

March 15, 2022

Melanie Bachman, Esq.
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

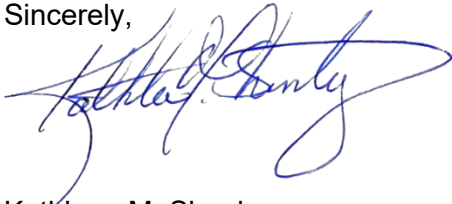
Re: Petition No. 1484 – Modifications to Gales Ferry Substation

Dear Ms. Bachman,

This letter provides an original and 15 copies of the response to the requests for information listed below:

Responses to CSC-01 Interrogatories, dated February 22, 2022
CSC-01 through CSC-013.

Sincerely,



Kathleen M. Shanley
Manager – Transmission Siting

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 1:

What is the total estimated cost of the project? Of this total, what costs would be regionalized, and what costs would be localized? Estimate the percentages of the total cost that would be borne by Eversource ratepayers, Connecticut ratepayers, and the remainder of New England (excluding Connecticut) ratepayers, as applicable

Response:

The total estimated cost of the project is approximately \$36.0 million. Of the total, \$22.9 million is associated with Distribution facilities. Eversource anticipates that the remaining costs to New England customers will be regionalized pending the final determination of ISO-New England's Schedule 12 C review.

The Company anticipates the following overall allocations for the total cost:

- Connecticut Eversource customers: 70.6%
- Other Connecticut customers: 2.1%
- Other New England customers: 27.3%

The estimated allocations are based on 2021 actual loads.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 2:

Identify all other permits required to perform the proposed work

Response:

The list of other permits required to perform the proposed work is as follows:

Connecticut Public Utilities Regulatory Authority

- Petition for the Approval of Method and Manner of Construction and Permission to Energize the Project

United States Army Corps of Engineers

- Section 10 Rivers and Harbors Act and Section 404 Clean Water Act – Self Verification Notice for activities within wetlands.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 3:

Referencing Petition p. 16, were there any comments from the Town of Ledyard or property owners? If so, what were their concerns, and how were these concerns addressed?

Response:

There were no comments or concerns from the Town of Ledyard or property owners. Outreach to the municipalities and property owners will continue throughout the Project to address any concerns that may arise.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 4:

Has there been any flooding of the substation in past storm events? Where is the 500-year flood zone in relation to the substation drawing? What if any flood mitigation measures would be installed in west edge of the substation?

Response:

Eversource has no records indicating that there has been any flooding of the substation in past storm events. Based on the elevation of the substation, surrounding topography and the location of the limits of the 100-year flood plain, flooding of the substation is not expected. Based on a review of the Flood Insurance Rate Map, the 500-year flood zone has not been established for the location of the substation. No flood mitigation measures are necessary or proposed for the western edge of the substation or other areas along the perimeter of the substation.

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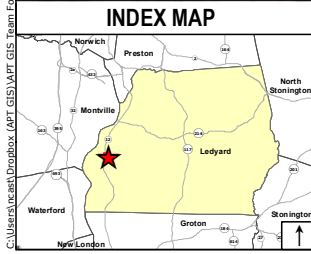
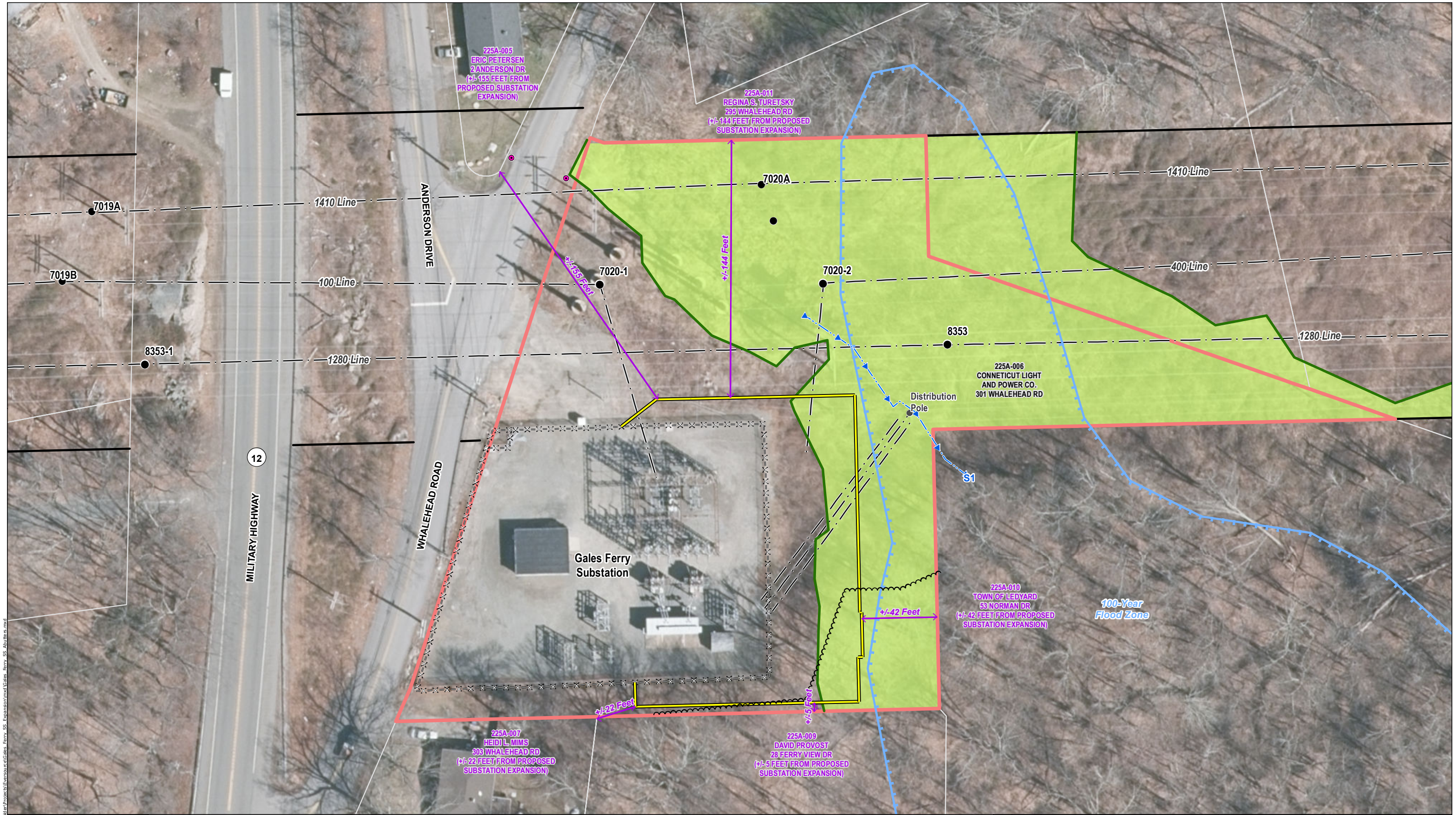
Request from: Connecticut Siting Council

Question 5:

Provide a drawing with distances from the re-designed substation to abutting properties

Response:

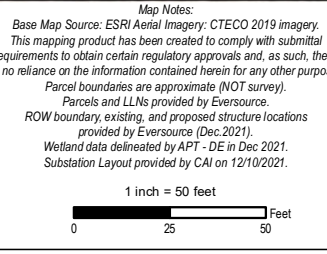
A drawing with distances from the re-designed substation to abutting properties is attached.



