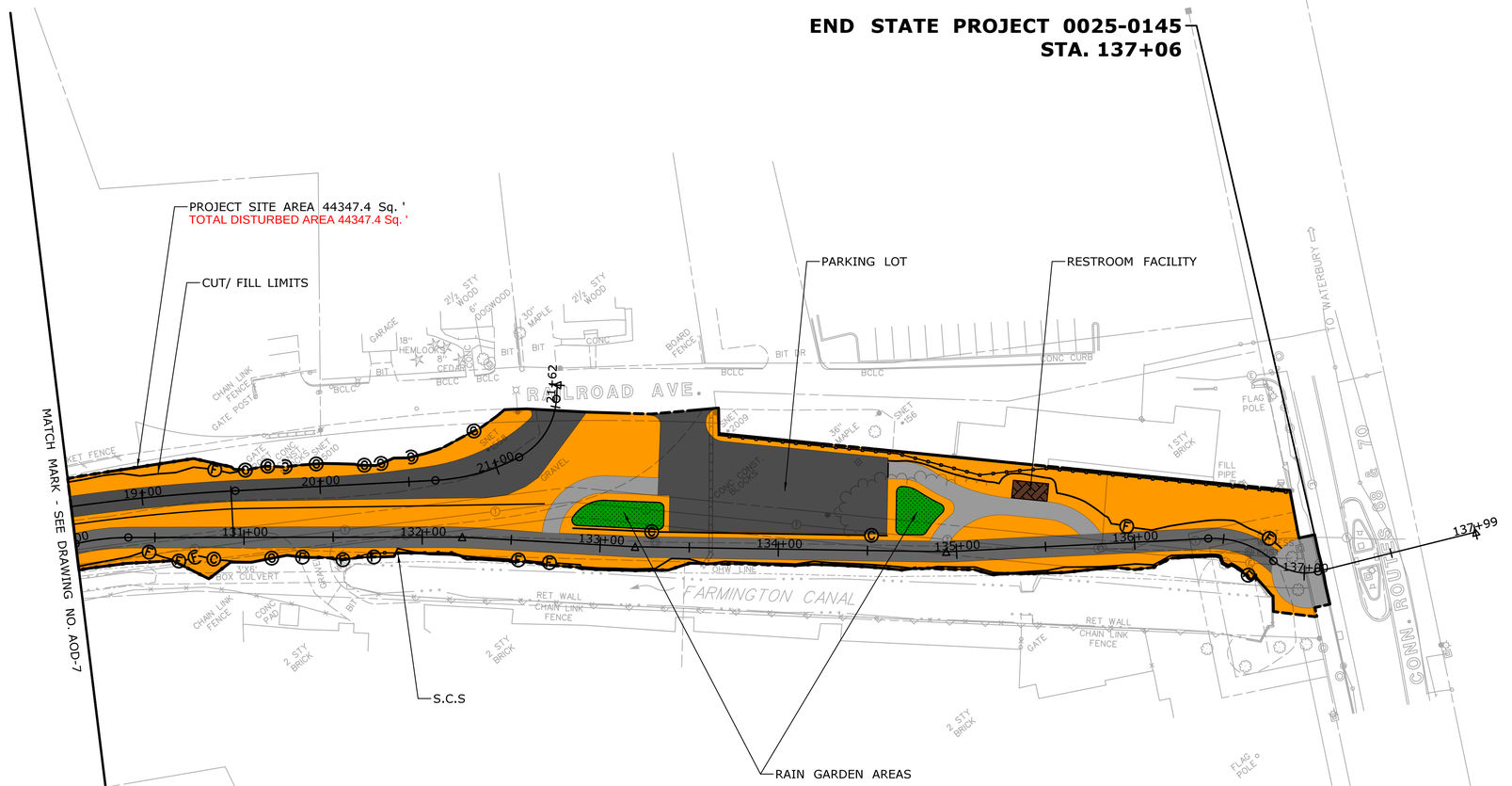
DRAWING TITLE:
AREAS OF DISTURBANCE
POST-CONSTRUCTION

PROJECT NO. 25-145

DRAWING NO. AOD-7

SHEET NO.

END STATE PROJECT 0025-0145
STA. 137+06



	AREA TYPE	C	SQFT	ACRE
	CONCRETE SIDEWALK	0.90	3240.8	0.074
	SHARED USE PATH	0.90	8078.2	0.185
	COMERCIAL DRIVEWAY	0.90	4850.9	0.111
	RESTROOM FACILITY	1.00	200.0	0.005
	PARKING LOT	0.90	6550.1	0.150
	RAIN GARDEN	0.10	1232.0	0.028
	DISTURBED PERVIOUS	0.20	20195.4	0.464

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/3/2016

DESIGNER/DRAFTER: NAI/AJC
CHECKED BY: VS
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Stormwater..Areas..AOD-8.dgn

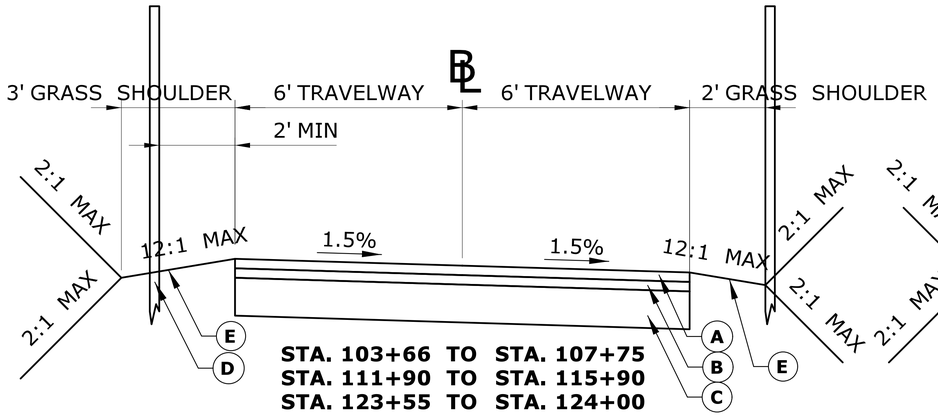
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

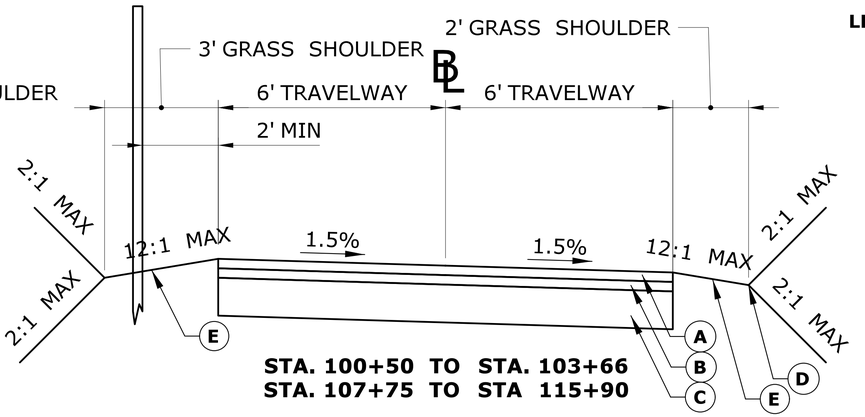
TOWN: CHESHIRE

DRAWING TITLE:
AREAS OF DISTURBANCE
POST-CONSTRUCTION

PROJECT NO. 25-145
DRAWING NO. AOD-8
SHEET NO.



STA. 103+66 TO STA. 107+75
STA. 111+90 TO STA. 115+90
STA. 123+55 TO STA. 124+00

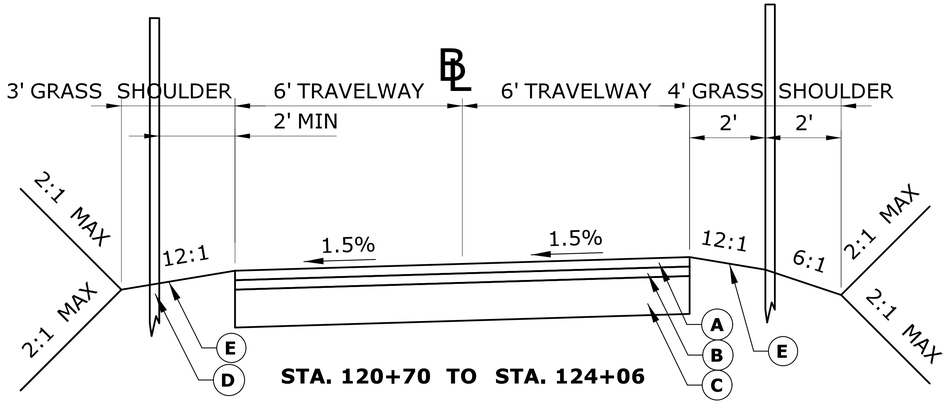


STA. 100+50 TO STA. 103+66
STA. 107+75 TO STA 115+90

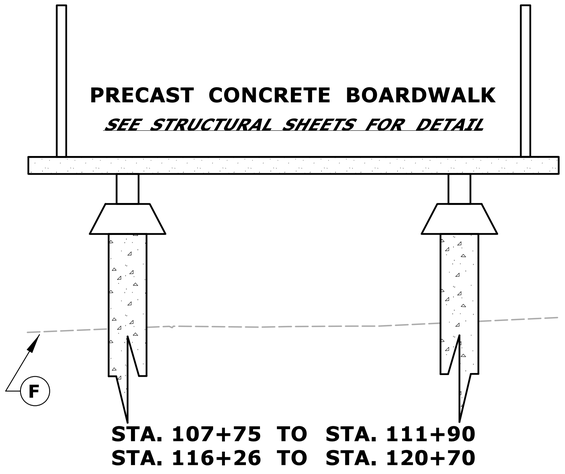
LEGEND

- (A) 1.25" HMA S0.25 (DESIGN LEVEL 2)
- (B) 1.5" HMA S0.375 (DESIGN LEVEL 2)
- (C) 6" PROCESSED AGGREGATE BASE
- (D) FENCE / TIMBER RAIL TREATMENT WHERE INDICATED ON PLAN (SEE PLAN FOR FENCE TYPE AND LOCATION)
- (E) 4" TOP SOIL AND TURF ESTABLISHMENT
- (F) EXISTING GROUND

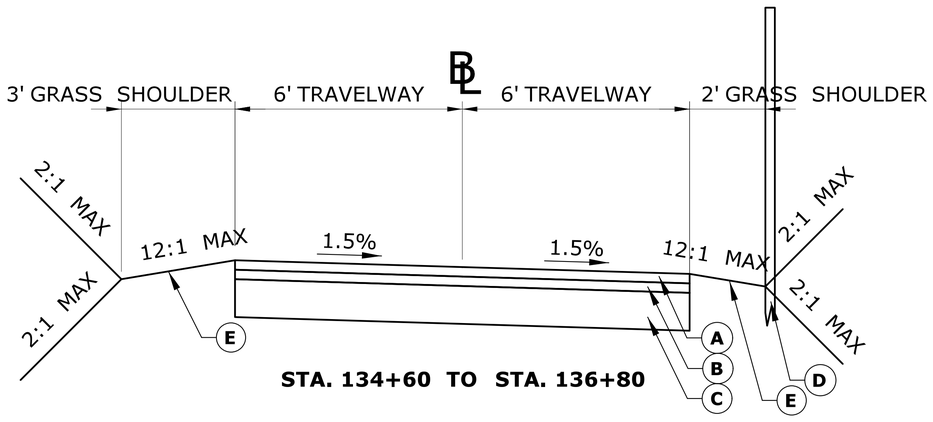
PARKING LOT
- (G) 4" HMA S0.5
- (H) 6" HMA S1.0
- (I) 18" PROCESSED AGGREGATE BASE



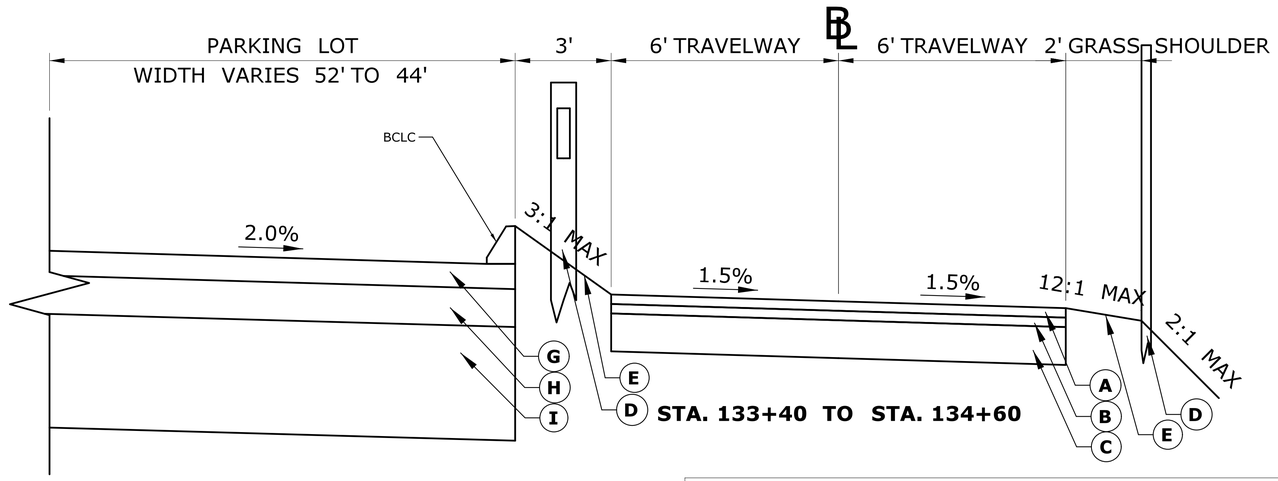
STA. 120+70 TO STA. 124+06



STA. 107+75 TO STA. 111+90
STA. 116+26 TO STA. 120+70



STA. 134+60 TO STA. 136+80



STA. 133+40 TO STA. 134+60

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_TYP-1.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

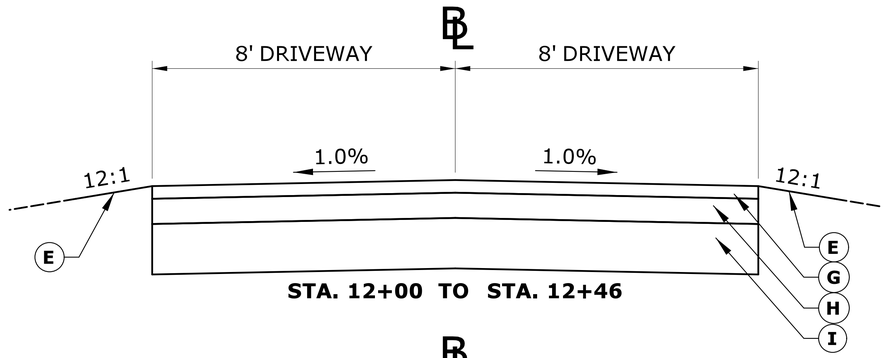
TOWN: TOWN OF CHESHIRE

DRAWING TITLE: TYPICAL SECTIONS

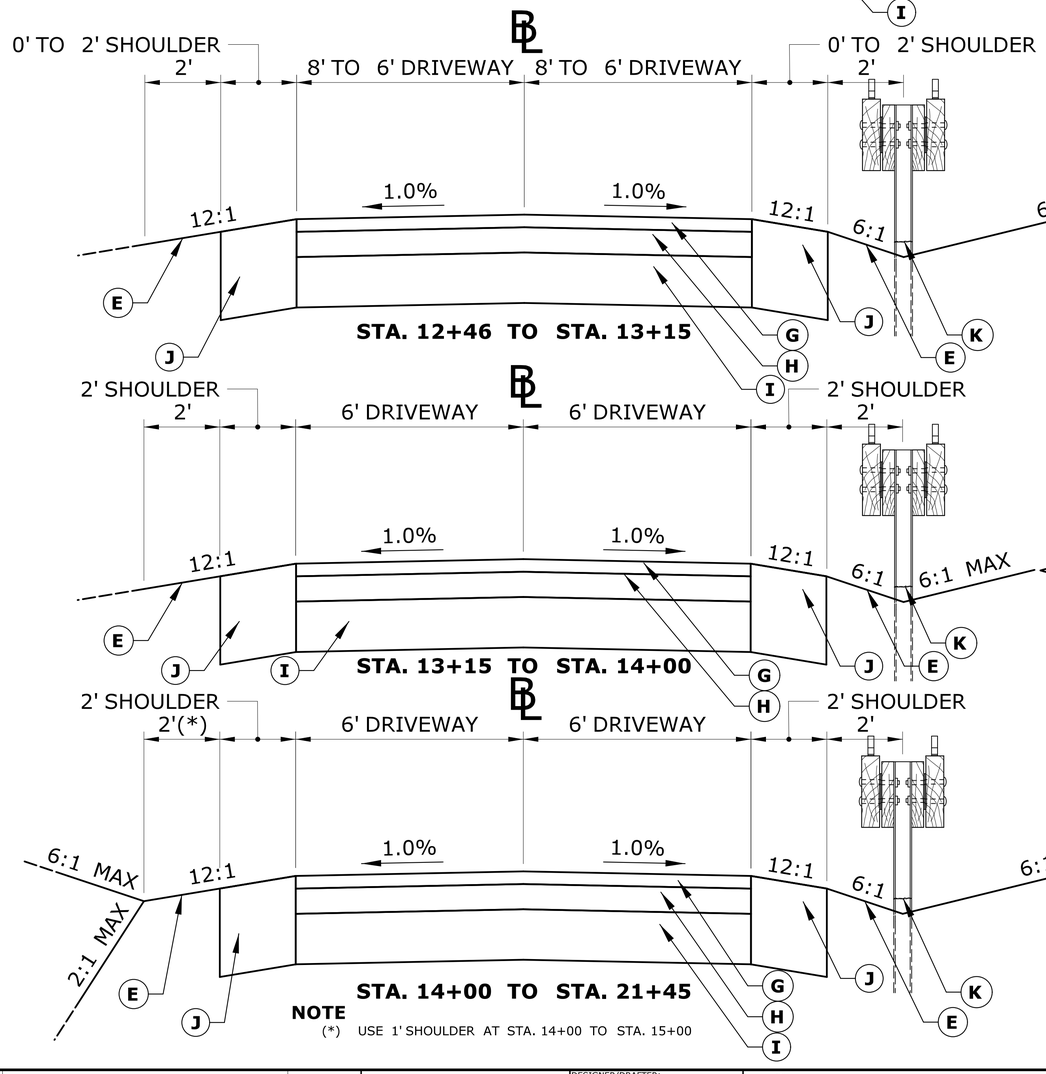
PROJECT NO. 25-145
DRAWING NO. TYP-01
SHEET NO.

LEGEND

- (A) 1.25" HMA S0.25 (DESIGN LEVEL 2)
- (B) 1.5" HMA S0.375 (DESIGN LEVEL 2)
- (C) 6" PROCESSED AGGREGATE BASE
- (D) FENCE / TIMBER RAIL TREATMENT WHERE INDICATED ON PLAN (SEE PLAN FOR FENCE TYPE AND LOCATION)
- (E) 4" TOP SOIL AND TURF ESTABLISHMENT
- (F) EXISTING GROUND
- (G) 2" HMA S0.5
- (H) 4" HMA S1.0
- (I) 8" PROCESSED AGGREGATE BASE
- (J) 14" PROCESSED AGGREGATE SHOULDER
- (K) MERITT PARKWAY MEDIAN GUIDERAIL



STA. 12+00 TO STA. 12+46

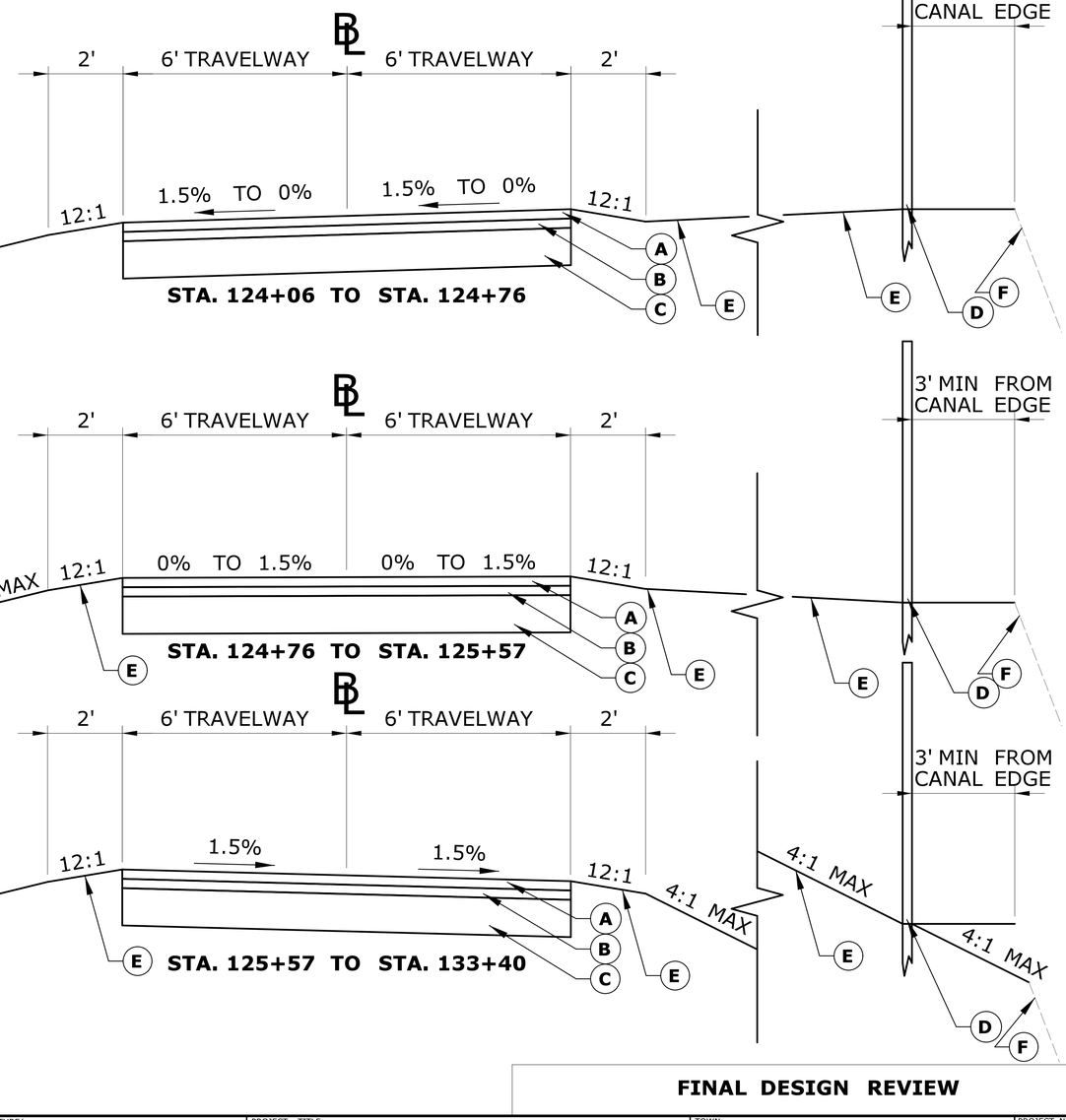


STA. 12+46 TO STA. 13+15

STA. 13+15 TO STA. 14+00

STA. 14+00 TO STA. 21+45

NOTE
(*) USE 1' SHOULDER AT STA. 14+00 TO STA. 15+00



STA. 124+06 TO STA. 124+76

STA. 124+76 TO STA. 125+57

STA. 125+57 TO STA. 133+40

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_TYP-2.dgn

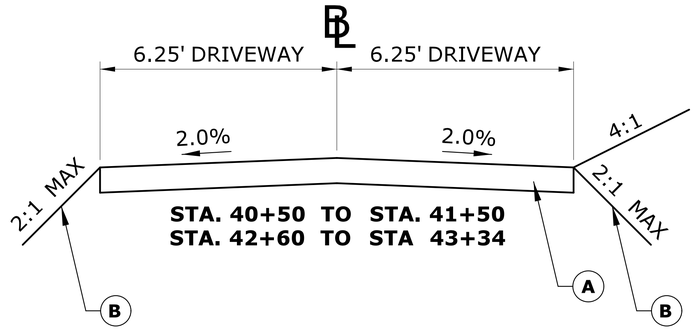
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

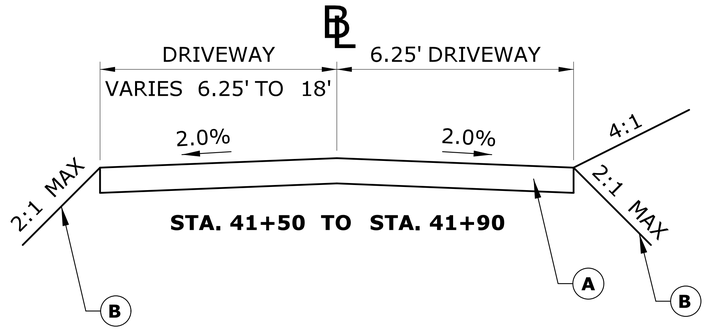
PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

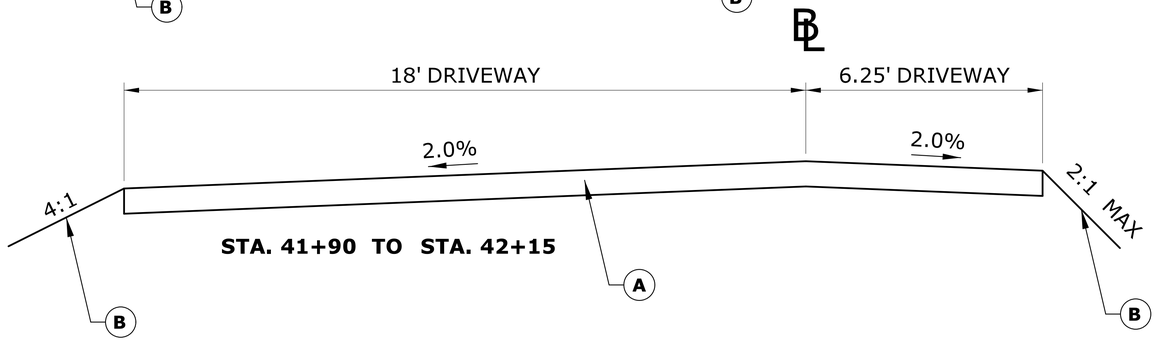
TOWN: TOWN OF CHESHIRE

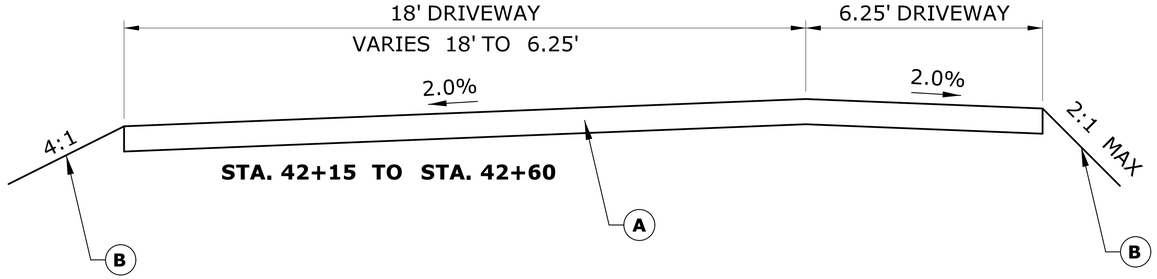
DRAWING TITLE: TYPICAL SECTIONS

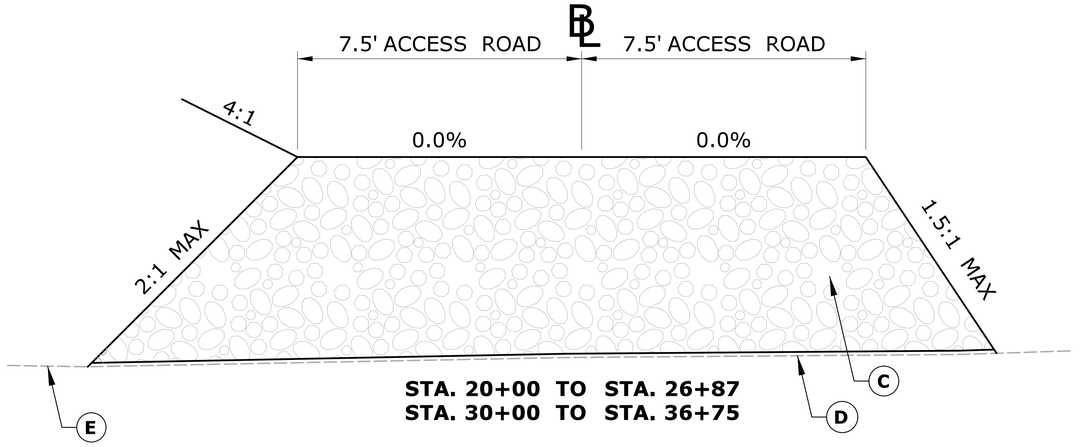
PROJECT NO. 25-145
DRAWING NO. TYP-02
SHEET NO.











LEGEND

- (A) 4" PROCESSED AGGREGATE BASE
- (B) TURF ESTABLISHMENT
- (C) NO. 6 CRUSHED STONE
- (D) GEOTEXTILE (SEPARATION - HIGH SURVIVABILITY)
- (E) EXISTING GROUND

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_TYP-3.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

TOWN: TOWN OF CHESHIRE

DRAWING TITLE: TYPICAL SECTIONS

PROJECT NO. 25-145
DRAWING NO. TYP-03
SHEET NO.

GENERAL NOTES:

1. UTILITIES PLOTTED ON THE TOWN ROADS WERE TAKEN FROM MAPS PROVIDED BY THE TOWN OF CHESHIRE ENGINEERING OFFICE. UTILITIES WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE AND MAY NOT REPRESENT ACTUAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES AS DESCRIBED IN THE NOTICE TO CONTRACTOR - PROTECTION OF EXISTING UTILITIES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THE UTILITIES SHOWN ON THE PLANS.

2. THE SURVEY INFORMATION COMPILED ON THE PLANS WAS CONDUCTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION, DISTRICT 4.

3. COORDINATES ARE BASED UPON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD 83 (CONUS0 AND REFERENCE GEOID03 (CONUS).

4. VERTICAL DATUM BASED ON NAVD 1988.

5. THE WETLAND LIMITS SHOWN WERE DELINEATED BY GZA GEOENVIRONMENTAL. THE DEPARTMENT OF TRANSPORTATION FIELD LOCATED THE WETLANDS. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE "BEST MANAGEMENT" PRACTICES AS OUTLINE IN ARTICLE 1.10.03 OF THE STANDARD SPECIFICATIONS.

6. PROPERTY LINES DEPICTED HAVE BEEN COMPILED FROM THE TOWN OF CHESHIRE TAX ASSESSORS MAPS, NOT ALL HAVE BEEN FIELD VERIFIED AND SHOULD BE CONSIDERED APPROXIMATE.

7. THE CONTRACTOR SHALL BE AWARE OF THE WORK WHICH IS TO BE PERFORMED ON OR ADJACENT TO PRIVATE PROPERTY AND SHALL FAMILIARIZE HIMSELF WITH ANY PARTIAL TAKES OR RIGHTS ESTABLISHED FOR THE PURPOSE OF CONSTRUCTION.

8. THE CONTRACTOR SHALL NOT USE ANY EXISTING BRIDGE STRUCTURES LOCATED ON PRIVATE PROPERTY FOR CONSTRUCTION ACCESS WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER.

9. AFTER THE STAKEOUT OF THE TRAIL, THE ENGINEER VITALIJ STAROVEROV SHALL BE CONTACTED AT 14 DAYS PRIOR TO THE CLEARING OPERATIONS AND/OR CONSTRUCTION OPERATIONS AT (860) 594-2582. AT THAT TIME THE ENGINEER WILL WALK THE TRAIL TO IDENTIFY VEGETATION TO BE SAVE. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

10. SILT FENCE SHALL BE INSTALLED IN FILL AREAS AS SHOWN ON THE PLANS. THE SILT FENCE WILL ALSO BE USED AS A WAY TO PREVENT ANY EASTERN BOX TURTLE, WOOD TURTLE, OR EASTERN RIBBON SNAKE ACCESS TO THE CONSTRUCTION AREAS. THE CONTRACTOR WILL BE REQUIRED TO PROTECT THESE ENDANGERED SPECIES, AS OUTLINE IN SECTION 1.10 ENVIRONMENTAL COMPLIANCE.

11. SEDIMENT AND EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS SHALL BE MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - REVISED 2002". THE CONTRACTOR SHALL ALSO BE REQUIRED TO PROTECT THE ENVIRONMENT ACCORDING TO THE "BEST MANAGEMENT" PRACTICES OF THE STANDARD SPECIFICATIONS.

12. ALL DISTURBED AREAS SHALL BE RESTORED WITH A MINIMUM OF 4" TOPSOIL AND SEEDED WITH GRASS, AS SHOWN ON THE PLANS.

13. ALL FUEL, OIL, PAINT OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.

14. LOCATION(S) FOR WASHOUT AREA(S) FOR EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THE WASHOUT AREA(S).

UTILITIES

1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AND THE ENGINEER PRIOR TO THE START OF WORK, AS STATED IN THE NOTICE TO CONTRACTOR - PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY REPRESENTATIVES A MINIMUM OF THIRTY (30) DAYS PRIOR TO THE START OF WORK, REPRESENTATIVES MUST BE ON SITE FOR ALL EXCAVATION NEAR THEIR RESPECTIVE UTILITIES.

2. AVAILABLE COVER OVER BURIED AT&T CABLE SHALL NOT BE REDUCED TO LESS THAN EXISTING CONDITIONS.

3. CONTRACTOR SHALL HAND DIG AROUND EXISTING UTILITIES AS REQUIRED BY THE UTILITY COMPANIES AND APPLICABLE LAWS AND REGULATIONS.

4. ALL UTILITY MARKERS MUST NOT BE MOVED, HIT OR RELOCATED BY CONSTRUCTION ACT IVIES. IF THE SITUATION REQUIRES RESETTING OF UTILITY MARKERS, IT SHALL BE PERFORMED UNDER THE PRESENCE AND SUPERVISION OF THE RESPECTIVE UTILITY. THERE WILL NE NO SEPARATE PAYMENT FOR THIS WORK.

LISTED SPECIES: TURTLE & SNAKE MANAGEMENT PLAN

1. THE CONTRACTOR WILL BE REQUIRED TO PROTECT THE ENDANGERED SPECIES AS OUTLINED IN SECTION 1.10 ENVIRONMENTAL COMPLIANCE

2. THE CONTRACTOR WILL BE REQUIRED TO SEARCH THE WORK AREA EVERY MORNING PRIOR TO WORK BEING DONE.

3. PRIOR TO THE START OF WORK, SILT FENCE WILL BE INSTALLED WHERE SHOWN ON THE PLANS AS DIRECTED BY THE ENGINEER TO PREVENT ANY EASTERN BOX TURTLE, WOOD TURTLE, AND EASTERN RIBBON SNAKE ACCESS TO THE CONSTRUCTION AREA.

4. THE CONTRACTOR AND ALL THE CONSTRUCTION PERSONNEL SHALL BE APPRISED OF THE POTENTIAL PRESENCE OF THE EASTERN BOX TURTLE, WOOD TURTLE, AND EASTERN RIBBON SNAKE WITHIN THE PROJECT SITE AND GIVEN A DESCRIPTION OF EACH REPTILE AND AMPHIBIAN FOR PROPER IDENTIFICATION PURPOSES.

5. ANY SPECIES ENCOUNTERED WITHIN THE IMMEDIATE WORK AREA SHALL BE CAREFULLY MOVED TO AN ADJACENT AREA OUTSIDE OF THE PROJECT AREA AND THE FIELD INSPECTOR MUST IMMEDIATELY CONTACT OEP AT (860) 594-2937 WITH THE LOCATION.

6. NO HEAVY MACHINERY OR VEHICLES SHALL BE PARKED IN ANY SPECIES HABITAT.

7. IN AREAS WHERE SILT FENCE IS USED FOR PROTECTION OF ENDANGERED SPECIES, IT SHALL BE REMOVED AS SOON AS THE AREA IS STABLE TO ALLOW FOR REPTILE AND AMPHIBIAN PASSAGE TO RESUME

8. THE SILT FENCE SHALL BE PAID FOR UNDER THE ITEM "SEDIMENTATION CONTROL SYSTEM" THERE WILL BE NO SEPARATE PAYMENT FOR THE TURTLE AND SNAKE MANAGEMENT PLAN.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/5/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_GN-1.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

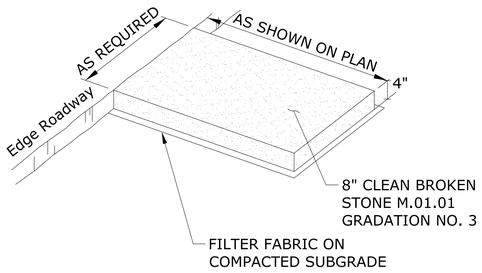
TOWN: **CHESHIRE**

DRAWING TITLE: **GENERAL NOTES**

PROJECT NO. **25-145**

DRAWING NO. **GN-01**

SHEET NO.

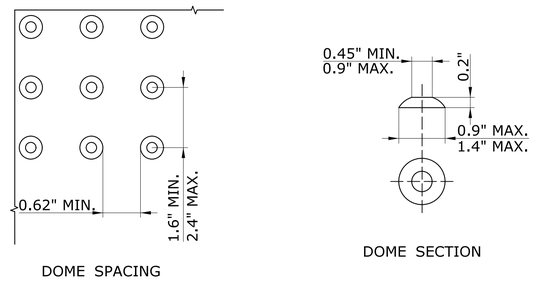


ANTI-TRACKING PAD

AT RAILROAD AVENUE
& CORNWALL AVENUE

NOTES:

PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD.

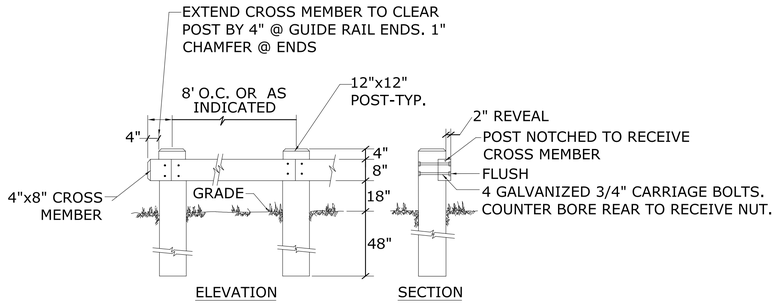


STANDARD DOME ON DETECTABLE WARNING TILES

DETECTABLE WARNING STRIP

NOTES:

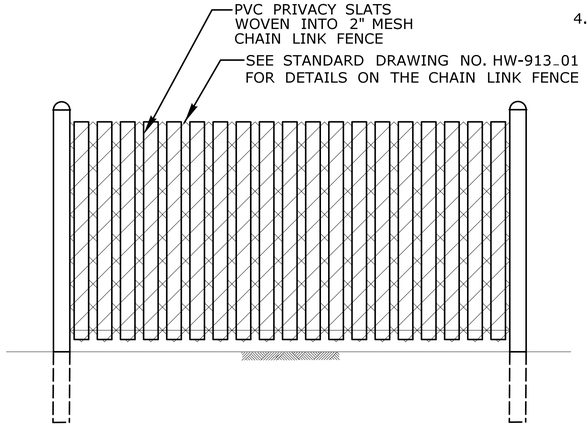
1. ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF THE RUNNING SLOPE (PERPENDICULAR TO THE CURB). THE TRANSITION O THE DETECTABLE WARNING STRIP (SEE MDS-04) TO THE GUTTER SHALL BE FLUSH WITHOUT A LIP.
2. INSTALL THE DETECTABLE WARNING STRIP 6" FROM THE EDGE OF THE ROAD ALONG THE FULL WIDTH OF THE CONCRETE PAVERS.
3. DETECTABLE WARNING STRIP INCLUDING CONCRETE BASE TO BE PAID FOR PER EACH UNDER THE CONTRACT ITEM NO. 0921039A



TIMBER BEAM RAIL

NOTES:

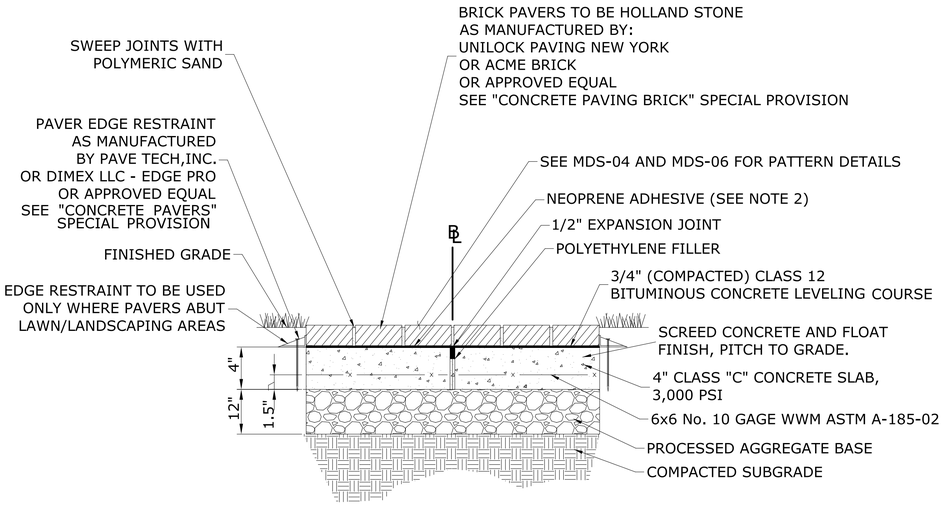
1. ALL WOOD TO BE PRESSURE TREATED SOUTHERN YELLOW PINE.
2. ALL RAIL AND POST LUMBER SHALL BE COMMERCIAL GRADE, NO. 1 DENSE, (Fb = 10 FPo) OR NETTER, CONFORMING TO NOMINAL SIZES AND DIMENSIONS SHOWN AND TO AASHTO SPECIFICATION M168. ALL TIMBER SHALL BE TREATED WITH A PRESSURE IMPREGNATED PRESERVATIVE IN ACCORDANCE WITH AASHTO SPECIFICATION M133.
3. BOLTS SHALL BE $\frac{3}{4}$" DIA., ASTM 307, WITH APPROVED NUTS AND WASHERS (ALL HOT-DIPPED GALVANIZED).
4. BACK FILL AROUND EACH POST WITH SUITABLE NATIVE MATERIAL IN 1' LIFTS.
5. CONTRACTOR TO PROVIDE 90° AND 45° ANGLE POINTS IN THE RAIL AND END POSTS.



8' CHAIN LINK FENCE

NOTES:

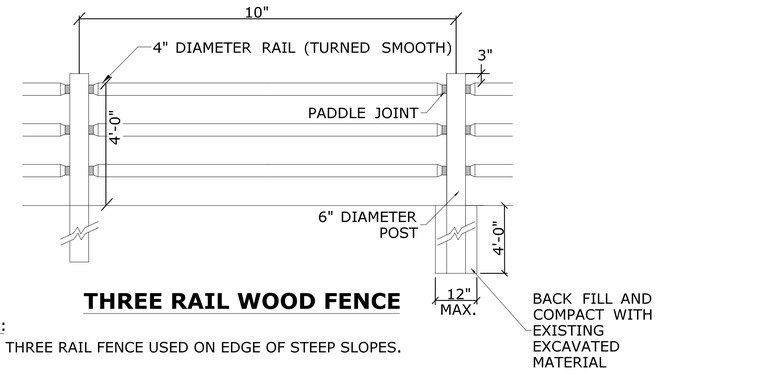
PRIVACY SLATS SHALL BE INCLUDED IN THE THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR "8' CHAIN LINK FENCE" (ITEM NO. 0913041A)



CONCRETE PAVING BRICK

NOTES:

1. ALL CONCRETE PAVERS SHALL BE HOLLAND STONE, COLOR - RUSTIC RED, AS MANUFACTURED BY UNILOCK NEW YORK OR ACME BRICK OR APPROVED EQUAL.
2. NEOPRENE ADHESIVE SHALL BE PLACE ON THE CONCRETE SLAB PRIOR TO PLACING THE BITUMINOUS CONCRETE LEVELING COURSE AND ON TOP OF THE BITUMINOUS LEVELING COURSE PRIOR TO SETTING CONCRETE UNIT PAVERS.
3. EXP. JOINT SHALL BE SET ALONG THE BASELINE. CONCRETE BASE SHALL BE SCREED WITH A FLOAT FINISH. THE $\frac{3}{4}$" CLASS 12 BITUMINOUS LEVELING COURSE SHALL MATCH THE PROFILE GRADES OF THE TRAIL.
4. THE POLYMERIC SAND USED FOR THE PAVER JOINTS SHALL BE THOROUGHLY WETTED FOLLOWING INSTALLATION.



THREE RAIL WOOD FENCE

NOTES:

1. THREE RAIL FENCE USED ON EDGE OF STEEP SLOPES.
2. ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.
3. TOP RAIL OF FENCE TO BE NO LESS THAN 48" ABOVE THE PAVED GREENWAY SURFACE.
4. REFER TO SPECIAL PROVISIONS ITEM #0906204A FOR MORE INFORMATION.

FINAL DESIGN REVIEW

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Plotted Date: 7/1/2016

DESIGNER/DRAFTER: AJC
CHECKED BY: VS
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

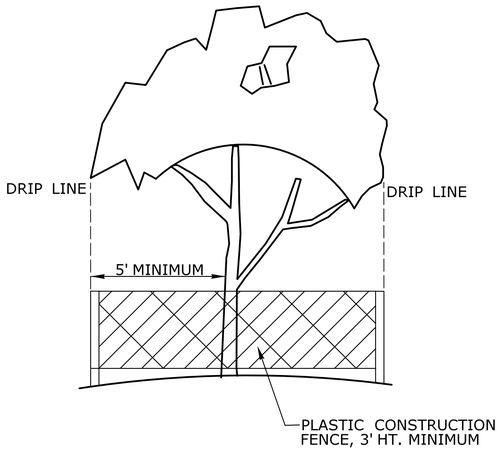
Filename: ...\Plan\HW_MSH_MDS-3.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE
DRAWING TITLE: MISCELLANEOUS DETAILS

PROJECT NO. 25-145
DRAWING NO. MDS-03
SHEET NO.



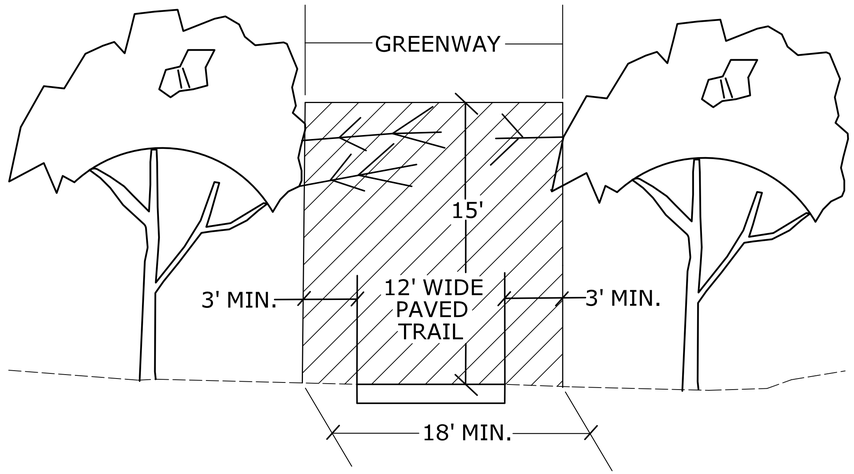
TREE PROTECTION

GENERAL NOTES:

1. TREE PROTECTION FENCE WILL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
2. FENCE SHALL COMPLETELY SURROUND THE TREE OR CLUSTER OF TREES.
3. FENCE SHALL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIPLINE) AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT THE FOLLOWING:
   - A. SOIL COMPACTION IN THE ROOT ZONE RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF CONSTRUCTION MATERIALS.
   - B. ROOT ZONE DISTURBANCES DUE TO GRADING CHANGES (GREATER THAN 6") CUT OR FILL OR TRENCHING.
   - C. WOUNDS TO EXPOSED TREE ROOTS, TRUNKS OR LIMBS.
   - D. OTHER ACTIVITIES DETRIMENTAL TO TREE HEALTH SUCH AS CHEMICAL STORAGE OR CLEANING.
4. EXCEPTIONS TO INSTALLING FENCE TO THE DRIPLINE MAY BE CONSIDERED FOR APPROVAL AND MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. TREE PROTECTION TO BE PAID FOR AT THE CONTRACT LUMP SUM FOR "TREE PROTECTION", INCLUDING ALL MATERIALS AND LABOR INCIDENTAL TO THE COMPLETION OF THE ITEM.

