STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

January 28, 2022

Lee D. Hoffman, Esq.
Pullman & Comley, LLC
90 State House Square
Hartford, CT 06103-3702
lhoffman@pullcom.com

RE: **DOCKET NO. 497–** Burlington Solar One, LLC Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a 3.5-megawatt AC solar photovoltaic electric generating facility located at Lot 33, Prospect Street, Burlington, Connecticut and associated electrical interconnection.

Dear Attorney Hoffman:

The Connecticut Siting Council (Council) is in receipt of your correspondence (with attachments) dated January 27, 2022 regarding compliance with Condition Nos. 1 through 3 of the Council's September 24, 2021 Development and Management Plan (D&M Plan) approval for the above-referenced facility.

The Council acknowledges that the D&M Plan Condition Nos. 1 through 3 have been satisfied. This acknowledgment applies only to the D&M Plan conditions satisfied by the January 27, 2022 correspondence.

Furthermore, the Certificate Holder is responsible for compliance with the reporting requirements under RCSA 16-50j-62, including:

1. Notification of completion of construction and commencement of operation; and
2. Final report.

Any significant changes to the above-referenced facility require advance Council notification and approval.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MB/MP

c: Service List, dated September 10, 2021

PULLMAN &COMLEY

Lee D. Hoffman
90 State House Square
Hartford, CT 06103-3702
p 860 424 4315
f 860 424 4370
lhoffman@pullcom.com
www.pullcom.com

January 27, 2022

VIA ELECTRONIC MAIL
Melanie Bachman
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Docket No. 497 - Burlington Solar One, LLC – Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a 3.5-Megawatt AC Solar Photovoltaic Generating Facility Located at Lot 33, Prospect Street, Burlington, Connecticut, and Associated Electrical Interconnection.

Docket No. 497 – DG Connecticut Solar III, LLC – Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a 3.5-Megawatt AC Solar Photovoltaic Generating Facility Located at Lot 33, Prospect Street, Burlington, Connecticut, and Associated Electrical Interconnection.

Dear Ms. Bachman:

I am writing to you in response to your letter of January 20, 2022 concerning this project. I am writing to you on behalf of my client, VCP, LLC d/b/a Verogy and its affiliates, the former owner of Burlington Solar One, LLC and the current EPC contractor for the project that is the subject of this Docket.

In your letter, you reference the Council's September 24, 2021 approval of the project's Development and Management (D&M) Plan, and the four conditions contained therein. Specifically, the Council required that the project provide it with:

1. A revised Petroleum Materials Storage and Spill Prevention Plan indicating contractor education and contact information;

2. Submission of a final laydown area location;

3. Submission of the final plans for periodic cleaning of temporary sediment traps and swales and permanent stormwater basins; and

4. Submission of specific requests for Sunday work hours, if necessary.

With this letter, I am enclosing a revised Petroleum Materials Storage and Spill Prevention Plan, documentation of the final laydown area, and final plans for the cleaning of stormwater structures. The documentation of the final laydown area and final plans for the cleaning of stormwater structures are included in the attached project drawings. The revised Petroleum Materials Storage and Spill Prevention Plan is contained in a separate document, which is also included with this letter. Sunday work hours have not been necessary for this project, however, if such hours become necessary, the project will notify the Council of such necessity. With this submission, I believe all outstanding D&M Plan issues for this project have been addressed.

The remainder of your letter addressed the ownership issues associated with the project. It is my understanding that the project's current owner, DG Connecticut Solar III, LLC ("DG III"), will be sending additional information to the Council regarding the transfer of ownership of the project. For purposes of this letter, however, on August 13, 2021, an affiliate of VCP, LLC d/b/a Verogy ("Verogy") assigned 100% of its membership interests in Burlington Solar One, LLC to DG III. DG III therefore became the owner of Burlington Solar One, LLC. Thereafter, Burlington Solar One, LLC was merged into DG III, and DG III was the surviving entity. As such, DG III should be the holder of the project's certificate.

This does not resolve the issue of Burlington Solar One, LLC's January 28, 2021 remittance of $25,000 to the Siting Council as a Municipal Participation Fund payment for the benefit of the Town of Burlington. That payment was made by Burlington Solar One, LLC, which, at the time, was an affiliate of Verogy. The Town of Burlington did not draw on any of the $25,000, and it is our understanding that the Office of the State Treasurer is willing to return the $25,000, however, it needs to be advised as to which entity the funds should be returned to.

