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September 28, 2017

Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Petition No. 1286
West Brookfield Reliability Project – Development & Management Plan

Dear Chairman Stein:

On May 26, 2017, Eversource Energy (“Eversource”) received an approval from the Connecticut Siting Council (“Council”) for the Development & Management Plan submitted for the Project on May 2, 2017, subject to conditions. Among other conditions of the ruling, the Council required that Eversource submit the following item:

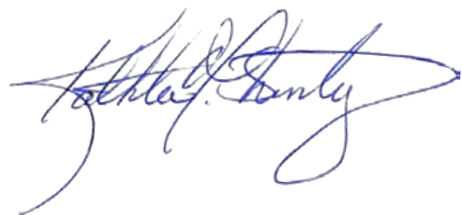
1. Eversource shall submit to the Council specifications for the concrete washout station once a specific location is determined based on field conditions.

The concrete washout station is located near the northeast corner of the existing substation, as shown on the attached revised Yard Expansion – Grading and Erosion Control Plan, Drawing No. 11801-11010 (Attachment A). The washout structure has an inside dimension of 10’x10’x3’, fitted with impermeable sheeting. It is constructed per the “Washout Structure with Straw Bales” detail and the construction specifications shown on attached Drawing No. 11801-11015 (Attachment B). The original Drawing No. 11801-11010 and Drawing No. 11801-11015 had also been included in the Development & Management Plan submitted to the Council.

As specified in Detail 8, on the drawing in Attachment B, the washout structure is located a minimum of 50 feet away from open channels, storm drain inlets, wetlands, buffers and water courses and other sensitive areas, and away from construction traffic. All discharges during concrete washout are contained within the structure where waste concrete can solidify in place and excess water can evaporate. Concrete washout materials are removed, or the washout structure replaced, when 75% full. The concrete washout area may be enlarged as necessary to maintain capacity for wasted concrete. Concrete washout water, pieces of concrete waste and all other debris in the subsurface pit will be transported from the construction site in a water-tight container and disposed of properly. When the concrete washout area is removed, the excavation would be filled with suitable compacted backfill and topsoil. The disturbed area would be roughened, seeded and mulched for final stabilization.

Enclosed please find an original and 15 copies of this filing.

