Town of Coventry, CT

May 27, 2025

WP-25-11

Wetlands Permitting

Status: Active

Submitted On: 5/23/2025

Primary Location

41.752130, -72.282610

Owner

No owner information

Applicant

Cora Ottaviani
413-262-0026
cora.ottaviani@gza.com
95 Glastonbury Blvd
Glastonbury, CT 01103

Applicant/Owner Information: Please note that "?" bubbles throughout the application provide additional helpful information when hovered over.

Applicant Information

Applicant's Association to Owner:*

Engineer

Applicant Business Name (if applicable)

GZA GeoEnvironmental, Inc.

Owner Information

Owner Name

Town of Coventry

Owner Phone Number

860-742-4078

Owner Email Address

tpenney@coventry.org

Owner Address

1712 Main Street Coventry, CT 06238

Additional Information

Additional Agent, Engineer, Contractor Information (if applicable):

Steve D'Ambrosio (P.E.) at 413-726-2126 or steven.dambrosio@gza.com.

Wetlands Permitting

Type of Wetlands Application:*

Regulated Activity Application

Regulated Activity Being Applied For: *

Activity Within a Designated Wetlands or Watercourse

Activity/Project Information

Description of Proposed Activity(s):*

Install a six (6) inch water main extending from the existing system on Upton Drive, east along South Street Extension and south down to 225 Plains Road.

Distance in Feet from Regulated Wetlands/Watercourse:*

5

Square feet of Wetlands, Watercourse and/or Regulated Area Impacted:

35,365 square feet of Upland Review Area; 200 square feet of unnamed watercourse

Describe measures (if any) that will be taken to minimize the impact on wetlands, watercourses, and the regulated areas:

Prior to the initiation of the proposed work, appropriate erosion and sediment controls including silt fencing and straw wattles will be installed along the limits of the Site, as shown in the attached plan set. Sedimentation protection is also planned for the roads' storm drain inlets (e.g., catch basins).

Any additional and/or pertinent information:

The installation of the water main and the 10-foot-wide gravel access road in the forested section of South Street Extension will result in about 24,815 square feet (0.57 acres) of permanent impact to the URA of the unnamed watercourse (Series A flags). The installation of the 78-inch diameter CMP will result in approximately 200 square feet (0.005 acres) of permanent impact to the unnamed watercourse. The culvert will have a width that spans 1.2 times the bankfull width of the watercourse, per the Stream Crossing Guidelines. The culvert will also have an Openness Ratio of > 0.82, as recommended in the Stream Crossing Guidelines. The bottom half of the pipe will be infilled with streambed material to maintain existing streambed geometry and slope. The installation of the water main within the eastern, gravel portion of the South Street Extension and Plains Road will result in an estimated 10,550 square feet (0.24 acres) of temporary impact to the URAs onsite. The URAs are already impacted by the existing gravel/paved roads. No widening of the road is proposed, and therefore no impacts to the Series B, C, or D regulated resources are anticipated.

Is any portion of the property on which the regulated activity is proposed located within 500 feet of an adjoining municipality?*

No

Acknowledgments

MANDATORY PRE APPLICATION FOR ALL LAND USE, HEALTH, AND BUILDING APPLICATIONS Except for interior work in existing buildings and exterior work that does not expand or alter the footprint of an existing building. Effective October 1, 2005 no Land Use, Health or Building application for a permit may be filed until the holder(s) of any conservation restriction or preservation restriction on the subject property has been notified. Please see the attached legislation, PA 05-124. Please provide the name of the property owner(s) and street address of the property for which one of the above applications will be submitted and complete either A or B below. Property Owner(s): Address of Pemit Application: A. I hereby certify there are NO conservation easements or restrictions nor any preservation restrictions on the above referenced propeerty. B. There ARE conservation easements or restrictions or preservation restrictions on the above referenced property. Name/Phone Number of Restriction Holder: Please attach one of the following: I. Proof that the holder of the conservation or preservation restriction was notified by certified mail return receipt requested of the property owner's intent to apply for a Land Use, Health or Building permit in the [[orgFullName]]. 2. A letter from the conservation or preservation restriction holder verifying that the application is in compliance with the terms of the restriction.*

☑

I HEREBY ACKNOWLEDGE AND CERTIFY THAT I'M PERSONALLY FAMILIAR WITH ALL THE INFORMATION PROVIDED IN THIS APPLICATION AND THAT ALL STATEMENTS AND REPRESENTATIONS MADE ARE TRUE TO THE BEST OF MY KNOWLEDGE. I FURTHER CERTIFY THAT I AM AWARE OF THE PENALTIES FOR OBTAINING A PERMIT THROUGH DECEPTION OR THROUGH INACCURATE OR MISLEADING INFORMATION.*

☑

The undersigned electronic signature hereby grants permission to this Agency and its Agent to conduct any necessary inspections of this property, at reasonable times, both before and after the permit in question has been granted by the Agency/Agent.*

☑

I agree that my electronic signature below warrants the truth of all statements contained herein and in all supporting documents according to the best of the Agent &/or Owner(s) knowledge and belief, and that it is equivalent to a handwritten signature and is binding for all purposes related to this transaction.*

Cora Coppa Ottaviani
May 23, 2025

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Inland Wetlands Permitting Application

Plains Road Water Main Ext. South Street Extension Project
Town of Coventry
Coventry, CT

May 23, 2025
File No. 05.0047144.01

PREPARED FOR:
Town of Coventry
1712 Main Street
Coventry, CT 06238

GZA GeoEnvironmental, Inc.
1350 Main Street, Suite 1400 | Springfield, MA 01103
413-726-2100

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May 23, 2025
GZA File No. 05.0047144.01

Town of Coventry
Inland Wetlands Agency
1712 Main Street
Coventry, CT 06238

RE: Wetlands Permitting Application
Proposed Plains Road Water Main Ext. South Street Extension Project
South Street Extension/Plains Road
Coventry, CT 06238

Dear Inland Wetlands Agency Members:

On behalf of the Town of Coventry ("Applicant"), GZA GeoEnvironmental, Inc. is pleased to submit the enclosed Wetlands Permitting application for a proposed water main extension project located along the South Street Extension and Plains Road rights-of-way in Coventry, CT (the "Project").

The proposed work involves 1) installing a culvert crossing for a watercourse within the undeveloped portion of the South Street Extension right-of-way, and 2) installing a water main within the Upland Review Areas (URAs) to wetland resources. These wetland resources are under the jurisdiction of the Connecticut Inland Wetlands and Watercourses Act and the Town of Coventry Inland Wetlands and Watercourses Regulations.

Enclosed is a Town of Coventry Wetlands Permitting application and supporting documentation for your review and anticipated approval. If you have any questions, please feel free to contact Steve D'Ambrosio at 413-726-2126 or steven.dambrosio@gza.com.

Very truly yours,
GZA GeoEnvironmental, Inc.

Steven T. D'Ambrosio, P.E.
Project Manager

Robin Casioppo, PSS, PWS, CWB®, CESSWI
Consultant / Reviewer

Stephen L. Lecco, AICP, CEP, PWS
Principal-in-Charge

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1.0 EXISTING CONDITIONS

The purpose of the project is to provide drinking water to several residences along Plains Road. Connecticut Water Company currently has an existing six-inch water main (the Nathan Hale water main) located on Upton Road. Upton Road intersects with South Street Extension at the western end of the Site. Multiple residential homes on Plains Road have sodium and chloride levels above the Connecticut Department of Health's Drinking Water Action Levels in their drinking water; therefore, provisions for municipal water service are needed. Servicing the affected residents requires the extension of the water main from Upton Road to the residences along Plains Road.

The Site is approximately 6.5 acres in size and includes roughly 3,200 linear feet of South Street Extension, and about 900 linear feet of Plains Road in Coventry, Connecticut. The Site also includes approximately 900 linear feet of an overgrown, forested section between the paved portion (western section) and gravel portion (eastern section) of South Street Extension (**Figures 1** and **2**). These roads are primarily rural, a mix of gravel and pavement, and provide access to multiple residential properties.

There are three watercourse/wetlands adjacent to the proposed work:

- An intermittent stream that flows from west to east along the southern side of the forested portion of South Street Extension to the western edge of the existing Eversource right-of-way (**Figure 5A**);
- A narrow, man-made intermittent stream along the south side of the gravel portion of South Street Extension just east of the Eversource right-of-way, that flows to the east, conveying roadway/driveway runoff and groundwater seepage from the adjacent land to downstream areas (**Figure 5A** and **5B**); and
- A scrub/shrub wetland bordering the north and south sides of the gravel portion of South Street Extension approximately 430 feet west of the intersection with Plains Road. This resource area is partially fed by the aforementioned wetland resource (man-made intermittent stream along South Street Extension). This wetland connects under the road via a 24" diameter RCP. This wetland is within FEMA Special Flood Hazard Zone A (**Figure 5B**).

1.1 REGULATED RESOURCES

In September 2024 and May 2025, GZA wetland scientists completed a soils assessment and wetland delineation of the Site. The intention of the assessment was to evaluate whether regulated wetland resources pursuant to the State of Connecticut Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45), the Town of Coventry Inland Wetlands and Watercourses Regulations, and Section 404 of the Federal Clean Water Act as administered by the U.S. Army Corps of Engineers are present on the Site, and map the approximate extents of regulated wetland resources observed to establish Upland Review Areas (URA) at the Site. The approximate extents of these regulated wetland resources can be viewed in **Figures 5**, **5A**, and **5B**. Data forms for Wetland Series B and C can be found in **Appendix F**.

A review of the December 2024 Natural Diversity Data Base Areas map indicates that the Site is not located within an area identified as potentially containing State Listed Species (**Figure 3**).

1.1.1 SOILS EVALUATION

Bedrock, Surficial Geology and Soil Associations: The underlying geologic structure at the Site is mapped as Waterford Group and Tatnic Hill Formation[1]. The surficial geology consists of Thick Till; Till; Sand and gravel; Sand and gravel overlying sand overlying sand and gravel; and Swamp deposits overlying sand[2].

NRCS Soils Mapping: Figure 4 shows the NRCS soils mapping for the Site. These soil series descriptions[4] and field observation descriptions are detailed below. The soil series were confirmed in the field in the general locations as presented in the NRCS mapping. Further description of observed hydric indicators can be found in Section 1.1.2.

Canton and Charlton: Well drained soils in a loamy mantle underlain by sandy till. The Canton and Charlton soil series are on nearly level to very steep moraines, hills, and ridges. Saturated hydraulic conductivity is moderately high or high in the solum and high or very high in the substratum. This soil type is mapped beneath and adjacent to eastern portions of South Street Extension, and within the overgrown, forested section between the western and eastern portions of South Street Extension. This soil type was confirmed in the mapped upland areas immediately adjacent to the Site.

Raypol: Very deep, poorly drained soils which are formed in loamy over sandy and gravelly outwash, found in nearly level or gently sloping hallow drainageways and low-lying positions on terraces and plains. Hydric soil indicators observed included depleted matrix (F3) and a depleted below dark surface layer (A11). Redox concentrations were observed starting at six inches below the soil surface.

Timakwa and Natchaug: Very deep, very poorly drained soils that form in woody and herbaceous organic materials over sandy/loamy deposits in depressions on lake plains, outwash plains, till plains, moraines, and flood plains. High saturated hydraulic conductivity in organic layers, moderately low to high in loamy material and/or very high in sandy material. This soil type is mapped along sections north and south of South Street Extension and was confirmed in portions of Wetland Series B and C.

Hinckley: Very deep and excessively drained soils formed in glaciofluvial materials, with high to very high saturated hydraulic conductivity. Are nearly level through very steep soils on outwash terraces, outwash plains, outwash deltas, kames, kame terraces, and eskers. Hydric soil indicators observed included a redox dark surface (F6). Redox concentrations were observed starting at four inches from the soil surface.

Sutton: Very deep and moderately well drained loamy soils formed in melt-out till. Ranges from nearly level to strongly sloping soils found on hills, low ridges, and ground moraines, typically on footslopes, lower backslopes and in slight depressions. This soil type is mapped beneath and adjacent to eastern portions of South Street Extension. This soil type was confirmed in the mapped upland areas immediately adjacent to the Site.

Ninigret: Very deep, moderately well drained soils formed in loamy over sandy and gravelly glacial outwash with moderately high to very high saturated hydraulic conductivity. Found in nearly level to strongly sloping soils on glaciofluvial landforms, typically in slight depressions and broad drainage ways. This soil type is mapped beneath and adjacent to an

[1] Rodgers, J., 1985. Bedrock Geological Map of Connecticut. U.S. Department of the Interior. U.S. Geologic Survey, Prepared in Cooperation with the Department of Environmental Protection Geologic and Natural History Survey. 1:125,000 scale map.

[2] Stone, J. R., J. P. Schafer, E. H. London, and W. B. Thompson, 1992. Surficial Materials Map of Connecticut. U.S. Department of the Interior. U.S. Geologic Survey, Prepared in Cooperation with the Department of Environmental Protection Geologic and Natural History Survey. 1:125,000 scale map.

[4] USDA, National Cooperative Soil Survey, 2010. Soil Series Descriptions.

eastern portion of South Street Extension, and was confirmed in the mapped upland areas immediately adjacent to the Site.

1.1.2 WETLAND and WATERCOURSE DELINEATION

Wetlands were delineated as part of the soils evaluation using the following methodology:

1. Identifying State of Connecticut wetlands by reference to poorly drained soils, very poorly drained soils and alluvial soils; and
2. Identifying Federal Freshwater Wetlands and Waters of the U.S. based upon vegetation, soils, and hydrology that is consistent with current Federal methodology[3] (ACOE, 2012).
3. Identifying State of Connecticut watercourses by reference to Connecticut Inland Wetlands and Watercourses Act (sections 22a-36 to 22a-45)[4].

Unnamed Watercourse: Ordinary High Water (Flags: A-1 to A-19; A20 to A-50A2; A-51A2 to A-86; A-86A to A-86B; A-1A to A-1B)

An intermittent watercourse was observed in the overgrown, forested section of South Street Extension. The ordinary high water of the watercourse was flagged as A-1B to A-50A2 on the southern side, and flags A-51A2 to A86B on the northern side. The streambed substrate appeared to consist largely of rocks and large cobblestone material. This feature is believed to be regulated as it meets the Section 22a-38 definition of an "intermittent watercourse" whereby an intermittent watercourse is defined as a permanent channel and bank along with the occurrence of two or more of the following characteristics: (1) evidence of scour or deposits of recent detritus/alluvium; (2) standing or flowing water for a duration longer than a storm event; and (3) presence of hydrophytic vegetation (herbaceous or woody). Both flowing water for a duration longer than a storm event and evidence of scour along the channel were observed during the 2024 and 2025 Site visits.

Due to decreased GPS accuracy as a result of tree cover, this delineated watercourse is labelled as "Estimated" in **Figure 5** and **5A**. These flags were later survey-located by a CT-licensed surveyor (Benesch) and added to the existing conditions plan.

Unnamed Watercourse: Ordinary High Water (Flags D-1 to D-15)

A second intermittent watercourse was observed along the south side of the eastern, gravel portion of South Street Extension. The ordinary high water of the watercourse's northern boundary was flagged as D-1 to D-15. Flag D-15 begins at the top of the eastern portion of South Street Extension near the Eversource right-of-way, and continues down along the road through several culverts toward Wetland Series C. Here, the watercourses' banks become less defined as flow enters the wetland. Evidence of flowing water was observed during the May 2025 site visit, with scour along the channelized bank. Observed hydrophytic vegetation included jewelweed (*Impatiens capensis*).

Wetland Series C (C-1 to C-10)

A scrub/shrub wetland (flags C-1 through C-10) was observed along the south side of the eastern, gravel portion of South Street Extension, roughly 430 feet from the intersection with Plains Road. The State and federal limits of the wetland were

[3] ACOE (Army Corps of Engineers), 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region. Version 2.0. January 2012. ERDC/EL TR-12-1

[4] State of Connecticut, 1972. Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45).

judged to be coterminous based on observations of hydric soil, wetland hydrology, and dominance of hydrophytic vegetation. Hydric soil indicators included a redox dark surface layer (F6)**Error! Bookmark not defined.** (see **Appendix D**). The predominant wetland vegetation observed included specked alder (*Alnus incana*), common reed (*Phragmites autralis*), and skunk cabbage (*Symplocarpus radicans*). This wetland overlaps with the mapped boundaries of the FEMA Zone A floodplain, as shown in **Figure 6**. The boundary of this wetland is believed to continue south of the Site, following the toe of slope (see **Figure AB**).

Wetland Series B (Flags: B-1 to B-18)

A herbaceous wetland (flags B-1 through B-18) was observed along the north side of the eastern, gravel portion of South Street Extension and opposite Wetland Series C. The State and federal limits of the wetland were judged to be coterminous based on observations of hydric soil, wetland hydrology, and a dominance of hydrophytic vegetation. Hydric soil indicators included a depleted matrix (F3) and a depleted below dark surface layer (A11)**Error! Bookmark not defined.** (see **Appendix D**). The predominant wetland vegetation observed included northern spicebush (*Lindera benzoin*), sensitive fern (*Onoclea sensibilis*), and skunk cabbage. This wetland overlaps with the mapped boundaries of the FEMA Zone A floodplain.

2.0 PROJECT NARRATIVE

The permit application includes a set of drawings (**Appendix B)** which illustrate the existing conditions and proposed improvements to be made onsite. The proposed work involves installing approximately 5,000 linear feet of six (6) inch diameter water main pipe from the proposed interconnection point with the existing water system in Upton Drive, extending east along South Street Extension and then south along Plains Road. The pipe is proposed to be installed approximately 4 feet below grade within a five-foot-wide utility trench. Trenchless construction methods (e.g., directional drilling) are proposed for installing the new water line beneath the intermittent stream contained within the 24" RCP in South Street Extension.

The project includes construction of a new 10-foot-wide gravel access road within the forested section of South Street Extension, installed over the new water main and within a proposed 30-foot-wide utility easement. The installation of this new gravel access road will involve tree and shrub clearing. It will also involve crossing the nearby intermittent stream with a twenty-foot long, 78-inch diameter corrugated metal pipe (CMP). The bottom half of the pipe will be installed 39 inches into the ground, and will be infilled with streambed material to restore the stream bottom and to maintain the existing channel slope. Headwalls will also be installed along the upstream and downstream ends of this culvert.

Construction vehicles for the proposed work may include excavators with hydraulic breakers, skid-steer loaders, and pipelayers/sidebooms. Stabilized construction entrances may be installed at access points along the roads. Access to residential driveways along the roads will be maintained to the extent practicable, and should be available to homeowners at the end of each work day. Fueling and maintaining of equipment will be done outside of the URAs. The Site on which the regulated activity is proposed is not located within 500 feet of the boundary of an adjoining municipality, and therefore no drainage or runoff from the Site will impact streets or private property within adjoining municipalities. Streets within adjoining municipalities will not be used to enter or exit the Site.

2.1 PROPOSED WORK SUBJECT TO INLAND WETLANDS AGENCY JURISDICTION

The installation of the water main and the 10-foot-wide gravel access road in the forested section of South Street Extension will result in about 24,815 square feet (0.57 acres) of permanent impact to the URA of the unnamed watercourse (Series A flags). The installation of the 78-inch diameter CMP will result in approximately 200 square feet (0.005 acres) of

permanent impact to the unnamed watercourse. The culvert will have a width that spans 1.2 times the bankfull width of the watercourse, per the Stream Crossing Guidelines. The culvert will also have an Openness Ratio of > 0.82, as recommended in the Stream Crossing Guidelines. The bottom half of the pipe will be infilled with streambed material to maintain existing streambed geometry and slope. The installation of the water main within the eastern, gravel portion of the South Street Extension and Plains Road will result in an estimated 10,550 square feet (0.24 acres) of temporary impact to the URAs onsite. The URAs are already impacted by the existing gravel/paved roads. No widening of the road is proposed, and therefore no impacts to the Series B, C, or D regulated resources are anticipated.

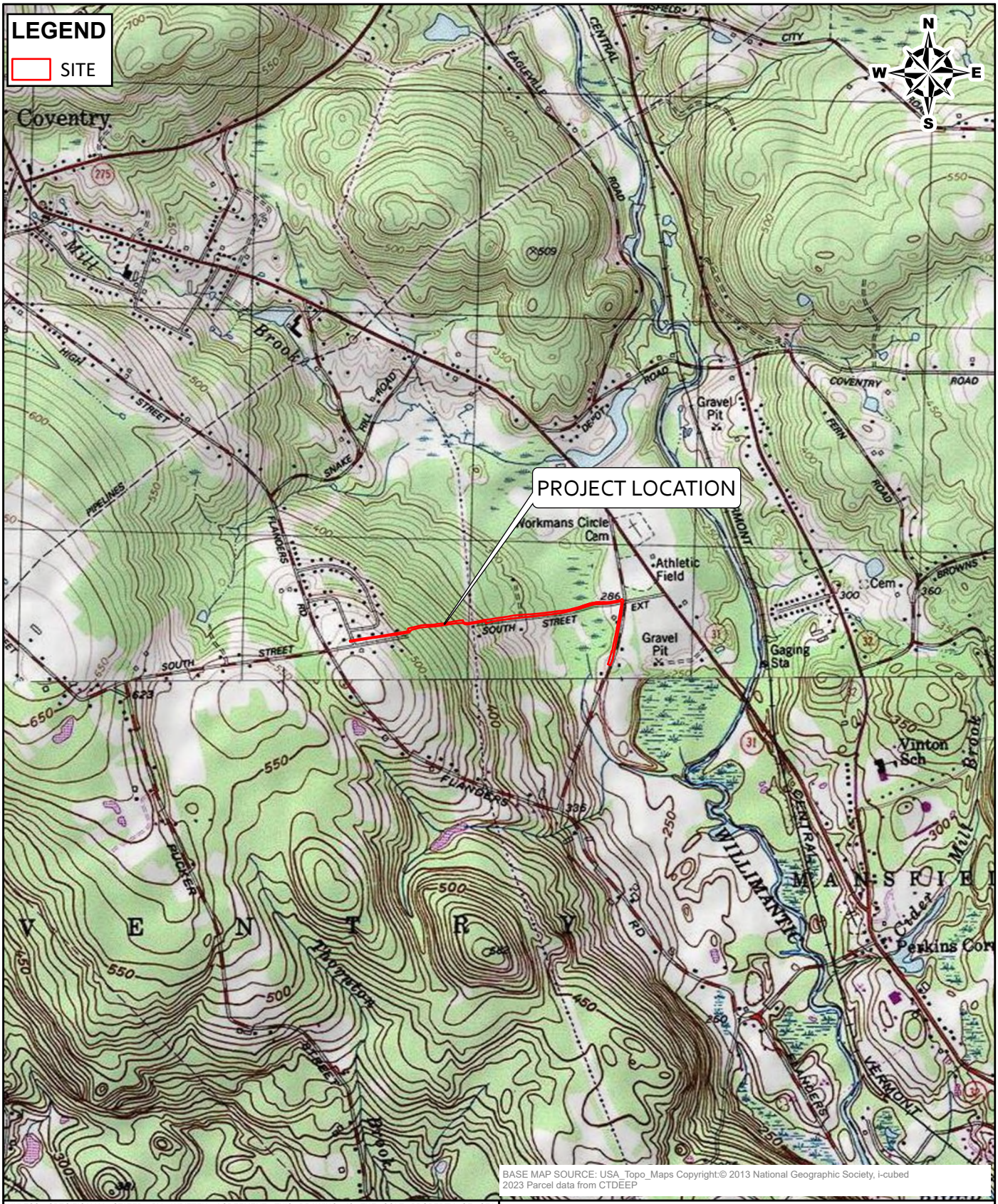
3.0 SEDIMENTATION AND EROSION CONTROLS

Prior to the initiation of the proposed work, appropriate erosion and sediment controls including silt fencing and straw wattles will be installed along the limits of the proposed work areas, as shown in the attached plan set (**Appendix B**). Sedimentation protection is also planned for the roads' storm drain inlets (e.g., catch basins).

4.0 MAINTENANCE SCHEDULE

The Contractor will perform routine inspections of the sedimentation and erosion controls during active construction.

Figures



BASE MAP SOURCE: USA_Topo_Maps Copyright:© 2013 National Geographic Society, i-cubed
2023 Parcel data from CTDEEP

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0 1,000 2,000 4,000
SCALE IN FEET

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

LOCUS MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CT 06238

PROJ MGR:	STD	REVIEWED BY:	SLL	CHECKED BY:	RJC
DESIGNED BY:	CCO	DRAWN BY:	CCO	SCALE:	1 in 2,000 ft
DATE:	05/21/2025	PROJECT NO:	05.0047144.01	REVISION NO:	

FIGURE 1

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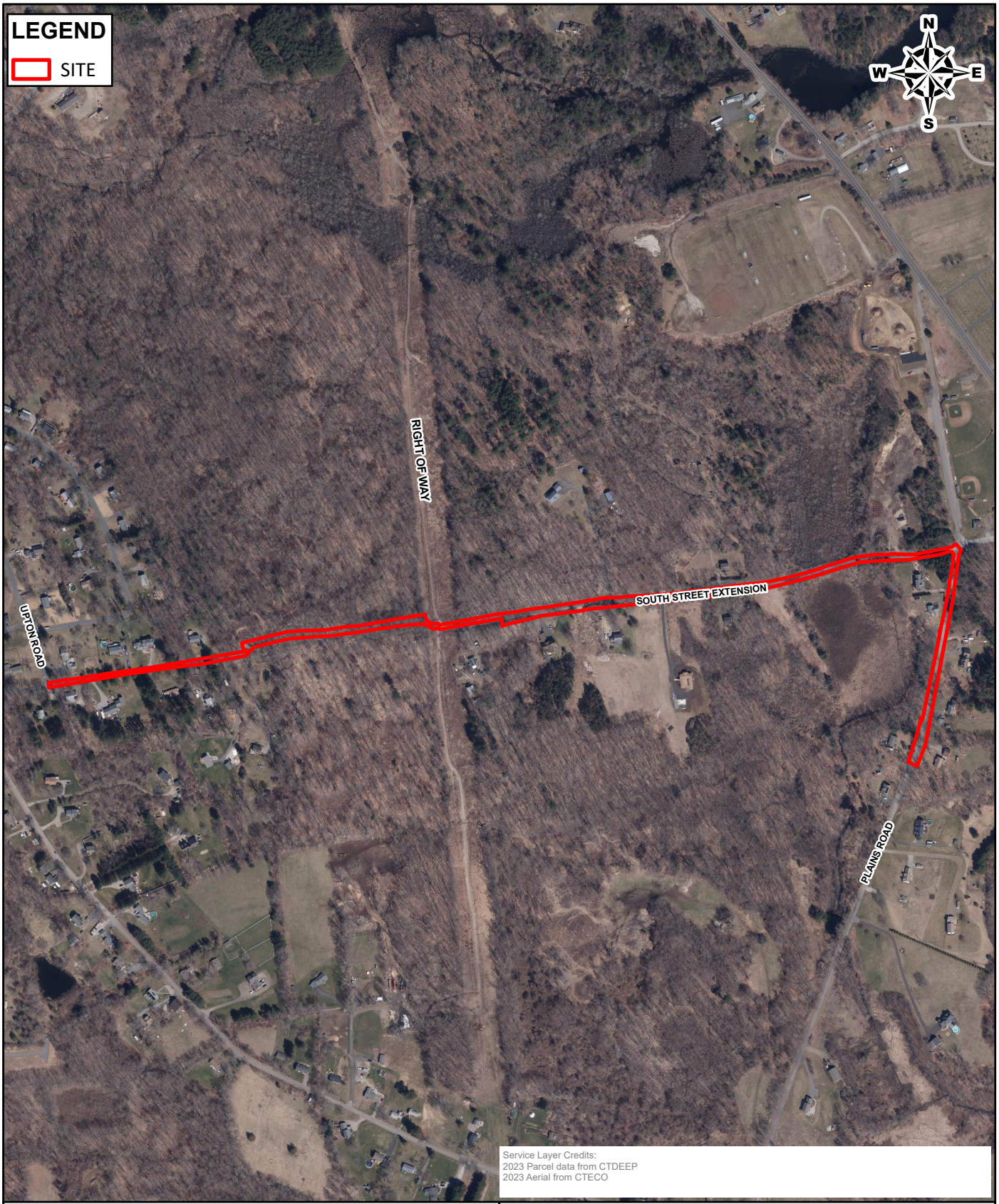

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SCALE IN FEET

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

AERIAL MAP

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Engineers and Scientists
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PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CT 06238

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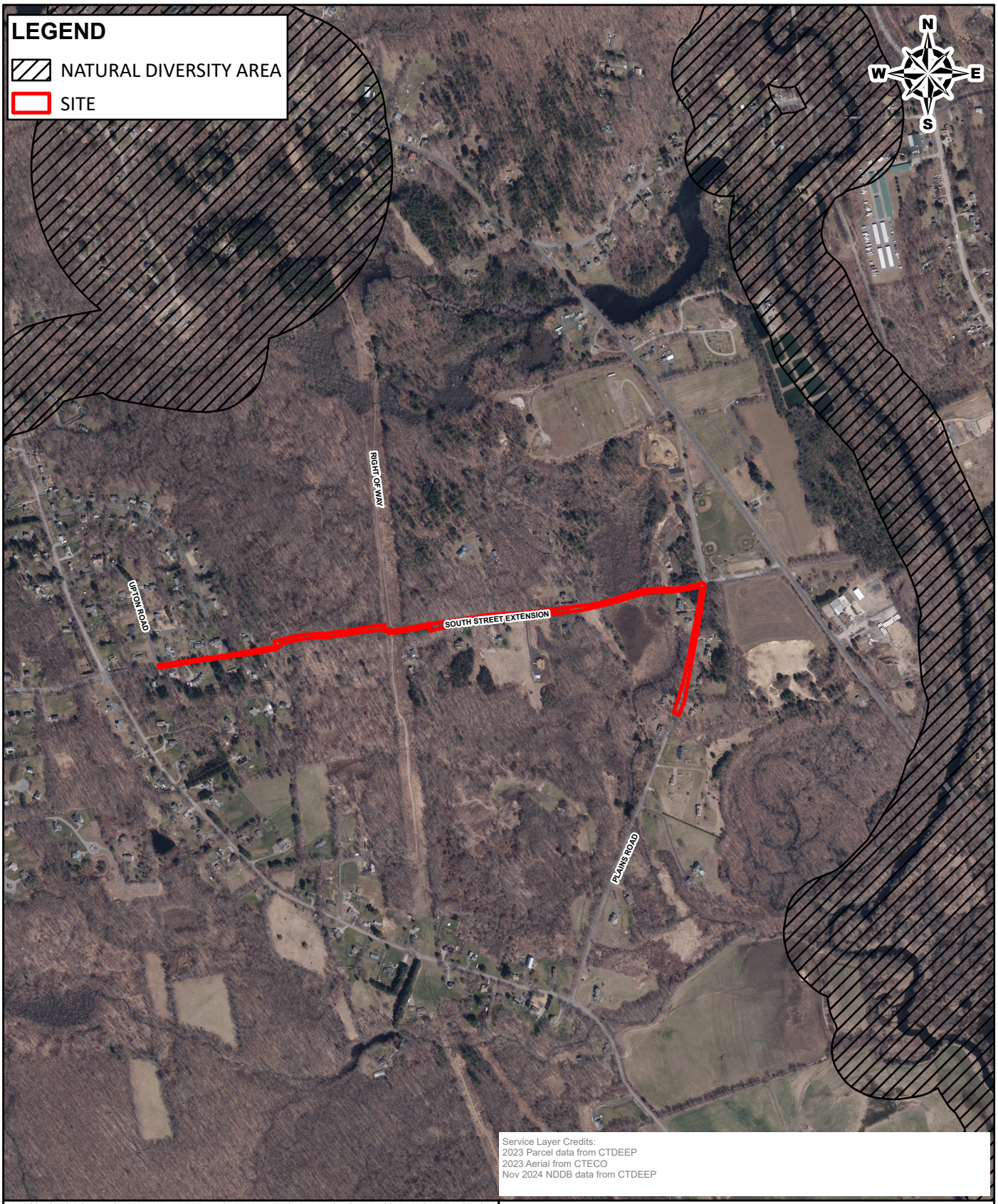
DESIGNED BY:	CCO	DRAWN BY:	CCO	SCALE:	1 in 600 ft
DATE:	05/21/2025	PROJECT NO:	05.0047144.01	REVISION NO:	

FIGURE
2



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SCALE IN FEET

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

NATURAL DIVERSITY MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CT 06238

PROJ MGR:	STD	REVIEWED BY:	SLL	CHECKED BY:	RJC
DESIGNED BY:	CCO	DRAWN BY:	CCO	SCALE:	1 in 1,000 ft
DATE:	05/21/2025	PROJECT NO:	05.0047144.01	REVISION NO:	

FIGURE
3

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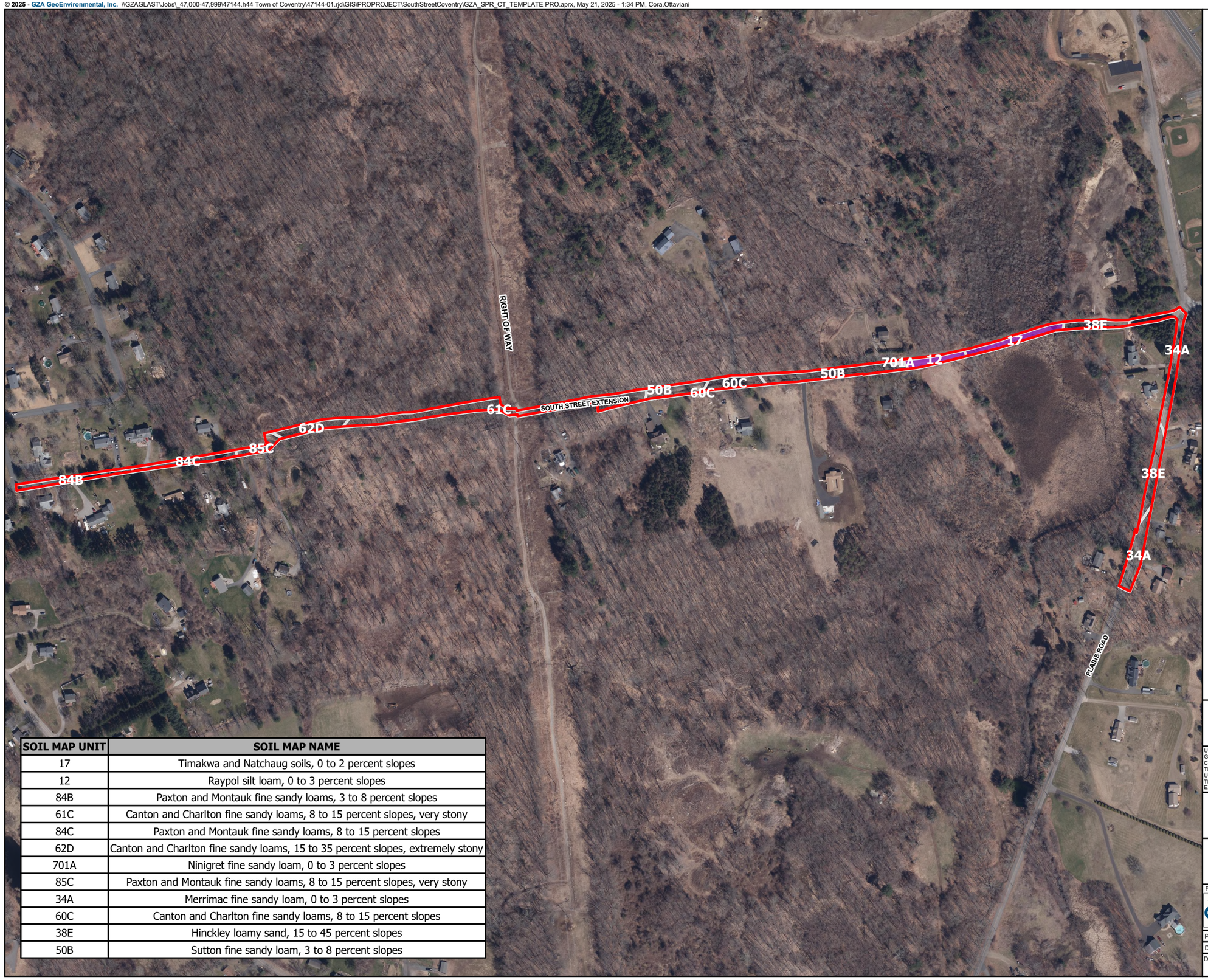

SOIL MAP UNIT	SOIL MAP NAME
17	Timakwa and Natchaug soils, 0 to 2 percent slopes
12	Raypol silt loam, 0 to 3 percent slopes
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony
701A	Ninigret fine sandy loam, 0 to 3 percent slopes
85C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes, very stony
34A	Merrimac fine sandy loam, 0 to 3 percent slopes
60C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes
38E	Hinckley loamy sand, 15 to 45 percent slopes
50B	Sutton fine sandy loam, 3 to 8 percent slopes

LEGEND

- HYDRIC SOILS
- NRCS SOILS
- SITE

N

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023
2. 2023 Parcel data from CTDEEP
3. 2023 Aerial from CTECO
4. Soils data from NRCS Web Soil Survey
5. 2023 Hydric soil data from CTDEEP

0 157.5 315 630

SCALE IN FEET

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PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

NRCS SOILS MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CT 06238

PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 315 ft	**4**
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

© 2025 - GZA GeoEnvironmental, Inc. \\GZAGLAST\Jobs_47,000-47,999\47144.h44 Town of Coventry\47144-01.rjd\GIS\PROPROJECT\SouthStreetCoventry\GZA_SPR_CT_TEMPLATE PRO.aprx, May 21, 2025 - 1:51 PM, Cora.Ottaviani

LEGEND

- 75-FOOT UPLAND REVIEW AREA
- DELINEATED WETLAND BOUNDARY
- DELINEATED ORDINARY HIGH WATER
- ESTIMATED WETLAND BOUNDARY
- ESTIMATED WATERCOURSE (DELINEATED BUT WITH DECREASED GPS ACCURACY)

N

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023 2023 Aerial from CTECO

2. Wetland resources delineated Sept 2024 and May 2025 using the methodology from CT Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45) and USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012, Version 2.0)

3. The unnamed watercourse in the unpaved portion of South Street Extension was delineated in Sept 2024, but is labeled as "Estimated" in this figure due to decreased GPS accuracy from tree cover. The watercourse flags were surveyed by Benesch for the site plans.

0 157.5 315 630

SCALE IN FEET

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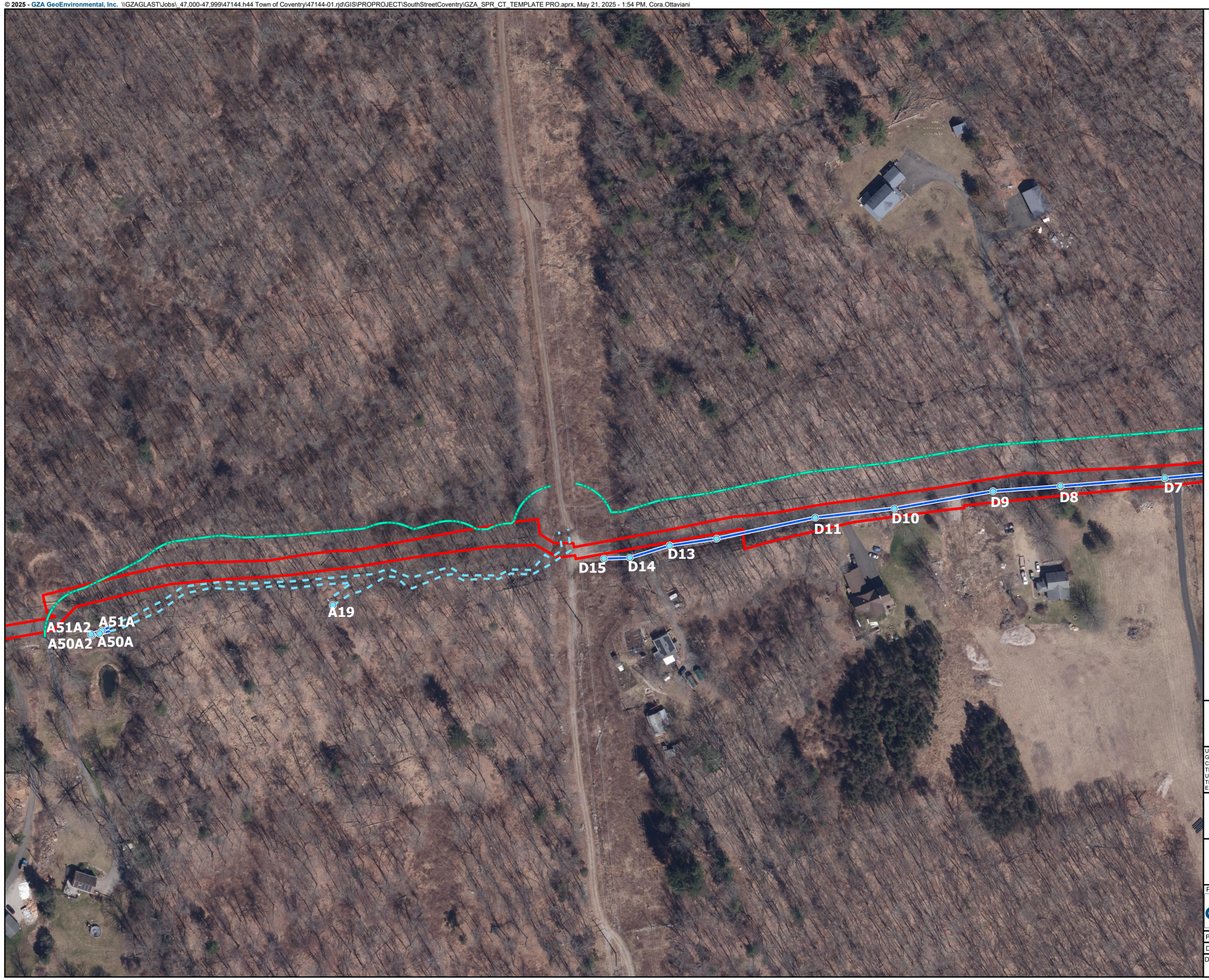
PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

REGULATED RESOURCES MAP

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CT 06238	
PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE 5
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 315 ft	
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

© 2025 - GZA GeoEnvironmental, Inc. \\GZAGLAST\Jobs\ 47,000-47,999\47144.h44 Town of Coventry\47144-01.rjd\GIS\PROPROJECT\SouthStreetCoventry\GZA_SPR_CT_TEMPLATE PRO.aprx, May 21, 2025 - 1:54 PM, Cora.Ottaviani



LEGEND

- ORDINARY HIGH WATER FLAGS
- 75-FOOT UPLAND REVIEW AREA
- DELINEATED ORDINARY HIGH WATER
- ESTIMATED WATERCOURSE (DELINEATED BUT WITH DECREASED GPS ACCURACY)

N

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023 2023 Aerial from CTECO

2. Wetland resources delineated Sept 2024 and May 2025 using the methodology from CT Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45) and USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012, Version 2.0)

3. The unnamed watercourse in the unpaved portion of South Street Extension was delineated in Sept 2024, but is labeled as "Estimated" in this figure due to decreased GPS accuracy from tree cover. The watercourse flags were surveyed by Benesch for the site plans.

0 75 150 300
SCALE IN FEET

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PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

REGULATED RESOURCES MAP - WETLANDS A & D

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CT 06238	
PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE 5A
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 150 ft	
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

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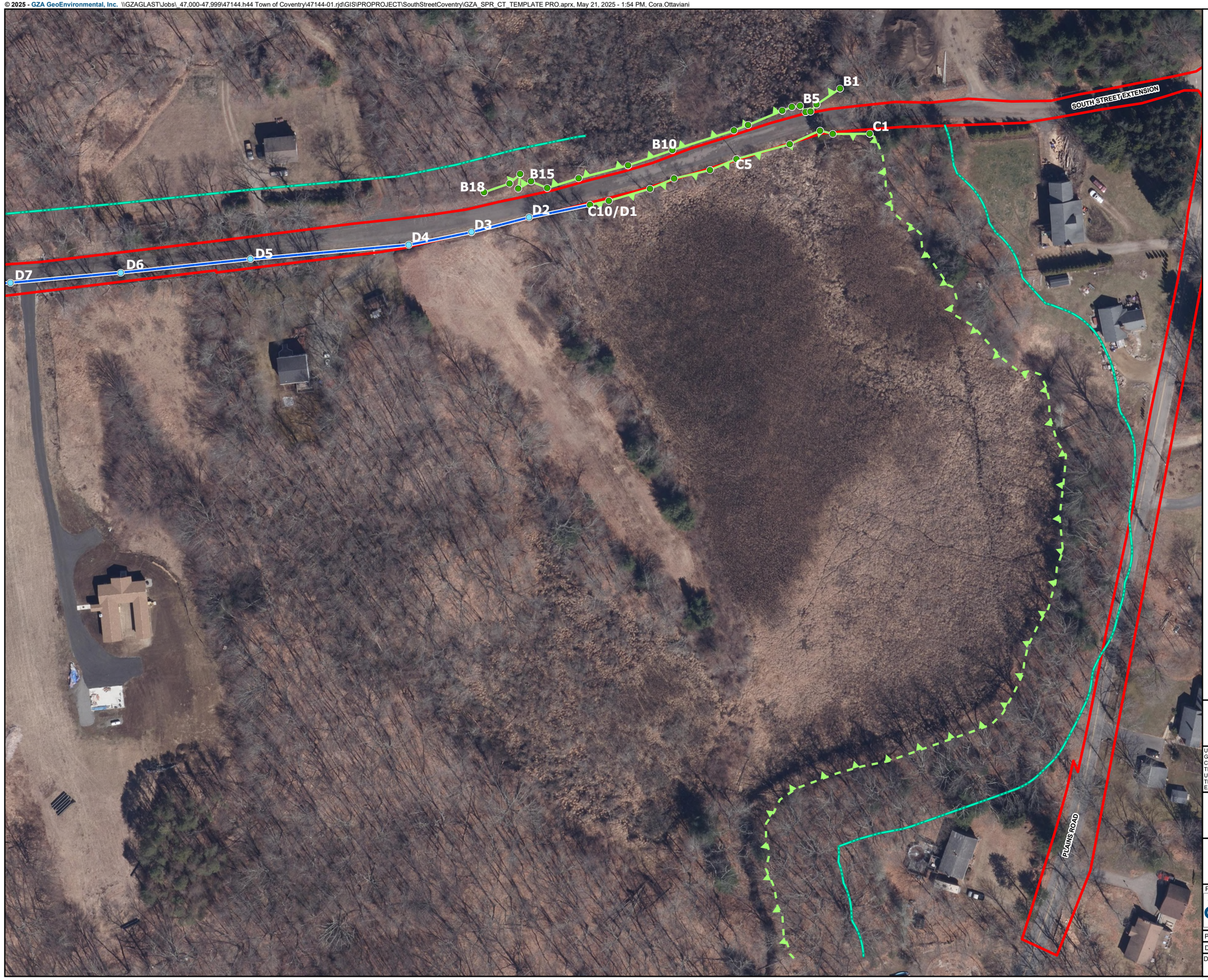


N

LEGEND

- WETLAND FLAGS
- ORDINARY HIGH WATER FLAGS
- 75-FOOT UPLAND REVIEW AREA
- DELINEATED WETLAND BOUNDARY
- DELINEATED ORDINARY HIGH WATER
- ESTIMATED WETLAND BOUNDARY
- SITE

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023 2023 Aerial from CTECO

2. Wetland resources delineated Sept 2024 and May 2025 using the methodology from CT Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45) and USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012, Version 2.0)

3. The unnamed watercourse in the unpaved portion of South Street Extension was delineated in Sept 2024, but is labeled as "Estimated" in this figure due to decreased GPS accuracy from tree cover. The watercourse flags were surveyed by Benesch for the site plans.