Because an affiliate of Verogy made the original payment, the $25,000 should be returned to an affiliate of Verogy. Accordingly, we hereby request that payment of $25,000 be made to VCP, LLC dba Verogy. Should you need additional details for such payment, please contact the undersigned.

Thank you in advance for your prompt consideration of this matter. Should you have any questions concerning this submittal, please contact me at your convenience. I certify that copies of this submittal have been made to all parties on the Petition's Service List as of this date.

Sincerely,

Lee D. Hoffman

Lee D. Hoffman

Enclosures

EXHIBIT B

Petroleum Materials Storage and Spill Prevention

a. Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, biodegradable transformer insulating fluid, etc.) spill due to the project's location in proximity to sensitive wetland resources.

b. A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material will be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state, and federal laws.

c. The following petroleum and hazardous materials storage and refueling restrictions and spill response procedures will be adhered to by the Contractor.

i. Petroleum and Hazardous Materials Storage and Refueling

1. Refueling of vehicles or machinery shall take place on an impervious pad with secondary containment designed to contain fuels.
2. Any refueling drums/tanks or hazardous materials that must be kept on site shall be stored on an impervious surface utilizing secondary containment a minimum of 100 feet from wetlands or watercourses.

ii. Initial Spill Response Procedures

1. Stop operations and shut off equipment.
2. Remove any sources of spark or flame.
3. Contain the source of the spill.
4. Determine the approximate volume of the spill.
5. Identify the location of natural flow paths to prevent the release of the spill to sensitive nearby waterways or wetlands.
6. Ensure that fellow workers are notified of the spill.

iii. Spill Clean Up & Containment

1. Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
2. Limit the spread of the spill by placing absorbent materials around the perimeter of the spill.
3. Isolate and eliminate the spill source.
4. Contact the appropriate local, state and/or federal agencies, as necessary.
5. Contact a disposal company to properly dispose of contaminated materials.

iv. Reporting

1. Complete an incident report.
2. Submit a completed incident report to local, state and federal agencies, as required.
3. The Connecticut Department of Energy & Environmental Protection (DEEP), Emergency Response Unit should be contacted at: (860) 424-3338, in the event of an emergency spill

d. Site Contact and Emergency Contact

Project Owner: Burlington Solar One, LLC Phone: (860) 288-7215	**Local Fire Department:** Burlington Assistant Fire Chief, Jason Warner Phone (non-emergency): (860) 623-7780 Phone (emergency): 911
Project Site Contact: Burlington Solar One, LLC Name: Ken Czajka – Project Superintendent Phone: 860.929.9488	**Local Police Department:** Phone (non-emergency): (860) 675-2183 Phone (emergency): 911
Construction Oversight Contact: Burlington Solar One, LLC Name: Steven DeNino, Chief Operating Officer Phone: (860) 288-7215	**State Agency: Connecticut Department of Energy & Environmental Protection (DEEP), Emergency Response Unit** Phone: (860) 424-3338 Alternate Phone: (860) 424-3333
Spill Clean Up Contractor: **Clean Harbors Environmental** 51 Broderick Road, Bristol, CT 06010 Phone: (860) 583-8917	

e. Contractor Training in Accordance with the Eastern Box Turtle and Hognose Snake Protection Plan

i Education of all contractors and sub-contractors prior to initiation of work on the site **(To be implemented prior to start of construction)**

BURLINGTON SOLAR ONE, LLC

Prospect Street
Burlington, Connecticut

LIST OF DRAWINGS:

REVISIONS:

10-30-20; Revised Panel Layout
02-10-21; First Design Submittal
04-07-21; Revised Landscaping
06-29-21; Revised Panel Layout and DEEP Comments
07-30-21; As per DEEP Comments
09-23-21; As per CSC Review

PREPARED FOR: Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, Connecticut 06103