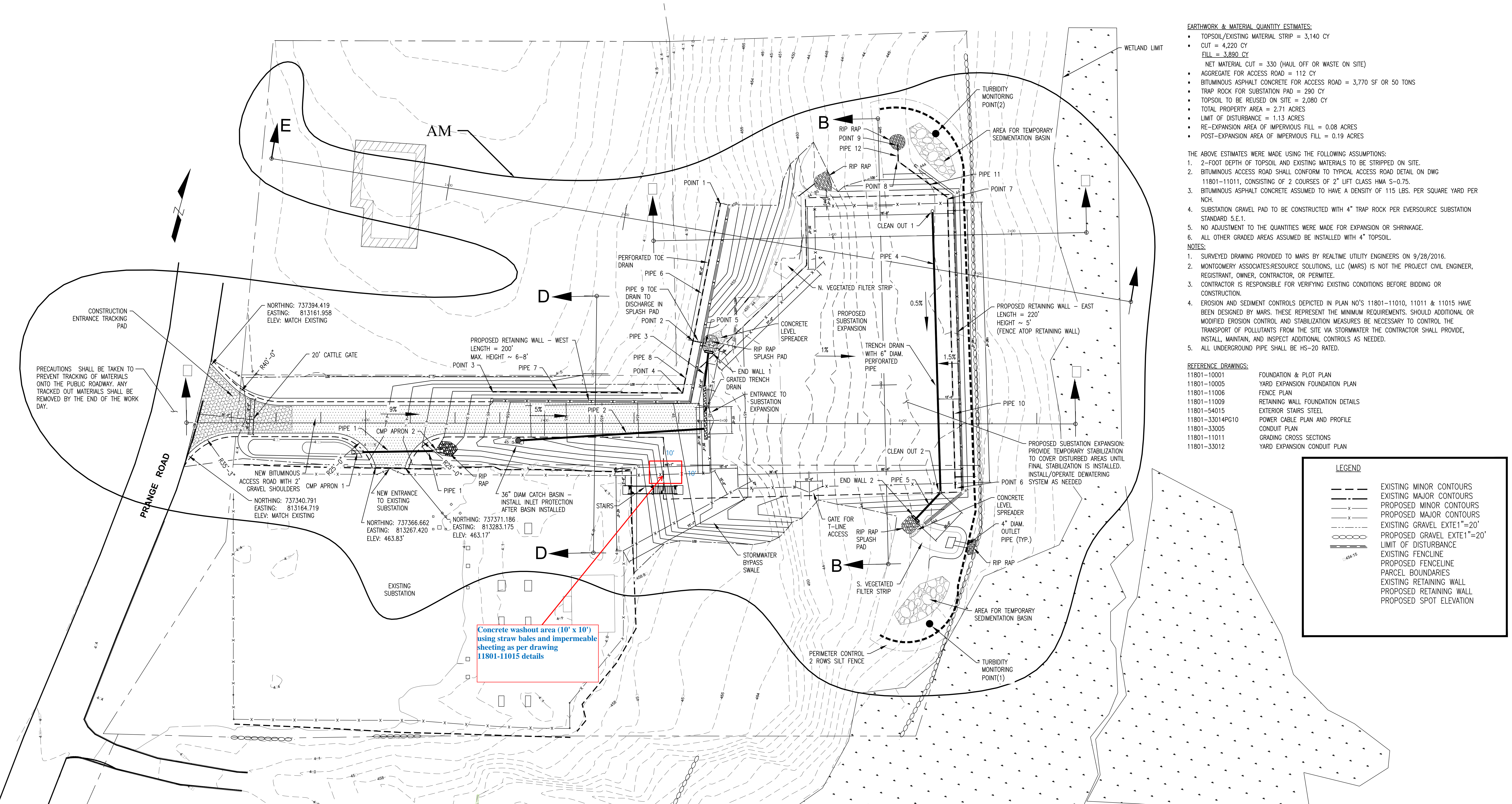
Sincerely,

A handwritten signature in blue ink, written in a cursive style. The signature appears to read "John J. Smith".

Enclosures

ATTACHMENT A

6/7/2017 4:32 PM - peter.falmon - C:\BC-Workspaces\VEEP\BROOKFIELD\Projects\CONTR01\11801-11010.dwg - REV AM Additions
 ES: VER: 05/2010



- EARTHWORK & MATERIAL QUANTITY ESTIMATES:**
- TOPSOIL/EXISTING MATERIAL STRIP = 3,140 CY
 - CUT = 4,220 CY
 - FILL = 3,890 CY
 - NET MATERIAL CUT = 330 (HAUL OFF OR WASTE ON SITE)
 - AGGREGATE FOR ACCESS ROAD = 112 CY
 - BITUMINOUS ASPHALT CONCRETE FOR ACCESS ROAD = 3,770 SF OR 50 TONS
 - TRAP ROCK FOR SUBSTATION PAD = 290 CY
 - TOPSOIL TO BE REUSED ON SITE = 2,080 CY
 - TOTAL PROPERTY AREA = 2.71 ACRES
 - LIMIT OF DISTURBANCE = 1.13 ACRES
 - RE-EXPANSION AREA OF IMPERVIOUS FILL = 0.08 ACRES
 - POST-EXPANSION AREA OF IMPERVIOUS FILL = 0.19 ACRES

- THE ABOVE ESTIMATES WERE MADE USING THE FOLLOWING ASSUMPTIONS:
1. 2-FOOT DEPTH OF TOPSOIL AND EXISTING MATERIALS TO BE STRIPPED ON SITE.
 2. BITUMINOUS ASPHALT CONCRETE SHALL CONFORM TO TYPICAL ACCESS ROAD DETAIL ON DWG 11801-11011, CONSISTING OF 2 COURSES OF 2" LIFT CLASS HMA S-0.75.
 3. BITUMINOUS ASPHALT CONCRETE ASSUMED TO HAVE A DENSITY OF 115 LBS. PER SQUARE YARD PER INCH.
 4. SUBSTATION GRAVEL PAD TO BE CONSTRUCTED WITH 4" TRAP ROCK PER EVERSOURCE SUBSTATION STANDARD 5.E.1.
 5. NO ADJUSTMENT TO THE QUANTITIES WERE MADE FOR EXPANSION OR SHRINKAGE.
 6. ALL OTHER GRADED AREAS ASSUMED BE INSTALLED WITH 4" TOPSOIL.

- NOTES:**
1. SURVEYED DRAWING PROVIDED TO MARS BY REALTIME UTILITY ENGINEERS ON 9/28/2016.
 2. MONTGOMERY ASSOCIATES-RESOURCE SOLUTIONS, LLC (MARS) IS NOT THE PROJECT CIVIL ENGINEER, REGISTRANT, OWNER, CONTRACTOR, OR PERMITEE.
 3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS BEFORE BIDDING OR CONSTRUCTION.
 4. EROSION AND SEDIMENT CONTROLS DEPICTED IN PLAN NO'S 11801-11010, 11011 & 11015 HAVE BEEN DESIGNED BY MARS. THESE REPRESENT THE MINIMUM REQUIREMENTS. SHOULD ADDITIONAL OR MODIFIED EROSION CONTROL AND STABILIZATION MEASURES BE NECESSARY TO CONTROL THE TRANSPORT OF POLLUTANTS FROM THE SITE VIA STORMWATER THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN, AND INSPECT ADDITIONAL CONTROLS AS NEEDED.
 5. ALL UNDERGROUND PIPE SHALL BE HS-20 RATED.