0 75 150 300

SCALE IN FEET

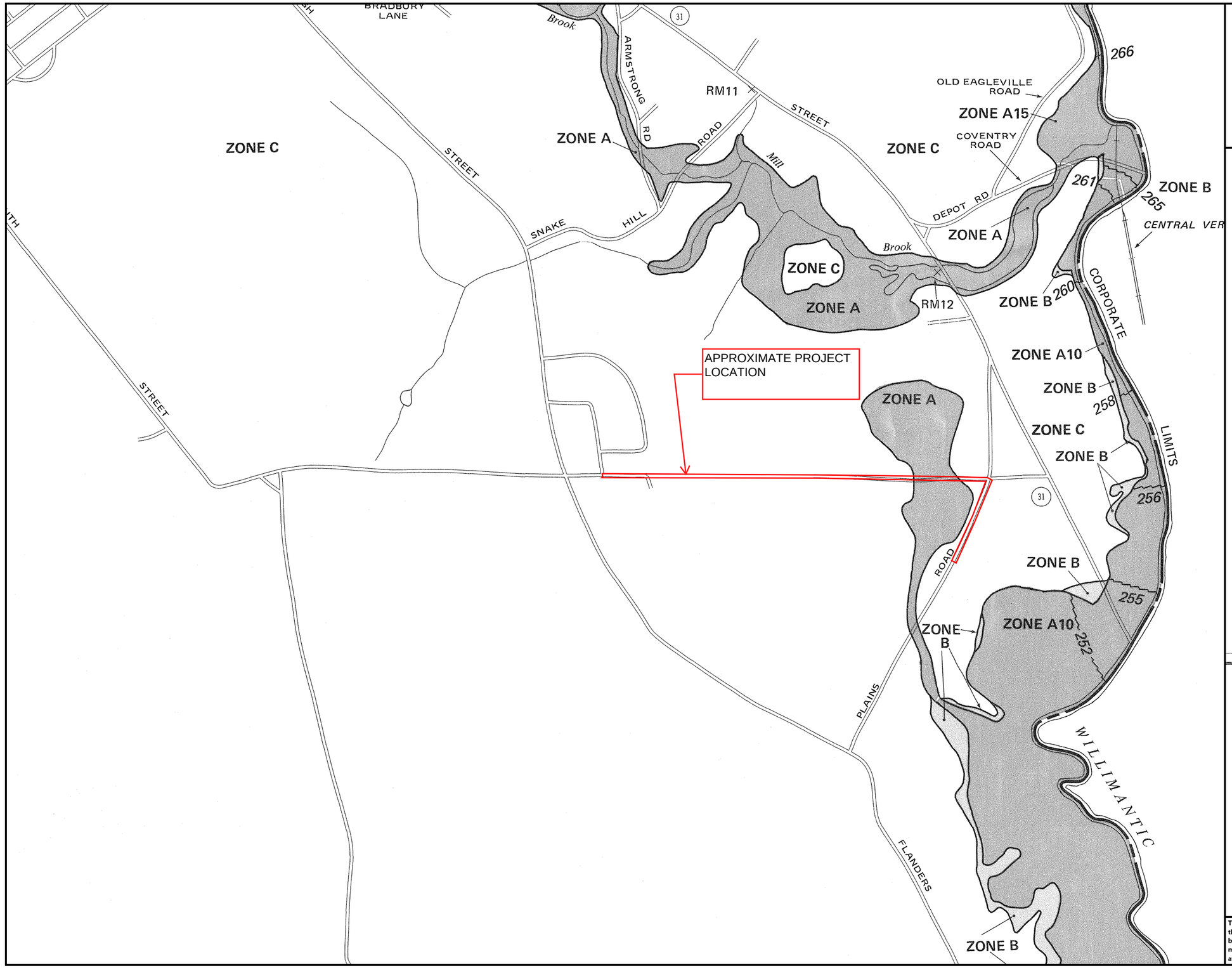
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

REGULATED RESOURCES MAP - WETLANDS B & C & D

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CT 06238	
PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE 5B
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 100 ft	
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

FIGURE 6 - FEMA FIRM PANEL



APPROXIMATE SCALE
1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
COVENTRY, CONNECTICUT
TOLLAND COUNTY

PANEL 15 OF 15

COMMUNITY-PANEL NUMBER
090110 0015 C

EFFECTIVE DATE:
JUNE 4, 1980

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at https://msc.fema.gov.

APPENDIX A

CTDEEP STATEWIDE INLAND WETLANDS & WATERCOURCES

ACTIVITY REPORTING FORM

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

STATEWIDE INLAND WETLANDS & WATERCOURSES ACTIVITY REPORTING FORM

Pursuant to section 22a-39(m) of the General Statutes of Connecticut and section 22a-39-14 of the Regulations of Connecticut State Agencies, inland wetlands agencies must complete the Statewide Inland Wetlands & Watercourses Activity Reporting Form for **each** action taken by such agency.

This form may be made part of a municipality's inland wetlands application package. If the municipality chooses to do this, it is recommended that a copy of the Town and Quadrangle Index of Connecticut and a copy of the municipality's subregional drainage basin map be included in the package.

Please remember, the inland wetlands agency is responsible for ensuring that the information provided is **accurate** and that it reflects the **final** action of the agency. Incomplete or incomprehensible forms will be mailed back to the agency. Instructions for completing the form are located on the following pages.

The inland wetlands agency shall mail completed forms for actions taken during a calendar month no later than the 15th day of the following month to the Department of Energy and Environmental Protection (DEEP). Do **not** mail this cover page or the instruction pages. Please mail **only** the **completed** reporting form to:

DEEP Land & Water Resources Division
Inland Wetlands Management Program
79 Elm Street, 3rd Floor
Hartford, CT 06106

Questions may be directed to the DEEP's Inland Wetlands Management Program at (860) 424-3019.

This page is intentionally left blank.

INSTRUCTIONS FOR COMPLETING

THE STATEWIDE INLAND WETLANDS & WATERCOURSES ACTIVITY REPORTING FORM

Use a separate form to report EACH action taken by the Agency. Complete the form as described below.
Do NOT submit a reporting form for withdrawn actions.

PART I: Must Be Completed By The Inland Wetlands Agency

1. Choose the year and month the Inland Wetlands Agency took the action being reported. If multiple actions were taken regarding the same project or activity then multiple forms need to be completed.

2. Choose ONE code letter to describe the final action or decision taken by the Inland Wetlands Agency. Do NOT submit a reporting form for withdrawn actions. Do NOT enter multiple code letters (for example, if the same project or activity had both a permit issued and enforcement action, submit two forms for the two separate actions).

   A = A Permit Granted by the Inland Wetlands Agency (not including map amendments, see code D below)
   B = Any Permit Denied by the Inland Wetlands Agency
   C = A Permit Renewed or Amended by the Inland Wetlands Agency
   D = A Map Amendment to the Official Town Wetlands Map - or -
   An Approved/Permitted Wetland or Watercourse Boundary Amendment to a Project Site Map
   E = An Enforcement Action: Permit Revocation, Citation, Notice of Violation, Order, Court Injunction, or Court Fines
   F = A Jurisdictional Ruling by the Inland Wetlands Agency (activities "permitted as of right" or activities considered non-regulated)
   G = An Agent Approval pursuant to CGS 22a-42a(c)(2)
   H = An Appeal of Agent Approval Pursuant to 22a-42a(c)(2)

3. Check "yes" if a public hearing was held in regards to the action taken; otherwise check "no".

4. Enter the name of the Inland Wetlands Agency official verifying that the information provided on this form is accurate and that it reflects the FINAL action of the agency.

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant - If Part II is completed by the applicant, the applicant MUST return the form to the Inland Wetlands Agency. The Inland Wetlands Agency MUST ensure that the information provided is accurate and that it reflects the FINAL action of the Agency.

5. Enter the name of the municipality for which the Inland Wetlands Agency has jurisdiction and in which the action/project/activity is occurring.
   Check "yes" if the action/project/activity crosses municipal boundaries and enter the name(s) of the other municipality(ies) where indicated. Check "no" if it does not cross municipal boundaries.

6. Enter the USGS Quad Map name or number (1 through 115) as found on the Connecticut Town and Quadrangle Index Map (the directory to all USGS Quad Maps) that contains the location of the action/project/activity. USGS Quad Map information is available at: https://portal.ct.gov/-/media/deep/gis/resources/IndexNamedQuadTownpdf.pdf
   ALSO enter the four-digit identification number of the corresponding Subregional Drainage Basin in which the action/project/activity is located. If located in more than one subregional drainage basin, enter the number of the basin in which the majority of the action/project/activity is located. Town subregional drainage basin maps can be found at UConn CLEAR's website: https://media.clear.uconn.edu/data/watershed_maps/index.htm (no roads depicted) or at CTECO: http://www.cteco.uconn.edu/map_catalog.asp (depicts roads, choose town and a natural drainage basin map).

7. Enter the name of the individual applying for, petitioning, or receiving the action.

8. Enter the name and address or location of the action/project/activity. Check if the action/project/activity is TEMPORARY or PERMANENT in nature. Also provide a brief DESCRIPTION of the action/project/activity. It is always best to provide as much information as possible (for example, don't state "forestry," provide details such as "20 acre forest harvest, permit required for stream crossing.")

9. Carefully review the list below and enter ONLY ONE code letter which best characterizes the action/project/activity. All state agency projects must code "N".

A = Residential Improvement by Homeowner
B = New Residential Development for Single Family Units
C = New Residential Development for Multi-Family / Condos
D = Commercial / Industrial Uses
E = Municipal Project
F = Utility Company Project
G = Agriculture, Forestry or Conservation
H = Wetland Restoration, Enhancement, Creation
I = Storm Water / Flood Control
J = Erosion / Sedimentation Control
K = Recreation / Boating / Navigation
L = Routine Maintenance
M = Map Amendment
N = State Agency Project
P = Other (this code includes the approval of concept, subdivision or similar plans with no on-the-ground work)

10. Enter between one and four code numbers to best characterize the action/project/activity being reported. Enter "NA" if this form is being completed for the action of map amendment. You MUST provide code 12 if the activity is located in an established upland review area. You MUST provide code 14 if the activity is located beyond the established upland review area or no established upland review area exists.

1 = Filling
2 = Excavation
3 = Land Clearing / Grubbing (no other activity)
4 = Stream Channelization
5 = Stream Stabilization (includes lakeshore stabilization)
6 = Stream Clearance (removal of debris only)
7 = Culverting (not for roadways)
8 = Underground Utilities Only (no other activities)
9 = Roadway / Driveway Construction (including related culverts)
10 = Drainage Improvements
11 = Pond, Lake Dredging / Dam Construction
12 = Activity in an Established Upland Review Area
14 = Activity in Upland

Examples: Jurisdictional ruling allowing construction of a parking lot in an upland where the municipality does not have an established upland review area must use code 14, other possible codes are 2 and 10. Permitted construction of a free standing garage (residential improvement by homeowner) partially in an established upland review area with the remainder in the upland must use code 12 and 14, other possible codes are 1 and 2.

11. Leave blank for TEMPORARY alterations but please indicate action/project/activity is temporary under question #8 on the form. For PERMANENT alterations, enter in acres the area of wetland soils or watercourses altered. Include areas that are permanently altered, or are proposed to be, for all agency permits, denials, amendments, renewals, jurisdictional rulings, and enforcement actions. For those activities that involve filling or dredging of lakes, ponds or similar open water bodies enter the acres filled or dredged under "open water body." For those activities that involve directly altering a linear reach of a brook, river, lakeshore or similar linear watercourse, enter the total linear feet altered under "stream." Remember, these figures represent only the acreage altered, not the total acreage of wetlands or watercourses on the site. You MUST provide all information in ACRES (or linear feet as indicated) including those areas less than one acre. To convert from square feet to acres, divide square feet by the number 43,560. If this report is being completed for an agency jurisdictional ruling and detailed information is not available, provide an estimate. Enter zero if there is no alteration.

12. Enter in acres the area of upland altered as a result of an ACTIVITY REGULATED BY the inland wetlands agency, or as a result of an AGENT APPROVAL pursuant to CGS section 22a-42a(c)(2). Leave blank for TEMPORARY alterations but please indicate action/project/activity is temporary under question #8 on the form. Include areas that are permanently altered, or proposed to be permanently altered, for all agent approvals, agency permits, denials, amendments, renewals, jurisdictional rulings, and enforcement actions. You MUST provide all information in ACRES including those areas less than one acre. See directions above (#11) for conversion factor. If this report is being completed for an agent approval or an agency jurisdictional ruling and detailed information is not available, provide an estimate. Enter zero if there is no alteration.

13. Enter the acres that are, or are proposed to be, restored, enhanced or created for all agency permits, denials, amendments, renewals, jurisdictional rulings and enforcement actions. NOTE restored or enhanced applies to previously existing wetlands or watercourses. Created applies to a non-wetland or non-watercourse area which is converted into wetlands or watercourses. For created - question #10 must provide 12 and/or 14 as an answer, and question #12 must also be answered. You MUST provide all information in ACRES including those areas less than one acre. See directions above (#11) for conversion factor. Enter zero if there is no restoration, enhancement or creation.

PART III: To Be Completed By The DEEP - Please leave this area blank. Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106
Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
   (print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

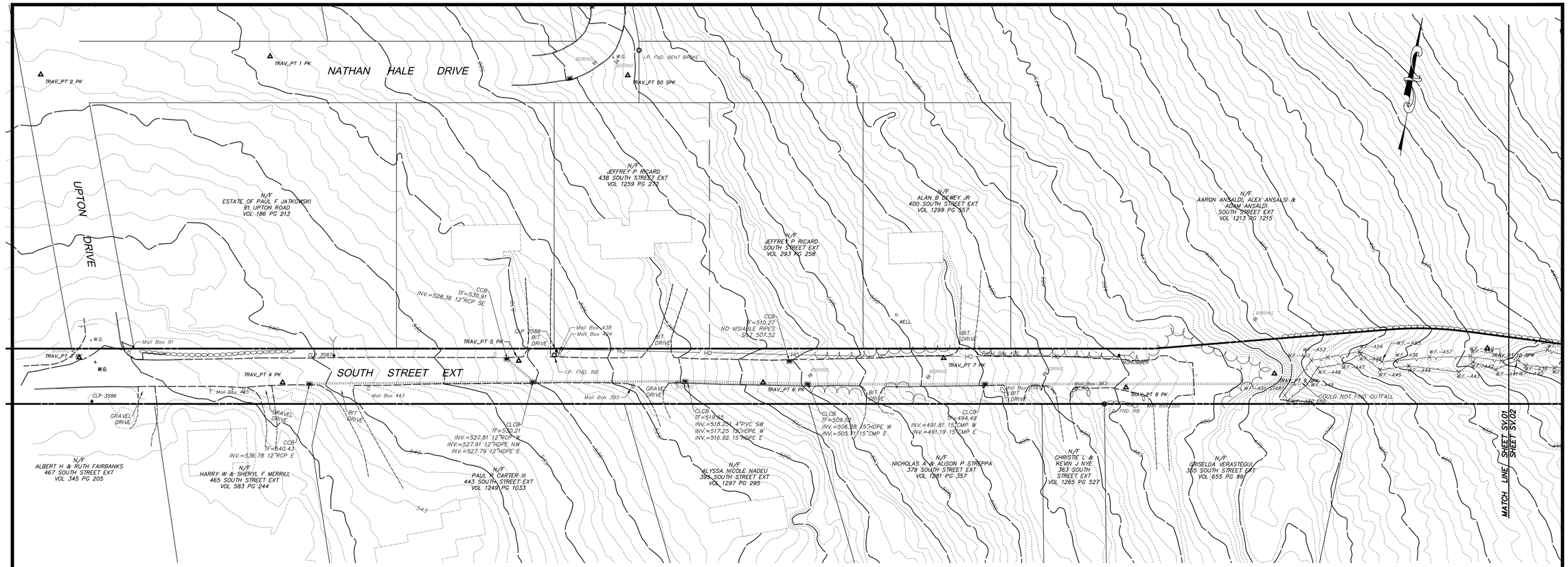
5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Coventry
   does this project cross municipal boundaries (check one)? yes ☐ no ☒
   if yes, list the other town(s) in which the activity is occurring (print name(s)): _____, _____
6. LOCATION (see instructions for information): USGS quad name: COVENTRY or number: 40
   subregional drainage basin number: 3105
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Town of Coventry
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): South Street Extension and Plains Road right of ways
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description:
   Install a six (6) inch water main extending from the existing system on Upton Drive, east along South Street Extension and south down to 225 Plains Road.
9. ACTIVITY *PURPOSE* CODE (see instructions - one code only): F
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): 9, 12, _____, _____
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
    wetlands: 0 acres open water body: 0 acres stream: 0.005 acres linear feet
12. UPLAND AREA ALTERED (must provide acres): 0.57 permanent/0.24 temporary acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

PART III: To Be Completed By The DEEP

DATE RECEIVED: DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO

APPENDIX B
PROPOSED SITE PLAN



LEGEND

UTILITY SERVICES (UNDERGROUND OR OVERHEAD)

E	ELECTRIC SERVICE
G	GAS PIPES
SAN	SANITARY SEWER PIPES
	STORM WATER PIPES (LESS THAN 12")
	STORM WATER PIPES (12" OR LARGER)
STM	STEAM PIPES (SUPPLY & COND.)
T	TELEPHONE SERVICE
W	WATER PIPES
COM	COMMUNICATION/FIBER OPTIC SERVICE
FP	FIRE PROTECTION PIPES
UG	UNKNOWN UTILITY SERVICE
OH	OVERHEAD WIRES

PROPERTY/BOUNDARY LINES

- PROPERTY/BOUNDARY LINES (CLASS A-2)
- PROPERTY/BOUNDARY LINES (CLASS D)
- EASEMENT LINES

FEATURE LINES

- CURBED ROADWAY
- EDGE OF PAVED ROAD/DRIVE
- BUILDING ROOFLINE (AERIAL PHOTOS)
- RETAINING WALL
- STOCKADE FENCE
- CHAIN LINK/WIRE FENCE
- TREE/VEGATATION LINE
- STONE WALL
- SURFACE WATER (WATERCOURSE)
- WETLANDS LIMIT
- EDGE OF LANDSCAPING
- INTERMEDIATE CONTOUR
- INDEX CONTOUR

SYMBOL LEGEND

- CATCH BASIN
- ROUND DRAIN
- SQUARE DRAIN
- STORM DRAIN MANHOLE
- ELECTRIC MANHOLE
- SANITARY MANHOLE
- STEAM MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MANHOLE (OF UNKNOWN TYPE)
- HAND HOLE (SQ. / REC.)
- W.G. WATER VALVE
- G.G. GAS VALVE
- HYDRANT
- COMBO STANDPIPE
- GUY WIRE
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)
- BORING (AS DRILLED)
- BORING (AS STAKED)
- 427.3 SPOT ELEVATION
- WETLANDS FLAG
- PROPERTY MONUMENT
- UTILITY MONUMENT (SET AS 2' OFFSET)
- IRON PIPE OR REBAR FOUND
- IRRIGATION CONTROL BOX
- EMERGENCY PHONE
- TRAFFIC CONTROLLER CABINET
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- STREET LIGHT
- LIGHT POST
- BOLLARD LIGHT
- BOULDER / ROCK
- CONIFER SHRUB
- DECIDUOUS SHRUB
- DECIDUOUS TREE (SAPLING)
- DECIDUOUS TREE
- CONIFER TREE

ABBREVIATIONS

A/C	AIR CONDITIONER
AT&T	AMERICAN TELEPHONE & TELEGRAPH COMPANY
BIT.	BITUMINOUS
BLK.	BLACK
CB	CATCH BASIN
COM	COMMUNICATION
CON.	CONIFER
CONC.	CONCRETE
CNG	CONNECTICUT NATURAL GAS
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CL&P	CONNECTICUT LIGHT & POWER COMPANY
CP	CONTROL POINT
DEC.	DECIDUOUS
DMH	DRAINAGE MANHOLE
E	EAST OR ELECTRIC
EL.	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
F.L.	FLOW LINE
FND.	FOUND
GRAN.	GRANITE
GSTC	GRANITE STONE CURB
HELCO	HARTFORD ELECTRIC COMPANY
HYD.	HYDRANT
H.H.	HAND HOLE
L.P.	LIGHT POLE
MH	MANHOLE
M	METER
M.W.	MONITOR WELL
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NE	NORTHEAST
N/F	NOW OR FORMERLY
NW	NORTHWEST
PVC	POLYVINYL CHLORIDE
P.I.V.	POST INDICATOR VALVE
RET.	RETAINING
RCP	REINFORCED CONCRETE PIPE
R.L.	RAIN LEADER
S	SOUTH OR SUPPLY
SE	SOUTHEAST
SW	SOUTHWEST
SAN.	SANITARY
SMH	SANITARY MANHOLE
SNET	SOUTHERN NEW ENGLAND TELEPHONE
SQ.	SQUARE
STM	STEAM
TMH	TELEPHONE MANHOLE
TEL.	TELEPHONE
T.F.	TOP OF FRAME
UNK.	UNKNOWN
W	WATER OR WEST
W.G.	WATER GATE

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: STB

REVISIONS			
No.	DATE	DESCRIPTION	
1	12/1/2025	locate wetlands	

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" =40'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE
40 20 0 40

benesch

Prepared By:

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

PROJ. No.: 70977
DATE: AUG 2024

SV.01

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

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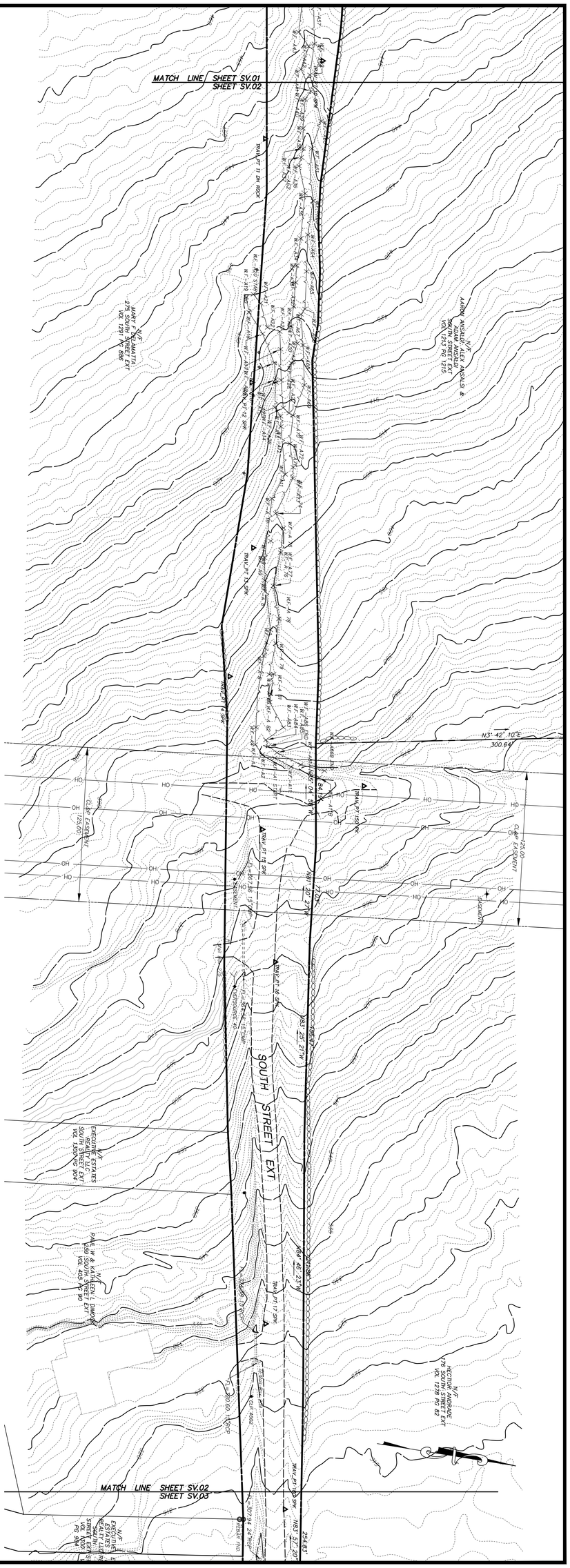
TWISTVIEW:	
VIEWNAME:	
LAYER MANAGER NAME:	
PLOT TABLE: .STB	



SV.02

PROJ. No.: 70977
DATE: AUG 2024

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

Prepared By:

benesch

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SCALE: HORZ.: 1" =40'
VERT.:

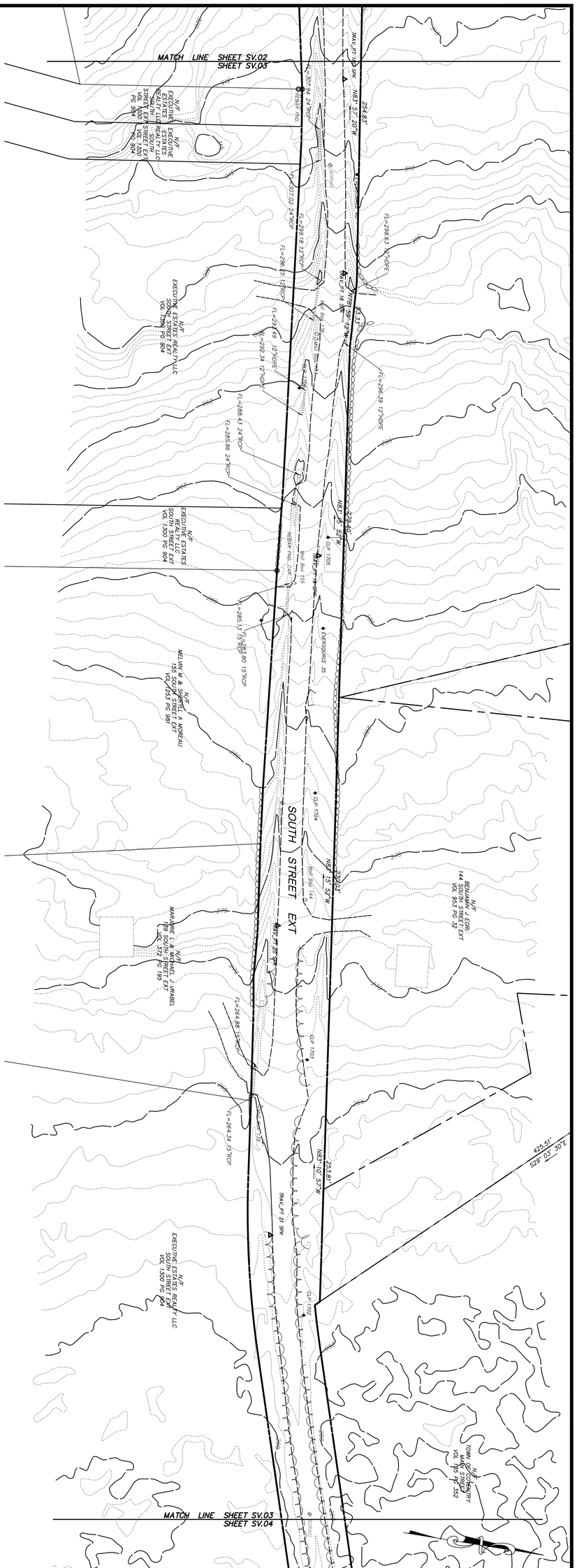
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS			
No.	DATE	DESCRIPTION	SURVEY BOOK: 06-
1	1/21/2025	locate wetlands	SURVEYOR: PC
			DRAWN: DAC
			CHECKED: RS
			APPROVED: WW

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEWNAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



SV.03

PROJ. No.: 70977
DATE: AUG 2024

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

Prepared By:

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Phone (860) 633-8341, Fax: (860) 633-1068
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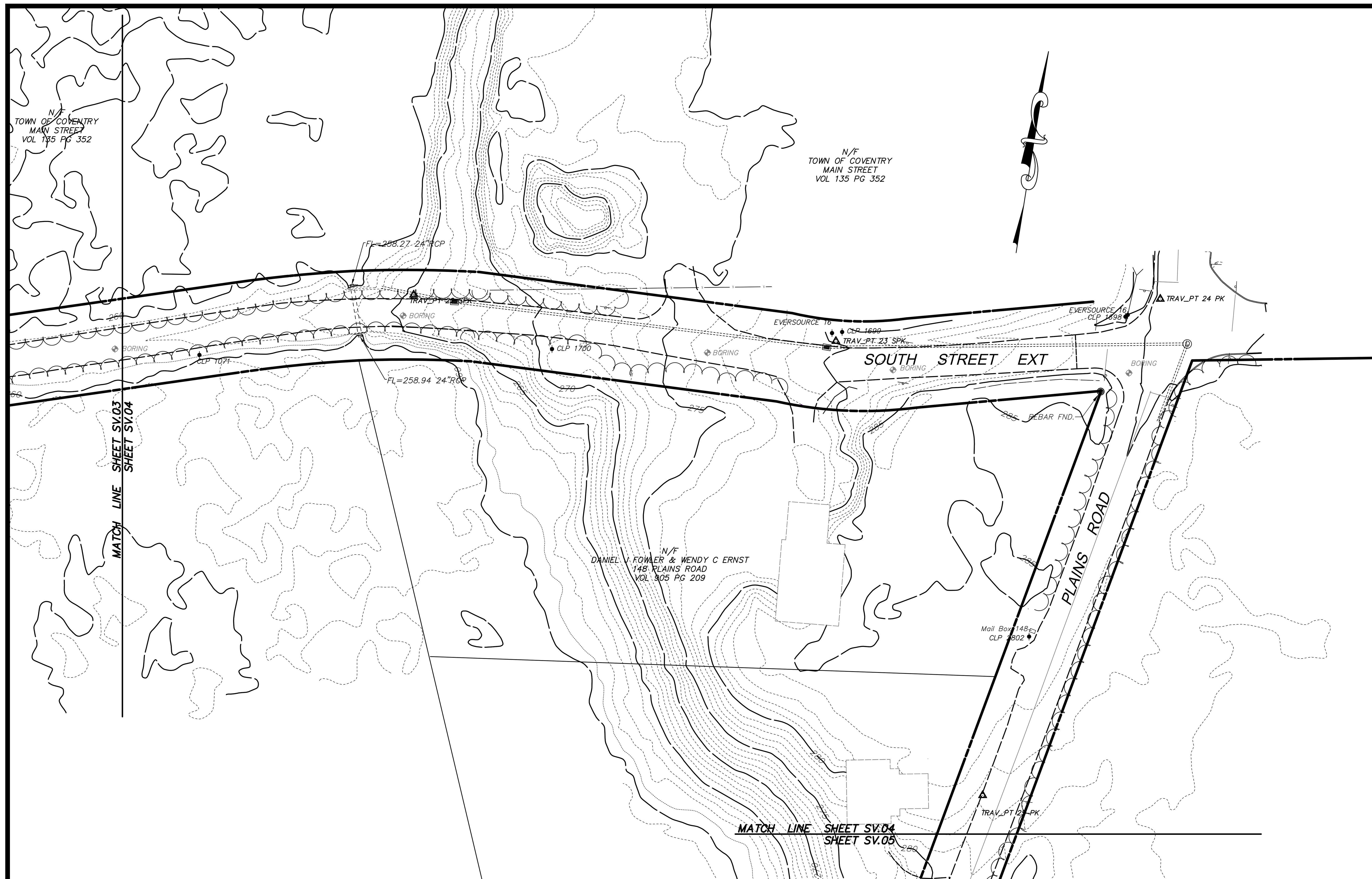
SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS			
No.	DATE	DESCRIPTION	SURVEY BOOK: 06-
			SURVEYOR: PC
			DRAWN: DAC
			CHECKED: RS
			APPROVED: WW

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM



RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION & PLAINS ROAD
COVENTRY CONNECTICUT

Prepared By:

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SCALE: HORZ.: 1"=40'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE 40 20 0 40

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

PROJ. No.: 70977
DATE: AUG 2024

SV.04

File Location/Name - Y:\Glastonbury\70900s\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEWNAME:
LAYER MANAGER NAME:
PLOT TABLE: STB

N/F
MICHAEL BRETON
PLAINS ROAD
VOL 1262 PG 1177

N/F
THOMAS L CALABRO
& CHRISTINE C COOPER
232 PLAINS ROAD
VOL 1237 PG 1166

N/F
KARL W & JANICE SENTIVANY
240 PLAINS ROAD
VOL 611 PG 302

N/F
TIMOTHY J & LESLIE HEBERT
150 PLAINS ROAD
VOL 1246 PG 115

MATCH LINE SHEET SV.04

SHEET SV.06

PLAINS ROAD

Mail Box 273

Mail Box 261

CLP 3620

Mail Box 230

REBAR FND.

CLP 3619

Mail Box 225

TRAV_PT 28 PK

BORING

CLP 3618

REBAR FND.

Mail Box 203

BORING

TRAV_PT 26 PK

CLP 3617

REBAR FND.

Mail Box 143

BORING

TRAV_PT 25 PK

36" OAK

FL=276.17 18"RCP

FL=274.54 18"RCP

CLP 4574

REBAR FND.

TRAV_PT 29 PK

REBAR FND.

WELL

N/F
JAMES MAULUCCI
273 PLAINS ROAD
VOL 1262 PG 466

N/F
RICHARD C & ROBERTA F SANBORN
225 PLAINS ROAD
VOL 152 PG 535

N/F
RYAN Y WALKER
261 PLAINS ROAD
VOL 1286 PG 1039

N/F
BETSY J FITZGERALD TRUSTEE
203 PLAINS ROAD
VOL 1294 PG 58

N/F
SCOTT ANDREW ZIMA & KATHLEEN OCONNELL ZIMA
143 PLAINS ROAD
VOL 490 PG 83

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
PLAINS ROAD
COVENTRY CONNECTICUT

Prepared By:

benesch
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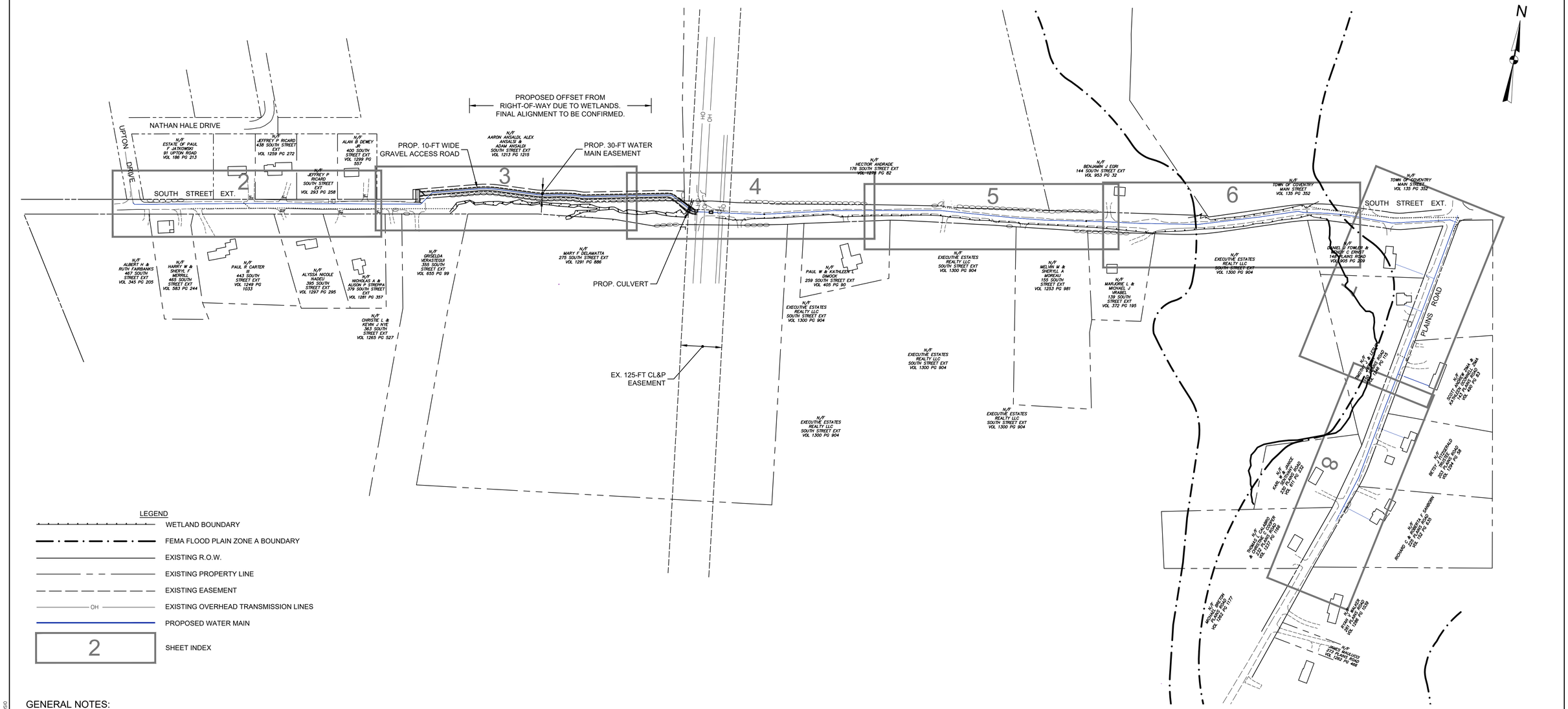
PROJ. No.: 70977
DATE: AUG 2024

SV.05

File Location\Name - Y:\Glastonbury\70900s\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:34 AM

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



LEGEND

- WETLAND BOUNDARY
- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- OH — EXISTING OVERHEAD TRANSMISSION LINES
- PROPOSED WATER MAIN
- 2 — SHEET INDEX

GENERAL NOTES:

1. LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
2. WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONCIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING GLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
4. FIELD LOK GASKETS SHALL BE PLACED A MINIMUM 3 FULL PIPE LENGTHS FROM THE END OF ALL DEAD END LINES AND BLOWOFFS. AT ALL CHANGES OF DIRECTION, FIELD LOK GASKETS SHALL BE INSTALLED A MINIMUM OF 2 FULL PIPE LENGTHS FROM A FITTING OR AT THE DISCRETION OF THE ENGINEER/INSPECTOR.
5. ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.
6. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN THE FIELD. EXISTING SERVICES TO BE TIED OVER TO NEW MAIN WHERE SHOWN.
7. WATER MAIN SHOWN AS FIELD LOCATED PER CWC PAINTMARKS. ALL OTHER UNDERGROUND UTILITIES TAKEN FROM MAPPING PROVIDED BY THE UTILITY COMPANIES SERVING THIS REGION. ANY PAINT MARK LINETYPE IN DRAWING HAS BE FIELD LOCATED BASE ON PAINTMARKS BY "CALL BEFORE YOU DIG".
8. THE APPROXIMATE PROPERTY LINES WERE DETERMINED FROM ASSESSORS NAPS AND LIMITED FIELD MEASUREMENTS. PROPERTY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE AND TO SHOW ADJACENT PROPERTY OWNERS ONLY.

SOURCE:

1. THE BASE PLAN WAS OBTAIN FROM ELECTRONIC FILES PREPARED BY BENESCH AND PREPARED FOR THE TOWN OF COVENTRY ENTITLED "RIGHT OF WAY & TOPOGRAPHY SURVEY, SOUTH STREET EXTENSION", DATED: 1/21/2025 ORIGINAL SCALE: 1"=40', DRAWING NO.: SV 01, CAD FILE: 70977 SURVEY.DWG.PDF.
2. HORIZONTAL DATUM: NAD83 VERTICAL DATUM: NAVD88
3. PROPOSED PRELIMINARY WATER MAIN ALIGNMENT TO BE COORDINATED WITH TOWN ON COVENTRY AND THE CONNECTICUT WATER COMPANY STANDARDS.
4. LOCATION OF PROPOSED RESIDENTIAL SERVICES TO BE CONFIRMED.
5. FEMA FLOOD PLAIN ZONE A BOUNDARY DIGITIZED FROM FIRM FLOOD INSURANCE RATE MAP, TOWN OF COVENTRY, CONNECTICUT, TOLLAND COUNTY. COMMUNITY PANEL NUMBER 090110 0015 C. EFFECTIVE DATE JUNE 4, 1980.

PERMIT DRAWING
NOT FOR CONSTRUCTION

0 75' 150' 300' 450'
SCALE IN FEET 1" = 150'

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

APPROVED:

OVERALL SITE PLAN AND SHEET INDEX

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-1
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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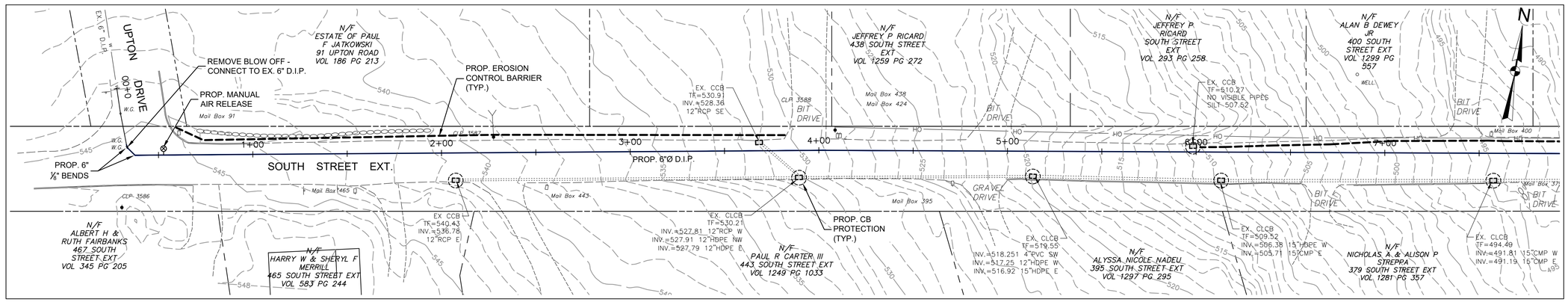
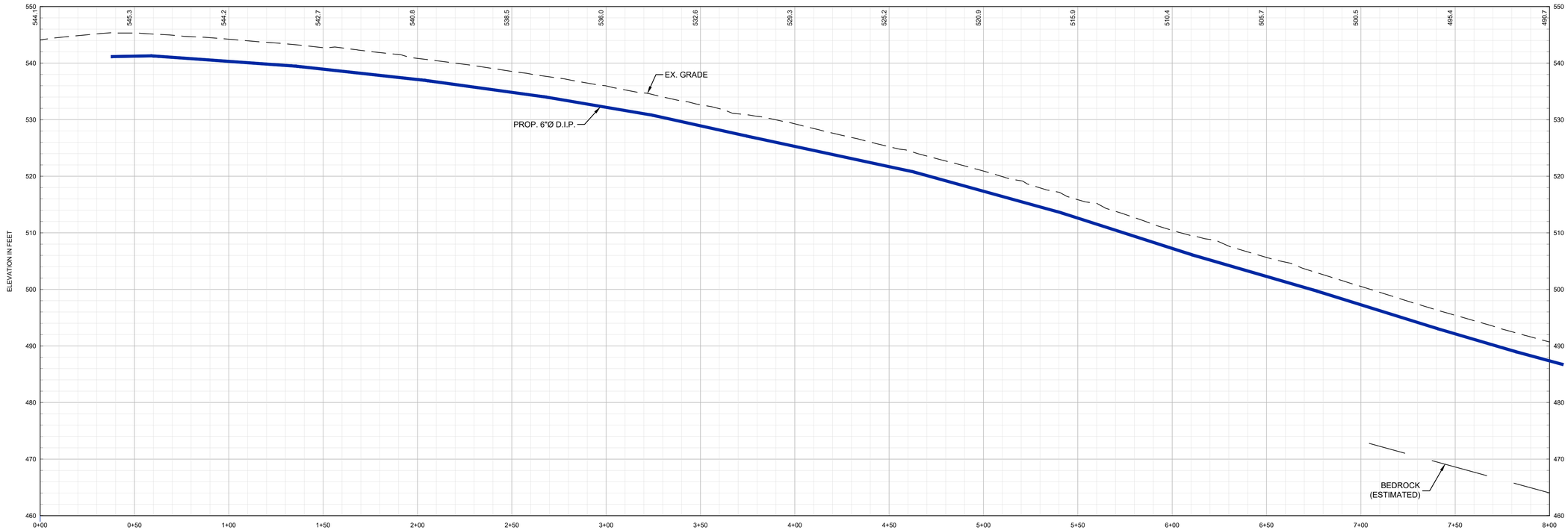


0 15' 30' 60' 90'

SCALE IN FEET 1" = 30'



VERTICAL SCALE IN FEET 1" = 10'

0 5' 10' 20'

0 15' 30' 60'

HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 0+00 TO 8+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-2
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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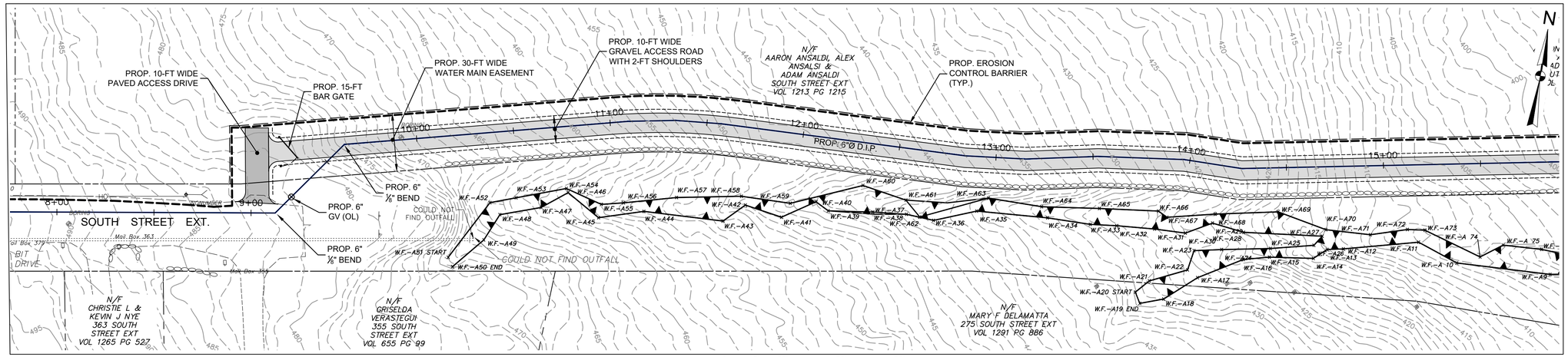