- Legend**
- Existing Structure
 - Existing Right-of-Way (ROW)
 - - - Overhead Eversource Line
 - X=X=X Existing Substation Fence
 - Proposed Substation Expansion Area/Fence Line
 - ↔ Distances to Abutting Properties
 - Culvert

- Existing Tree Line
- Delineated Intermittent Watercourse
- Delineated Wetland Boundary Outline
- Field Delineated Wetland
- FEMA 100-Year Flood Zone
- Eversource Owned Property
- Parcel Boundary

Map Notes:
 Base Map Source: ESRI Aerial Imagery; CTECO 2019 imagery.
 This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.
 Parcel boundaries are approximate (NOT survey).
 ROW boundary, existing, and proposed structure locations provided by Eversource (Dec. 2021).
 Wetland data delineated by APT - DE in Dec 2021.
 Substation Layout provided by CAI on 12/10/2021.



NO.	DATE	REVISIONS

EVERSOURCE ENERGY

**Gales Ferry Substation Expansion Project
Distances to Abutting Properties**

Ledyard, CT
Map Sheet 1 of 1
February, 2022

ALL-POINTS TECHNOLOGY CORPORATION

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Date Filed: March 15, 2022

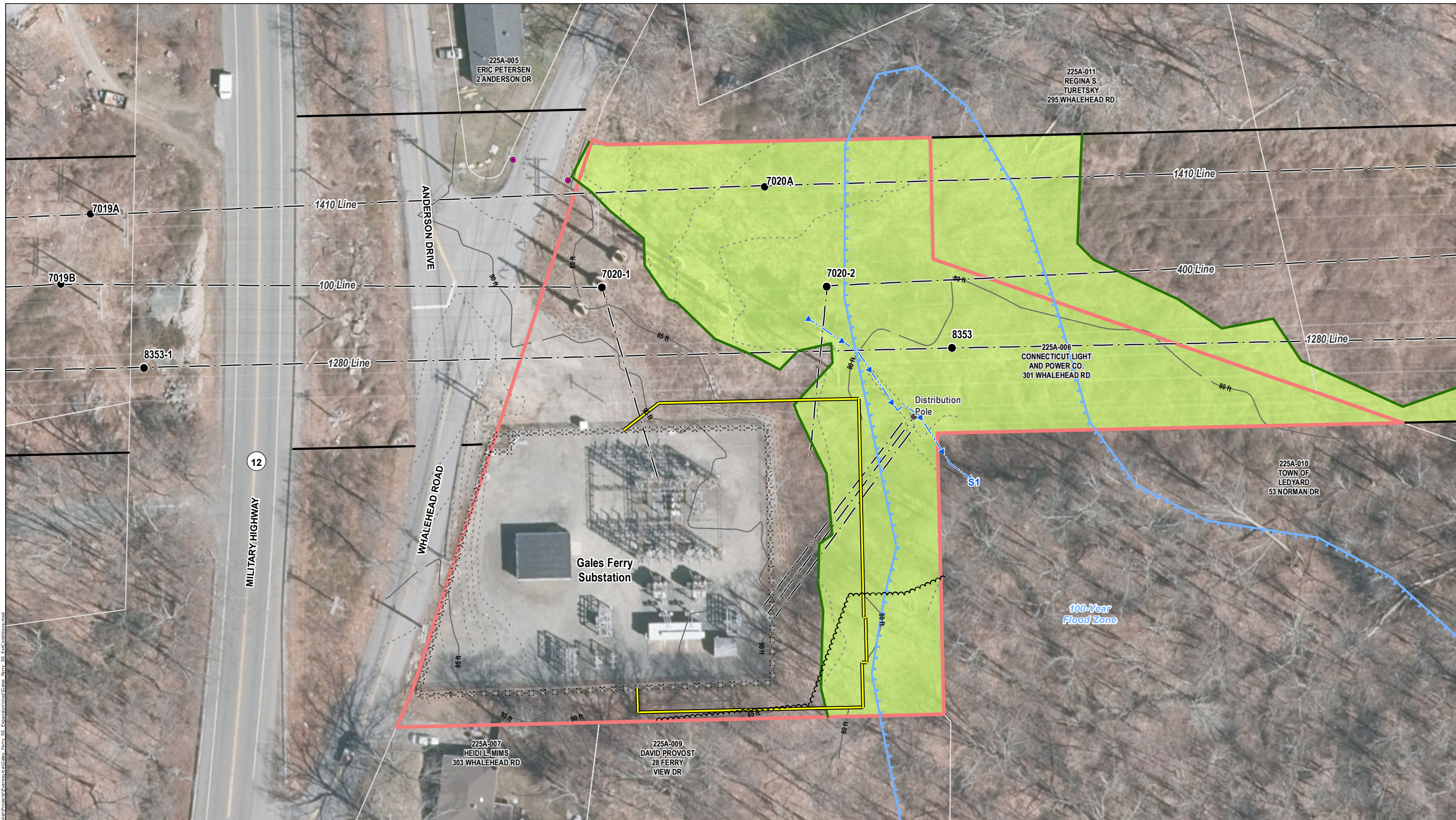
Request from: Connecticut Siting Council

Question 6:

Provide an aerial photograph of existing conditions with a line denoting the expansion area.

Response:

An aerial photograph of existing conditions with a line denoting the expansion area is attached. Note that the structures shown on the plan are part of the scope of work approved by the Council in Petition No. 1475 and is expected to be representative of existing conditions at the time the construction under this petition is initiated.



C:\Users\jacob.Dorobov\APT\GIS\Map\GIS\Team\Public\Projects\Eversource\Gales_Ferry_SS_Expansion\Map\Gales_Ferry_SS_Expansion\Map\Gales_Ferry_SS_Expansion.mxd

INDEX MAP



Legend

- Existing Structure
- Existing Right-of-Way (ROW)
- - - Overhead Eversource Line
- X=X=X Existing Substation Fence
- Proposed Substation Expansion Area/Fence Line
- 5' Contour Line
- - - 1' Contour Line
- Culvert
- Existing Tree Line
- Delineated Intermittent Watercourse
- Delineated Wetland Boundary Outline
- Field Delineated Wetland
- FEMA 100-Year Flood Zone
- Eversource Owned Property
- Parcel Boundary

Map Notes:
 Base Map Source: ESRI Aerial Imagery; CTECO 2019 Imagery.
 This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.
 Parcel boundaries are approximate (NOT survey).
 Parcels and LLNs provided by Eversource.
 ROW boundary, existing, and proposed structure locations provided by Eversource (Dec. 2021).
 Wetland data delineated by APT - DE in Dec 2021.
 Substation Layout provided by CAI on 12/10/2021.