SUGGESTED SEQUENCE OF OPERATIONS FOR CLEARING LIMITS AND ROOT PRUNING:

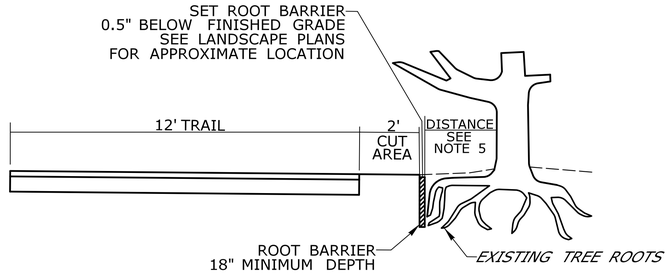
1. INSTALL SEDIMENTATION CONTROL SYSTEM
2. PERFORM CLEARING AND GRUBBING
3. ROOT PRUNING IN AREAS AS DIRECTED BY THE ENGINEER (REFER TO ROOT PRUNING SPECIFICATION)
4. EXCAVATE THE TRAIL
5. INSTALL ROOT BARRIER AS DIRECTED BY THE ENGINEER
6. INSTALL PROCESSED AGGREGATE BASE
7. PAVE TRAIL



TYPICAL TRAIL CLEARING LIMITS DETAIL

GENERAL NOTES:

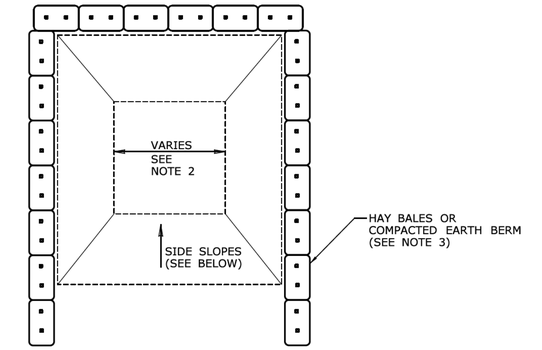
1. CONTRACTOR IS RESPONSIBLE FOR TRIMMING TREES TO PROVIDE A MINIMUM OF 15 FEET OF VERTICAL CLEARANCE FROM THE FINISHED GRADE OF THE GREENWAY.
2. HORIZONTALLY THE CONTRACTOR SHALL REMOVE ALL VEGETATION WITHIN A MINIMUM OF 18 FEET OR THE SLOPE LIMITS SHOWN ON THE PLANS
3. THIS WORK TO BE PAID FOR UNDER "CLEARING AND GRUBBING."



ROOT BARRIER

GENERAL NOTES:

1. ALL ROOTS MORE THAN 1" IN DIAMETER THAT HAVE BEEN EXPOSED AND DAMAGED FROM TRENCHING ACTIVITIES SHALL BE REMOVED.
2. MAKE A CLEAN STRAIGHT CUT TO EXPOSE THE DAMAGE PORTION OF THE ROOT.
3. LARGE EXPOSED ROOTS SHOULD BE COVERED IN DAMP BURLAP TO TEMPORARILY PREVENT DRYING AND DAMAGE.
4. CONTRACTOR SHALL CONSULT A CERTIFIED ARBORIST REGARDING THINNING OF THE FOLIAGE CANOPY.
5. LOCATION OF THE ROOT BARRIER IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
6. DISTANCE BETWEEN THE TREE AND THE ROOT BARRIER TO BE DETERMINED BY THE ENGINEER. MINIMUM DISTANCE IS THREE TIMES THE TRUNK CALIPER.
7. ROOT BARRIER TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF "ROOT BARRIER".



CONCRETE WASHOUT AREA

NOT TO SCALE
(SEE NOTE 2)

CONCRETE WASHOUT NOTES:

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.

   LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAIN, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN

   SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHALL BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHALL BE FLAGGED WITH SAFETY FENCING OR OTHER METHODS APPROVED BY THE ENGINEER.
5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECK FOR LEAKS, TEARS, OR OVERFLOWS (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT). WASHOUT AREA(S) SHALL BE CHECK AFTER HEAVY RAINS AND STORM EVENTS.
6. HARDENED CONCRETE WASTE SHALL BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.
7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION. THERE WILL BE NO SEPARATE PAYMENT FOR CONCRETE WASHOUT AREA(S).

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/1/2016

DESIGNER/DRAFTER: AJC
CHECKED BY: VS
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

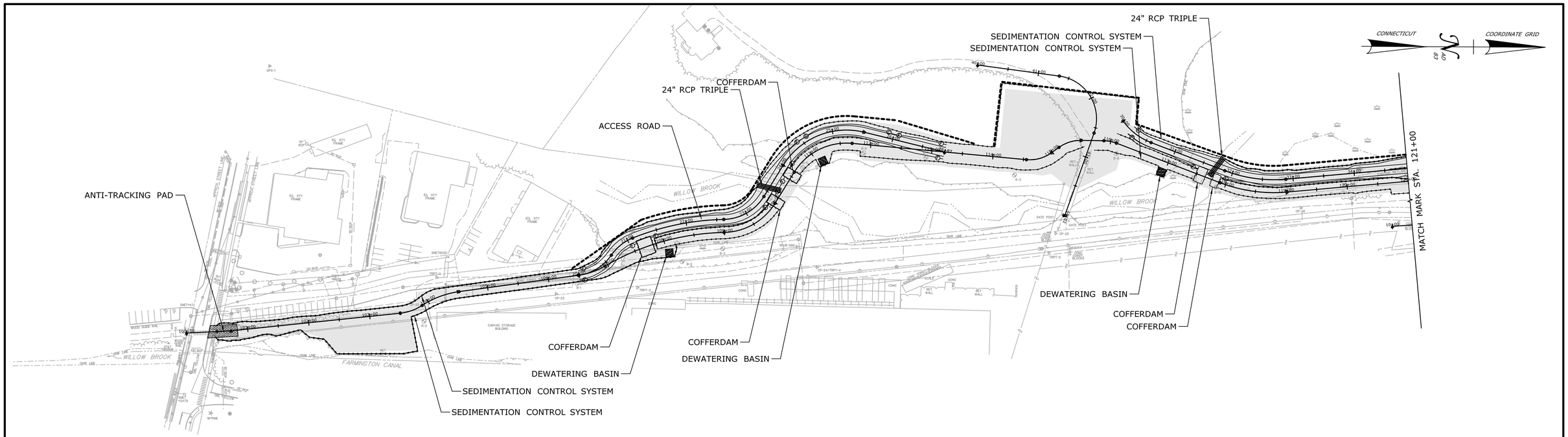
Filename: ...\Plan\HW_MSH_MDS-5.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE
DRAWING TITLE: MISCELLANEOUS DETAILS

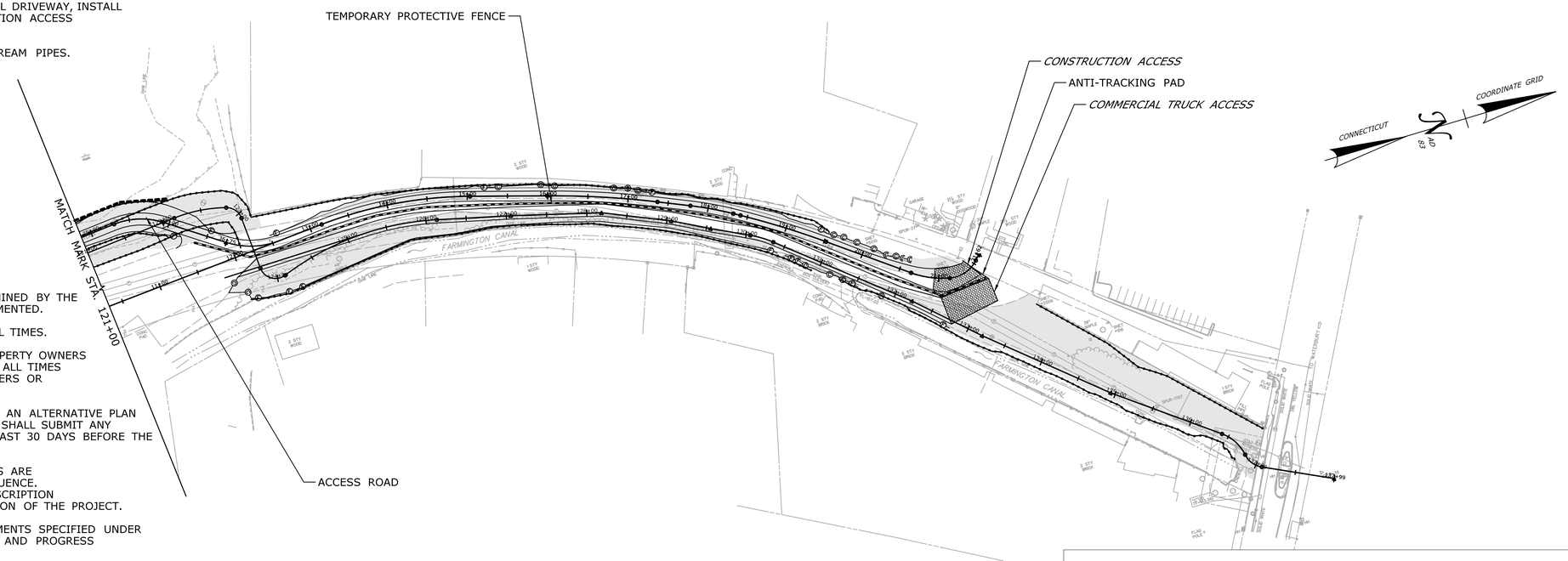
PROJECT NO. 25-145
DRAWING NO. MDS-05
SHEET NO.



SEQUENCE 1

1. INSTALL SEDIMENTATION CONTROL SYSTEM, AND CLEAR AND GRUB WITHIN PROJECT LIMITS.
2. DIVERT COMMERCIAL TRUCK ACCESS TO TEMPORARY COMMERCIAL DRIVEWAY, INSTALL TEMPORARY CONSTRUCTION FENCING TO FACILITATE CONSTRUCTION ACCESS AND ANTI TRACKING PADS.
3. CONSTRUCT TEMPORARY ACCESS ROADS AND TEMPORARY IN STREAM PIPES.
4. INSTALL COFFER DAMS AND ASSOCIATED DEWATERING BASINS.

CLEARING LIMITS



GENERAL NOTES - ALL SEQUENCES

1. EACH SEQUENCE SHALL BE FUNCTIONALLY COMPLETE, AS DETERMINED BY THE ENGINEER, BEFORE ANY SUBSEQUENT SEQUENCES MAY BE IMPLEMENTED.
2. ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
3. CONSTRUCTION DRIVES SHALL BE COORDINATED WITH THE PROPERTY OWNERS AND TEMPORARY ACCESS TO DRIVES SHALL BE MAINTAINED AT ALL TIMES UNLESS PRIOR ARRANGEMENTS ARE MADE WITH PROPERTY OWNERS OR BUSINESS PROPRIETORS.
4. THE SEQUENCE OF CONSTRUCTION SHALL BE FOLLOWED UNLESS AN ALTERNATIVE PLAN IS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED VARIATIONS TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS BEFORE THE NEXT SCHEDULED SEQUENCE CHANGE.
5. WORK SHOWN ON SUGGESTED CONSTRUCTION SEQUENCE PLANS ARE A GENERAL OVERVIEW OF MAJOR CONSTRUCTION IN EACH SEQUENCE. THESE PLANS ARE NOT INTENDED TO PROVIDE A DETAILED DESCRIPTION OF ALL WORK WHICH MAY BE REQUIRED FOR PROPER COMPLETION OF THE PROJECT.
6. ALL CONSTRUCTION IS SUBJECT TO LIMITATIONS AND REQUIREMENTS SPECIFIED UNDER MAINTENANCE AND PROTECTION OF TRAFFIC AND PROSECUTION AND PROGRESS

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET 0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_STG-01.dgn

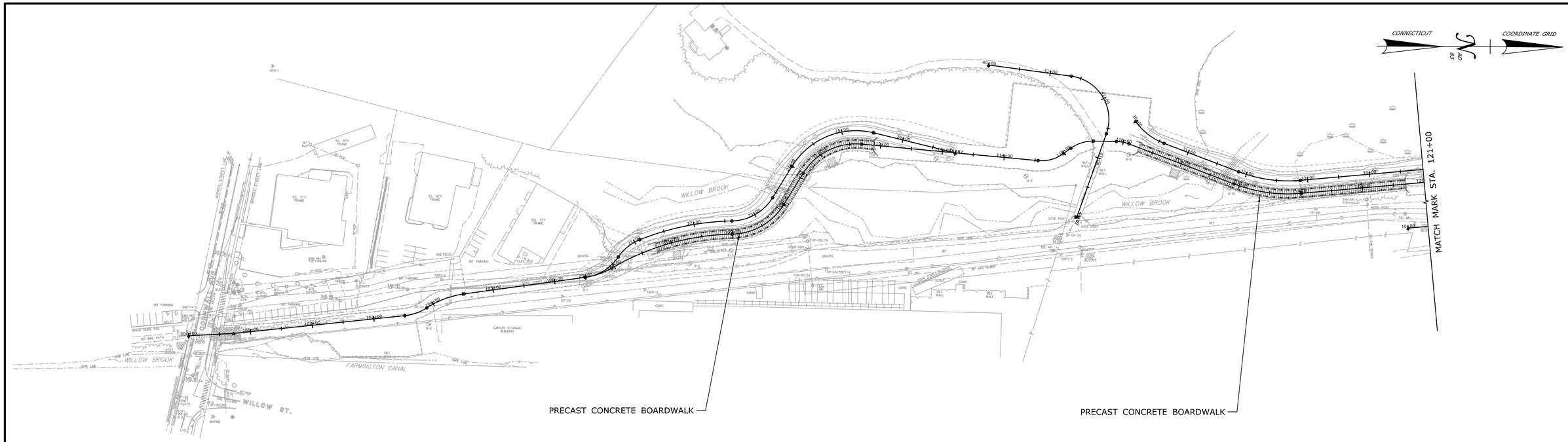
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

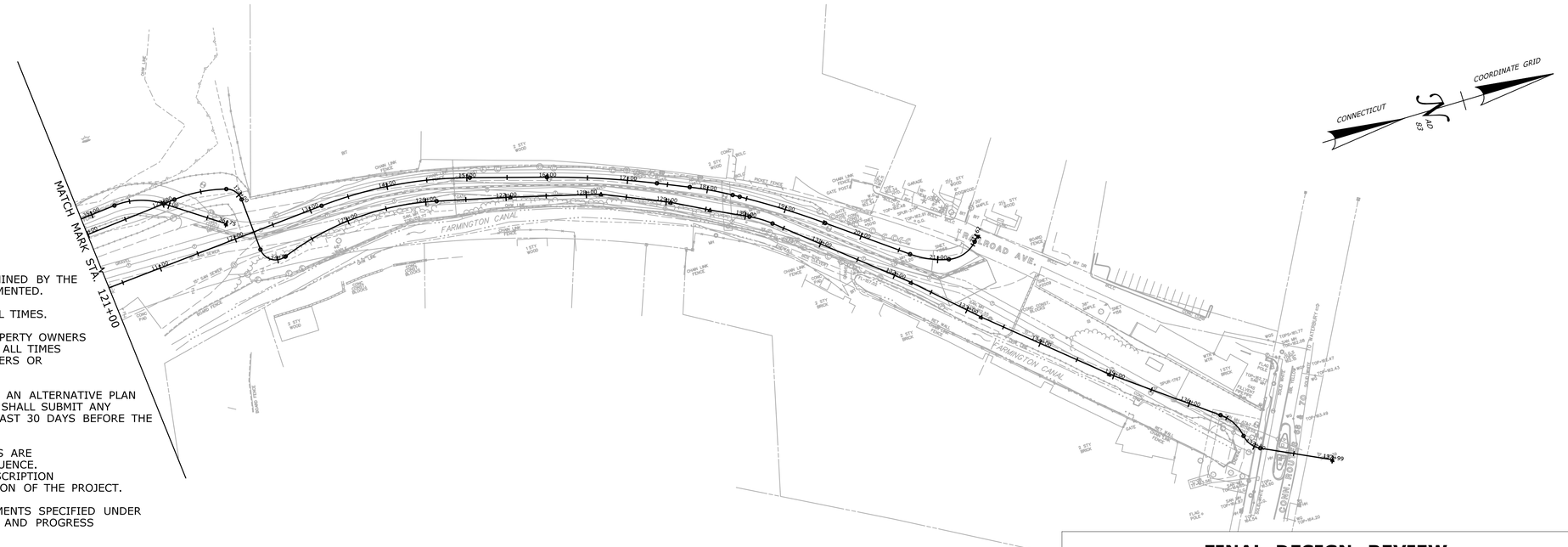
DRAWING TITLE: CONSTRUCTION SEQUENCE 1

PROJECT NO. 25-145
DRAWING NO. STG-01
SHEET NO.



SEQUENCE 2

1. INSTALL ALL FOOTINGS, ABUTMENTS, PIERS, BEAMS, AND TREADS FOR THE RAISED BOARDWALK PORTION OF THE TRAIL IN ACCORDANCE WITH THE STRUCTURAL PLANS.



GENERAL NOTES - ALL SEQUENCES

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4. THE SEQUENCE OF CONSTRUCTION SHALL BE FOLLOWED UNLESS AN ALTERNATIVE PLAN IS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED VARIATIONS TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS BEFORE THE NEXT SCHEDULED SEQUENCE CHANGE.
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FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET 0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_STG-02.dgn

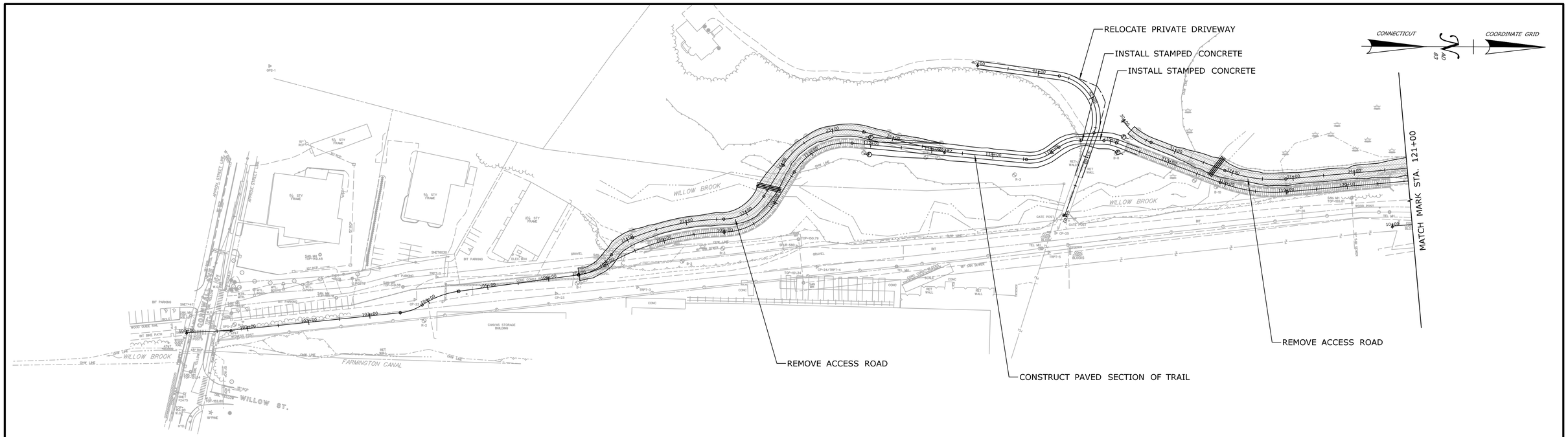
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE: CONSTRUCTION SEQUENCE 2

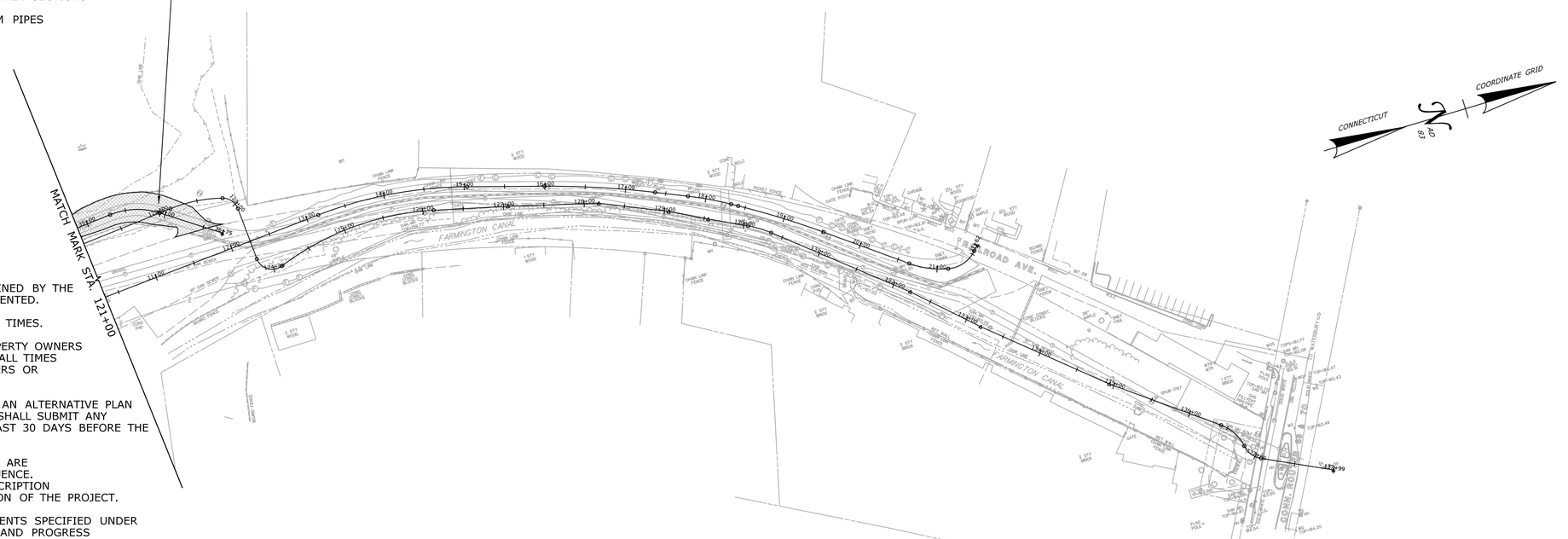
PROJECT NO. 25-145
DRAWING NO. STG-02
SHEET NO.



SEQUENCE 3

1. RELOCATE PRIVATE DRIVEWAY.
2. CONSTRUCT PAVED SECTION OF TRAIL BETWEEN RAISED BOARDWALK SECTIONS
3. REMOVE COFFERDAMS, ACCESS ROADS, AND TEMPORARY INSTREAM PIPES IF WITHIN THE ALLOWABLE TIME OF YEAR RESTRICTION.*

   *ALLOWABLE TIME OF YEAR RESTRICTION IS DETERMINED BY CT DEEP-FISHERIES DIVISION AND CANNOT BE ALTERED.



GENERAL NOTES - ALL SEQUENCES

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5. WORK SHOWN ON SUGGESTED CONSTRUCTION SEQUENCE PLANS ARE A GENERAL OVERVIEW OF MAJOR CONSTRUCTION IN EACH SEQUENCE. THESE PLANS ARE NOT INTENDED TO PROVIDE A DETAILED DESCRIPTION OF ALL WORK WHICH MAY BE REQUIRED FOR PROPER COMPLETION OF THE PROJECT.
6. ALL CONSTRUCTION IS SUBJECT TO LIMITATIONS AND REQUIREMENTS SPECIFIED UNDER MAINTENANCE AND PROTECTION OF TRAFFIC AND PROSECUTION AND PROGRESS

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_STG-03.dgn

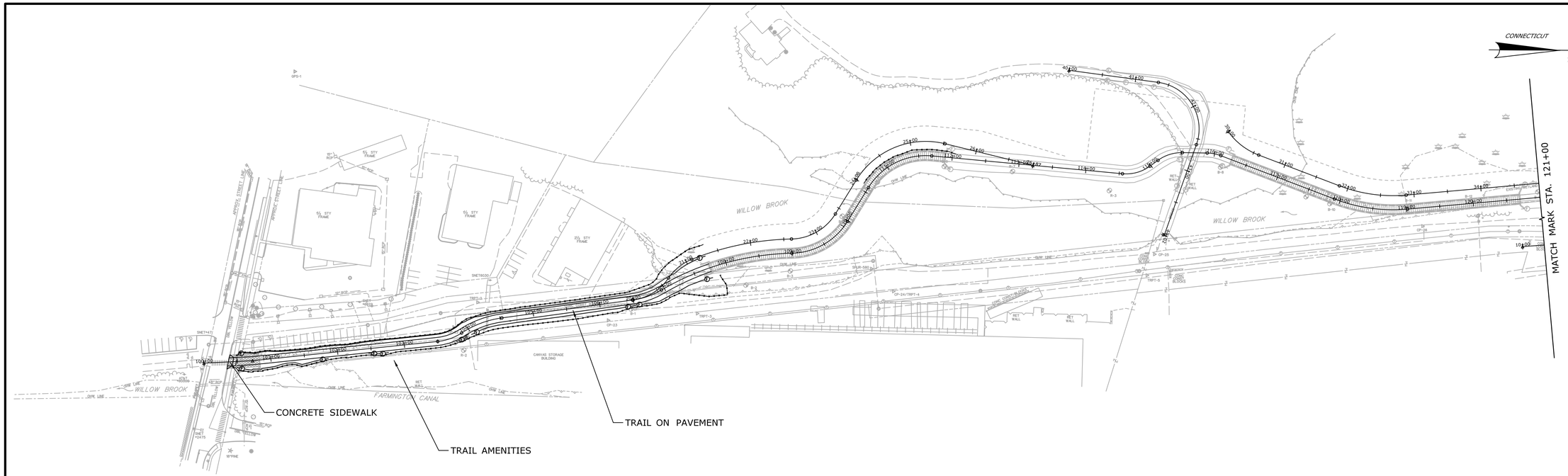
SIGNATURE/
BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE: CONSTRUCTION SEQUENCE 3

PROJECT NO. 25-145
DRAWING NO. STG-03
SHEET NO.

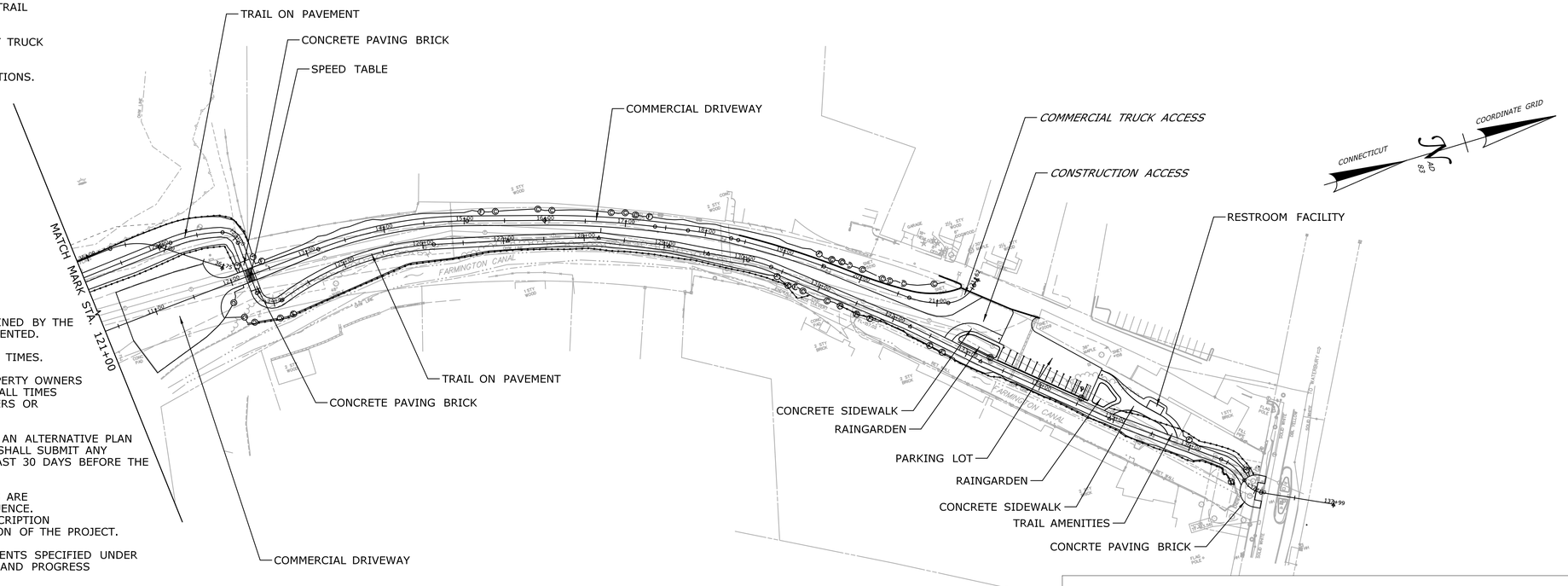


SEQUENCE 4

1. INSTALL CONCRETE PAVERS, CONSTRUCT AND PAVE SECTION OF TRAIL BETWEEN BOARDWALK AND COMMERCIAL DRIVEWAY
2. PAVE COMMERCIAL DRIVEWAY, INSTALL SPEED TABLE, AND DIVERT TRUCK TRAFFIC ONTO COMPLETED DRIVEWAY.
3. INSTALL RESTROOM FACILITY FOUNDATION AND UTILITY CONNECTIONS.
4. CONSTRUCT AND PAVE REMAINING TRAIL SECTIONS BEYOND BOARDWALK, AND PARKING LOT.
5. INSTALL RESTROOM FACILITY AND TRAIL AMENITIES.

GENERAL NOTES - ALL SEQUENCES

1. EACH SEQUENCE SHALL BE FUNCTIONALLY COMPLETE, AS DETERMINED BY THE ENGINEER, BEFORE ANY SUBSEQUENT SEQUENCES MAY BE IMPLEMENTED.
2. ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
3. CONSTRUCTION DRIVES SHALL BE COORDINATED WITH THE PROPERTY OWNERS AND TEMPORARY ACCESS TO DRIVES SHALL BE MAINTAINED AT ALL TIMES UNLESS PRIOR ARRANGEMENTS ARE MADE WITH PROPERTY OWNERS OR BUSINESS PROPRIETORS.
4. THE SEQUENCE OF CONSTRUCTION SHALL BE FOLLOWED UNLESS AN ALTERNATIVE PLAN IS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED VARIATIONS TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS BEFORE THE NEXT SCHEDULED SEQUENCE CHANGE.
5. WORK SHOWN ON SUGGESTED CONSTRUCTION SEQUENCE PLANS ARE A GENERAL OVERVIEW OF MAJOR CONSTRUCTION IN EACH SEQUENCE. THESE PLANS ARE NOT INTENDED TO PROVIDE A DETAILED DESCRIPTION OF ALL WORK WHICH MAY BE REQUIRED FOR PROPER COMPLETION OF THE PROJECT.
6. ALL CONSTRUCTION IS SUBJECT TO LIMITATIONS AND REQUIREMENTS SPECIFIED UNDER MAINTENANCE AND PROTECTION OF TRAFFIC AND PROSECUTION AND PROGRESS



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_STG-04.dgn

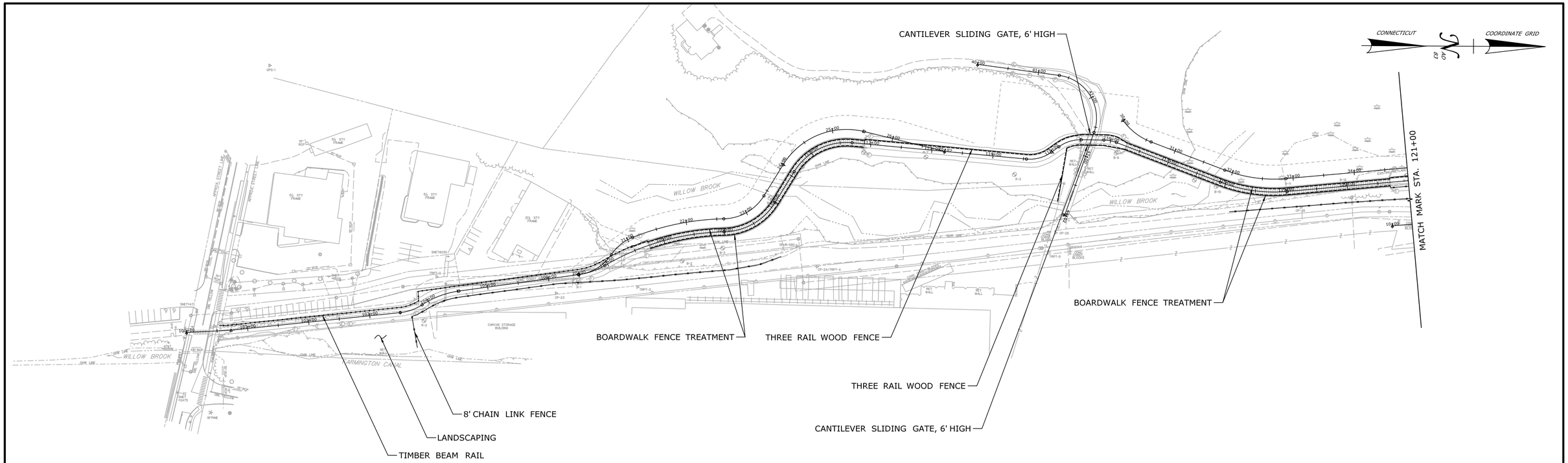
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

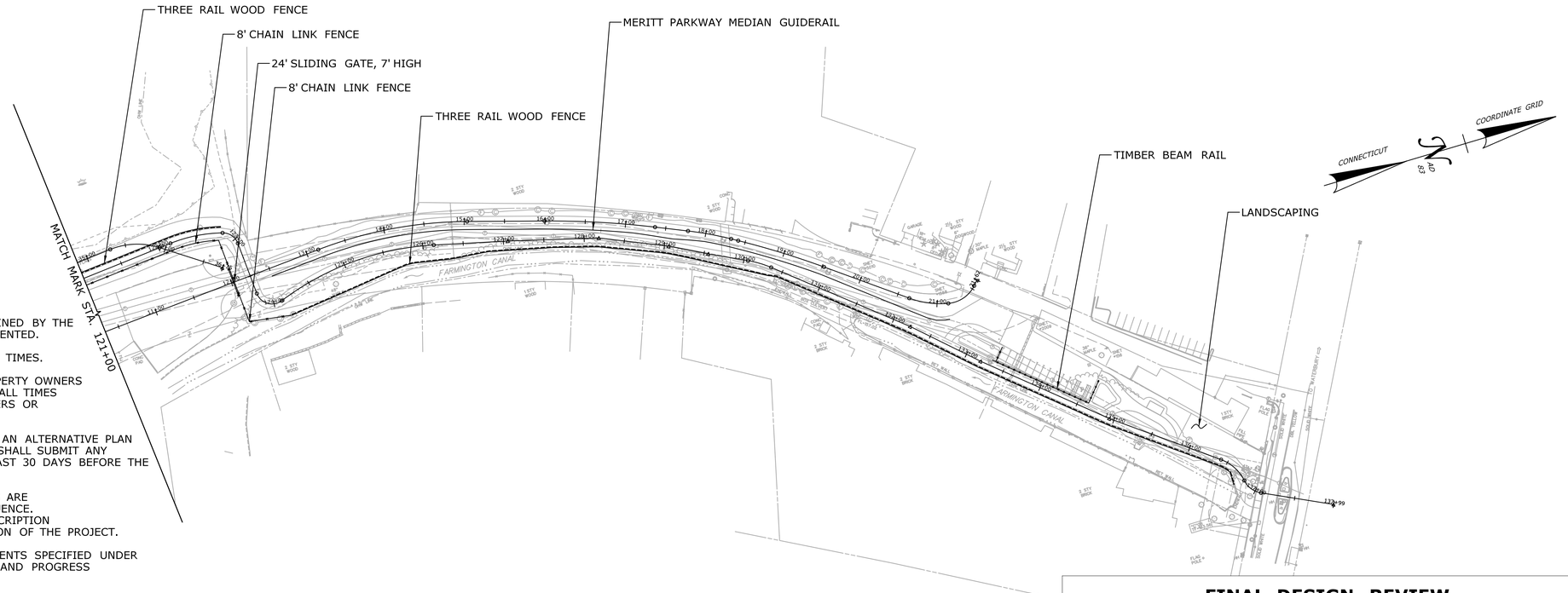
DRAWING TITLE: CONSTRUCTION SEQUENCE 4

PROJECT NO. 25-145
DRAWING NO. STG-04
SHEET NO.



SEQUENCE 5

1. INSTALL ALL FENCE TREATMENTS
2. FINISH SEEDING, GRADING AND LANDSCAPING. SEE SHEETS LDS-## TO LDS-## FOR DETAIL



GENERAL NOTES - ALL SEQUENCES

1. EACH SEQUENCE SHALL BE FUNCTIONALLY COMPLETE, AS DETERMINED BY THE ENGINEER, BEFORE ANY SUBSEQUENT SEQUENCES MAY BE IMPLEMENTED.
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FINAL DESIGN REVIEW

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: **NAI**
CHECKED BY: **VS**
SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

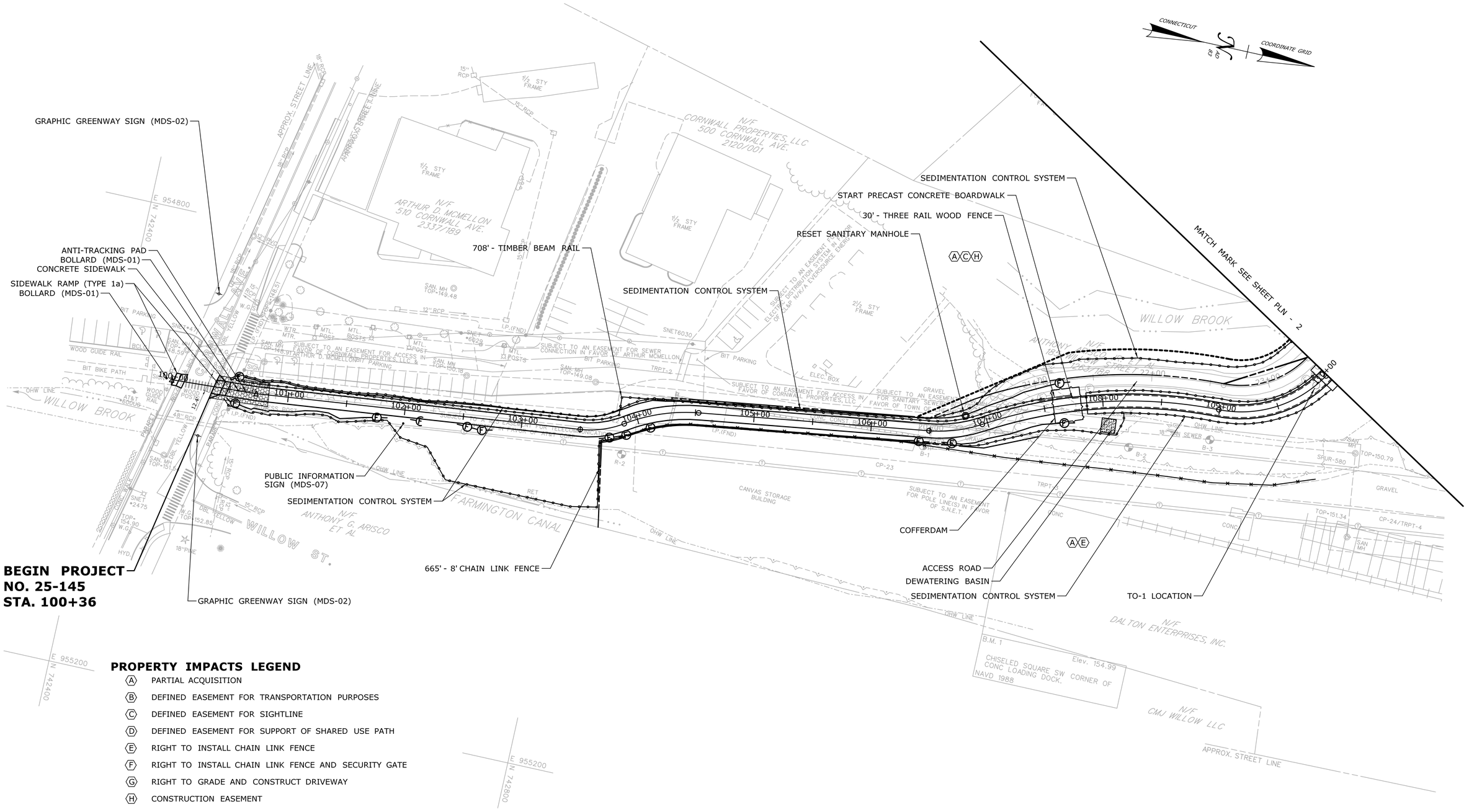
Filename: ...\Plan\HW_MSH_STG-05.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY:

PROJECT TITLE: **FARMINGTON CANAL HERITAGE TRAIL EXTENSION**

TOWN: **CHESHIRE**
DRAWING TITLE: **CONSTRUCTION SEQUENCE 5**

PROJECT NO. **25-145**
DRAWING NO. **STG-05**
SHEET NO.



PROPERTY IMPACTS LEGEND

- (A) PARTIAL ACQUISITION
- (B) DEFINED EASEMENT FOR TRANSPORTATION PURPOSES
- (C) DEFINED EASEMENT FOR SIGHTLINE
- (D) DEFINED EASEMENT FOR SUPPORT OF SHARED USE PATH
- (E) RIGHT TO INSTALL CHAIN LINK FENCE
- (F) RIGHT TO INSTALL CHAIN LINK FENCE AND SECURITY GATE
- (G) RIGHT TO GRADE AND CONSTRUCT DRIVEWAY
- (H) CONSTRUCTION EASEMENT

FINAL DESIGN REVIEW

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Plotted Date: 7/1/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

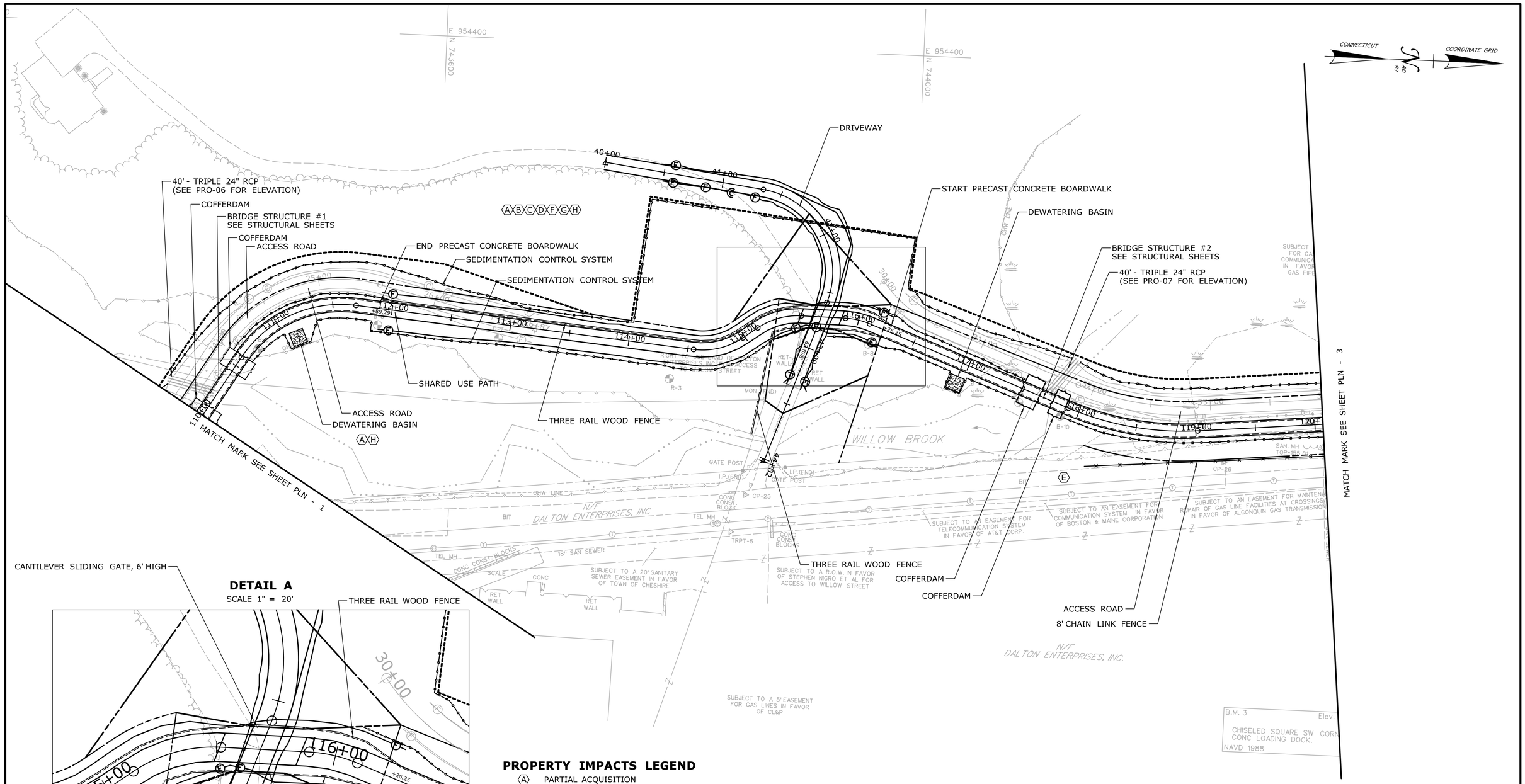
Filename: ...\Plan\HW_MSH_PLN-1.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: TOWN OF CHESHIRE
DRAWING TITLE: PLAN SHEET

PROJECT NO. 25-145
DRAWING NO. PLN-01
SHEET NO.