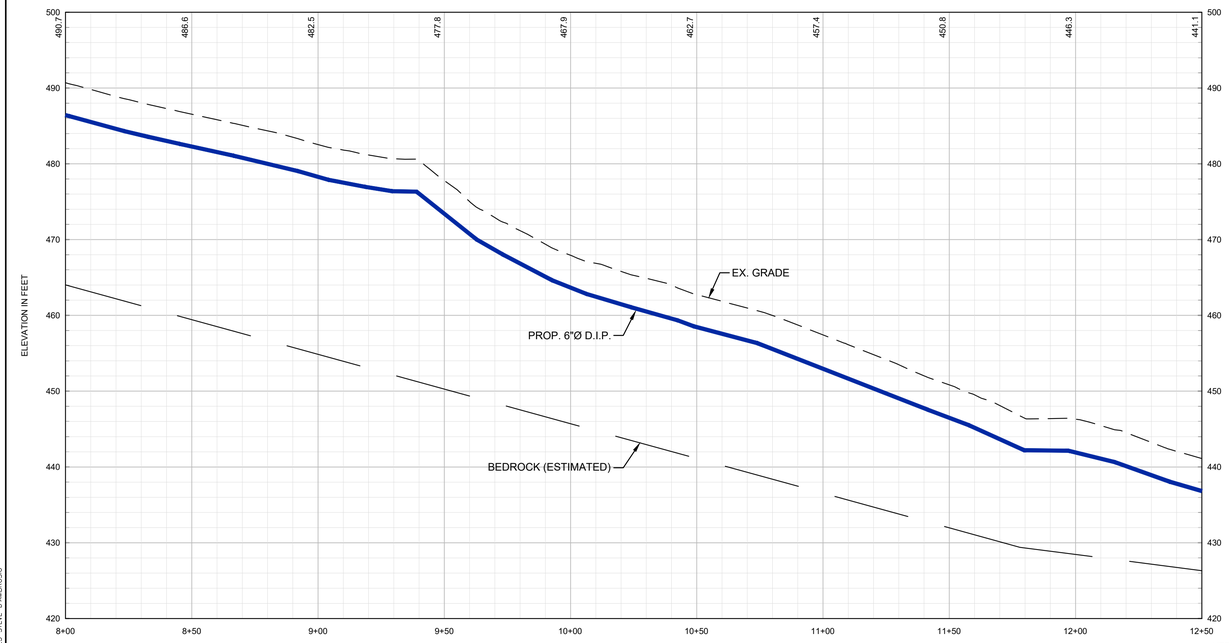

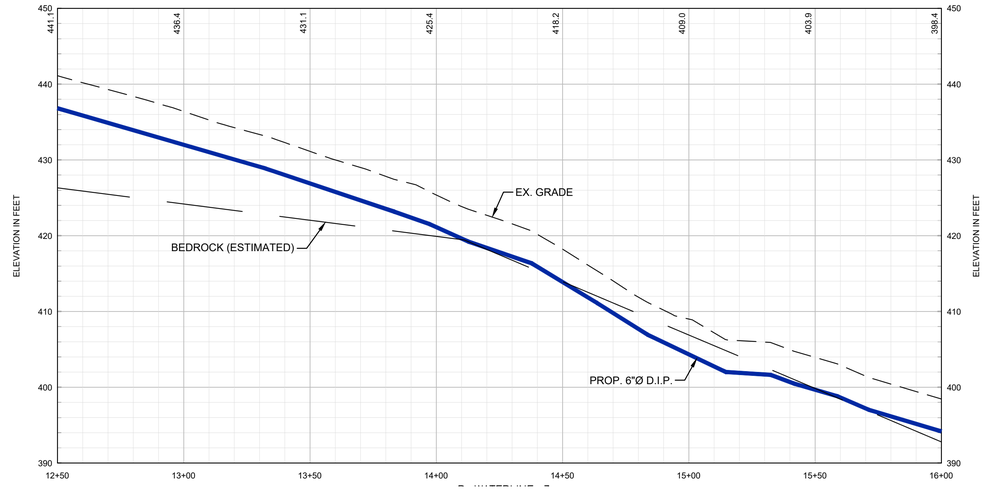

VERTICAL SCALE IN FEET 1" = 10'
0 5' 10' 20'
0 15' 30' 60'
HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- WETLAND BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR (535)
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE (x x)
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES (OH)
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE (W.G.)
- EXISTING WELL (WELL)
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 8+00 TO 16+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-3
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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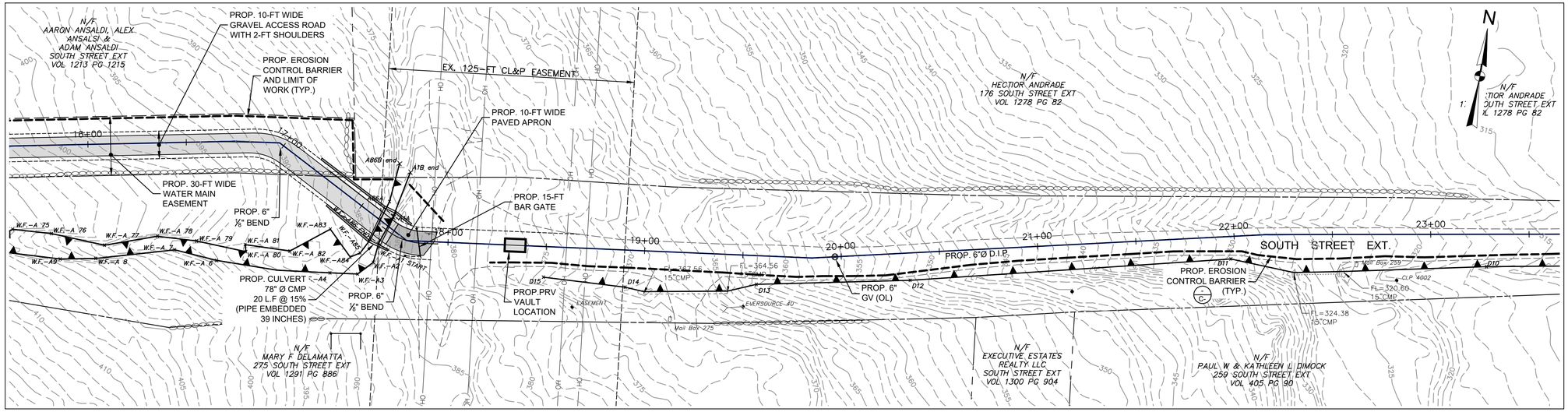

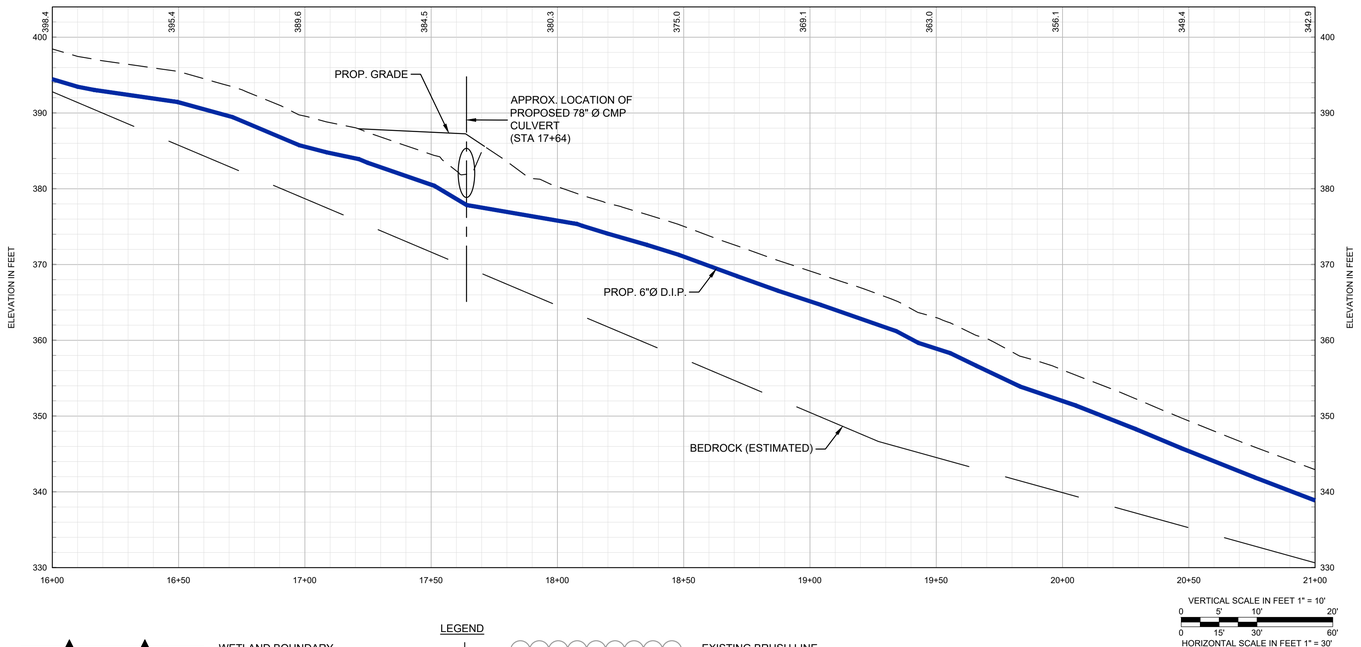

LEGEND

- WETLAND BOUNDARY
- EXISTING 1-FT CONTOUR
- 535 EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- x x EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- OH EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- W.G. EXISTING WATER GATE
- WELL. EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 16+00 TO 23+50

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-4
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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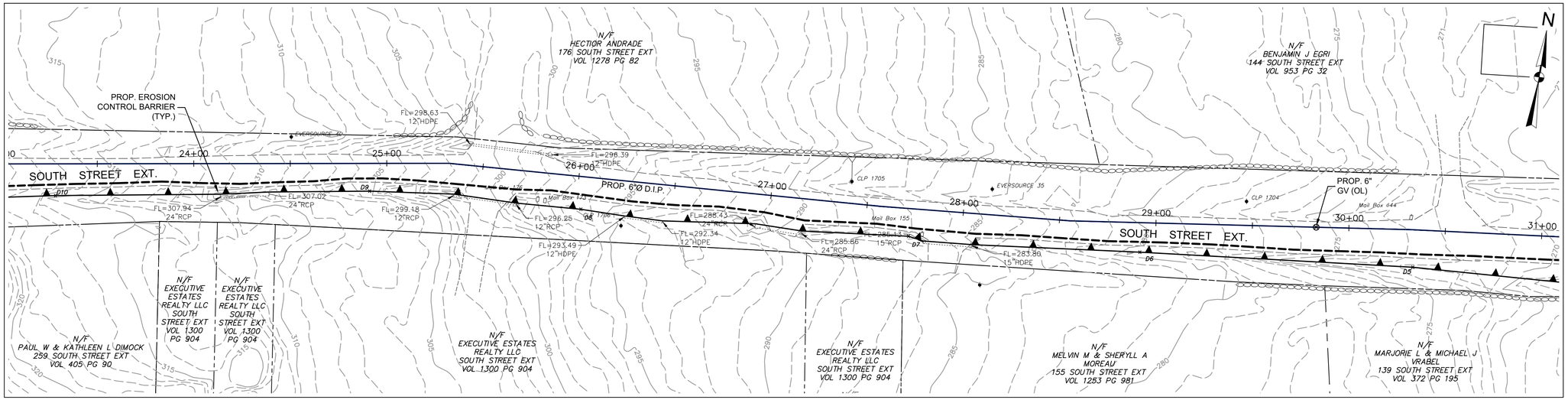
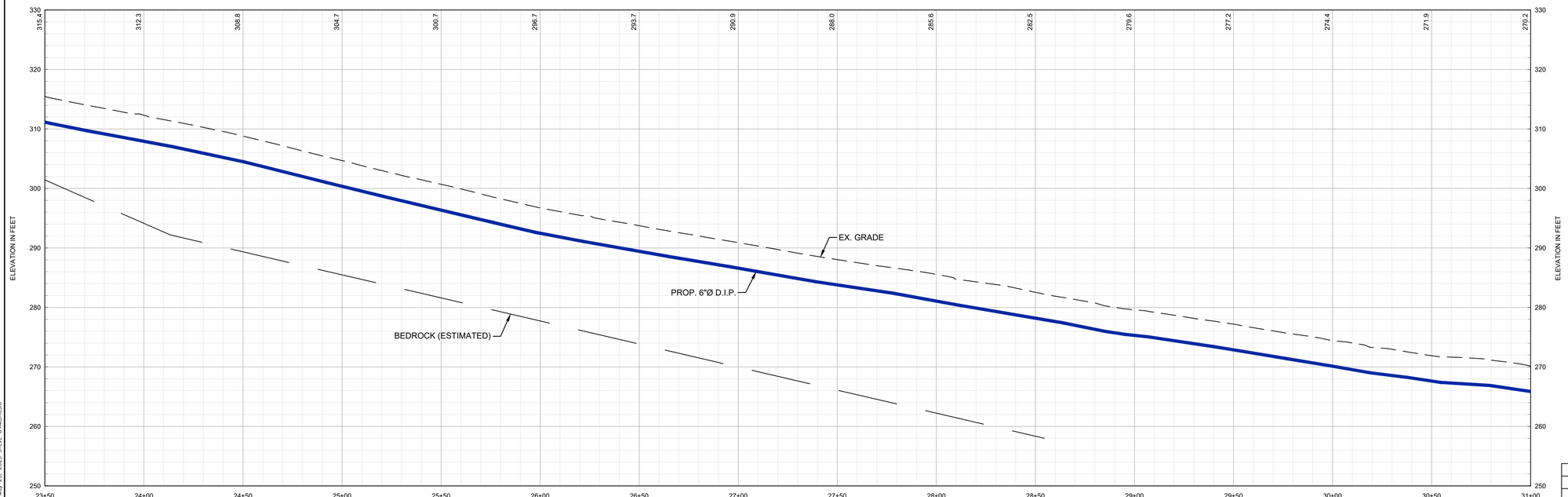
GZA-21x17144-01.R(0)\CAD\17144-01_WATERMAINLAYOUT-INLAND WETLANDS.DWG SHEET 4 May 23, 2025 STEVE D'AMBROSIO



0 15' 30' 60' 90'
SCALE IN FEET 1" = 30'



VERTICAL SCALE IN FEET 1" = 10'
0 5' 10' 20'
0 15' 30' 60'
HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 23+50 TO 31+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-5
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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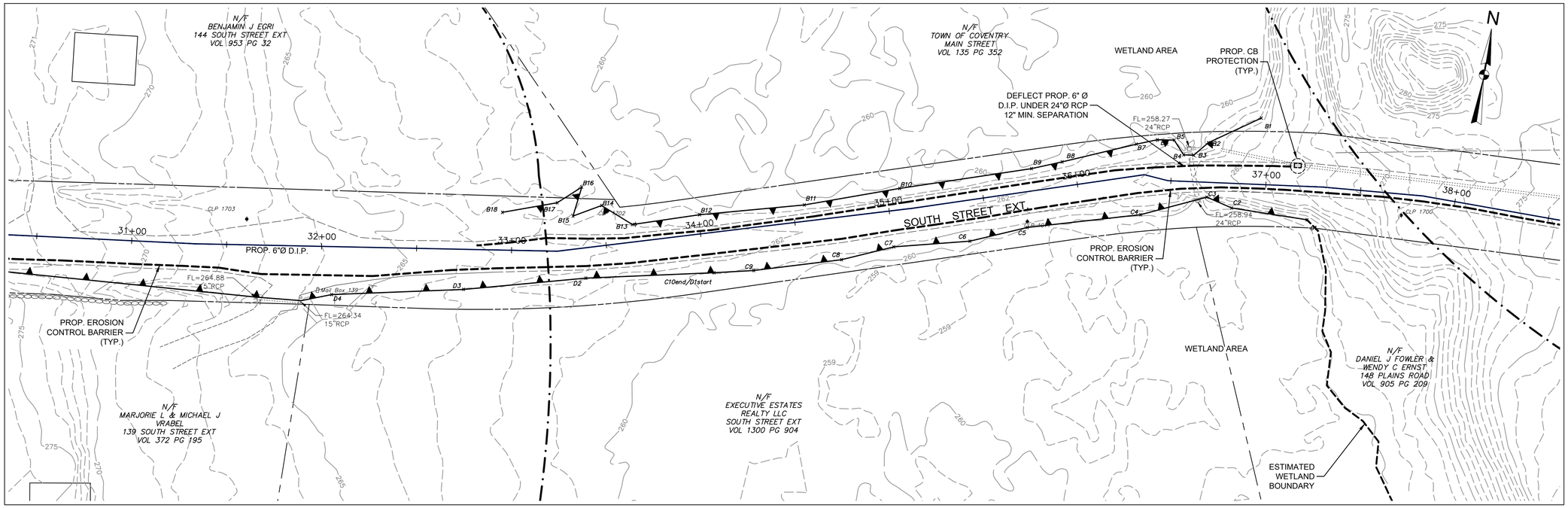

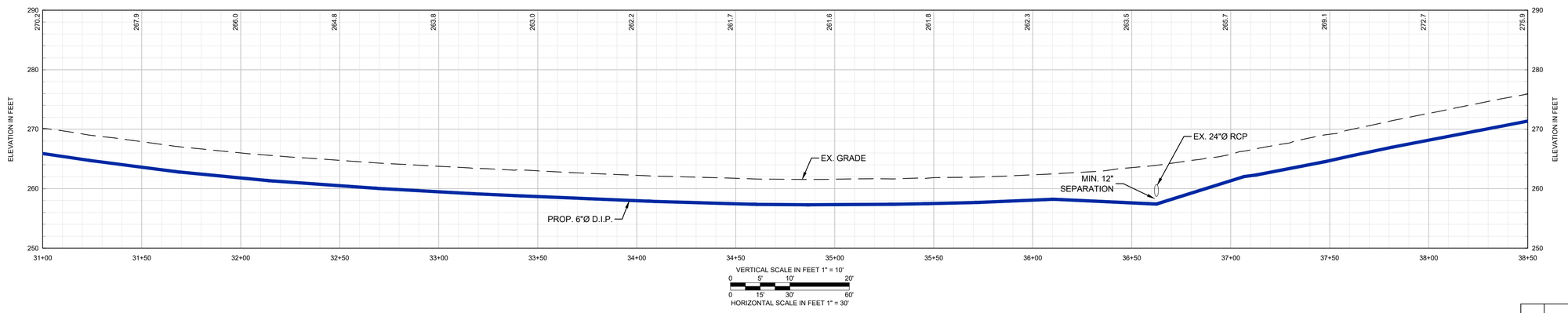

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR (535)
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE (x x)
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES (OH)
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE (W.G.)
- EXISTING WELL (WELL)
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 31+00 TO 38+50

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-6
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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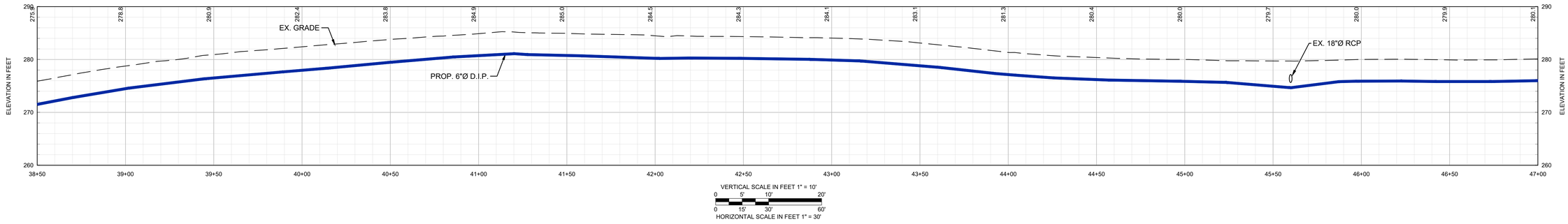

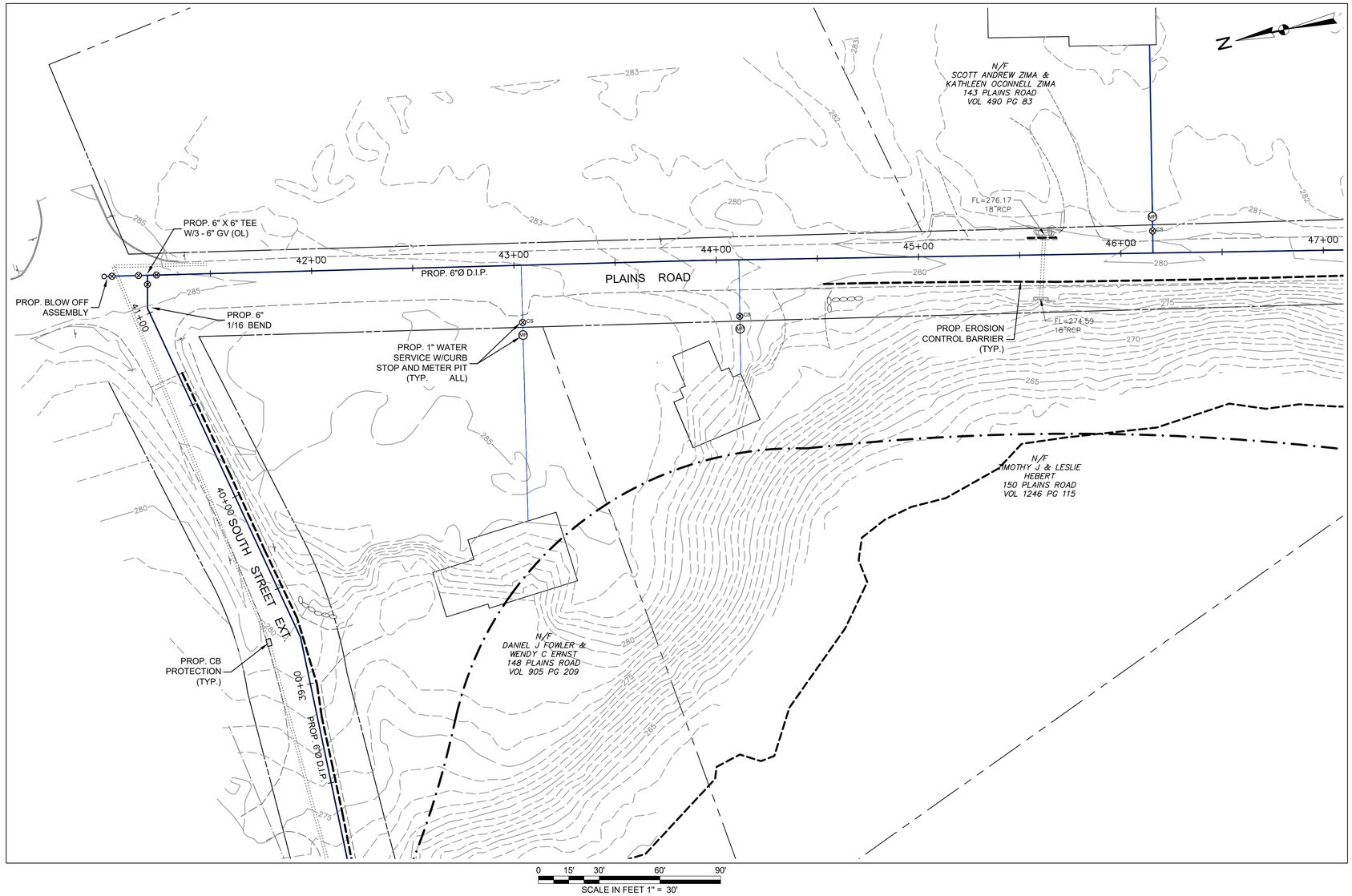

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

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1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

APPROVED:

SOUTH STREET EXT. PLAN AND PROFILE
STA 38+50 TO 46+50

PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-7
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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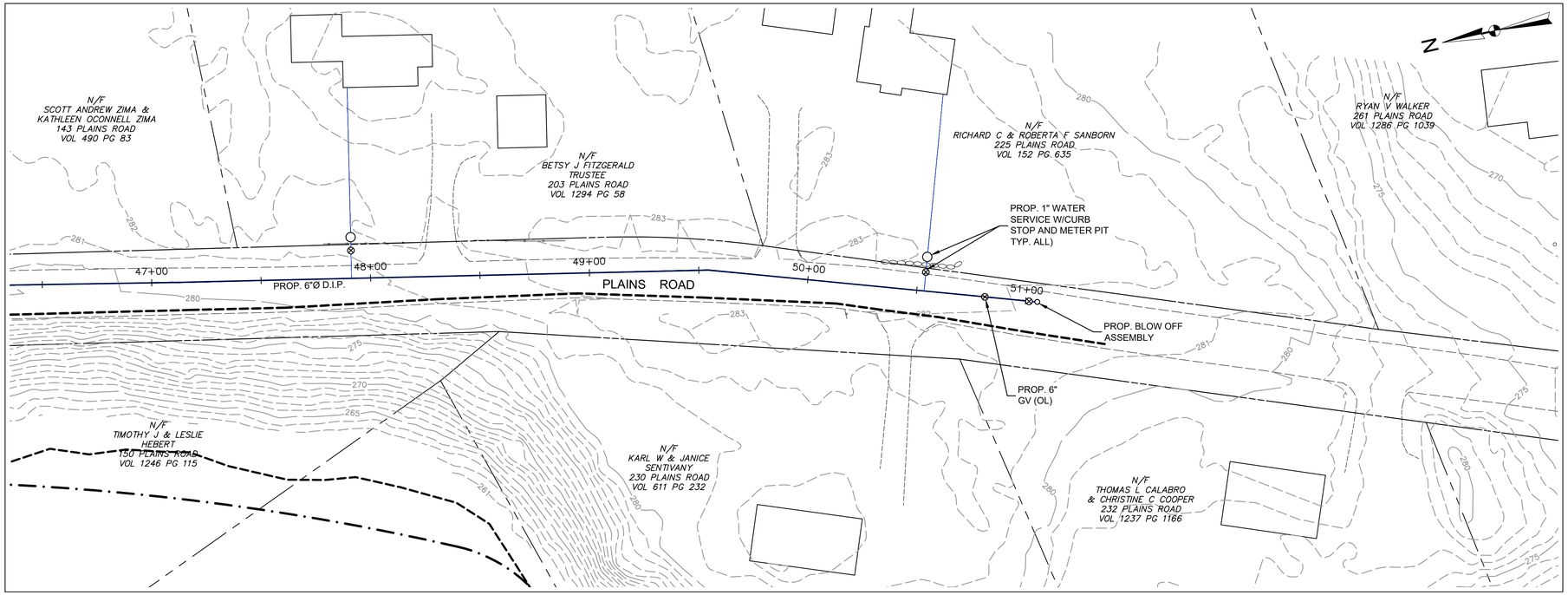

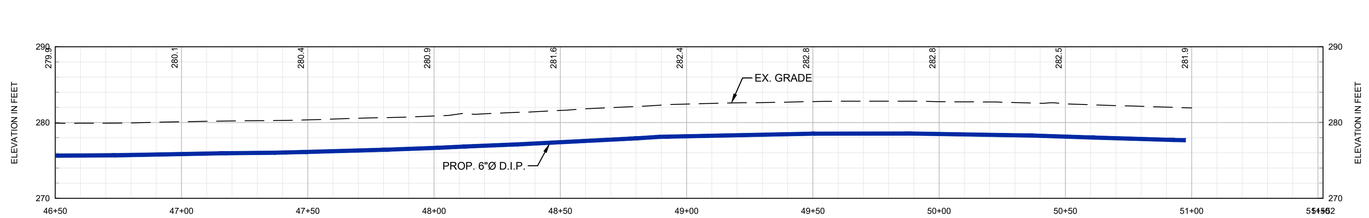

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- 535 EXISTING 5-FT CONTOUR
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- OH EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- W.G. EXISTING WATER GATE
- WELL. EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

PLAINS ROAD PLAN AND PROFILE
STA 46+50 TO 52+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-8
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. --	

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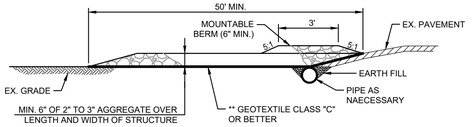

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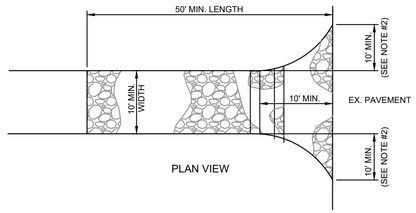
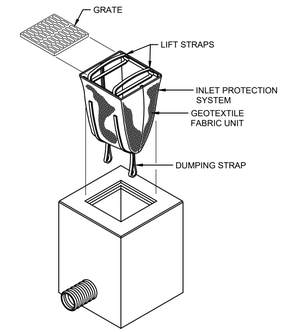


PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).
2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIGNED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM DIAMETER PIPE WILL BE REQUIRED.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

X / C-X STABILIZED CONSTRUCTION ENTRANCE
NTS

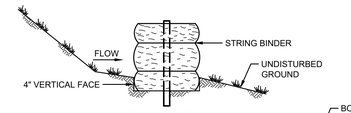


INSTALLATION AND MAINTENANCE GUIDELINES

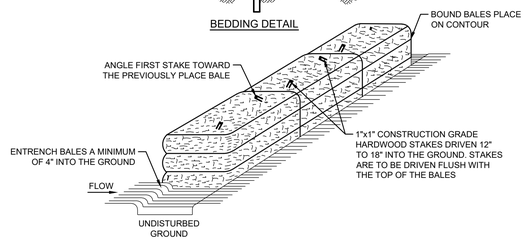
INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE GEOTEXTILE FABRIC UNIT SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE GEOTEXTILE FABRIC UNIT. IF THE CONTAINMENT AREA IS MORE THAT 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

X / C-X CATCH BASIN SEDIMENTATION PROTECTION
NTS

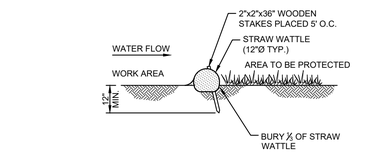


BEDDING DETAIL



ANCHORING DETAIL

X / C-X STRAW BALE SILT FENCE BARRIER
NTS



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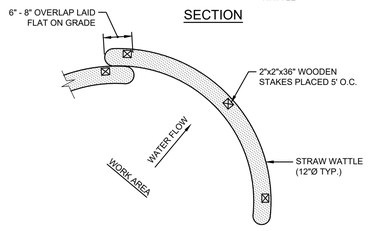
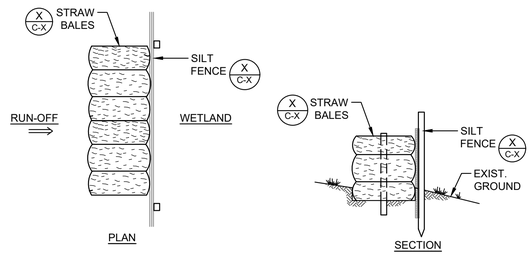


PLAN

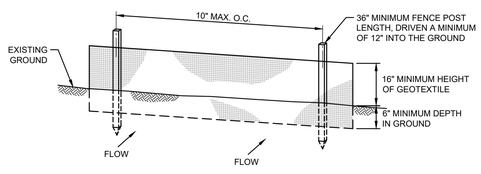
X / C-X STRAW WATTLE FOR SEDIMENT CONTROL
NTS



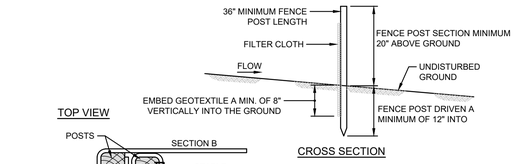
PLAN

SECTION

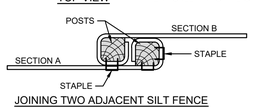
X / C-X COMBINATION SILT FENCE / STRAW BALE EROSION CONTROL BARRIER
NTS



PERSPECTIVE VIEW



CROSS SECTION



JOINING TWO ADJACENT SILT FENCE SECTIONS

X / C-X SILT FENCE
NTS

SEDIMENT AND EROSION CONTROL NOTES:

1. SEDIMENT AND EROSION CONTROLS SHOWN ON DRAWINGS DEPICT THE MINIMUM MEASURES REQUIRED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFIRMING ADEQUACY OF PROPOSED EROSION AND SEDIMENT CONTROL MEASURES AND PREPARATION OF THEIR CONTRACTOR'S EROSION CONTROL PLAN.
2. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
3. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE SEDIMENT AND EROSION CONTROL PLAN PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES UNTIL THE AREAS DRAINING TO THEM ARE FINAL STABILIZED. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED. CONDUCT INSPECTIONS AND REPORTING IN ACCORDANCE WITH ALL PERMITS.
4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN, AT NO ADDITIONAL COST TO THE OWNER, ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY FOR PERMIT COMPLIANCE BY THE CONTRACTOR, THE OWNER AND/OR THEIR REPRESENTATIVES, OR BY FEDERAL/STATE/LOCAL GOVERNMENT INSPECTORS.
5. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS AND THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL".
6. A CONSTRUCTION ENTRANCE FOR THIS PROJECT IS MANDATORY TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC THOROUGHFARES. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARES. ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARES SHALL BE REMOVED IMMEDIATELY.
7. ALL SEDIMENT BASINS, TRAP EMBANKMENTS, SWALES, PERIMETER DIKES, AND PERMANENT SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES, WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. NO AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL BARRIER OR LIMIT OF WORK SHALL BE DISTURBED.
8. THE CONTRACTOR SHALL APPLY SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS, SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN 50 FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPTED FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
9. STOCKPILES WHICH HAVE NOT BEEN USED FOR 14 CALENDAR DAYS, SHALL BE STABILIZED THROUGH THE APPLICATION OF SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
10. ALL CATCH BASINS OR OTHER DRAIN INLETS WHICH MAY RECEIVE STORMWATER FROM DISTURBED AREAS SHALL BE PROVIDED WITH SUITABLE INLET PROTECTION CONSISTING OF AN OPEN–TOP FILTER FABRIC BAG THAT IS DESIGNED TO HANG UNDERNEATH A STORM GRATE TO FILTER SEDIMENT–LADEN STORMWATER. A SINGLE ROW OF HAY BALES AROUND THE INLET GRATE SHALL ALSO BE INSTALLED AND MAINTAINED UNTIL PAVING HAS BEEN COMPLETED.
11. EFFLUENT FROM DEWATERING OPERATIONS AND LINE FLUSHING DISCHARGES SHALL BE DIRECTED INTO FIBER MATS, NETTING, RIPRAP, OR NATURALLY OCCURRING GROUND COVER TO MINIMIZE EROSION. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE PUMPED EITHER TO SEDIMENT TANKS, SEDIMENT BAGS, AND/OR SEDIMENT TRAPS FOR SEDIMENT REMOVAL. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES AND PROJECT SPECIFICATIONS AND IN A MANNER THAT DOES NOT ADVERSELY AFFECT AREAS OUTSIDE OF THE LIMIT OF WORK.
12. TEMPORARY SEDIMENT TRAP(S) SHALL BE CLEANED OUT AND RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE HALF (1/2) THE DEPTH BETWEEN THE OUTLET CREST AND THE BOTTOM OF THE TRAP.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING, CALCIUM CHLORIDE, OR OTHER EFFECTIVE MEANS OF CONTROL.
14. ALL WASTE MATERIALS GENERATED AT THE SITE SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OR STORED IN A SECURELY–COVERED CONTAINER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. CONTAINER SHALL BE EMPTIED ON A REGULAR BASIS AND AS NECESSARY. NO CONSTRUCTION WASTE OR DEBRIS SHALL BE BURIED ONSITE.
15. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED AND WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
16. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN 24 HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS 48 HOURS AFTER THE END OF A RAINFALL, AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS OR OPENINGS.
17. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES THE CONTRACTOR SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS WHEN PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH OR OTHER ACCEPTABLE MEANS SHALL BE APPLIED TO DISTURBED AREAS.
18. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHIN (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CLEANED AND CONVERTED TO THEIR PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL. ALL STORM DRAINAGE STRUCTURES, SUMPS, AND PIPES SHALL BE CLEANED OF ALL SEDIMENTS PRIOR TO FINAL PAYMENT.

PERMIT DRAWING
NOT FOR CONSTRUCTION

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SEDIMENT AND EROSION CONTROL DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-9
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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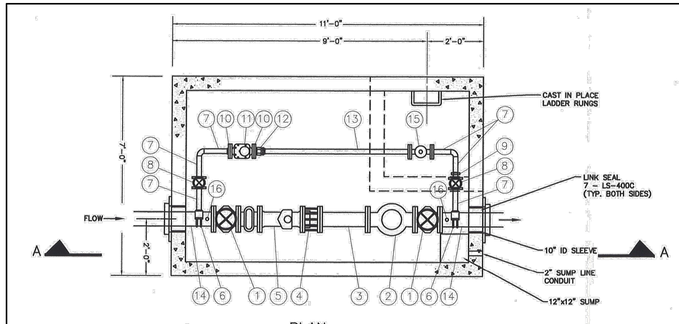
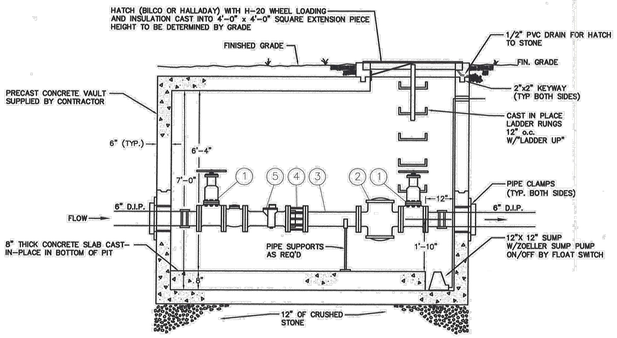
GZA-Z:\f7144-01\R20\CAD\V17\4.01 - DETAILS.DWG SAE DETAILS May 23, 2025 STEVE D'AMBROSIO



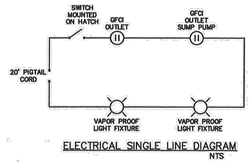
PLAN
SCALE: 3/8"=1'-0"



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

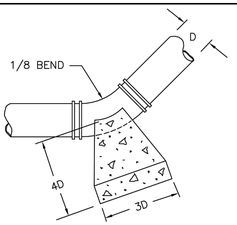
STANDARD 6" PRV PIT
NTS

PIPING MATERIAL LIST			
SYM	QTY	DESCRIPTION	MANUFACT. - MODEL
1	2	6" FLANGED GATE VALVE	
2	1	6" FLANGED PRESSURE REDUCING VALVE	CLA-VAL 90-01
3	1	6" FLG x FLG SPOOL PIECE 1'-10" LONG	
4	1	6" DISMANTLING JOINT	MUELLER
5	1	6" TURBO METER W/STRAINER	SENSUS W2000
6	2	6" PIPE SADDLE DOUBLE STRAP W/2" TAP	
7	6	2"x9" LONG BRASS THREADED NIPPLE	
8	2	2" THREADED GATE VALVE	
9	1	2" NPT TO COPPER ADAPTER	
10	1	METER FLANGE 2" MTR X 2" IPT F	FORD No.7F
11	1	2" METER	SENSUS TURBO METER W-160
12	1	LOK-PAK METER COUPLING	FORD No. CF34-77
13	2	2" TYPE "L" COPPER PIPE CUT AS REQ'D	
14	1	6" FLG x PE SPOOL PIECE CUT AS REQ'D	
15	1	2" FLANGED PRESSURE REDUCING VALVE	CLA-VAL 90-01
16	2	1/4" GAUGE PORT	

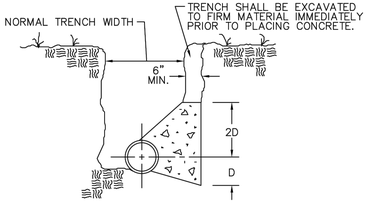


ELECTRICAL SINGLE LINE DIAGRAM
NTS

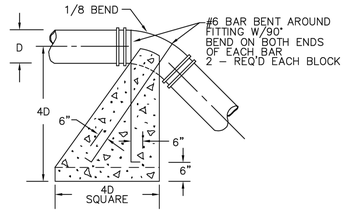
GENERAL NOTES:
1. LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
2. WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING GLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
4. ALL WATER MAIN SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE EXCEPT WHERE NOTED.
5. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN FIELD



HORIZONTAL THRUST BLOCK DETAIL (PLAN VIEW)



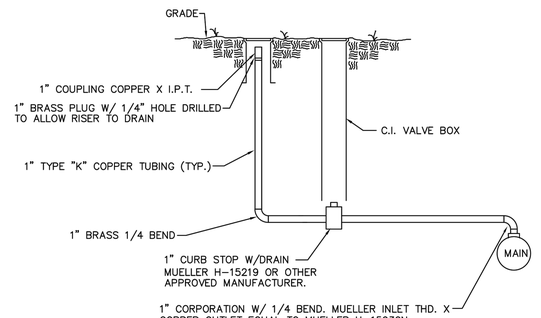
HORIZONTAL THRUST BLOCK DETAIL



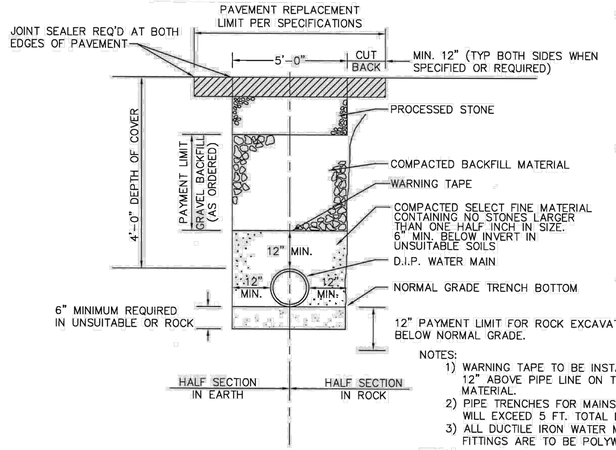
VERTICAL THRUST BLOCK DETAIL

NOTES:
1) 3000 PSI CONCRETE TO BE USED FOR THRUST BLOCKS.
2) D-DIAMETER OF WATER MAIN.
3) MEGA-LUG RESTRAINING GLANDS SHALL BE USED ON ALL MJ FITTINGS.
4) SOLID CONCRETE BLOCKS WITH WEDGES WILL BE PERMITTED ON MAINS UP TO 10" ALL 12" OR LARGER SHALL BE POURED THRUST BLOCKS.
5) LOCKING GASKETS SHALL BE INSTALLED A MIN. 2 FULL PIPE LENGTHS ON EITHER SIDI OF A BEND.

THRUST BLOCK DETAILS
NTS



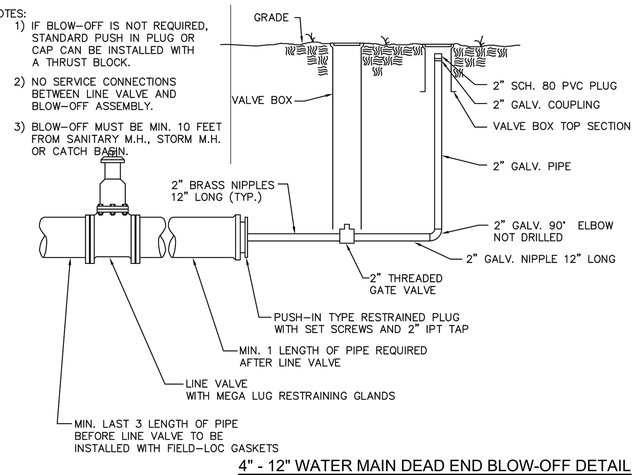
MANUAL AIR RELEASE VALVE
NTS



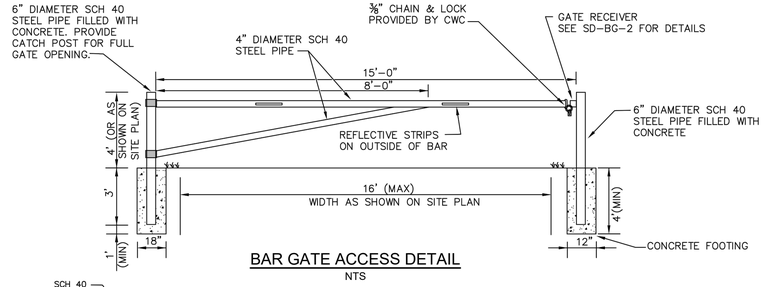
NOTES:
1) WARNING TAPE TO BE INSTALLED A MIN. OF 12" ABOVE PIPE LINE ON TOP OF SELECT FINE MATERIAL.
2) PIPE TRENCHES FOR MAINS ABOVE 12" DIA. WILL EXCEED 5 FT. TOTAL DEPTH.
3) ALL DUCTILE IRON WATER MAIN AND FITTINGS ARE TO BE POLYWRAPPED.

WATERMAIN INSTALLATION DETAIL
(TYPICAL TRENCH AND PAYMENT LIMITS)
NTS

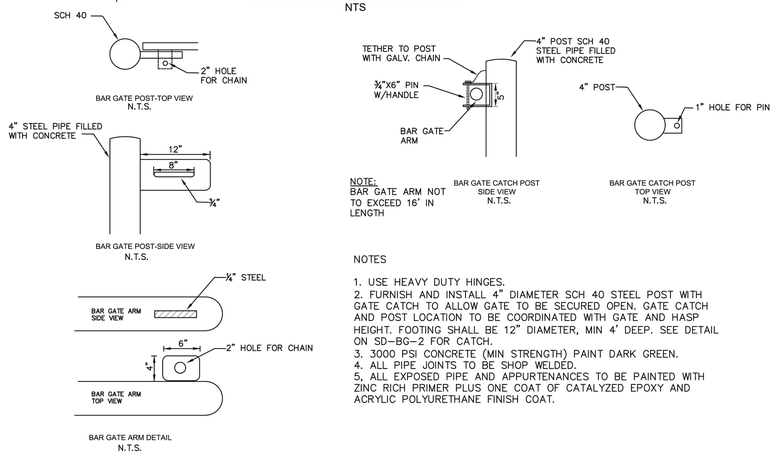
NOTES:
1) IF BLOW-OFF IS NOT REQUIRED, STANDARD PUSH IN PLUG OR CAP CAN BE INSTALLED WITH A THRUST BLOCK.
2) NO SERVICE CONNECTIONS BETWEEN LINE VALVE AND BLOW-OFF ASSEMBLY.
3) BLOW-OFF MUST BE MIN. 10 FEET FROM SANITARY M.H., STORM M.H. OR CATCH BASIN.



4" - 12" WATER MAIN DEAD END BLOW-OFF DETAIL
NTS



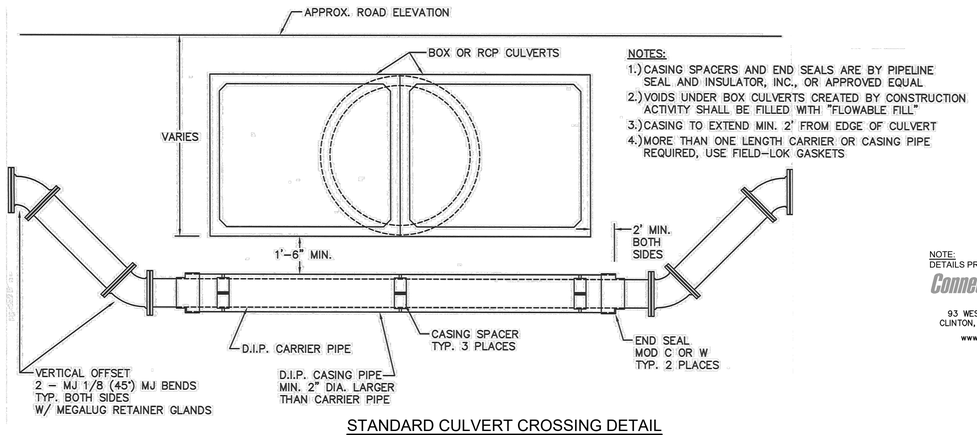
BAR GATE ACCESS DETAIL
NTS



NOTE:
BAR GATE ARM NOT TO EXCEED 16' IN LENGTH

NOTES
1. USE HEAVY DUTY HINGES.
2. FURNISH AND INSTALL 4" DIAMETER SCH 40 STEEL POST WITH GATE CATCH TO ALLOW GATE TO BE SECURED OPEN. GATE CATCH AND POST LOCATION TO BE COORDINATED WITH GATE AND HASP HEIGHT. FOOTING SHALL BE 12" DIAMETER, MIN 4' DEEP. SEE DETAIL ON SD-BG-2 FOR CATCH.
3. 3000 PSI CONCRETE (MIN STRENGTH) PAINT DARK GREEN.
4. ALL PIPE JOINTS TO BE SHOP WELDED.
5. ALL EXPOSED PIPE AND APPURTENANCES TO BE PAINTED WITH ZINC RICH PRIMER PLUS ONE COAT OF CATALYZED EPOXY AND ACRYLIC POLYURETHANE FINISH COAT.