1 inch = 50 feet
 0 25 50 Feet

NO.	DATE	REVISIONS

EVERSOURCE
ENERGY

**Gales Ferry Substation Expansion Project
Existing Conditions**

Ledyard, CT
 Map Sheet 1 of 1
 March, 2022

ALL-POINTS
TECHNOLOGY CORPORATION

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 7:

How many trees with a diameter greater than six-inches at breast height would be removed for the project?

Response:

Based on a field reconnaissance held on March 1, 2022, there are 21 trees with a diameter at breast height of 6 inches or greater that would need to be removed for the Project.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

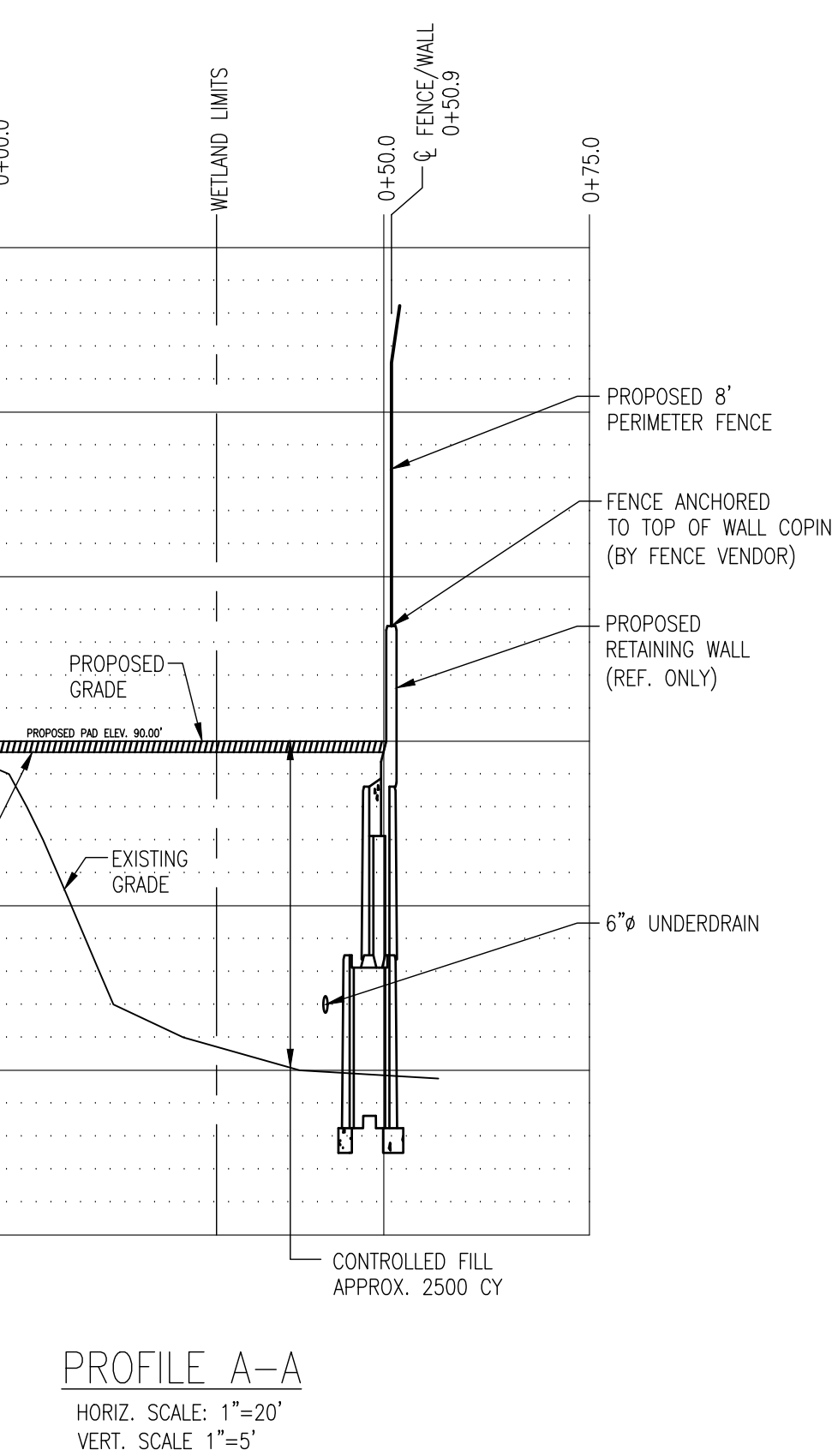
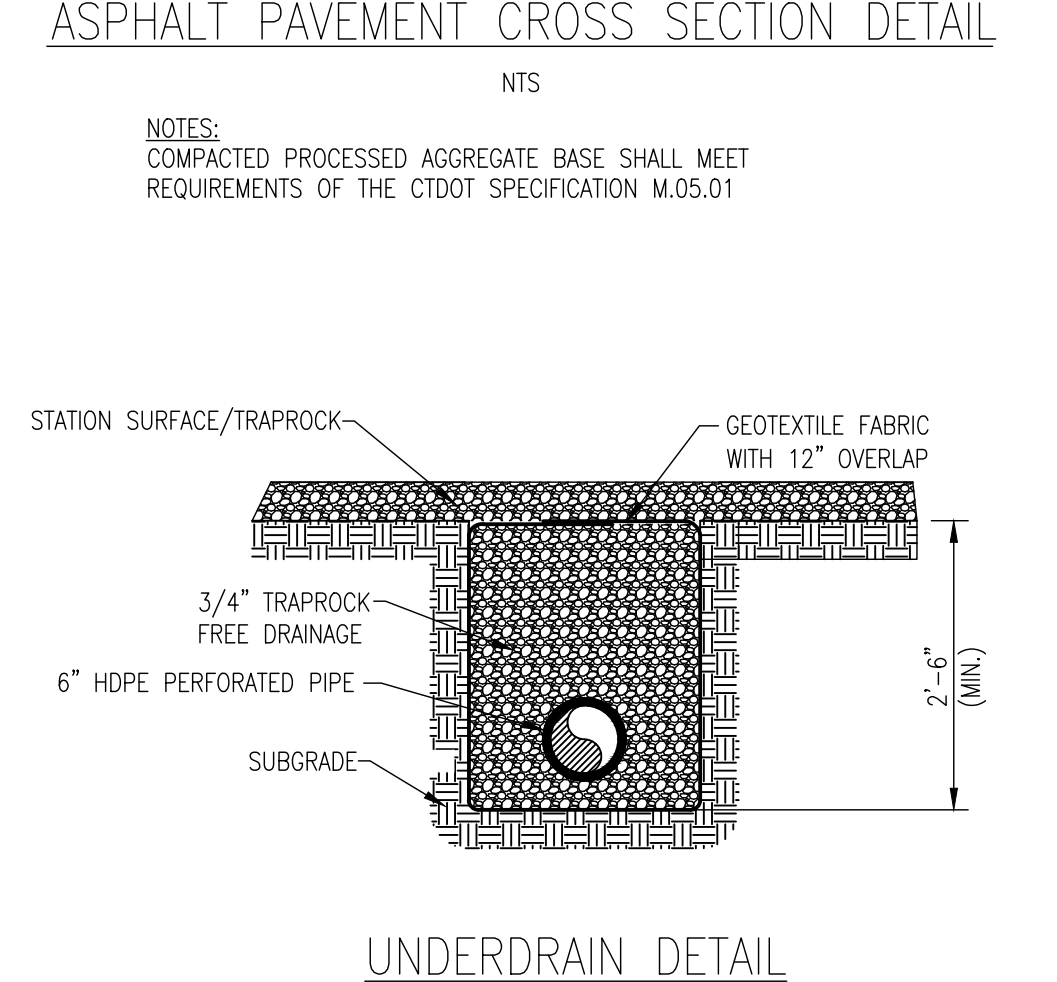
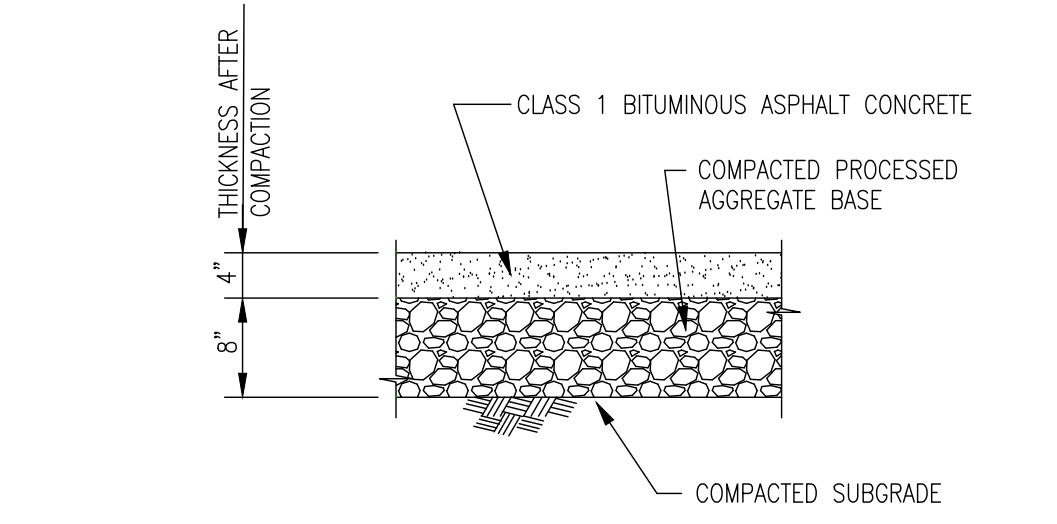
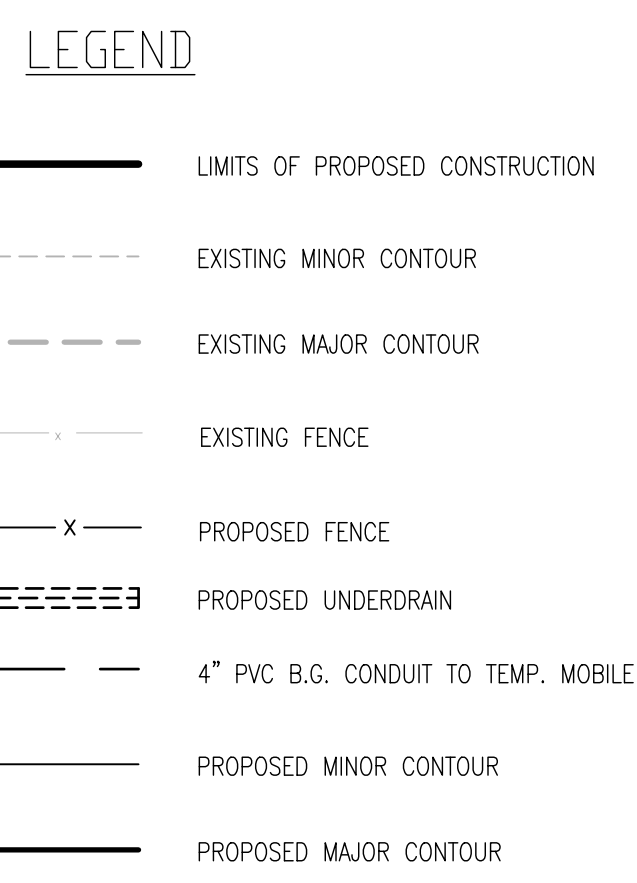
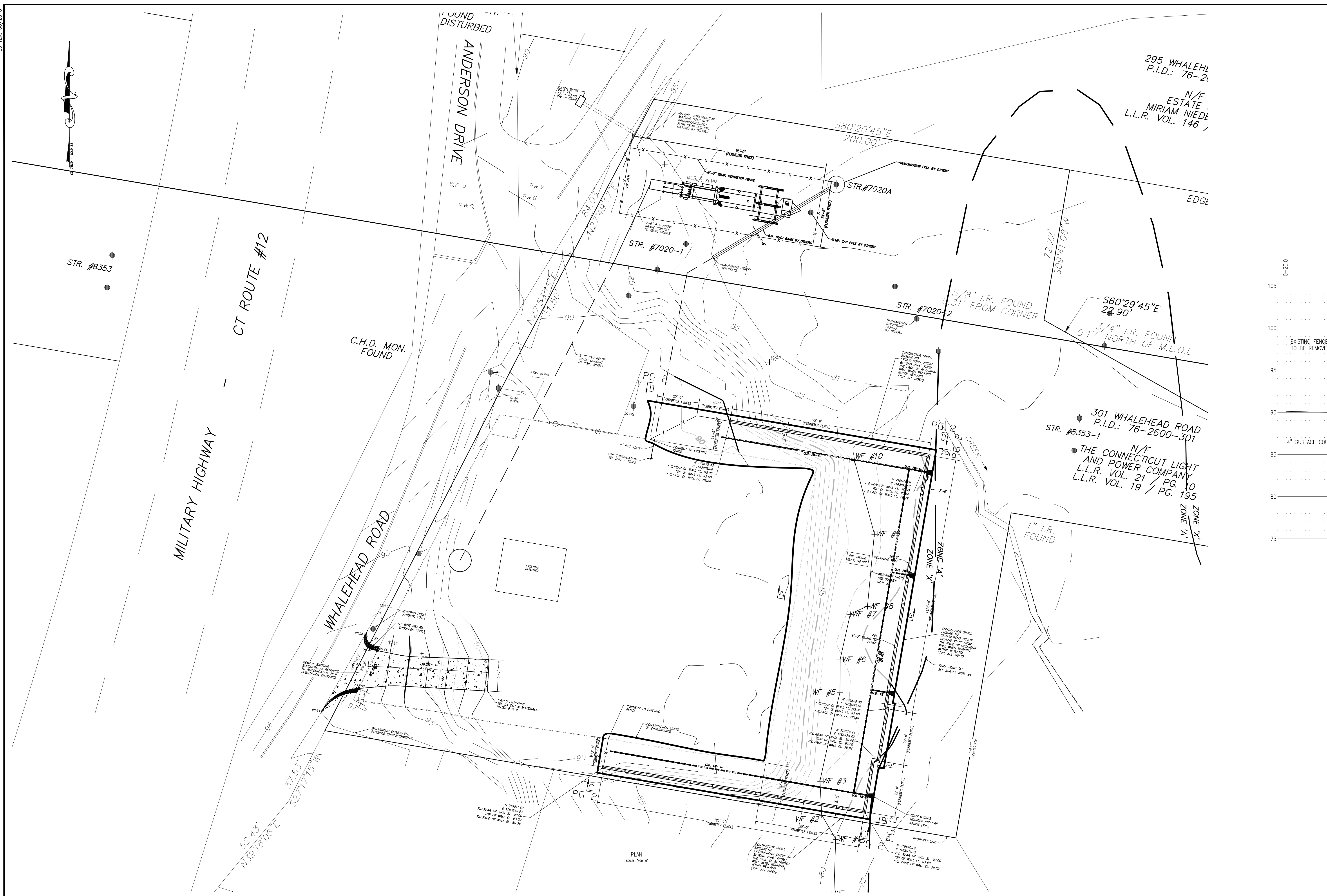
Question 8:

Provide a drawing of the proposed retaining wall.

Response:

Drawings showing a plan view and cross-sections of the retaining wall are attached.

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REV PHASE 1 ADDITIONS (NEW DRAWING)



LAYOUT AND MATERIALS

- 1. PROPOSED GRANITE BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- 2. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING LANDMARK ELEVATIONS AT INTERFACE WITH PROPOSED GRADES, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE FEATURES TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- 3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- 4. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE ENGINEER, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- 5. EXCAVATION AND BACKFILL SHALL BE PERFORMED IN ACCORDANCE WITH GEOTECHNICAL STUDY PROPOSED TERMINATION STRUCTURE AND EXPANSION OF GEOTECHNICAL, P.C. DATED SEPTEMBER 9, 2021.
- 6. REGARDING CONTROL FILL, BACKFILL OF WALLS AND EXCAVATIONS AT FOOTINGS, AND FORMATION OF THE EMBANKMENT FOR THE SUBSTATION EXPANSION, THE MATERIAL SHOULD CONFORM TO THE FOLLOWING GRADATION, OR BE WITH 3/8" CRUSHED STONE:

PERCENT PASSING	SILO SIZE
100	3 1/2"
50-100	3/4"
25-100	No. 4
0-15	No. 200
- 7. THE EXPANSION OF THE SUBSTATION YARD SHOULD BE WITH CONTROLLED FILL PLACED AFTER THE REMOVAL OF ANY TOPSOIL, SUBSOILS, AND EXISTING FILLS. IF SUBGRADES ARE MET, THERE SHOULD BE A MINIMUM OF 12" LAYER OF 3/8" CRUSHED STONE AS AN INITIAL LAYER BENEATH CONTROLLED FILLS.
- 8. PAVEMENT SHALL CONSIST OF TWO COURSES OF 2" (COMPRESSED THICKNESS) CLASS 1 BITUMINOUS ASPHALT CONCRETE AT LEAST 8" OF COMPACTED PROCESSED AGGREGATE BASE.
- 9. PROCESSED AGGREGATE BASE GRADATION: CDOT SPECIFICATION M.05.01 OR EQUIVALENT STATE D.O.T. SPECIFICATION.

PERCENT PASSING	SILO SIZE
100	2 1/2"
95-100	2"
50-75	3/4"
25-45	1/4"
2-20	No. 40
0-5	No. 100

10. SITE SURFACE COURSE (TRAP ROCK) SHALL CONSIST OF A 4" LAYER OF CRUSHED GRAY BASALT OR CRUSHED GRANITE (ANGULAR STONE) MEETING THE FOLLOWING GRADATION REQUIREMENTS:

PERCENT PASSING	SILO SIZE
100	1"
90-100	3/4"
25-55	1/2"
0-15	3/8"
0-5	No. 4

UTILITIES

- 1. THE EXISTING UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES. WORK DOES NOT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- 3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
- 4. IF REQUIRED, THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, WATER, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ENGINEER.
- 5. IF REQUIRED, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- 6. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - A. WATER PIPES SHALL BE SPECIFIED BY THE WATER COMPANY.
 - B. SANITARY SEWER PIPES SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE.
 - C. STORM DRAINAGE PIPES SHALL BE 40-20 LADING HIGH DENSITY POLYETHYLENE PIPE (HDPE), UNLESS OTHERWISE NOTED.

DEMOLITION

- 1. THE CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING MANHOLE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING: BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND UNSUITABLE MATERIAL WITHIN THE PROPOSED BUILDING FOOTPRINT AND TEN FEET BEYOND AND BENEATH PROPOSED EXTERIOR COLUMNS, PER DRAWINGS AND SPECIFICATIONS.

EXISTING CONDITIONS INFORMATION

- 1. THE EXISTING AND PROPOSED OVERHEAD TRANSMISSIONS LINES ARE DEPICTED IN THESE DRAWINGS FOR REFERENCE ONLY. THE DESIGN AND CONSTRUCTION SEQUENCE IS SUBJECT TO CHANGE. ANY ACTIVITIES THAT REQUIRE WORKING CLEARANCES IN THE VICINITY OF THE OVERHEAD LINES SHALL BE COORDINATED WITH EVERSOURCE IN ADVANCE.
- 2. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.
- 3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.
- 4. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 72 HOURS BEFORE EXCAVATING.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 6. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOW AND SEED.
- 7. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- 8. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- 9. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 10. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 11. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACATORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 12. CONTRACTOR SHALL PREVENT SOIL, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 14. WATER PIPES SHALL BE SPECIFIED BY THE WATER COMPANY.
- 15. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
- 16. SITE DEVELOPMENT CONSTRUCTION SHALL CONFORM TO EVERSOURCE SUB 210 REV.3 (08/06/2015).
- 17. GRADES SHOWN ARE FINAL GRADES AND INCLUDE 4" CRUSHED STONE SURFACE.
- 18. VEGETATION CLEARING SHOULD BE MAINTAINED TO A DISTANCE OF 10 FEET FROM THE PERMITTED BARRIER, CLEARING AND GRUBBING SHALL CONFORM TO EVERSOURCE SUB 210 REV.3 (08/06/2015).