PROPERTY IMPACTS LEGEND

- (A) PARTIAL ACQUISITION
- (B) DEFINED EASEMENT FOR TRANSPORTATION PURPOSES
- (C) DEFINED EASEMENT FOR SIGHTLINE
- (D) DEFINED EASEMENT FOR SUPPORT OF SHARED USE PATH
- (E) RIGHT TO INSTALL CHAIN LINK FENCE
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- (G) RIGHT TO GRADE AND CONSTRUCT DRIVEWAY
- (H) CONSTRUCTION EASEMENT

FINAL DESIGN REVIEW

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-2.dgn

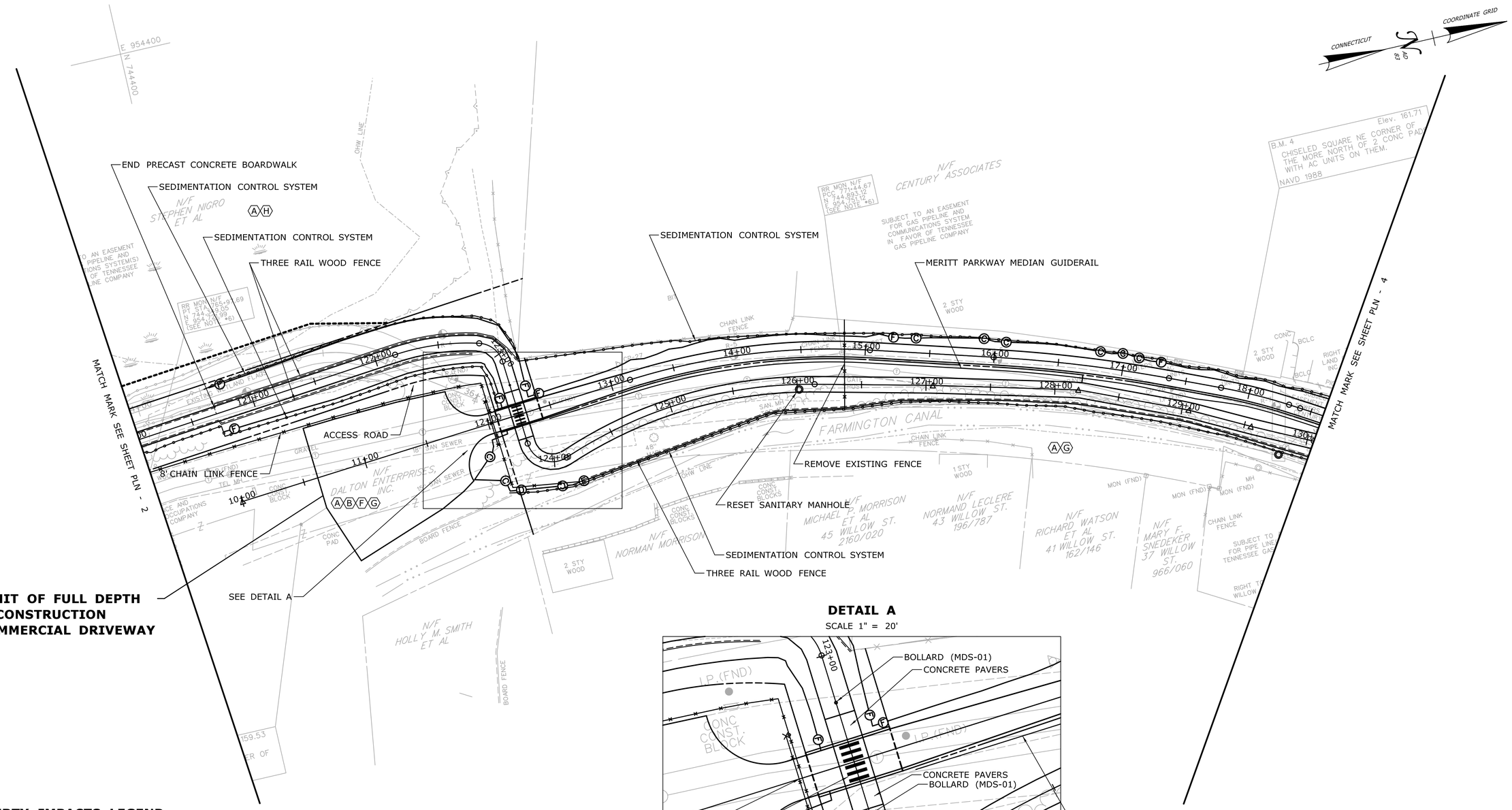
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: TOWN OF CHESHIRE

DRAWING TITLE: PLAN SHEET

PROJECT NO. 25-145
DRAWING NO. PLN-02
SHEET NO.



DETAIL A

SCALE 1" = 20'

PROPERTY IMPACTS LEGEND

- A — PARTIAL ACQUISITION
- B — DEFINED EASEMENT FOR TRANSPORTATION PURPOSES
- C — DEFINED EASEMENT FOR SIGHTLINE
- D — DEFINED EASEMENT FOR SUPPORT OF SHARED USE PATH
- E — RIGHT TO INSTALL CHAIN LINK FENCE
- F — RIGHT TO INSTALL CHAIN LINK FENCE AND SECURITY GATE
- G — RIGHT TO GRADE AND CONSTRUCT DRIVEWAY
- H — CONSTRUCTION EASEMENT

FINAL DESIGN REVIEW

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-3.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: TOWN OF CHESHIRE

DRAWING TITLE: PLAN SHEET

PROJECT NO. 25-145
DRAWING NO. PLN-03
SHEET NO.

END STATE PROJECT 0025-0145
STA. 137+06

MATCH MARK SEE SHEET PLN - 3

CURB VALVE
WATER METER, SEE MDS-10 FOR DETAIL
CONNECT PIPE TO EXISTING MANHOLE
4" PVC INV. IN 153.03
EXIST. INV. IN 151.21
EXIST. INV. OUT 151.04
UTILITY CROSSING
200' - 1" COPPER PIPE (TYPE K)
130' - 4" PVC SEWER
S = 1/4" PER FT

CUT BITUMINOUS CONCRETE PAVEMENT
LIMIT OF FULL DEPTH RECONSTRUCTION COMMERCIAL DRIVEWAY
CUT BITUMINOUS CONCRETE PAVEMENT
UTILITY CROSSING
SEDIMENTATION CONTROL SYSTEM

UTILITY POLE #2009
UTILITY POLE #1560
SEE DETAIL A
CONDUIT SWEEPS/STUB UPS SHALL BE RGSC (TYP.)
SEDIMENTATION CONTROL SYSTEM

2 WAY CONDUIT IN TRENCH:
(1) 3" SCHEDULE 40 PVC (POWER TO HH)
WITH PULL STRING
(1) 3" SCHEDULE 40 PVC (SPARE TO BUILDING)
WITH PULL STRING
SEE DETAIL B

GAS METER, CONTRACTER SHALL CALL-BEFORE-YOU-DIG AND EXCAVATE WITH CAUTION IN THIS AREA. COMPLY WITH LOCAL UTILITIES FOR CROSSING ANY GAS LINES.

MERITT PARKWAY MEDIAN GUIDERAIL
RESET SANITARY MANHOLE
RESET SANITARY MANHOLE
CONDUIT SWEEPS/STUB UPS SHALL BE RGSC (TYP.)
THREE RAIL WOOD FENCE
RESET SANITARY MANHOLE
CONDUIT SWEEPS/STUB UPS SHALL BE RGSC (TYP.)

DETAIL A
SCALE 1" = 20'

CONCRETE SIDEWALK
RAIN GARDEN (SEE LND-04)
TIMBER BEAM RAIL
BOLLARD (MDS-01)
THREE RAIL WOOD FENCE
PARKING LOT
131' - BCLC
BOLLARD (MDS-01)
RAIN GARDEN (SEE LND-04)
TIMBER BEAM RAIL
CONCRETE SIDEWALK
UTILITY APPROVED SERVICE METER SEE MDS-08
RESTROOM FACILITY

GRAPHIC GREENWAY SIGN (MDS-02)
RESET SANITARY MANHOLE
BOLLARD (MDS-01)
RESET GRANITE STONE CURBING
CUT BIT. CONC. PAVT
CONCRETE PAVING BRICK, MATCH EXISTING PATTERN
GRAPHIC GREENWAY SIGN (MDS-02)
RESET GRANITE STONE CURBING

DETAIL B
SCALE 1" = 20'

REMOVE AND RELOCATE ORNAMENTAL LIGHT STANDARD & CONC. FOUNDATION
RESET CONCRETE HANDHOLE
CONCRETE PAVING BRICK (SEE MDS-06 FOR DETAIL)
UTILITY APPROVED HANDHOLE. SPARE CONDUIT SHALL BYPASS THE HANDHOLE AND RUN DIRECTLY TO THE BUILDING. CAP SPARE CONDUIT 18' ADJACENT TO METER SOCKET.
1 WAY CONDUIT IN TRENCH:
(1) 3" SCHEDULE 40 PVC (POWER TO BUILDING) WITH PULL STRING

PROPERTY IMPACTS LEGEND

- (A) PARTIAL ACQUISITION
- (B) DEFINED EASEMENT FOR TRANSPORTATION PURPOSES
- (C) DEFINED EASEMENT FOR SIGHTLINE
- (D) DEFINED EASEMENT FOR SUPPORT OF SHARED USE PATH
- (E) RIGHT TO INSTALL CHAIN LINK FENCE
- (F) RIGHT TO INSTALL CHAIN LINK FENCE AND SECURITY GATE
- (G) RIGHT TO GRADE AND CONSTRUCT DRIVEWAY
- (H) CONSTRUCTION EASEMENT

FINAL DESIGN REVIEW

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

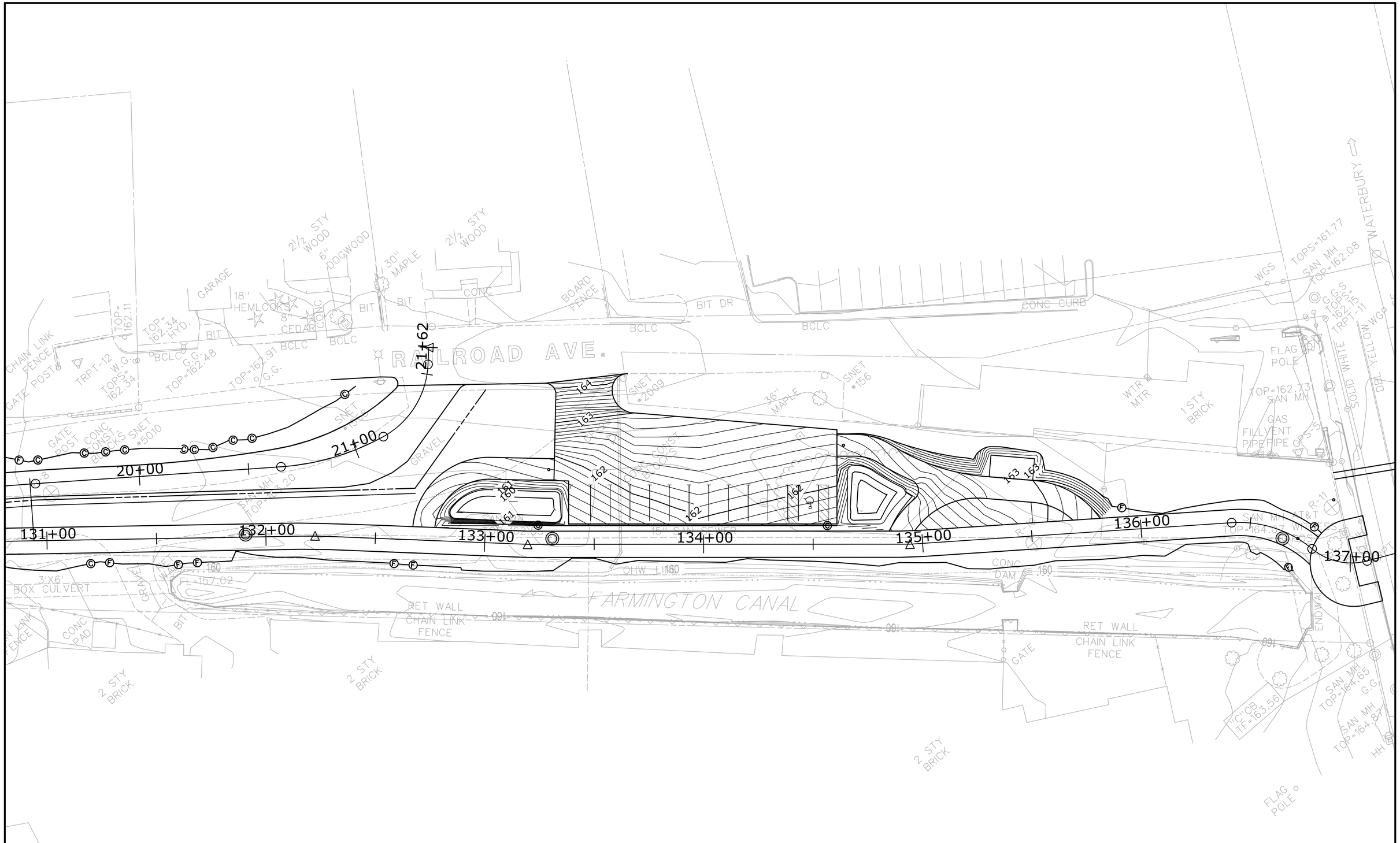
Filename: ...\Plan\HW_MSH_PLN-4.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: TOWN OF CHESHIRE
DRAWING TITLE: PLAN SHEET

PROJECT NO. 25-145
DRAWING NO. PLN-04
SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
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SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_IGP-1.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

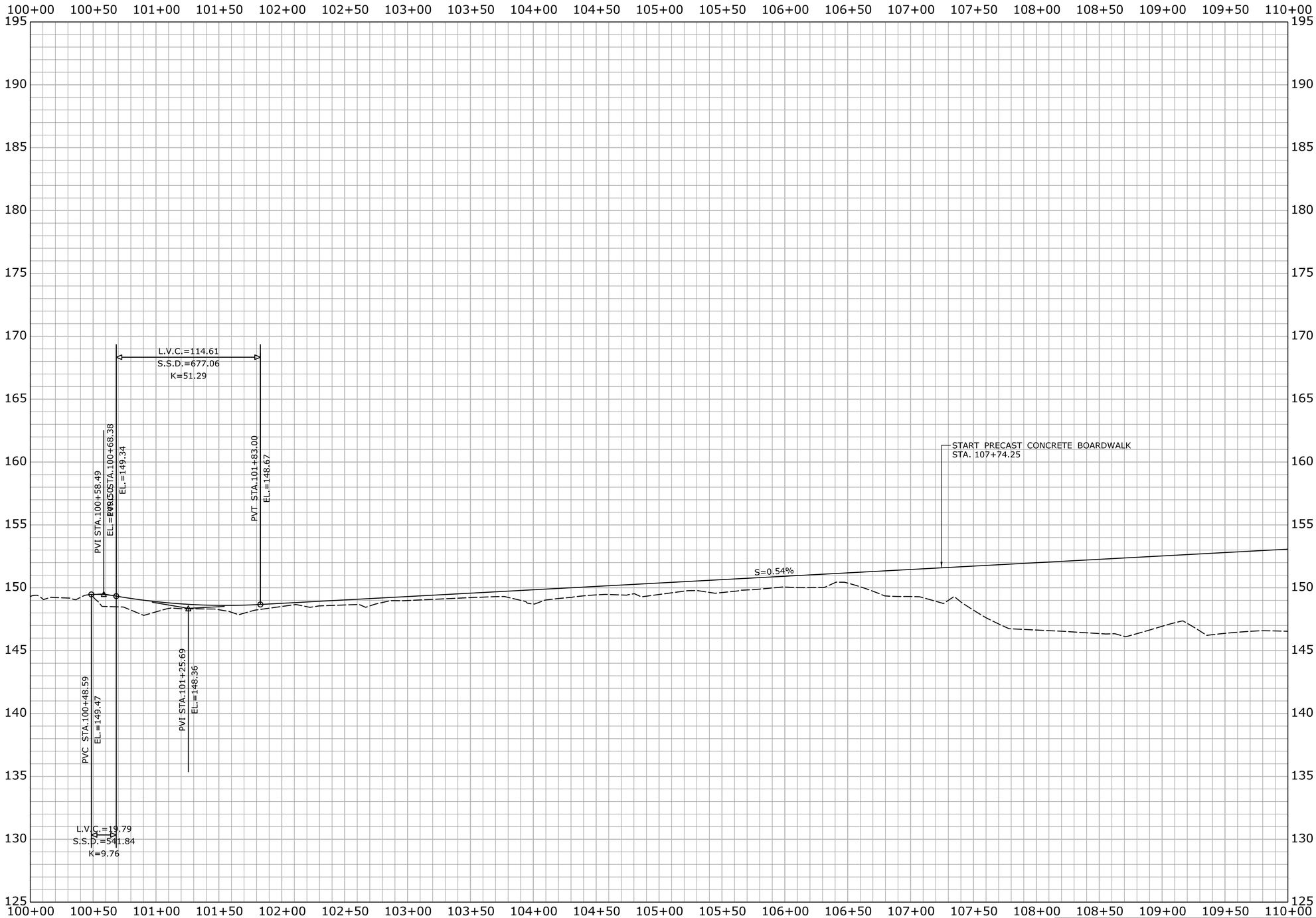
TOWN: CHESHIRE

DRAWING TITLE:
PARKING LOT
GRADING PLAN

PROJECT NO. 25-145

DRAWING NO. PLN-05

SHEET NO.



FINAL DESIGN REVIEW

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DESIGNER/DRAFTER: **NAI**

CHECKED BY: **VS**

HORIZ. SCALE IN FEET
0 40 80

VERT. SCALE IN FEET
0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\Profile\HW_MSH_PRO-1.dgn

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

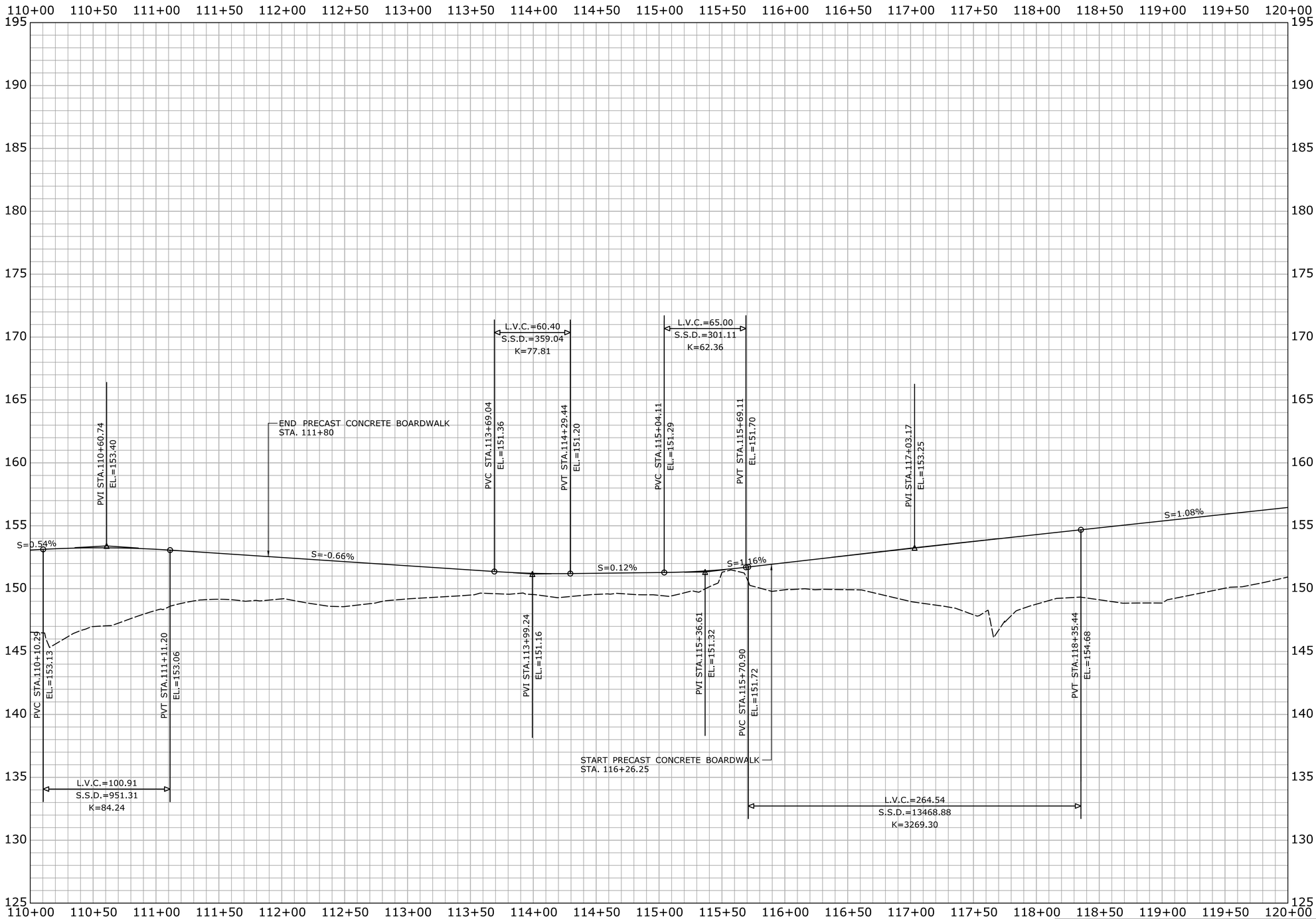
TOWN: **TOWN OF CHESHIRE**

DRAWING TITLE: **PROFILE**

PROJECT NO. **25-145**

DRAWING NO. **PRO-01**

SHEET NO.



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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: **NAI**

CHECKED BY: **VS**

HORIZ. SCALE IN FEET
0 40 80

VERT. SCALE IN FEET
0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-2.dgn

SIGNATURE/
BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

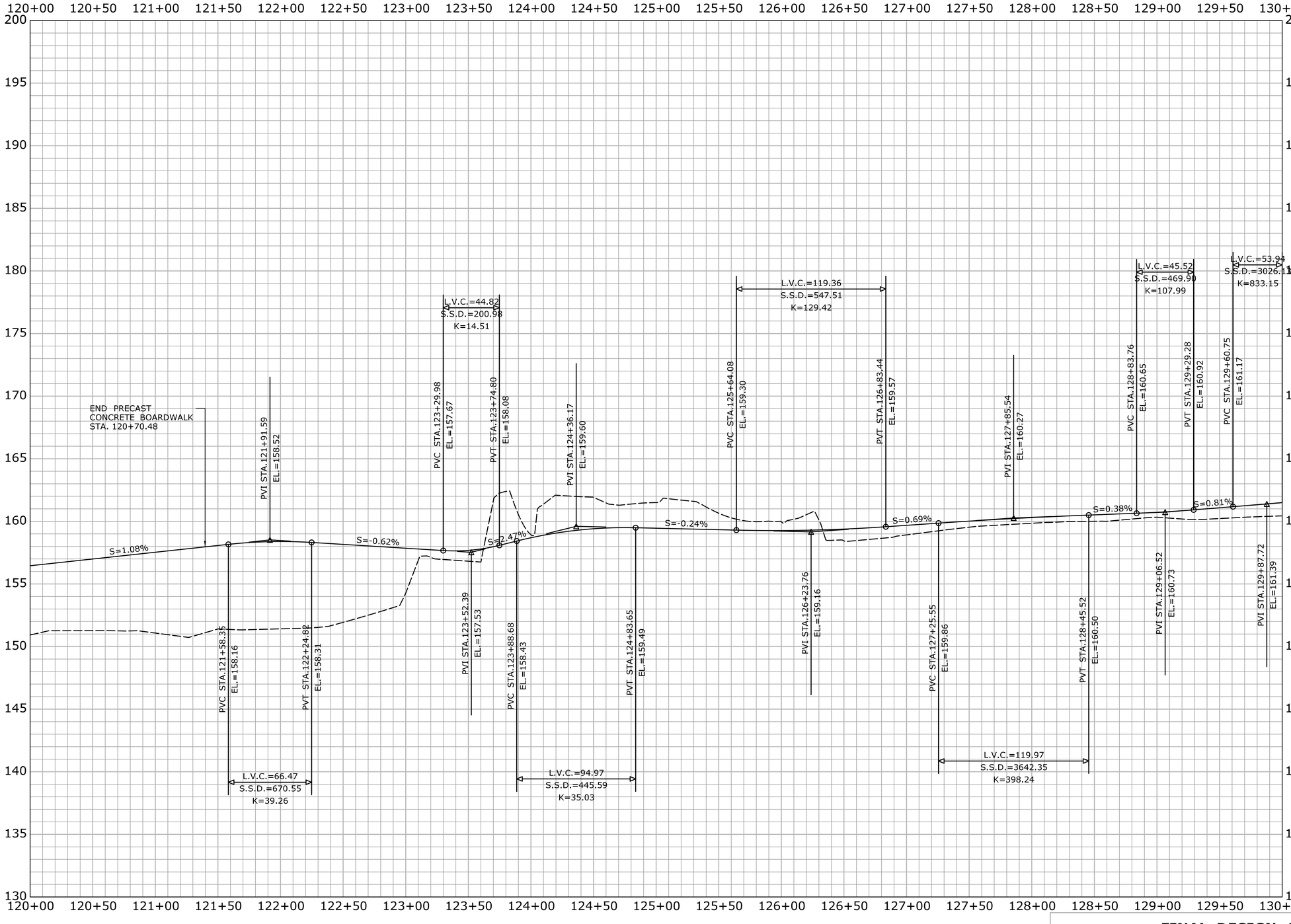
TOWN: **TOWN OF CHESHIRE**

DRAWING TITLE: **PROFILE**

PROJECT NO. **25-145**

DRAWING NO. **PRO-02**

SHEET NO.



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DESIGNER/DRAFTER: NAI

CHECKED BY: VS

HORIZ. SCALE IN FEET 0 40 80

VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-3.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

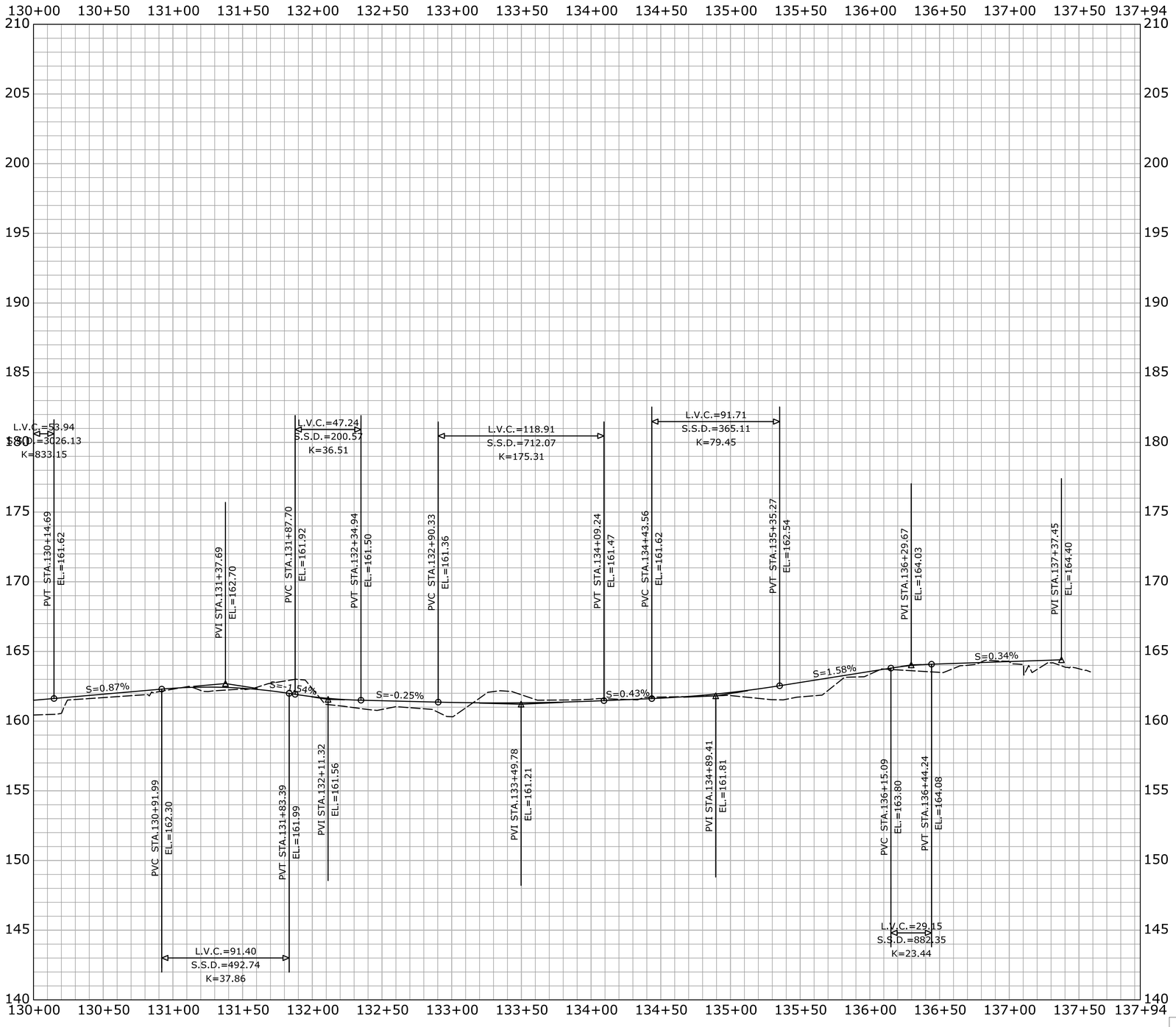
TOWN: TOWN OF CHESHIRE

DRAWING TITLE: PROFILE

PROJECT NO. 25-145

DRAWING NO. PRO-03

SHEET NO.



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CHECKED BY: **VS**

HORIZ. SCALE IN FEET
0 40 80

VERT. SCALE IN FEET
0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-4.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

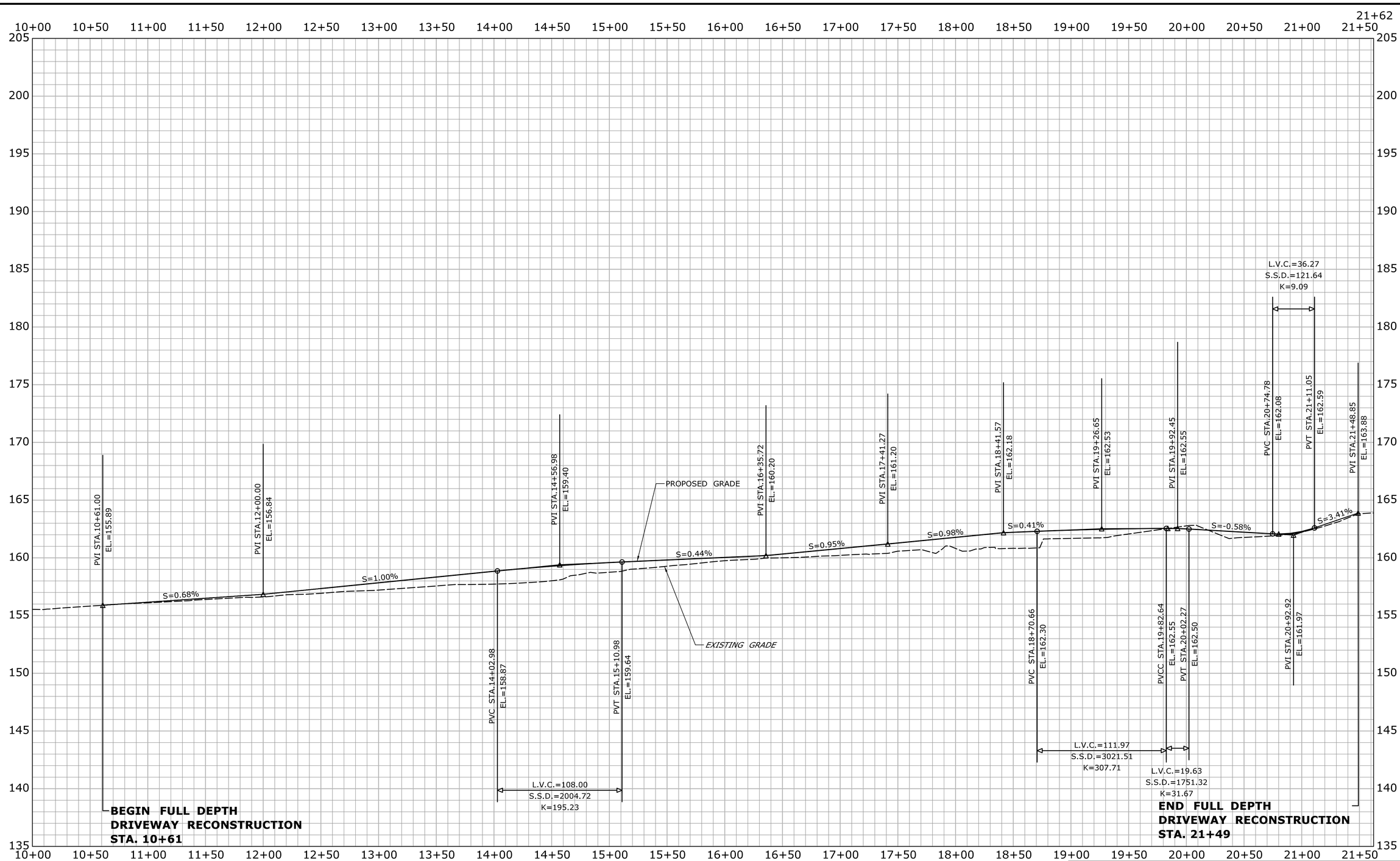
TOWN:
TOWN OF CHESHIRE

DRAWING TITLE:
PROFILE

PROJECT NO.
25-145

DRAWING NO.
PRO-04

SHEET NO.



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

HORIZ. SCALE IN FEET 0 40 80

VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-A1.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

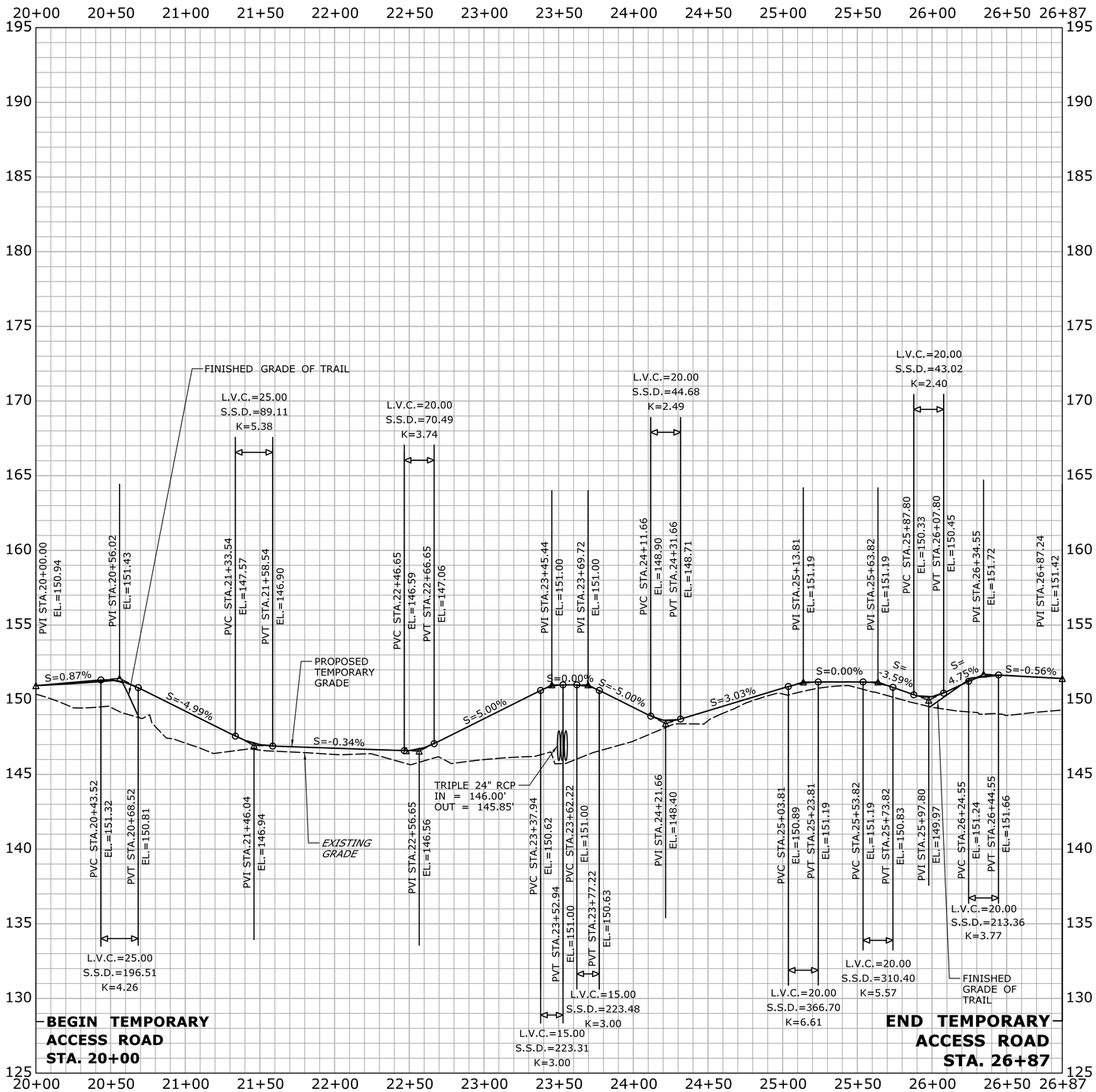
TOWN: **CHESHIRE**

DRAWING TITLE: **COMMERCIAL DRIVEWAY PROFILE**

PROJECT NO. **25-145**

DRAWING NO. **PRO-05**

SHEET NO.



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

HORIZ. SCALE IN FEET 0 40 80

VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-A2.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

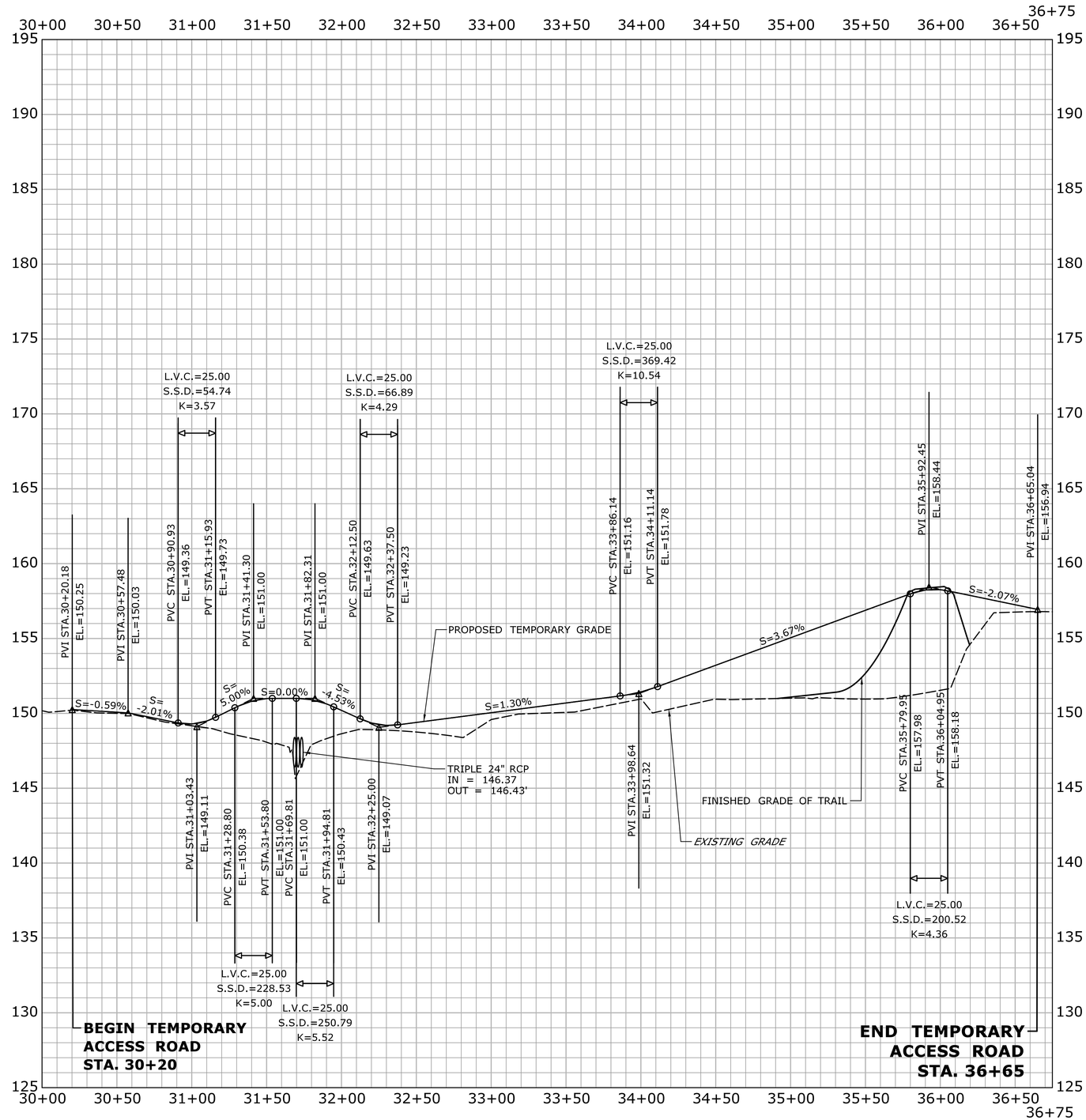
TOWN: **CHESHIRE**

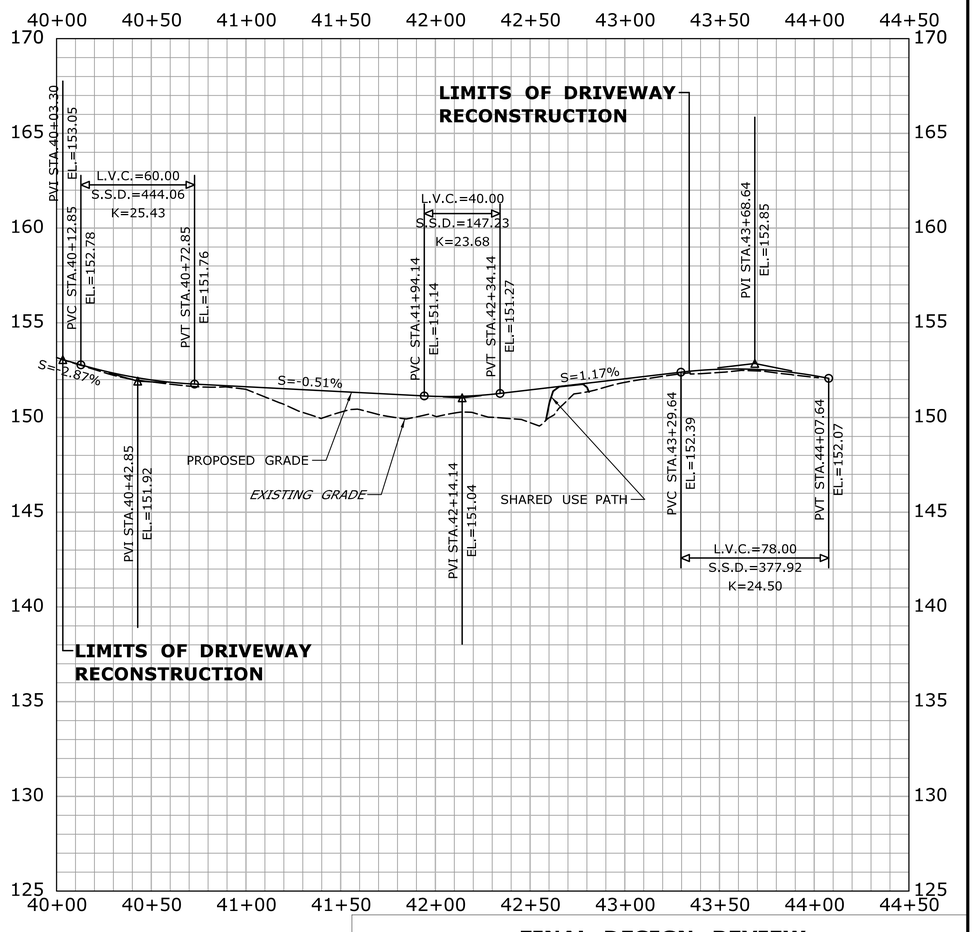
PROJECT NO. **25-145**

DRAWING NO. **PRO-06**

DRAWING TITLE: **SOUTHERN ACCESS ROAD PROFILE**

SHEET NO.





FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI/AJC

CHECKED BY: VS

HORIZ. SCALE IN FEET 0 40 80

VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-A3.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE:
NORTHERN ACCESS ROAD AND PRIVATE DRIVEWAY PROFILE

PROJECT NO. **25-145**

DRAWING NO. **PRO-07**

SHEET NO.

STA.100+00 TO STA.100+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-01**

SHEET NO.

STA.101+00 TO STA.101+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-02**

SHEET NO.

STA.102+00 TO STA.102+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

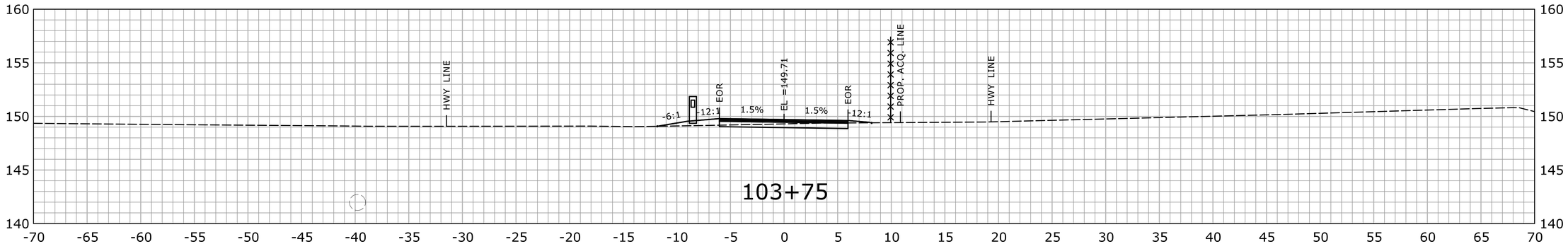
TOWN: **CHESHIRE**

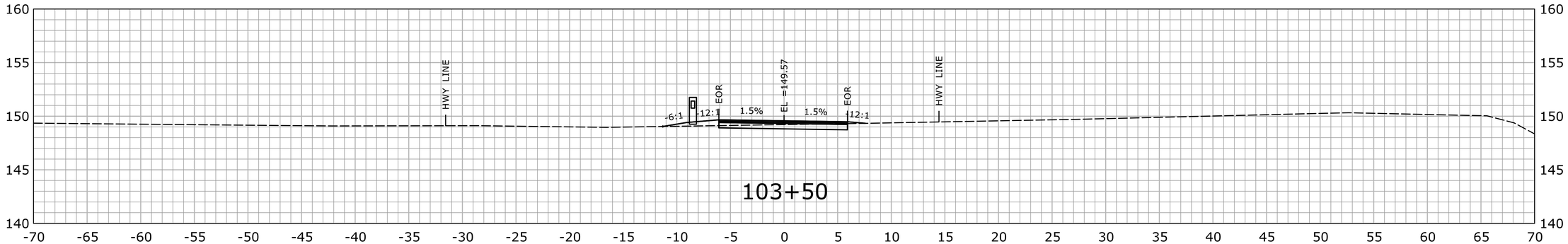
DRAWING TITLE: **CROSS SECTIONS**

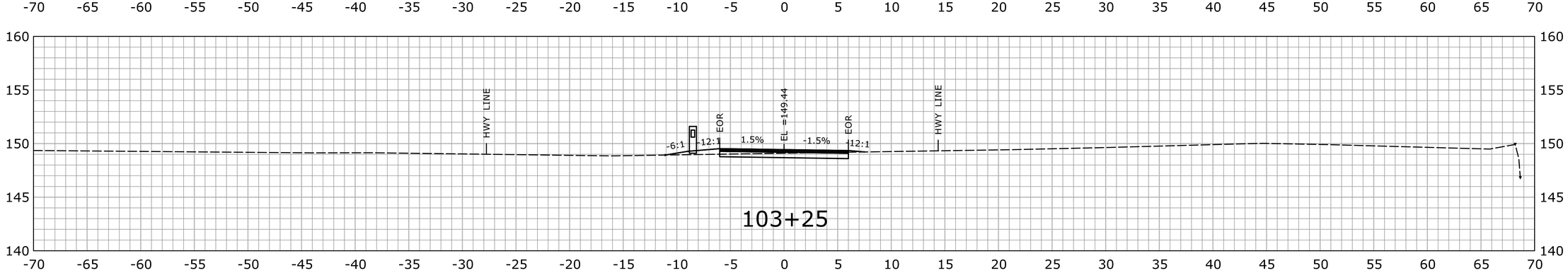
PROJECT NO. **25-145**

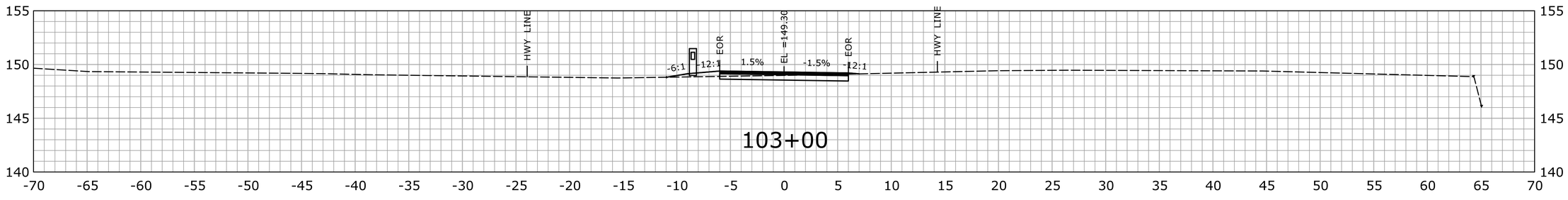
DRAWING NO. **XSC-03**

SHEET NO.