BAR GATE POST & CATCH DETAIL
NTS



NOTES:
1.) CASING SPACERS AND END SEALS ARE BY PIPELINE SEAL AND INSULATOR, INC., OR APPROVED EQUAL
2.) VOIDS UNDER BOX CULVERTS CREATED BY CONSTRUCTION ACTIVITY SHALL BE FILLED WITH "FLOWABLE FILL"
3.) CASING TO EXTEND MIN. 2' FROM EDGE OF CULVERT
4.) MORE THAN ONE LENGTH CARRIER OR CASING PIPE REQUIRED, USE FIELD-LOK GASKETS

STANDARD CULVERT CROSSING DETAIL
NTS

NOTE:
DETAILS PROVIDED BY
ConnecticutWater
93 WEST MAIN STREET
CLINTON, CT 06413-1600
www.ctwater.com

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NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

DETAILS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. www.gza.com		TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-10
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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GZA-Z:\47144-01\R&D\CAD\47144-01 - DETAILS.DWG WATER DETAILS May 23, 2025 STEVE D'AMBROSIO

APPENDIX C

SITE PHOTOGRAPHS

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
1	5/16/25

Direction Photo Taken:
West

Description:
Photo taken of the A-Series intermittent watercourse, at flag A-51-A2, near the edge of the paved, western section of South Street Extension.

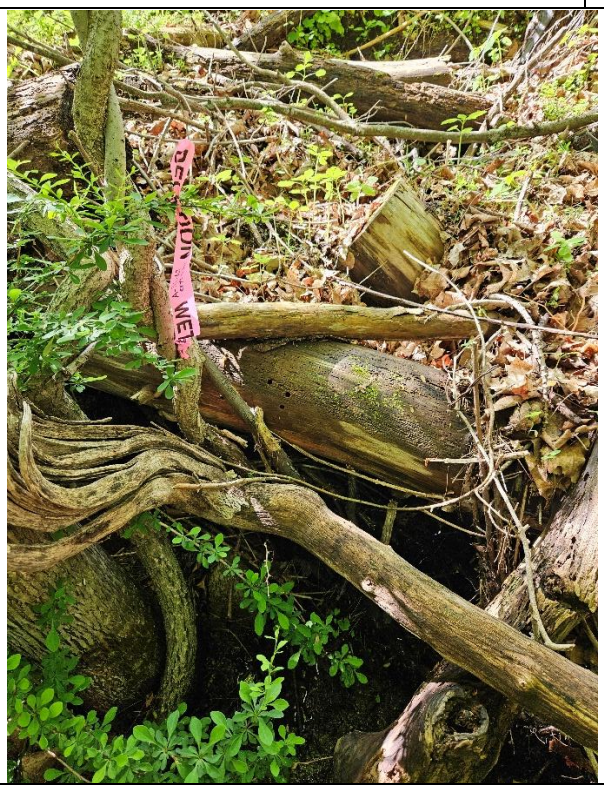


Photo No.	**Date:**
2	5/16/25

Direction Photo Taken:
East

Description:
Image of the A-Series intermittent watercourse, showing presence of flowing water following a storm event.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
3	9/27/24

Direction Photo Taken:
West

Description:
Photo of the A-Series watercourse in the overgrown, forested section of South Street Extension.

Photo No.	**Date:**
4	9/27/24

Direction Photo Taken:
East

Description:
Image taken along the A-Series watercourse, showing evidence of scour along the channel.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
5	9/27/24

Direction Photo Taken:
N/A

Description:
Photo showing evidence of scour with standing water observed within the A-Series.

Photo No.	**Date:**
6	5/16/25

Direction Photo Taken:
East

Description:
Photo taken at the top of the D-Series intermittent watercourse, taken near flag D15 near the top of the eastern gravel portion on the southern side of South Street Extension.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
7	5/16/25

Direction Photo Taken:
Southwest

Description:
Photo taken near flag D11, showing evidence of scour along the channel bank and flowing water. Observed hydrophytic vegetation included jewelweed (*Impatiens capensis*). A confluence was observed between the D-series watercourse and flow presumably originating on private property.

Photo No.	**Date:**
8	5/16/25

Direction Photo Taken:
West

Description:
Image of flag D6, showing flowing water and scour along the channel banks.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
9	5/16/25

Direction Photo Taken:
East

Description:
Image showing flag C10/D1, showing the end of the intermittent watercourse and the start of the C-Series Wetland. Here, the channel becomes less defined as the flow enters the wetland.

Photo No.	**Date:**
10	5/16/25

Direction Photo Taken:
South

Description:
Photo taken near wetland flag C7, looking towards the wetland, showing skunk cabbage (*Symplocarpus foetidus*) and sensitive fern (*Onoclea sensibilis*).

Photographic Log

Client Name: Client Name	**Site Location:** Site Location - Site City, State	**Project No.** Project No.

Photo No.	**Date:**
1	5/16/25

Direction Photo Taken:
East

Description:
Image showing flag C3 near the South Street Extension southern culvert.

Photo No.	**Date:**
2	5/16/25

Direction Photo Taken:
Southwest

Description:
Photo taken near flag C1, near the intersection of South Street Extension and Plains Road. The estimated portion of the Wetland Series C's boundary extends south of South Street Extension along the toe of slope.

Photographic Log

Client Name: Client Name	**Site Location:** Site Location - Site City, State	**Project No.** Project No.

Photo No.	**Date:**
1	5/16/25

Direction Photo Taken:
West

Description:
Image taken near flag B7, looking toward B8, on the northern side of South Street Extension. Dominant hydrophytic vegetation included skunk cabbage, sensitive fern, and northern spicebush (*Lindera benzoin*). A depleted matrix and a depleted below dark layer were observed starting at 6 inches.

Photo No.	**Date:**
2	5/16/25

Direction Photo Taken:
North

Description:
Photo looking into Wetland Series B near flag B12, showing standing water, skunk cabbage, and tussock sedge (*Carex stricta*).

APPENDIX D

WETLAND DATA FORMS

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-1

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): mostly flat Local relief (concave, convex, none): none Slope %: 1

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.75282 Long: -72.27590 Datum: WGS84

Soil Map Unit Name: Raypol silt loam, 0 to 3 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in. Plot completed near B17 and B18

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-1

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Berberis thunbergii*	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	10 =Total Cover		
Herb Stratum (Plot size: 5ft)			
1. *Solidago rugosa*	20	Yes	FAC
2. *Onoclea sensibilis*	5	No	FACW
3. *Berberis thunbergii*	5	No	FACU
4. *Artemisia vulgaris*	5	No	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35 =Total Cover		
Woody Vine Stratum (Plot size: 30ft)			
1. *Celastrus orbiculatus*	10	Yes	FACU
2. *Vitis aestivalis*	10	Yes	FACU
3.			
4.			
	20 =Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	20	x 3 =	60
FACU species	35	x 4 =	140
UPL species	5	x 5 =	25
Column Totals:	65 (A)		235 (B)

Prevalence Index = B/A = 3.62

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-2	2.5YR 3/2	100					Loamy/Clayey	
2-19	7.5YR 3/4	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Soil texture observed was sandy loam

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-2

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): mostly flat Local relief (concave, convex, none): concave Slope %: 1

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.75294 Long: -72.27573 Datum: WGS84

Soil Map Unit Name: Raypol silt loam, 0 to 3 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in. Plot completed near flags B17 and B18

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): ____
Water Table Present?	Yes ____	No ____	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-2

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. *Acer rubrum*	90	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	90	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Carya ovata*	50	Yes	FACU
2. *Lindera benzoin*	50	Yes	FACW
3.			
4.			
5.			
6.			
7.			
	100	=Total Cover	
Herb Stratum (Plot size: 5ft)			
1. *Onoclea sensibilis*	70	Yes	FACW
2. *Symplocarpus foetidus*	50	Yes	OBL
3. *Toxicodendron radicans*	30	No	FAC
4. *Rosa multiflora*	10	No	FACU
5. *Maianthemum canadense*	5	No	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	165	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	50	x 1 =	50
FACW species	120	x 2 =	240
FAC species	120	x 3 =	360
FACU species	65	x 4 =	260
UPL species	0	x 5 =	0
Column Totals:	355 (A)		910 (B)

Prevalence Index = B/A = 2.56

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-6	2.5YR 2.5/1	100			RM		Loamy/Clayey	
6-20	10YR 4/1	60	7.5YR 5/6	30	C	M	Loamy/Clayey	
			7.5YR 5/8	10	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- _X_ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- _X_ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _X_ **No** ___

Remarks:

Texture observed in field was sandy clay loam

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-3

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): top of hill Local relief (concave, convex, none): convex Slope %: 2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.7530 Long: -72.27437 Datum: WGS84

Soil Map Unit Name: Hinckley loamy sand, 15 to 45 percent slopes NWI classification: PSS1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in; Plot completed near flags C1 and C2

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-3

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. *Pinus strobus*	40	Yes	FACU
3. *Quercus rubra*	30	Yes	FACU
4. *Quercus velutina*	30	Yes	UPL
5.			
6.			
7.			
	100	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Lindera benzoin*	10	Yes	FACW
2. *Acer rubrum*	10	Yes	FAC
3. *Elaeagus umbellata*	10	Yes	UPL
4.			
5.			
6.			
7.			
	30	=Total Cover	
Herb Stratum (Plot size: 5ft)			
1. *Elaeagus umbellata*	20	Yes	UPL
2. *Parthenocissus quinquefolia*	10	Yes	FACU
3. *Chimaphila maculata*	5	No	UPL
4. *Acer rubrum*	2	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	37	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	12	x 3 =	36
FACU species	80	x 4 =	320
UPL species	65	x 5 =	325
Column Totals:	167 (A)		701 (B)

Prevalence Index = B/A = 4.20

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-2	7.5YR 2.5/1	100					Loamy/Clayey	
2-12	10YR 3/6	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 12

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Texture observed was sandy loam

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-4

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): concave Slope %: 2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.7530 Long: -72.27437 Datum: WGS84

Soil Map Unit Name: Hinckley loamy sand, 15 to 45 percent slopes NWI classification: PSS1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in; Plot completed near flags C1 and C2

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): ____
Water Table Present?	Yes X	No ____	Depth (inches): 15
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-4

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. *Acer rubrum*	80	Yes	FAC
3. *Carpinus caroliniana*	50	Yes	FAC
4.			
5.			
6.			
7.			
	130	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Alnus incana*	30	Yes	FACW
2. *Quercus alba*	5	No	FACU
3.			
4.			
5.			
6.			
7.			
	35	=Total Cover	
Herb Stratum (Plot size: 5ft)			
1. *Phragmites australis*	50	Yes	FACW
2. *Symplocarpus foetidus*	40	Yes	OBL
3. *Toxicodendron radicans*	30	Yes	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	120	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	80	x 2 =	160
FAC species	160	x 3 =	480
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	285 (A)		700 (B)

Prevalence Index = B/A = 2.46

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-4	5YR 2.5/1	60	5YR 3/3	40	C	M	Loamy/Clayey	
4-9	10YR 3/2	60	10YR 4/4	40	C	M	Loamy/Clayey	
9-14	10YR 3/3	90	2.5Y 2.5/1	5	RM	M	Loamy/Clayey	
			7.5YR 4/6	5	C	PL		
14-20	10YR 2/1	50	7.5YR 3/2	50	RM	M	Loamy/Clayey	
20-24	10YR 2/1	60	10YR 5/1	40	D	M	Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sand texture observed was sandy clay loam

GZA GeoEnvironmental, Inc.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
1	5/16/25

Direction Photo Taken:
West

Description:
Photo taken of the A-Series intermittent watercourse, at flag A-51-A2, near the edge of the paved, western section of South Street Extension.

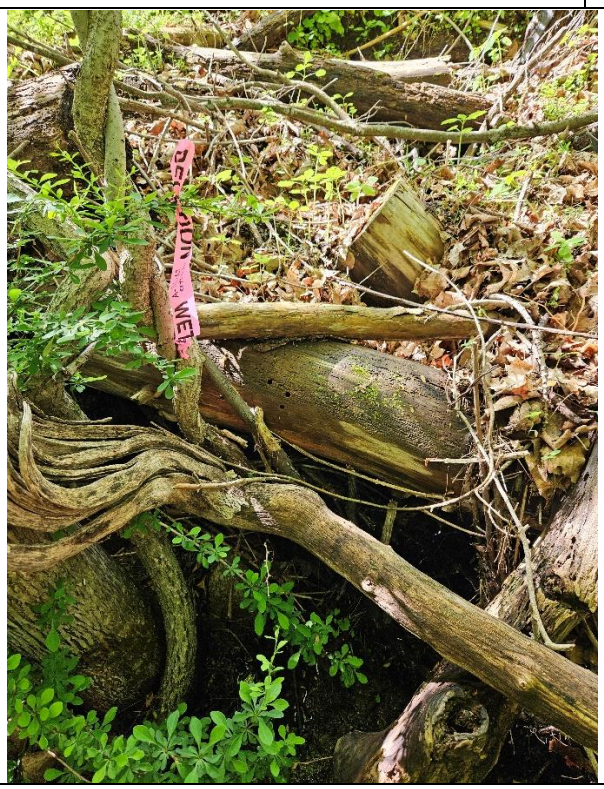


Photo No.	**Date:**
2	5/16/25

Direction Photo Taken:
East

Description:
Image of the A-Series intermittent watercourse, showing presence of flowing water following a storm event.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
3	9/27/24

Direction Photo Taken:
West

Description:
Photo of the A-Series watercourse in the overgrown, forested section of South Street Extension.

Photo No.	**Date:**
4	9/27/24

Direction Photo Taken:
East

Description:
Image taken along the A-Series watercourse, showing evidence of scour along the channel.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
5	9/27/24

Direction Photo Taken:
N/A

Description:
Photo showing evidence of scour with standing water observed within the A-Series.

Photo No.	**Date:**
6	5/16/25

Direction Photo Taken:
East

Description:
Photo taken at the top of the D-Series intermittent watercourse, taken near flag D15 near the top of the eastern gravel portion on the southern side of South Street Extension.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
7	5/16/25

Direction Photo Taken:
Southwest

Description:
Photo taken near flag D11, showing evidence of scour along the channel bank and flowing water. Observed hydrophytic vegetation included jewelweed (*Impatiens capensis*). A confluence was observed between the D-series watercourse and flow presumably originating on private property.

Photo No.	**Date:**
8	5/16/25

Direction Photo Taken:
West

Description:
Image of flag D6, showing flowing water and scour along the channel banks.

Photographic Log

Client Name: Town of Coventry	**Site Location:** South Main Extension - Coventry, CT	**Project No.** 05.0047144.01

Photo No.	**Date:**
9	5/16/25

Direction Photo Taken:
East

Description:
Image showing flag C10/D1, showing the end of the intermittent watercourse and the start of the C-Series Wetland. Here, the channel becomes less defined as the flow enters the wetland.

Photo No.	**Date:**
10	5/16/25

Direction Photo Taken:
South

Description:
Photo taken near wetland flag C7, looking towards the wetland, showing skunk cabbage (*Symplocarpus foetidus*) and sensitive fern (*Onoclea sensibilis*).

Photographic Log

Client Name: Client Name	**Site Location:** Site Location - Site City, State	**Project No.** Project No.

Photo No.	**Date:**
1	5/16/25

Direction Photo Taken:
East

Description:
Image showing flag C3 near the South Street Extension southern culvert.

Photo No.	**Date:**
2	5/16/25

Direction Photo Taken:
Southwest

Description:
Photo taken near flag C1, near the intersection of South Street Extension and Plains Road. The estimated portion of the Wetland Series C's boundary extends south of South Street Extension along the toe of slope.

Photographic Log

Client Name: Client Name	**Site Location:** Site Location - Site City, State	**Project No.** Project No.

Photo No.	**Date:**
1	5/16/25

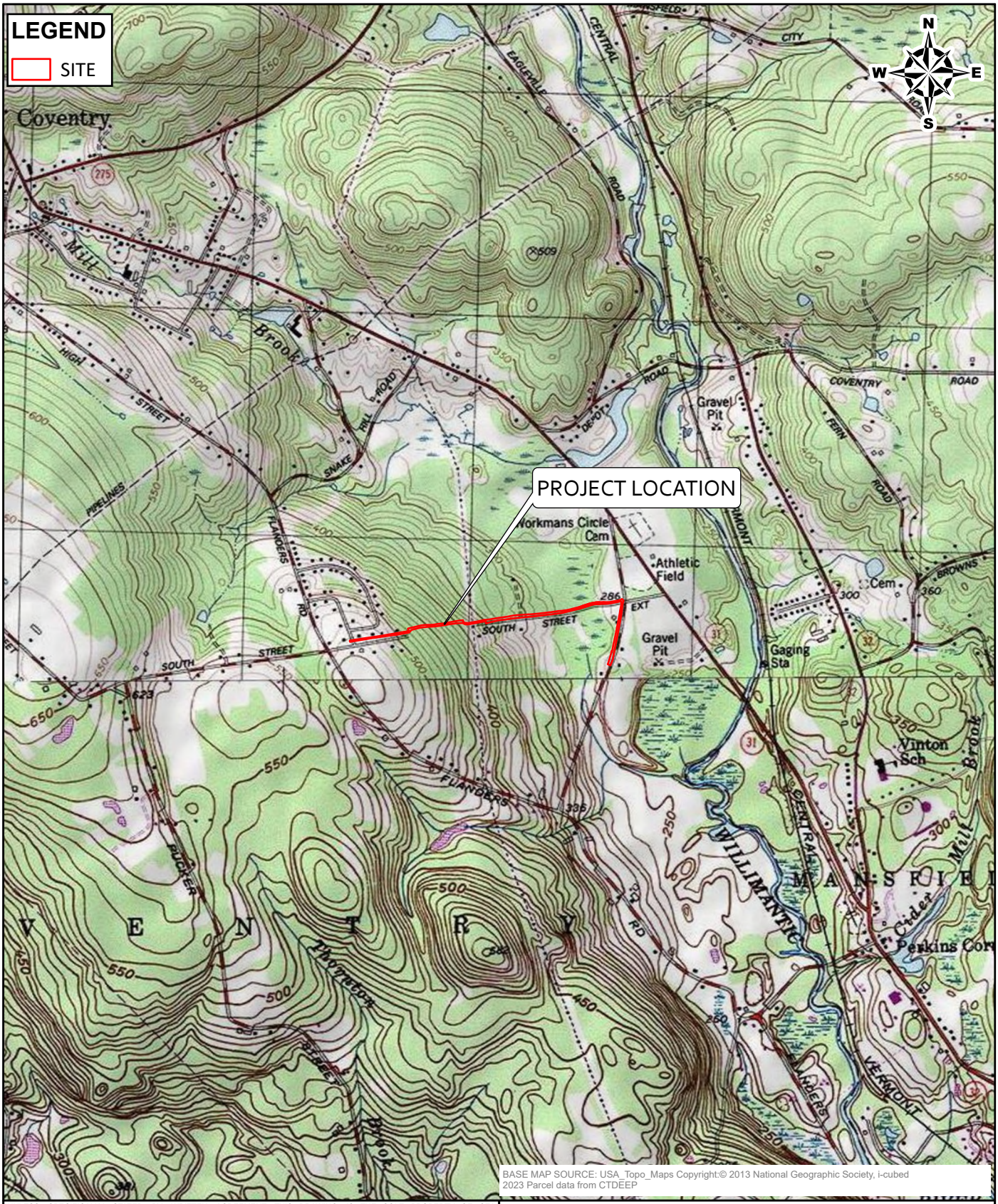
Direction Photo Taken:
West

Description:
Image taken near flag B7, looking toward B8, on the northern side of South Street Extension. Dominant hydrophytic vegetation included skunk cabbage, sensitive fern, and northern spicebush (*Lindera benzoin*). A depleted matrix and a depleted below dark layer were observed starting at 6 inches.

Photo No.	**Date:**
2	5/16/25

Direction Photo Taken:
North

Description:
Photo looking into Wetland Series B near flag B12, showing standing water, skunk cabbage, and tussock sedge (*Carex stricta*).



BASE MAP SOURCE: USA_Topo_Maps Copyright:© 2013 National Geographic Society, i-cubed
2023 Parcel data from CTDEEP

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0 1,000 2,000 4,000
SCALE IN FEET

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

LOCUS MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CT 06238

PROJ MGR:	STD	REVIEWED BY:	SLL	CHECKED BY:	RJC
DESIGNED BY:	CCO	DRAWN BY:	CCO	SCALE:	1 in 2,000 ft
DATE:	05/21/2025	PROJECT NO:	05.0047144.01	REVISION NO:	

FIGURE 1

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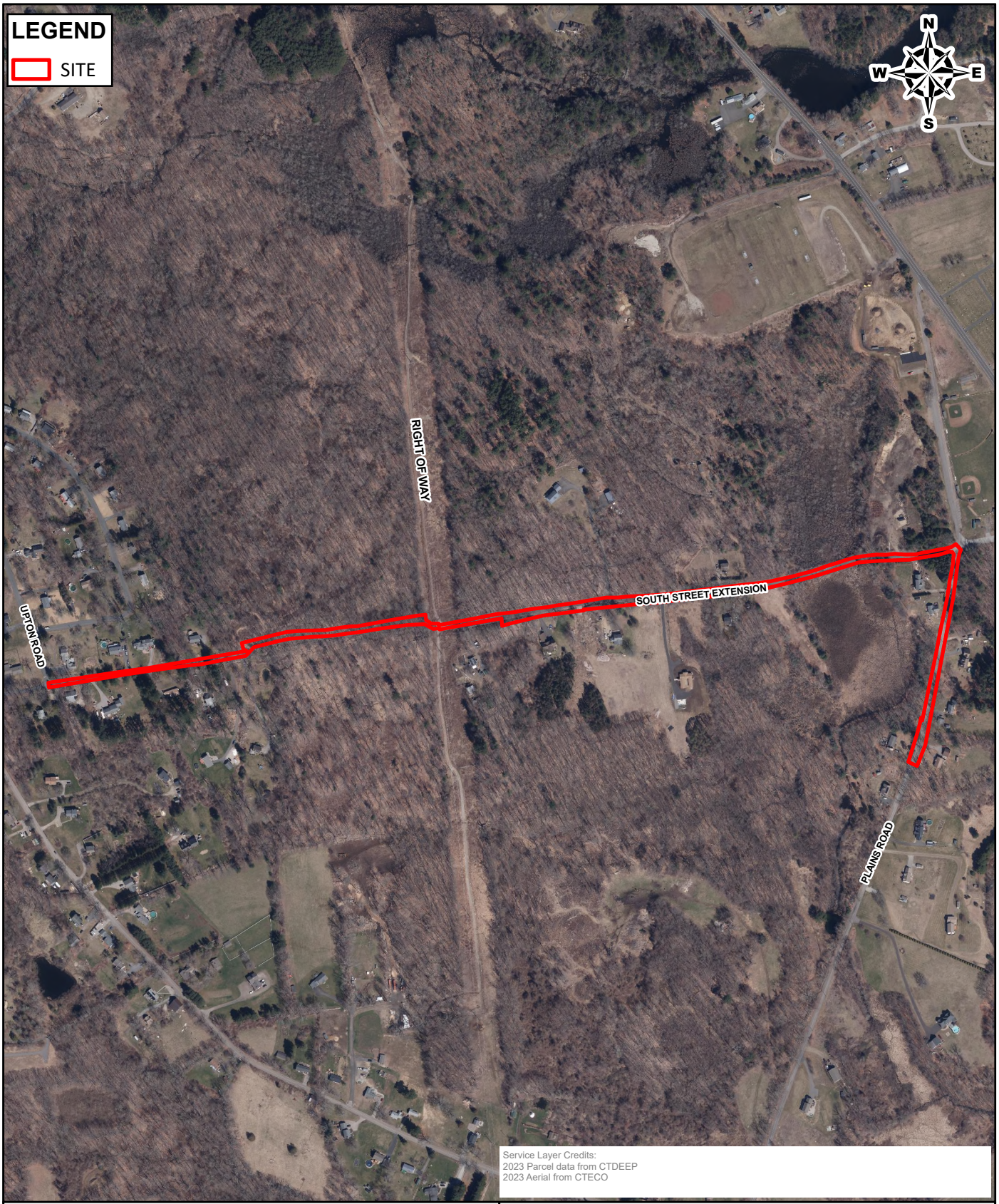

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0 300 600 1,200

SCALE IN FEET

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SOUTH STREET EXTENSION
COVENTRY, CT 06238

AERIAL MAP

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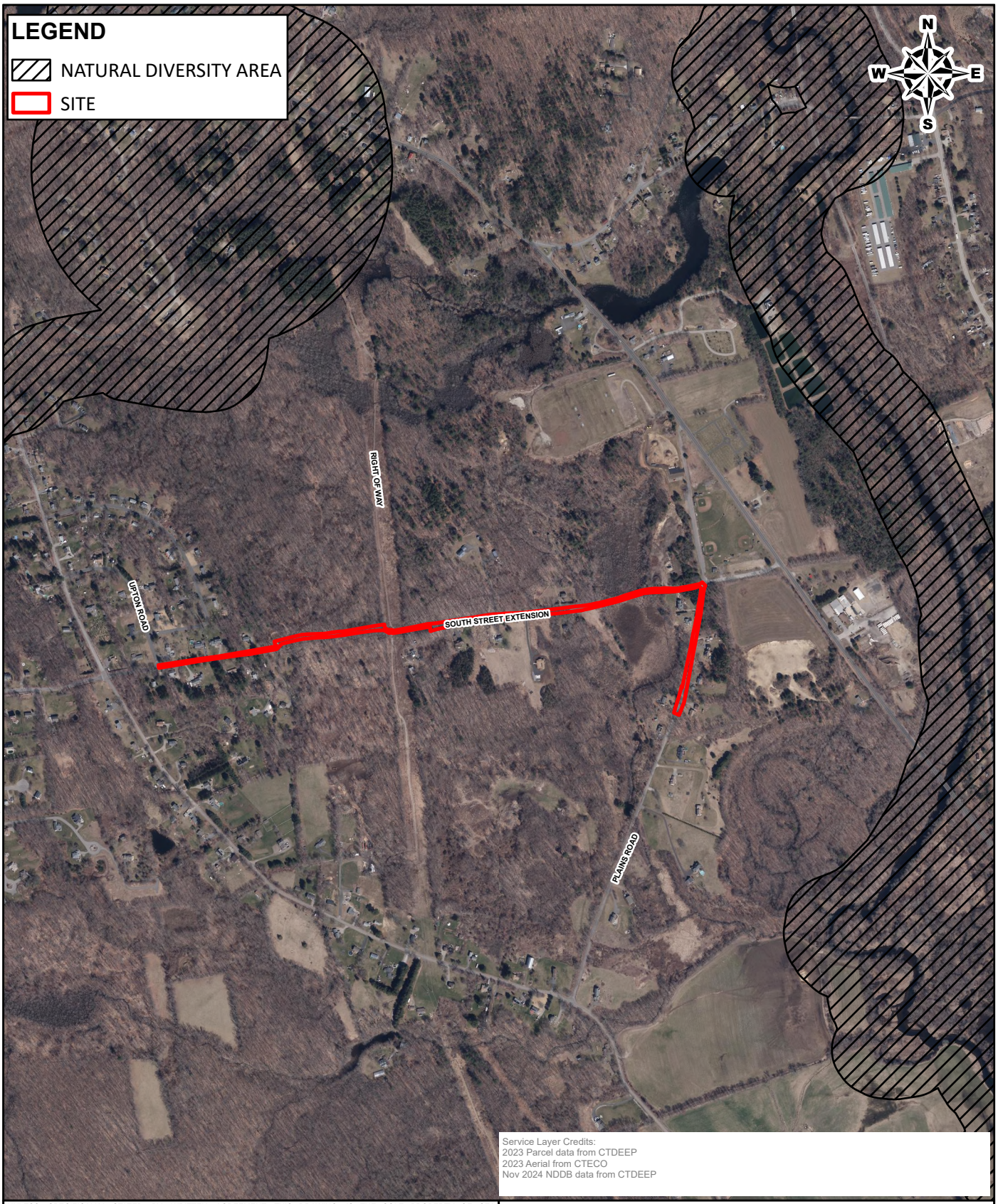
PROJ MGR:	STD	REVIEWED BY:	SLL	CHECKED BY:	RJC
DESIGNED BY:	CCO	DRAWN BY:	CCO	SCALE:	1 in 600 ft
DATE:	05/21/2025	PROJECT NO:	05.0047144.01	REVISION NO:	

FIGURE
2



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0 500 1,000 2,000

SCALE IN FEET

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

NATURAL DIVERSITY MAP

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COVENTRY, CT 06238

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DESIGNED BY:	CCO	DRAWN BY:	CCO	SCALE:	1 in 1,000 ft
DATE:	05/21/2025	PROJECT NO:	05.0047144.01	REVISION NO:	

FIGURE
3

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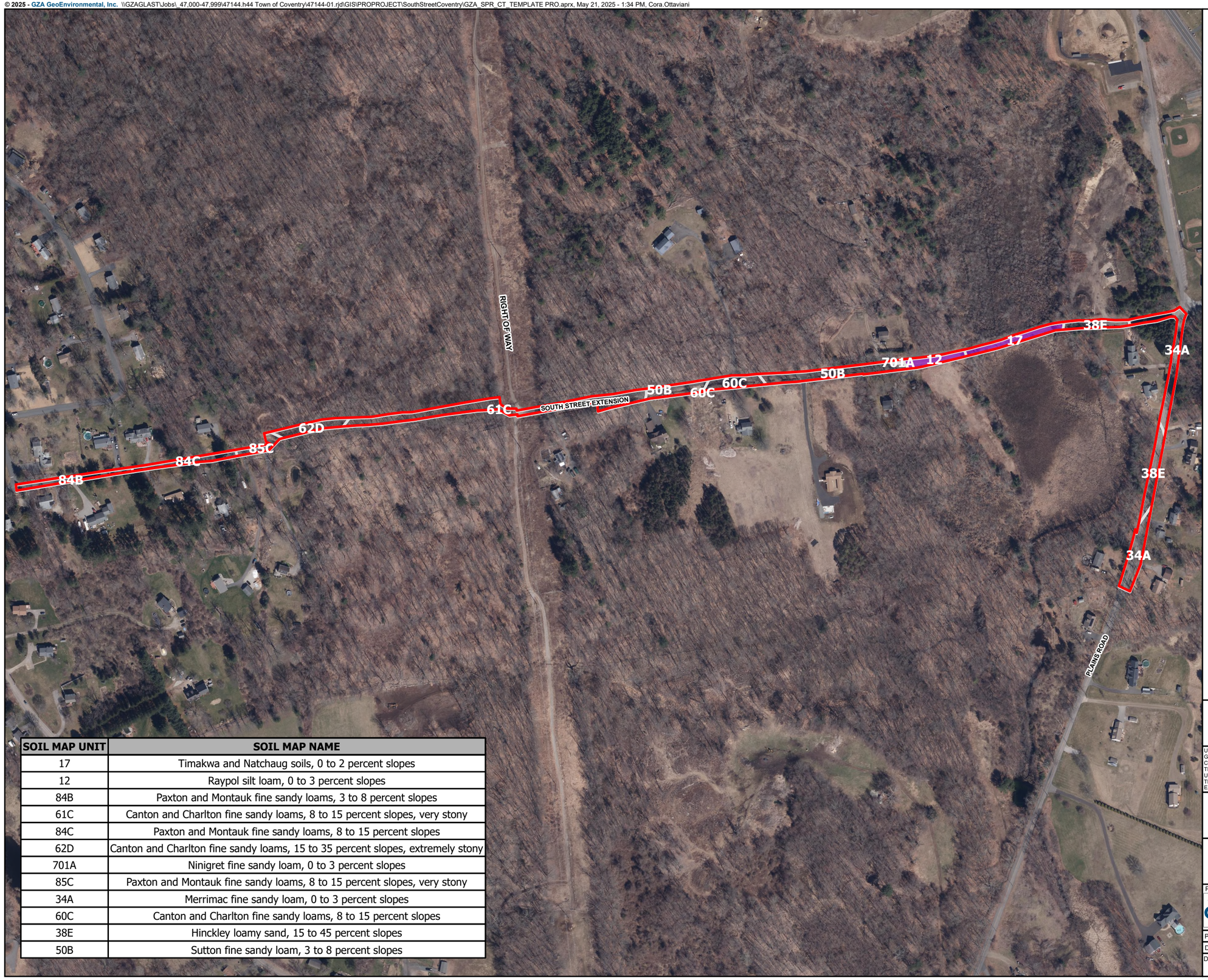

SOIL MAP UNIT	SOIL MAP NAME
17	Timakwa and Natchaug soils, 0 to 2 percent slopes
12	Raypol silt loam, 0 to 3 percent slopes
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony
701A	Ninigret fine sandy loam, 0 to 3 percent slopes
85C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes, very stony
34A	Merrimac fine sandy loam, 0 to 3 percent slopes
60C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes
38E	Hinckley loamy sand, 15 to 45 percent slopes
50B	Sutton fine sandy loam, 3 to 8 percent slopes

LEGEND

- HYDRIC SOILS
- NRCS SOILS
- SITE

N

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023
2. 2023 Parcel data from CTDEEP
3. 2023 Aerial from CTECO
4. Soils data from NRCS Web Soil Survey
5. 2023 Hydric soil data from CTDEEP

0 157.5 315 630

SCALE IN FEET

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COVENTRY, CT 06238

NRCS SOILS MAP

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COVENTRY, CT 06238

PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 315 ft	**4**
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

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LEGEND

- 75-FOOT UPLAND REVIEW AREA
- DELINEATED WETLAND BOUNDARY
- DELINEATED ORDINARY HIGH WATER
- ESTIMATED WETLAND BOUNDARY
- ESTIMATED WATERCOURSE (DELINEATED BUT WITH DECREASED GPS ACCURACY)

N

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023 2023 Aerial from CTECO

2. Wetland resources delineated Sept 2024 and May 2025 using the methodology from CT Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45) and USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012, Version 2.0)

3. The unnamed watercourse in the unpaved portion of South Street Extension was delineated in Sept 2024, but is labeled as "Estimated" in this figure due to decreased GPS accuracy from tree cover. The watercourse flags were surveyed by Benesch for the site plans.

0 157.5 315 630

SCALE IN FEET

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PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

REGULATED RESOURCES MAP

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PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE 5
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 315 ft	
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

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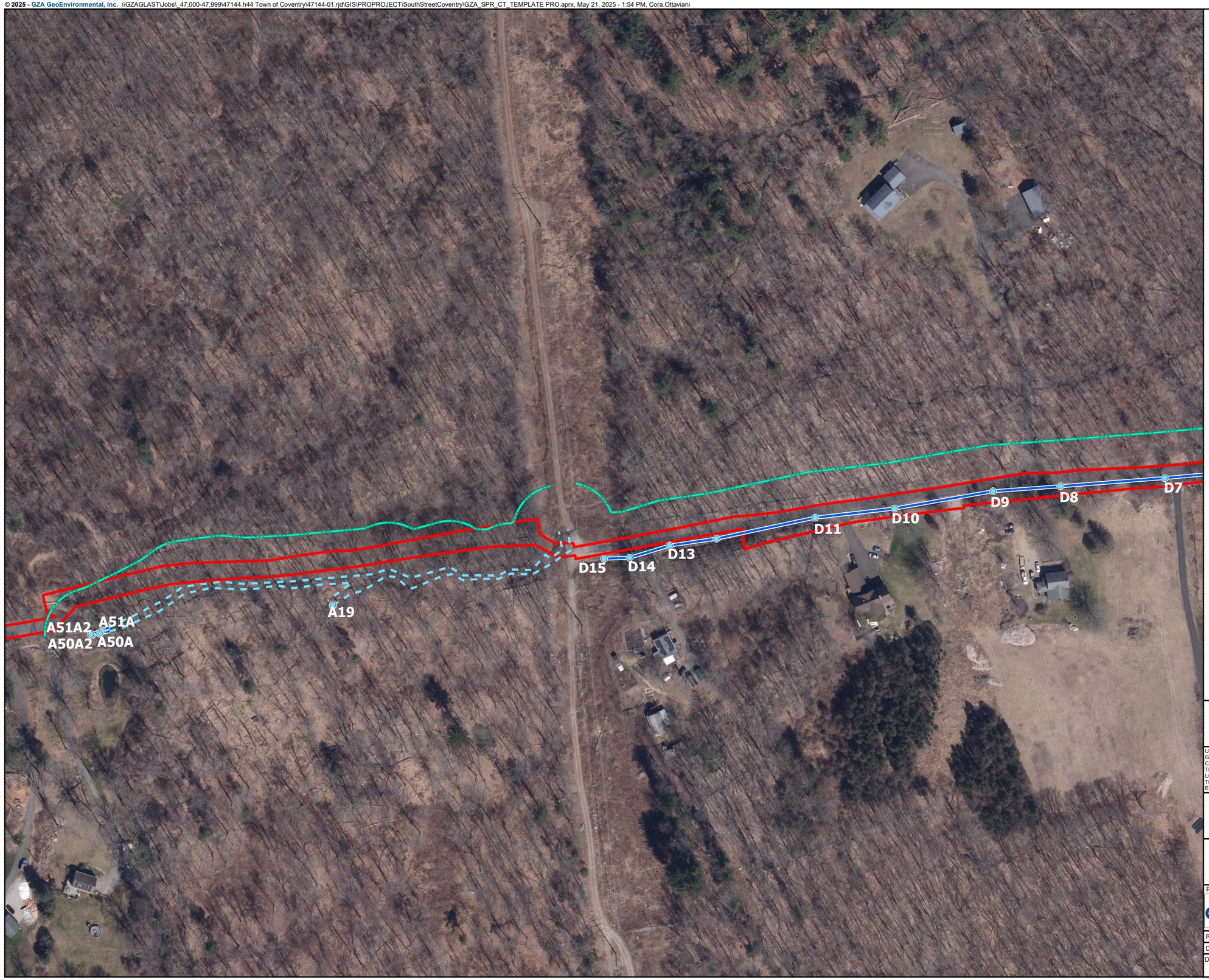

LEGEND

- ORDINARY HIGH WATER FLAGS
- 75-FOOT UPLAND REVIEW AREA
- DELINEATED ORDINARY HIGH WATER
- ESTIMATED WATERCOURSE (DELINEATED BUT WITH DECREASED GPS ACCURACY)

N

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023 2023 Aerial from CTECO

2. Wetland resources delineated Sept 2024 and May 2025 using the methodology from CT Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45) and USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012, Version 2.0)

3. The unnamed watercourse in the unpaved portion of South Street Extension was delineated in Sept 2024, but is labeled as "Estimated" in this figure due to decreased GPS accuracy from tree cover. The watercourse flags were surveyed by Benesch for the site plans.

0 75 150 300
SCALE IN FEET

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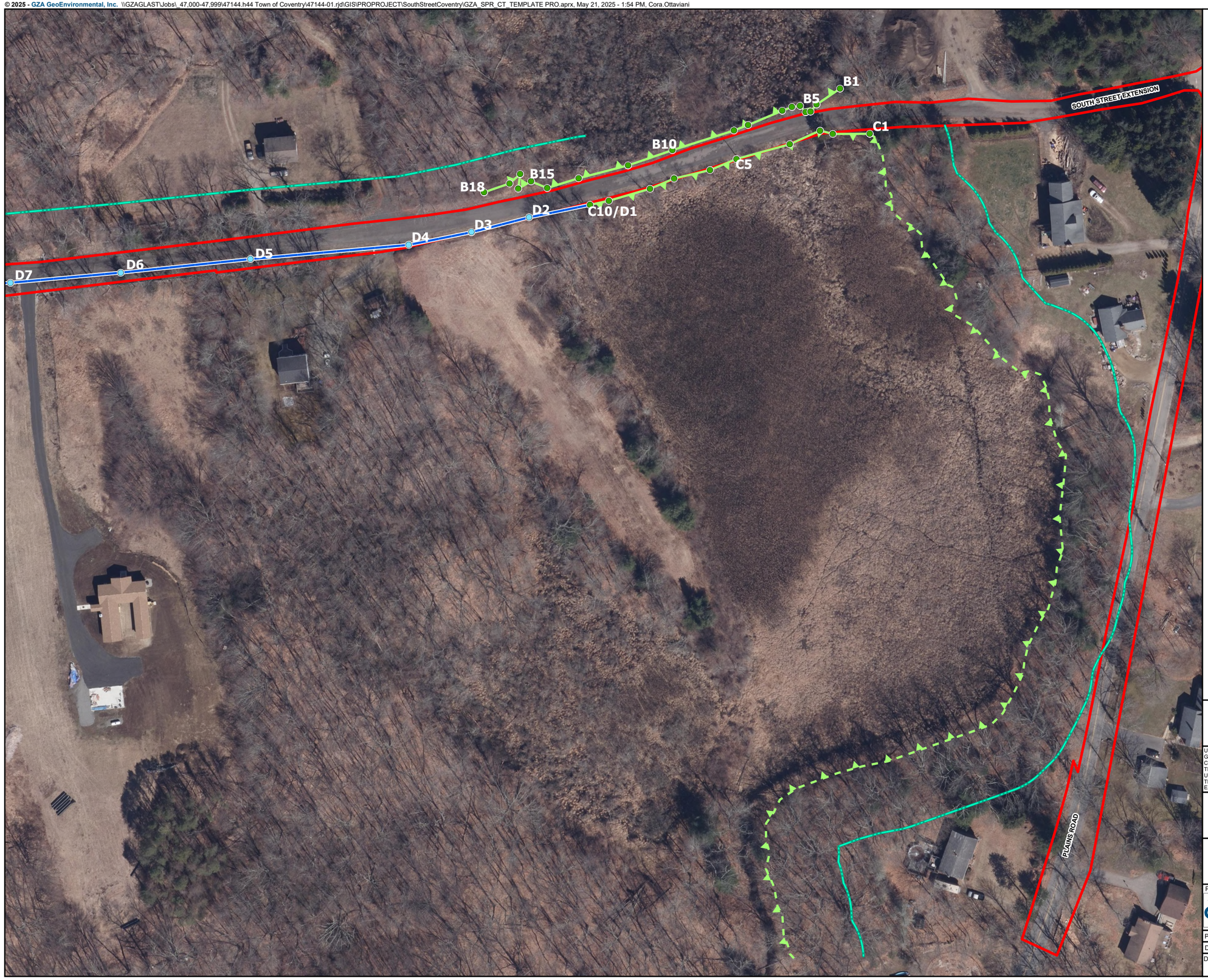
SOUTH STREET EXTENSION
COVENTRY, CT 06238

REGULATED RESOURCES MAP - WETLANDS A & D

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CT 06238	
PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE 5A
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 150 ft	
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

© 2025 - GZA GeoEnvironmental, Inc. \\GZAGLAST\Jobs_47,000-47,999\47144.h44 Town of Coventry\47144-01.rjd\GIS\PROPROJECT\SouthStreetCoventry\GZA_SPR_CT_TEMPLATE PRO.aprx, May 21, 2025 - 1:54 PM, Cora.Ottaviani



N

LEGEND

- WETLAND FLAGS
- ORDINARY HIGH WATER FLAGS
- 75-FOOT UPLAND REVIEW AREA
- DELINEATED WETLAND BOUNDARY
- DELINEATED ORDINARY HIGH WATER
- ESTIMATED WETLAND BOUNDARY
- SITE

NOTES:

1. BASE MAP SOURCE: images\Ortho_2023 2023 Aerial from CTECO

2. Wetland resources delineated Sept 2024 and May 2025 using the methodology from CT Inland Wetlands and Watercourses Act (Sections 22a-36 to 22a-45) and USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012, Version 2.0)

3. The unnamed watercourse in the unpaved portion of South Street Extension was delineated in Sept 2024, but is labeled as "Estimated" in this figure due to decreased GPS accuracy from tree cover. The watercourse flags were surveyed by Benesch for the site plans.

0 75 150 300

SCALE IN FEET

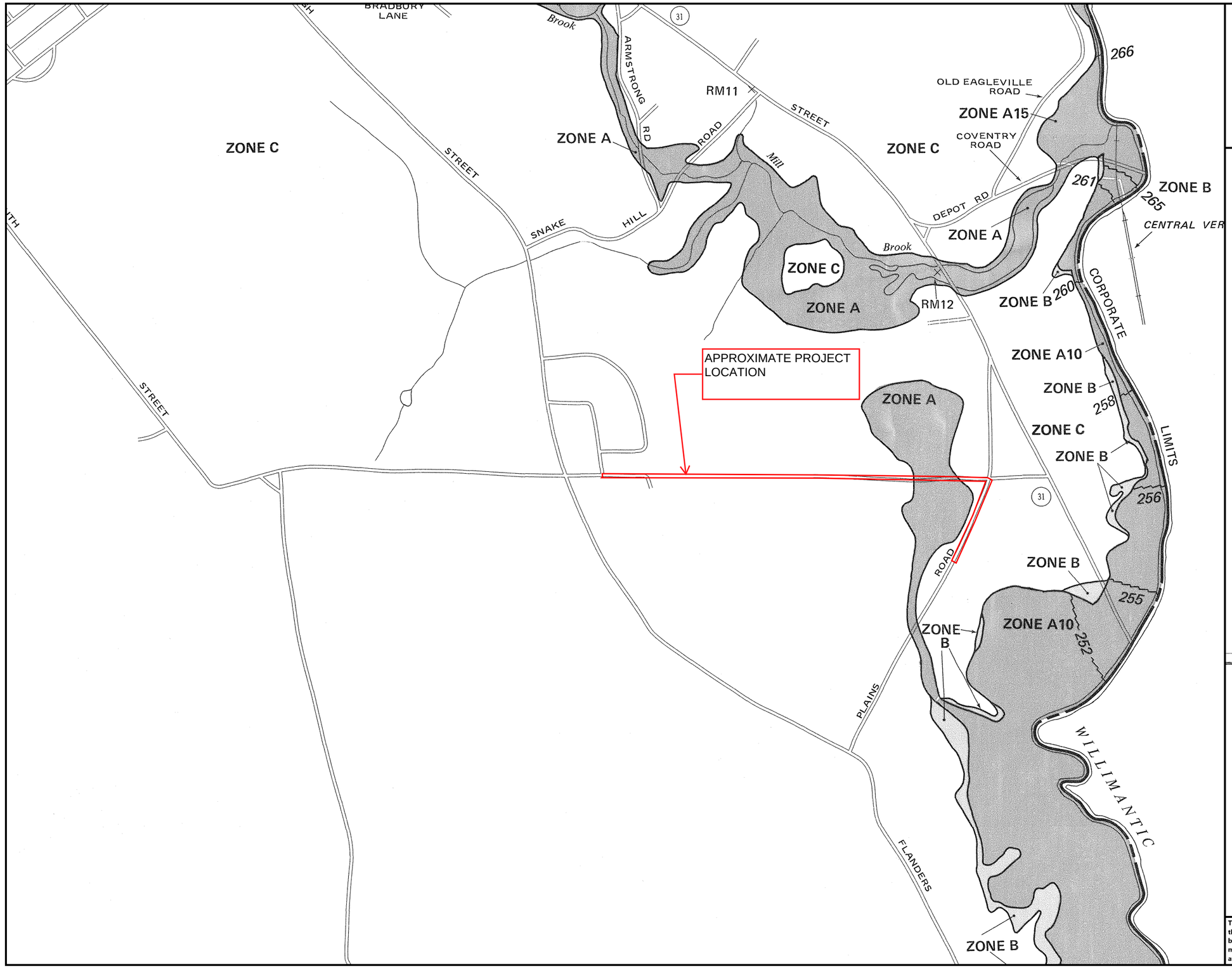
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PLAINS ROAD WATER MAIN EXT.
SOUTH STREET EXTENSION
COVENTRY, CT 06238

REGULATED RESOURCES MAP - WETLANDS B & C & D

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CT 06238	
PROJ MGR: STD	REVIEWED BY: SLL	CHECKED BY: RJC	FIGURE 5B
DESIGNED BY: CCO	DRAWN BY: CCO	SCALE: 1 in 100 ft	
DATE: 05/21/2025	PROJECT NO: 05.0047144.01	REVISION NO:	

FIGURE 6 - FEMA FIRM PANEL



APPROXIMATE SCALE
1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
COVENTRY, CONNECTICUT
TOLLAND COUNTY

PANEL 15 OF 15

COMMUNITY-PANEL NUMBER
090110 0015 C

EFFECTIVE DATE:
JUNE 4, 1980

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at https://msc.fema.gov.