EXISTING CONDITIONS SURVEY PROVIDED BY EVERSOURCE SUREY JOB #S22430

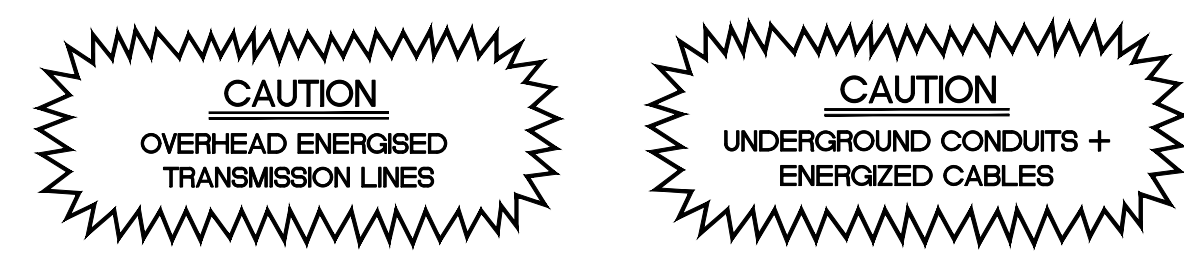
- 1. FIELD SURVEY SHOWN WAS PERFORMED ON THE GROUND BY ANCHOR ENGINEERING SERVICES, INC. IN DECEMBER 2020.
- 2. BEARINGS OBTAINED HEREON ARE BASED ON NORTH AMERICAN DATUM 1983 (NAD 83) AND WERE OBTAINED VIA RTK GPS OBSERVATIONS PROCESSED THROUGH THE SUPERIOR INSTRUMENT VRS RTK NETWORK.
- 3. WETLANDS FLAGS #1 THRU #10 PER FIELD DELINEATION, LOCATED BY BARTON AND LANDSCAPE LAND SURVEYORS ON 11/19/2021. ADDITIONAL LIMIT OF WETLANDS DEPICTED HEREON IS BASED UPON DATA PROVIDED BY EVERSOURCE ENERGY, DATED 6/08/2021.

FENCE NOTES

- 1. FENCE POSTS SHALL BE SPACED NOT TO EXCEED 10'-0" ON CENTER, AS MEASURED AT THE FENCE LINE PARALLEL TO THE GROUND.
- 2. FENCE POSTS SHALL BE OF SUFFICIENT LENGTH TO ENSURE A MINIMUM OF 36" EMBEDED INTO THE FOUNDATION.
- 3. EACH GATE, CORNER, PULL AND END POST SHALL HAVE POST BRACES.
- 4. CONCRETE SHALL DEVELOP MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. TOPS SHALL BE CROWNED TO SLED WATER.
- 5. FOUNDATIONS SHALL BE 48" DEEP EXCEPT FOR GATE POSTS WHICH WILL BE NO LESS THAN 54" DEEP.
- 6. LINE POST FOUNDATIONS SHALL BE AT LEAST 9" IN DIAMETER.
- 7. END AND CORNER POSTS FOUNDATIONS SHALL BE AT LEAST 12" IN DIAMETER.
- 8. GATE POST FOUNDATIONS SHALL BE A MINIMUM OF THREE (3) TIMES THE OUTSIDE DIAMETER OF THE GATE POST. TWO POST FOUNDATIONS WILL BE COMBINED BETWEEN DOUBLE GATES.
- 9. FOR FENCE GRADING SEE DWG. 17202-33005 AND EVERSOURCE SUB 014 - DESIGN AND APPLICATION GRADING STANDARD.
- 10. FENCE SHALL BE DESIGNED PER EVERSOURCE SUB 015 REV. 7. SEE EVERSOURCE SUB 115 REV. 3 FOR PROCUREMENT SPECIFICATIONS & EVERSOURCE SUB 215 REV. 1 FOR CONSTRUCTION SPECIFICATIONS.
- 11. IDENTIFICATION AND SAFETY SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH EVERSOURCE'S 10189 "SUBSTATION WARNING SIGNS AND NOMENCLATURE APPLICATION" REV.3 (10/17/2013).
- 12. NEW CHAIN LINK FENCE FOR THE EXPANSION AREA SHALL BE 8 FEET HIGH.

EROSION CONTROL

- 1. THE EROSION AND SEDIMENT CONTROLS SHALL BE EMPLOYED BY THE CONTRACTOR DURING THE EARTHWORK AND CONSTRUCTION PHASES OF THE PROJECT IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 2. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS IDENTIFIED IN FEDERAL, STATE AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT AS WELL AS THE BEST MANAGEMENT PRACTICES (BMPs) PUBLISHED BY EVERSOURCE TRANSMISSION AND MAINTENANCE.
- 3. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 4. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 5. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 6. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.



ALL EXCAVATION MUST BE PERFORMED WITH CAUTION
1. THIS SUBSTATION CONTAINS ENERGIZED CONDUITS AND DUCT BANKS.
2. THIS SUBSTATION MAY ALSO CONTAIN BURIED SERVICES SUCH AS WATER LINES, GAS LINES, SEWER LINES AND STORM WATER LINES.
3. THE CONDUIT DRAWING(S) AND SITE DRAWING(S) MUST BE THOROUGHLY REVIEWED PRIOR TO PERFORMING ANY EXCAVATION.
4. THE SITE AND CONDUIT DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FOR THE EXISTING LOCATION AND ROUTING OF THE CONDUITS, DUCT BANKS, AND OTHER FACILITY SERVICES.
5. THE ACCURACY HOWEVER MAY VARY SIGNIFICANTLY IN THE FIELD BASED ON THE AGE OF THE SUBSTATION AND INFORMATION RETAINED OVER THE YEARS.
THEREFORE EXCAVATION ACTIVITIES MUST BE ASSUMED THAT THERE MAY BE AN UNKNOWN BURIED CONDUIT, DUCT BANK OR OTHER SERVICES IN CLOSE PROXIMITY.