STA.103+00 TO STA.103+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

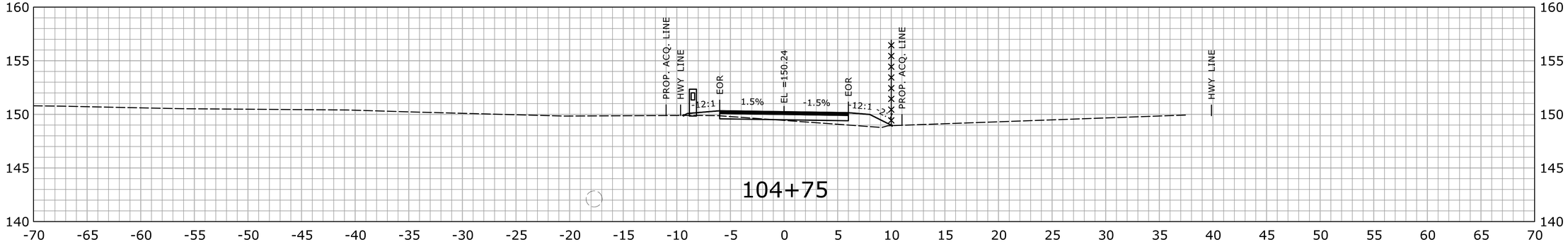
TOWN: **CHESHIRE**

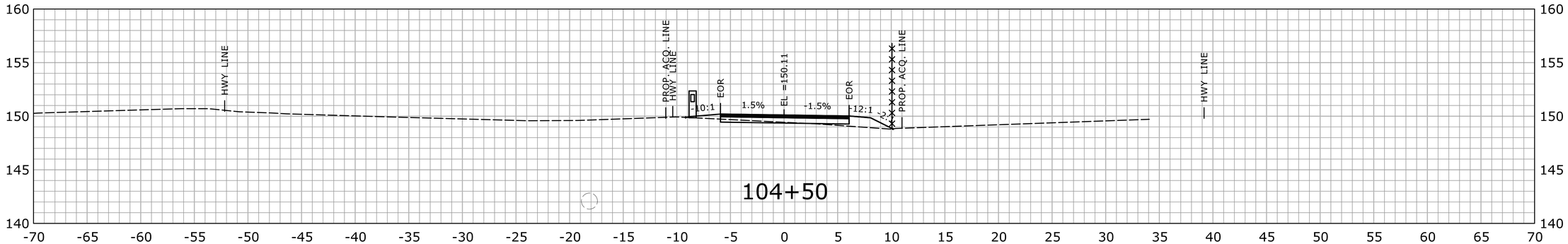
DRAWING TITLE: **CROSS SECTIONS**

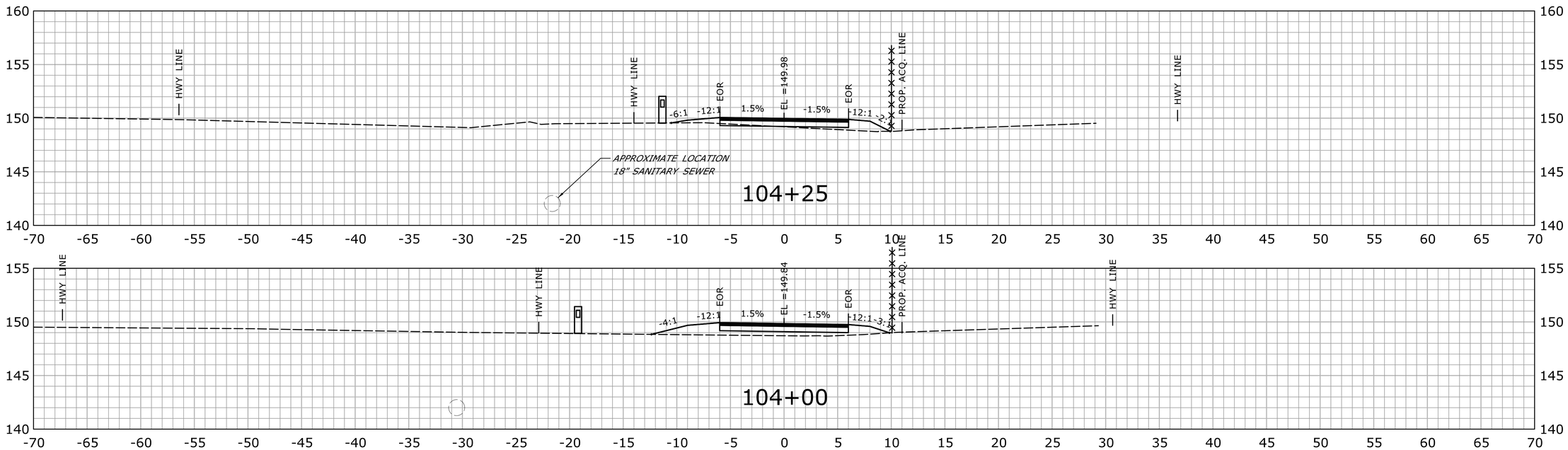
PROJECT NO. **25-145**

DRAWING NO. **XSC-04**

SHEET NO.







STA.104+00 TO STA.104+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-05**

SHEET NO.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

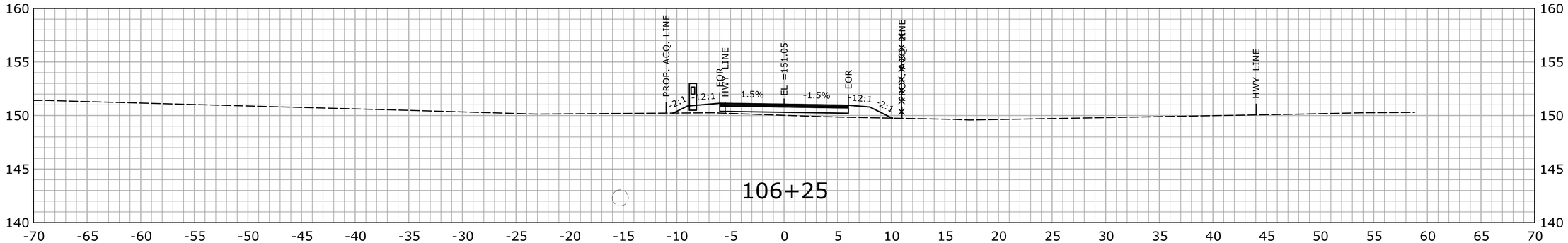
TOWN: **CHESHIRE**

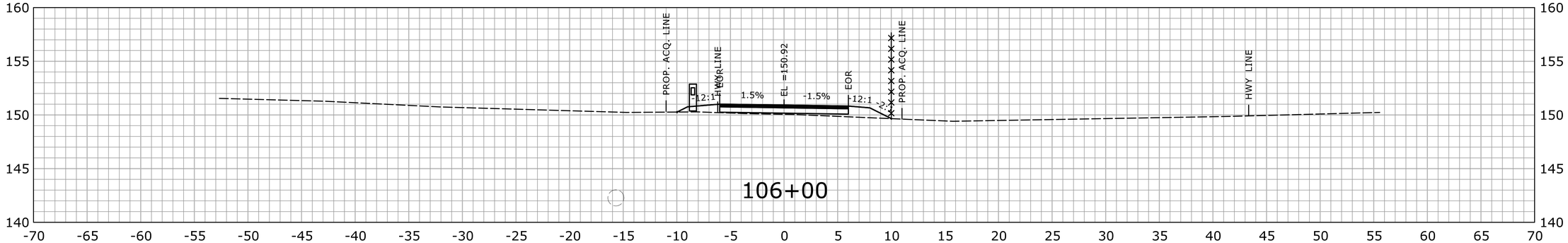
DRAWING TITLE: **CROSS SECTIONS**

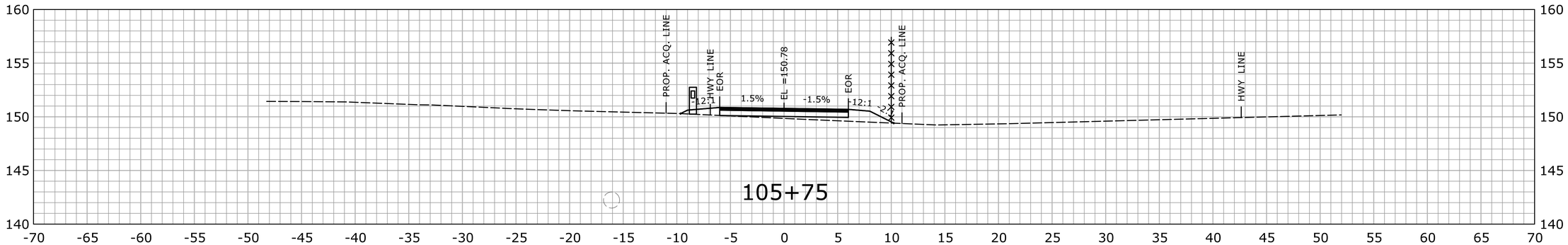
PROJECT NO. **25-145**

DRAWING NO. **XSC-06**

SHEET NO.







STA.105+75 TO STA.106+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI
CHECKED BY: VS
SCALE IN FEET 0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**
DRAWING NO. **XSC-07**
SHEET NO.

STA.106+50 TO STA.107+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

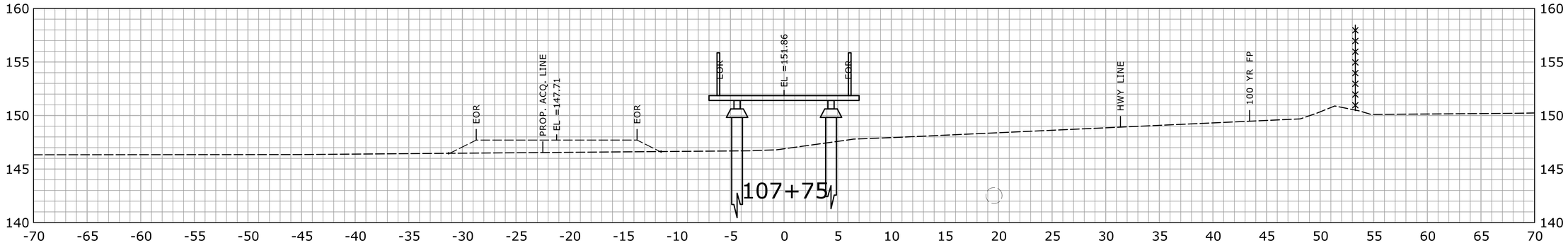
TOWN: **CHESHIRE**

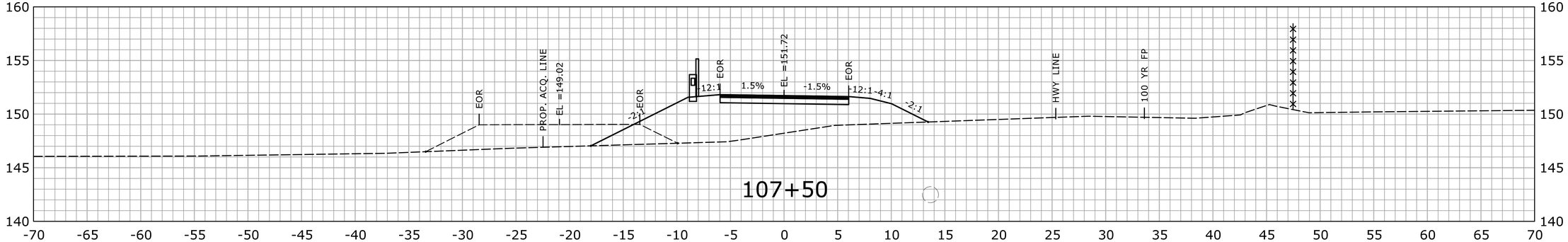
DRAWING TITLE: **CROSS SECTIONS**

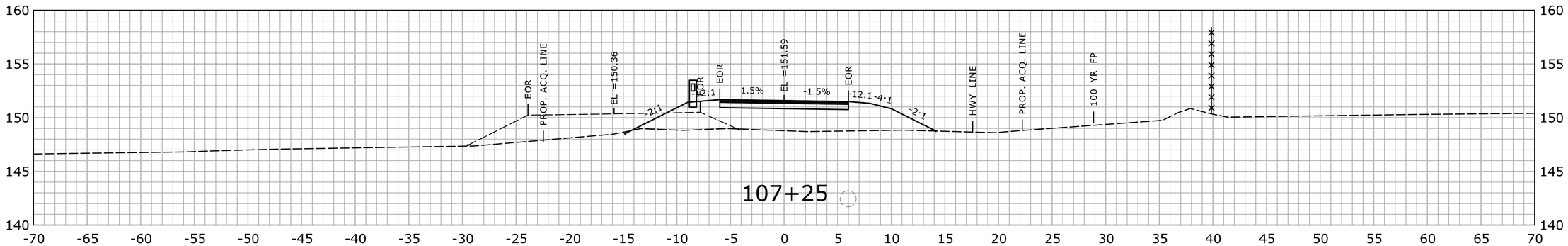
PROJECT NO. **25-145**

DRAWING NO. **XSC-08**

SHEET NO.







STA.107+25 TO STA.107+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

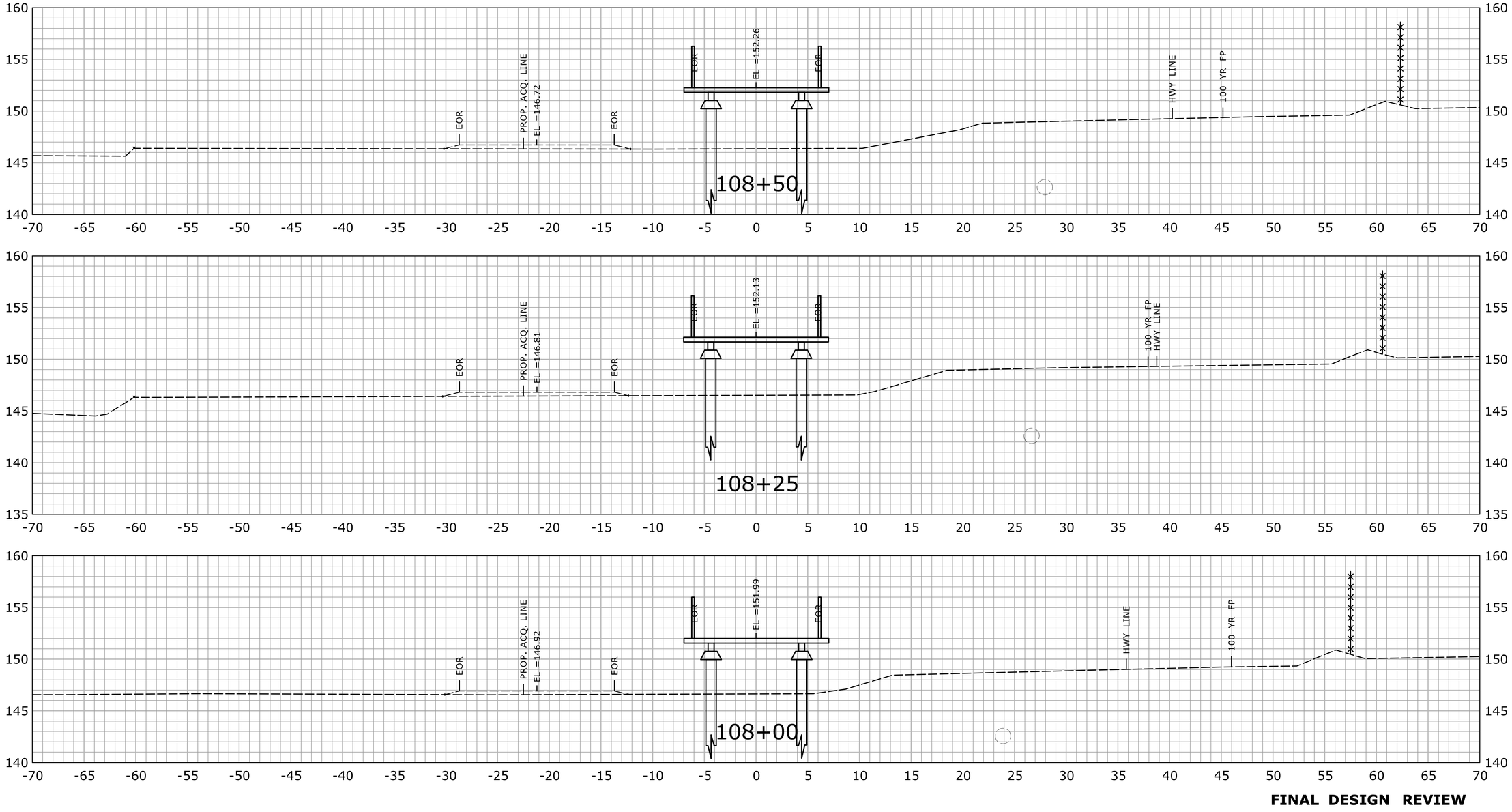
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-09**

SHEET NO.



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

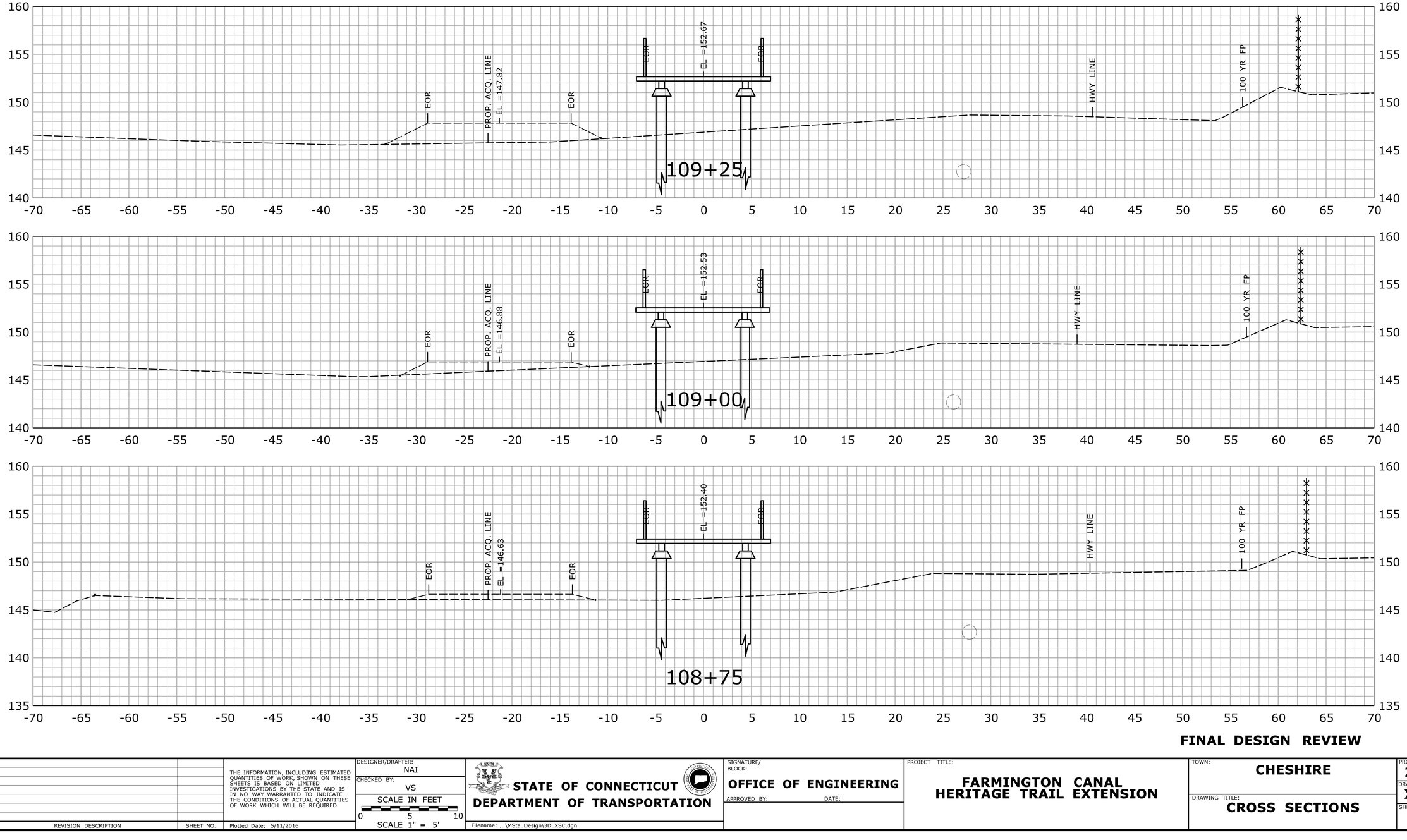
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-10**

SHEET NO.



STA.108+75 TO STA.109+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

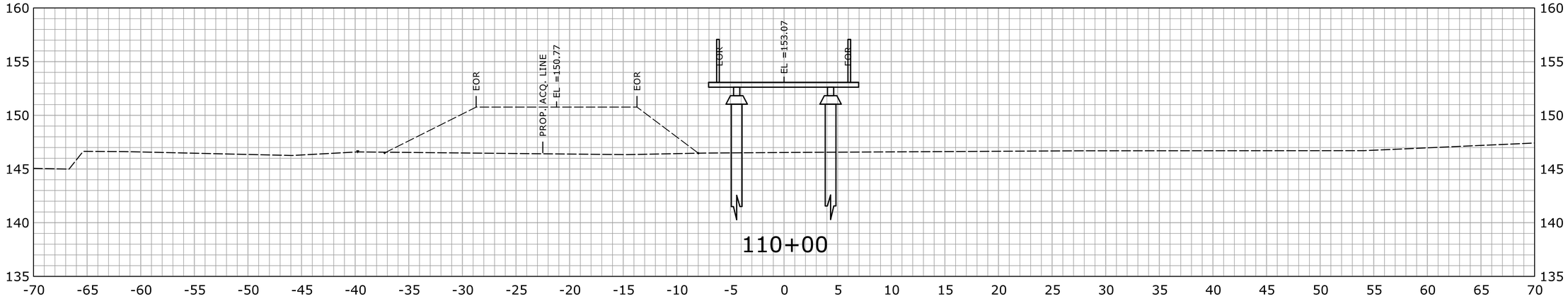
TOWN: **CHESHIRE**

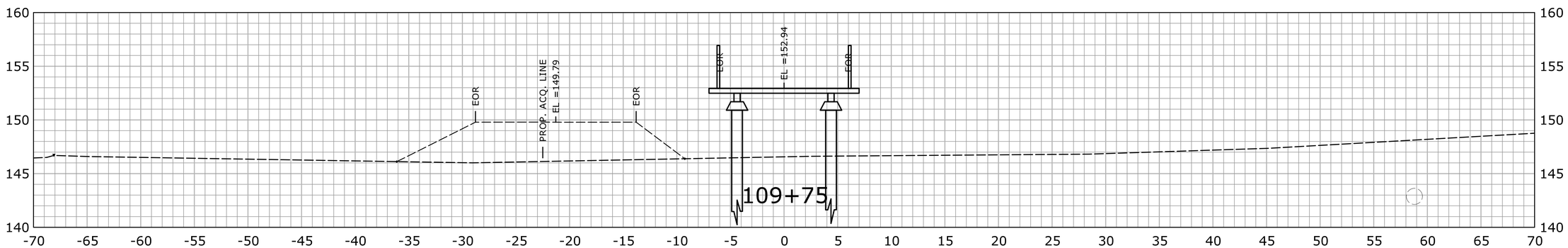
DRAWING TITLE: **CROSS SECTIONS**

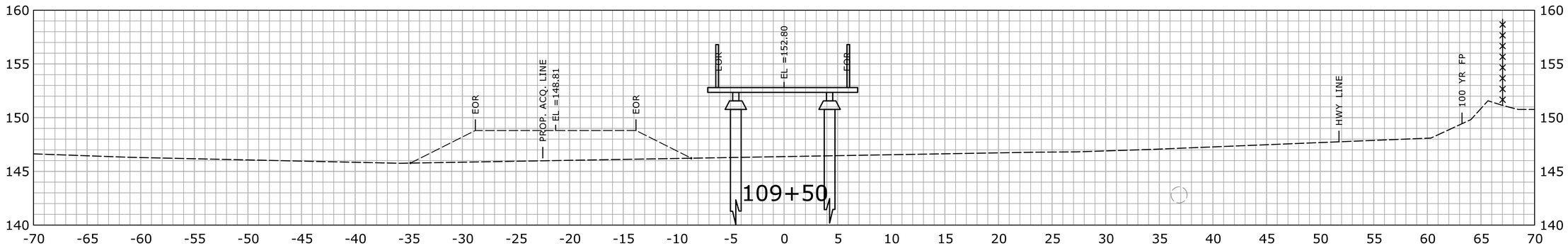
PROJECT NO. **25-145**

DRAWING NO. **XSC-11**

SHEET NO.







STA.109+50 TO STA.110+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

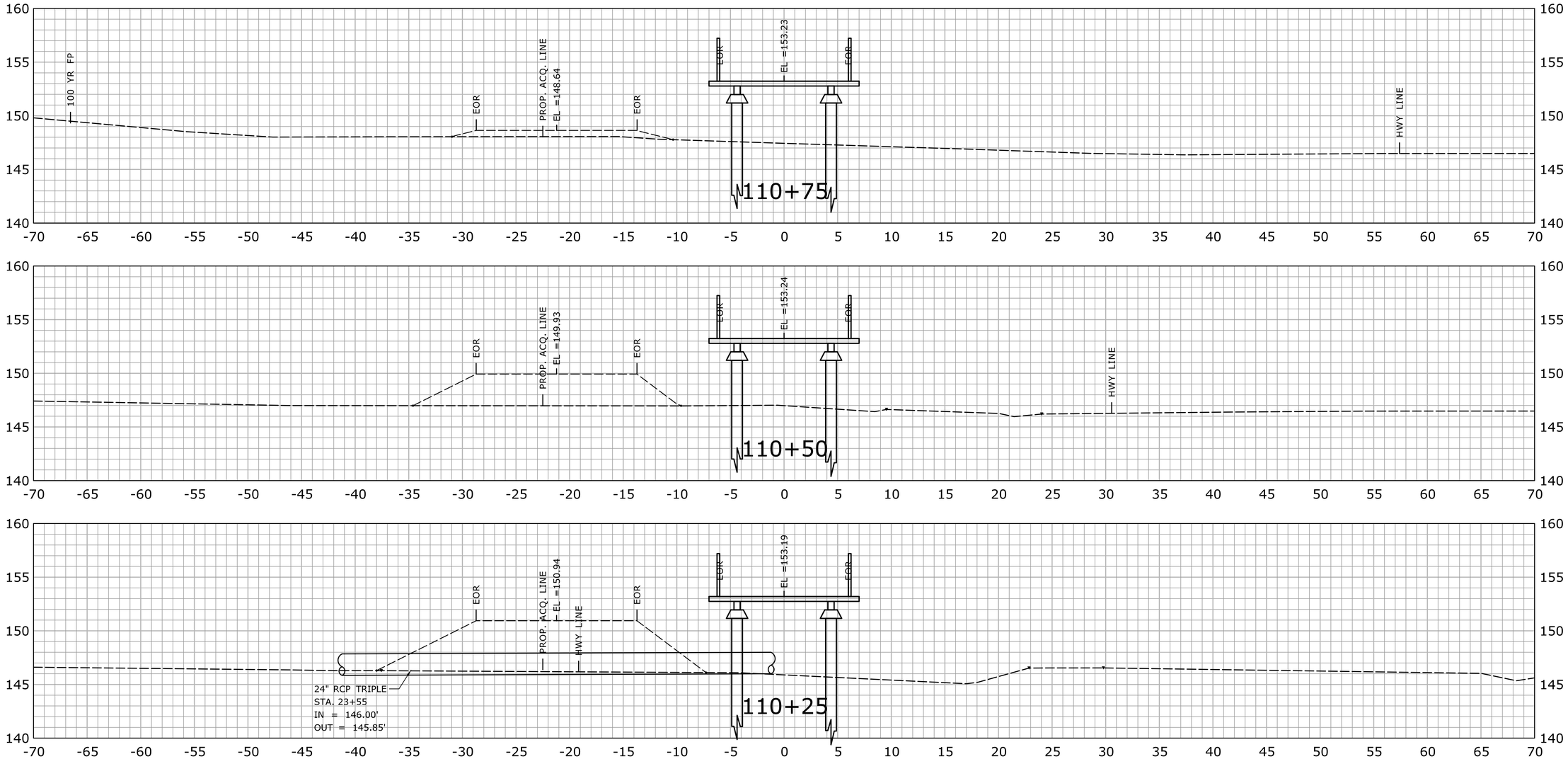
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-12**

SHEET NO.



STA.110+25 TO STA.110+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

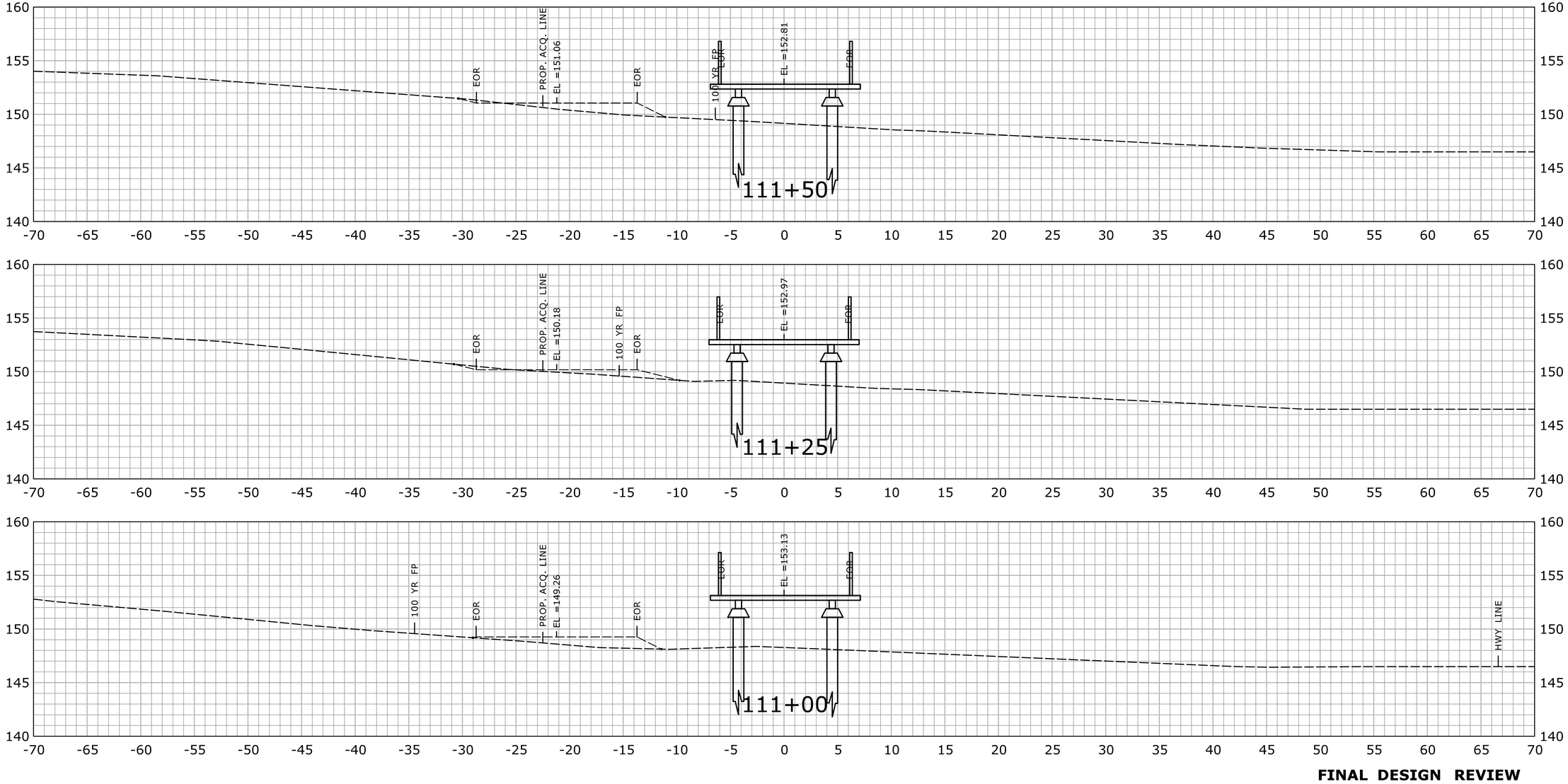
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-13**

SHEET NO.



STA.111+00 TO STA.111+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

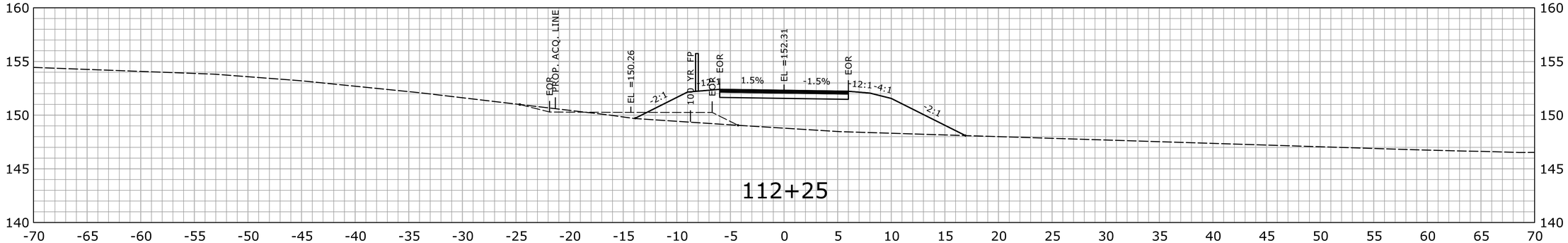
TOWN: **CHESHIRE**

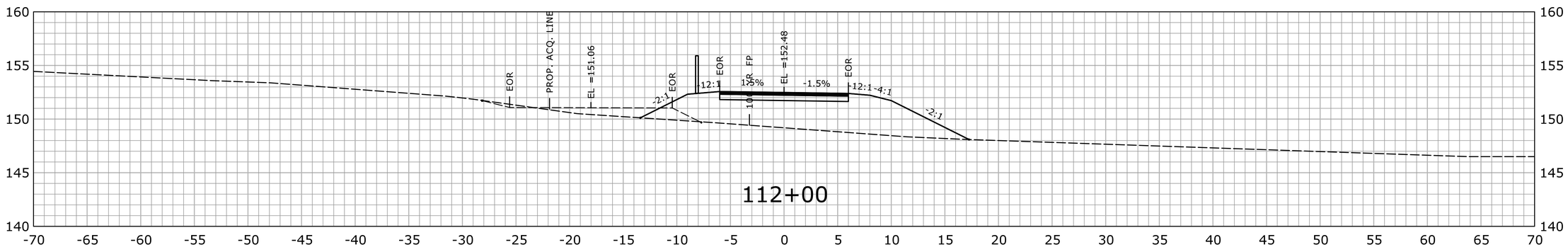
DRAWING TITLE: **CROSS SECTIONS**

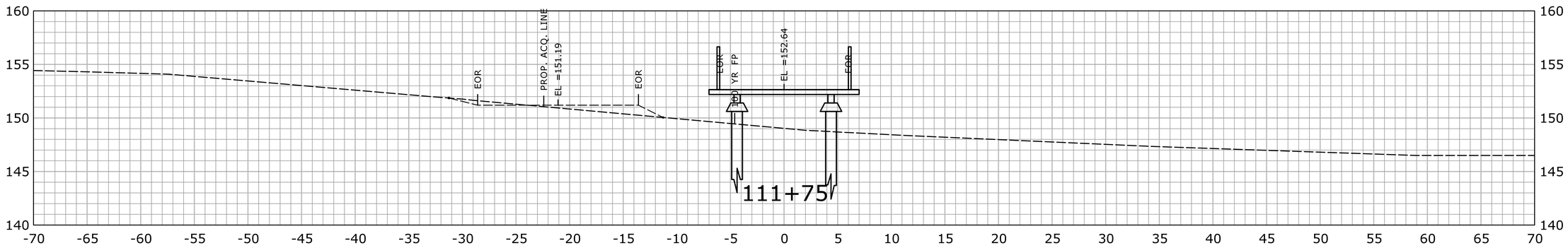
PROJECT NO. **25-145**

DRAWING NO. **XSC-14**

SHEET NO.







STA.111+75 TO STA.112+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

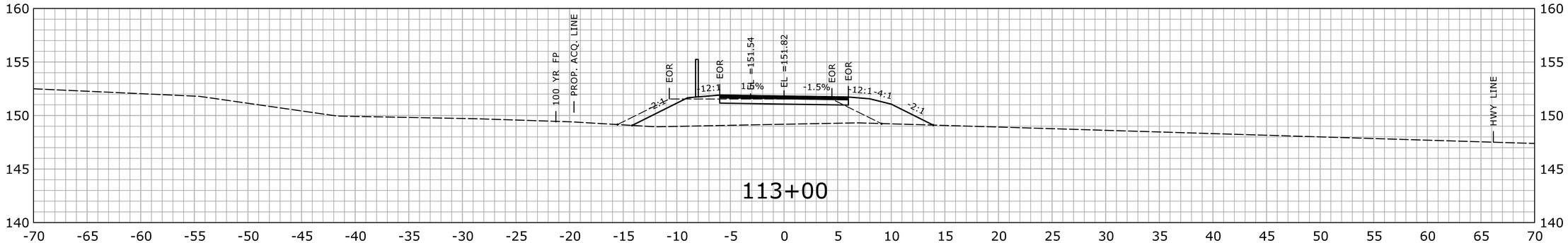
TOWN: **CHESHIRE**

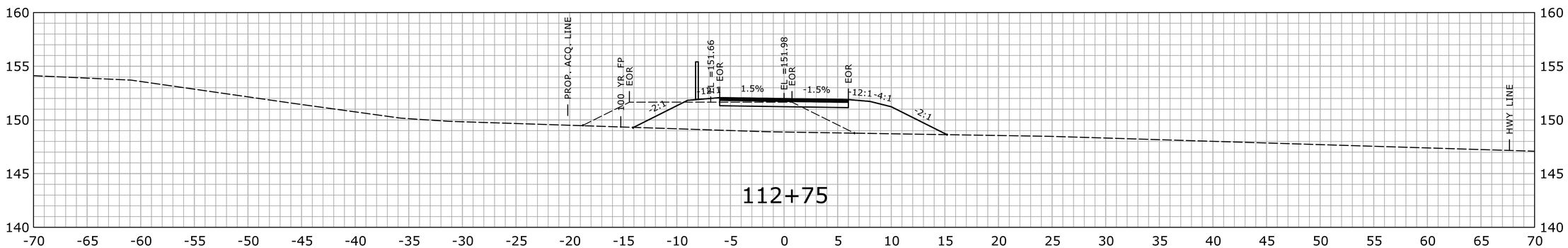
DRAWING TITLE: **CROSS SECTIONS**

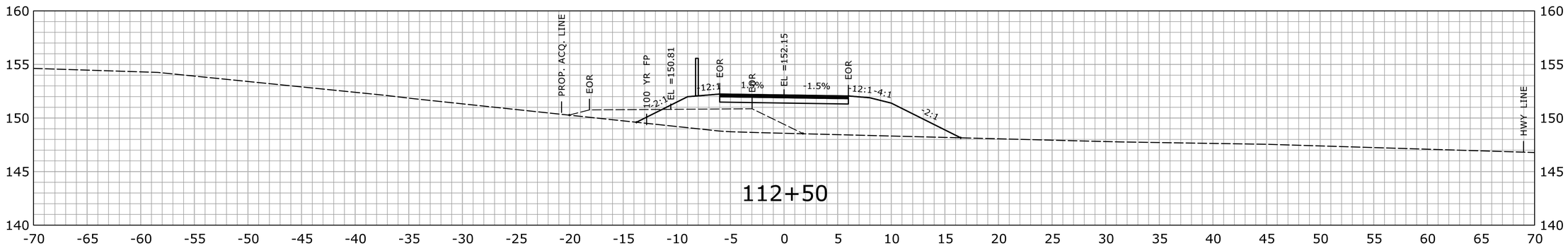
PROJECT NO. **25-145**

DRAWING NO. **XSC-15**

SHEET NO.







STA.112+50 TO STA.113+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

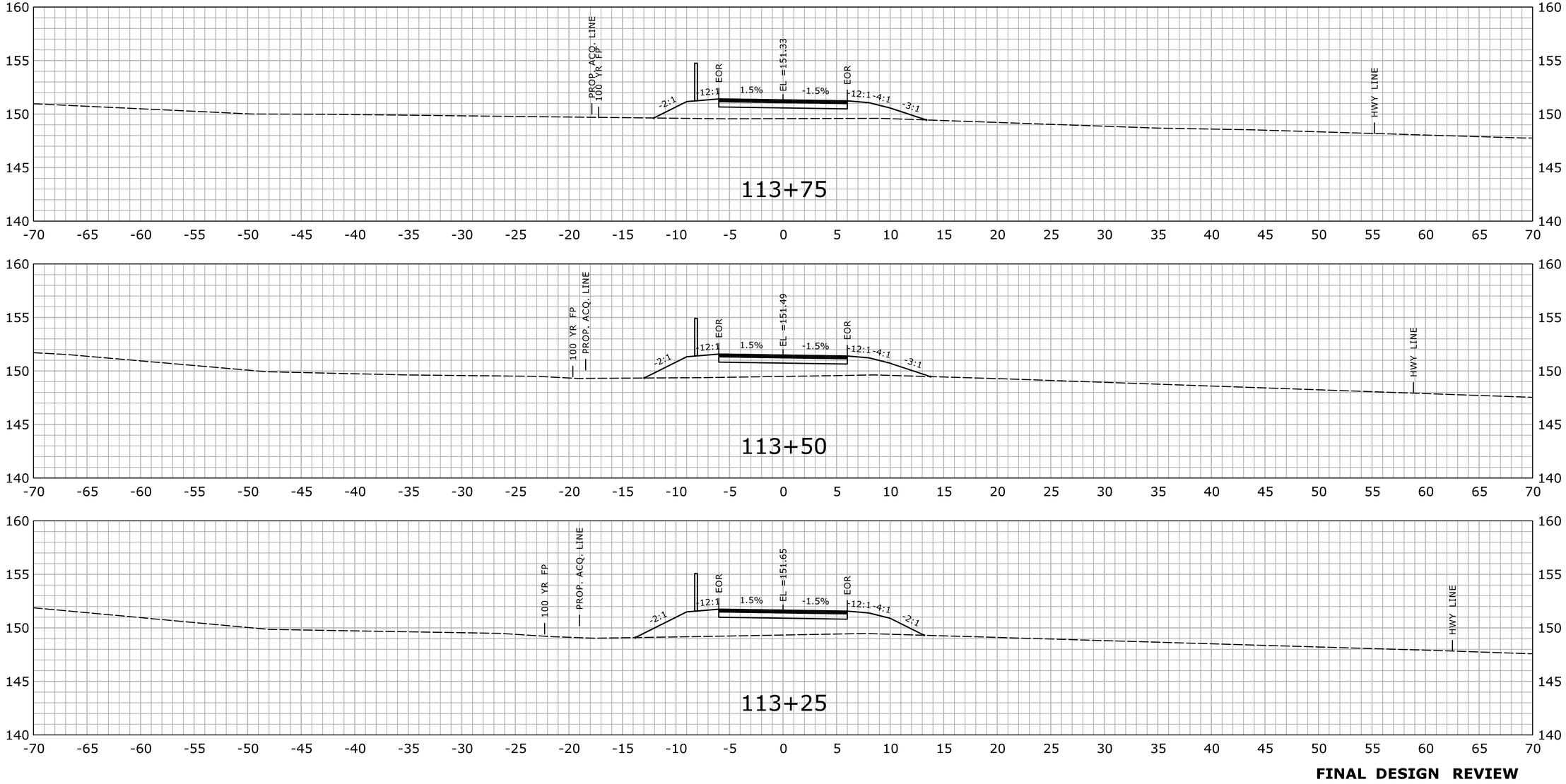
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-16**

SHEET NO.



STA.113+25 TO STA.113+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

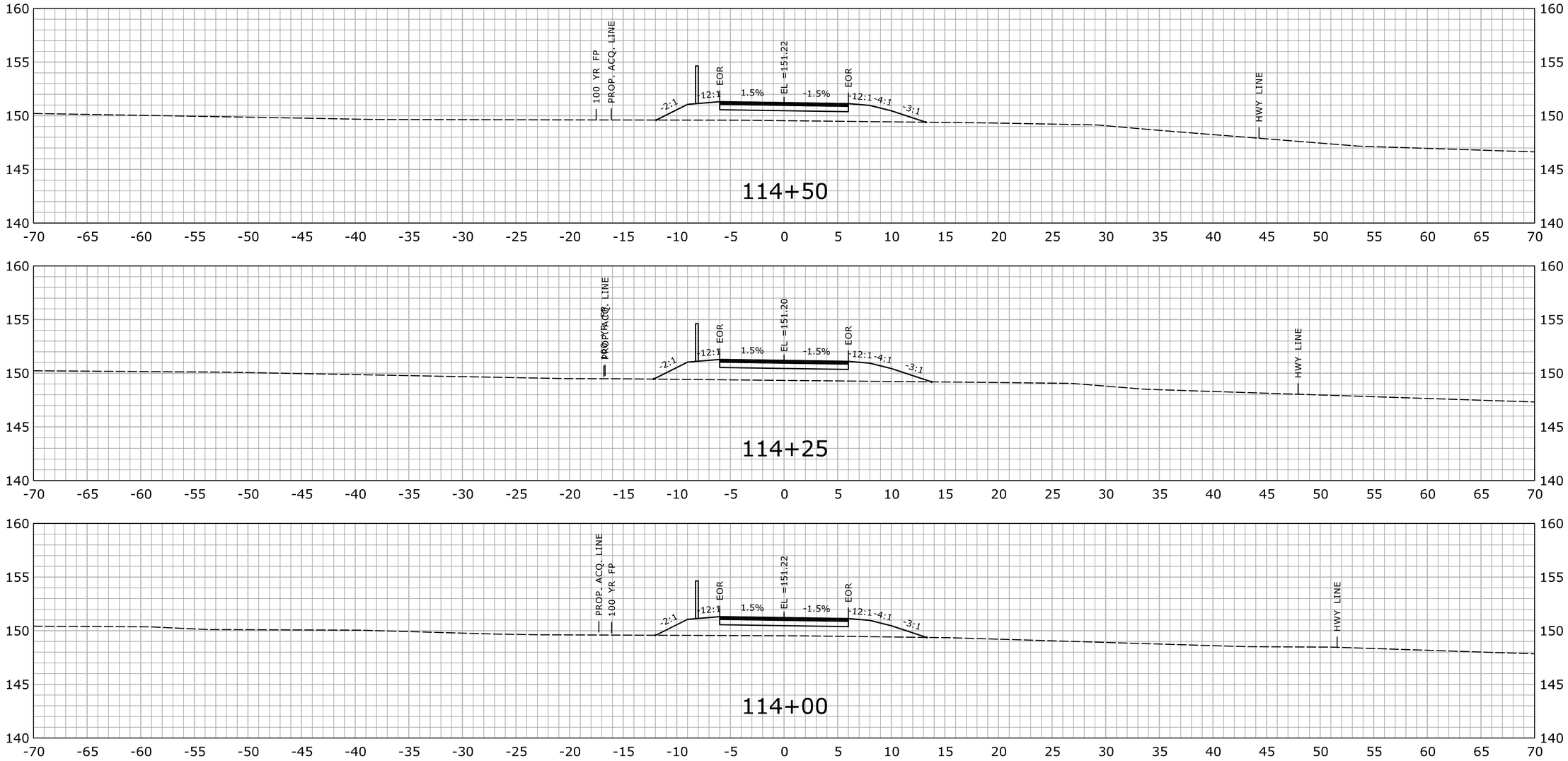
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-17**

SHEET NO.