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

STATEWIDE INLAND WETLANDS & WATERCOURSES ACTIVITY REPORTING FORM

Pursuant to section 22a-39(m) of the General Statutes of Connecticut and section 22a-39-14 of the Regulations of Connecticut State Agencies, inland wetlands agencies must complete the Statewide Inland Wetlands & Watercourses Activity Reporting Form for **each** action taken by such agency.

This form may be made part of a municipality's inland wetlands application package. If the municipality chooses to do this, it is recommended that a copy of the Town and Quadrangle Index of Connecticut and a copy of the municipality's subregional drainage basin map be included in the package.

Please remember, the inland wetlands agency is responsible for ensuring that the information provided is **accurate** and that it reflects the **final** action of the agency. Incomplete or incomprehensible forms will be mailed back to the agency. Instructions for completing the form are located on the following pages.

The inland wetlands agency shall mail completed forms for actions taken during a calendar month no later than the 15th day of the following month to the Department of Energy and Environmental Protection (DEEP). Do **not** mail this cover page or the instruction pages. Please mail **only** the **completed** reporting form to:

DEEP Land & Water Resources Division
Inland Wetlands Management Program
79 Elm Street, 3rd Floor
Hartford, CT 06106

Questions may be directed to the DEEP's Inland Wetlands Management Program at (860) 424-3019.

This page is intentionally left blank.

INSTRUCTIONS FOR COMPLETING

THE STATEWIDE INLAND WETLANDS & WATERCOURSES ACTIVITY REPORTING FORM

Use a separate form to report EACH action taken by the Agency. Complete the form as described below.
Do NOT submit a reporting form for withdrawn actions.

PART I: Must Be Completed By The Inland Wetlands Agency

1. Choose the year and month the Inland Wetlands Agency took the action being reported. If multiple actions were taken regarding the same project or activity then multiple forms need to be completed.

2. Choose ONE code letter to describe the final action or decision taken by the Inland Wetlands Agency. Do NOT submit a reporting form for withdrawn actions. Do NOT enter multiple code letters (for example, if the same project or activity had both a permit issued and enforcement action, submit two forms for the two separate actions).

   A = A Permit Granted by the Inland Wetlands Agency (not including map amendments, see code D below)
   B = Any Permit Denied by the Inland Wetlands Agency
   C = A Permit Renewed or Amended by the Inland Wetlands Agency
   D = A Map Amendment to the Official Town Wetlands Map - or -
   An Approved/Permitted Wetland or Watercourse Boundary Amendment to a Project Site Map
   E = An Enforcement Action: Permit Revocation, Citation, Notice of Violation, Order, Court Injunction, or Court Fines
   F = A Jurisdictional Ruling by the Inland Wetlands Agency (activities "permitted as of right" or activities considered non-regulated)
   G = An Agent Approval pursuant to CGS 22a-42a(c)(2)
   H = An Appeal of Agent Approval Pursuant to 22a-42a(c)(2)

3. Check "yes" if a public hearing was held in regards to the action taken; otherwise check "no".

4. Enter the name of the Inland Wetlands Agency official verifying that the information provided on this form is accurate and that it reflects the FINAL action of the agency.

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant - If Part II is completed by the applicant, the applicant MUST return the form to the Inland Wetlands Agency. The Inland Wetlands Agency MUST ensure that the information provided is accurate and that it reflects the FINAL action of the Agency.

5. Enter the name of the municipality for which the Inland Wetlands Agency has jurisdiction and in which the action/project/activity is occurring.
   Check "yes" if the action/project/activity crosses municipal boundaries and enter the name(s) of the other municipality(ies) where indicated. Check "no" if it does not cross municipal boundaries.

6. Enter the USGS Quad Map name or number (1 through 115) as found on the Connecticut Town and Quadrangle Index Map (the directory to all USGS Quad Maps) that contains the location of the action/project/activity. USGS Quad Map information is available at: https://portal.ct.gov/-/media/deep/gis/resources/IndexNamedQuadTownpdf.pdf
   ALSO enter the four-digit identification number of the corresponding Subregional Drainage Basin in which the action/project/activity is located. If located in more than one subregional drainage basin, enter the number of the basin in which the majority of the action/project/activity is located. Town subregional drainage basin maps can be found at UConn CLEAR's website: https://media.clear.uconn.edu/data/watershed_maps/index.htm (no roads depicted) or at CTECO: http://www.cteco.uconn.edu/map_catalog.asp (depicts roads, choose town and a natural drainage basin map).

7. Enter the name of the individual applying for, petitioning, or receiving the action.

8. Enter the name and address or location of the action/project/activity. Check if the action/project/activity is TEMPORARY or PERMANENT in nature. Also provide a brief DESCRIPTION of the action/project/activity. It is always best to provide as much information as possible (for example, don't state "forestry," provide details such as "20 acre forest harvest, permit required for stream crossing.")

9. Carefully review the list below and enter ONLY ONE code letter which best characterizes the action/project/activity. All state agency projects must code "N".

A = Residential Improvement by Homeowner
B = New Residential Development for Single Family Units
C = New Residential Development for Multi-Family / Condos
D = Commercial / Industrial Uses
E = Municipal Project
F = Utility Company Project
G = Agriculture, Forestry or Conservation
H = Wetland Restoration, Enhancement, Creation
I = Storm Water / Flood Control
J = Erosion / Sedimentation Control
K = Recreation / Boating / Navigation
L = Routine Maintenance
M = Map Amendment
N = State Agency Project
P = Other (this code includes the approval of concept, subdivision or similar plans with no on-the-ground work)

10. Enter between one and four code numbers to best characterize the action/project/activity being reported. Enter "NA" if this form is being completed for the action of map amendment. You MUST provide code 12 if the activity is located in an established upland review area. You MUST provide code 14 if the activity is located beyond the established upland review area or no established upland review area exists.

1 = Filling
2 = Excavation
3 = Land Clearing / Grubbing (no other activity)
4 = Stream Channelization
5 = Stream Stabilization (includes lakeshore stabilization)
6 = Stream Clearance (removal of debris only)
7 = Culverting (not for roadways)
8 = Underground Utilities Only (no other activities)
9 = Roadway / Driveway Construction (including related culverts)
10 = Drainage Improvements
11 = Pond, Lake Dredging / Dam Construction
12 = Activity in an Established Upland Review Area
14 = Activity in Upland

Examples: Jurisdictional ruling allowing construction of a parking lot in an upland where the municipality does not have an established upland review area must use code 14, other possible codes are 2 and 10. Permitted construction of a free standing garage (residential improvement by homeowner) partially in an established upland review area with the remainder in the upland must use code 12 and 14, other possible codes are 1 and 2.

11. Leave blank for TEMPORARY alterations but please indicate action/project/activity is temporary under question #8 on the form. For PERMANENT alterations, enter in acres the area of wetland soils or watercourses altered. Include areas that are permanently altered, or are proposed to be, for all agency permits, denials, amendments, renewals, jurisdictional rulings, and enforcement actions. For those activities that involve filling or dredging of lakes, ponds or similar open water bodies enter the acres filled or dredged under "open water body." For those activities that involve directly altering a linear reach of a brook, river, lakeshore or similar linear watercourse, enter the total linear feet altered under "stream." Remember, these figures represent only the acreage altered, not the total acreage of wetlands or watercourses on the site. You MUST provide all information in ACRES (or linear feet as indicated) including those areas less than one acre. To convert from square feet to acres, divide square feet by the number 43,560. If this report is being completed for an agency jurisdictional ruling and detailed information is not available, provide an estimate. Enter zero if there is no alteration.

12. Enter in acres the area of upland altered as a result of an ACTIVITY REGULATED BY the inland wetlands agency, or as a result of an AGENT APPROVAL pursuant to CGS section 22a-42a(c)(2). Leave blank for TEMPORARY alterations but please indicate action/project/activity is temporary under question #8 on the form. Include areas that are permanently altered, or proposed to be permanently altered, for all agent approvals, agency permits, denials, amendments, renewals, jurisdictional rulings, and enforcement actions. You MUST provide all information in ACRES including those areas less than one acre. See directions above (#11) for conversion factor. If this report is being completed for an agent approval or an agency jurisdictional ruling and detailed information is not available, provide an estimate. Enter zero if there is no alteration.

13. Enter the acres that are, or are proposed to be, restored, enhanced or created for all agency permits, denials, amendments, renewals, jurisdictional rulings and enforcement actions. NOTE restored or enhanced applies to previously existing wetlands or watercourses. Created applies to a non-wetland or non-watercourse area which is converted into wetlands or watercourses. For created - question #10 must provide 12 and/or 14 as an answer, and question #12 must also be answered. You MUST provide all information in ACRES including those areas less than one acre. See directions above (#11) for conversion factor. Enter zero if there is no restoration, enhancement or creation.

PART III: To Be Completed By The DEEP - Please leave this area blank. Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106
Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
   (print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Coventry
   does this project cross municipal boundaries (check one)? yes ☐ no ☒
   if yes, list the other town(s) in which the activity is occurring (print name(s)): _____, _____
6. LOCATION (see instructions for information): USGS quad name: COVENTRY or number: 40
   subregional drainage basin number: 3105
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Town of Coventry
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): South Street Extension and Plains Road right of ways
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description:
   Install a six (6) inch water main extending from the existing system on Upton Drive, east along South Street Extension and south down to 225 Plains Road.
9. ACTIVITY *PURPOSE* CODE (see instructions - one code only): F
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): 9, 12, _____, _____
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
    wetlands: 0 acres open water body: 0 acres stream: 0.005 acres linear feet
12. UPLAND AREA ALTERED (must provide acres): 0.57 permanent/0.24 temporary acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

PART III: To Be Completed By The DEEP

DATE RECEIVED: DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-1

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): mostly flat Local relief (concave, convex, none): none Slope %: 1

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.75282 Long: -72.27590 Datum: WGS84

Soil Map Unit Name: Raypol silt loam, 0 to 3 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in. Plot completed near B17 and B18

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-1

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Berberis thunbergii*	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	10 =Total Cover		
Herb Stratum (Plot size: 5ft)			
1. *Solidago rugosa*	20	Yes	FAC
2. *Onoclea sensibilis*	5	No	FACW
3. *Berberis thunbergii*	5	No	FACU
4. *Artemisia vulgaris*	5	No	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35 =Total Cover		
Woody Vine Stratum (Plot size: 30ft)			
1. *Celastrus orbiculatus*	10	Yes	FACU
2. *Vitis aestivalis*	10	Yes	FACU
3.			
4.			
	20 =Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	20	x 3 =	60
FACU species	35	x 4 =	140
UPL species	5	x 5 =	25
Column Totals:	65 (A)		235 (B)

Prevalence Index = B/A = 3.62

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-2	2.5YR 3/2	100					Loamy/Clayey	
2-19	7.5YR 3/4	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Soil texture observed was sandy loam

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-2

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): mostly flat Local relief (concave, convex, none): concave Slope %: 1

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.75294 Long: -72.27573 Datum: WGS84

Soil Map Unit Name: Raypol silt loam, 0 to 3 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in. Plot completed near flags B17 and B18

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): ____
Water Table Present?	Yes ____	No ____	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-2

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. *Acer rubrum*	90	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	90	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Carya ovata*	50	Yes	FACU
2. *Lindera benzoin*	50	Yes	FACW
3.			
4.			
5.			
6.			
7.			
	100	=Total Cover	
Herb Stratum (Plot size: 5ft)			
1. *Onoclea sensibilis*	70	Yes	FACW
2. *Symplocarpus foetidus*	50	Yes	OBL
3. *Toxicodendron radicans*	30	No	FAC
4. *Rosa multiflora*	10	No	FACU
5. *Maianthemum canadense*	5	No	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	165	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	50	x 1 =	50
FACW species	120	x 2 =	240
FAC species	120	x 3 =	360
FACU species	65	x 4 =	260
UPL species	0	x 5 =	0
Column Totals:	355 (A)		910 (B)

Prevalence Index = B/A = 2.56

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-6	2.5YR 2.5/1	100			RM		Loamy/Clayey	
6-20	10YR 4/1	60	7.5YR 5/6	30	C	M	Loamy/Clayey	
			7.5YR 5/8	10	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- _X_ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- _X_ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _X_ **No** ___

Remarks:

Texture observed in field was sandy clay loam

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-3

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): top of hill Local relief (concave, convex, none): convex Slope %: 2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.7530 Long: -72.27437 Datum: WGS84

Soil Map Unit Name: Hinckley loamy sand, 15 to 45 percent slopes NWI classification: PSS1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in; Plot completed near flags C1 and C2

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-3

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. *Pinus strobus*	40	Yes	FACU
3. *Quercus rubra*	30	Yes	FACU
4. *Quercus velutina*	30	Yes	UPL
5.			
6.			
7.			
	100	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Lindera benzoin*	10	Yes	FACW
2. *Acer rubrum*	10	Yes	FAC
3. *Elaeagus umbellata*	10	Yes	UPL
4.			
5.			
6.			
7.			
	30	=Total Cover	
Herb Stratum (Plot size: 5ft)			
1. *Elaeagus umbellata*	20	Yes	UPL
2. *Parthenocissus quinquefolia*	10	Yes	FACU
3. *Chimaphila maculata*	5	No	UPL
4. *Acer rubrum*	2	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	37	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	12	x 3 =	36
FACU species	80	x 4 =	320
UPL species	65	x 5 =	325
Column Totals:	167 (A)		701 (B)

Prevalence Index = B/A = 4.20

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-2	7.5YR 2.5/1	100					Loamy/Clayey	
2-12	10YR 3/6	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 12

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Texture observed was sandy loam

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Plains Road Water Main Ext. South Street Extension Project City/County: Coventry/Tolland Sampling Date: 5/16/2025

Applicant/Owner: Town of Coventry State: CT Sampling Point: SP-4

Investigator(s): GZA GeoEnvironmental, Inc.: S. Lecco, C. Ottaviani Section, Township, Range:

Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): concave Slope %: 2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.7530 Long: -72.27437 Datum: WGS84

Soil Map Unit Name: Hinckley loamy sand, 15 to 45 percent slopes NWI classification: PSS1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Temperature in the 60s (F), high humidity, Precipitation on May 15th (past 24 hours from 11:51:00) was 0.12 in; Plot completed near flags C1 and C2

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): ____
Water Table Present?	Yes X	No ____	Depth (inches): 15
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP-4

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. *Acer rubrum*	80	Yes	FAC
3. *Carpinus caroliniana*	50	Yes	FAC
4.			
5.			
6.			
7.			
	130	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15ft)			
1. *Alnus incana*	30	Yes	FACW
2. *Quercus alba*	5	No	FACU
3.			
4.			
5.			
6.			
7.			
	35	=Total Cover	
Herb Stratum (Plot size: 5ft)			
1. *Phragmites australis*	50	Yes	FACW
2. *Symplocarpus foetidus*	40	Yes	OBL
3. *Toxicodendron radicans*	30	Yes	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	120	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	80	x 2 =	160
FAC species	160	x 3 =	480
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	285 (A)		700 (B)

Prevalence Index = B/A = 2.46

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point SP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
1-4	5YR 2.5/1	60	5YR 3/3	40	C	M	Loamy/Clayey	
4-9	10YR 3/2	60	10YR 4/4	40	C	M	Loamy/Clayey	
9-14	10YR 3/3	90	2.5Y 2.5/1	5	RM	M	Loamy/Clayey	
			7.5YR 4/6	5	C	PL		
14-20	10YR 2/1	50	7.5YR 3/2	50	RM	M	Loamy/Clayey	
20-24	10YR 2/1	60	10YR 5/1	40	D	M	Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

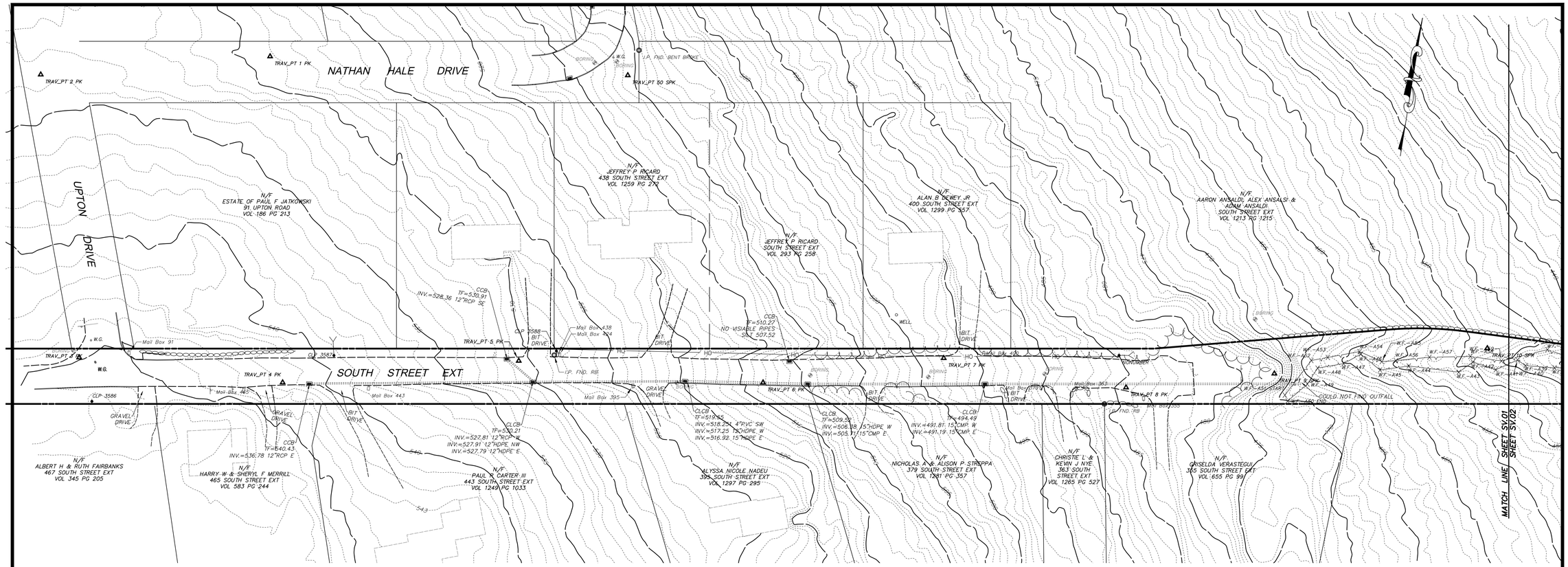
Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sand texture observed was sandy clay loam



LEGEND

UTILITY SERVICES (UNDERGROUND OR OVERHEAD)

E	ELECTRIC SERVICE
G	GAS PIPES
SAN	SANITARY SEWER PIPES
	STORM WATER PIPES (LESS THAN 12")
	STORM WATER PIPES (12" OR LARGER)
STM	STEAM PIPES (SUPPLY & COND.)
T	TELEPHONE SERVICE
W	WATER PIPES
COM	COMMUNICATION/FIBER OPTIC SERVICE
FP	FIRE PROTECTION PIPES
UG	UNKNOWN UTILITY SERVICE
OH	OVERHEAD WIRES

PROPERTY/BOUNDARY LINES

- PROPERTY/BOUNDARY LINES (CLASS A-2)
- PROPERTY/BOUNDARY LINES (CLASS D)
- EASEMENT LINES

FEATURE LINES

- CURBED ROADWAY
- EDGE OF PAVED ROAD/DRIVE
- BUILDING ROOFLINE (AERIAL PHOTOS)
- RETAINING WALL
- STOCKADE FENCE
- CHAIN LINK/WIRE FENCE
- TREE/VEGATATION LINE
- STONE WALL
- SURFACE WATER (WATERCOURSE)
- WETLANDS LIMIT
- EDGE OF LANDSCAPING
- INTERMEDIATE CONTOUR
- INDEX CONTOUR

SYMBOL LEGEND

- CATCH BASIN
- ROUND DRAIN
- SQUARE DRAIN
- STORM DRAIN MANHOLE
- ELECTRIC MANHOLE
- SANITARY MANHOLE
- STEAM MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MANHOLE (OF UNKNOWN TYPE)
- HAND HOLE (SQ. / REC.)
- W.G. WATER VALVE
- G.G. GAS VALVE
- HYDRANT
- COMBO STANDPIPE
- GUY WIRE
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)
- BORING (AS DRILLED)
- BORING (AS STAKED)
- 427.3 SPOT ELEVATION
- WETLANDS FLAG
- PROPERTY MONUMENT
- UTILITY MONUMENT (SET AS 2' OFFSET)
- IRON PIPE OR REBAR FOUND
- IRRIGATION CONTROL BOX
- EMERGENCY PHONE
- TRAFFIC CONTROLLER CABINET
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- STREET LIGHT
- LIGHT POST
- BOLLARD LIGHT
- BOULDER / ROCK
- CONIFER SHRUB
- DECIDUOUS SHRUB
- DECIDUOUS TREE (SAPLING)
- DECIDUOUS TREE
- CONIFER TREE

ABBREVIATIONS

A/C	AIR CONDITIONER
AT&T	AMERICAN TELEPHONE & TELEGRAPH COMPANY
BIT.	BITUMINOUS
BLK.	BLACK
CB	CATCH BASIN
COM	COMMUNICATION
CON.	CONIFER
CONC.	CONCRETE
CNG	CONNECTICUT NATURAL GAS
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CL&P	CONNECTICUT LIGHT & POWER COMPANY
CP	CONTROL POINT
DEC.	DECIDUOUS
DMH	DRAINAGE MANHOLE
E	EAST OR ELECTRIC
EL.	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
F.L.	FLOW LINE
FND.	FOUND
GRAN.	GRANITE
GSTC	GRANITE STONE CURB
HELCO	HARTFORD ELECTRIC COMPANY
HYD.	HYDRANT
H.H.	HAND HOLE
L.P.	LIGHT POLE
MH	MANHOLE
M	METER
M.W.	MONITOR WELL
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NE	NORTHEAST
N/F	NOW OR FORMERLY
NW	NORTHWEST
PVC	POLYVINYL CHLORIDE
P.I.V.	POST INDICATOR VALVE
RET.	RETAINING
RCP	REINFORCED CONCRETE PIPE
R.L.	RAIN LEADER
S	SOUTH OR SUPPLY
SE	SOUTHEAST
SW	SOUTHWEST
SAN.	SANITARY
SMH	SANITARY MANHOLE
SNET	SOUTHERN NEW ENGLAND TELEPHONE
SQ.	SQUARE
STM	STEAM
TMH	TELEPHONE MANHOLE
TEL.	TELEPHONE
T.F.	TOP OF FRAME
UNK.	UNKNOWN
W	WATER OR WEST
W.G.	WATER GATE

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: STB

REVISIONS			
No.	DATE	DESCRIPTION	
1	12/1/2025	locate wetlands	

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" =40'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE
40 20 0 40

benesch

Prepared By:

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

PROJ. No.: 70977
DATE: AUG 2024

SV.01

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

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TWISTVIEW:	
VIEWNAME:	
LAYER MANAGER NAME:	
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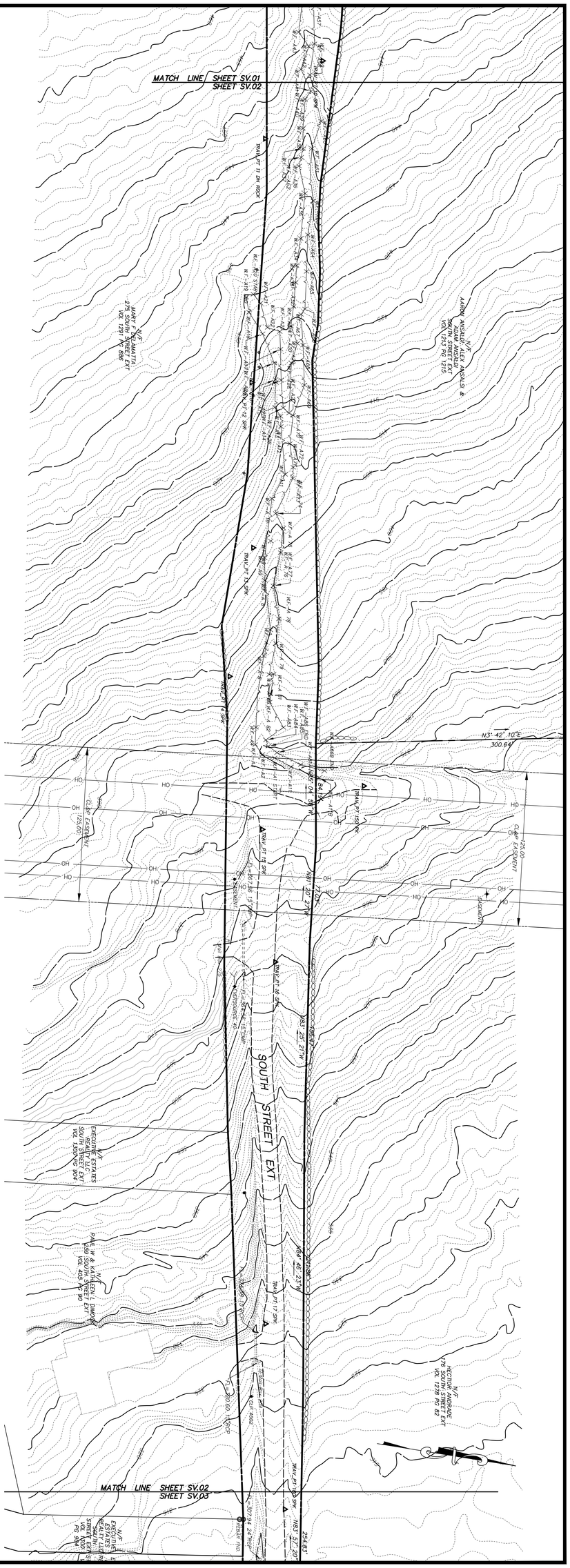

SV.02

PROJ. No.: 70977
DATE: AUG 2024

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

Prepared By:

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VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS			
No.	DATE	DESCRIPTION	SURVEY BOOK: 06-
1	1/21/2025	locate wetlands	SURVEYOR: PC
			DRAWN: DAC
			CHECKED: RS
			APPROVED: WW

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

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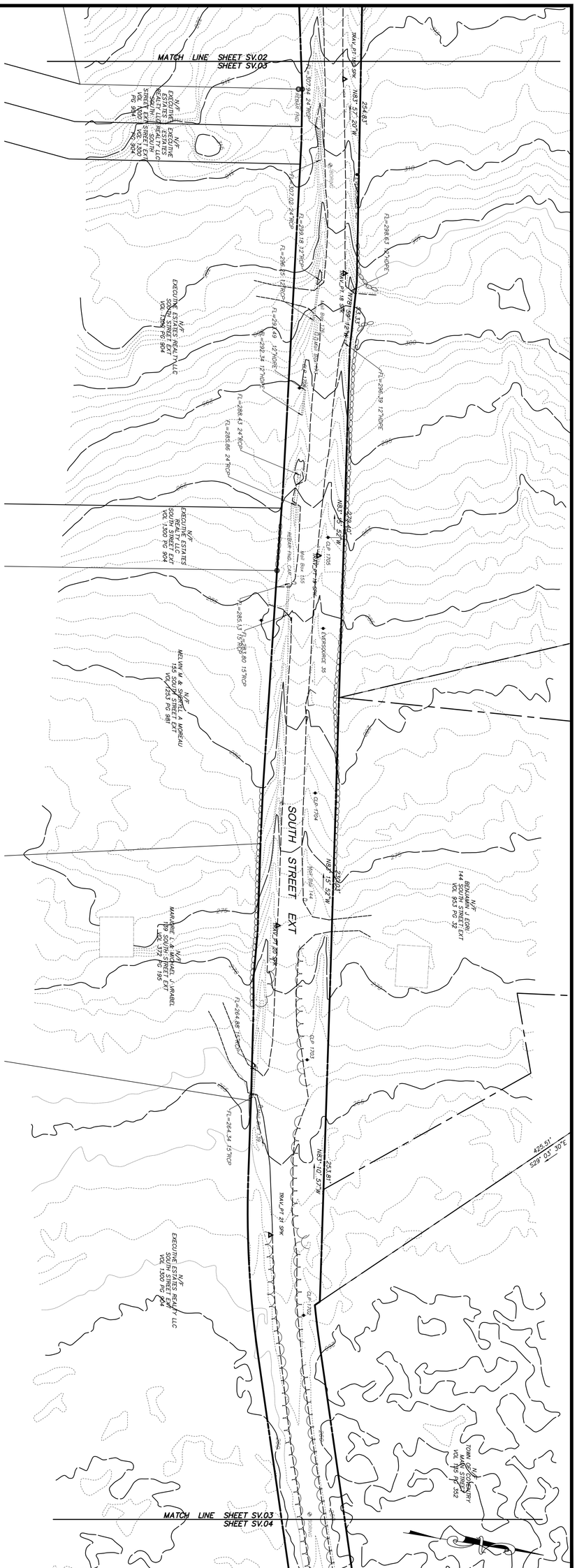
VIEWNAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



SV.03

PROJ. No.: 70977
DATE: AUG 2024

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

Prepared By:

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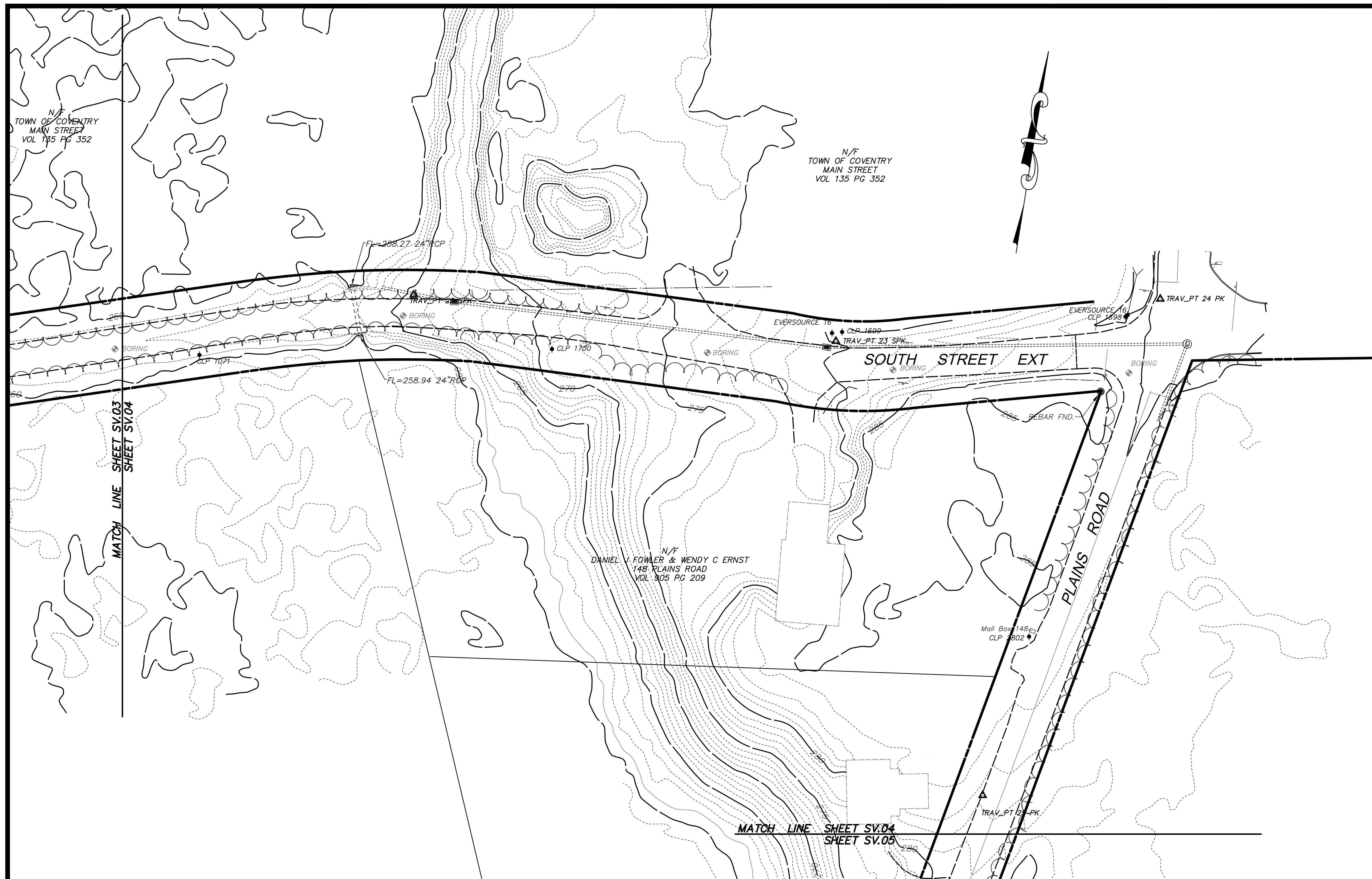
SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS			
No.	DATE	DESCRIPTION	SURVEY BOOK: 06-
			SURVEYOR: PC
			DRAWN: DAC
			CHECKED: RS
			APPROVED: WW

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM



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TWISTVIEW:
VIEWNAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

REVISIONS

No.	DATE	DESCRIPTION

SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

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RIGHT OF WAY & TOPOGRAPHIC SURVEY

PREPARED FOR

THE TOWN OF COVENTRY

(WATER LINE EXTENSION)

SOUTH STREET EXTENSION & PLAINS ROAD

COVENTRY CONNECTICUT

PROJ. No.: 70977

DATE: AUG 2024

SV.04

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

N/F
MICHAEL BRETON
PLAINS ROAD
VOL 1262 PG 1177

N/F
THOMAS L CALABRO
& CHRISTINE C COOPER
232 PLAINS ROAD
VOL 1237 PG 1166

N/F
KARL W & JANICE SENTIVANY
240 PLAINS ROAD
VOL 611 PG 302

N/F
TIMOTHY J & LESLIE HEBERT
150 PLAINS ROAD
VOL 1246 PG 115

MATCH LINE SHEET SV.04

SHEET SV.06

PLAINS ROAD

Mail Box 273

Mail Box 261

CLP 3620

Mail Box 230

REBAR FND.

CLP 3619

Mail Box 225

TRAV_PT 28 PK

BORING

CLP 3618

REBAR FND.

Mail Box 203

BORING

TRAV_PT 26 PK

CLP 3617

REBAR FND.

Mail Box 143

BORING

TRAV_PT 25 PK

36" OAK

FL=276.17 18"RCP

FL=274.54 18"RCP

CLP 4574

REBAR FND.

TRAV_PT 29 PK

REBAR FND.

WELL

N/F
JAMES MAULUCCI
273 PLAINS ROAD
VOL 1262 PG 466

N/F
RICHARD C & ROBERTA F SANBORN
225 PLAINS ROAD
VOL 152 PG 535

N/F
RYAN Y WALKER
261 PLAINS ROAD
VOL 1286 PG 1039

N/F
BETSY J FITZGERALD TRUSTEE
203 PLAINS ROAD
VOL 1294 PG 58

N/F
SCOTT ANDREW ZIMA & KATHLEEN OCONNELL ZIMA
143 PLAINS ROAD
VOL 490 PG 83

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
PLAINS ROAD
COVENTRY CONNECTICUT

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PROJ. No.: 70977
DATE: AUG 2024

SV.05

File Location\Name - Y:\Glastonbury\70900s\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:34 AM

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TWISTVIEW:
VIEW NAME:
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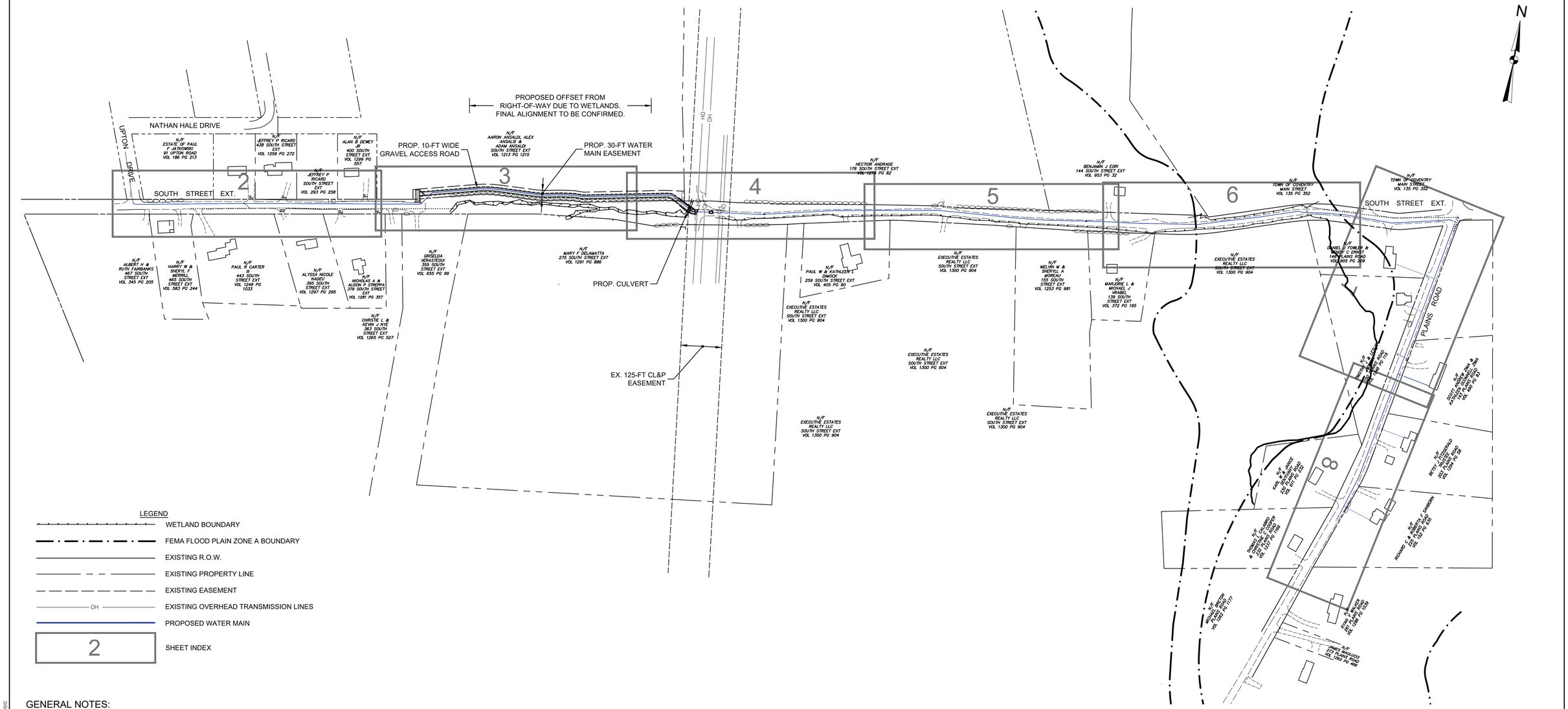
PLOT TABLE: .STB



LEGEND

- WETLAND BOUNDARY
- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- OH — EXISTING OVERHEAD TRANSMISSION LINES
- PROPOSED WATER MAIN
- 2 — SHEET INDEX

GENERAL NOTES:

1. LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
2. WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONCIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING GLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
4. FIELD LOK GASKETS SHALL BE PLACED A MINIMUM 3 FULL PIPE LENGTHS FROM THE END OF ALL DEAD END LINES AND BLOWOFFS. AT ALL CHANGES OF DIRECTION, FIELD LOK GASKETS SHALL BE INSTALLED A MINIMUM OF 2 FULL PIPE LENGTHS FROM A FITTING OR AT THE DISCRETION OF THE ENGINEER/INSPECTOR.
5. ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.
6. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN THE FIELD. EXISTING SERVICES TO BE TIED OVER TO NEW MAIN WHERE SHOWN.
7. WATER MAIN SHOWN AS FIELD LOCATED PER CWC PAINTMARKS. ALL OTHER UNDERGROUND UTILITIES TAKEN FROM MAPPING PROVIDED BY THE UTILITY COMPANIES SERVING THIS REGION. ANY PAINT MARK LINETYPE IN DRAWING HAS BE FIELD LOCATED BASE ON PAINTMARKS BY "CALL BEFORE YOU DIG".
8. THE APPROXIMATE PROPERTY LINES WERE DETERMINED FROM ASSESSORS NAPS AND LIMITED FIELD MEASUREMENTS. PROPERTY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE AND TO SHOW ADJACENT PROPERTY OWNERS ONLY.

SOURCE:

1. THE BASE PLAN WAS OBTAIN FROM ELECTRONIC FILES PREPARED BY BENESCH AND PREPARED FOR THE TOWN OF COVENTRY ENTITLED "RIGHT OF WAY & TOPOGRAPHY SURVEY, SOUTH STREET EXTENSION", DATED: 1/21/2025 ORIGINAL SCALE: 1"=40', DRAWING NO.: SV 01, CAD FILE: 70977 SURVEY.DWG.PDF.
2. HORIZONTAL DATUM: NAD83 VERTICAL DATUM: NAVD88
3. PROPOSED PRELIMINARY WATER MAIN ALIGNMENT TO BE COORDINATED WITH TOWN ON COVENTRY AND THE CONNECTICUT WATER COMPANY STANDARDS.
4. LOCATION OF PROPOSED RESIDENTIAL SERVICES TO BE CONFIRMED.
5. FEMA FLOOD PLAIN ZONE A BOUNDARY DIGITIZED FROM FIRM FLOOD INSURANCE RATE MAP, TOWN OF COVENTRY, CONNECTICUT, TOLLAND COUNTY. COMMUNITY PANEL NUMBER 090110 0015 C. EFFECTIVE DATE JUNE 4, 1980.