ISSUED FOR 70% REVIEW

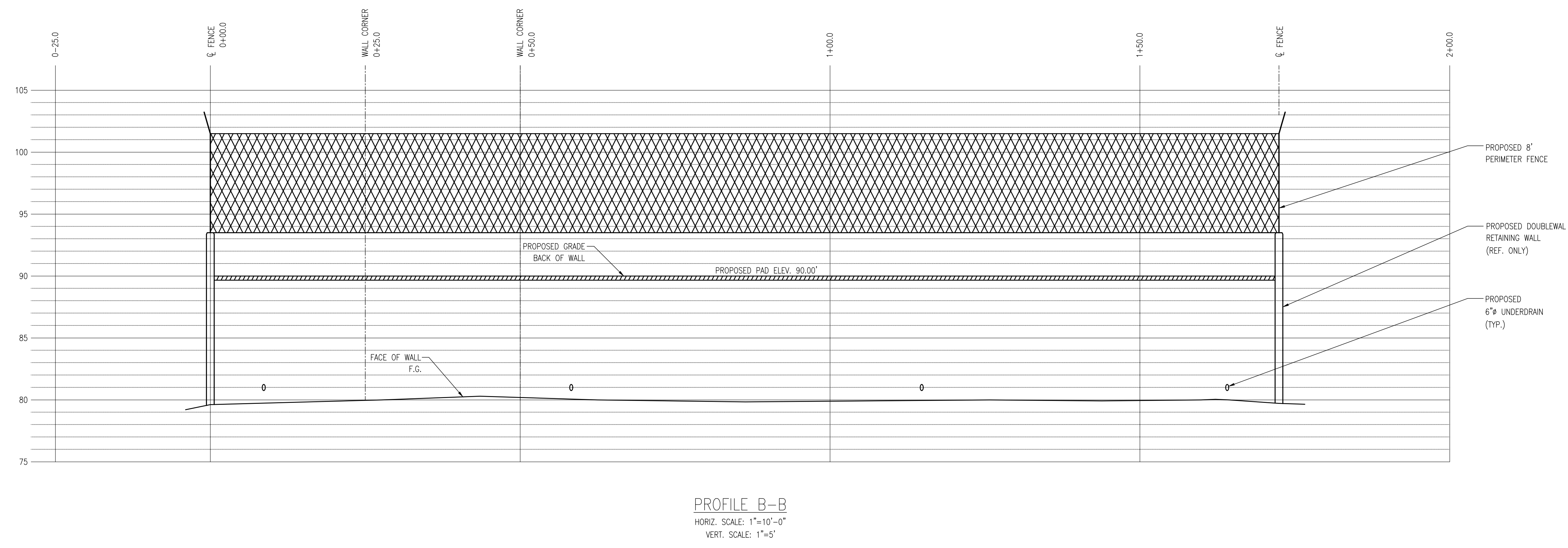
REV PHASE 1 ADDITIONS (NEW DRAWING)

REVISIONS DURING CONSTRUCTION									
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP	NO.	DATE	AS BUILT REVISIONS
AL	XX/XX	INSTALL NEW 3X 3X4W, SWR, & BATTERY HOUSE BY ON W/ #3304011	JWW	NRG	BRG				

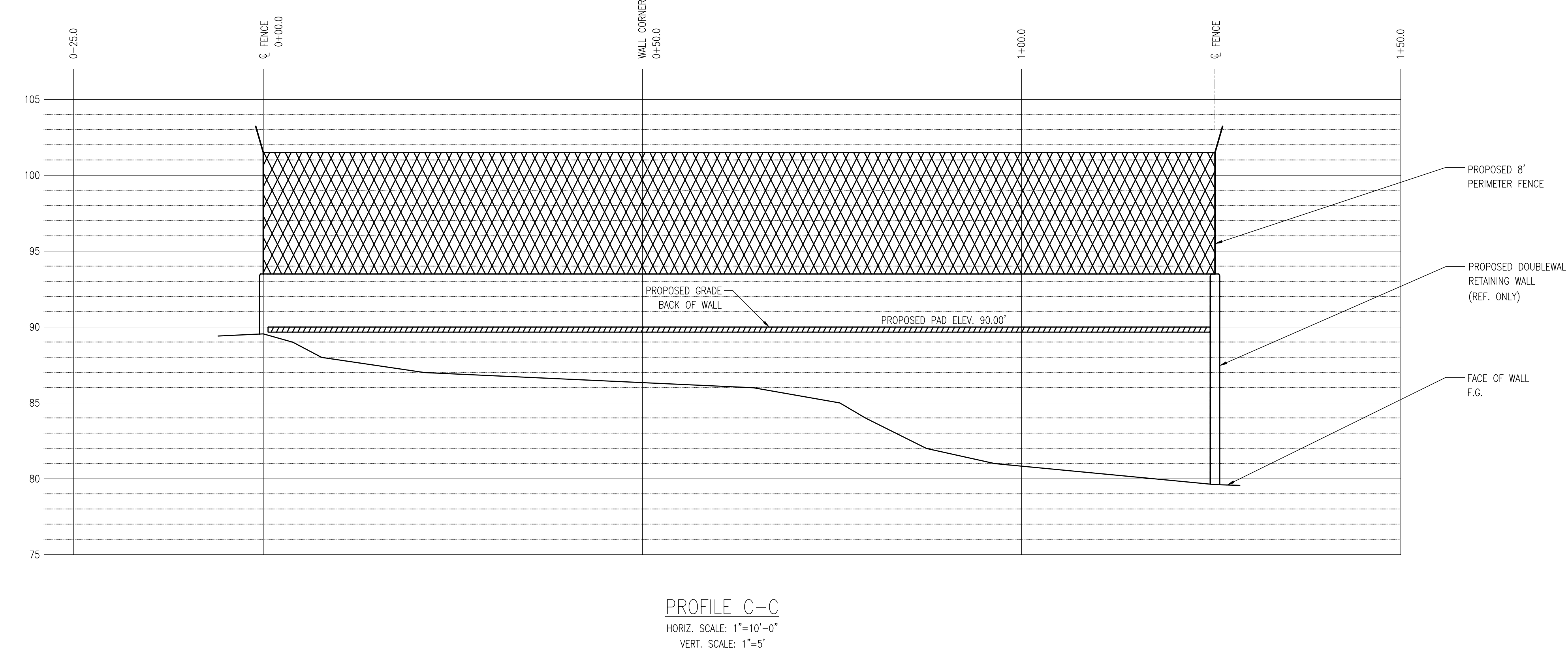
DATE	JWW (CA)	DRN	NRG (CA)	APP	BRG (CA)	APP
DATE	XX/XX	REV	XX/XX	DATE	XX/XX	DATE
1-SCALE	1"=20'-0"	REV	E	FIELD BOOK & PAGES		
1-SCALE	1"=20'-0"	REV	E	FIELD BOOK & PAGES		
1-SCALE	1"=20'-0"	REV	E	FIELD BOOK & PAGES		