STA.114+00 TO STA.114+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

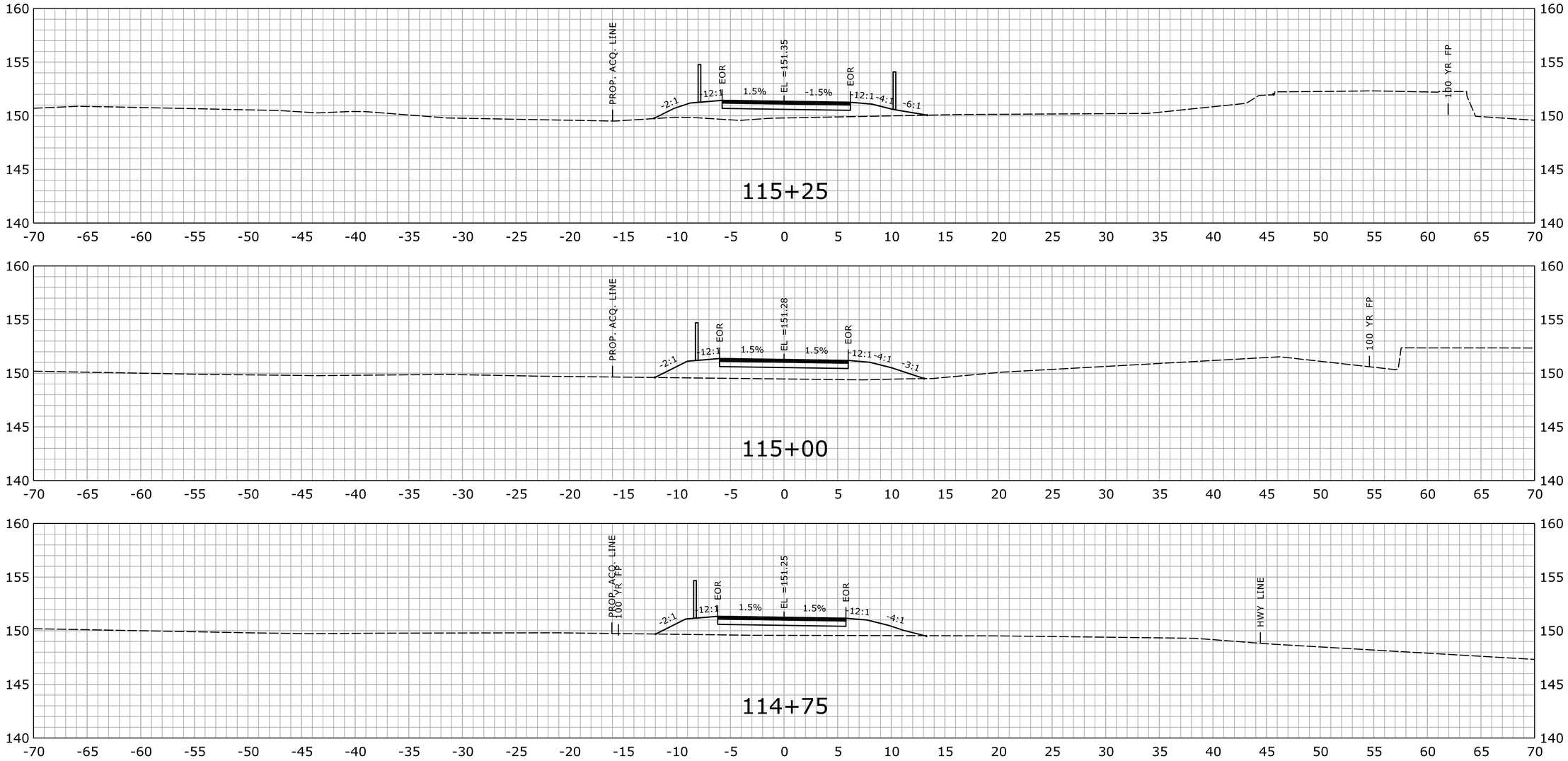
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-18**

SHEET NO.



STA.114+75 TO STA.115+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

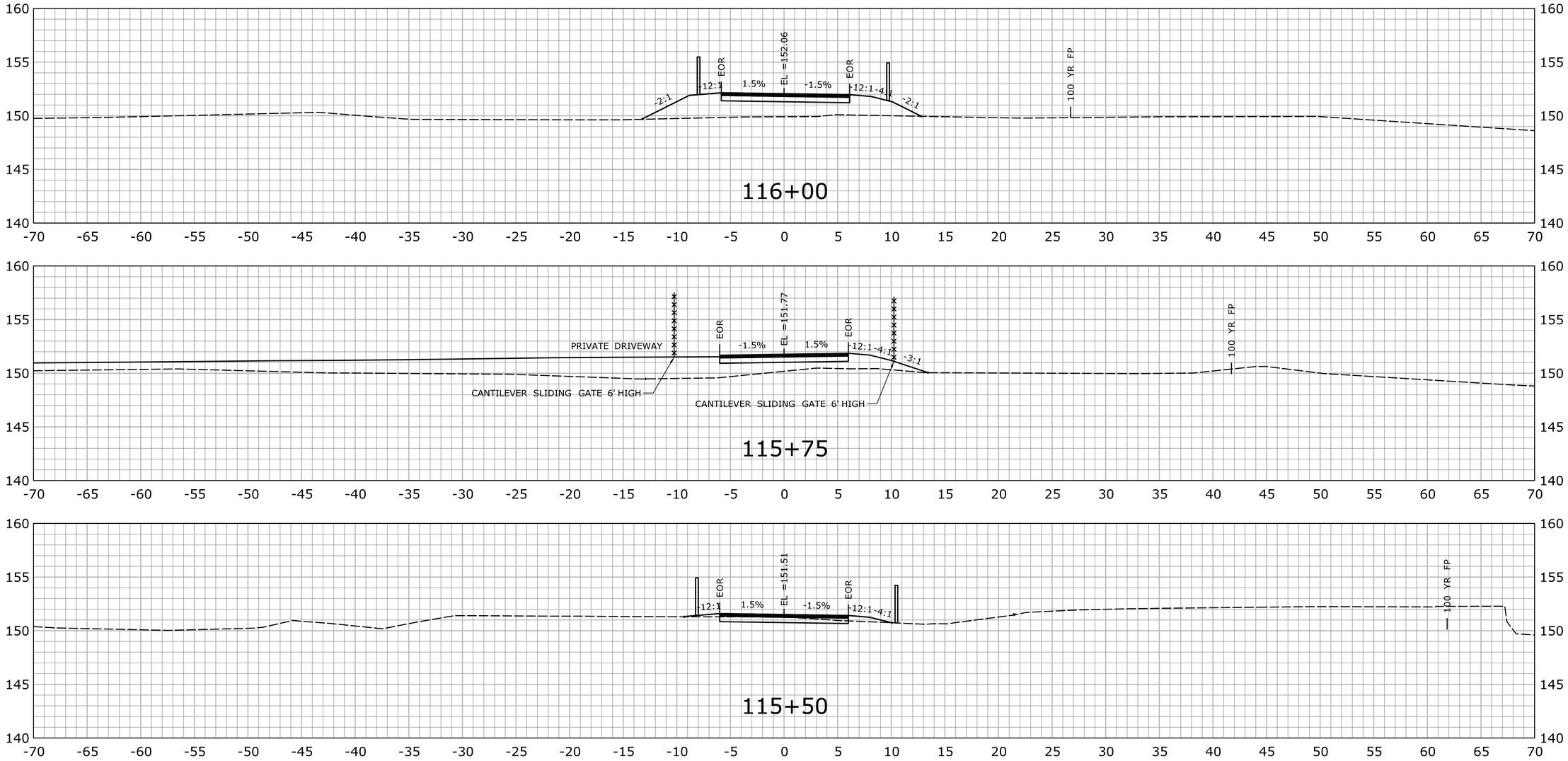
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-19**

SHEET NO.



STA.115+50 TO STA.116+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

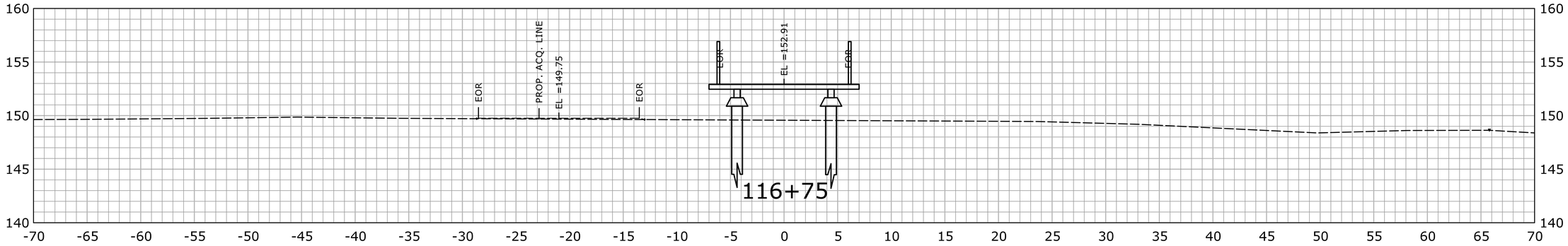
TOWN: **CHESHIRE**

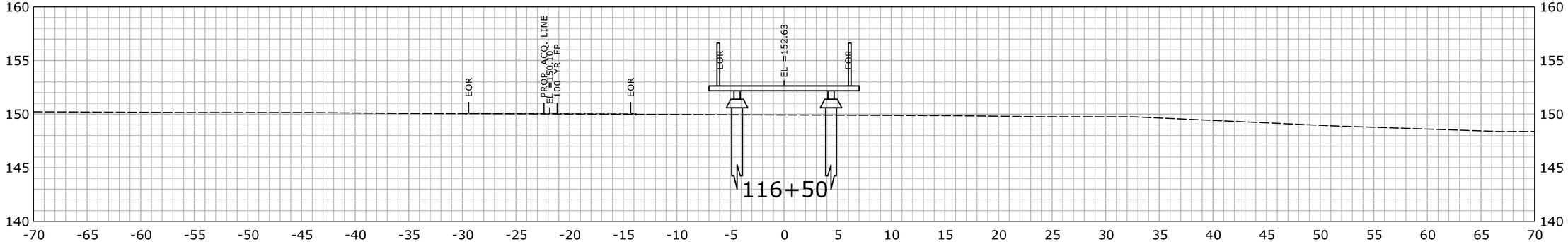
DRAWING TITLE: **CROSS SECTIONS**

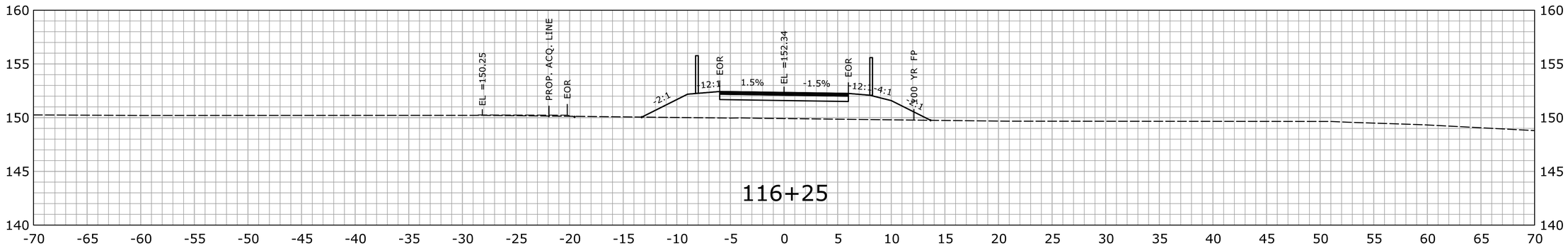
PROJECT NO. **25-145**

DRAWING NO. **XSC-20**

SHEET NO.







STA.116+25 TO STA.116+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

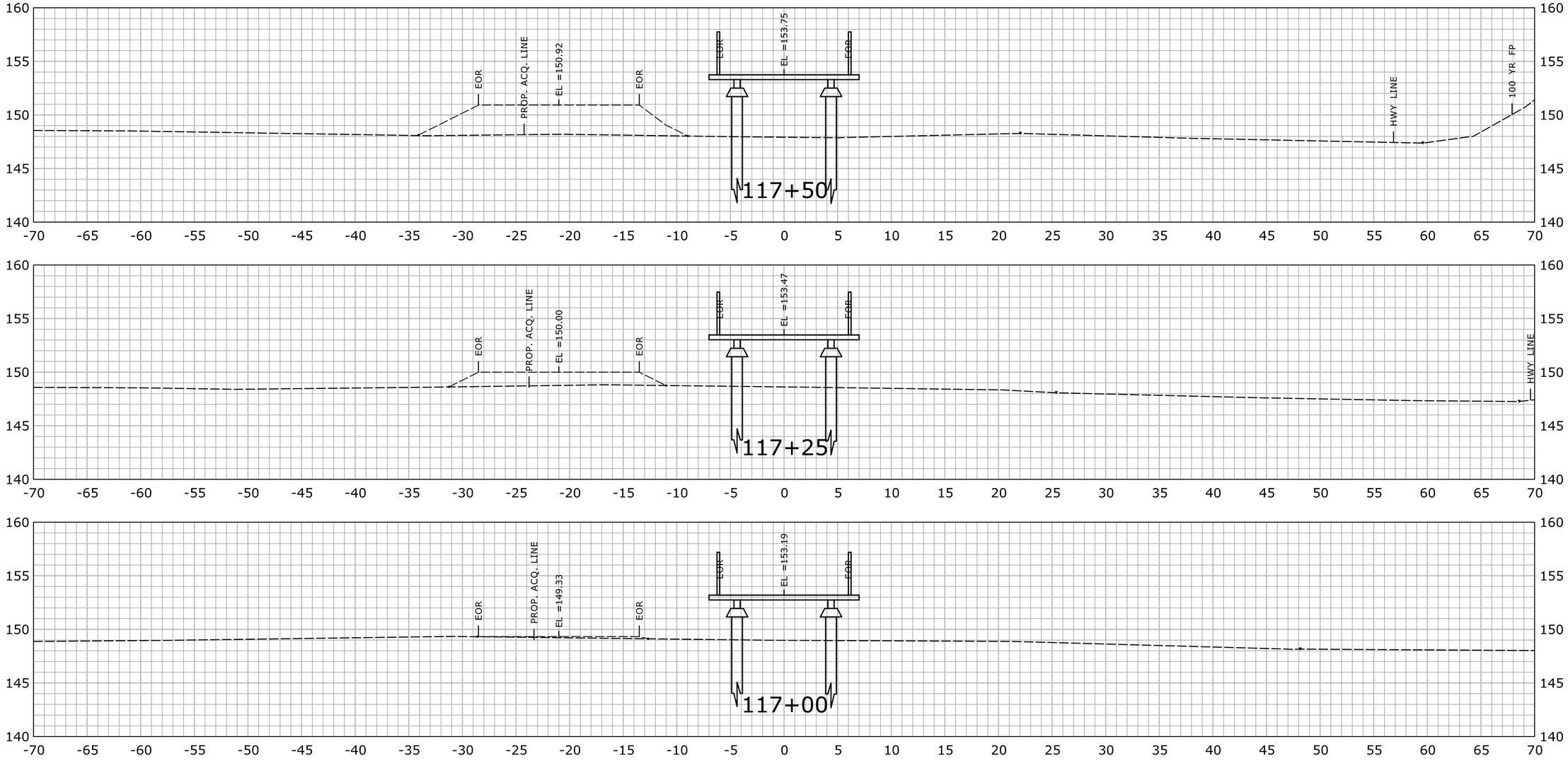
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-21**

SHEET NO.



STA.117+00 TO STA.117+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

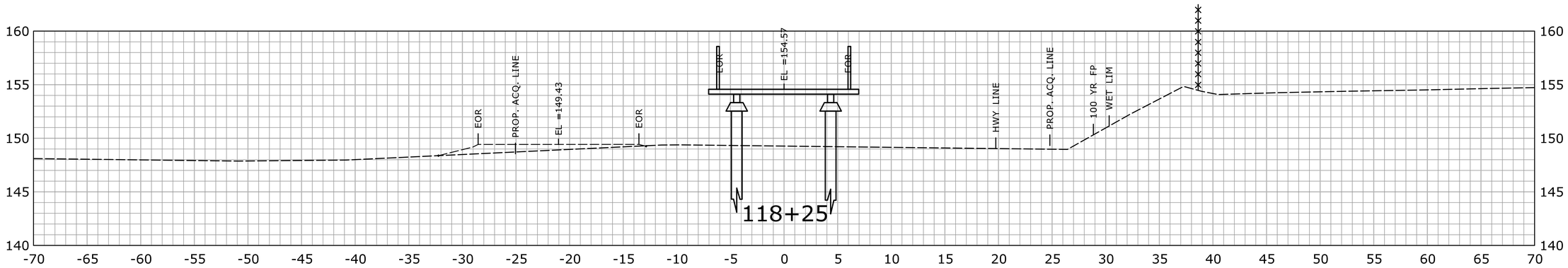
TOWN: **CHESHIRE**

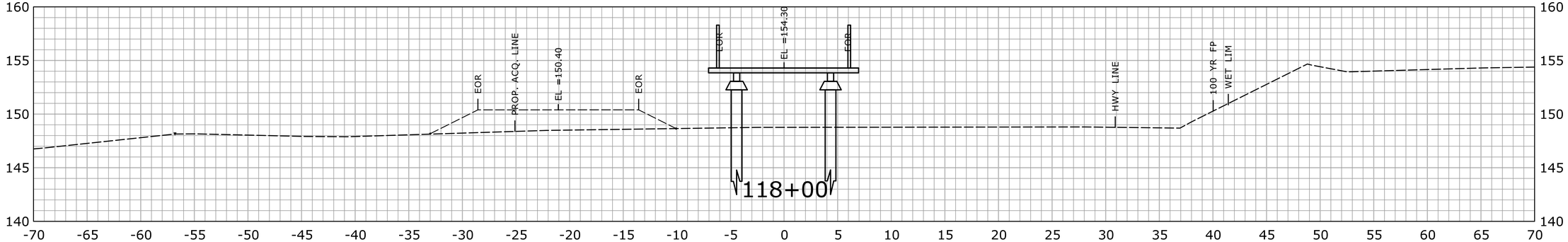
DRAWING TITLE: **CROSS SECTIONS**

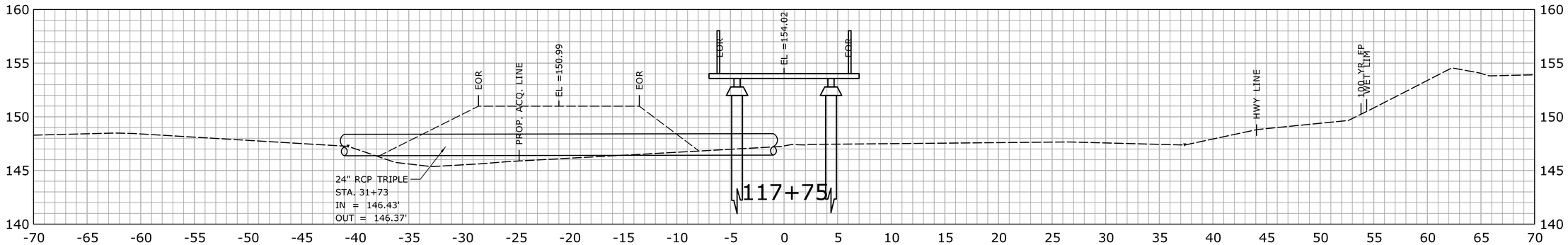
PROJECT NO. **25-145**

DRAWING NO. **XSC-22**

SHEET NO.







STA.117+75 TO STA.118+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

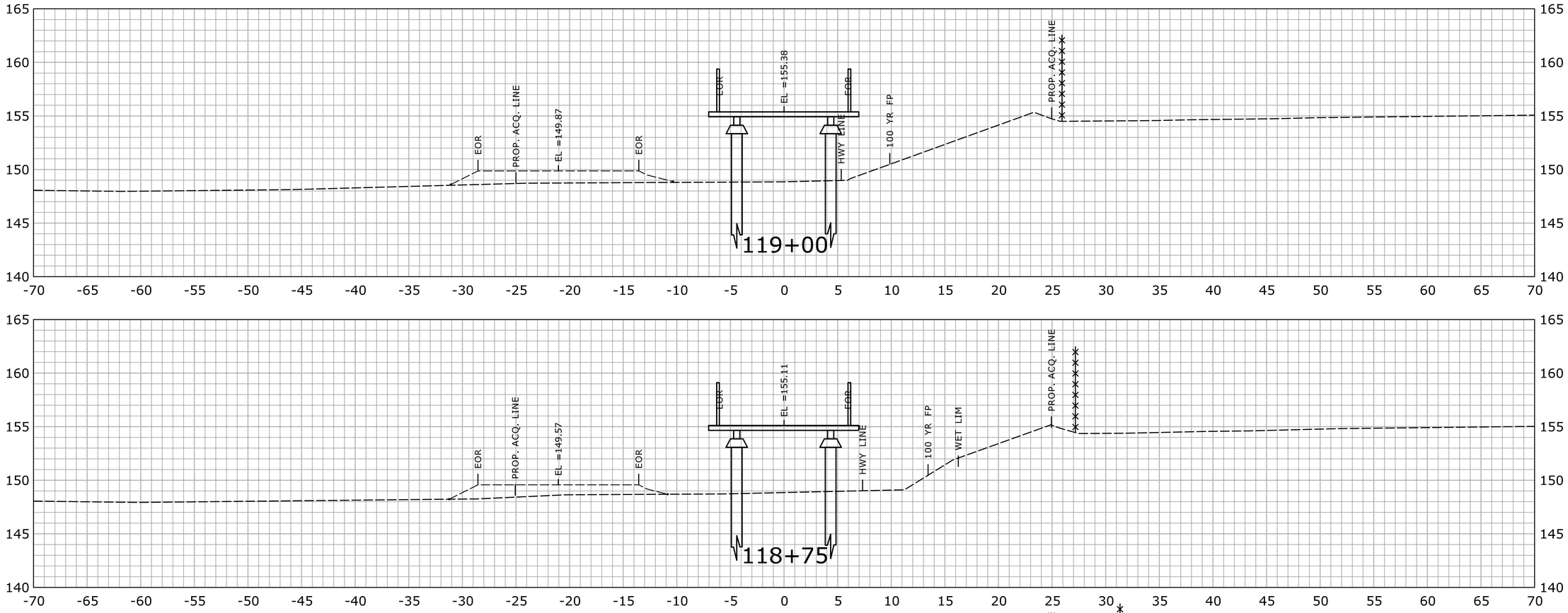
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-23**

SHEET NO.



STA.118+50 TO STA.119+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

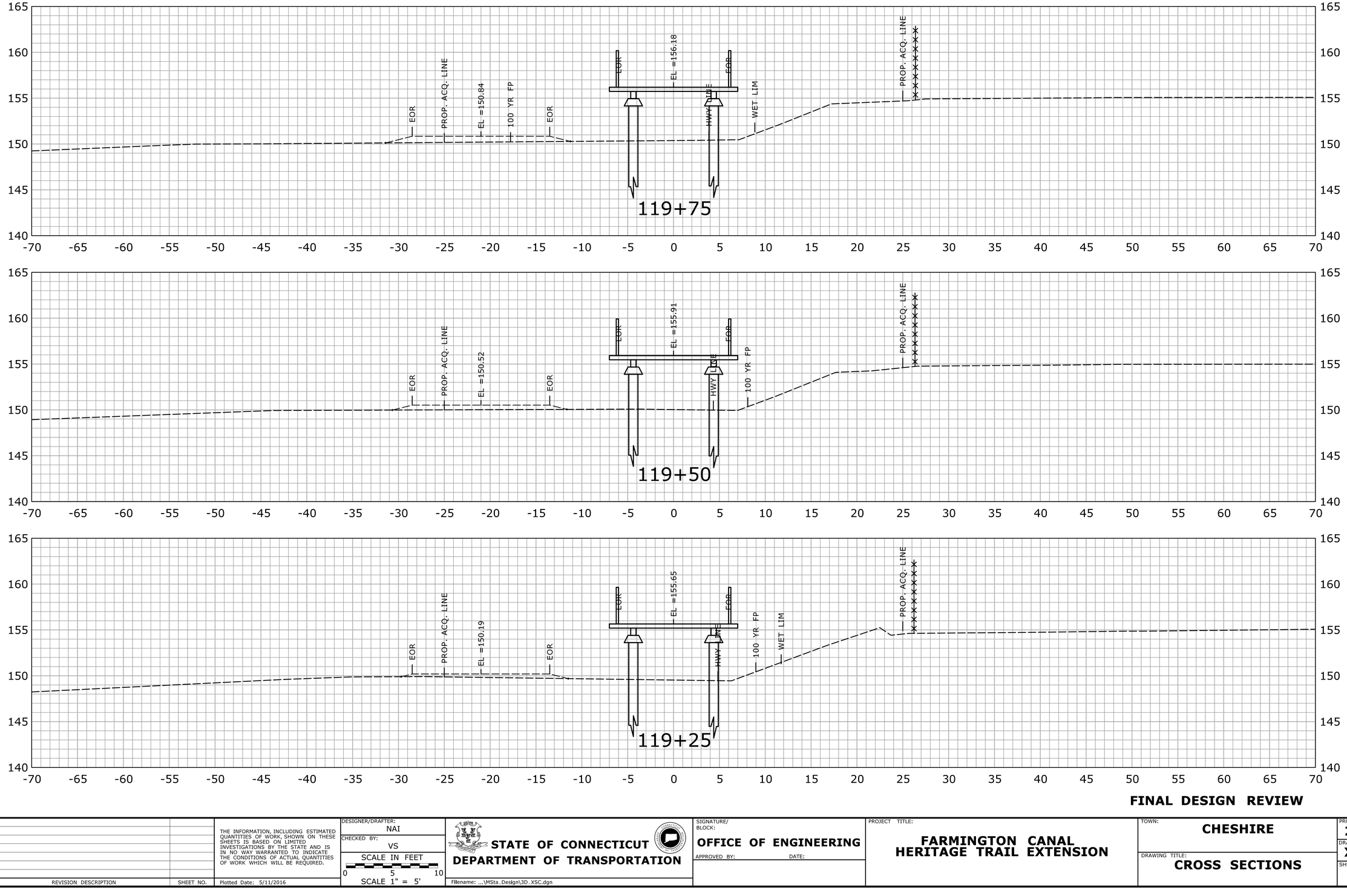
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-24**

SHEET NO.



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

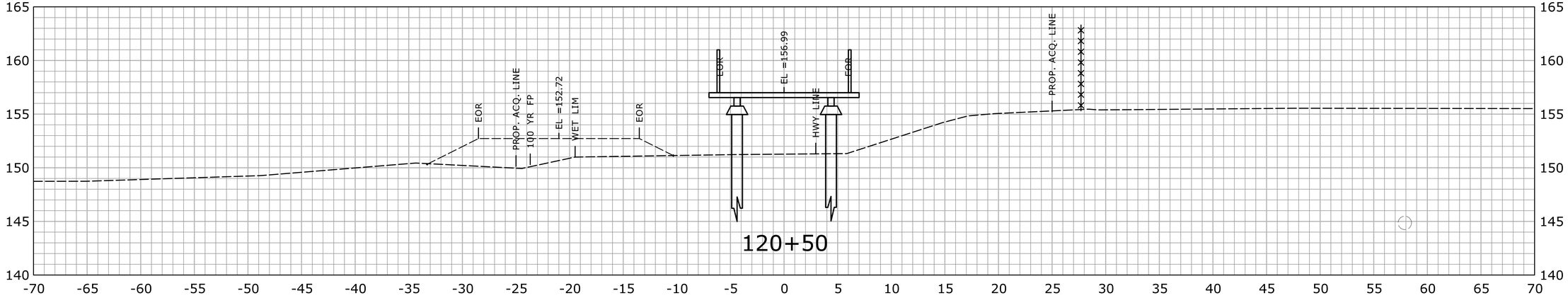
TOWN: **CHESHIRE**

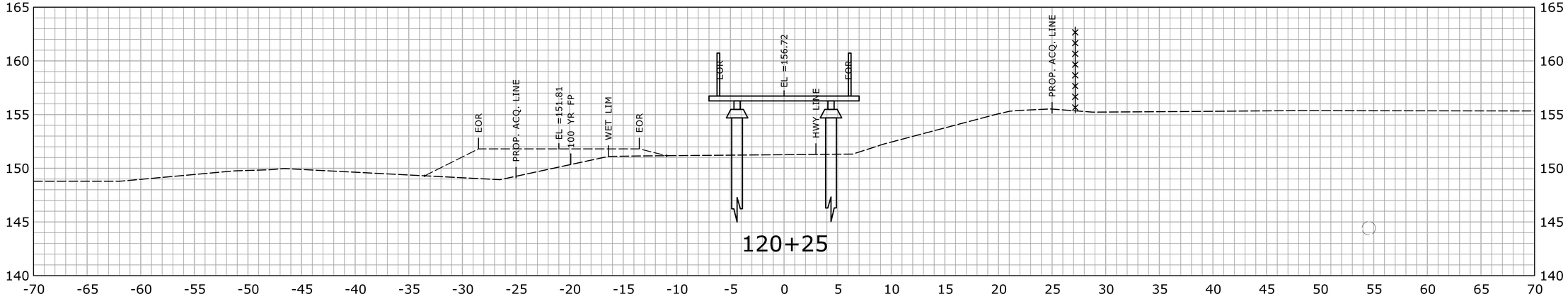
DRAWING TITLE: **CROSS SECTIONS**

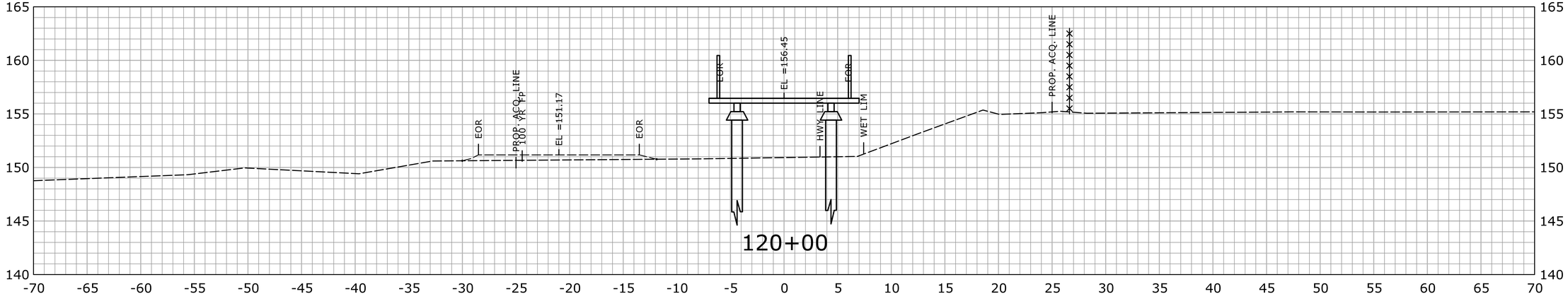
PROJECT NO. **25-145**

DRAWING NO. **XSC-25**

SHEET NO.







STA.120+00 TO STA.120+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

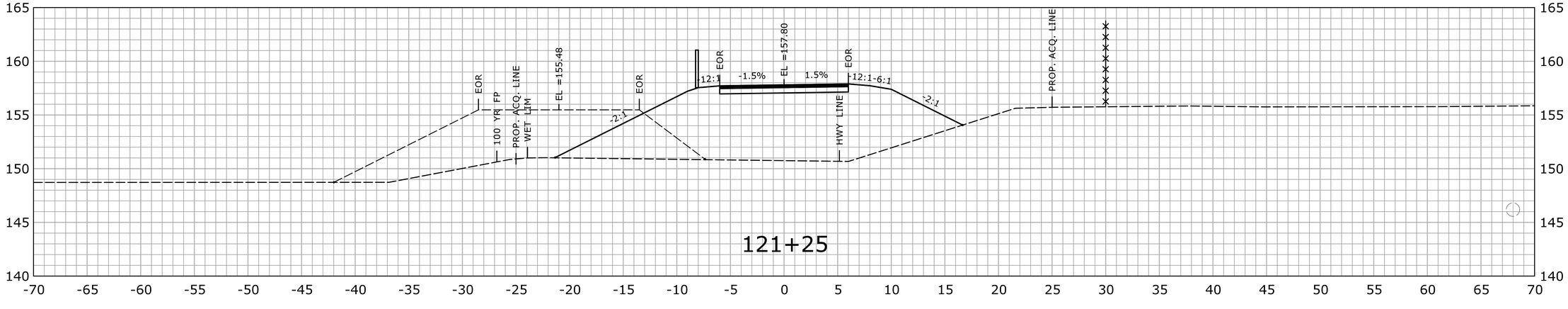
TOWN: **CHESHIRE**

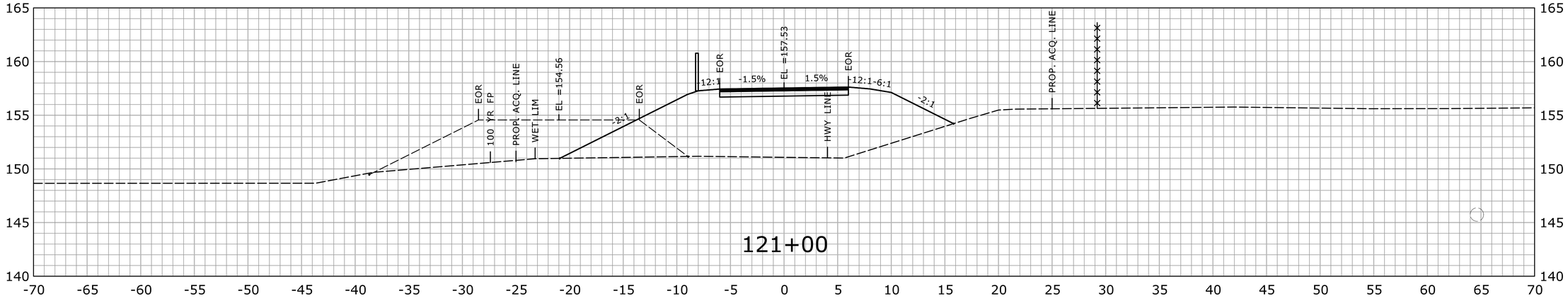
DRAWING TITLE: **CROSS SECTIONS**

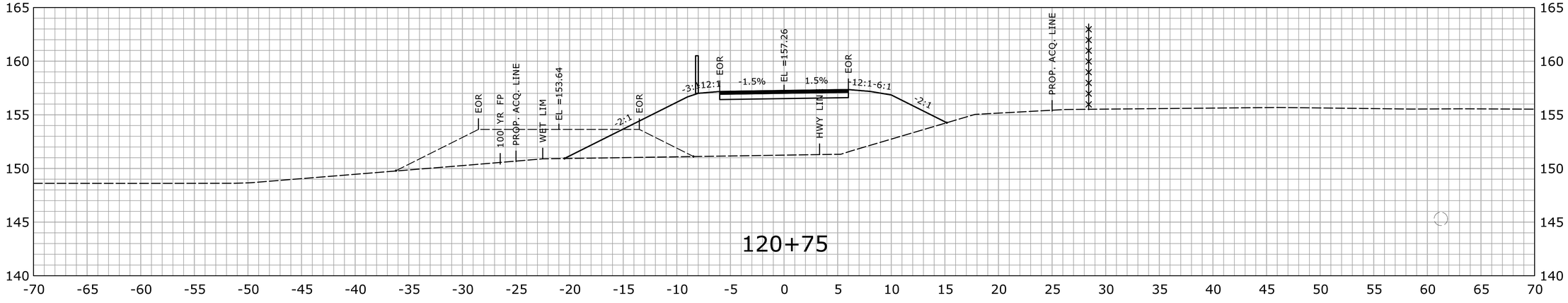
PROJECT NO. **25-145**

DRAWING NO. **XSC-26**

SHEET NO.







STA.121+25 TO STA.120+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

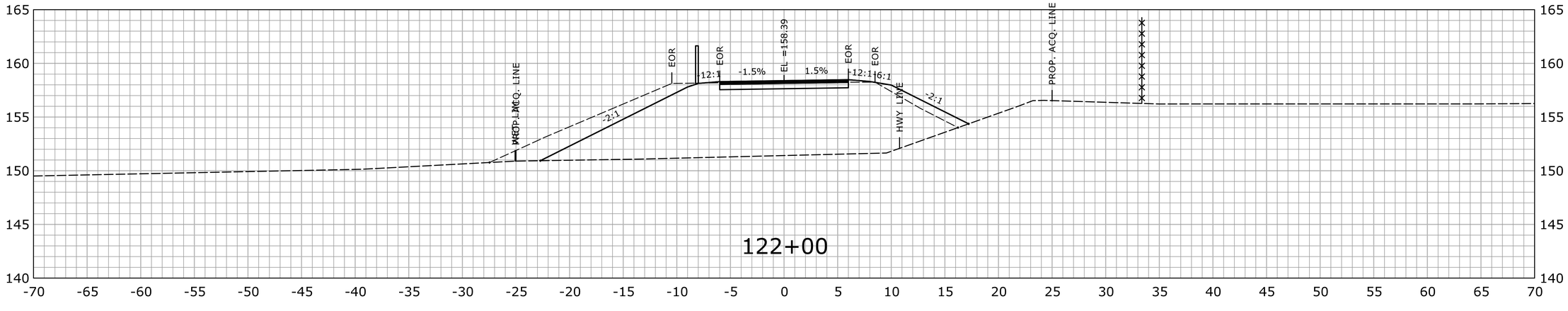
TOWN: **CHESHIRE**

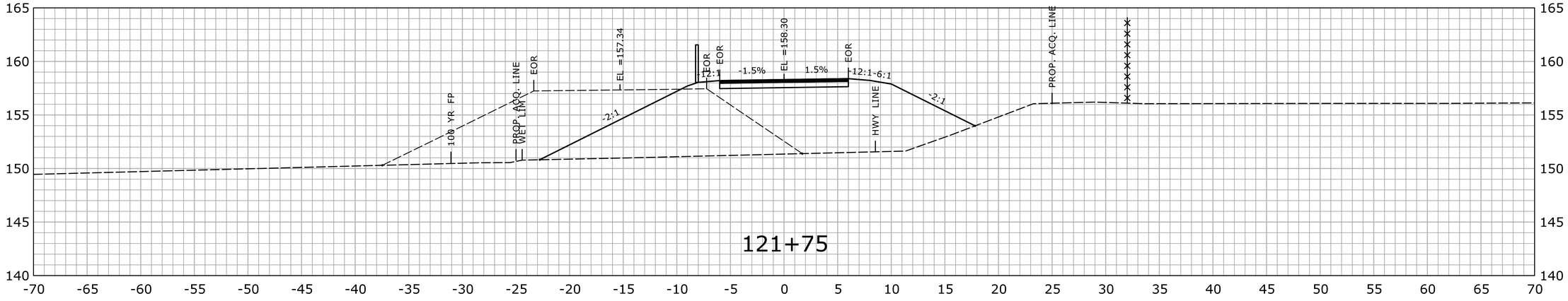
DRAWING TITLE: **CROSS SECTIONS**

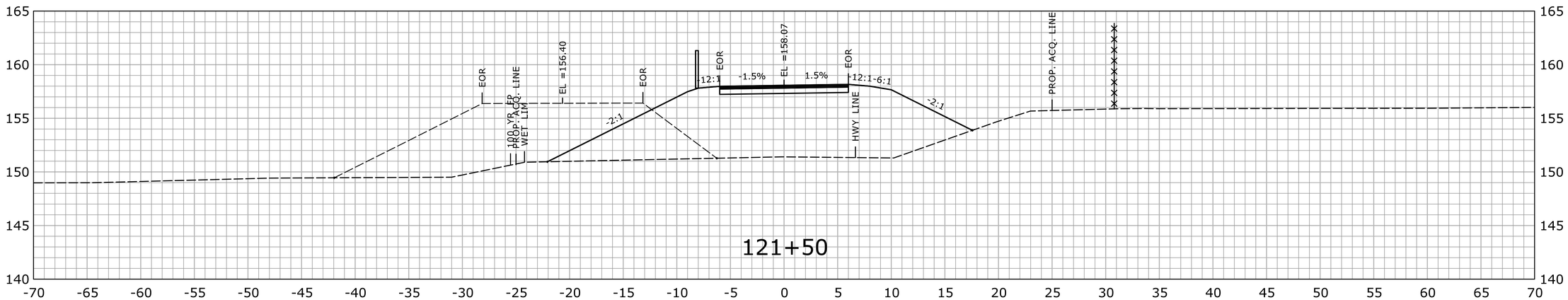
PROJECT NO. **25-145**

DRAWING NO. **XSC-27**

SHEET NO.







STA.121+50 TO STA.122+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

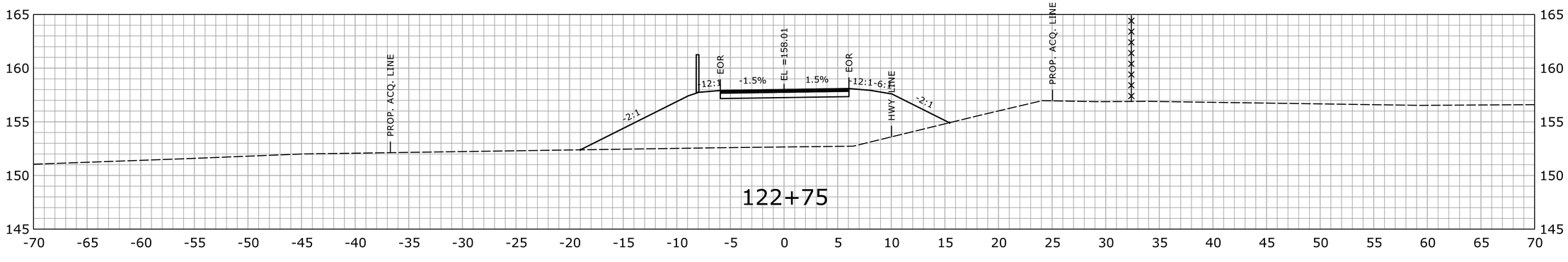
TOWN: **CHESHIRE**

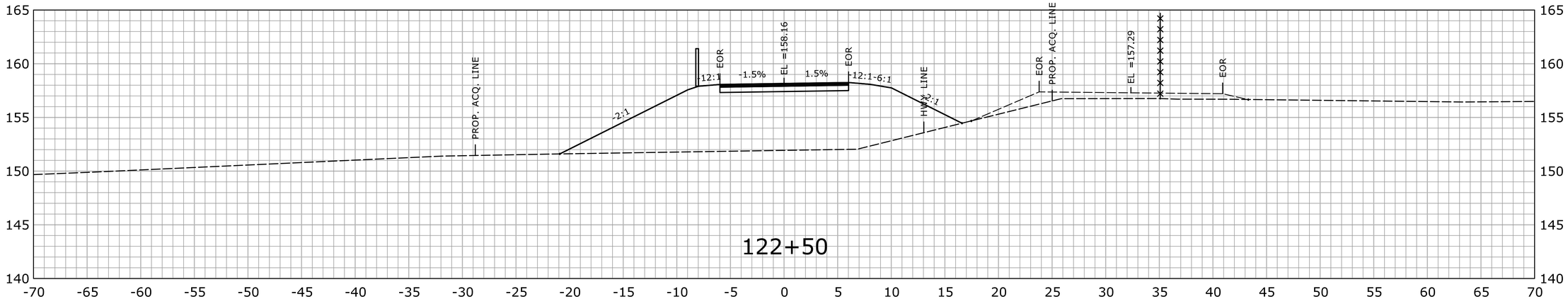
DRAWING TITLE: **CROSS SECTIONS**

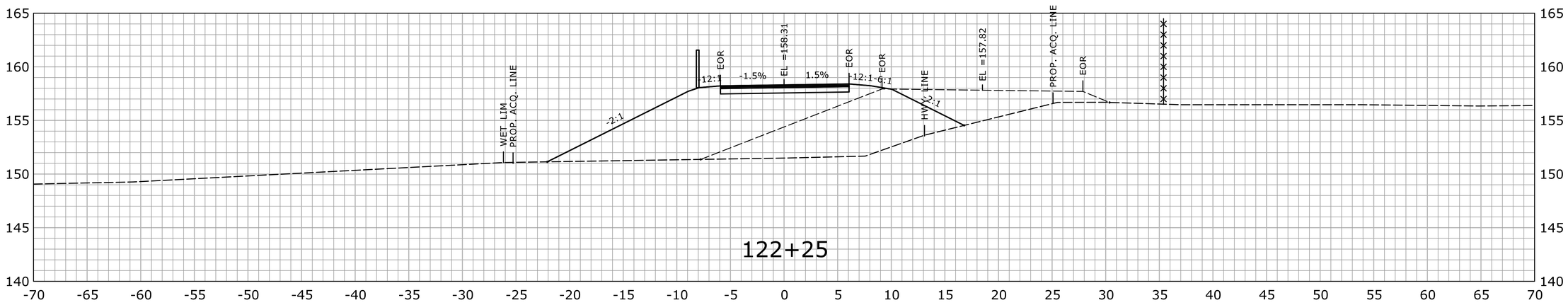
PROJECT NO. **25-145**

DRAWING NO. **XSC-28**

SHEET NO.







STA.122+25 TO STA.122+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: NAI CHECKED BY: VS SCALE IN FEET 0 5 10 SCALE 1" = 5'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: DATE:
				Plotted Date: 5/11/2016		Filename: ...\MSta_Design\3D_XSC.dgn	

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

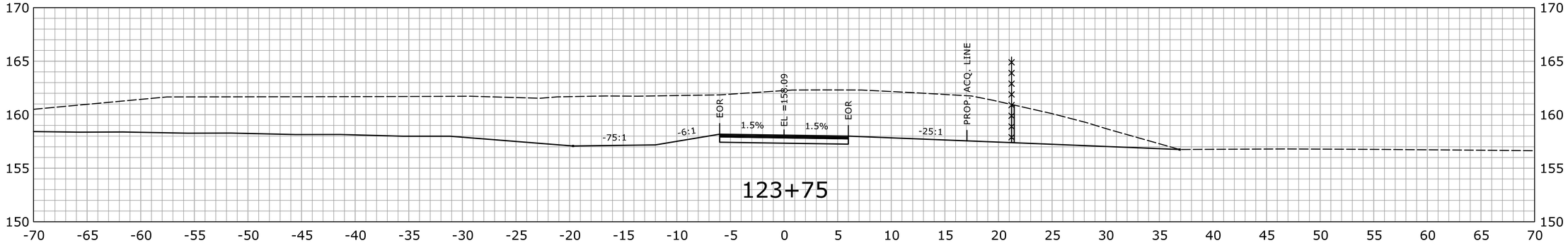
TOWN: **CHESHIRE**

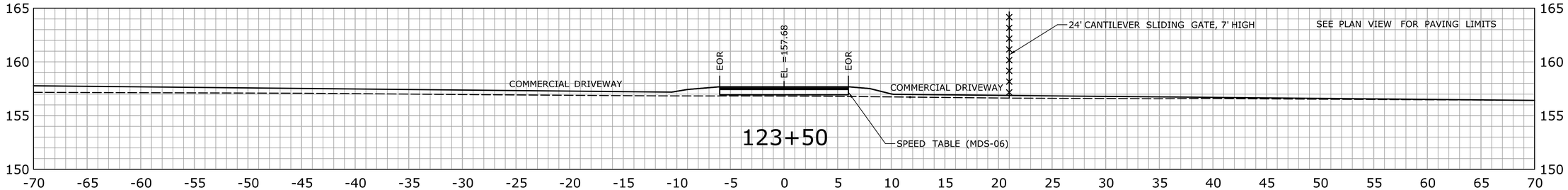
DRAWING TITLE: **CROSS SECTIONS**

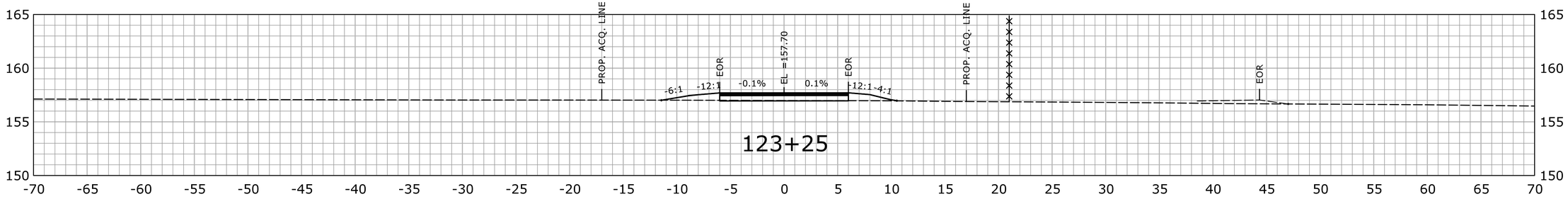
PROJECT NO. **25-145**

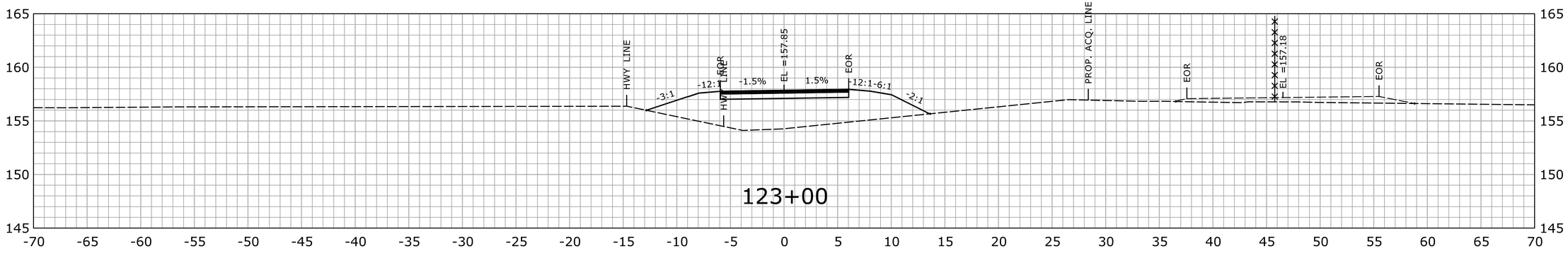
DRAWING NO. **XSC-29**

SHEET NO.