PERMIT DRAWING
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0 75' 150' 300' 450'
SCALE IN FEET 1" = 150'

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

APPROVED:

OVERALL SITE PLAN AND SHEET INDEX

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-1
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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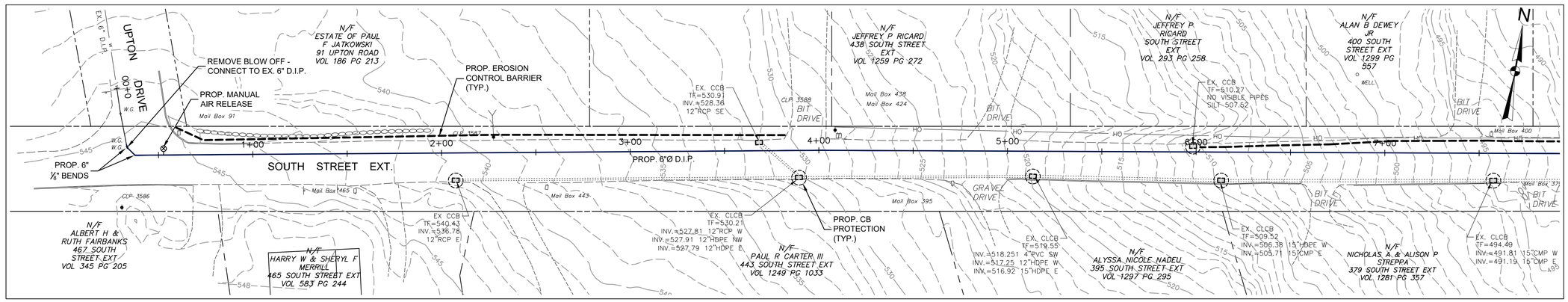

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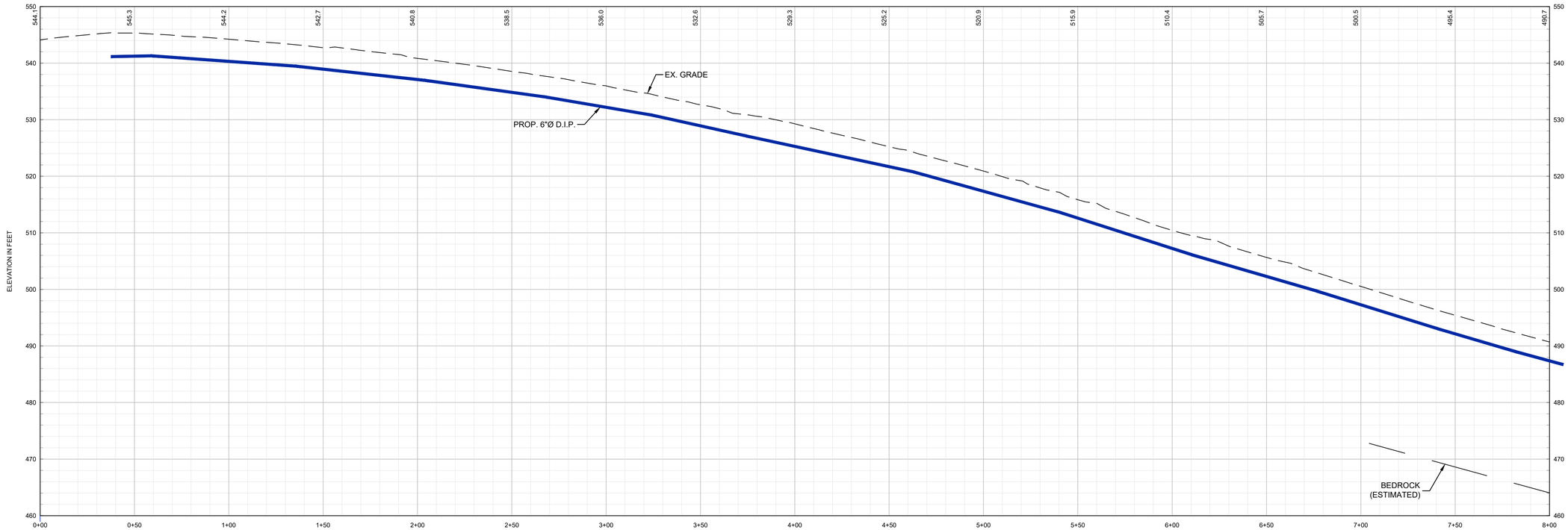
SCALE IN FEET 1" = 30'



VERTICAL SCALE IN FEET 1" = 10'

0 5' 10' 20'

0 15' 30' 60'

HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 0+00 TO 8+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-2
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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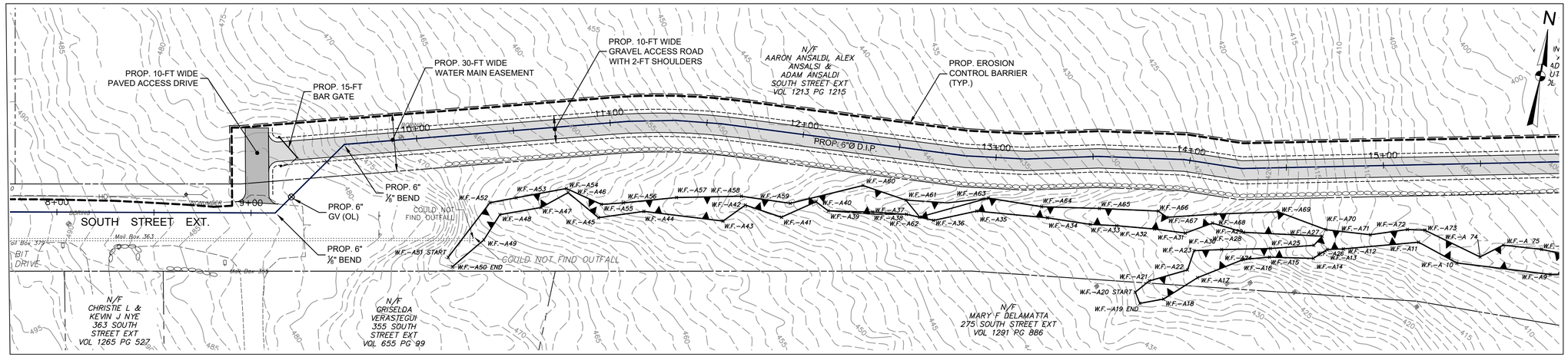

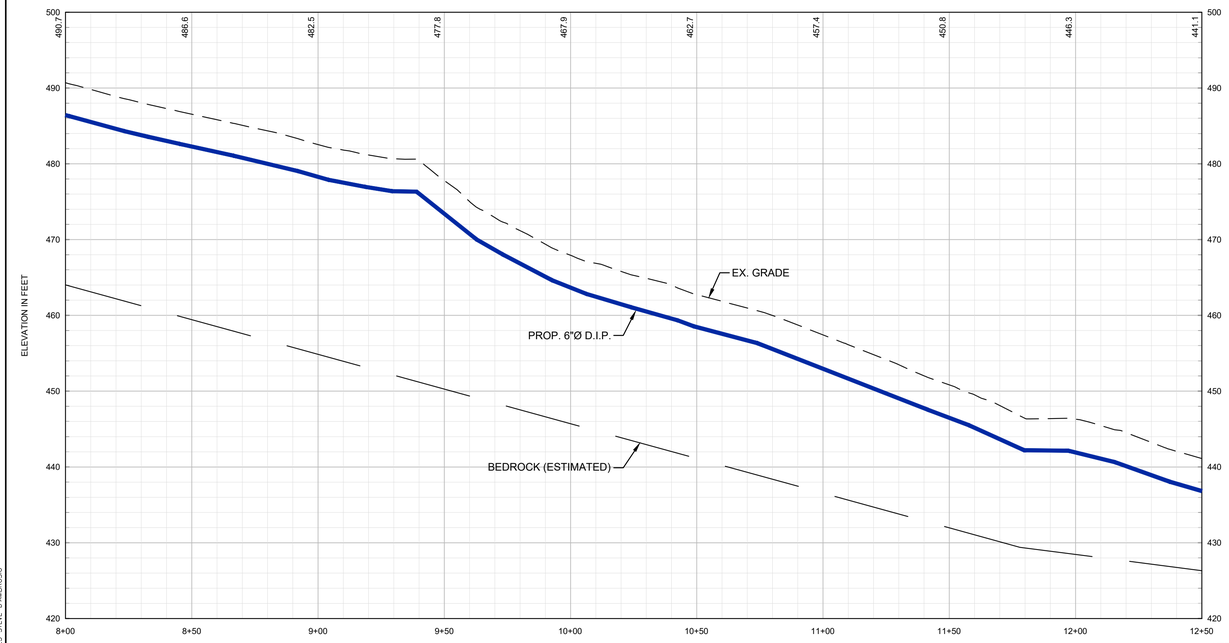

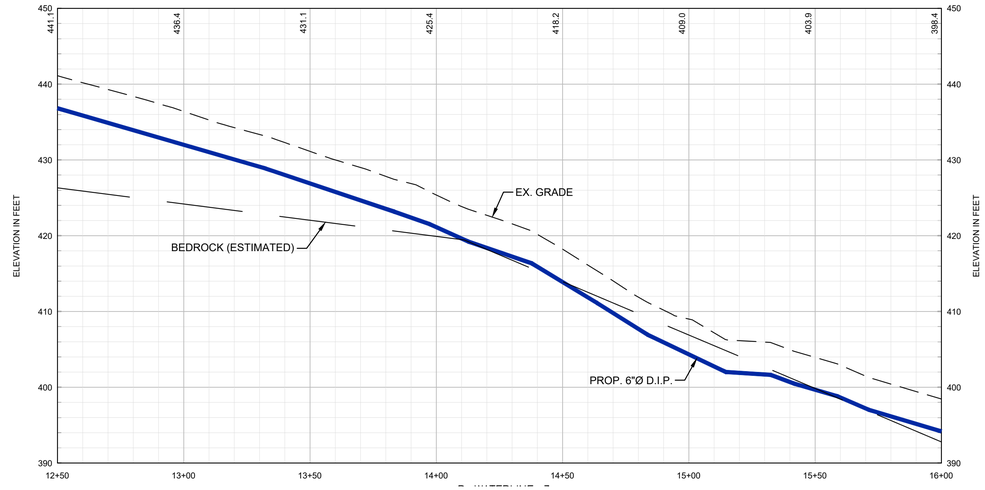

VERTICAL SCALE IN FEET 1" = 10'
0 5' 10' 20'
0 15' 30' 60'
HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- WETLAND BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR (535)
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE (x x)
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES (OH)
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE (W.G.)
- EXISTING WELL (WELL)
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 8+00 TO 16+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-3
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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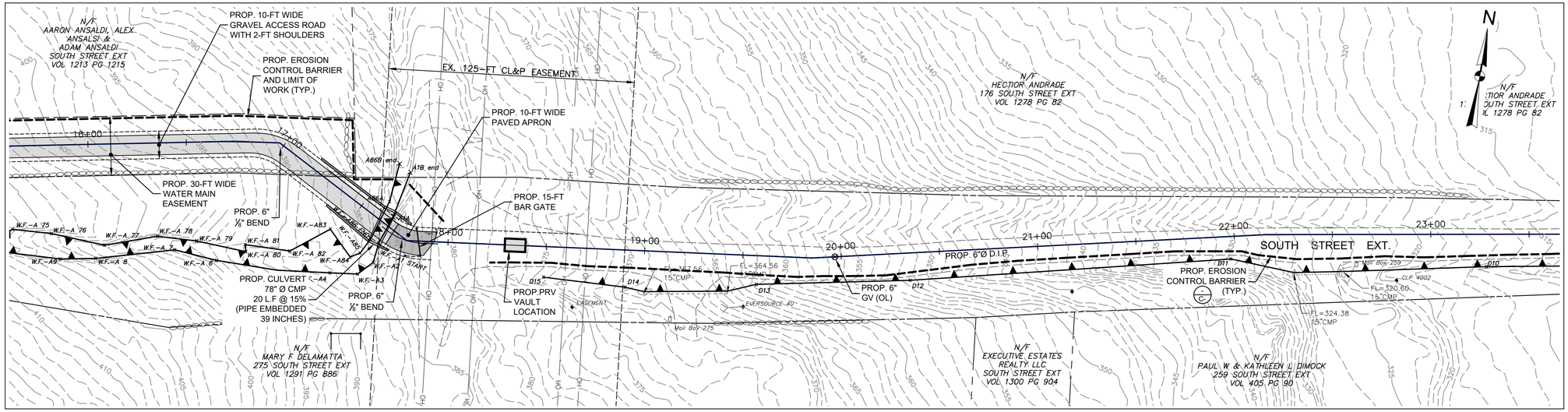

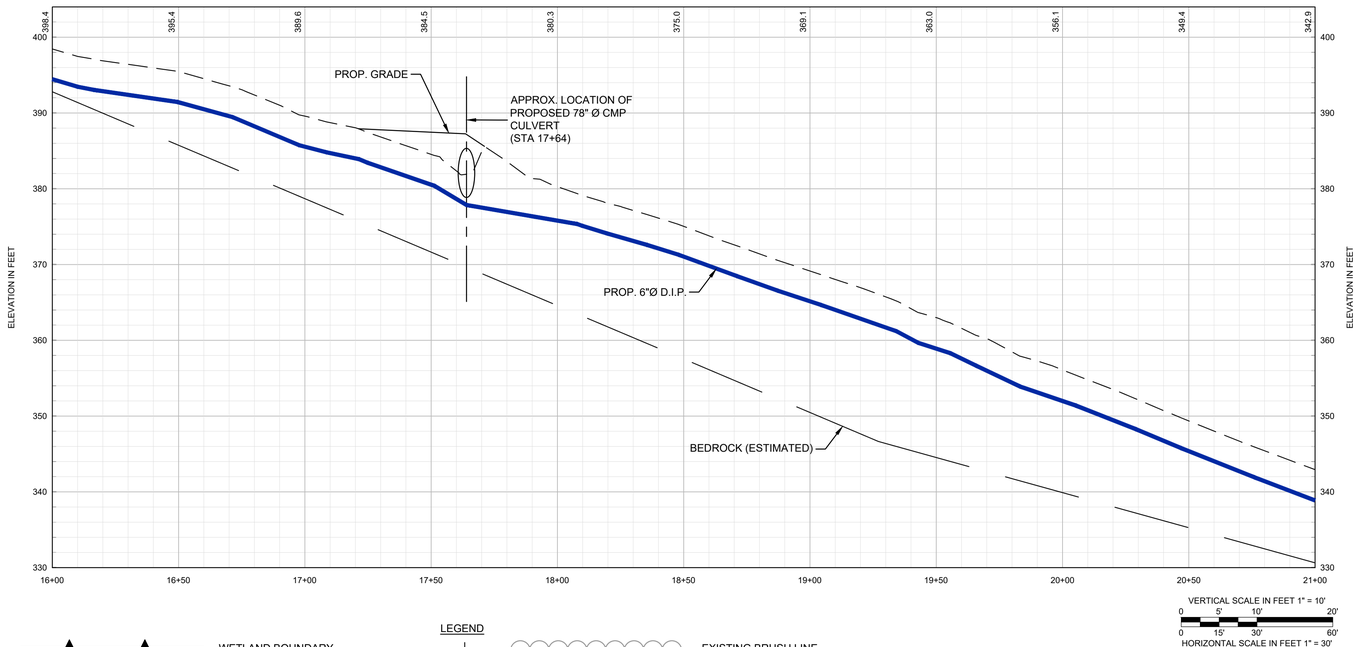

LEGEND

- WETLAND BOUNDARY
- EXISTING 1-FT CONTOUR
- 535 EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- x x EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- OH EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- W.G. EXISTING WATER GATE
- WELL. EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 16+00 TO 23+50

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-4
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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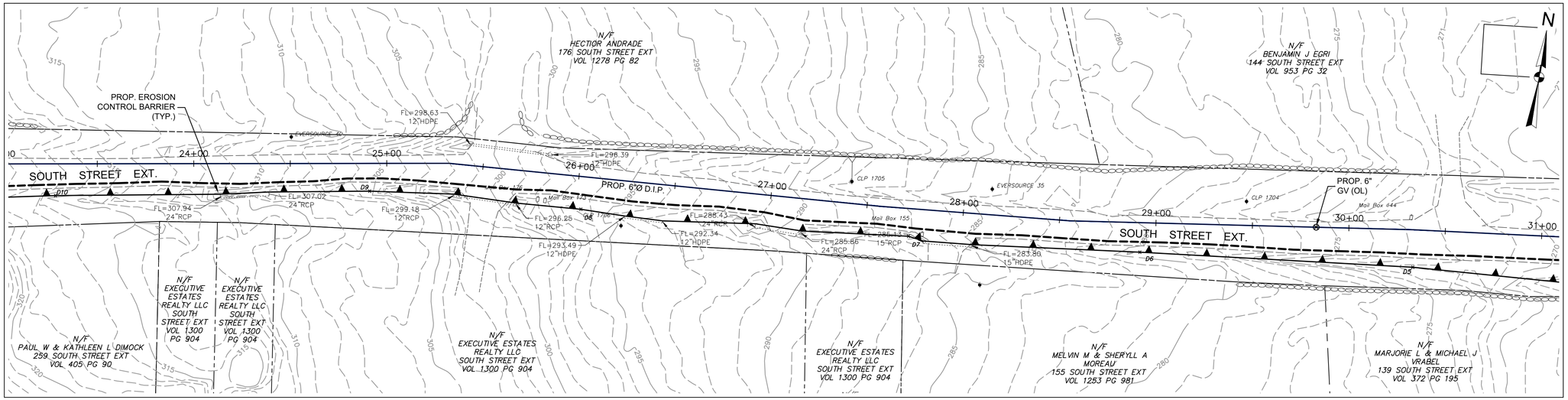
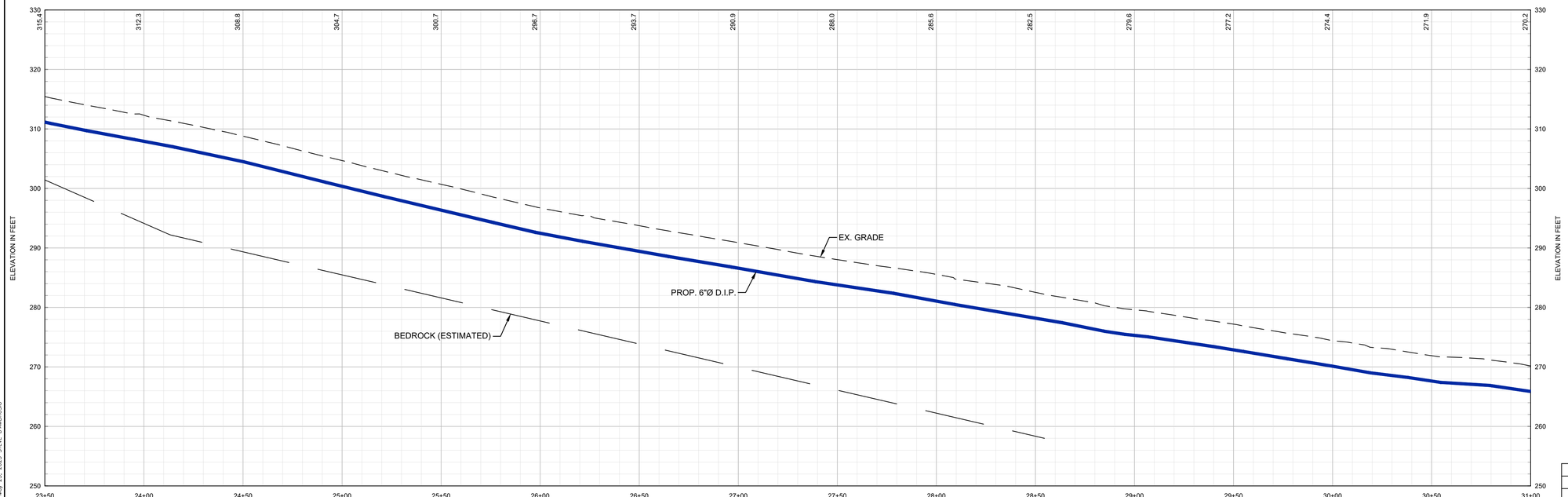
GZA-21x17144-01.R(0)\CAD\17144-01_WATERMAINLAYOUT-INLAND WETLANDS.DWG SHEET 4 May 23, 2025 STEVE D'AMBROSIO



0 15' 30' 60' 90'
SCALE IN FEET 1" = 30'



VERTICAL SCALE IN FEET 1" = 10'
0 5' 10' 20'
0 15' 30' 60'
HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 23+50 TO 31+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-5
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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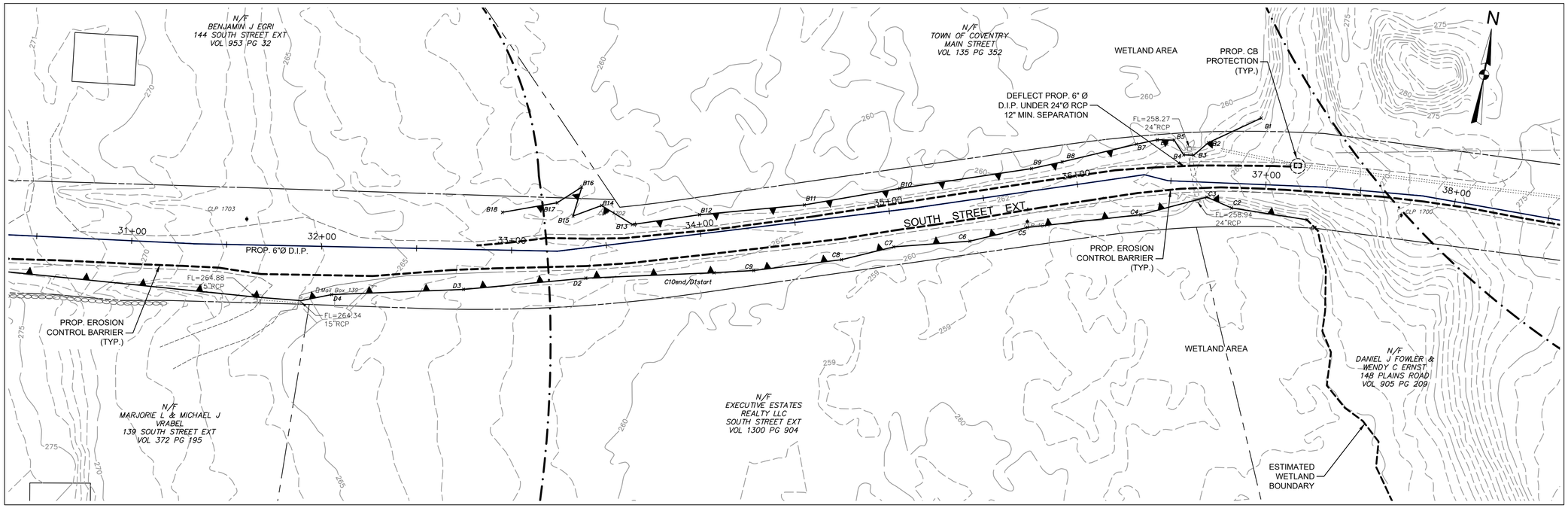
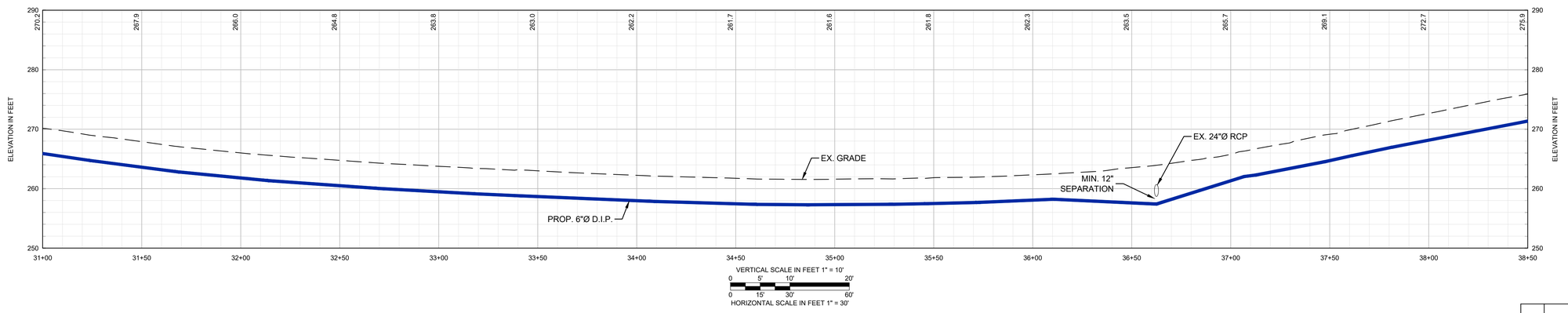
G:\GZA-Z_V7144-01-R2D\CAD\V7144_01_WATERMAINLAYOUT-INLAND WETLANDS.DWG SHEET 5 May 23, 2025 STEVE D'AMBROSIO





LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR (535)
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE (x x)
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES (OH)
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE (W.G.)
- EXISTING WELL (WELL)
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 31+00 TO 38+50

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-6
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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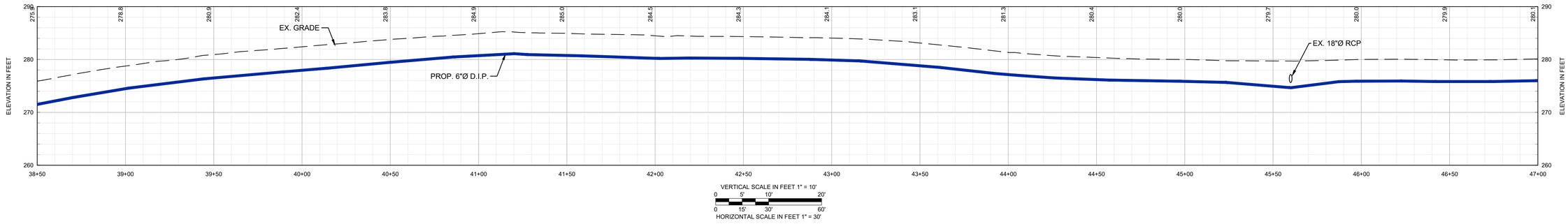

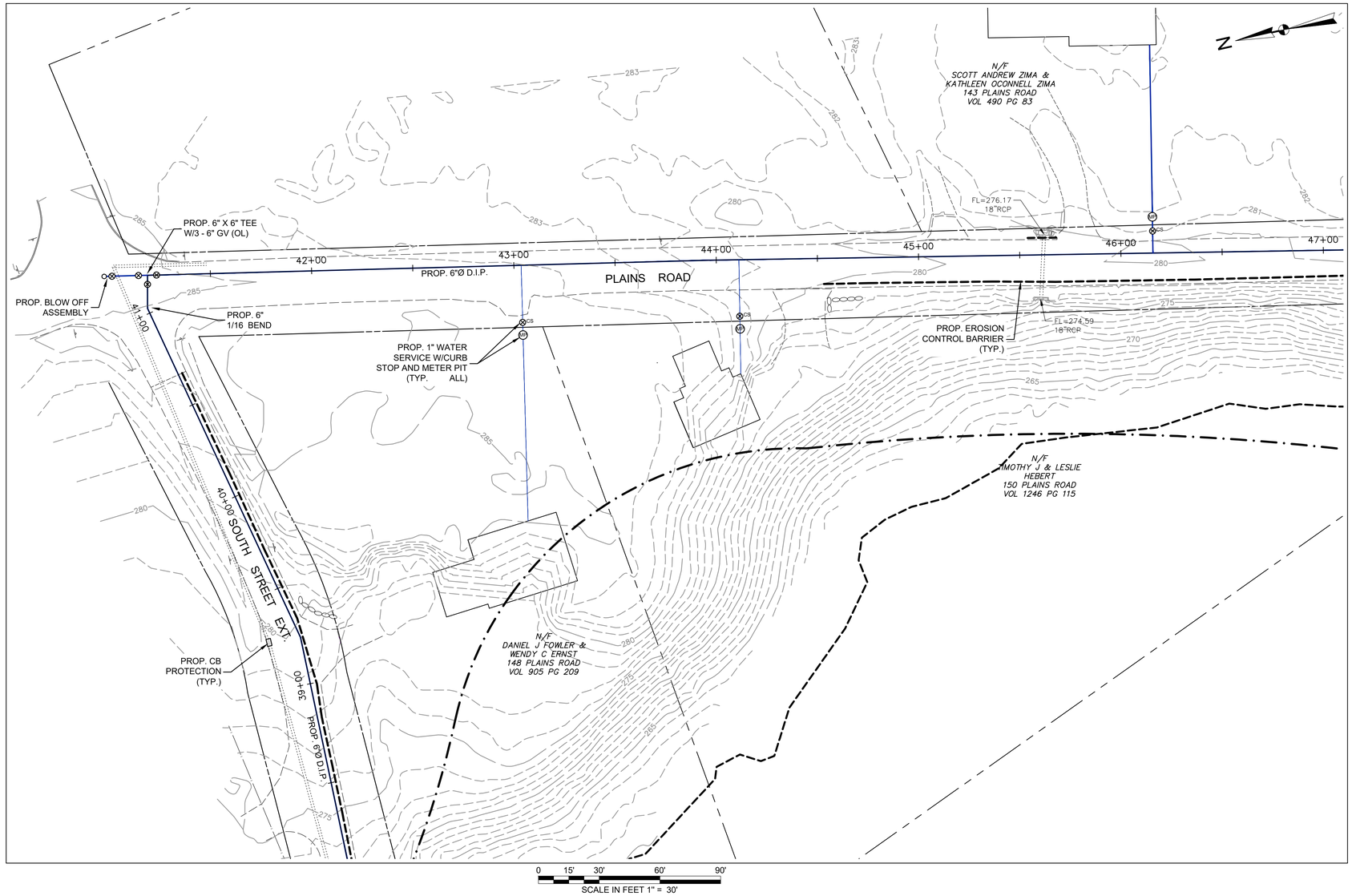

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

APPROVED:

SOUTH STREET EXT. PLAN AND PROFILE
STA 38+50 TO 46+50

PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-7
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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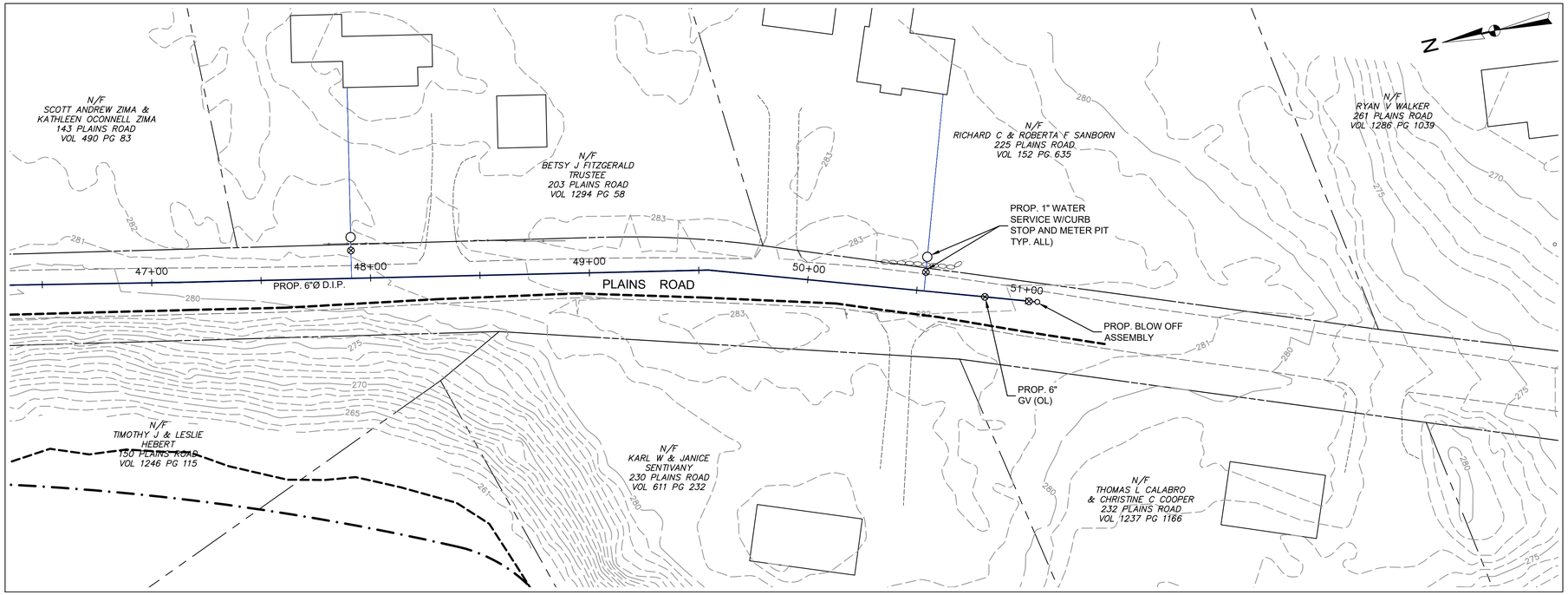
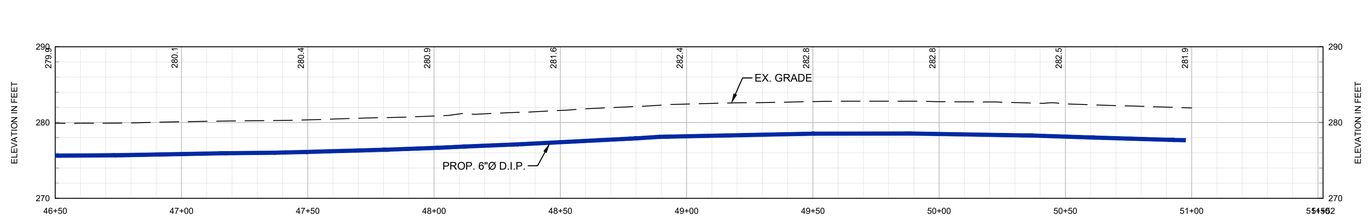
GZA-Z:_X7144-01\8.0\CAD\X7144-01_WATERMAINLAYOUT-INLAND WETLANDS.DWG SHEET 7 May 23, 2025 STEVE D'AMBROSO





LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- 535 EXISTING 5-FT CONTOUR
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- OH EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- W.G. EXISTING WATER GATE
- WELL. EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

PLAINS ROAD PLAN AND PROFILE
STA 46+50 TO 52+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-8
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. --	

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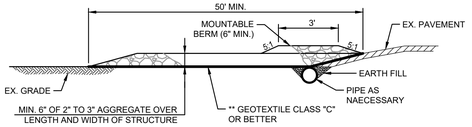
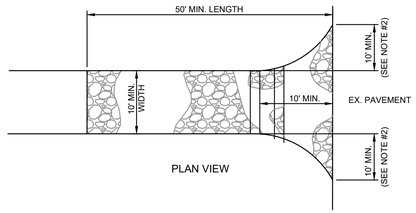


SECTION

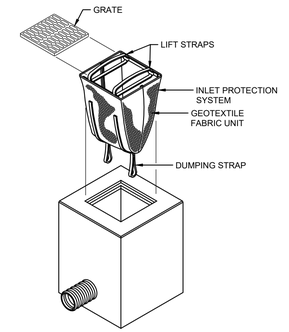


PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).
2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIGNED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM DIAMETER PIPE WILL BE REQUIRED.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

X / C-X STABILIZED CONSTRUCTION ENTRANCE
NTS

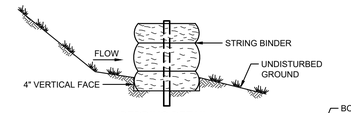


INSTALLATION AND MAINTENANCE GUIDELINES

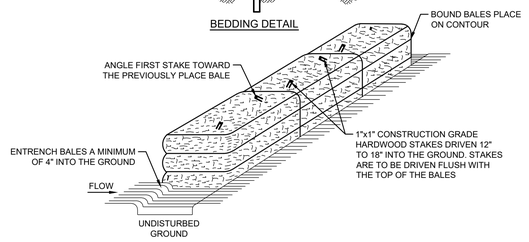
INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE GEOTEXTILE FABRIC UNIT SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE GEOTEXTILE FABRIC UNIT. IF THE CONTAINMENT AREA IS MORE THAT 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

X / C-X CATCH BASIN SEDIMENTATION PROTECTION
NTS

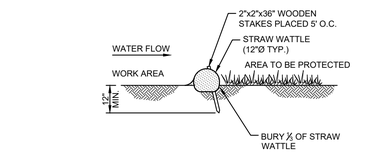


BEDDING DETAIL

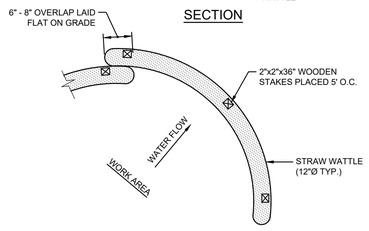


ANCHORING DETAIL

X / C-X STRAW BALE SILT FENCE BARRIER
NTS

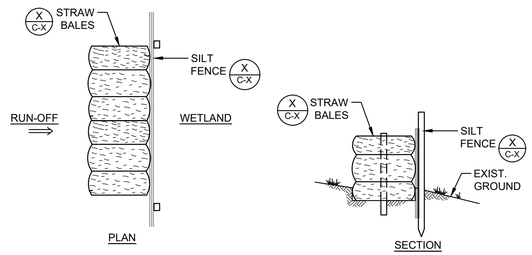


SECTION



PLAN

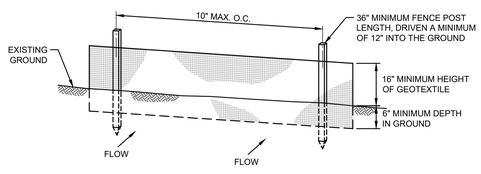
X / C-X STRAW WATTLE FOR SEDIMENT CONTROL
NTS



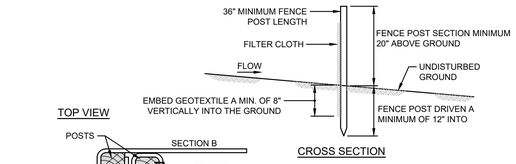
PLAN

SECTION

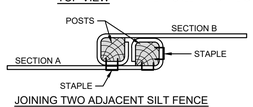
X / C-X COMBINATION SILT FENCE / STRAW BALE EROSION CONTROL BARRIER
NTS



PERSPECTIVE VIEW



CROSS SECTION



JOINING TWO ADJACENT SILT FENCE SECTIONS

X / C-X SILT FENCE
NTS

SEDIMENT AND EROSION CONTROL NOTES:

1. SEDIMENT AND EROSION CONTROLS SHOWN ON DRAWINGS DEPICT THE MINIMUM MEASURES REQUIRED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFIRMING ADEQUACY OF PROPOSED EROSION AND SEDIMENT CONTROL MEASURES AND PREPARATION OF THEIR CONTRACTOR'S EROSION CONTROL PLAN.
2. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
3. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE SEDIMENT AND EROSION CONTROL PLAN PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES UNTIL THE AREAS DRAINING TO THEM ARE FINAL STABILIZED. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED. CONDUCT INSPECTIONS AND REPORTING IN ACCORDANCE WITH ALL PERMITS.
4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN, AT NO ADDITIONAL COST TO THE OWNER, ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY FOR PERMIT COMPLIANCE BY THE CONTRACTOR, THE OWNER AND/OR THEIR REPRESENTATIVES, OR BY FEDERAL/STATE/LOCAL GOVERNMENT INSPECTORS.
5. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS AND THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL".
6. A CONSTRUCTION ENTRANCE FOR THIS PROJECT IS MANDATORY TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC THOROUGHFARES. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARES. ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARES SHALL BE REMOVED IMMEDIATELY.
7. ALL SEDIMENT BASINS, TRAP EMBANKMENTS, SWALES, PERIMETER DIKES, AND PERMANENT SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES, WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. NO AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL BARRIER OR LIMIT OF WORK SHALL BE DISTURBED.
8. THE CONTRACTOR SHALL APPLY SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS, SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN 50 FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPTED FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
9. STOCKPILES WHICH HAVE NOT BEEN USED FOR 14 CALENDAR DAYS, SHALL BE STABILIZED THROUGH THE APPLICATION OF SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
10. ALL CATCH BASINS OR OTHER DRAIN INLETS WHICH MAY RECEIVE STORMWATER FROM DISTURBED AREAS SHALL BE PROVIDED WITH SUITABLE INLET PROTECTION CONSISTING OF AN OPEN–TOP FILTER FABRIC BAG THAT IS DESIGNED TO HANG UNDERNEATH A STORM GRATE TO FILTER SEDIMENT–LADEN STORMWATER. A SINGLE ROW OF HAY BALES AROUND THE INLET GRATE SHALL ALSO BE INSTALLED AND MAINTAINED UNTIL PAVING HAS BEEN COMPLETED.
11. EFFLUENT FROM DEWATERING OPERATIONS AND LINE FLUSHING DISCHARGES SHALL BE DIRECTED INTO FIBER MATS, NETTING, RIPRAP, OR NATURALLY OCCURRING GROUND COVER TO MINIMIZE EROSION. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE PUMPED EITHER TO SEDIMENT TANKS, SEDIMENT BAGS, AND/OR SEDIMENT TRAPS FOR SEDIMENT REMOVAL. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES AND PROJECT SPECIFICATIONS AND IN A MANNER THAT DOES NOT ADVERSELY AFFECT AREAS OUTSIDE OF THE LIMIT OF WORK.
12. TEMPORARY SEDIMENT TRAP(S) SHALL BE CLEANED OUT AND RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE HALF (1/2) THE DEPTH BETWEEN THE OUTLET CREST AND THE BOTTOM OF THE TRAP.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING, CALCIUM CHLORIDE, OR OTHER EFFECTIVE MEANS OF CONTROL.
14. ALL WASTE MATERIALS GENERATED AT THE SITE SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OR STORED IN A SECURELY–COVERED CONTAINER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. CONTAINER SHALL BE EMPTIED ON A REGULAR BASIS AND AS NECESSARY. NO CONSTRUCTION WASTE OR DEBRIS SHALL BE BURIED ONSITE.
15. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED AND WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
16. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN 24 HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS 48 HOURS AFTER THE END OF A RAINFALL, AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS OR OPENINGS.
17. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES THE CONTRACTOR SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS WHEN PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH OR OTHER ACCEPTABLE MEANS SHALL BE APPLIED TO DISTURBED AREAS.
18. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHIN (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CLEANED AND CONVERTED TO THEIR PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL. ALL STORM DRAINAGE STRUCTURES, SUMPS, AND PIPES SHALL BE CLEANED OF ALL SEDIMENTS PRIOR TO FINAL PAYMENT.

PERMIT DRAWING
NOT FOR CONSTRUCTION

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SEDIMENT AND EROSION CONTROL DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-9
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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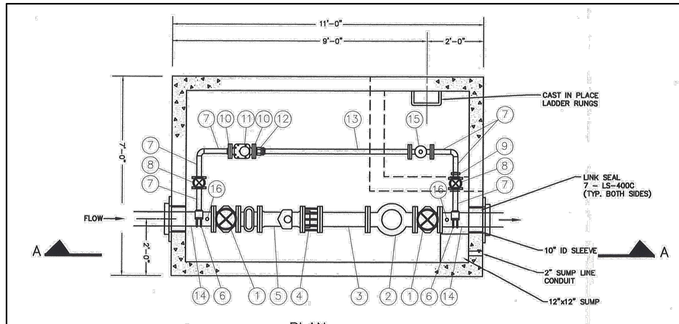
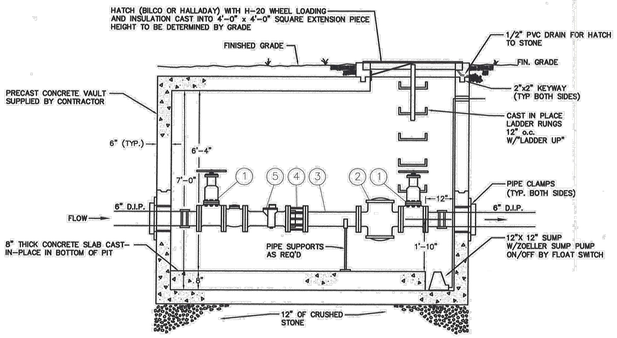
GZA-Z:\f7144-01\R20\CAD\V17\4.01 - DETAILS.DWG SAE DETAILS May 23, 2025 STEVE D'AMBROSIO



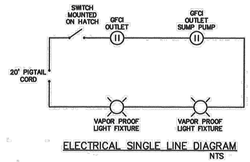
PLAN
SCALE: 3/8"=1'-0"



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

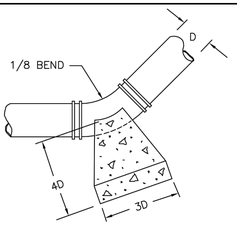
STANDARD 6" PRV PIT
NTS

PIPING MATERIAL LIST			
SYM	QTY	DESCRIPTION	MANUFACT. - MODEL
1	2	6" FLANGED GATE VALVE	
2	1	6" FLANGED PRESSURE REDUCING VALVE	CLA-VAL 90-01
3	1	6" FLG x FLG SPOOL PIECE 1'-10" LONG	
4	1	6" DISMANTLING JOINT	MUELLER
5	1	6" TURBO METER W/STRAINER	SENSUS W2000
6	2	6" PIPE SADDLE DOUBLE STRAP W/2" TAP	
7	6	2"x9" LONG BRASS THREADED NIPPLE	
8	2	2" THREADED GATE VALVE	
9	1	2" NPT TO COPPER ADAPTER	
10	1	METER FLANGE 2" MTR X 2" IPT F	FORD No.7F
11	1	2" METER	SENSUS TURBO METER W-160
12	1	LOK-PAK METER COUPLING	FORD No. CF34-77
13	2	2" TYPE "L" COPPER PIPE CUT AS REQ'D	
14	1	6" FLG x PE SPOOL PIECE CUT AS REQ'D	
15	1	2" FLANGED PRESSURE REDUCING VALVE	CLA-VAL 90-01
16	2	1/4" GAUGE PORT	

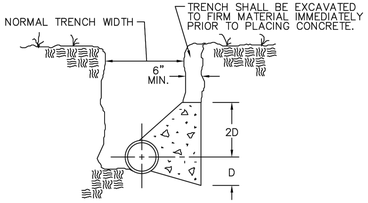


ELECTRICAL SINGLE LINE DIAGRAM
NTS

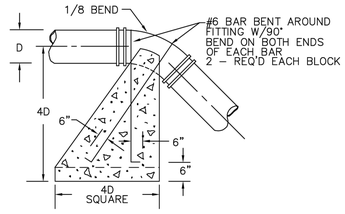
GENERAL NOTES:
1. LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
2. WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING GLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
4. ALL WATER MAIN SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE EXCEPT WHERE NOTED.
5. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN FIELD



HORIZONTAL THRUST BLOCK DETAIL (PLAN VIEW)



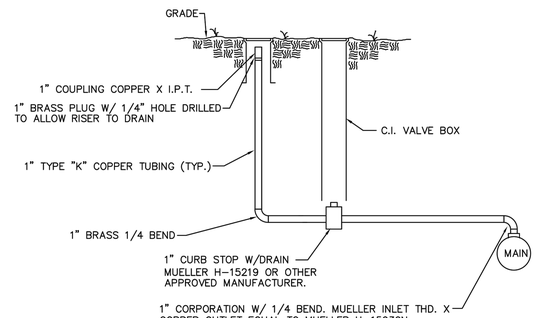
HORIZONTAL THRUST BLOCK DETAIL



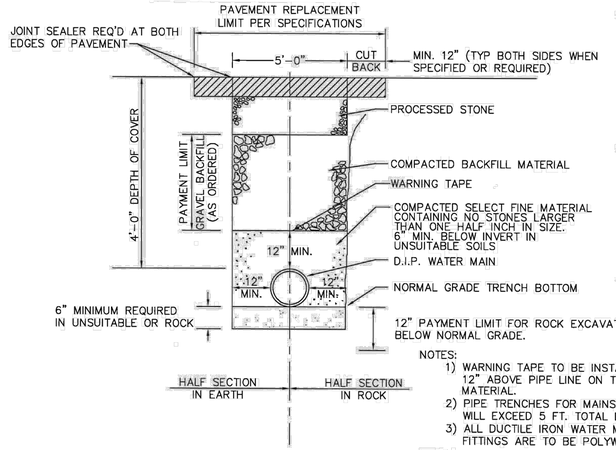
VERTICAL THRUST BLOCK DETAIL

NOTES:
1) 3000 PSI CONCRETE TO BE USED FOR THRUST BLOCKS.
2) D-DIAMETER OF WATER MAIN.
3) MEGA-LUG RESTRAINING GLANDS SHALL BE USED ON ALL MJ FITTINGS.
4) SOLID CONCRETE BLOCKS WITH WEDGES WILL BE PERMITTED ON MAINS UP TO 10" ALL 12" OR LARGER SHALL BE POURED THRUST BLOCKS.
5) LOCKING GASKETS SHALL BE INSTALLED A MIN. 2 FULL PIPE LENGTHS ON EITHER SIDI OF A BEND.

THRUST BLOCK DETAILS
NTS



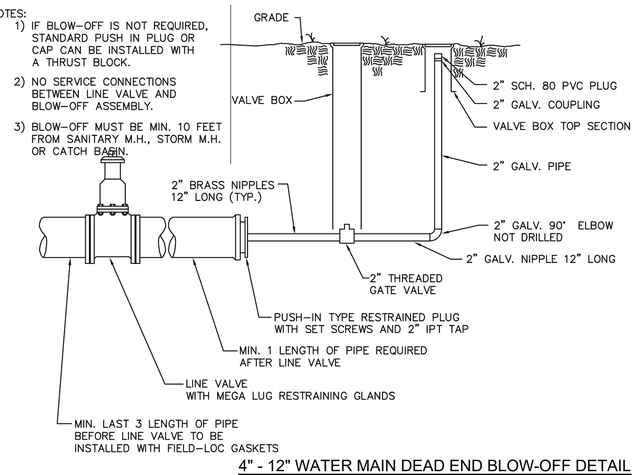
MANUAL AIR RELEASE VALVE
NTS



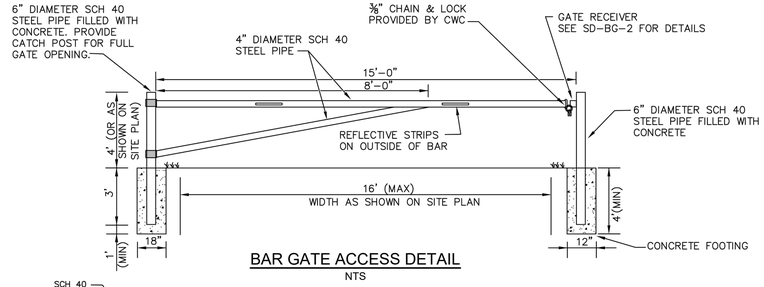
NOTES:
1) WARNING TAPE TO BE INSTALLED A MIN. OF 12" ABOVE PIPE LINE ON TOP OF SELECT FINE MATERIAL.
2) PIPE TRENCHES FOR MAINS ABOVE 12" DIA. WILL EXCEED 5 FT. TOTAL DEPTH.
3) ALL DUCTILE IRON WATER MAIN AND FITTINGS ARE TO BE POLYWRAPPED.

WATERMAIN INSTALLATION DETAIL
(TYPICAL TRENCH AND PAYMENT LIMITS)
NTS

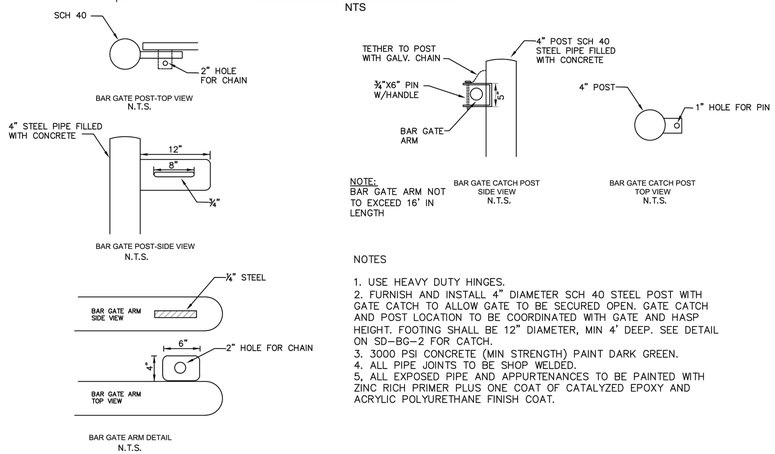
NOTES:
1) IF BLOW-OFF IS NOT REQUIRED, STANDARD PUSH IN PLUG OR CAP CAN BE INSTALLED WITH A THRUST BLOCK.
2) NO SERVICE CONNECTIONS BETWEEN LINE VALVE AND BLOW-OFF ASSEMBLY.
3) BLOW-OFF MUST BE MIN. 10 FEET FROM SANITARY M.H., STORM M.H. OR CATCH BASIN.