- REFERENCE DRAWINGS:**
- | | |
|-----------------|-----------------------------------|
| 11801-10001 | FOUNDATION & PLOT PLAN |
| 11801-10005 | YARD EXPANSION FOUNDATION PLAN |
| 11801-11006 | FENCE PLAN |
| 11801-11009 | RETAINING WALL FOUNDATION DETAILS |
| 11801-54015 | EXTERIOR STAIRS STEEL |
| 11801-33014PG10 | POWER CABLE PLAN AND PROFILE |
| 11801-33005 | CONDUIT PLAN |
| 11801-11011 | GRADING CROSS SECTIONS |
| 11801-33012 | YARD EXPANSION CONDUIT PLAN |

LEGEND

- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS
- - - PROPOSED MINOR CONTOURS
- - - PROPOSED MAJOR CONTOURS
- - - EXISTING GRAVEL EXTE1"=20'
- - - LIMIT OF DISTURBANCE
- EXISTING FENCELINE
- PROPOSED FENCELINE
- PARCEL BOUNDARIES
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED SPOT ELEVATION

Concrete washout area (10' x 10') using straw bales and impermeable sheeting as per drawing 11801-11015 details

STORM WATER PIPE SCHEDULE						
PIPE	STR. UP	INVERT UP	STR. DOWN	INVERT DOWN	DIAMETER	MATERIAL
1	CMP APRON 1	462.00'	CMP APRON 2	461.00'	6"	CMP
2	CATCH BASIN	454.50'	GRATED TRENCH	451.50'	6"	PVC
3	GRATED TRENCH	451.25'	END WALL 1	451.00'	12"	PVC
4	CLEAN OUT 1	446.05'	END WALL 2	445.16'	6"	PVC
5	CLEAN OUT 2	445.16'	END WALL 2	445.00'	6"	PVC
6	POINT 1	456.00'	POINT 2	451.75'	6"	PVC
7	POINT 3	456.00'	POINT 4	452.63'	6"	PVC
8	POINT 4	452.63'	POINT 2	451.75'	6"	PVC
9	POINT 2	451.75'	POINT 5	451.25'	6"	PVC
10	POINT 6	444.20'	POINT 7	444.03'	6"	PVC
11	POINT 7	444.03'	POINT 8	444.01'	6"	PVC
12	POINT 8	444.01'	POINT 9	444.00'	6"	PVC

STORM WATER STRUCTURE SCHEDULE			
STRUCTURE	NORTHING	EASTING	RIM ELEVATION
CMP APRON 1	737372.231	813257.055	462.50
CMP APRON 2	737384.753	813295.045	461.00
CATCH BASIN	737404.601	813338.930	458.00
GRATED TRENCH (UP)	737436.562	813438.965	452.14
GRATED TRENCH (DOWN)	737464.908	813429.143	451.84
END WALL 1	737484.061	813425.552	453.50
CLEAN OUT 1	737598.629	813529.397	449.05
CLEAN OUT 2	737457.957	813577.842	449.05
END WALL 2	737428.597	813563.759	447.00
POINT 1	737564.853	813407.309	456.00
POINT 2	737485.317	813415.729	451.75
POINT 3	737426.426	813317.409	456.00
POINT 4	737457.318	813418.693	452.63
POINT 5	737486.159	813423.695	451.25
POINT 6	737451.511	813578.538	444.20
POINT 7	737604.508	813525.871	444.03
POINT 8	737613.368	813499.957	444.01
POINT 9	737620.459	813497.516	444.00

SITE DEVELOPMENT NOTES:

1. HORIZONTAL SURVEY DATUM REFERS TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD83.
2. VERTICAL SURVEY DATUM REFERS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATION DEPICTED HEREIN HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES, AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE, ADDITIONALLY, OTHER SUCH UNDERGROUND FEATURES MAY EXIST ON THE SITE., THE EXISTENCE OF WHICH ARE UNKNOWN. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.
4. THE CONTRACTOR SHALL CONDUCT ALL EARTH DISTURBING ACTIVITIES IN A MANNER TO MITIGATE SOIL EROSION AND SEDIMENT LOSS. THE LOSS, THE WORK, AND EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND THE NORTHEAST UTILITIES BEST MANAGEMENT PRACTICES MANUAL; CONNECTICUT DATED DECEMBER 2001. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE AND SHALL BE LEFT IN PLACE UNTIL THE COMPLETION OF THE PROJECT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. CONTRACTOR SHALL ADJUST EROSION AND SEDIMENTATION MEASURES TO MAINTAIN SEDIMENTATION AND EROSION CONTROL CONSISTENT WITH THE STORMWATER POLLUTION CONTROL PLAN PREPARED FOR THIS PROJECT.
6. THE SITE DEVELOPMENT CONTRACTOR SHALL COORDINATE AND SCHEDULE HIS SITE GRADING ACTIVITIES WITH THE OWNER. THE CONSTRUCTION LIMIT OF THE PROJECT EXTENDS TO THE LIMIT OF DISTURBANCE LINE, GRADING AND EARTHWORK LIMIT OF DISTURBANCE (LOD) AREA TOTAL = 1.13 ACRES.
7. AREAS WITHIN THE EXISTING SUBSTATION THAT ARE DISTURBED DURING CONSTRUCTION AND EXPANDED SUBSTATION AREA, INCLUDING AREAS 4-FT OUTSIDE THE NEW FENCE LINE, SHALL BE SURFACED WITH 4-INCH THICK LAYER OF TRAP ROCK (GRAVEL) ON PROPERLY PREPARED SUBGRADE PER EVERSOURCE STANDARDS.
8. CONTRACTOR SHALL INSTALL 4-INCHES OF TOPSOIL AND SEED IN AREAS WITHIN THE LIMITS OF DISTURBANCE THAT ARE NOT OTHERWISE SURFACED WITH GRAVEL.
9. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISHED GRADE, UNLESS OTHERWISE NOTED.
10. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 0909C0503H DATED DECEMBER 17, 2010, THE PROJECT IS LOCATED WITHIN ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
11. GEOTECHNICAL INFORMATION BASED UPON GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL STUDY FOR PROPOSED EXPANSION OF WEST BROOKFIELD SUBSTATION, 85 PRANGE ROAD, BROOKFIELD, CT" DATED JANUARY 18, 2007.
12. CONTRACTOR SHALL NOT HAVE ANY PERMANENT IMPACTS TO WETLANDS OR ADJACENT PROPERTIES DURING CONSTRUCTION.
13. CONTRACTOR SHALL INSTALL TURF REINFORCEMENT MATS ON NEW 3' H: 1' V EARTH SLOPES (NORTH AMERICAN GREEN SC250 OR APPROVED EQUAL).
14. SUBSTATION EXPANSION SURFACE AREA SHALL BE GRADED TO DRAIN STORMWATER RUNOFF AWAY FROM THE PROPOSED RETAINING WALL SYSTEM.
15. SITE DEVELOPMENT AS-BUILT SURVEY REQUIRED UPON COMPLETION OF SITE WORK CONSTRUCTION SCOPE. AS-BUILT DRAWINGS SHALL INCLUDE A NOTE TO REFERENCE THE FINAL RETAINING WALL DESIGN DRAWINGS AND CALCULATIONS.
16. REFER TO DRAWINGS SERIES 17605-11009 FOR RETAINING WALL DESIGN AND FENCE DETAILS.
17. SITE DEVELOPMENT WORK SHOULD ADHERE TO ES DESIGN STANDARD SUB010 - SUBSTATION SITE DEVELOPMENT AND CONSTRUCTION STANDARD SUB210.
18. COORDINATES SHOULD BE USED AS LAST RESORT, DIMENSIONS SHOULD BE REFERENCED FROM PROPOSED BASE LINES.
19. EXISTING SITE SURVEY NEEDS TO BE VERIFIED WITH EVERSOURCE SITE SURVEY BEFORE COMMENCING CONSTRUCTION.

REV AM ADDITION
NEW DRAWING

REVISIONS DURING CONSTRUCTION				
REV	DATE	DESCRIPTION	BY	CHK
AM	6/17	ADD CAP BANK WD #404353WB (BY RUE)		

EVERSOURCE ENERGY

WEST BROOKFIELD 14H
YARD EXPANSION - GRADING & EROSION CONTROL
CIVIL PLAN
BROOKFIELD, CT

DATE	RUE	CHK	SL	DATE	CHK	APP
4/17	RUE	4/17	RUE	4/17	RUE	
V-SCALE	N.T.S.	SCALE	E	FIELD BOOK & SHEET		
FILE NUMBER				11801-11010		11801-11010

ATTACHMENT B