STA.123+00 TO STA.123+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

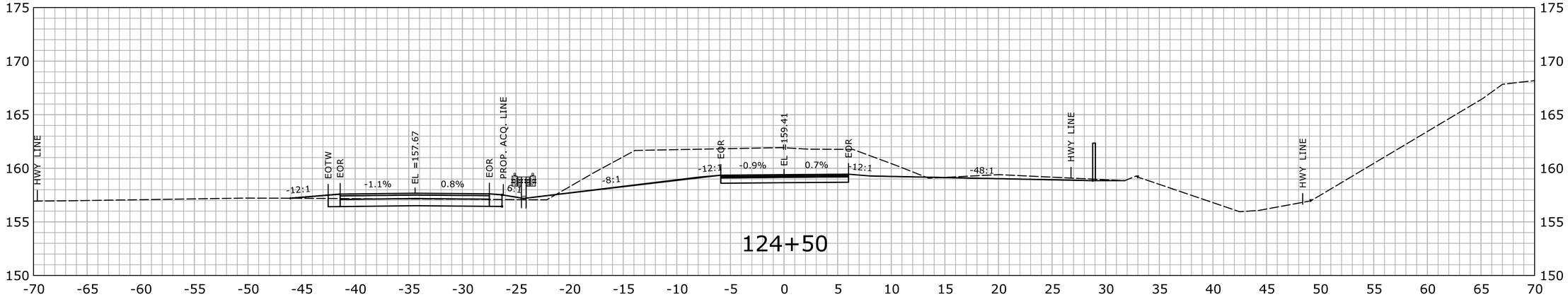
TOWN: **CHESHIRE**

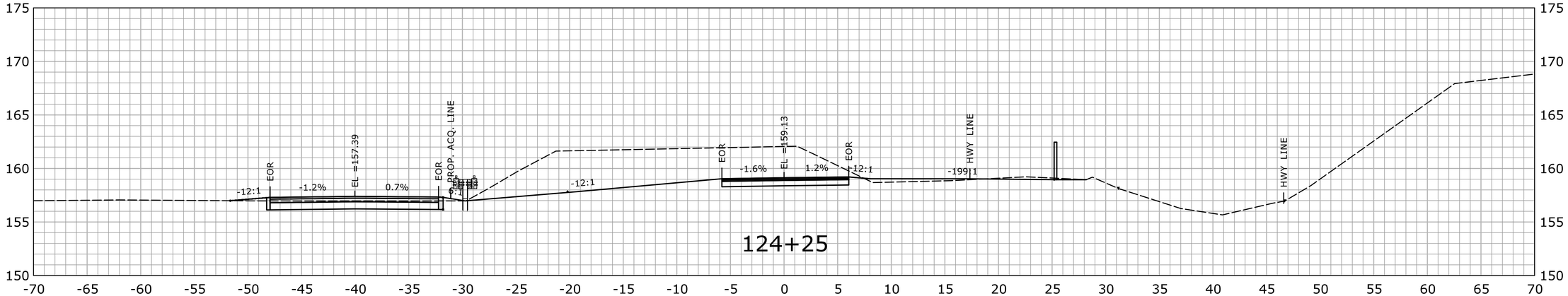
DRAWING TITLE: **CROSS SECTIONS**

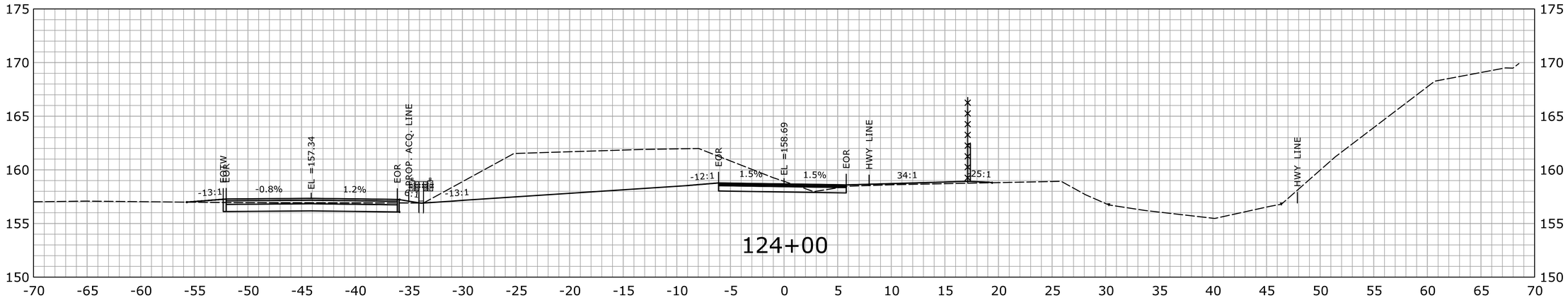
PROJECT NO. **25-145**

DRAWING NO. **XSC-30**

SHEET NO.







STA.124+00 TO STA.124+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

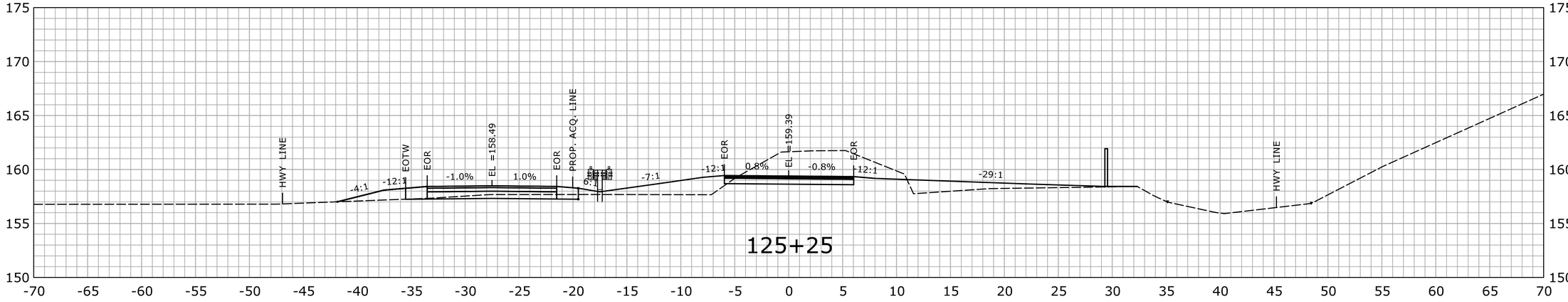
TOWN: **CHESHIRE**

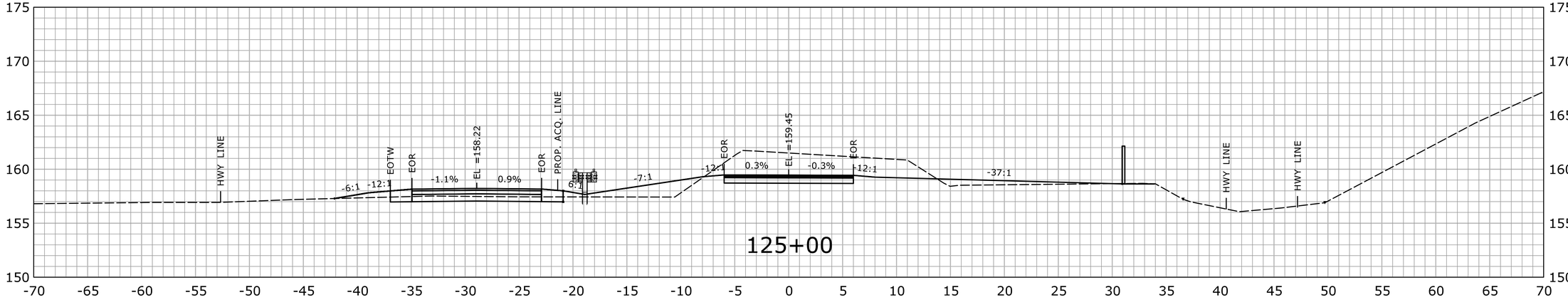
DRAWING TITLE: **CROSS SECTIONS**

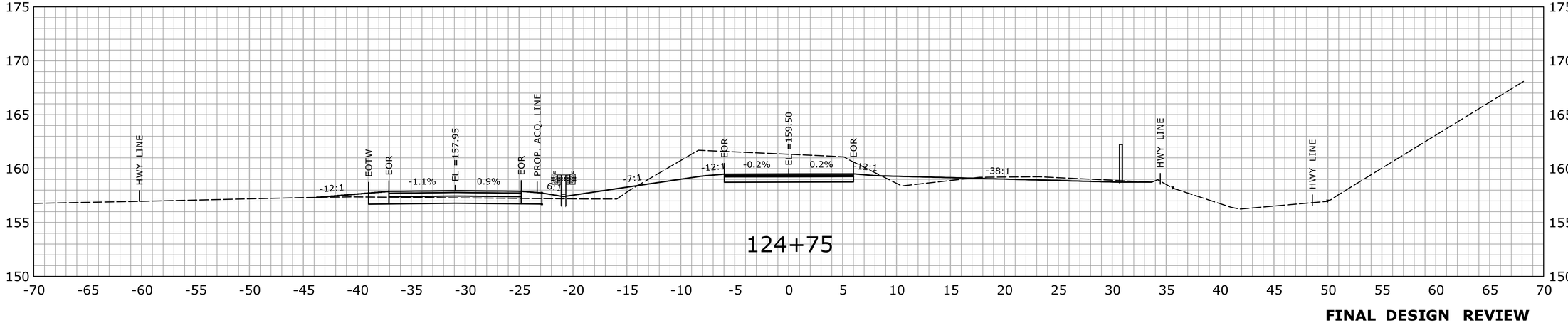
PROJECT NO. **25-145**

DRAWING NO. **XSC-31**

SHEET NO.







STA.124+75 TO STA.125+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

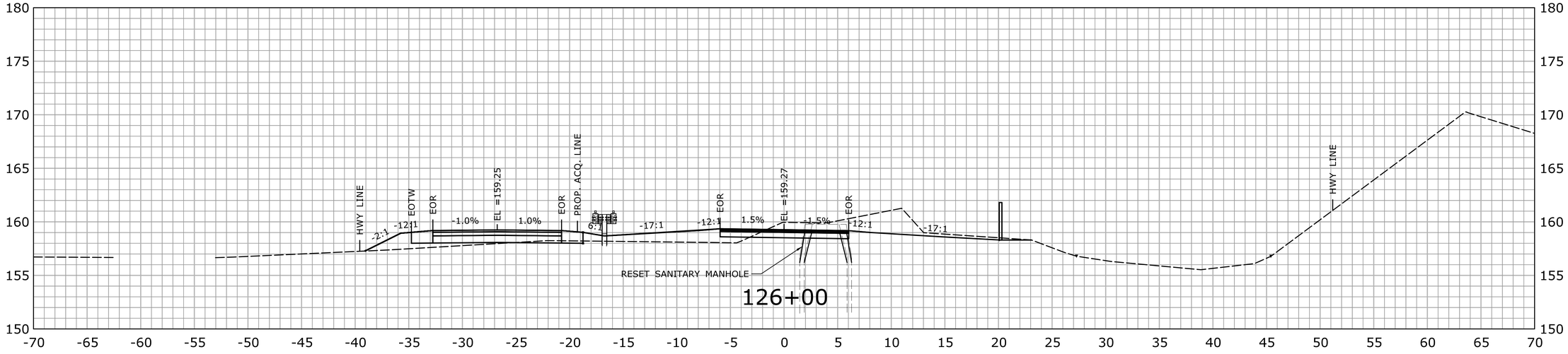
TOWN: **CHESHIRE**

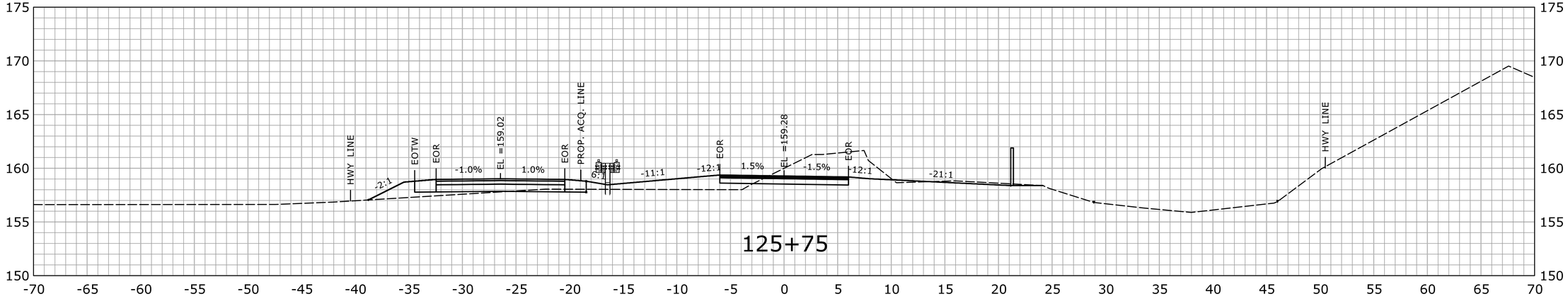
DRAWING TITLE: **CROSS SECTIONS**

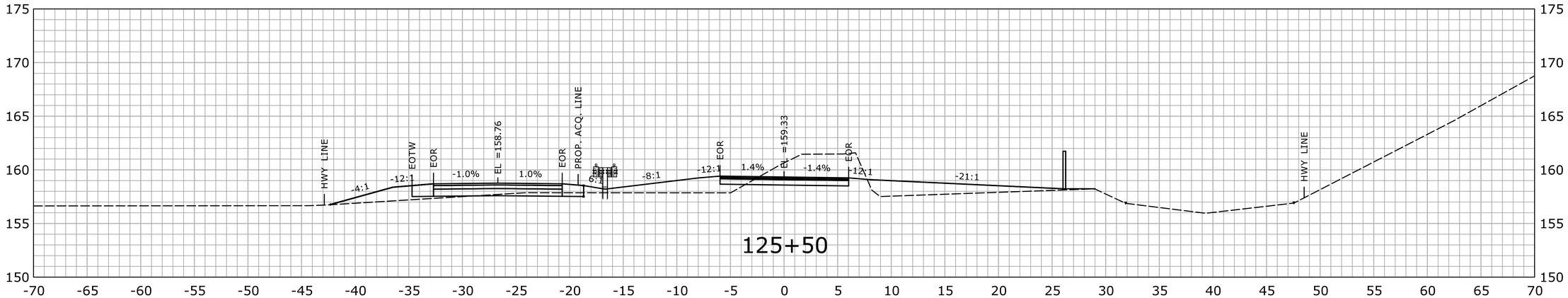
PROJECT NO. **25-145**

DRAWING NO. **XSC-32**

SHEET NO.







STA.125+50 TO STA.126+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

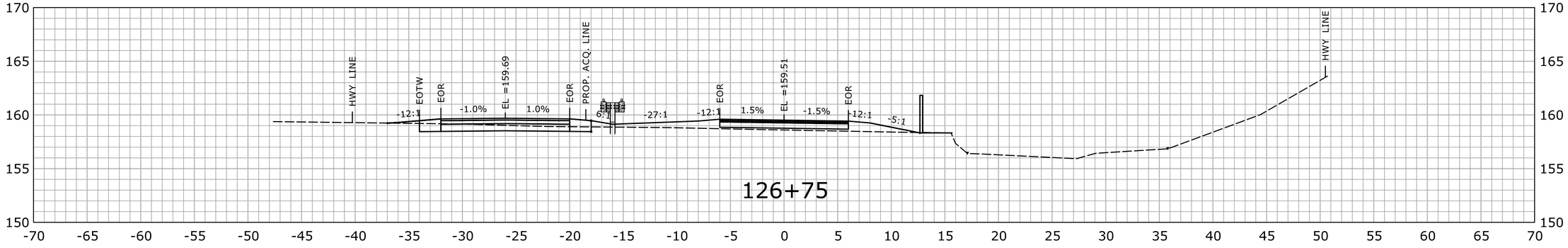
TOWN: **CHESHIRE**

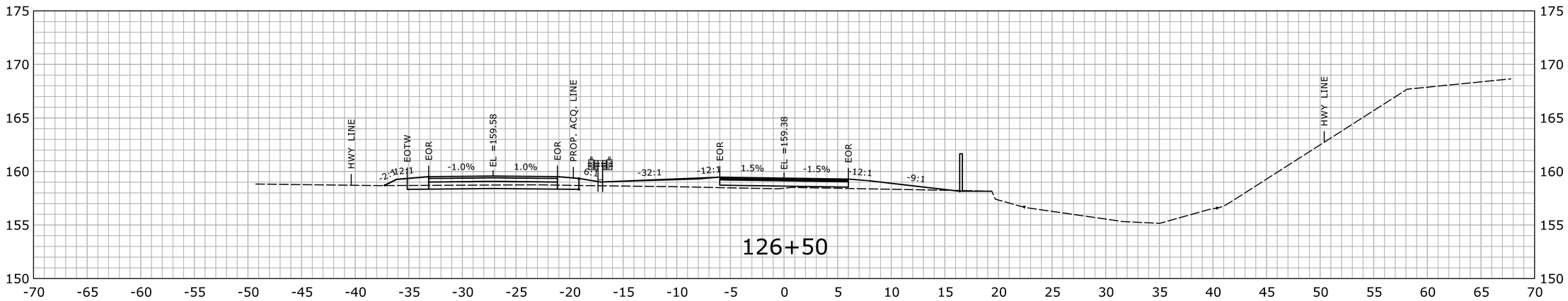
DRAWING TITLE: **CROSS SECTIONS**

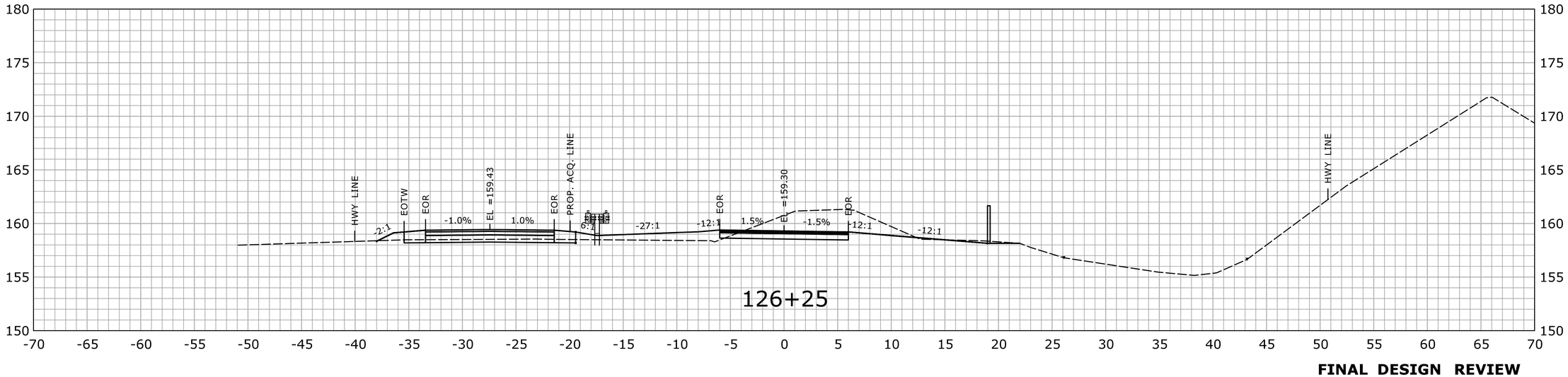
PROJECT NO. **25-145**

DRAWING NO. **XSC-33**

SHEET NO.







FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

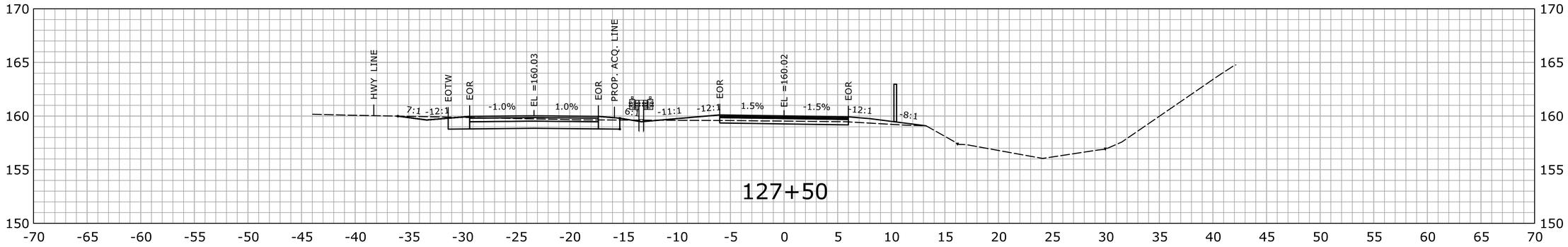
TOWN: **CHESHIRE**

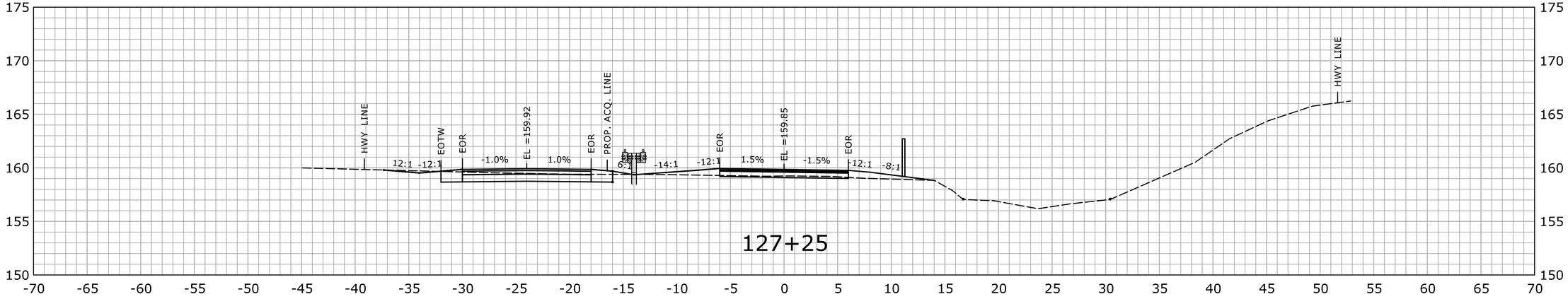
DRAWING TITLE: **CROSS SECTIONS**

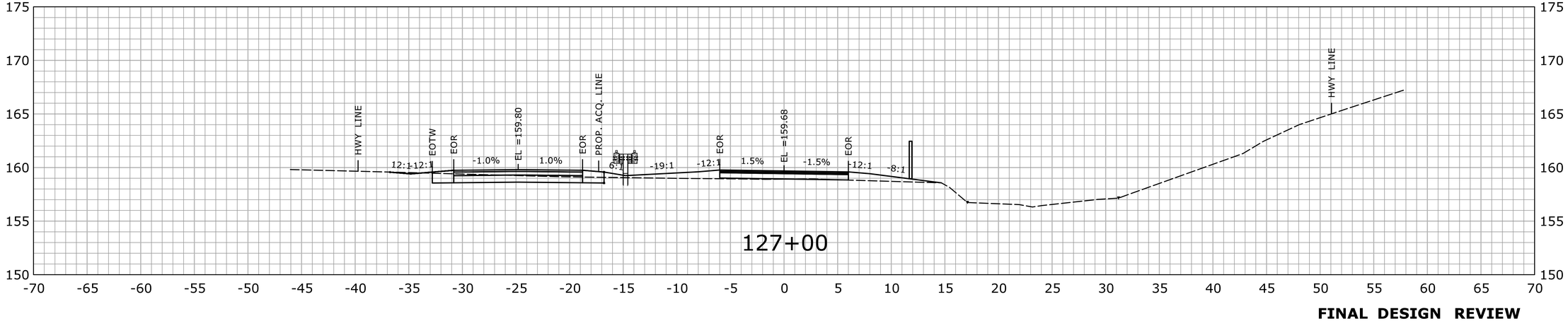
PROJECT NO. **25-145**

DRAWING NO. **XSC-34**

SHEET NO.







STA.127+50 TO STA.127+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

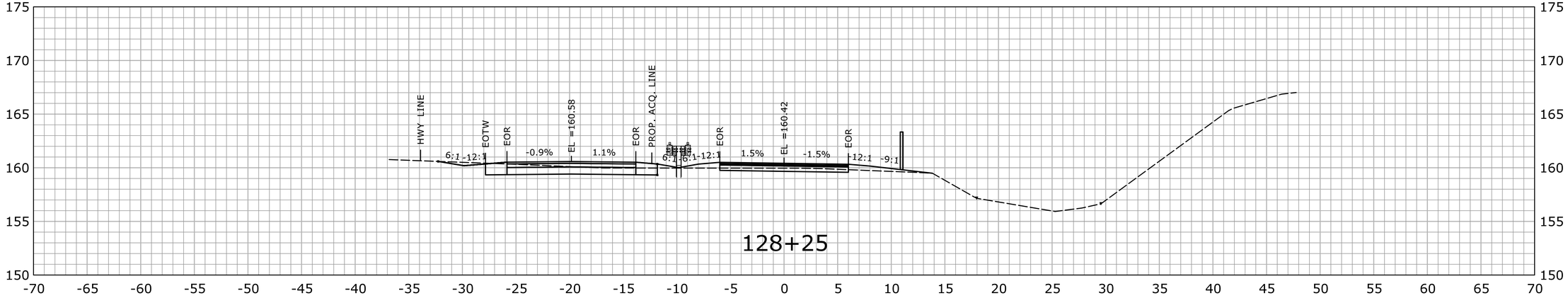
TOWN: **CHESHIRE**

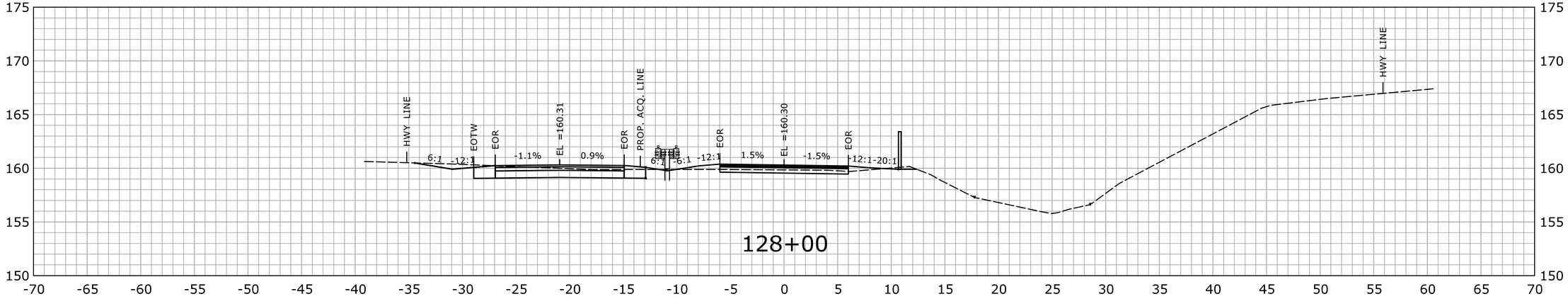
DRAWING TITLE: **CROSS SECTIONS**

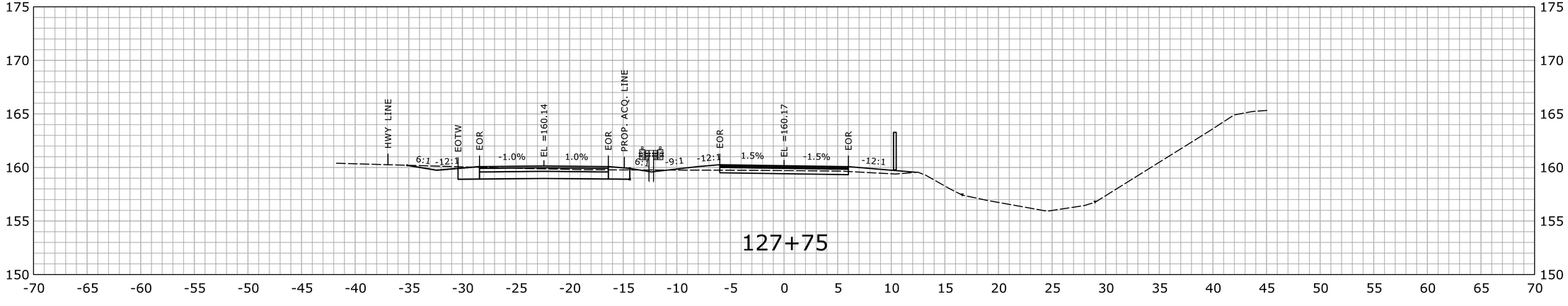
PROJECT NO. **25-145**

DRAWING NO. **XSC-35**

SHEET NO.







STA.127+75 TO STA.128+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-36**

SHEET NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL
HERITAGE TRAIL EXTENSION

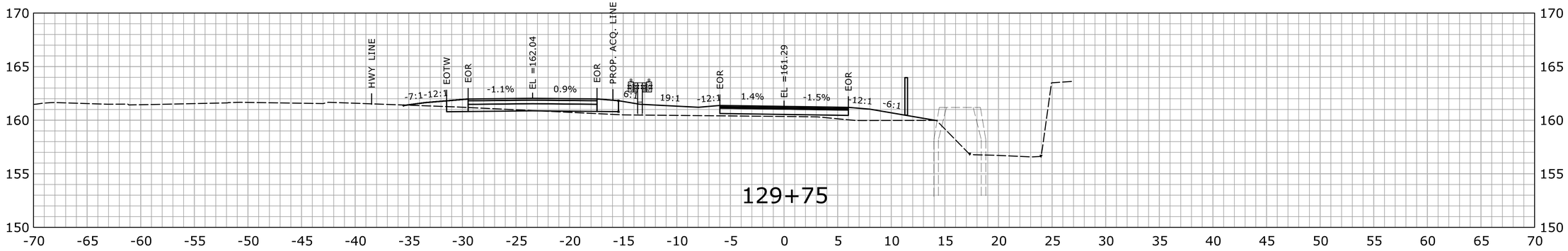
TOWN: CHESHIRE

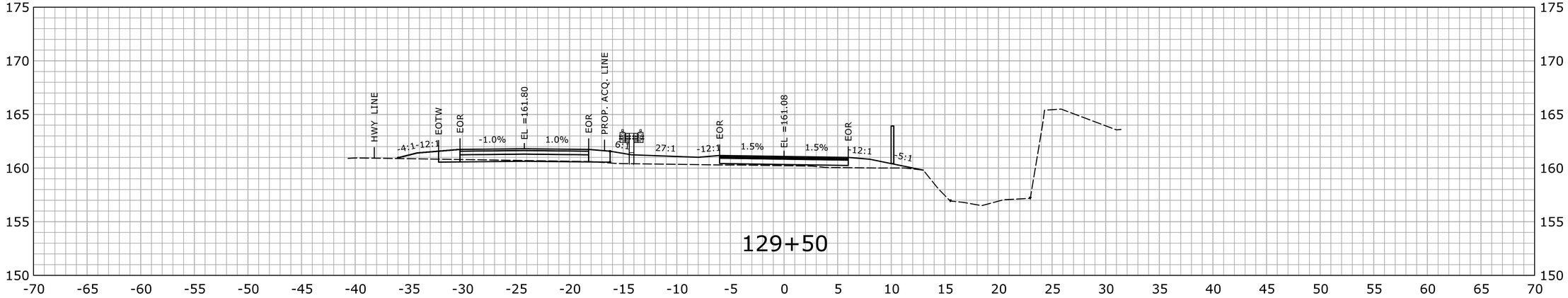
DRAWING TITLE:
CROSS SECTIONS

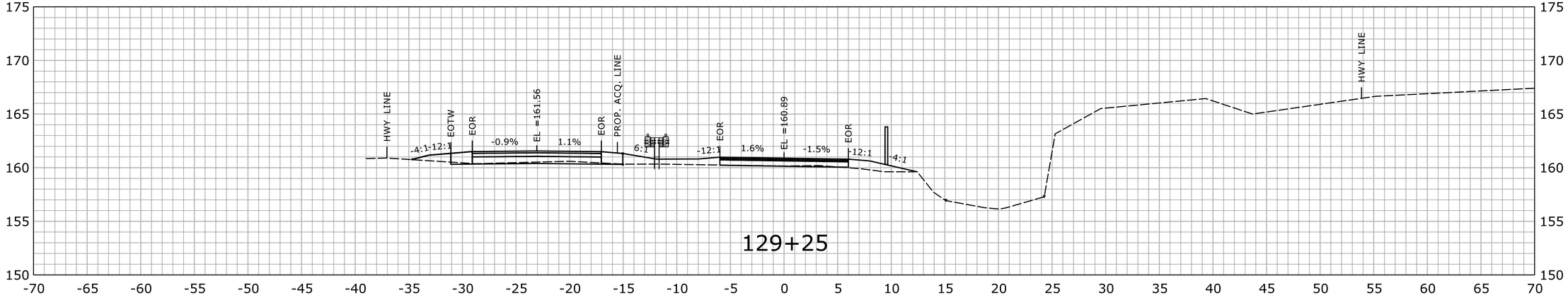
PROJECT NO. 25-145

DRAWING NO. XSC-37

SHEET NO.







STA.129+25 TO STA.129+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

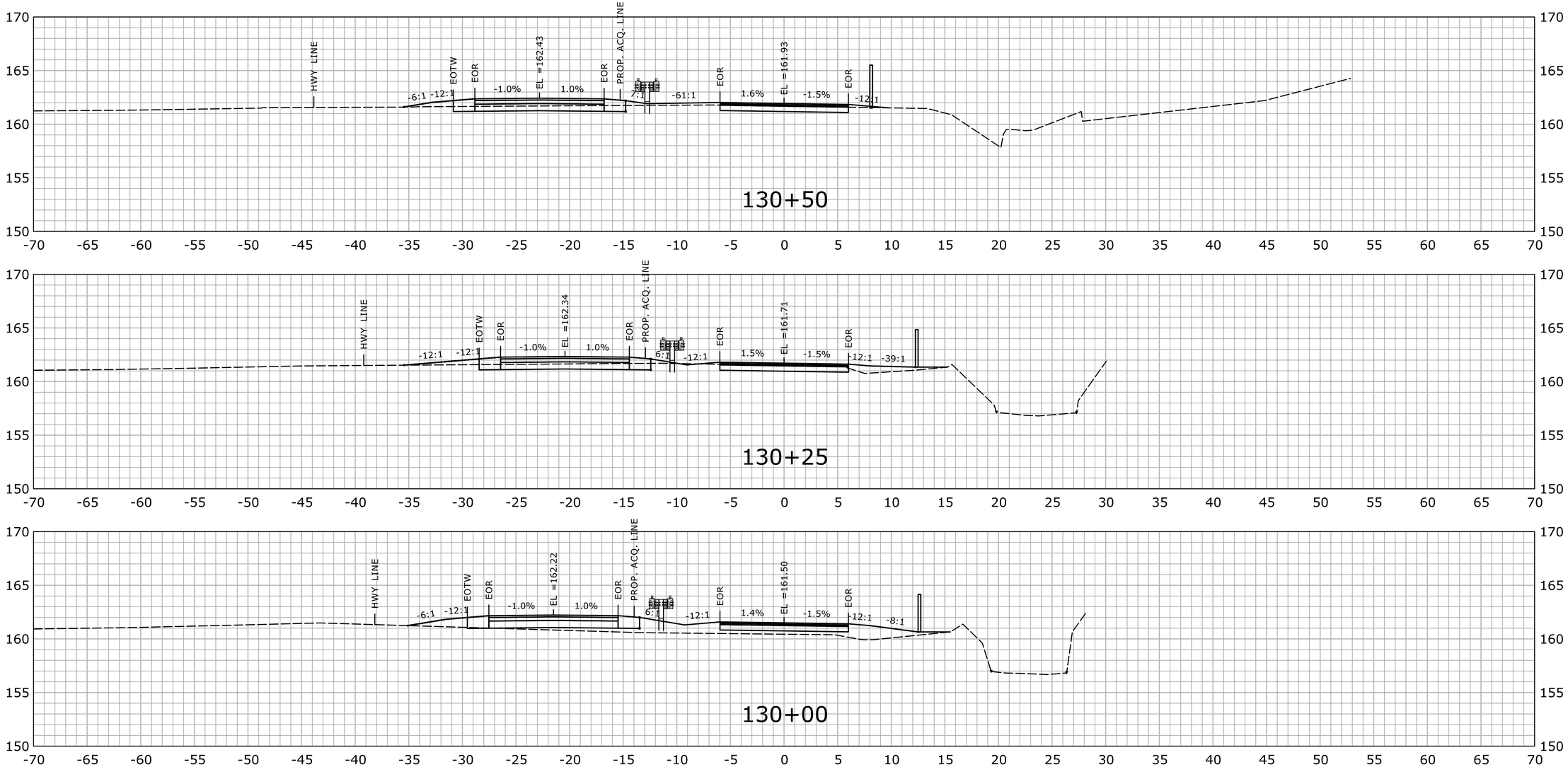
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-38**

SHEET NO.



STA.130+00 TO STA.130+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
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APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

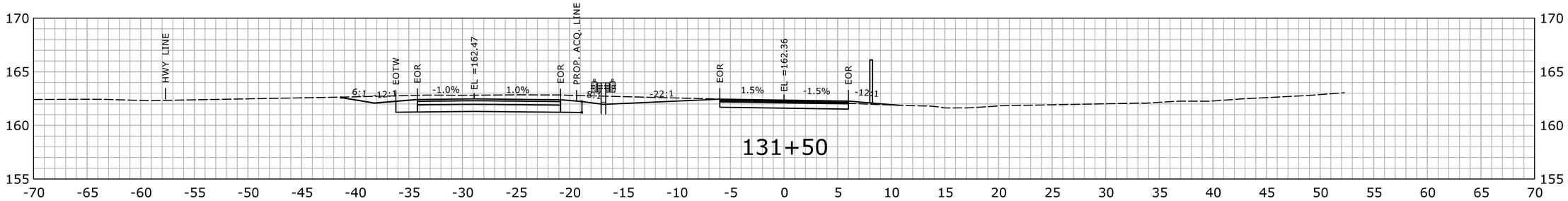
TOWN: **CHESHIRE**

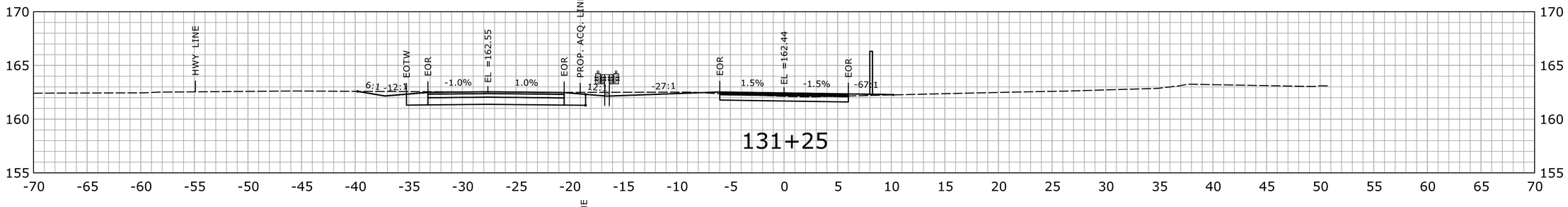
DRAWING TITLE: **CROSS SECTIONS**

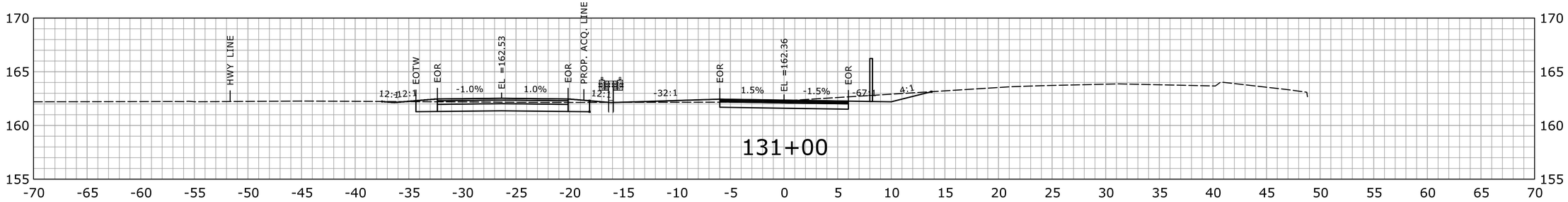
PROJECT NO. **25-145**

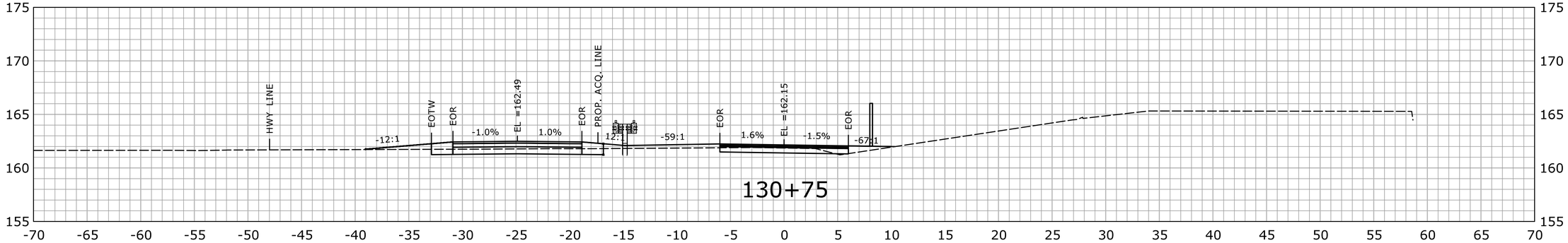
DRAWING NO. **XSC-39**

SHEET NO.









STA.130+75 TO STA.131+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

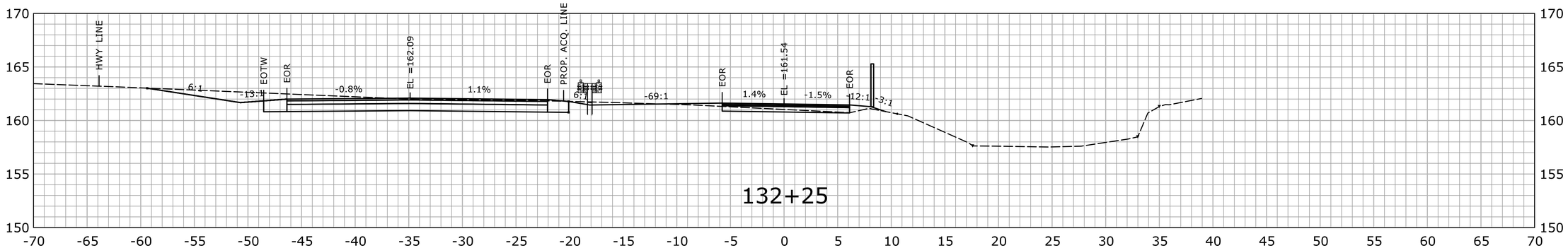
TOWN: **CHESHIRE**

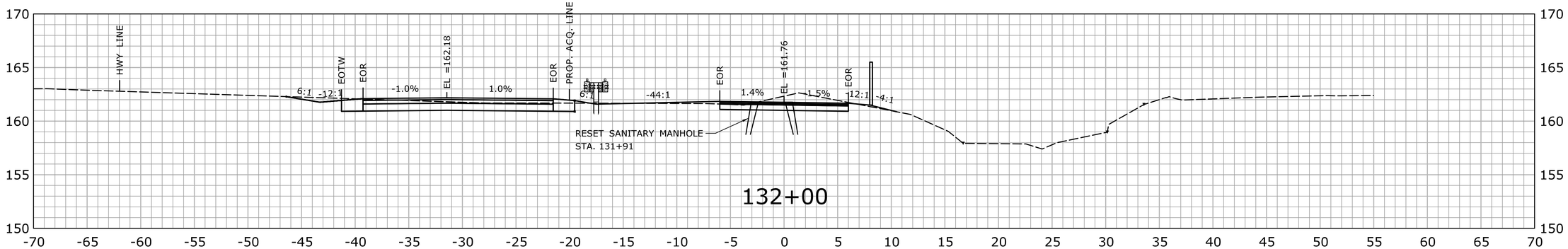
DRAWING TITLE: **CROSS SECTIONS**

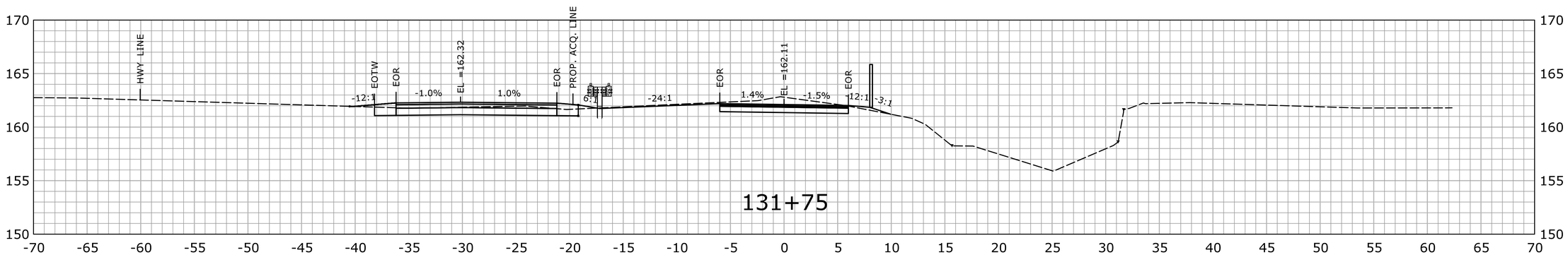
PROJECT NO. **25-145**

DRAWING NO. **XSC-40**

SHEET NO.