4" - 12" WATER MAIN DEAD END BLOW-OFF DETAIL
NTS



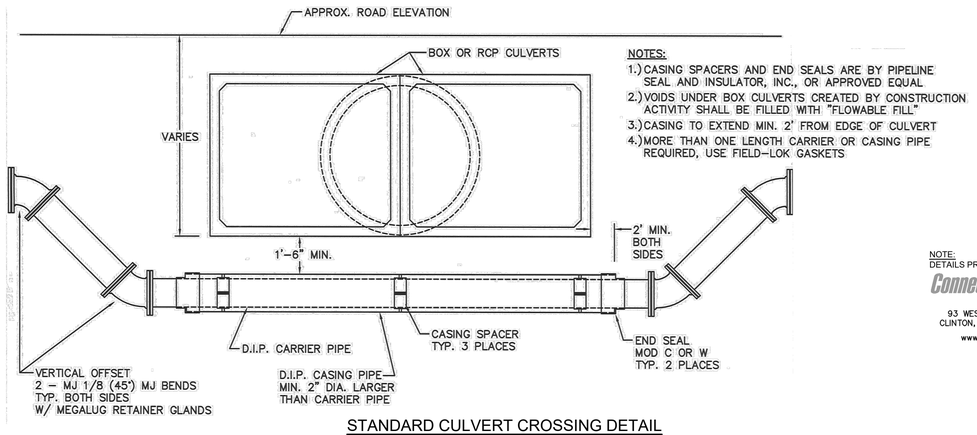
BAR GATE ACCESS DETAIL
NTS



NOTE:
BAR GATE ARM NOT TO EXCEED 16' IN LENGTH

NOTES
1. USE HEAVY DUTY HINGES.
2. FURNISH AND INSTALL 4" DIAMETER SCH 40 STEEL POST WITH GATE CATCH TO ALLOW GATE TO BE SECURED OPEN. GATE CATCH AND POST LOCATION TO BE COORDINATED WITH GATE AND HASP HEIGHT. FOOTING SHALL BE 12" DIAMETER, MIN 4' DEEP. SEE DETAIL ON SD-BG-2 FOR CATCH.
3. 3000 PSI CONCRETE (MIN STRENGTH) PAINT DARK GREEN.
4. ALL PIPE JOINTS TO BE SHOP WELDED.
5. ALL EXPOSED PIPE AND APPURTENANCES TO BE PAINTED WITH ZINC RICH PRIMER PLUS ONE COAT OF CATALYZED EPOXY AND ACRYLIC POLYURETHANE FINISH COAT.

BAR GATE POST & CATCH DETAIL
NTS



NOTES:
1.) CASING SPACERS AND END SEALS ARE BY PIPELINE SEAL AND INSULATOR, INC., OR APPROVED EQUAL
2.) VOIDS UNDER BOX CULVERTS CREATED BY CONSTRUCTION ACTIVITY SHALL BE FILLED WITH "FLOWABLE FILL"
3.) CASING TO EXTEND MIN. 2' FROM EDGE OF CULVERT
4.) MORE THAN ONE LENGTH CARRIER OR CASING PIPE REQUIRED, USE FIELD-LOK GASKETS

STANDARD CULVERT CROSSING DETAIL
NTS

NOTE:
DETAILS PROVIDED BY
ConnecticutWater
93 WEST MAIN STREET
CLINTON, CT 06413-1600
www.ctwater.com

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

DETAILS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. www.gza.com		TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-10
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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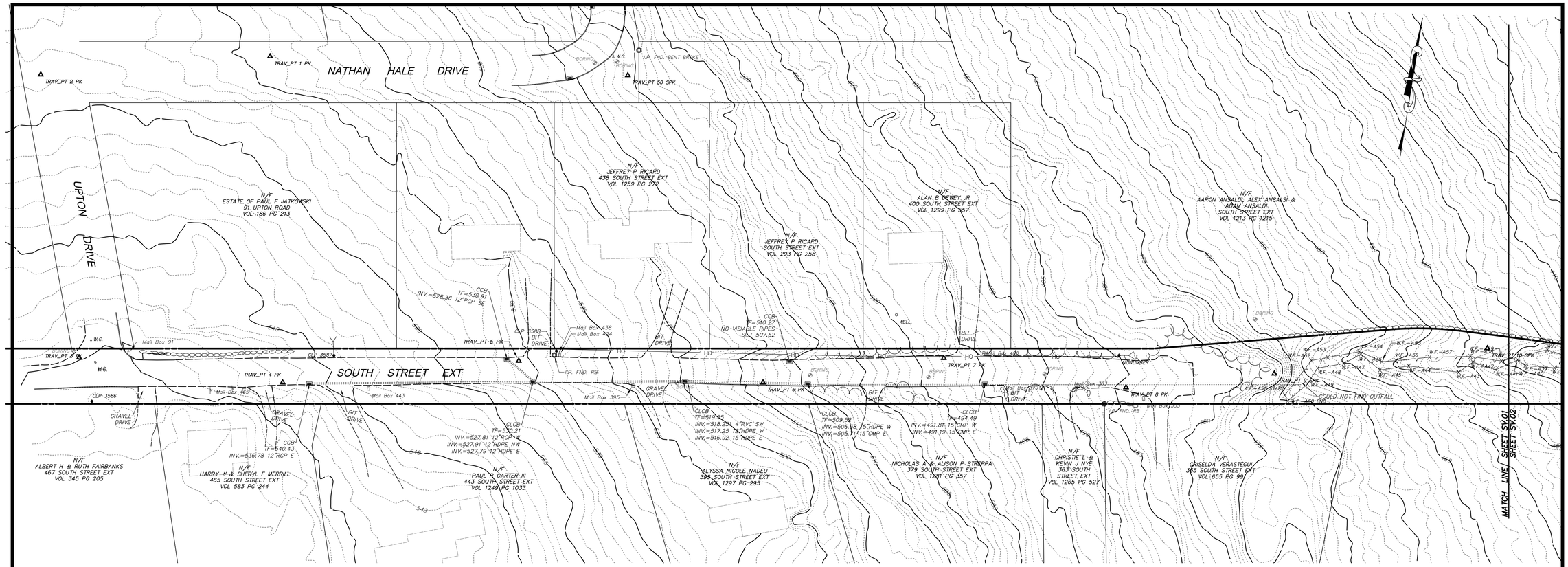
GZA-Z:\47144-01\R&D\CAD\47144-01 - DETAILS.DWG WATER DETAILS May 23, 2025 STEVE D'AMBROSIO



LEGEND

UTILITY SERVICES (UNDERGROUND OR OVERHEAD)

E	ELECTRIC SERVICE
G	GAS PIPES
SAN	SANITARY SEWER PIPES
	STORM WATER PIPES (LESS THAN 12")
	STORM WATER PIPES (12" OR LARGER)
STM	STEAM PIPES (SUPPLY & COND.)
T	TELEPHONE SERVICE
W	WATER PIPES
COM	COMMUNICATION/FIBER OPTIC SERVICE
FP	FIRE PROTECTION PIPES
UG	UNKNOWN UTILITY SERVICE
OH	OVERHEAD WIRES

PROPERTY/BOUNDARY LINES

- PROPERTY/BOUNDARY LINES (CLASS A-2)
- PROPERTY/BOUNDARY LINES (CLASS D)
- EASEMENT LINES

FEATURE LINES

- CURBED ROADWAY
- EDGE OF PAVED ROAD/DRIVE
- BUILDING ROOFLINE (AERIAL PHOTOS)
- RETAINING WALL
- STOCKADE FENCE
- CHAIN LINK/WIRE FENCE
- TREE/VEGATATION LINE
- STONE WALL
- SURFACE WATER (WATERCOURSE)
- WETLANDS LIMIT
- EDGE OF LANDSCAPING
- INTERMEDIATE CONTOUR
- INDEX CONTOUR

SYMBOL LEGEND

- CATCH BASIN
- ROUND DRAIN
- SQUARE DRAIN
- STORM DRAIN MANHOLE
- ELECTRIC MANHOLE
- SANITARY MANHOLE
- STEAM MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MANHOLE (OF UNKNOWN TYPE)
- HAND HOLE (SQ. / REC.)
- W.G. WATER VALVE
- G.G. GAS VALVE
- HYDRANT
- COMBO STANDPIPE
- GUY WIRE
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)
- BORING (AS DRILLED)
- BORING (AS STAKED)
- 427.3 SPOT ELEVATION
- WETLANDS FLAG
- PROPERTY MONUMENT
- UTILITY MONUMENT (SET AS 2' OFFSET)
- IRON PIPE OR REBAR FOUND
- IRRIGATION CONTROL BOX
- EMERGENCY PHONE
- TRAFFIC CONTROLLER CABINET
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- STREET LIGHT
- LIGHT POST
- BOLLARD LIGHT
- BOULDER / ROCK
- CONIFER SHRUB
- DECIDUOUS SHRUB
- DECIDUOUS TREE (SAPLING)
- DECIDUOUS TREE
- CONIFER TREE

ABBREVIATIONS

A/C	AIR CONDITIONER
AT&T	AMERICAN TELEPHONE & TELEGRAPH COMPANY
BIT.	BITUMINOUS
BLK.	BLACK
CB	CATCH BASIN
COM	COMMUNICATION
CON.	CONIFER
CONC.	CONCRETE
CNG	CONNECTICUT NATURAL GAS
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CL&P	CONNECTICUT LIGHT & POWER COMPANY
CP	CONTROL POINT
DEC.	DECIDUOUS
DMH	DRAINAGE MANHOLE
E	EAST OR ELECTRIC
EL.	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
F.L.	FLOW LINE
FND.	FOUND
GRAN.	GRANITE
GSTC	GRANITE STONE CURB
HELCO	HARTFORD ELECTRIC COMPANY
HYD.	HYDRANT
H.H.	HAND HOLE
L.P.	LIGHT POLE
MH	MANHOLE
M	METER
M.W.	MONITOR WELL
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NE	NORTHEAST
N/F	NOW OR FORMERLY
NW	NORTHWEST
PVC	POLYVINYL CHLORIDE
P.I.V.	POST INDICATOR VALVE
RET.	RETAINING
RCP	REINFORCED CONCRETE PIPE
R.L.	RAIN LEADER
S	SOUTH OR SUPPLY
SE	SOUTHEAST
SW	SOUTHWEST
SAN.	SANITARY
SMH	SANITARY MANHOLE
SNET	SOUTHERN NEW ENGLAND TELEPHONE
SQ.	SQUARE
STM	STEAM
TMH	TELEPHONE MANHOLE
TEL.	TELEPHONE
T.F.	TOP OF FRAME
UNK.	UNKNOWN
W	WATER OR WEST
W.G.	WATER GATE

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: STB

REVISIONS			
No.	DATE	DESCRIPTION	
1	12/1/2025	locate wetlands	

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" =40'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE
40 20 0 40

benesch

Prepared By:

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

PROJ. No.: 70977
DATE: AUG 2024

SV.01

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

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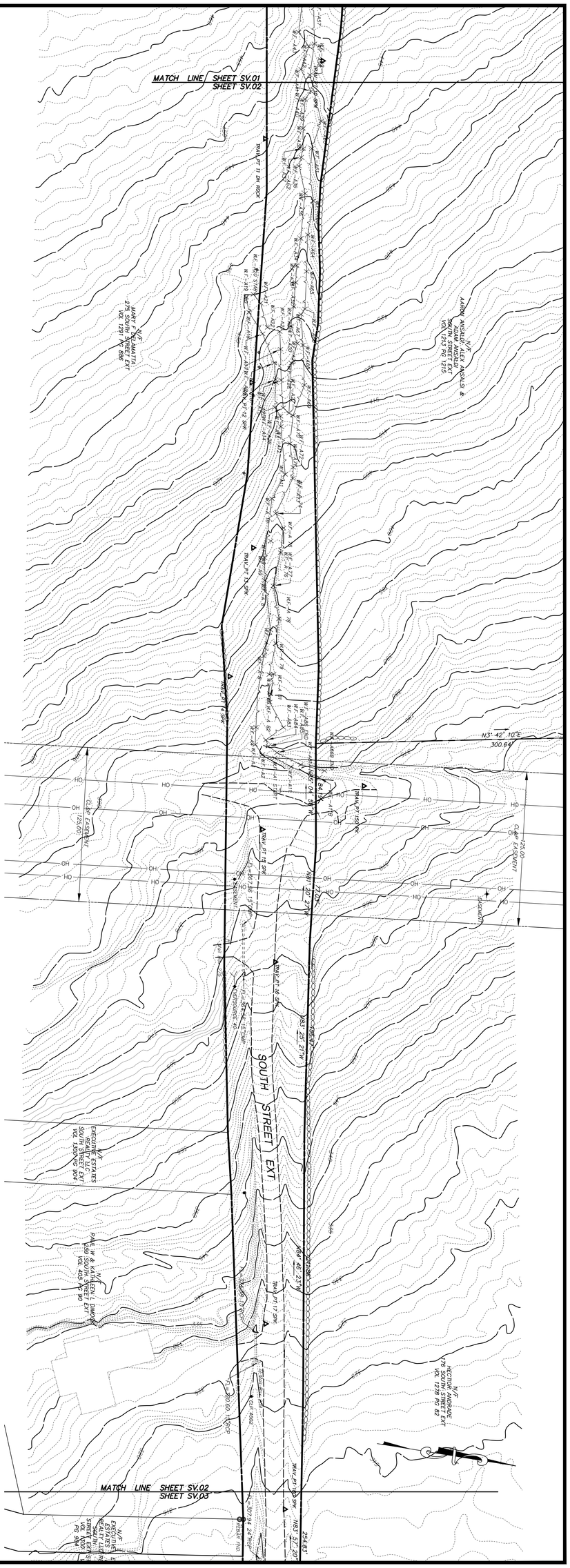
TWISTVIEW:	
VIEWNAME:	
LAYER MANAGER NAME:	
PLOT TABLE: .STB	



SV.02

PROJ. No.: 70977
DATE: AUG 2024

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

Prepared By:

benesch

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www.benesch.com

SCALE: HORZ.: 1" =40'
VERT.:

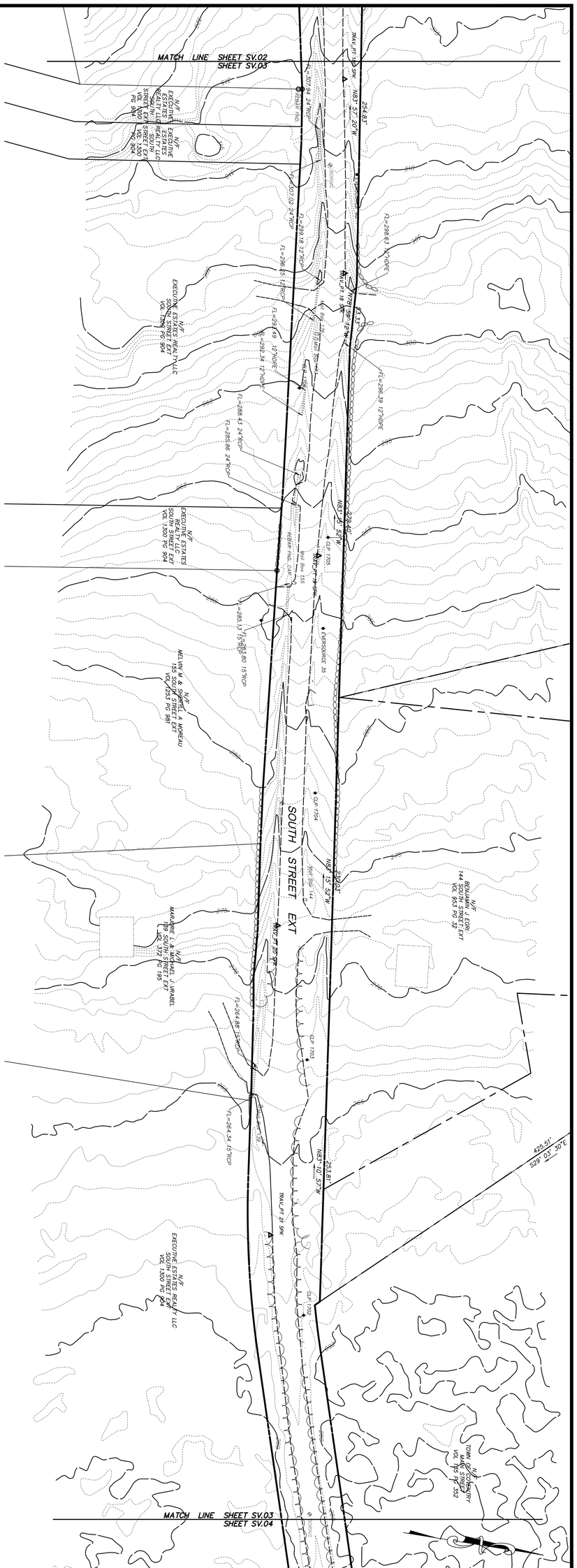
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS			
No.	DATE	DESCRIPTION	SURVEY BOOK: 06-
1	1/21/2025	locate wetlands	SURVEYOR: PC
			DRAWN: DAC
			CHECKED: RS
			APPROVED: WW

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEWNAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



SV.03

PROJ. No.: 70977
DATE: AUG 2024

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION
COVENTRY CONNECTICUT

Prepared By:

benesch

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Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

SCALE: HORZ.: 1" =40'
VERT.:

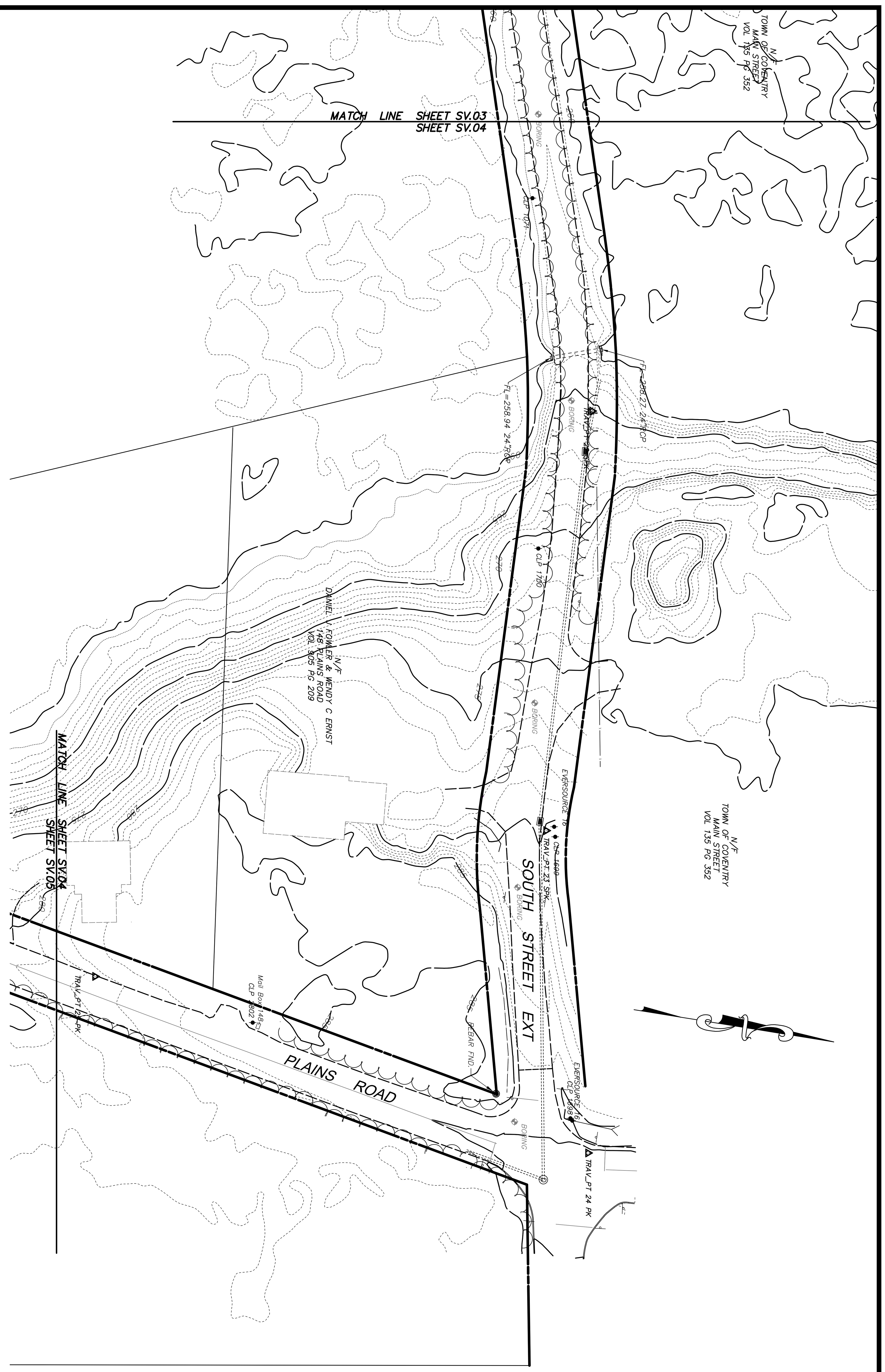
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS			
No.	DATE	DESCRIPTION	SURVEY BOOK: 06-
			SURVEYOR: PC
			DRAWN: DAC
			CHECKED: RS
			APPROVED: WW

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

PAPER SPACE LAYOUT NAME:
TWISTVIEW:
VIEWNAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
SOUTH STREET EXTENSION & PLAINS ROAD
COVENTRY CONNECTICUT

Prepared By:

benesch
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Glastonbury, Connecticut 06033
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SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

PROJ. No.: 70977
DATE: AUG 2024

SV.04

File Location/Name - Y:\Glastonbury\70900S\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:33 AM

N/F
MICHAEL BRETON
PLAINS ROAD
VOL 1262 PG 1177

N/F
THOMAS L CALABRO
& CHRISTINE C COOPER
232 PLAINS ROAD
VOL 1237 PG 1166

N/F
KARL W & JANICE SENTIVANY
240 PLAINS ROAD
VOL 611 PG 302

N/F
TIMOTHY J & LESLIE HEBERT
150 PLAINS ROAD
VOL 1246 PG 115

MATCH LINE SHEET SV.04

SHEET SV.06

PLAINS ROAD

Mail Box 273

Mail Box 261

CLP 3620

Mail Box 230

REBAR FND.

CLP 3619

Mail Box 225

TRAV_PT 28 PK

BORING

CLP 3618

REBAR FND.

Mail Box 203

BORING

TRAV_PT 26 PK

CLP 3617

REBAR FND.

Mail Box 143

BORING

TRAV_PT 25 PK

36" OAK

FL=276.17 18"RCP

FL=274.54 18"RCP

CLP 4574

REBAR FND.

TRAV_PT 29 PK

REBAR FND.

WELL

N/F
JAMES MAULUCCI
273 PLAINS ROAD
VOL 1262 PG 466

N/F
RICHARD C & ROBERTA F SANBORN
225 PLAINS ROAD
VOL 152 PG 535

N/F
RYAN Y WALKER
261 PLAINS ROAD
VOL 1286 PG 1039

N/F
BETSY J FITZGERALD TRUSTEE
203 PLAINS ROAD
VOL 1294 PG 58

N/F
SCOTT ANDREW ZIMA & KATHLEEN OCONNELL ZIMA
143 PLAINS ROAD
VOL 490 PG 83

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" =40'
VERT.:

SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

40 20 0 40
GRAPHIC SCALE

RIGHT OF WAY & TOPOGRAPHIC SURVEY
PREPARED FOR
THE TOWN OF COVENTRY
(WATER LINE EXTENSION)
PLAINS ROAD
COVENTRY CONNECTICUT

Prepared By:

benesch
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www.benesch.com

PROJ. No.: 70977
DATE: AUG 2024

SV.05

File Location\Name - Y:\Glastonbury\70900s\70977.00_GZA_Coventry_Survey\Survey\ACAD\70977 SURVEY.dwg
Date of Plot: May 09, 2025 - 7:34 AM

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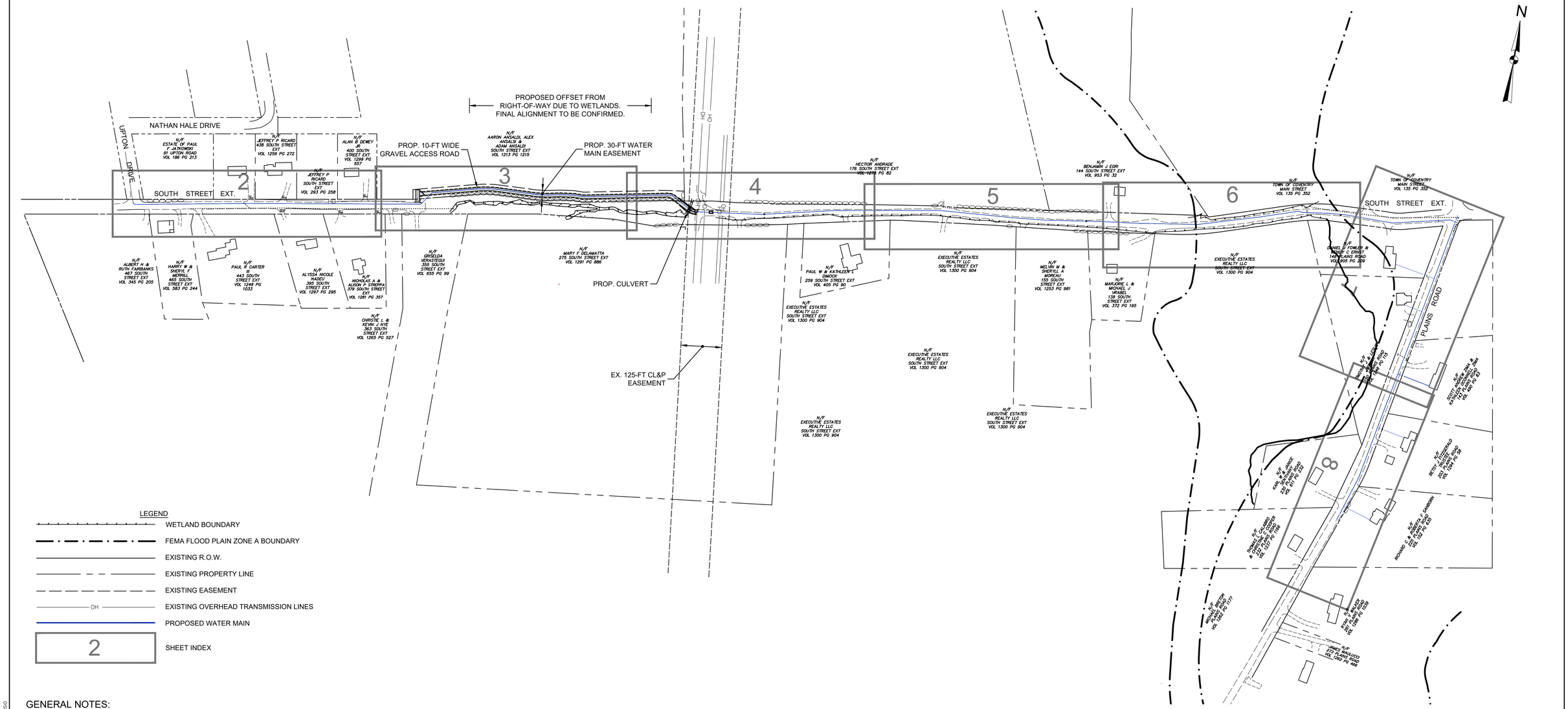
TWISTVIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



LEGEND

- WETLAND BOUNDARY
- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- OH — EXISTING OVERHEAD TRANSMISSION LINES
- PROPOSED WATER MAIN
- 2 — SHEET INDEX

GENERAL NOTES:

1. LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
2. WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONCIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING GLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
4. FIELD LOK GASKETS SHALL BE PLACED A MINIMUM 3 FULL PIPE LENGTHS FROM THE END OF ALL DEAD END LINES AND BLOWOFFS. AT ALL CHANGES OF DIRECTION, FIELD LOK GASKETS SHALL BE INSTALLED A MINIMUM OF 2 FULL PIPE LENGTHS FROM A FITTING OR AT THE DISCRETION OF THE ENGINEER/INSPECTOR.
5. ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.
6. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN THE FIELD. EXISTING SERVICES TO BE TIED OVER TO NEW MAIN WHERE SHOWN.
7. WATER MAIN SHOWN AS FIELD LOCATED PER CWC PAINTMARKS. ALL OTHER UNDERGROUND UTILITIES TAKEN FROM MAPPING PROVIDED BY THE UTILITY COMPANIES SERVING THIS REGION. ANY PAINT MARK LINETYPE IN DRAWING HAS BE FIELD LOCATED BASE ON PAINTMARKS BY "CALL BEFORE YOU DIG".
8. THE APPROXIMATE PROPERTY LINES WERE DETERMINED FROM ASSESSORS NAPS AND LIMITED FIELD MEASUREMENTS. PROPERTY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE AND TO SHOW ADJACENT PROPERTY OWNERS ONLY.

SOURCE:

1. THE BASE PLAN WAS OBTAIN FROM ELECTRONIC FILES PREPARED BY BENESCH AND PREPARED FOR THE TOWN OF COVENTRY ENTITLED "RIGHT OF WAY & TOPOGRAPHY SURVEY, SOUTH STREET EXTENSION", DATED: 1/21/2025 ORIGINAL SCALE: 1"=40', DRAWING NO.: SV 01, CAD FILE: 70977 SURVEY.DWG.PDF.
2. HORIZONTAL DATUM: NAD83 VERTICAL DATUM: NAVD88
3. PROPOSED PRELIMINARY WATER MAIN ALIGNMENT TO BE COORDINATED WITH TOWN ON COVENTRY AND THE CONNECTICUT WATER COMPANY STANDARDS.
4. LOCATION OF PROPOSED RESIDENTIAL SERVICES TO BE CONFIRMED.
5. FEMA FLOOD PLAIN ZONE A BOUNDARY DIGITIZED FROM FIRM FLOOD INSURANCE RATE MAP, TOWN OF COVENTRY, CONNECTICUT, TOLLAND COUNTY. COMMUNITY PANEL NUMBER 090110 0015 C. EFFECTIVE DATE JUNE 4, 1980.

PERMIT DRAWING
NOT FOR CONSTRUCTION

0 75' 150' 300' 450'
SCALE IN FEET 1" = 150'

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

APPROVED:

OVERALL SITE PLAN AND SHEET INDEX

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-1
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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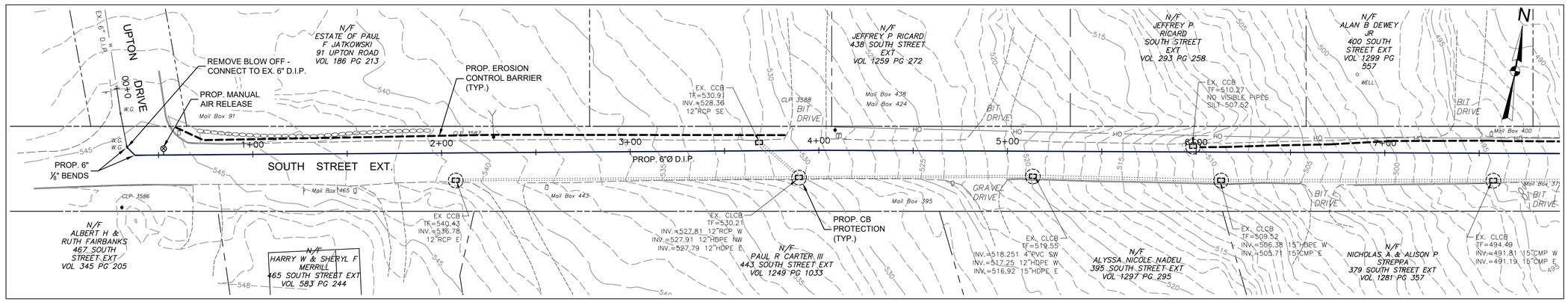

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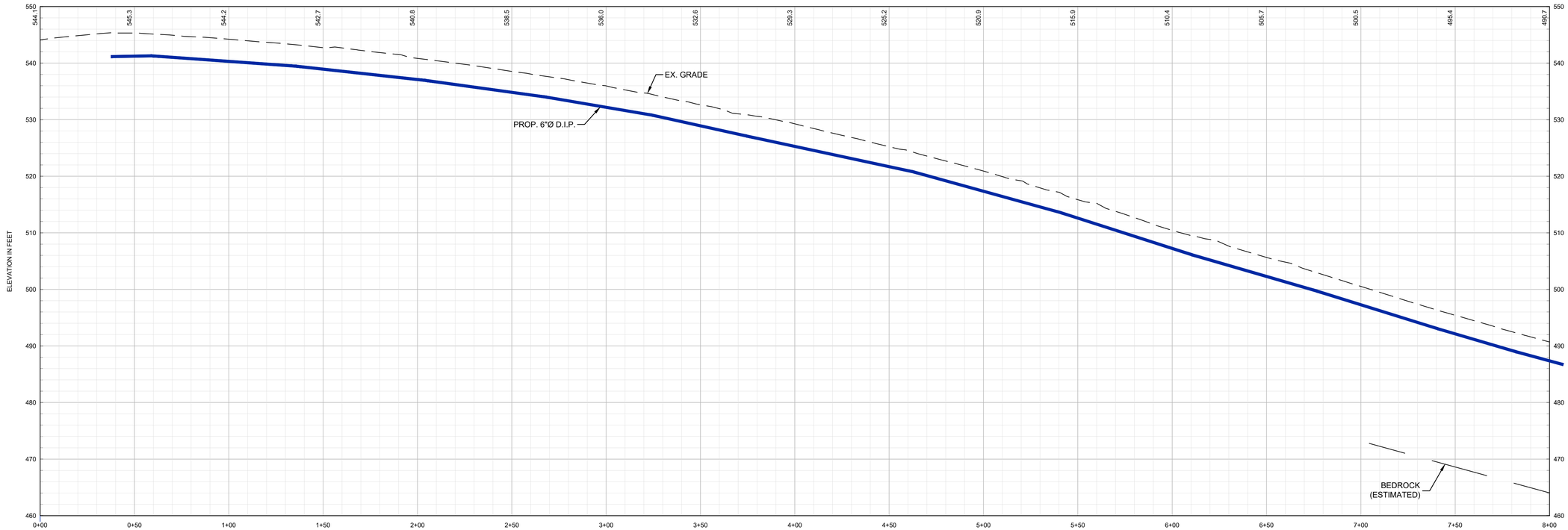
SCALE IN FEET 1" = 30'



VERTICAL SCALE IN FEET 1" = 10'

0 5' 10' 20'

0 15' 30' 60'

HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 0+00 TO 8+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-2
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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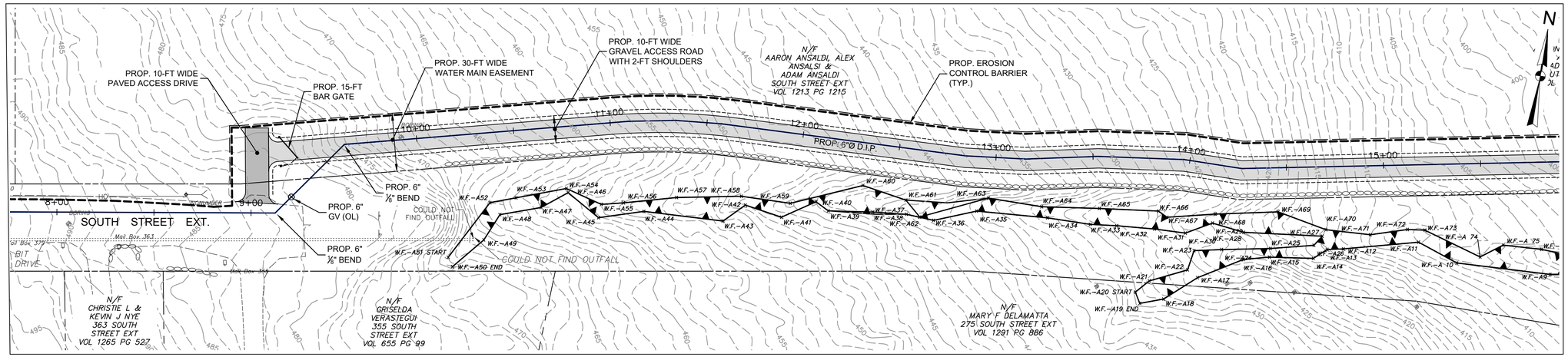

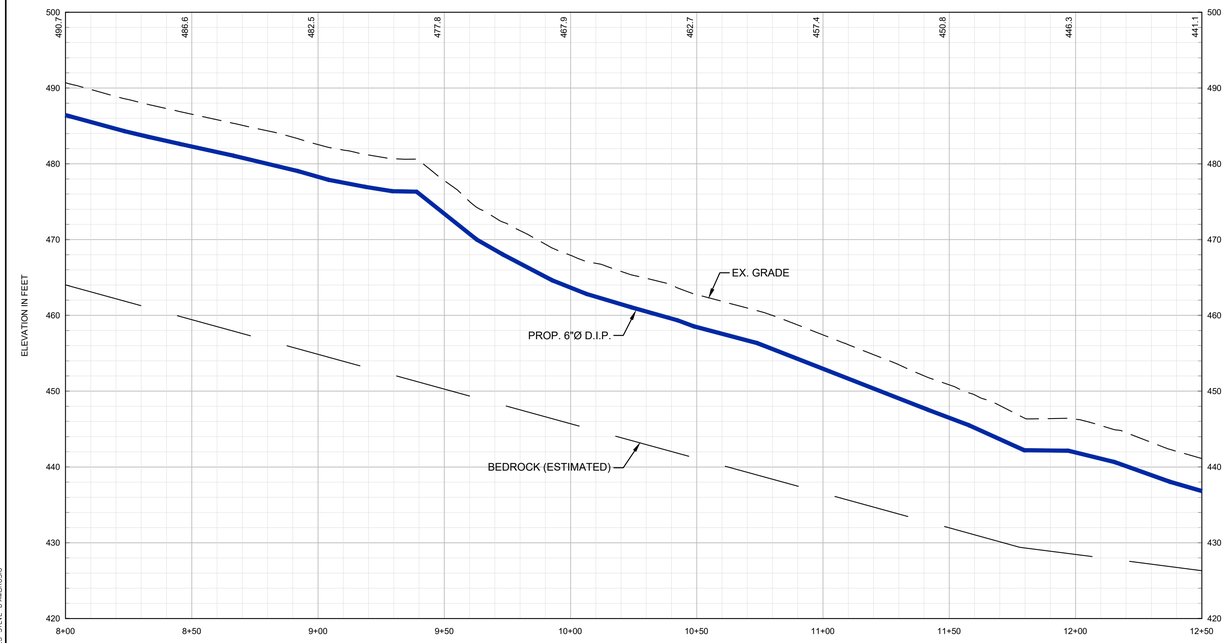

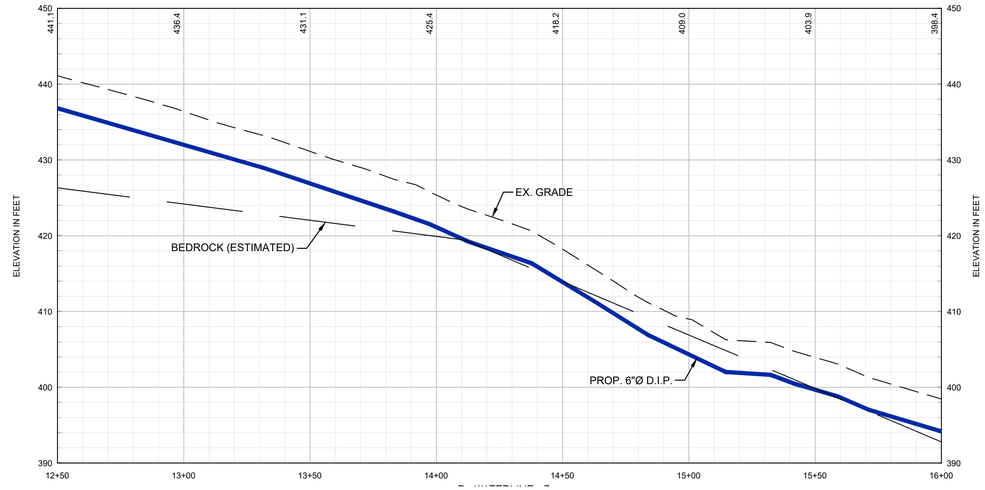

VERTICAL SCALE IN FEET 1" = 10'
0 5' 10' 20'
0 15' 30' 60'
HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- WETLAND BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR (535)
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE (x x)
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES (OH)
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE (W.G.)
- EXISTING WELL (WELL)
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 8+00 TO 16+00

PREPARED BY:
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PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-3
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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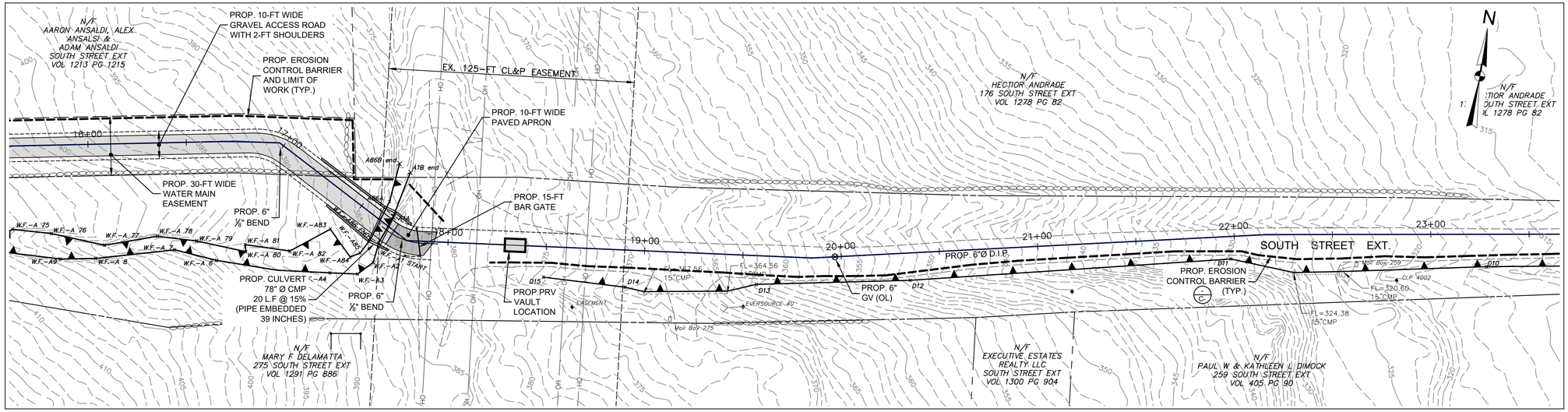

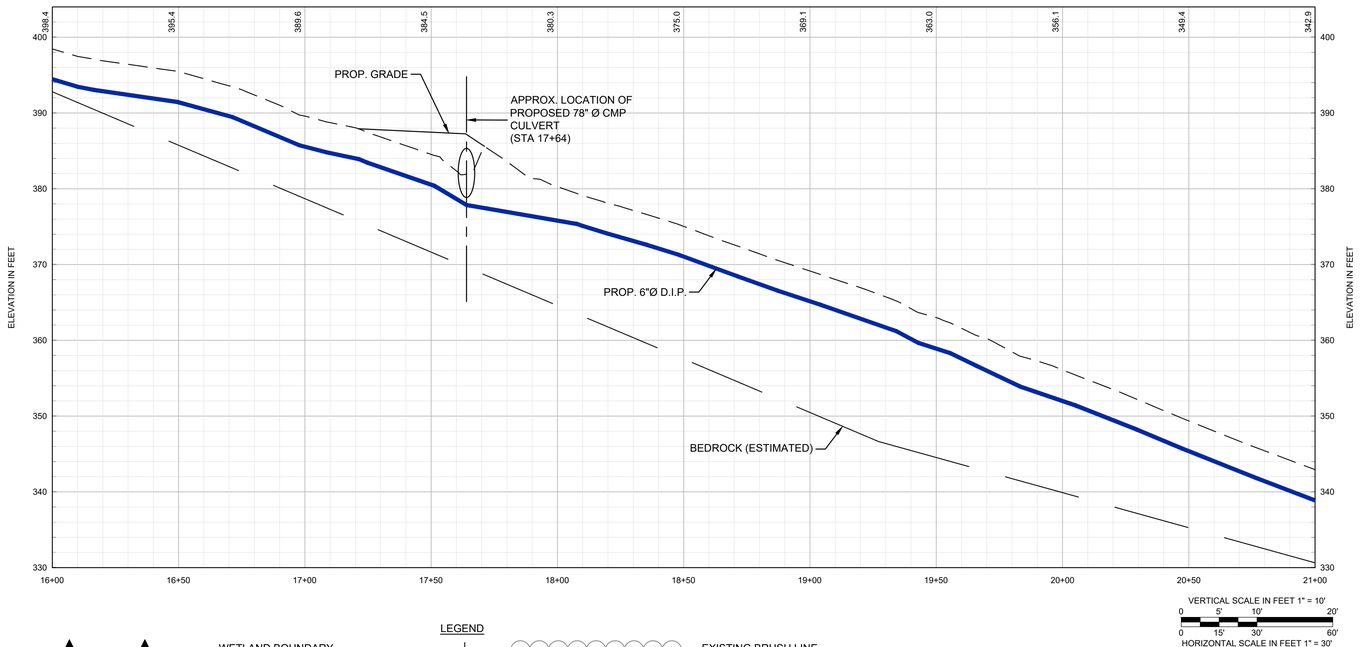

LEGEND

- WETLAND BOUNDARY
- EXISTING 1-FT CONTOUR
- 535 EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- x x EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- OH EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- W.G. EXISTING WATER GATE
- WELL. EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 16+00 TO 23+50