EVERSOURCE ENERGY
GALES FERRY 11B
SITE DEVELOPMENT PLAN
CIVIL PLAN & DETAILS
LEDYARD, CT
17202-11005 PG.1

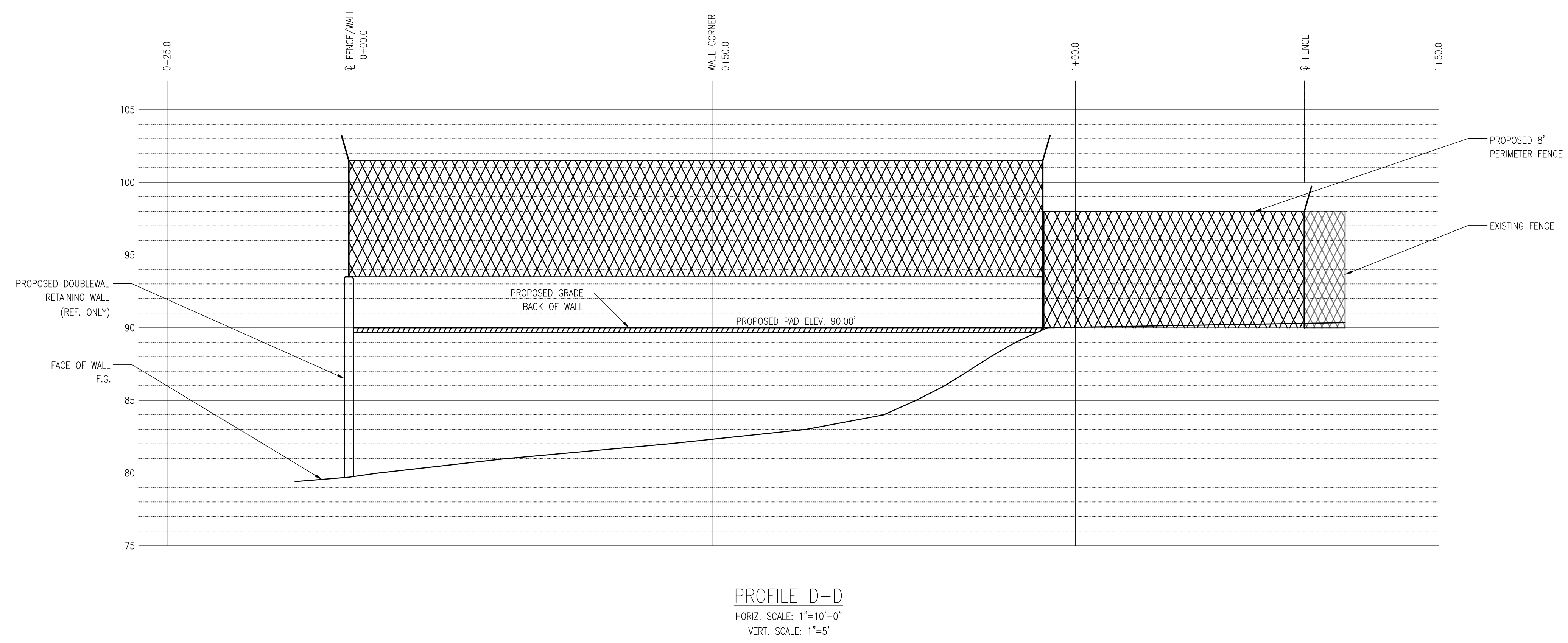
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PROFILE B-B
 HORIZ. SCALE: 1"=10'-0"
 VERT. SCALE: 1"=5'



PROFILE C-C
 HORIZ. SCALE: 1"=10'-0"
 VERT. SCALE: 1"=5'



PROFILE D-D
 HORIZ. SCALE: 1"=10'-0"
 VERT. SCALE: 1"=5'

NOTES:
 1. SEE DWG. 17202-11005 PG. 1 FOR SITE EXPANSION NOTES.
 2. SITE EXPANSION AND RETAINING WALL SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF SUB 010.

REFERENCE DRAWINGS:
 17202-11005 PG 1 SITE DEVELOPMENT PLAN

ISSUED FOR
 70% REVIEW

**REV PHASE 1 ADDITIONS
 (NEW DRAWING)**

REVISIONS DURING CONSTRUCTION									
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP	NO.	DATE	AS NOTED

AL	XX/XX	INSTALL NEW 3K X 6M SWR & BATTERY HOUSE BY OR NO. #3304011	JW	NRG	BNG
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EVERSOURCE ENERGY					
GALES FERRY 11B SITE DEVELOPMENT - PROFILES CIVIL PLAN & DETAILS LEDYARD, CT					
BY	JW (CA)	DRN	NRG (CA)	APP	BNG (CA)
DATE	XX/XX	DATE	XX/XX	DATE	XX/XX
BY	AS NOTED	DATE	E	DATE	FIELD BOOK & PAGES
BY	AS NOTED	DATE	KL	DATE	KL

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 9:

Why is the fence expansion necessary along the southern property line? Is landscaping proposed to be installed along the southern property line?

Response:

The expansion of the fence along the southern property line is necessary to provide sufficient space to facilitate the installation of the new switchgear and to provide safe working clearance distances within the substation following the installation. Additionally, the southern expansion area reduces the need to expand the substation farther to the east, thereby reducing permanent impacts to the adjacent wetlands and avoiding encroachment into the 100-year flood plain. Landscaping along the southern portion of the property is not proposed, but limited plantings could be accommodated in the area to the west of the expanded fence area. There will not be sufficient space within Eversource's property to accommodate plantings to the south of the expanded fence line.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 10:

How long would the mobile transformer be in place on the temporary construction matting? Is there a limitation from the US *Army Corps of Engineers* (ACOE) and/or the Department of Energy and Environmental Protection (DEEP) as to how long the temporary construction matting can stay in the wetland?

Response:

The mobile transformer will be in place on the temporary construction matting from approximately August 2022 until the completion of construction in approximately June 2023. The placement of the matting would be authorized under the ACOE's Connecticut Programmatic General Permits ("PGP"), specifically PGP 6, which addresses utility work, or PGP 21, which authorizes temporary fill, such as temporary construction matting. These PGPs do not include seasonal restrictions or limitations on the duration that temporary construction matting can stay within wetlands. The construction matting will be removed once construction is completed.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 11:

Does the ACOE and/or DEEP water quality permit require invasive species control within or adjacent to the wetland impact area?

Response:

The Project is eligible for certification through the ACOE / DEEP Self-Verification Notification Form process through a Programmatic General Permit ("PGP"). General Condition 16 of the PGP requires the use of 'clean' mats to minimize spread of invasive species. This requirement is also included in Eversource's *2016 Construction & Maintenance Environmental Requirements, Best Management Practices Manual for Massachusetts and Connecticut*.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 12:

Is it possible to reduce the amount of construction matting/temporary impact to the wetland?

Response:

It would be difficult and potentially unsafe to reduce the amount of construction matting/temporary impact to the wetland. For the substation work described in this Petition, an additional area of matting (approximately 6,660 square feet) is required for the safe construction of the retaining wall on the eastern edge of the proposed expansion area. Please note that, of the temporary construction matting shown in Attachment A to this Petition, approximately 38,562 square feet of the matting is needed to support the mobile transformer and to facilitate access to the right-of-way; but this matting is also needed for the line structure replacement work and the work on the 1410, 100, 400 and 1280 lines, as approved by the Council in Petition No. 1475. As noted in this Petition, all of the temporary matting will be removed upon completion of construction.

Date Filed: March 15, 2022

Request from: Connecticut Siting Council

Question 13:

Would the proposed equipment increase substation noise levels? What is the estimated noise level at the property lines and do such levels comply with DEEP Noise Control regulations? How were noise levels determined?

Response:

The proposed equipment would not increase substation noise levels. The estimated existing and predicted sound levels at the property lines are as follows:

Property Boundary	Existing (dBa)	Proposed (dBa)	Regulatory Limit
North	38	35	46
East	41	39	46
South	45	36	46
West	32	29	46

As indicated in the above table, the estimated noise levels at the property lines following completion of the Project work would comply with the DEEP Noise Control regulations.

The existing and predicted noise levels were determined using CadnaA environmental sound modeling software (Version 2018 DataKustic GmbH). The CadnaA sound modeling software uses algorithms and procedures described in International Standard ISO 9613-2:1996 "Acoustics-Attenuation of sound during propagation outdoors – Part 2: General method of calculation".