STA.131+75 TO STA.132+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

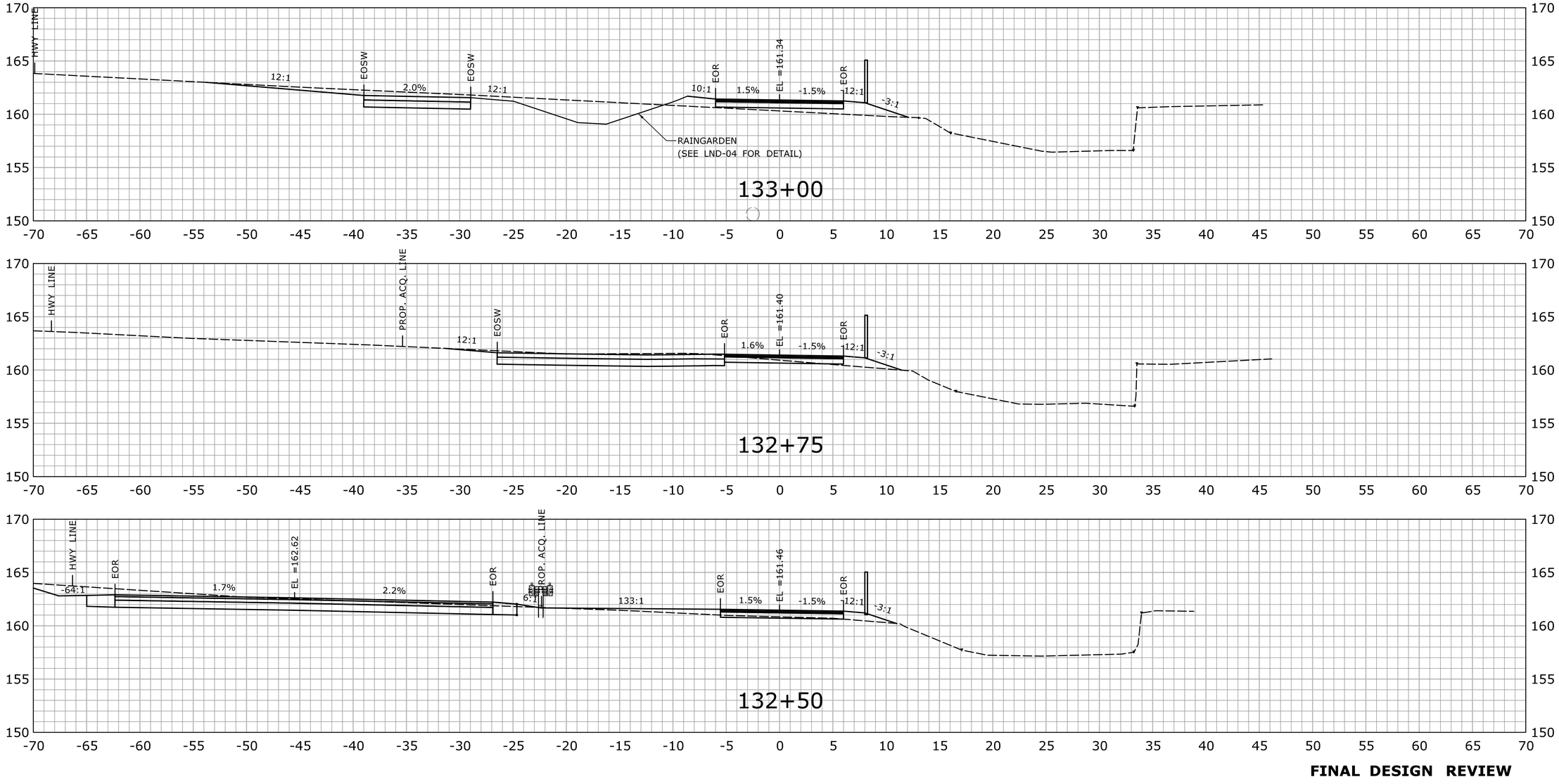
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-41**

SHEET NO.



STA.132+50 TO STA.133+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

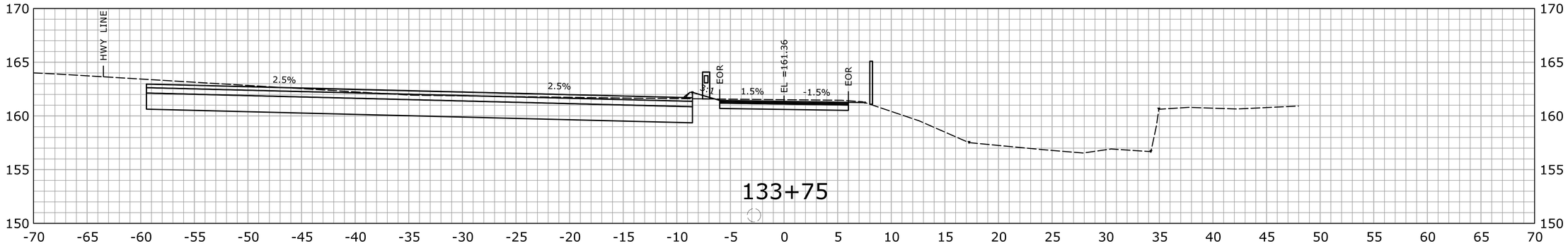
TOWN: **CHESHIRE**

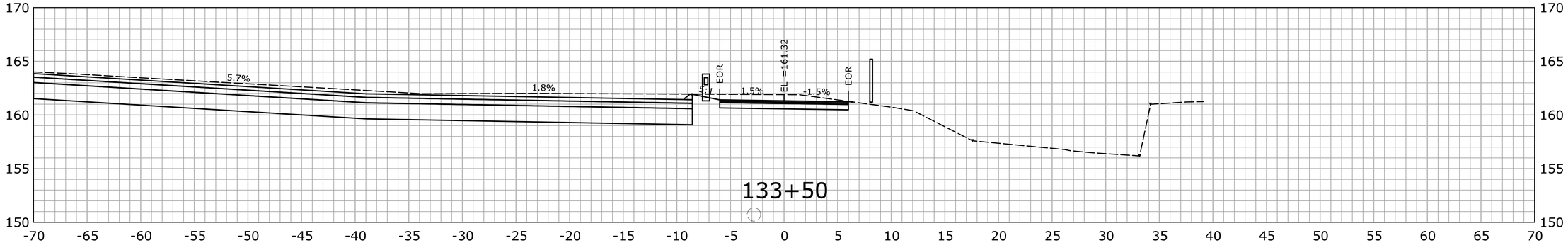
DRAWING TITLE: **CROSS SECTIONS**

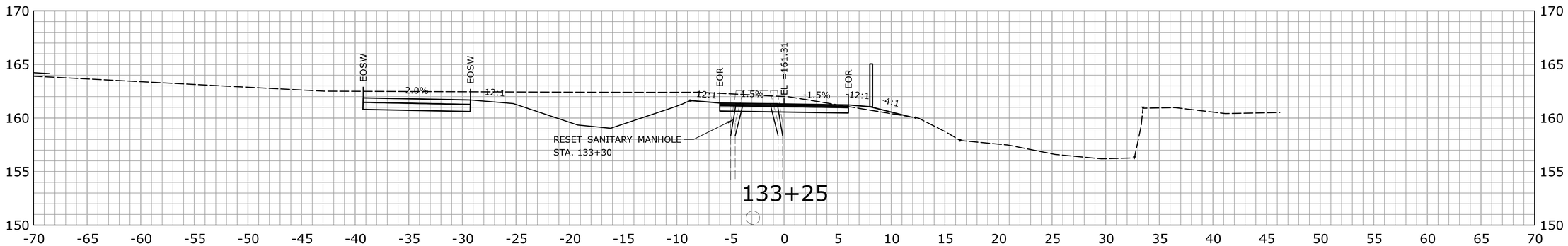
PROJECT NO. **25-145**

DRAWING NO. **XSC-42**

SHEET NO.







STA.133+25 TO STA.133+75

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

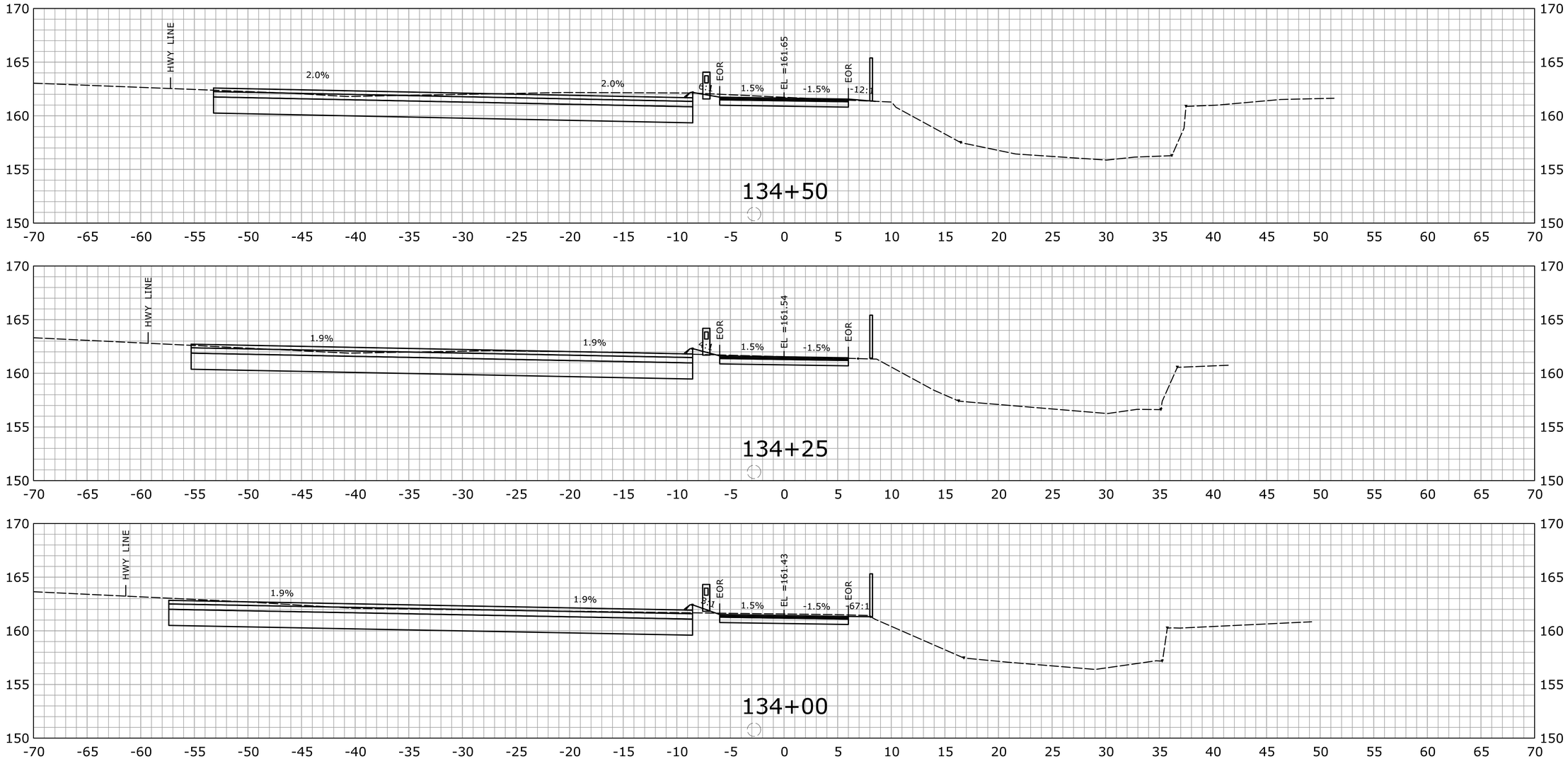
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-43**

SHEET NO.



STA.134+00 TO STA.134+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

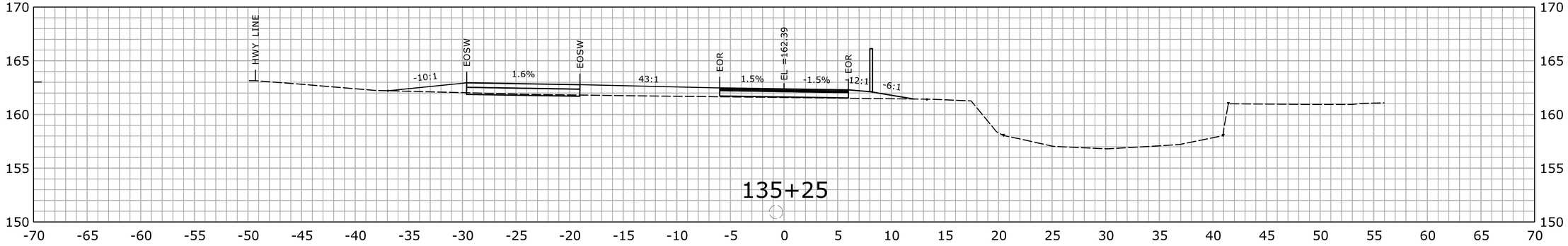
TOWN: **CHESHIRE**

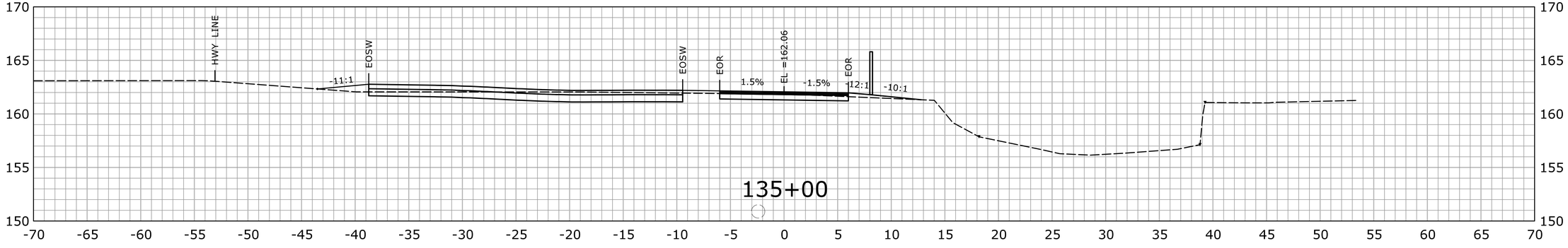
DRAWING TITLE: **CROSS SECTIONS**

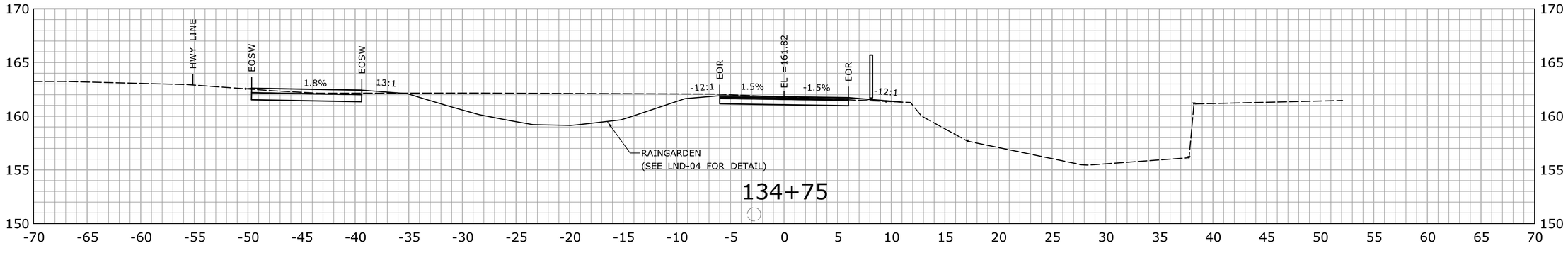
PROJECT NO. **25-145**

DRAWING NO. **XSC-44**

SHEET NO.







STA.134+75 TO STA.135+25

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

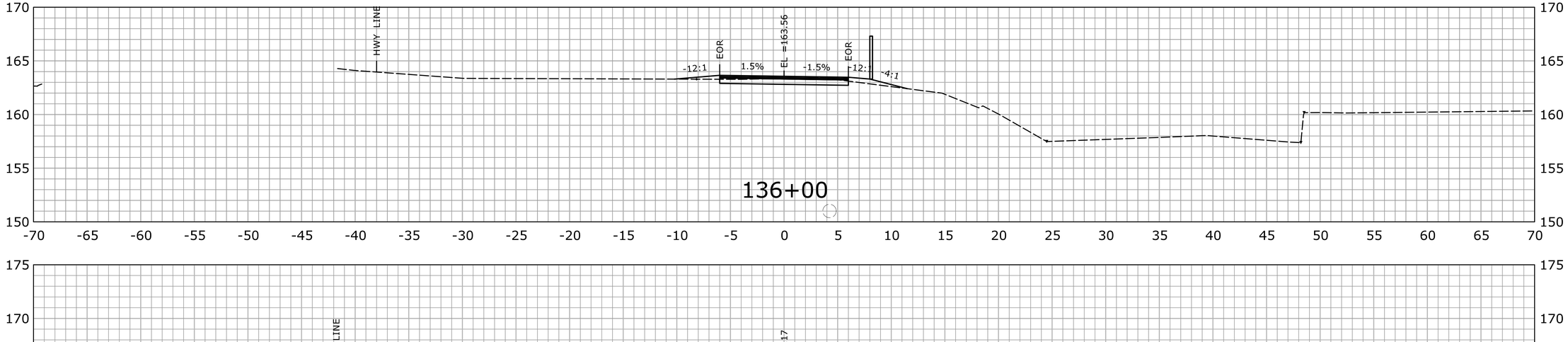
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

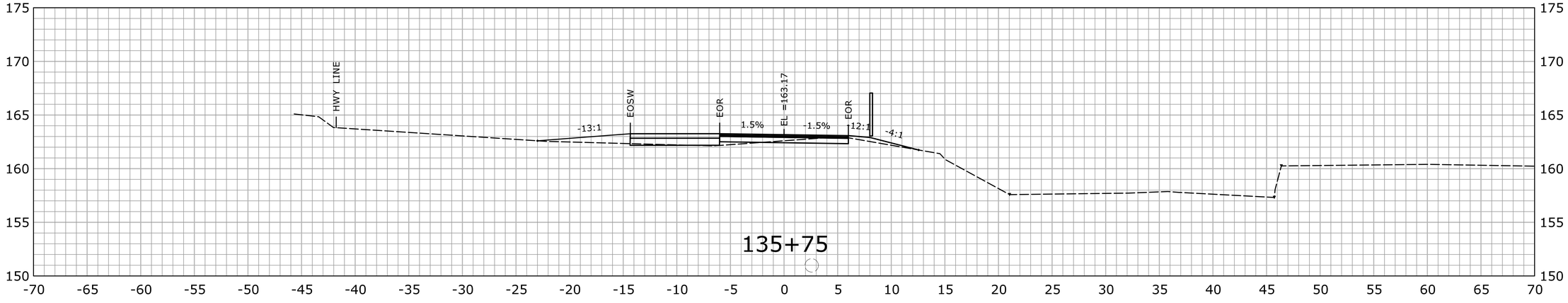
PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

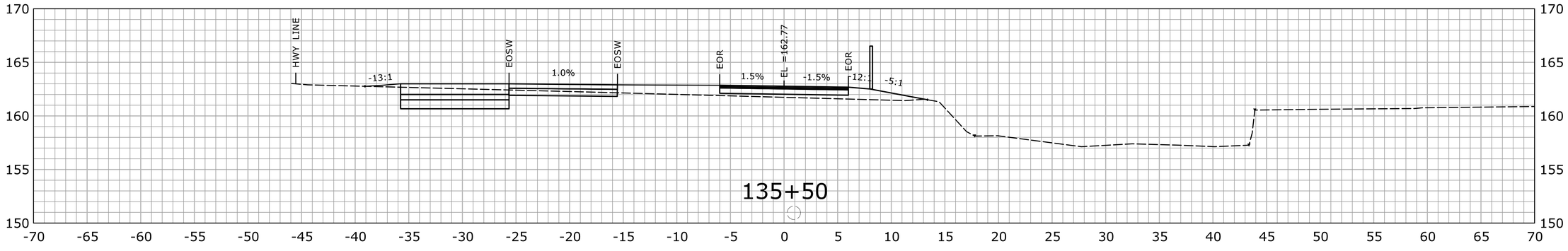
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**
DRAWING NO. **XSC-45**
SHEET NO.







STA.135+50 TO STA.136+00

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta..Design\3D..XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

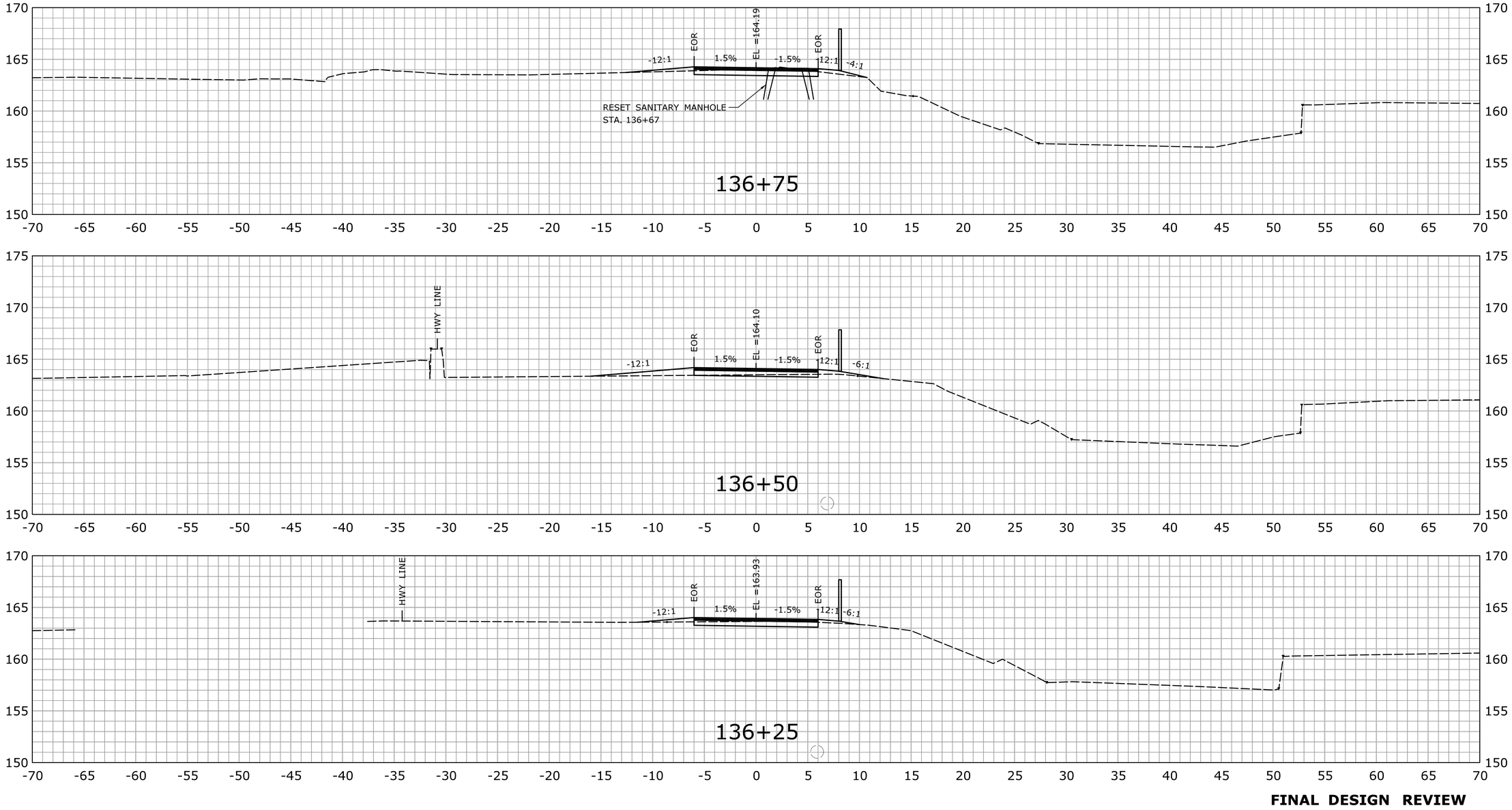
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-46**

SHEET NO.



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

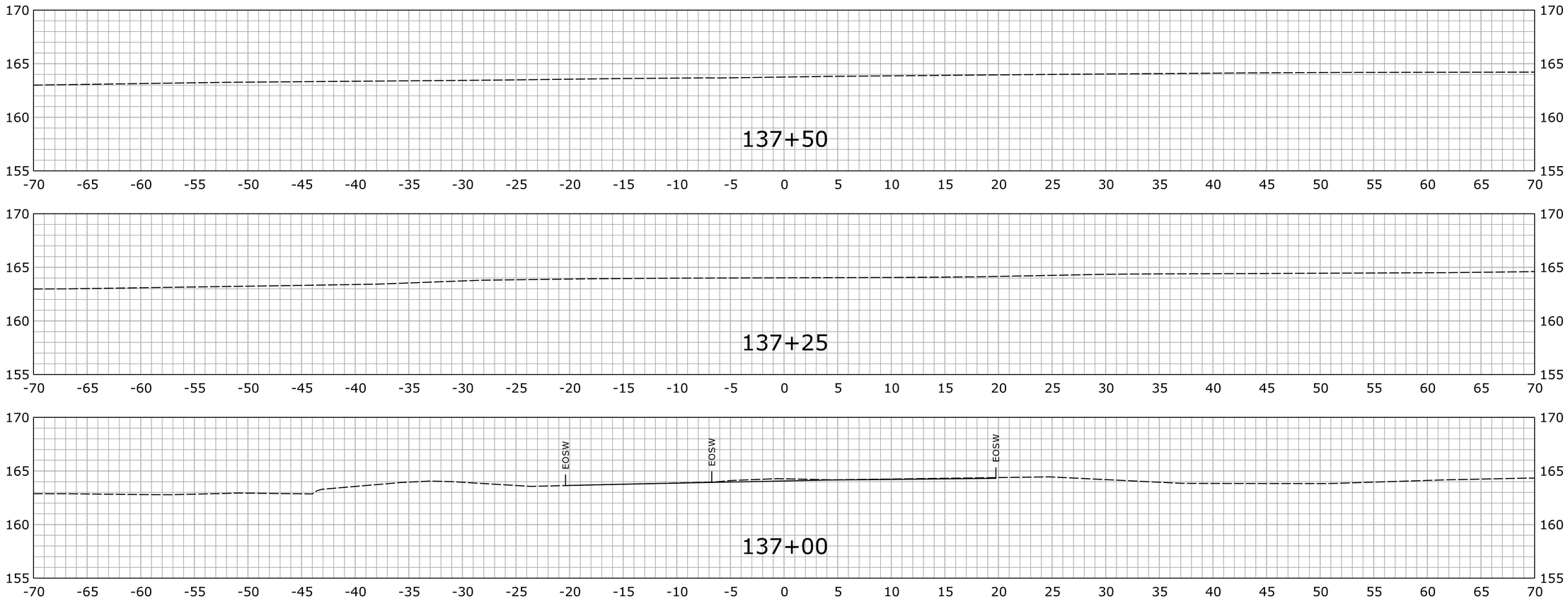
TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **25-145**

DRAWING NO. **XSC-47**

SHEET NO.



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/11/2016

DESIGNER/DRAFTER: NAI

CHECKED BY: VS

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSta_Design\3D_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **CROSS SECTIONS**

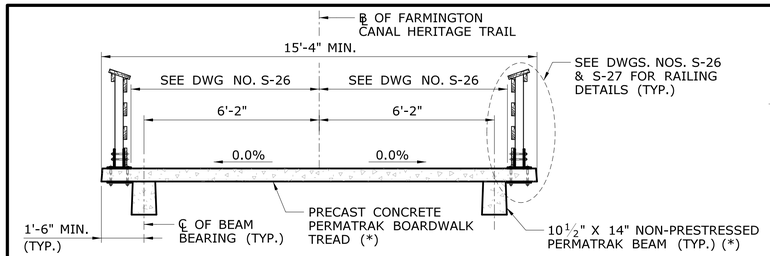
PROJECT NO. **25-145**

DRAWING NO. **XSC-48**

SHEET NO.

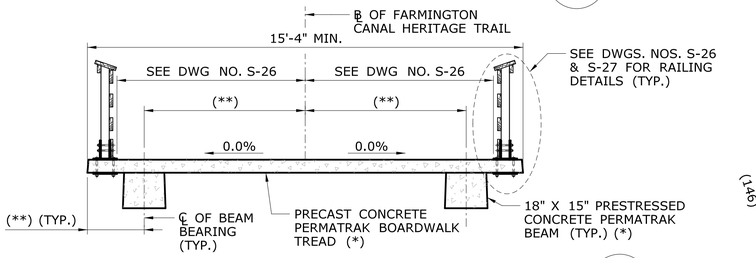
DESCRIPTION OF WORK

1. INSTALL AND TEST STEEL PIPE PILES.
2. CONSTRUCT REINFORCED CONCRETE ABUTMENTS, WINGWALLS, PIERS AND FOOTINGS.
3. INSTALL BOARDWALK BEAMS AND TREADS.
4. INSTALL WOOD RAILING.



TYPICAL STRUCTURE NO.1 SECTION — A -

SCALE: 3/8" = 1'-0"



TYPICAL STRUCTURE NO.1 SECTION AT BRIDGE NO.1 — B -

SCALE: 3/8" = 1'-0"

(*) BOARDWALK COMPONENT TO BE DESIGNED BY THE CONTRACTOR.

(**) DIMENSION TO BE DETERMINED BY THE CONTRACTOR.

PLAN - STRUCTURE NO.1

SCALE: 1" = 20'

HYDRAULIC DATA TABLE FOR STRUCTURE NO.1

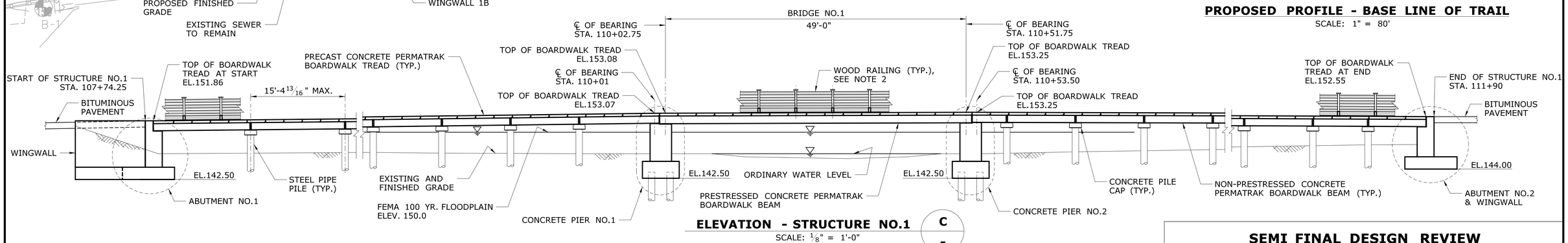
DRAINAGE AREA	1.13 (SQ. MI.)
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	466 CFS
AVERAGE DAILY FLOW ELEVATION	146 OBSERVED 6/15/2012
UPSTREAM DESIGN WATER SURFACE ELEVATION	149.51
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	149.52
MAXIMUM SCOUR ELEVATION FREQUENCY DISCHARGE	138 500 YR WITH CLIMATE CHANGE 1102 CFS
WORST CASE SCOUR SUB-STRUCTURE UNIT	CONCRETE PIERS

PROPOSED PROFILE - BASE LINE OF TRAIL

SCALE: 1" = 80'

NOTES:

1. RAILING ON PLAN NOT SHOWN FOR CLARITY.
2. RAILING SHALL BE INSTALLED ON BOTH SIDES OF BOARDWALK FOR THE ENTIRE LENGTH.
3. ALL DIMENSIONS SHOWN ARE MEASURED ALONG BASELINE.



ELEVATION - STRUCTURE NO.1 — C -

SCALE: 1/8" = 1'-0"

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/26/2016

DESIGNER/DRAFTER: RIB
CHECKED BY: BKC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_25-145_S-3_General Plan - Structure No.1.dgn

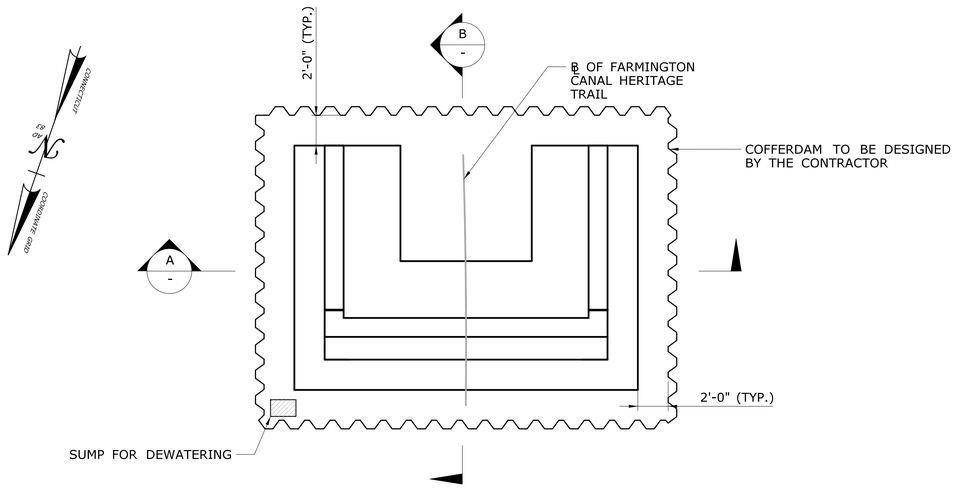
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

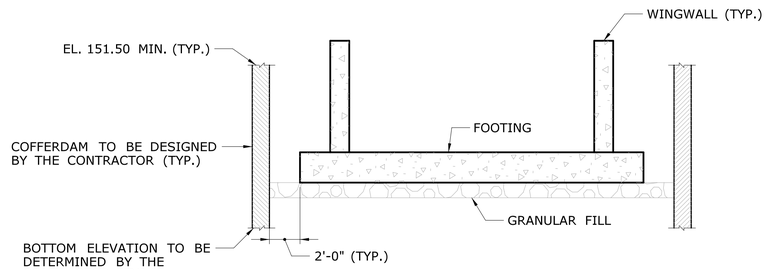
DRAWING TITLE: STRUCTURE NO.1 GENERAL PLAN

PROJECT NO. 25-145
DRAWING NO. S-3
SHEET NO.



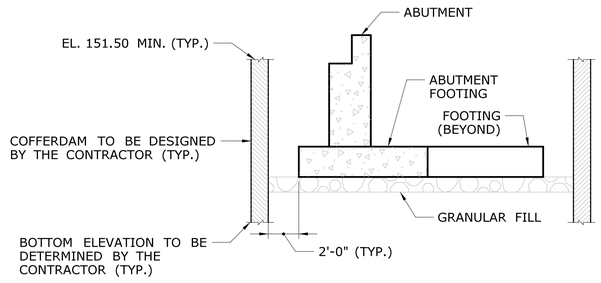
PLAN - COFFERDAM AT ABUTMENT NO.1 - STRUCTURE NO.1

SCALE: 1" = 5'



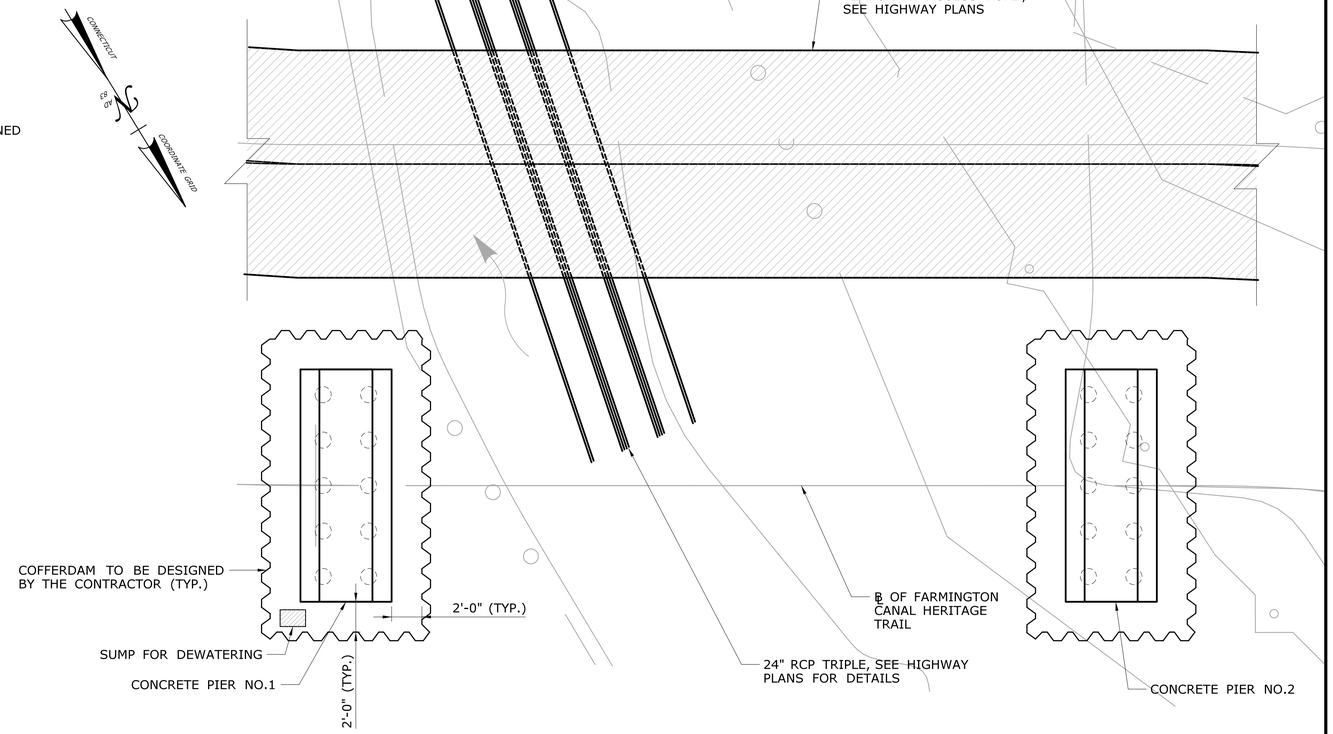
SECTION - COFFERDAM AT ABUTMENT NO.1 (A - -)

SCALE: 1" = 5'



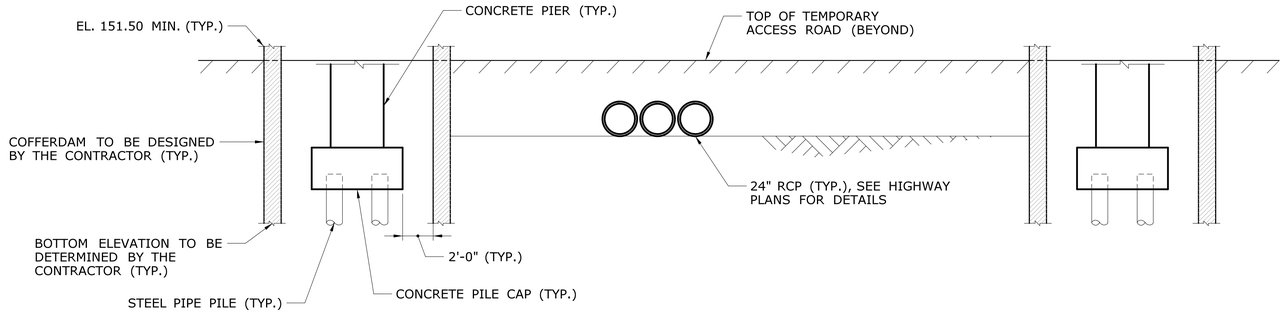
SECTION - COFFERDAM AT ABUTMENT NO.1 (B - -)

SCALE: 1" = 5'



PLAN - COFFERDAM AT CONCRETE PIER NOS. 1 & 2 - STRUCTURE NO.1

SCALE: 1" = 5'



ELEVATION - COFFERDAM AT CONCRETE PIER NOS. 1 & 2 - STRUCTURE NO.1

SCALE: 1" = 5'

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **RIB**

CHECKED BY: **BKC**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_25-145_S-10_Structure No.1-Cofferdam Details.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **FARMINGTON CANAL HERITAGE TRAIL EXTENSION**

TOWN: **CHESHIRE**

DRAWING TITLE: **STRUCTURE NO.1 COFFERDAM DETAILS**

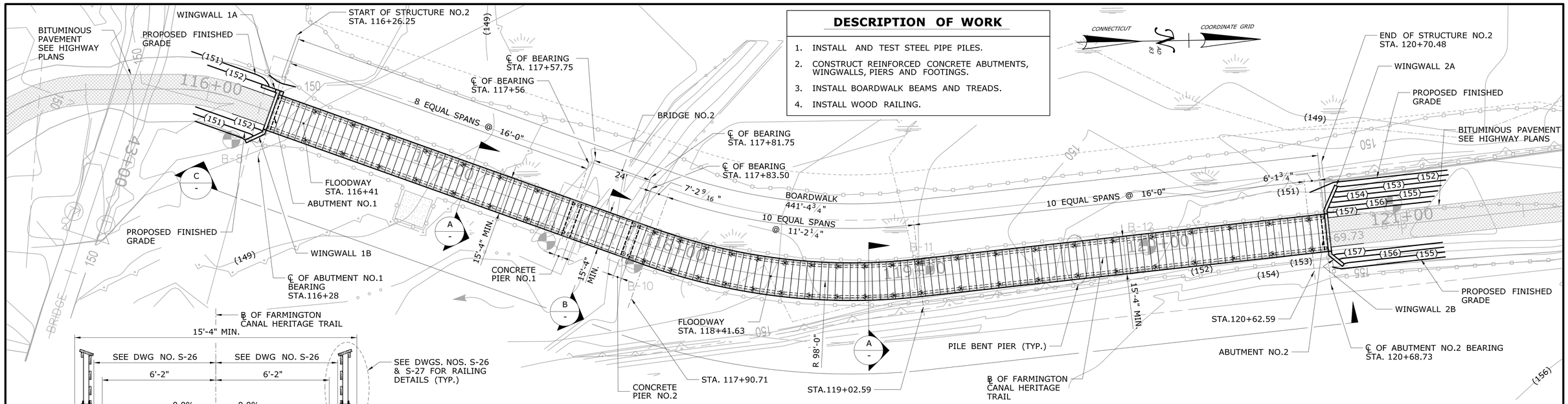
PROJECT NO. **25-145**

DRAWING NO. **S-10**

SHEET NO.

DESCRIPTION OF WORK

1. INSTALL AND TEST STEEL PIPE PILES.
2. CONSTRUCT REINFORCED CONCRETE ABUTMENTS, WINGWALLS, PIERS AND FOOTINGS.
3. INSTALL BOARDWALK BEAMS AND TREADS.
4. INSTALL WOOD RAILING.

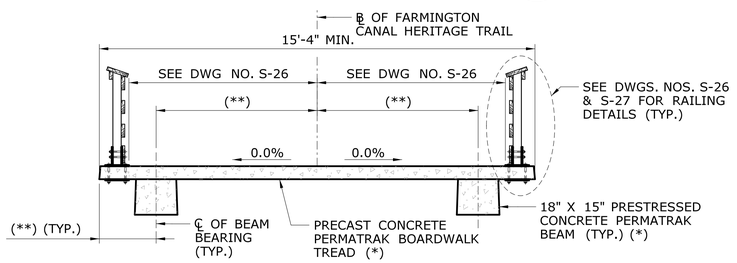


PLAN - STRUCTURE NO.2

SCALE: 1" = 20'

TYPICAL STRUCTURE NO.2 SECTION A

SCALE: 3/8" = 1'-0"



(*) BOARDWALK COMPONENT TO BE DESIGNED BY THE CONTRACTOR.

(**) DIMENSION TO BE DETERMINED BY THE CONTRACTOR.

NOTES:

1. RAILING ON PLAN NOT SHOWN FOR CLARITY.
2. RAILING SHALL BE INSTALLED ON BOTH SIDES OF BOARDWALK FOR THE ENTIRE LENGTH.
3. ALL DIMENSIONS SHOWN ARE MEASURED ALONG BASELINE.

HYDRAULIC DATA TABLE FOR STRUCTURE NO.2

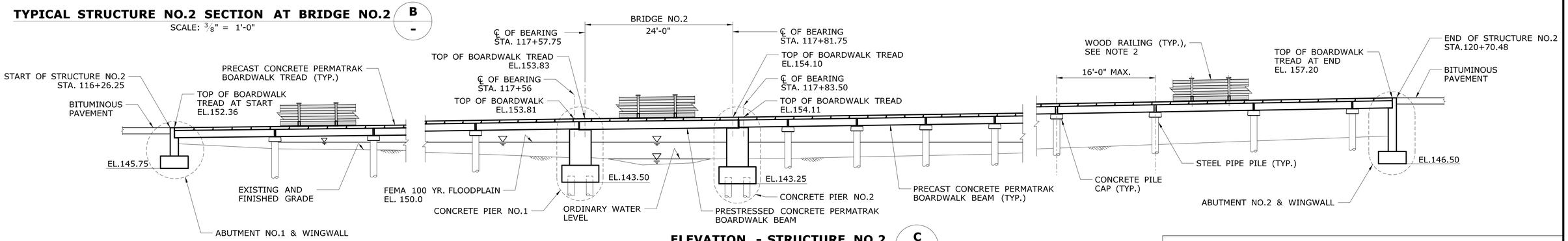
DRAINAGE AREA	1.13 (SQ. MI.)
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	466 CFS
AVERAGE DAILY FLOW ELEVATION	148 OBSERVED 6/15/2012
UPSTREAM DESIGN WATER SURFACE ELEVATION	151.43
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	151.27
MAXIMUM SCOUR ELEVATION FREQUENCY DISCHARGE	138.4 500 YR WITH CLIMATE CHANGE 1102 CFS
WORST CASE SCOUR SUB-STRUCTURE UNIT	CONCRETE PIERS

PROPOSED PROFILE - BASE LINE OF TRAIL

SCALE: 1" = 80'

TYPICAL STRUCTURE NO.2 SECTION AT BRIDGE NO.2 B

SCALE: 3/8" = 1'-0"



ELEVATION - STRUCTURE NO.2 C

SCALE: 1/8" = 1'-0"

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/26/2016

DESIGNER/DRAFTER: RIB
CHECKED BY: BKC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

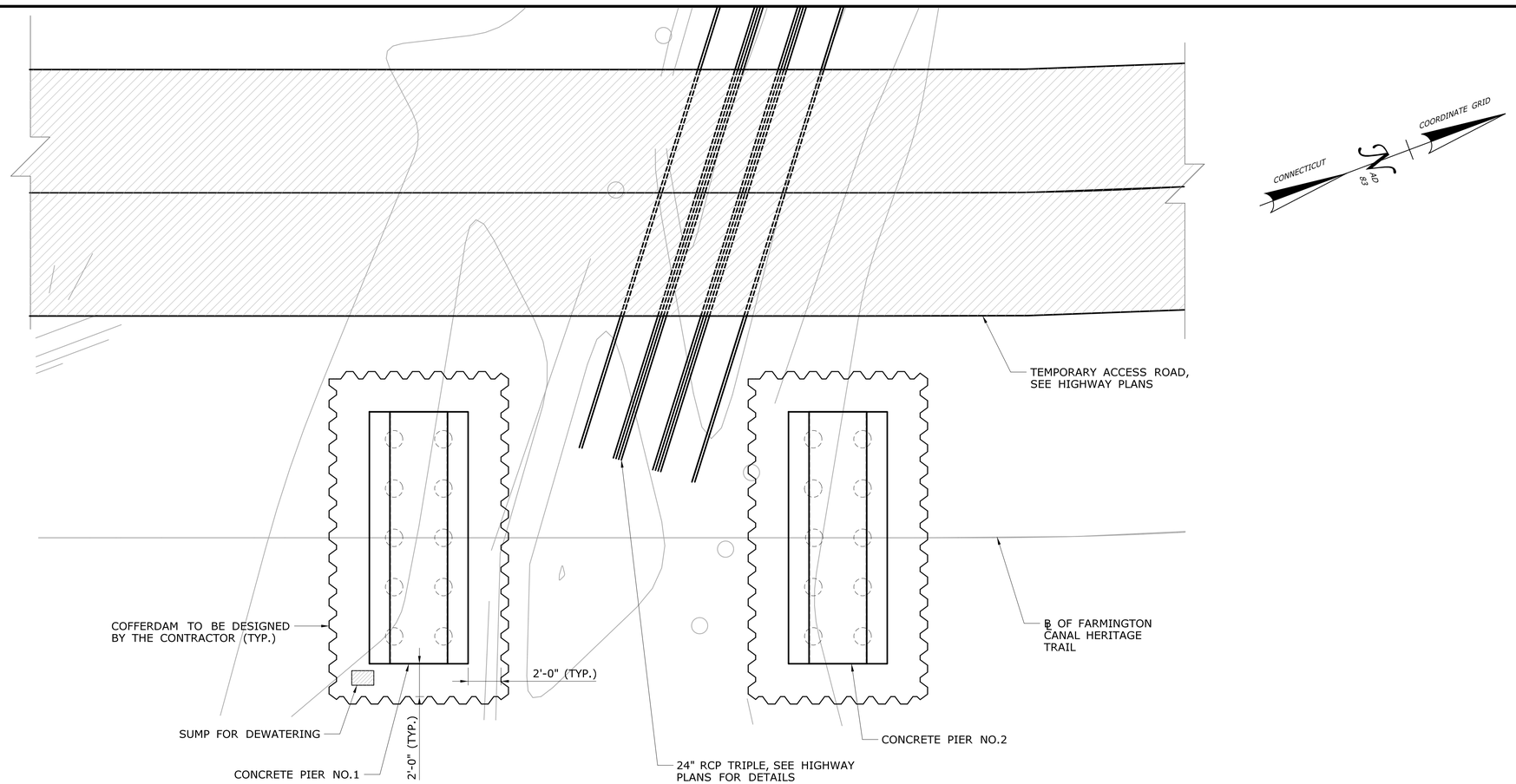
Filename: ...\SB..25-145..S-18..General Plan - Structure No.2.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

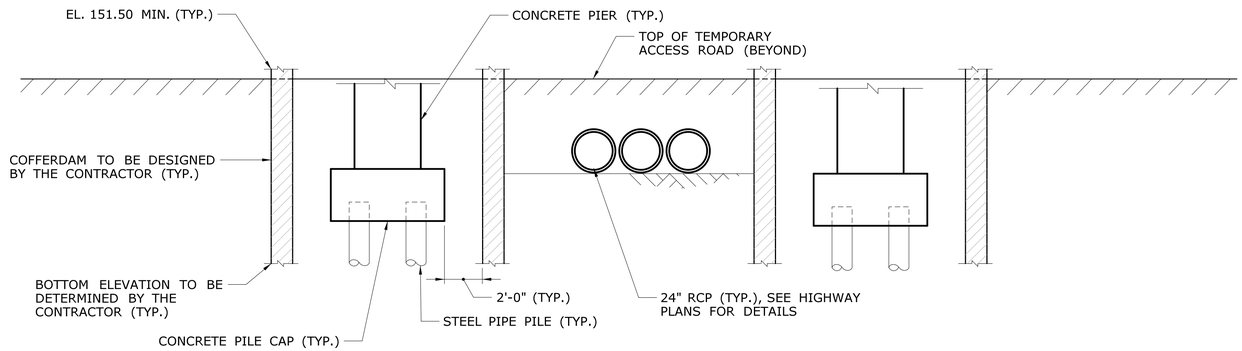
TOWN: CHESHIRE
DRAWING TITLE: STRUCTURE NO.2 GENERAL PLAN

PROJECT NO. 25-145
DRAWING NO. S-18
SHEET NO.