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-4
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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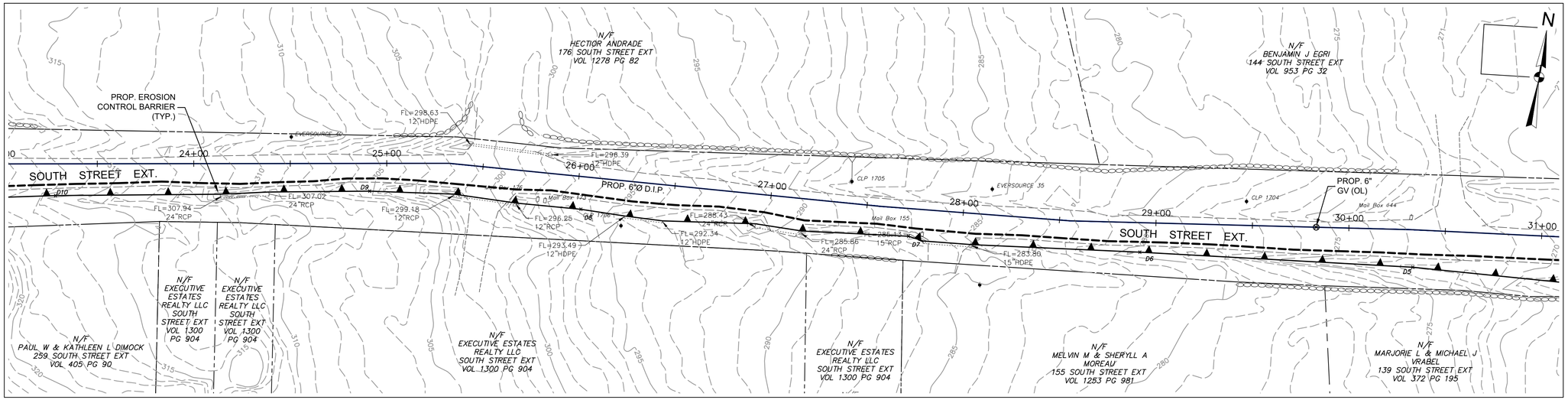
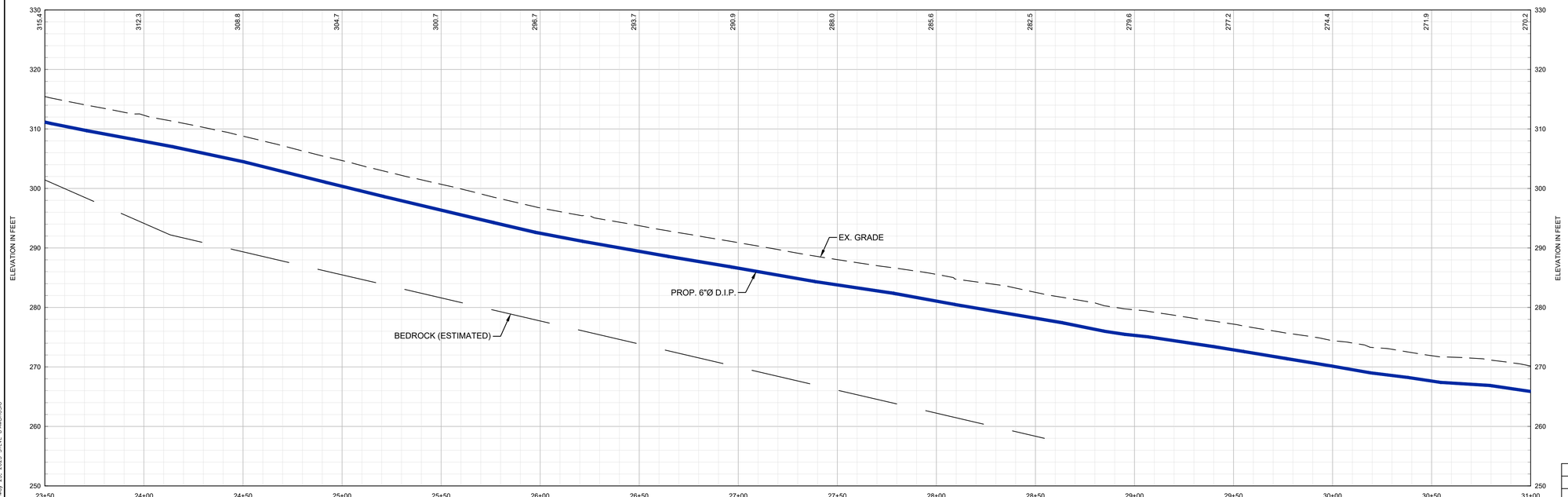


0 15' 30' 60' 90'
SCALE IN FEET 1" = 30'



VERTICAL SCALE IN FEET 1" = 10'
0 5' 10' 20'
0 15' 30' 60'
HORIZONTAL SCALE IN FEET 1" = 30'

LEGEND

- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- BEDROCK SURFACE
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

APPROVED:

NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 23+50 TO 31+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-5
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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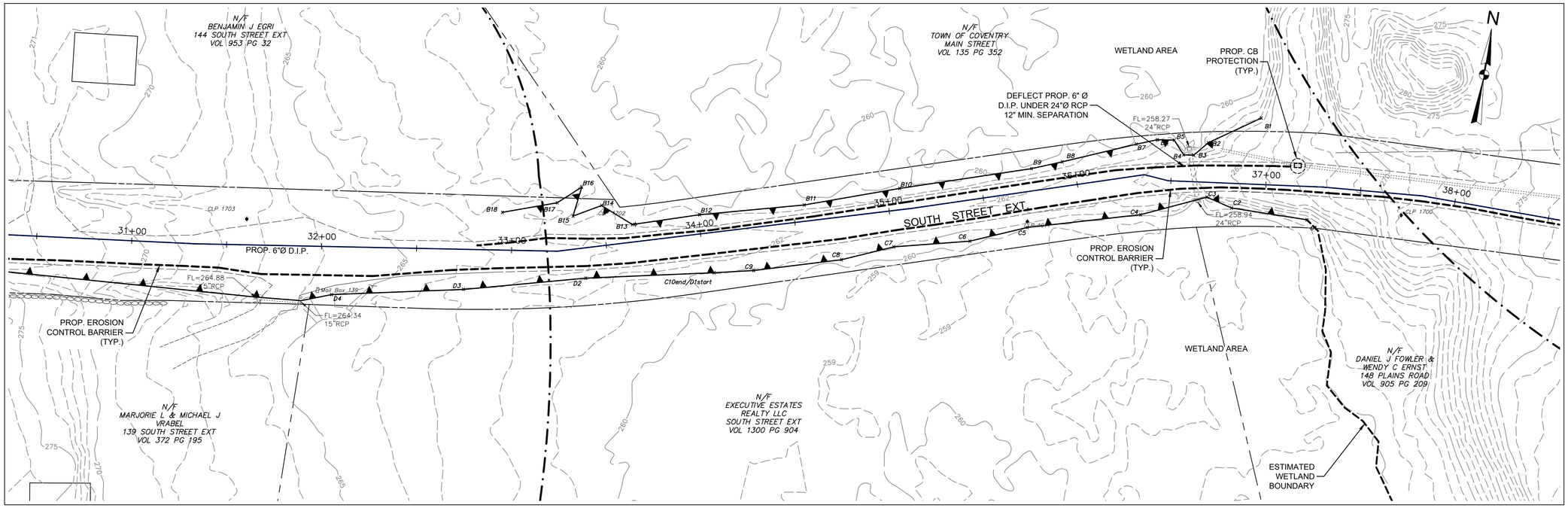

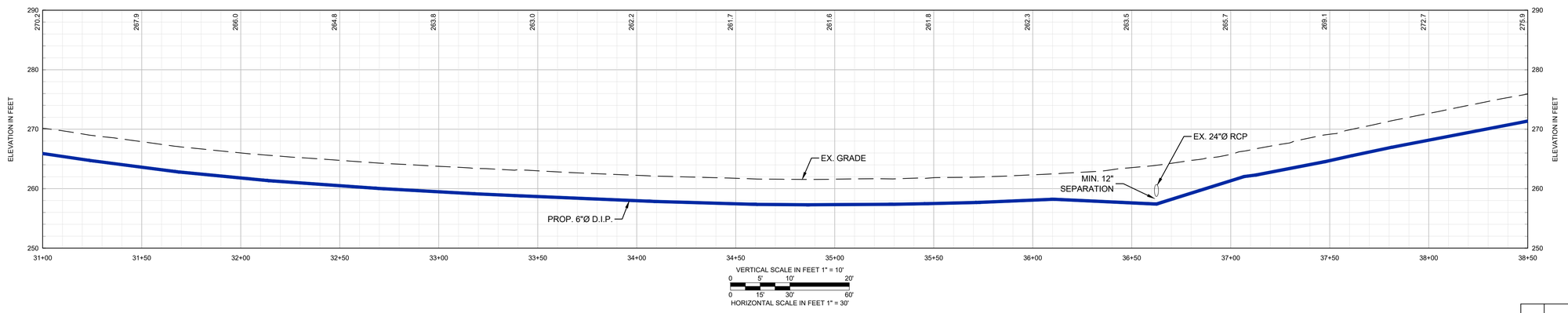

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR (535)
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE (x x)
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES (OH)
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE (W.G.)
- EXISTING WELL (WELL)
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
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APPROVED:

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SOUTH STREET EXT. PLAN AND PROFILE
STA 31+00 TO 38+50

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-6
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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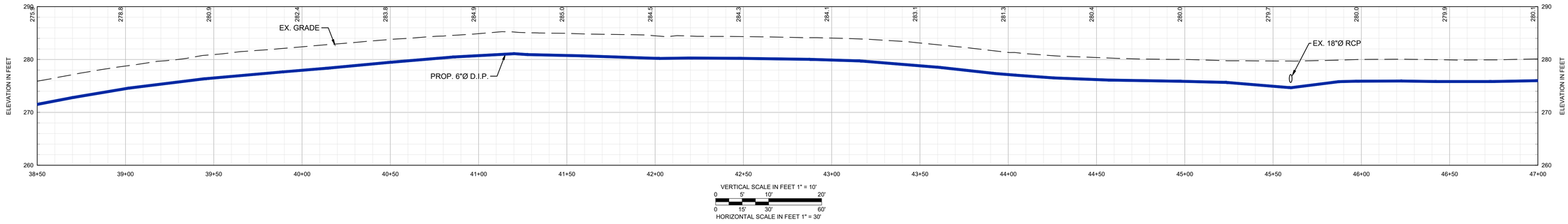

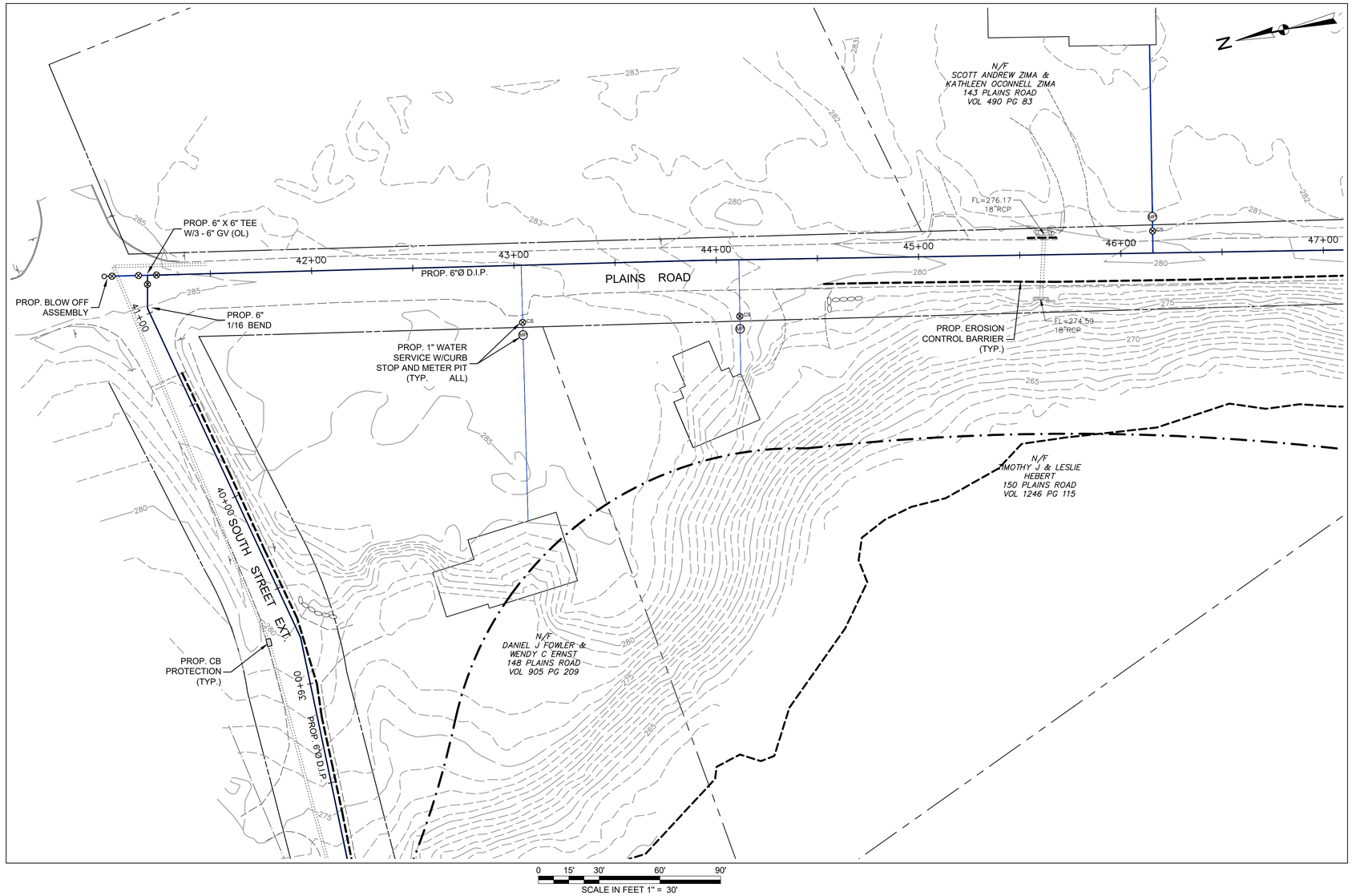

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

APPROVED:

SOUTH STREET EXT. PLAN AND PROFILE
STA 38+50 TO 46+50

PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-7
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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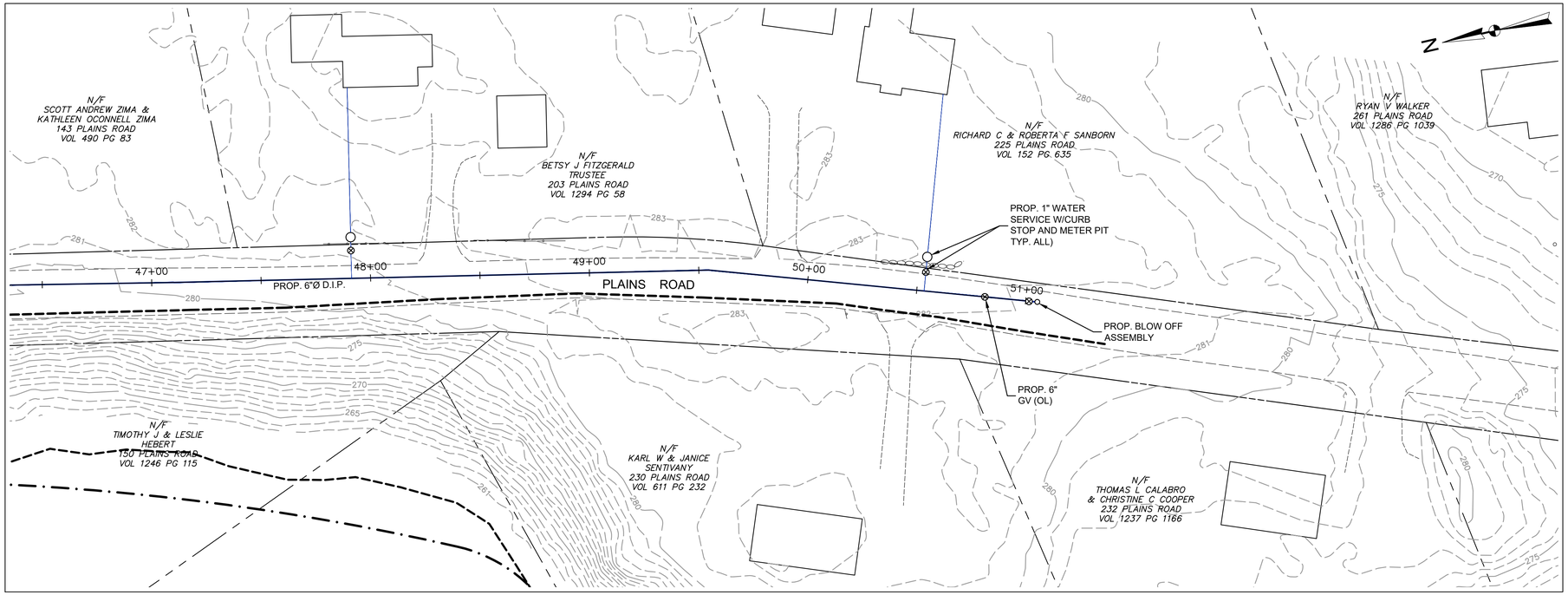

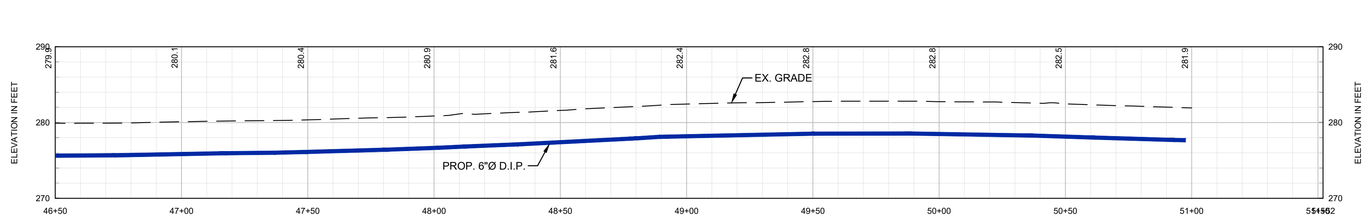

LEGEND

- FEMA FLOOD PLAIN ZONE A BOUNDARY
- EXISTING 1-FT CONTOUR
- 535 EXISTING 5-FT CONTOUR
- EXISTING R.O.W.
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING BRUSH LINE
- OH EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING STORM DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING UTILITY POLE
- W.G. EXISTING WATER GATE
- WELL. EXISTING WELL
- EXISTING MAILBOX
- PROPOSED WATER MAIN

PERMIT DRAWING
NOT FOR CONSTRUCTION

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1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

PLAINS ROAD PLAN AND PROFILE
STA 46+50 TO 52+00

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
TOWN OF COVENTRY
1712 MAIN STREET
COVENTRY, CONNECTICUT

PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	C-8
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. --	

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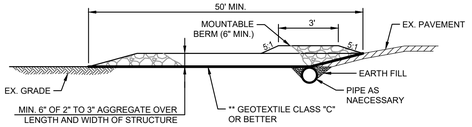
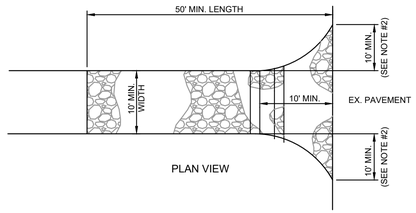


SECTION

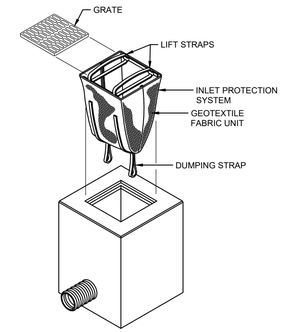


PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).
2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIGNED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM DIAMETER PIPE WILL BE REQUIRED.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

X / C-X STABILIZED CONSTRUCTION ENTRANCE
NTS

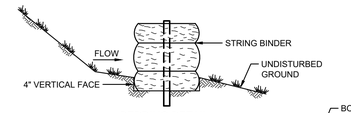


INSTALLATION AND MAINTENANCE GUIDELINES

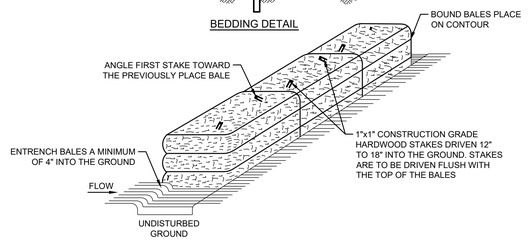
INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE GEOTEXTILE FABRIC UNIT SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE GEOTEXTILE FABRIC UNIT. IF THE CONTAINMENT AREA IS MORE THAT 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

X / C-X CATCH BASIN SEDIMENTATION PROTECTION
NTS

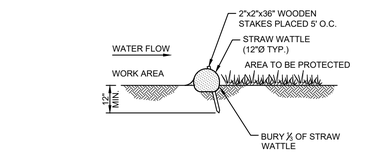


BEDDING DETAIL



ANCHORING DETAIL

X / C-X STRAW BALE SILT FENCE BARRIER
NTS



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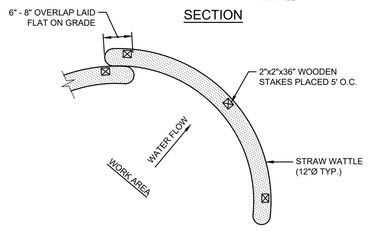
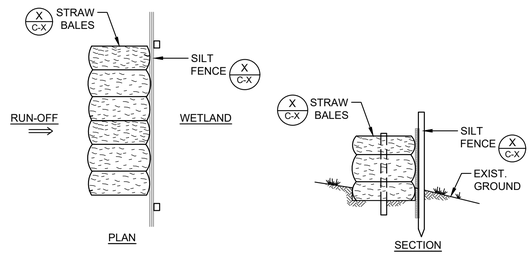


PLAN

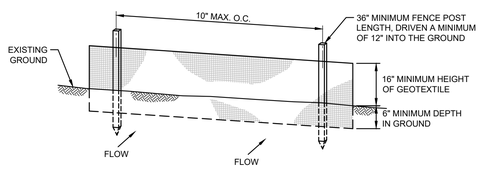
X / C-X STRAW WATTLE FOR SEDIMENT CONTROL
NTS



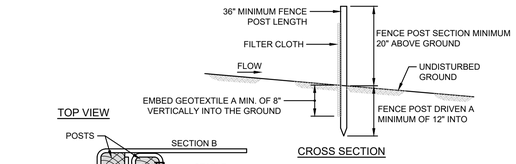
PLAN

SECTION

X / C-X COMBINATION SILT FENCE / STRAW BALE EROSION CONTROL BARRIER
NTS



PERSPECTIVE VIEW



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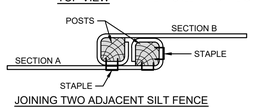

JOINING TWO ADJACENT SILT FENCE SECTIONS

X / C-X SILT FENCE
NTS

SEDIMENT AND EROSION CONTROL NOTES:

1. SEDIMENT AND EROSION CONTROLS SHOWN ON DRAWINGS DEPICT THE MINIMUM MEASURES REQUIRED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFIRMING ADEQUACY OF PROPOSED EROSION AND SEDIMENT CONTROL MEASURES AND PREPARATION OF THEIR CONTRACTOR'S EROSION CONTROL PLAN.
2. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
3. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE SEDIMENT AND EROSION CONTROL PLAN PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES UNTIL THE AREAS DRAINING TO THEM ARE FINAL STABILIZED. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED. CONDUCT INSPECTIONS AND REPORTING IN ACCORDANCE WITH ALL PERMITS.
4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN, AT NO ADDITIONAL COST TO THE OWNER, ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY FOR PERMIT COMPLIANCE BY THE CONTRACTOR, THE OWNER AND/OR THEIR REPRESENTATIVES, OR BY FEDERAL/STATE/LOCAL GOVERNMENT INSPECTORS.
5. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS AND THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL".
6. A CONSTRUCTION ENTRANCE FOR THIS PROJECT IS MANDATORY TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC THOROUGHFARES. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARES. ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARES SHALL BE REMOVED IMMEDIATELY.
7. ALL SEDIMENT BASINS, TRAP EMBANKMENTS, SWALES, PERIMETER DIKES, AND PERMANENT SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES, WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. NO AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL BARRIER OR LIMIT OF WORK SHALL BE DISTURBED.
8. THE CONTRACTOR SHALL APPLY SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS, SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN 50 FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPTED FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
9. STOCKPILES WHICH HAVE NOT BEEN USED FOR 14 CALENDAR DAYS, SHALL BE STABILIZED THROUGH THE APPLICATION OF SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
10. ALL CATCH BASINS OR OTHER DRAIN INLETS WHICH MAY RECEIVE STORMWATER FROM DISTURBED AREAS SHALL BE PROVIDED WITH SUITABLE INLET PROTECTION CONSISTING OF AN OPEN–TOP FILTER FABRIC BAG THAT IS DESIGNED TO HANG UNDERNEATH A STORM GRATE TO FILTER SEDIMENT–LADEN STORMWATER. A SINGLE ROW OF HAY BALES AROUND THE INLET GRATE SHALL ALSO BE INSTALLED AND MAINTAINED UNTIL PAVING HAS BEEN COMPLETED.
11. EFFLUENT FROM DEWATERING OPERATIONS AND LINE FLUSHING DISCHARGES SHALL BE DIRECTED INTO FIBER MATS, NETTING, RIPRAP, OR NATURALLY OCCURRING GROUND COVER TO MINIMIZE EROSION. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE PUMPED EITHER TO SEDIMENT TANKS, SEDIMENT BAGS, AND/OR SEDIMENT TRAPS FOR SEDIMENT REMOVAL. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES AND PROJECT SPECIFICATIONS AND IN A MANNER THAT DOES NOT ADVERSELY AFFECT AREAS OUTSIDE OF THE LIMIT OF WORK.
12. TEMPORARY SEDIMENT TRAP(S) SHALL BE CLEANED OUT AND RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE HALF (1/2) THE DEPTH BETWEEN THE OUTLET CREST AND THE BOTTOM OF THE TRAP.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING, CALCIUM CHLORIDE, OR OTHER EFFECTIVE MEANS OF CONTROL.
14. ALL WASTE MATERIALS GENERATED AT THE SITE SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OR STORED IN A SECURELY–COVERED CONTAINER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. CONTAINER SHALL BE EMPTIED ON A REGULAR BASIS AND AS NECESSARY. NO CONSTRUCTION WASTE OR DEBRIS SHALL BE BURIED ONSITE.
15. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED AND WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
16. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN 24 HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS 48 HOURS AFTER THE END OF A RAINFALL, AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS OR OPENINGS.
17. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES THE CONTRACTOR SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS WHEN PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH OR OTHER ACCEPTABLE MEANS SHALL BE APPLIED TO DISTURBED AREAS.
18. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHIN (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CLEANED AND CONVERTED TO THEIR PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL. ALL STORM DRAINAGE STRUCTURES, SUMPS, AND PIPES SHALL BE CLEANED OF ALL SEDIMENTS PRIOR TO FINAL PAYMENT.

PERMIT DRAWING
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NO.	ISSUE/DESCRIPTION	BY	DATE
1	ISSUED FOR INLAND WETLANDS REVIEW	STD	05/23/25

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

SEDIMENT AND EROSION CONTROL DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-9
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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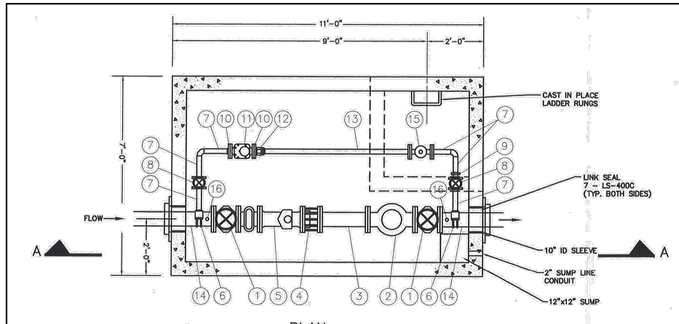
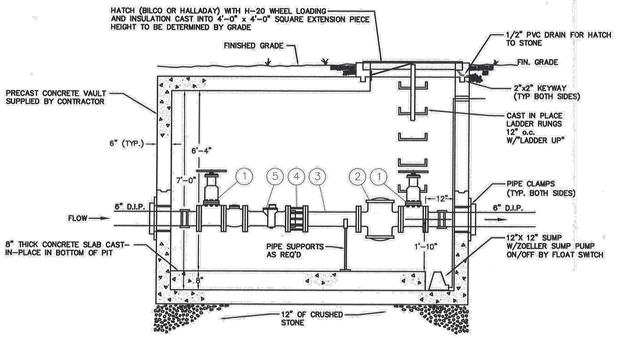
GZA-Z:\f7144-01\R20\CAD\V17\4.01 - DETAILS.DWG SAE DETAILS May 23, 2025 STEVE D'AMBROSIO



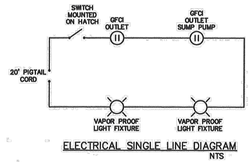
PLAN
SCALE: 3/8"=1'-0"



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

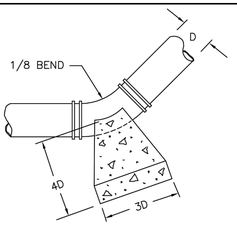
STANDARD 6" PRV PIT
NTS

PIPING MATERIAL LIST			
SYM	QTY	DESCRIPTION	MANUFACT. - MODEL
1	2	6" FLANGED GATE VALVE	
2	1	6" FLANGED PRESSURE REDUCING VALVE	CLA-VAL 90-01
3	1	6" FLG x FLG SPOOL PIECE 1'-10" LONG	
4	1	6" DISMANTLING JOINT	MUELLER
5	1	6" TURBO METER W/STRAINER	SENSUS W2000
6	2	6" PIPE SADDLE DOUBLE STRAP W/2" TAP	
7	6	2"x9" LONG BRASS THREADED NIPPLE	
8	2	2" THREADED GATE VALVE	
9	1	2" NPT TO COPPER ADAPTER	
10	1	METER FLANGE 2" MTR X 2" IPT F	FORD No.7F
11	1	2" METER	SENSUS TURBO METER W-160
12	1	LOK-PAK METER COUPLING	FORD No. CF34-77
13	2	2" TYPE "L" COPPER PIPE CUT AS REQ'D	
14	1	6" FLG x PE SPOOL PIECE CUT AS REQ'D	
15	1	2" FLANGED PRESSURE REDUCING VALVE	CLA-VAL 90-01
16	2	1/4" GAUGE PORT	

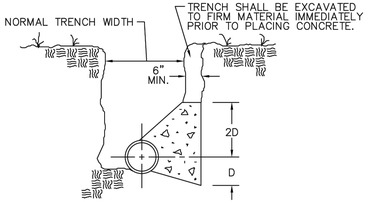


ELECTRICAL SINGLE LINE DIAGRAM
NTS

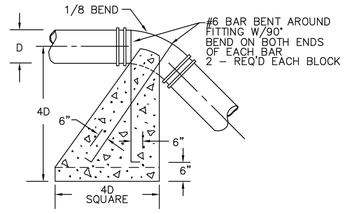
GENERAL NOTES:
1. LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
2. WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING GLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
4. ALL WATER MAIN SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE EXCEPT WHERE NOTED.
5. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN FIELD



HORIZONTAL THRUST BLOCK DETAIL (PLAN VIEW)



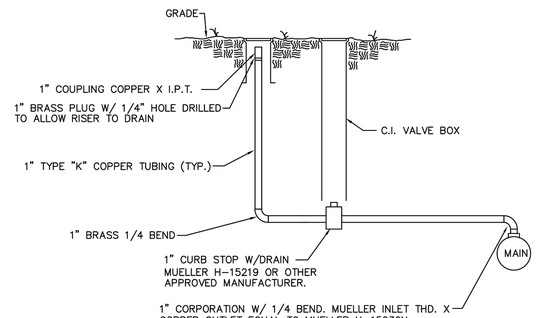
HORIZONTAL THRUST BLOCK DETAIL



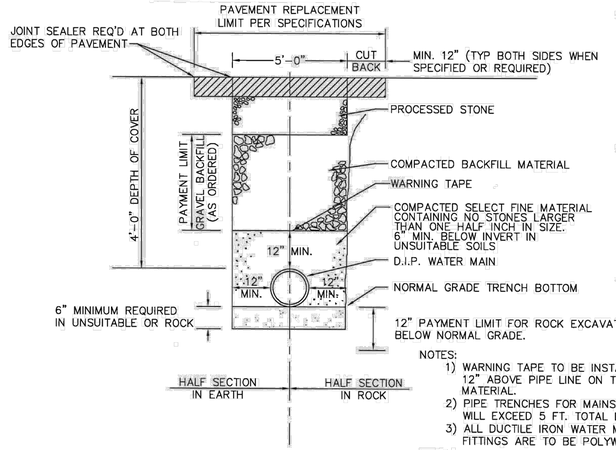
VERTICAL THRUST BLOCK DETAIL

NOTES:
1) 3000 PSI CONCRETE TO BE USED FOR THRUST BLOCKS.
2) D-DIAMETER OF WATER MAIN.
3) MEGA-LUG RESTRAINING GLANDS SHALL BE USED ON ALL MJ FITTINGS.
4) SOLID CONCRETE BLOCKS WITH WEDGES WILL BE PERMITTED ON MAINS UP TO 10" ALL 12" OR LARGER SHALL BE POURED THRUST BLOCKS.
5) LOCKING GASKETS SHALL BE INSTALLED A MIN. 2 FULL PIPE LENGTHS ON EITHER SIDI OF A BEND.

THRUST BLOCK DETAILS
NTS



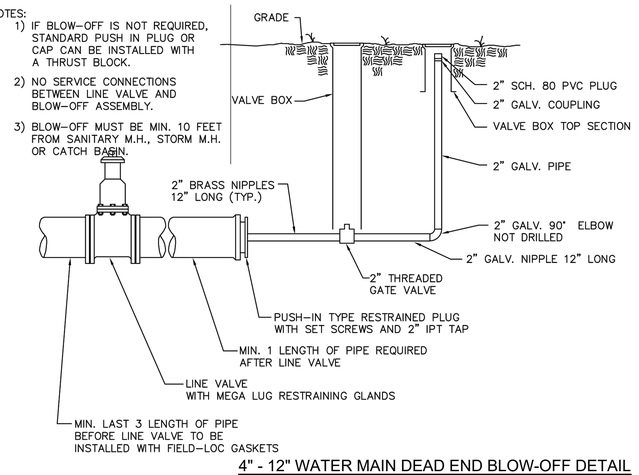
MANUAL AIR RELEASE VALVE
NTS



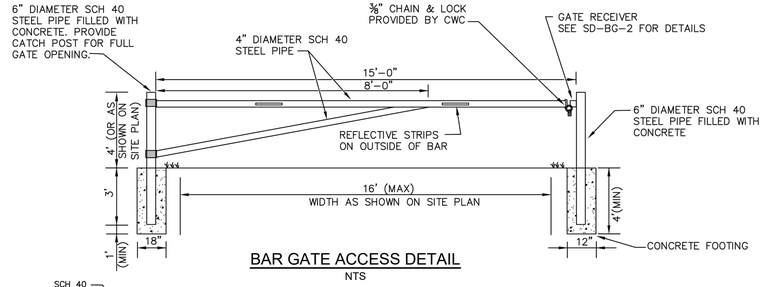
NOTES:
1) WARNING TAPE TO BE INSTALLED A MIN. OF 12" ABOVE PIPE LINE ON TOP OF SELECT FINE MATERIAL.
2) PIPE TRENCHES FOR MAINS ABOVE 12" DIA. WILL EXCEED 5 FT. TOTAL DEPTH.
3) ALL DUCTILE IRON WATER MAIN AND FITTINGS ARE TO BE POLYWRAPPED.

WATERMAIN INSTALLATION DETAIL
(TYPICAL TRENCH AND PAYMENT LIMITS)
NTS

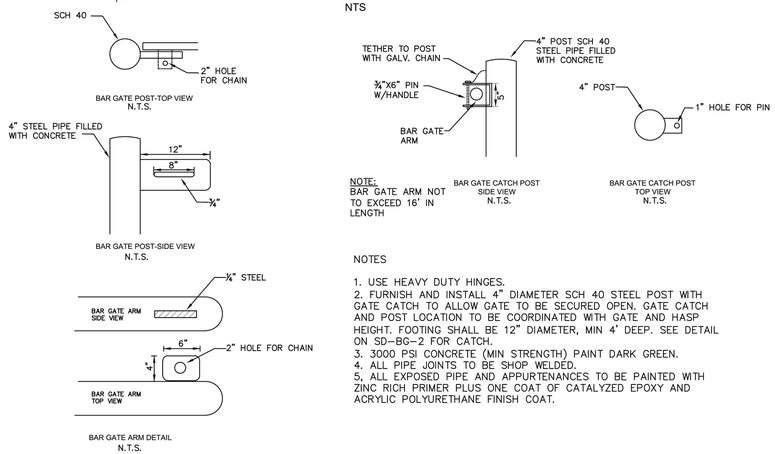
NOTES:
1) IF BLOW-OFF IS NOT REQUIRED, STANDARD PUSH IN PLUG OR CAP CAN BE INSTALLED WITH A THRUST BLOCK.
2) NO SERVICE CONNECTIONS BETWEEN LINE VALVE AND BLOW-OFF ASSEMBLY.
3) BLOW-OFF MUST BE MIN. 10 FEET FROM SANITARY M.H., STORM M.H. OR CATCH BASIN.



4" - 12" WATER MAIN DEAD END BLOW-OFF DETAIL
NTS



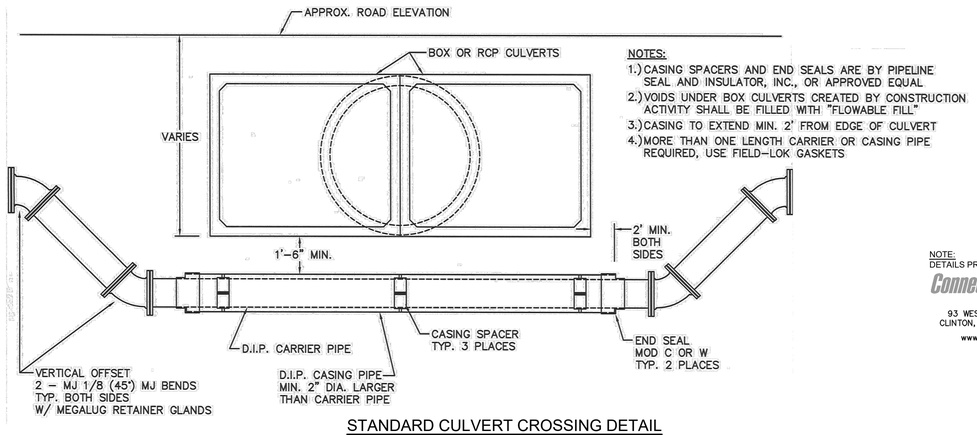
BAR GATE ACCESS DETAIL
NTS



NOTE:
BAR GATE ARM NOT TO EXCEED 16' IN LENGTH

NOTES
1. USE HEAVY DUTY HINGES.
2. FURNISH AND INSTALL 4" DIAMETER SCH 40 STEEL POST WITH GATE CATCH TO ALLOW GATE TO BE SECURED OPEN. GATE CATCH AND POST LOCATION TO BE COORDINATED WITH GATE AND HASP HEIGHT. FOOTING SHALL BE 12" DIAMETER, MIN 4' DEEP. SEE DETAIL ON SD-BG-2 FOR CATCH.
3. 3000 PSI CONCRETE (MIN STRENGTH) PAINT DARK GREEN.
4. ALL PIPE JOINTS TO BE SHOP WELDED.
5. ALL EXPOSED PIPE AND APPURTENANCES TO BE PAINTED WITH ZINC RICH PRIMER PLUS ONE COAT OF CATALYZED EPOXY AND ACRYLIC POLYURETHANE FINISH COAT.

BAR GATE POST & CATCH DETAIL
NTS



NOTES:
1.) CASING SPACERS AND END SEALS ARE BY PIPELINE SEAL AND INSULATOR, INC., OR APPROVED EQUAL
2.) VOIDS UNDER BOX CULVERTS CREATED BY CONSTRUCTION ACTIVITY SHALL BE FILLED WITH "FLOWABLE FILL"
3.) CASING TO EXTEND MIN. 2' FROM EDGE OF CULVERT
4.) MORE THAN ONE LENGTH CARRIER OR CASING PIPE REQUIRED, USE FIELD-LOK GASKETS

STANDARD CULVERT CROSSING DETAIL
NTS

NOTE:
DETAILS PROVIDED BY
ConnecticutWater
93 WEST MAIN STREET
CLINTON, CT 06413-1600
www.ctwater.com

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WATER MAIN EXTENSION
SOUTH STREET EXT. AND PLAINS ROAD
COVENTRY, CONNECTICUT

DETAILS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. www.gza.com		TOWN OF COVENTRY 1712 MAIN STREET COVENTRY, CONNECTICUT	
PROJ MGR: RJD	REVIEWED BY: NLR	CHECKED BY: DMB	FIGURE C-10
DESIGNED BY: RJD	DRAWN BY: EDM	SCALE: AS SHOWN	
DATE: MAY 15, 2025	PROJECT NO. 05.0047144.01	REVISION NO. 1	

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GZA-Z:\47144-01\R&D\CAD\47144-01 - DETAILS.DWG WATER DETAILS May 23, 2025 STEVE D'AMBROSIO

Lindsay Beutler

From: Aaron Ansaldi <aaron@Ansaldiconstruction.com>
Sent: Thursday, June 12, 2025 3:48 PM
To: Todd Penney; Lindsay Beutler
Subject: (EXTERNAL MESSAGE)Plains Road Water Main Extension project authorization

Dear Coventry Inland Wetlands Agency.
On behalf of Alex Ansaldi, Adam Ansaldi, and myself; we hereby authorize the Town of Coventry Engineering Department to submit the Plains Road Water Main Extension Project Coventry Wetlands Permit for the Upland Review Area activity associated with the water main construction activities located on our property.

We have been working with the Town to route the water main onto our parcel to minimize the environmental disturbance associated with its installation.

Aaron Ansaldi
The Andrew Ansaldi Co.
186 Bidwell Street
Manchester, CT 06040
(860) 649-5249 office
(860) 209-5499 mobile
(860) 649-9078 fax
www.ansaldiconstruction.com

NORTH CENTRAL CONSERVATION DISTRICT, INC.
AVON ▪ BLOOMFIELD ▪ BOLTON ▪ BRISTOL ▪ BURLINGTON ▪ CANTON ▪ COVENTRY ▪ EAST GRANBY ▪ EAST WINDSOR ▪ EAST HARTFORD ▪ ELLINGTON
ENFIELD ▪ FARMINGTON ▪ GLASTONBURY ▪ GRANBY ▪ HARTFORD ▪ MANCHESTER ▪ PLAINVILLE ▪ SIMSBURY ▪ SOMERS ▪ SOUTH WINDSOR
STAFFORD ▪ SUFFIELD ▪ WEST HARTFORD ▪ WETHERSFIELD ▪ TOLLAND ▪ VERNON ▪ WILLINGTON ▪ WINDSOR ▪ WINDSOR LOCKS

Date: June 18, 2025

To: Lindsay Beutler, Environmental Planner/Wetlands Agent, Town of Coventry

From: Alyssa Barroso, Natural Resource Specialist, Reviewer
Joanna Shapiro, Executive Director, Editor

Re: South Street Ext. and Plains Road Water Main Extension Project, Coventry, Connecticut 06238

This letter is limited to a review of the plans, wetland application, and related materials for the South Street Ext. and Plains Road water main extension project.

Introduction & Background

District staff inspected the site on June 17th, 2025 and reviewed the survey sheets prepared by Alfred Benesch & Company, titled “Right of Way & Topographic Survey”, dated August 2024 and revised January 21, 2025, and the plans prepared by GZA titled "Water Main Extension, South Street Ext. and Plains Road, Coventry, Connecticut”, dated May 15, 2025 and revised May 23, 2025, in addition to current and historical aerial, topographic, soils, and other related maps of the site.

There has previously been substantial chloride contamination of the residential wells in this area due to improper storage of road salt, necessitating this project. The proposed work includes installing a six-inch water main, extending from the existing system on Upton Drive, east along South Street Extension and south at the intersection with Plains Road, in addition to a 10-foot-wide gravel access road in the forested section to join the two dead-ends of South Street Extension. During the site walk on June 17th, staff noted that the proposed location of the access road is very significantly colonized by invasive vegetation and does not appear to be a high-quality natural resource. Without the access road, driving from one dead-end of South Street Extension to the other took staff roughly 10 minutes.

According to the wetlands permitting application submitted by GZA on May 23, 2025, the installation of the water main and the gravel access road will result in about 24,815 square feet (0.57 acres) of permanent impact to the URA of the unnamed watercourse (Series A flags). The installation of the 78-inch diameter CMP will result in approximately 200 square feet (0.005 acres) of permanent direct impact to the unnamed watercourse.

There are many attributes of this application that mitigate impacts, including use of a proposed culvert that spans 1.2 times the bankfull width of the watercourse and an openness ratio of >0.82, both recommended by the CT DEEP Stream Crossing Guidelines. Additionally, directional drilling, a trenchless construction method that minimizes surface disturbance, will be used to install the water line beneath the intermittent stream. The 78-inch culvert will be installed such that the grade and streambed composition remain the same as pre-construction. It is clear that best management practices (BMPs) were well-researched and proposed by the applicant.

Soils - Based on the Natural Resources Conservation Service Web Soil Survey, the South Street Extension section of the project is mainly made up of:

Map Unit Code	Map Unit Name	Slope (%)	Drainage Class	Erosion Hazard	Amount of Project Area (%)	Notes
12	Raypol silt loam	0-3	Poorly drained	Slight	5.20%	
17	Timakwa and Natchaug soils	0-2	Very poorly drained	Slight	8.30%	
50B	Sutton fine sandy loam	3-8	Moderately well drained	Moderate	16.60%	
60C	Canton and Charlton fine sandy loams	8-15	Well drained	Moderate	4.40%	
61C	Canton and Charlton fine sandy loams	8-15	Well drained	Moderate	20.40%	very stony
62D	Canton and Charlton fine sandy loams	15-35	Well drained	Severe	2.20%	extremely stony
84B	Paxton and Montauk fine sandy loams	3-8	Well drained	Moderate	5.90%	
84C	Paxton and Montauk fine sandy loams	8-15	Well drained	Moderate	5.60%	
85C	Paxton and Montauk fine sandy loams	8-15	Well drained	Moderate	3.10%	very stony
701A	Ninigret fine sandy loam	0-3	Moderately well drained	Slight	1.70%	

The Plains Road section of the project is mainly made up of:

Map Unit Code	Map Unit Name	Slope (%)	Drainage Class	Erosion Hazard	Amount of Project Area (%)	Notes
34A	Merrimac fine sandy loam	0-3	Somewhat excessively drained	Slight	14.80%	
38E	Hinckley loamy sand	15-45	Excessively drained	Moderate	11.70%	

Observations & Recommendations

Though there will be some permanent impacts to both the URA and to the intermittent watercourse, the site plan and narrative demonstrate the utilization of BMPs and care being taken to reduce resource impacts. Because of the public health need to ensure safe drinking water to these households, those impacts are compulsory.

- The contractor and wetland agent should ensure that all BMPs described and depicted in the permit application materials submitted on May 25, 2025 by GZA are utilized in the field.
- Ensure all erosion and sedimentation controls are correctly installed and maintained throughout the duration of the project, until full stabilization is achieved. The proper installation and maintenance of E&S controls is critical to reducing impacts.
- Generally, minimizing clearing and re-vegetating any temporarily cleared areas with suitable native plants is recommended to reduce resource impacts.
- Ensure work is done during a period of low-flow and minimal wildlife activity to reduce ecosystem disruption. Late summer to fall are typically the optimal times to do in-stream work.

Conclusion

Based on the District's assessment of the site and review of project plans, this work is necessary and the plans show intent to use best management practices. Incorporation of the bulleted recommendations above will further reduce impacts to both on and off-site wetland and watercourse resources.

Thank you for the opportunity to comment.

Sincerely,

Alyssa Barroso, Natural Resource Specialist, Reviewer

Joanna Shapiro, Executive Director, Editor