PLAN - COFFERDAM AT CONCRETE PIER NOS. 1 & 2 - STRUCTURE NO.2

SCALE: $\frac{1}{4}$" = 1'-0"



ELEVATION - COFFERDAM AT CONCRETE PIER NOS. 1 & 2 - STRUCTURE NO.2

SCALE: $\frac{1}{4}$" = 1'-0"

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **RIB**

CHECKED BY: **BKC**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB..25-145..S-19..Structure No.2-Cofferdam Details.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: **CHESHIRE**

DRAWING TITLE: **STRUCTURE NO.2 COFFERDAM DETAILS**

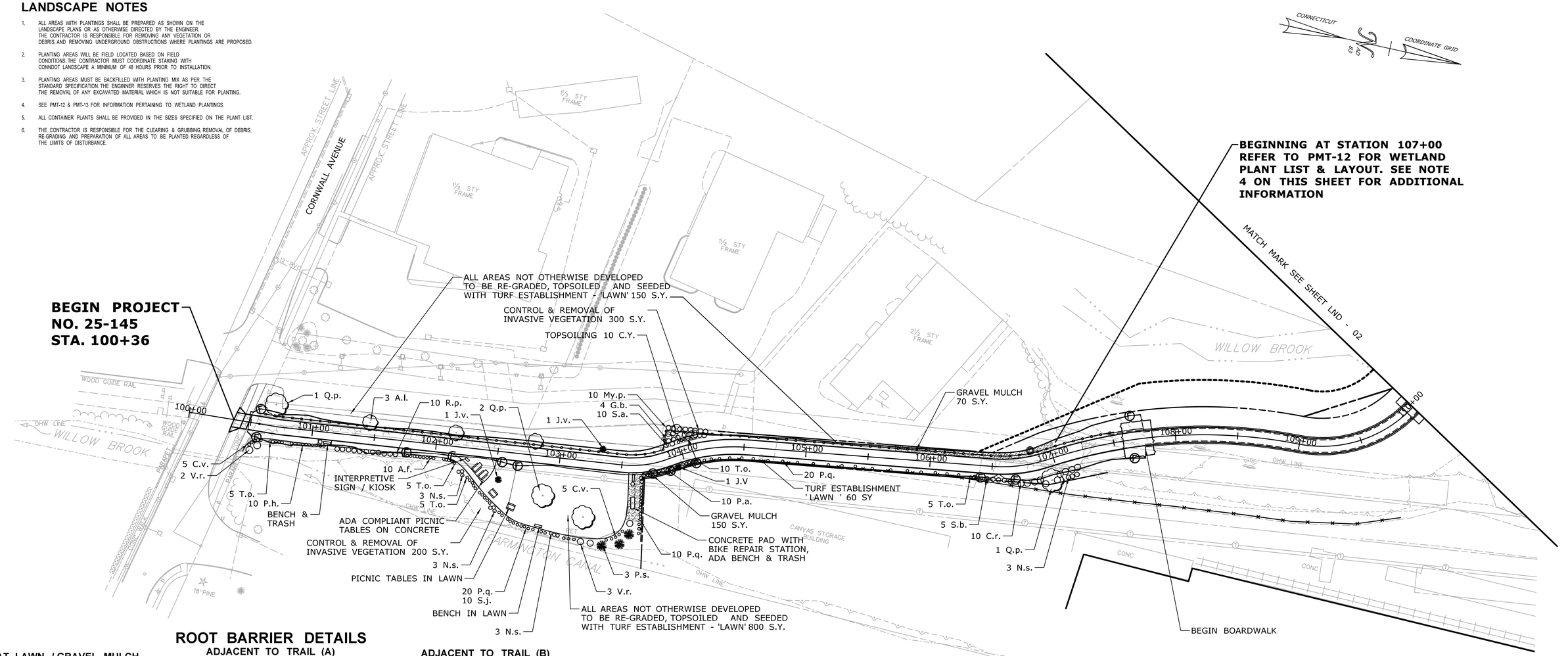
PROJECT NO. **25-145**

DRAWING NO. **S-19**

SHEET NO.

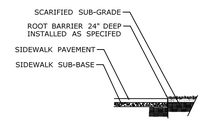
LANDSCAPE NOTES

1. ALL AREAS WITH PLANTINGS SHALL BE PREPARED AS SHOWN ON THE LANDSCAPE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY VEGETATION OR DEBRIS, AND REMOVING UNDERGROUND OBSTRUCTIONS WHERE PLANTINGS ARE PROPOSED.
2. PLANTING AREAS WILL BE FIELD LOCATED BASED ON FIELD CONDITIONS. THE CONTRACTOR MUST COORDINATE STAKING WITH CONNDOT LANDSCAPE A MINIMUM OF 48 HOURS PRIOR TO INSTALLATION.
3. PLANTING AREAS MUST BE BACKFILLED WITH PLANTING MIX AS PER THE STANDARD SPECIFICATION. THE ENGINNER RESERVES THE RIGHT TO DIRECT THE REMOVAL OF ANY EXCAVATED MATERIAL WHICH IS NOT SUITABLE FOR PLANTING.
4. SEE PMT-12 & PMT-13 FOR INFORMATION PERTAINING TO WETLAND PLANTINGS.
5. ALL CONTAINER PLANTS SHALL BE PROVIDED IN THE SIZES SPECIFIED ON THE PLANT LIST.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEARING & GRUBBING, REMOVAL OF DEBRIS, RE-GRADING AND PREPARATION OF ALL AREAS TO BE PLANTED, REGARDLESS OF THE LIMITS OF DISTURBANCE.

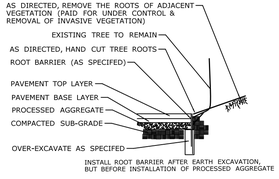


ROOT BARRIER DETAILS

AT LAWN / GRAVEL MULCH



ADJACENT TO TRAIL (A)



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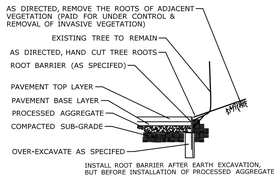
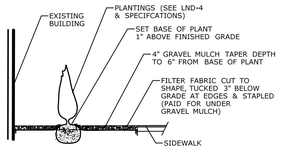


GRAVEL MULCH DETAILS

AT BUILDING FOUNDATION



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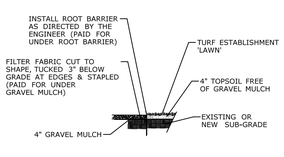
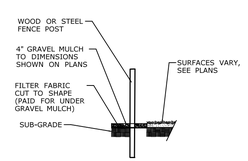


BELOW FENCING



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
A.l.	Amelanchier laevis	Allegheny Serviceberry	2"-2 1/2" Cal. B.B.	3	Cultivar 'Cumulus'
A.f.	Athyrium filex-femina	Lady Fern	1 Gallon Container	10	Cultivar 'Cumulus'
C.v.	Coreopsis verticillata	Allegheny Serviceberry	2"-2 1/2" Cal. B.B.	10	Orange
C.r.	Cornus racemosa	Grey Dogwood	24"-36" Ht. B.B.	10	• 5 Container
G.b.	Ginko biloba	Maidenhair Tree	6'-8' Ht. B.B.	4	Field Located
My.p.	Myrica pensylvanica	Northern Bayberry	24"-30" Ht. B.B.	10	6' On Center
J.v.	Juniperus virginiana	Eastern Red Cedar	4'-5' Ht. B.B.	2	Field Located
N.s.	Nyssa sylvatica	Black Gum	2'-3' Ht. B.B.	12	Field Located
P.q.	Parthenocissus quinquefolia	Virginia Creeper	2 Year No. 1 Pots	50	Field Located
P.a.	Pennisetum alopecuroides	Fountain Grass	1 Gal. Container	10	Hameln
P.h.	Penstemon hisutus	Hairy Beardstongue	1 Gal. Container	10	As Shown
* P.s.	Pinus strobus	White Pine	6'-8' Ht. B.B.	3	Field Located
R.p.	Rosa palustris	Swamp Rose	24"-36" Ht. B.B.	10	Field Located
S.j.	Solidago juncea	Early Goldenrod	1 Gal. Container	10	1 Per Grouping
S.b.	Spiraea 'Antohony Waterer'	Anthony Waterer Spirea	30" Ht. B.B.	15	4' On Center
T.o.	Tradescantia ohioensis	Spiderwart	1 Gal. Container	15	Field Located
Q.p.	Quercus palustris	Pin Oak	2½-3" Cal. B.B.	4	Field Located
V.r.	Viburnum rhytodopyllum	Leather leaf Viburnum	3'-4' Ht. B.B.	5	7' On Center

SUPPLEMENTAL ITEMS

ITEM	QUANTITY
Control & Removal of Invasive Vegetation	300 S.Y.
Topsoiling	10 C.Y.
Gravel Mulch	300 S.Y.
Turf Establishment 'Lawn'	xx S.Y.
Wood Chip Mulch	300 S.Y.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/5/2016

DESIGNER/DRAFTER: SF
CHECKED BY: MC
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Landscape\HW_MSH_LND-01.dgn

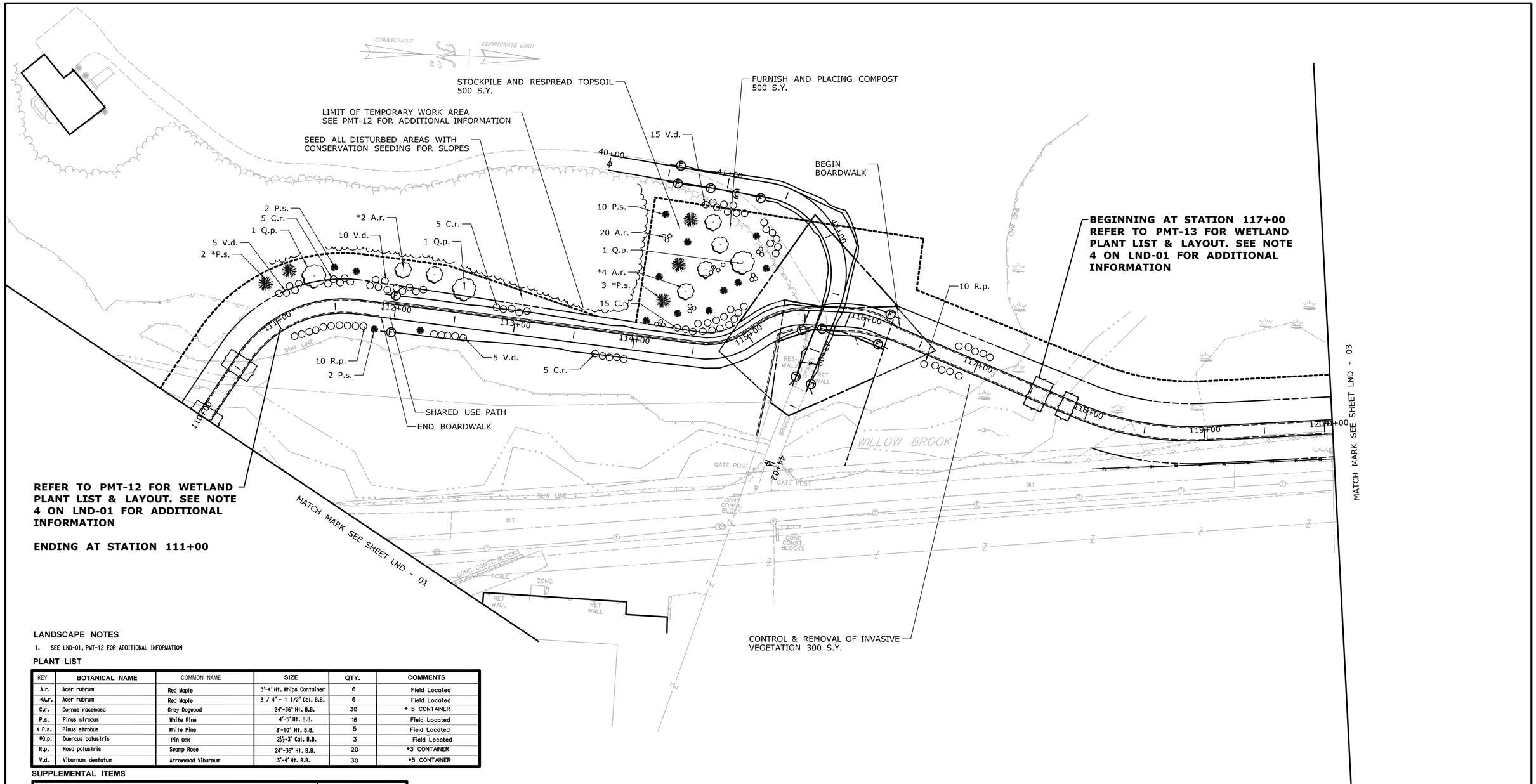
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE: LANDSCAPE DESIGN SHEET

PROJECT NO. 25-145
DRAWING NO. LDS-01
SHEET NO.



LANDSCAPE NOTES

1. SEE LND-01, PMT-12 FOR ADDITIONAL INFORMATION

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
A.r.	Acer rubrum	Red Maple	3'-4' Ht. Whips Container	6	Field Located
*A.r.	Acer rubrum	Red Maple	3 / 4" - 1 1/2" Cal. B.B.	6	Field Located
C.r.	Cornus racemosa	Grey Dogwood	24"-36" Ht. B.B.	30	* 5 CONTAINER
P.s.	Pinus strobus	White Pine	4'-5' Ht. B.B.	16	Field Located
* P.s.	Pinus strobus	White Pine	8'-10' Ht. B.B.	5	Field Located
*Q.p.	Quercus palustris	Pin Oak	2½"-3" Cal. B.B.	3	Field Located
R.p.	Rosa palustris	Swamp Rose	24"-36" Ht. B.B.	20	*3 CONTAINER
V.d.	Viburnum dentatum	Arrowwood Viburnum	3'-4' Ht. B.B.	30	*5 CONTAINER

SUPPLEMENTAL ITEMS

ITEM	QUANTITY
Control & Removal of Invasive Vegetation	300 S.Y.
Conservation Seeding for Slopes	2,000 S.Y.
STOCKPILE & PLACING TOPSOIL	500 S.Y.
FURNISH & PLACEMENT OF COMPOST	500 S.Y.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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Plotted Date: 5/5/2016

DESIGNER/DRAFTER: SF
CHECKED BY: MC
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Landscape\HW_MSH_LND-02.dgn

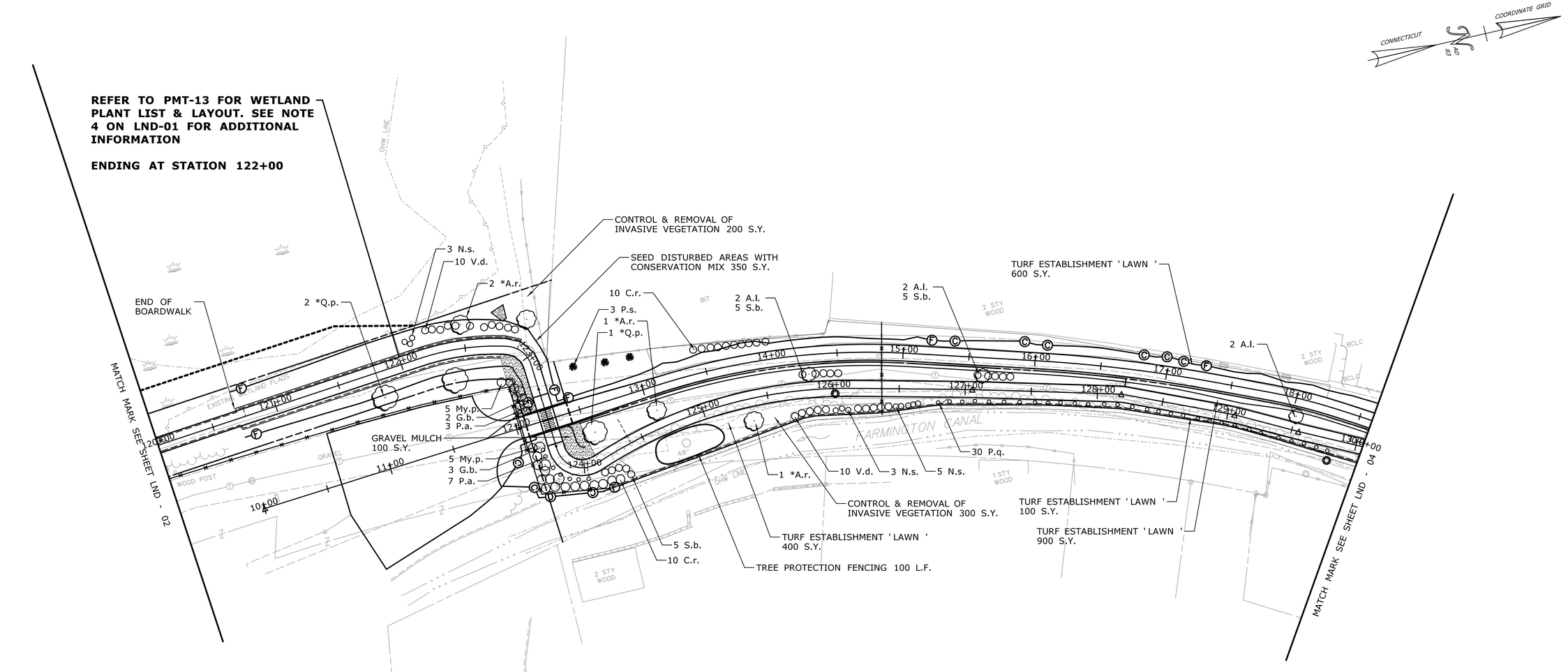
SIGNATURE/
BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE: LANDSCAPE DESIGN SHEET

PROJECT NO. 25-145
DRAWING NO. LND-02
SHEET NO.



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
* A.r.	Acer rubrum	Red Maple	3/4" - 1 1/4" Cal. B.B.	3	
A.l.	Amelanchier laevis	Allegheny Serviceberry	2"-2 1/2" Cal. B.B.	3	Cultivar 'Cumulus'
C.r.	Cornus racemosa	Grey Dogwood	24"-36" Ht. B.B.	20	• 5 Container
G.b.	Ginko biloba	Maidenhair Tree	6'-8' Ht. B.B.	5	Field Located
My.p.	Myrica pensylvanica	Northern Bayberry	24"-30" Ht. B.B.	10	Field Located
N.s.	Nyssa sylvatica	Black Gum	2'-3' Ht. B.B.	15	Field Located
P.q.	Parthenocissus quinquefolia	Virginia Creeper	2 Year No. 1 Pots	30	6' On Center
P.a.	Pennisetum alopecuroides	Fountain Grass	1 Gal. Container	10	Field Located
P.s.	Pinus strobus	White Pine	4'-5' Ht. B.B.	4	Field Located
S.b.	Spirea bumaldi 'Anthony Waterer'	Anthony Waterer Spirea	2'-3' Ht. B.B.	4	Field Located
* Q.p.	Quercus palustris	Pin Oak	2"- 2 1/2" Cal. B.B.	2	Field Located
V.d.	Viburnum dentatum	Arrowwood Viburnum	24"-36" Ht. B.B.	20	• 5 Container

SUPPLEMENTAL ITEMS

ITEM	QUANTITY
Control & Removal of Invasive Vegetation	500 S.Y.
Protective Fence	200 L.F.
Turf Establishment 'Lawn'	2,000 S.Y.
Conservation Seeding for Slopes	350 S.Y.
Gravel Mulch	100 S.Y.
Wood Chip Mulch	300 S.Y.

NOTES

1. Refer to LND-01 and PMT-13 for additional information.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/5/2016

DESIGNER/DRAFTER: SF
CHECKED BY: MC
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Landscape\HW_MSH_LND-03.dgn

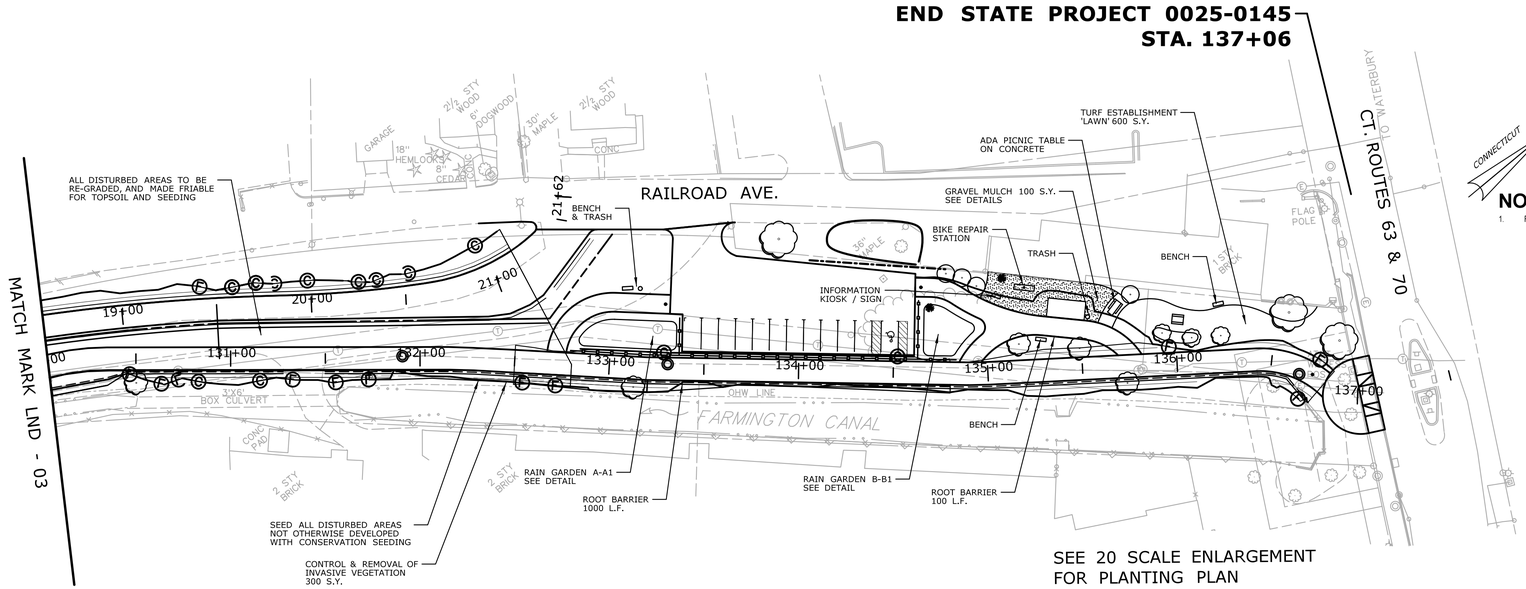
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

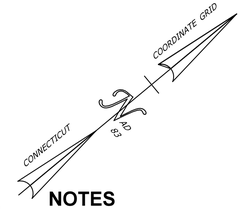
PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE: LANDSCAPE DESIGN SHEET

PROJECT NO. 25-145
DRAWING NO. LND-03
SHEET NO.





NOTES

1. Refer to LND-01 and PMT-13 for additional information.

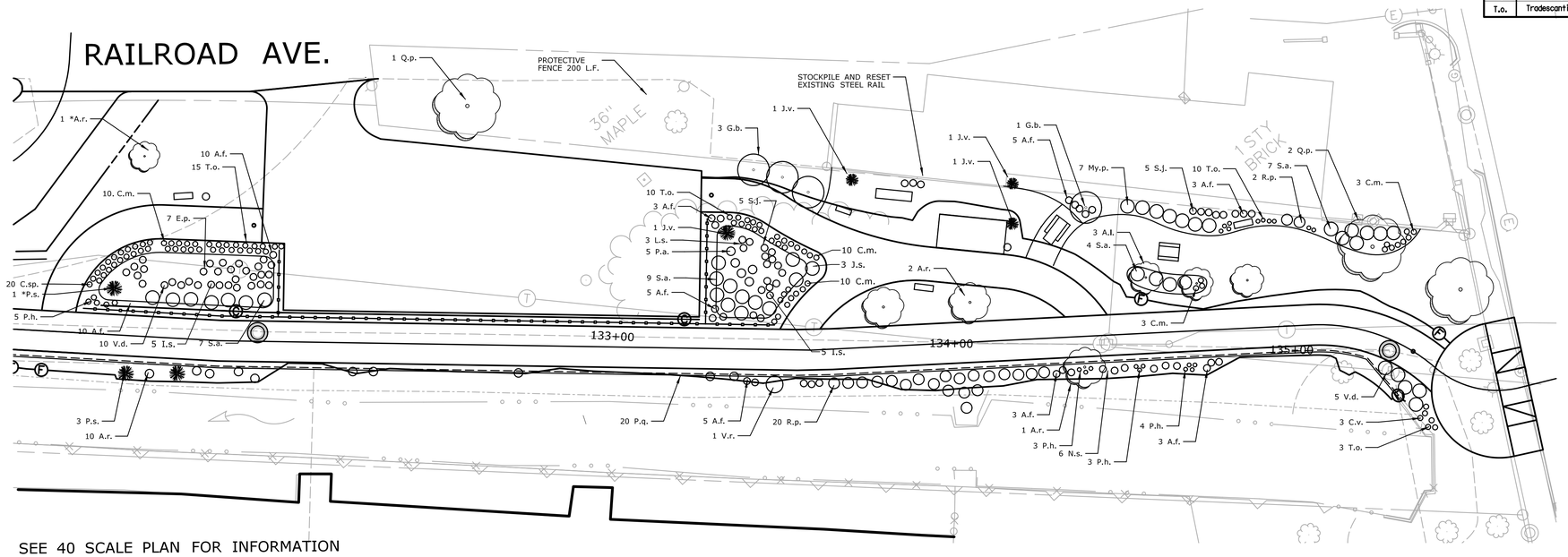
SUPPLEMENTAL ITEMS

ITEM	QUANTITY
Control & Removal of Invasive Vegetation	300 S.Y.
Protective Fence	200 L.F.
Turf Establishment 'Lawn'	2,000 S.Y.
Conservation Seeding for Slopes	350 S.Y.
Root Barrier	100 S.Y.
Furnish & Placing Compost	800 S.Y.
Stockpiling & Placing Topsoil	200 S.Y.
Topsoiling	300 C.y.
Wood Chip Mulch	500 S.Y.
Topsoiling	300 C.y.
Infiltration (3/4" Stone / Filter Fabric/ Pipe)	800 S.Y.

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
A.r.	Acer rubrum	Red Maple	3'-4' Whips	10	Field Located
A.r.	Acer rubrum	Red Maple	1 3/4"-2" Cal. B.B.	3	Field Located
A.l.	Amelanchier laevis	Allegheny Serviceberry	2"-2 1/2" Cal. B.B.	3	Cultivar 'Cumulus'
C.r.	Cornus racemosa	Grey Dogwood	24"-36" Ht. B.B.	10	• 5 Container
G.b.	Ginko biloba	Maidenhair Tree	6'-8' Ht. B.B. or C.G.	3	
J.v.	Juniperus virginiana	Eastern Red Cedar	3'-4' Ht. B.B.	30	6' On Center
My.p.	Myrica pensylvanica	Northern Bayberry	24"-30" Ht. B.B.	20	Field Located
N.s.	Nyssa sylvatica	Black Tupelo	18"-24" Ht. B.B.	9	Field Located
P.s.	Pinus strobus	White Pine	4'-5' Ht. B.B.	3	Field Located
*P.s.	Pinus strobus	White Pine	6'-8' Ht. B.B.	1	Field Located
* Q.p.	Quercus palustris	Pin Oak	2"- 2 1/2" Cal. B.B.	5	Field Located
R.p.	Rosa palustris	Swamp Rose	24"-36" Ht. B.B.	5	Field Located
S.b.	Spiraea bumalda 'Anthony Waterer'	Anthony Waterer Spirea	30" Ht. Min.	20	Field Located
V.d.	Viburnum dentatum	Arrowwood Viburnum	24"-36" Ht. B.B.	15	• 5 Container
V.r.	Viburnum rhytodopyllum	Leather leaf Viburnum	3'-4' Ht. B.B.	5	7' On Center

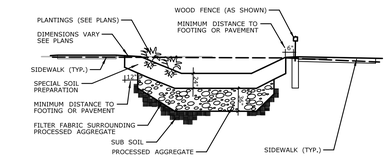
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
A.f.	Athyrium filex-femina	Lady Fern	1 Gallon Container	40	Field Located
C.sp.	Carex Spp.	Carex Spp.	1 Gallon Container	50	Pennsylvanica
C.v.	Coreopsis verticillata	Threadleaf Coreopsis	1 Gallon Container	10	Orange
E.p.	Echinacea purpurea	Purple Cone Flower	1 Gallon Container	20	White
H.s.	Helictrichen sempervirens	Blue Oat Grass	1 Gallon Container	10	4' On Center
H.sp.	Hosta Species	Hosta	1 Gallon Container	10	Varigated
I.s.	Iris siberica	Siberian Iris	1 Gallon Container	10	3' On Center
L.s.	Liatris spicata	Gay Feather	1 Gallon Container	10	3' On Center
P.q.	Parthenocissus quinquefolia	Virginia Creeper	2 Year No. 1 Pots	9	Field Located
P.a.	Pennisetum alopecuroides	Fountain Grass	1 Gallon Container	10	2 Per Grouping
P.h.	Penstemon hisutus	Hairy Beardstongue	1 Gallon Container	20	Field Located
S.j.	Solidago juncea	Early Goldenrod	1 Gallon Container	10	3' On Center
T.o.	Tradescantia ohioensis	Spiderwart	1 Gallon Container	20	3' On Center



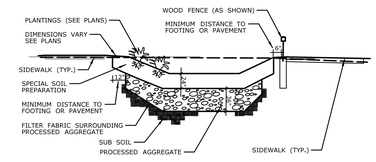
SEE 40 SCALE PLAN FOR INFORMATION PERTAINING TO TREES, SEEDING, GRAVEL MULCH & SITE AMENITIES

RAIN GARDEN DETAILS

SECTION A-A1



SECTION B-B1



AREA OF GRAVEL MULCH

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/5/2016

DESIGNER/DRAFTER: SF
CHECKED BY: MC
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Landscape\HW_MSH_LND-04.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE
DRAWING TITLE: LANDSCAPE DESIGN SHEET

PROJECT NO.
DRAWING NO. 25-145
SHEET NO. LND-04

LEGEND FOR REGULATED AREAS:

THE DEPARTMENT OF TRANSPORTATION WILL ONLY SUBMIT REVISIONS TO DEEP FOR CHANGES TO THE DESIGN THAT WILL EFFECT THE NOTED REGULATED AREAS.

- 100YR FEMA 100YR FLOOD PLAIN
- STREAMLINE
- ORDINARY HIGH WATER (OHW) LINE
- WETLAND LIMITS
- OHW + WETLAND LIMITS

GENERAL NOTES:

THE CONTRACTOR SHALL NOT DISTURB ANY REGULATED AREA OUTSIDE OF THE LIMITS OF THE NUMBERED WETLAND SITES SHOWN IN THE PLANS

LEGEND FOR LANDSCAPE ITEMS

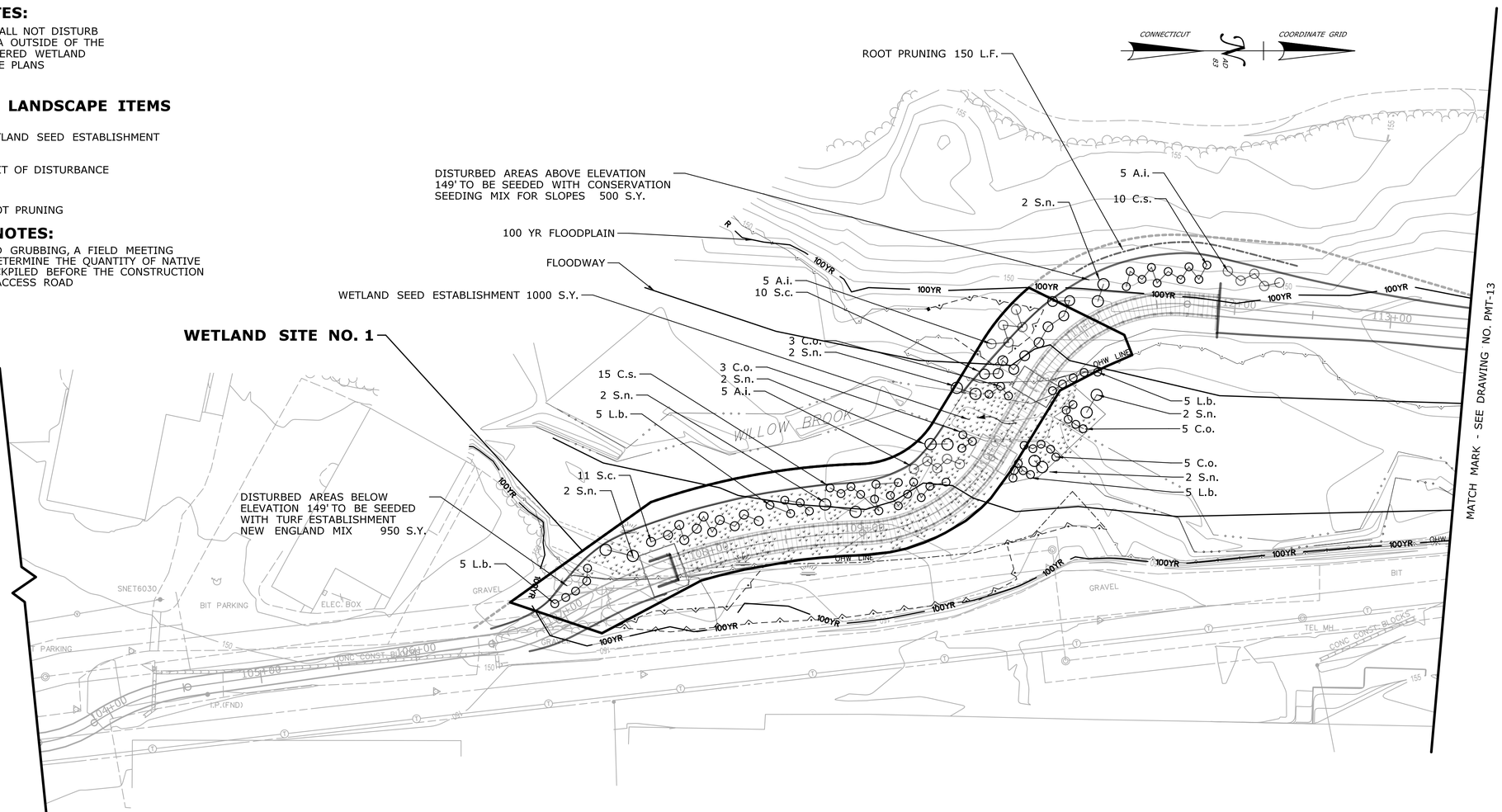
- WETLAND SEED ESTABLISHMENT
- LIMIT OF DISTURBANCE
- ROOT PRUNING

LANDSCAPE NOTES:

AFTER CLEARING AND GRUBBING, A FIELD MEETING WILL BE HELD TO DETERMINE THE QUANTITY OF NATIVE TOPSOIL TO BE STOCKPILED BEFORE THE CONSTRUCTION OF THE TEMPORARY ACCESS ROAD

DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION PLAN REVISION BLOCK

WETLAND SITE NO.	APPLICANT NAME	ORG. SUBMISSION DATE	REVISION DATE	REVISION DESCRIPTION	REV. NUMBER



WETLAND PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPACING	WETLAND RATING
A.i.	Alnus incana	Speckled Alder	2'-3' Ht. B.B.	15	8' On Center	FACW +
C.o.	Cephalanthus occidentalis	Buttonbush	24"-36" Ht. B.B.	16	6' On Center	OBL
C.s.	Cornus sericea	Red Osier Dogwood	2'-3' Ht. B.B.	25	6' On Center	FACW+
L.b.	Lindera benzoin	Common Spicebush	2'-3' Ht. B.B.	20	6' On Center	FACW-
S.n.	Salix nigra	Black Willow	24"-36" Ht. B.B.	14	10' On Center	OBL
S.c.	Sambucus canadensis	Common Elderberry	24"-36" Ht. B.B.	21	8' On Center	FACW+

▪ To be Alnus rugosa L. spp.

▪▪ To be Sambucus nigra L. ssp.

SUPPLEMENTAL ITEMS

ITEM NUMBER	DESCRIPTION	QUANTITY
0950029	TURF ESTABLISHMENT - NEW ENGLAND MIX	950 S.Y.
0950016	WETLAND SEED ESTABLISHMENT	1700 S.Y.
0950040	CONSERVATION SEEDING FOR SLOPES	500 S.Y.
0949051	CONTROL AND REMOVAL OF INVASIVE VEGETATION	400 S.Y.
0950018	FURNISH AND PLACEMENT OF COMPOST	200 S.Y.
0944106	STOCKPILING AND PLACING TOPSOIL	SEE LANDSCAPE NOTES
0950032	ROOT PRUNING	150 L.F.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/2/2015

DESIGNER/DRAFTER: SF

CHECKED BY: VS

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0025_0145_PMT-12.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE: LANDSCAPE PLAN

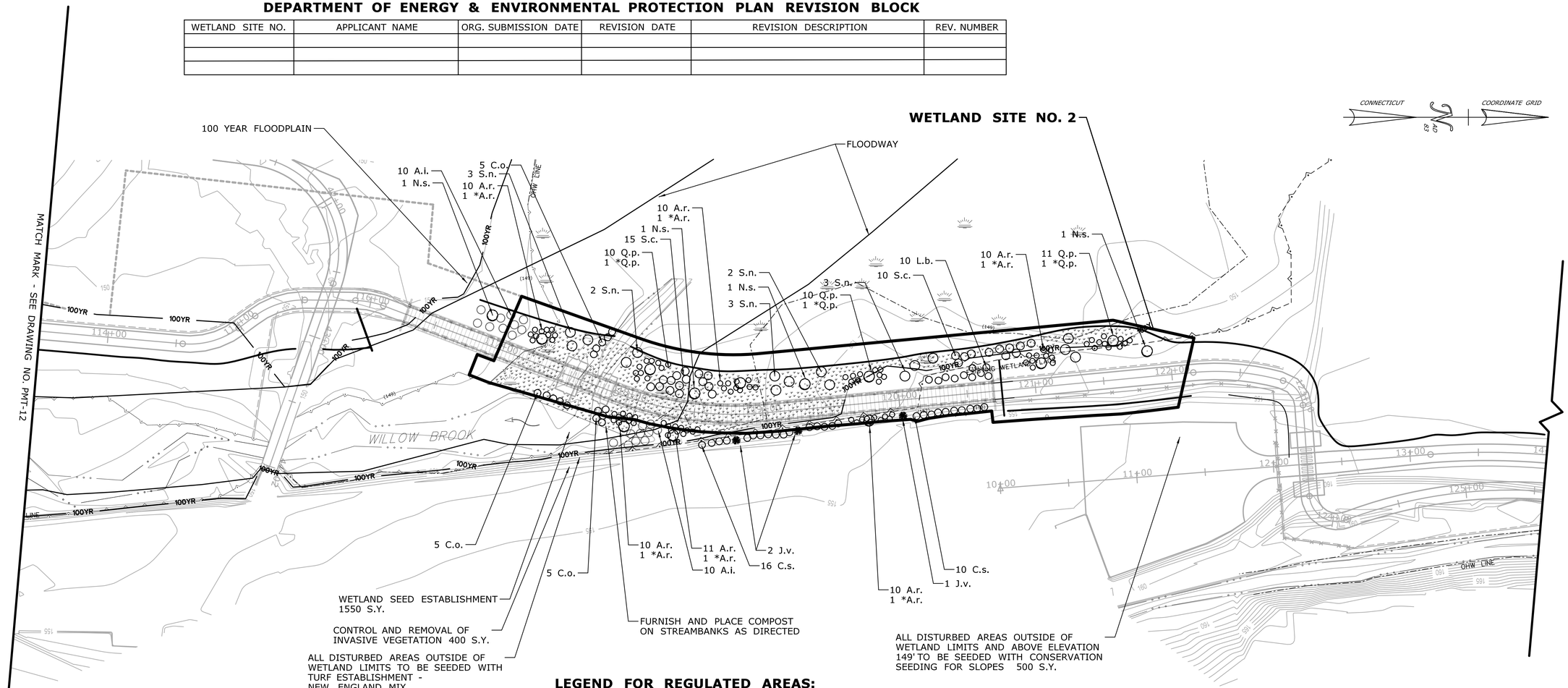
PROJECT NO. 25-145

DRAWING NO. PMT-12

SHEET NO.

DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION PLAN REVISION BLOCK

WETLAND SITE NO.	APPLICANT NAME	ORG. SUBMISSION DATE	REVISION DATE	REVISION DESCRIPTION	REV. NUMBER



WETLAND PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPACING	WETLAND RATING
A.i.	Alnus incana	Speckled Alder	2'-3' Ht. B.B.	20	8' On Center	FACW *
C.o.	Cephalanthus occidentalis	Buttonbush	24"-36" Ht. B.B.	15	6' On Center	OBL
C.s.	Cornus sericea	Red Osier Dogwood	2'-3' Ht. B.B.	26	6' On Center	FACW+
L.b.	Lindera benzoin	Common Spicebush	2'-3' Ht. B.B.	10	6' On Center	FACW-
S.n.	Salix nigra	Black Willow	24"-36" Ht. B.B.	13	10' On Center	OBL
S.c.	Sambucus canadensis	Common Elderberry	24"-36" Ht. B.B.	16	8' On Center	FACW+

* To be Alnus rugosa L. spp.
** To be Sambucus nigra L. ssp.

SUPPLEMENTAL ITEMS

ITEM NUMBER	DESCRIPTION	QUANTITY
0950029	TURF ESTABLISHMENT - NEW ENGLAND MIX	300 S.Y.
0950016	WETLAND GRASS ESTABLISHMENT	1600 S.Y.
0950040	CONSERVATION SEEDING FOR SLOPES	500 S.Y.
0949051	CONTROL AND REMOVAL OF INVASIVE VEGETATION	400 S.Y.
0950018	FURNISH AND PLACEMENT OF COMPOST	200 S.Y.
0944106	STOCKPILING AND PLACING TOPSOIL	SEE LANDSCAPE NOTES

LEGEND FOR REGULATED AREAS:

THE DEPARTMENT OF TRANSPORTATION WILL ONLY SUBMIT REVISIONS TO DEEP FOR CHANGES TO THE DESIGN THAT WILL EFFECT THE NOTED REGULATED AREAS.

- 100YR FEMA 100YR FLOOD PLAIN
- STREAMLINE
- ORDINARY HIGH WATER (OHW) LINE
- WETLAND LIMITS
- OHW + WETLAND LIMITS

GENERAL NOTES:

THE CONTRACTOR SHALL NOT DISTURB ANY REGULATED AREA OUTSIDE OF THE LIMITS OF THE NUMBERED WETLAND SITES SHOWN IN THE PLANS

LEGEND FOR LANDSCAPE ITEMS

- WETLAND SEED ESTABLISHMENT
- LIMIT OF DISTURBANCE
- ROOT PRUNING

LANDSCAPE NOTES:

AFTER CLEARING AND GRUBBING, A FIELD MEETING WILL BE HELD TO DETERMINE THE QUANTITY OF NATIVE TOPSOIL TO BE STOCKPILED BEFORE THE CONSTRUCTION OF THE TEMPORARY ACCESS ROAD

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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 THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/2/2015

DESIGNER/DRAFTER: SF
CHECKED BY: VS
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0025_0145_PMT-13.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
FARMINGTON CANAL HERITAGE TRAIL EXTENSION

TOWN: CHESHIRE

DRAWING TITLE:
PLANTING PLAN

PROJECT NO. 25-145
DRAWING NO. PMT-13
SHEET NO.

APPENDIX D

Stormwater Monitoring Report Form

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued 8/21/13, effective 10/1/13
Stormwater Monitoring Report

SITE INFORMATION

Permittee: _____

Mailing Address: _____

Business Phone: _____ ext.: _____ Fax: _____

Contact Person: _____ Title: _____

Site Name: _____

Site Address: _____

Receiving Water (name, basin): _____

Stormwater Permit No. GSN _____

SAMPLING INFORMATION (Submit a separate form for each outfall)

Outfall Designation: _____ Date/Time Collected: _____

Outfall Location(s) (lat/lon or map link): _____

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Size of Disturbed Area at any time: _____

MONITORING RESULTS

Sample #	Parameter	Method	Results (units)	Laboratory (if applicable)
1	Turbidity			
2	Turbidity			
3	Turbidity			
4	Turbidity			

(provide an attachment if more than 4 samples were taken for this outfall) Avg =

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: _____

Signature: _____ Date: _____

Please send completed form to:

DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
79 ELM STREET
HARTFORD, CT 06106-5127
ATTN: NEAL WILLIAMS

APPENDIX E

Notice of Termination Form

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Notice of Termination Form

Please complete and submit this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your termination. Print or type unless otherwise noted.

Note: Ensure that for commercial and industrial facilities, registrations under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (DEP-PED-GP-014) or the *General Permit for the Discharge of Stormwater from Commercial Activities* (DEP-PED-GP-004) have been filed where applicable. For questions about the applicability of these general permits, please call the Department at 860-424-3018.

Part I: Registrant Information

1. Permit number: ***GSN***
2. Fill in the name of the registrant(s) as indicated on the registration certificate:

   Registrant:
3. Site Address:

   City/Town: State: Zip Code:
4. Date all storm drainage structures were cleaned of construction sediment:

   Date of Completion of Construction:

   Date of Last Inspection (must be at least three months after final stabilization pursuant to Section 6(b)(6)(D) of the general permit):
5. Check the post-construction activities at the site (check all that apply):

   ☐ Industrial ☐ Residential ☐ Commercial ☐ Capped Landfill

   ☐ Other (describe):

Part II: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)

Note: Please submit this Notice of Termination Form to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127