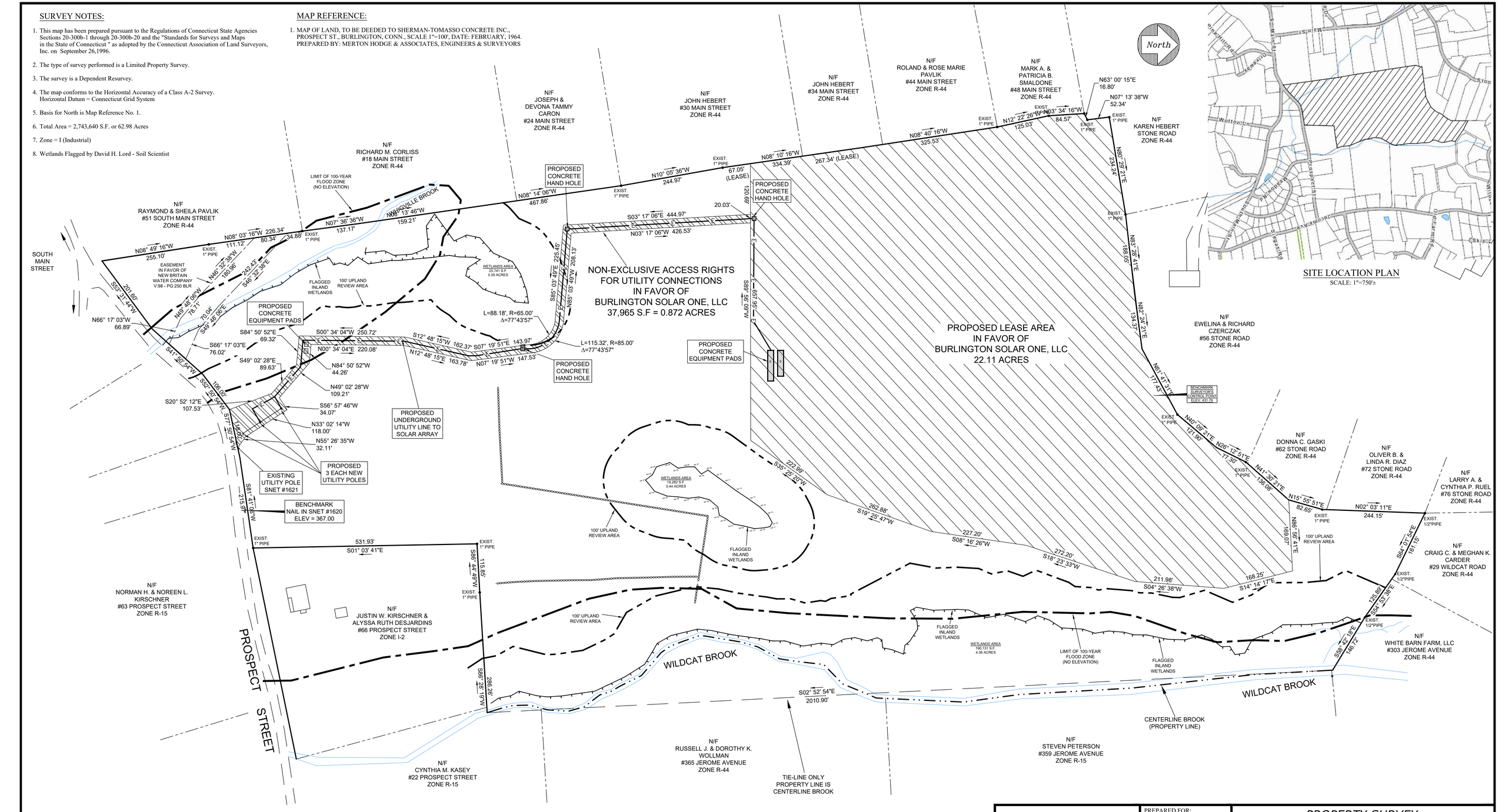
ENGINEER: R. R. Hiltbrand Engineers & Surveyors
575 North Main Street
Bristol, Connecticut
06010

SURVEY NOTES:

1. This map has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut " as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26,1996.
2. The type of survey performed is a Limited Property Survey.
3. The survey is a Dependent Resurvey.
4. The map conforms to the Horizontal Accuracy of a Class A-2 Survey. Horizontal Datum = Connecticut Grid System
5. Basis for North is Map Reference No. 1.
6. Total Area = 2,743,640 S.F. or 62.98 Acres
7. Zone = I (Industrial)
8. Wetlands Flagged by David H. Lord - Soil Scientist

MAP REFERENCE:

1. MAP OF LAND, TO BE DEEDED TO SHERMAN-TOMASSO CONCRETE INC., PROSPECT ST., BURLINGTON, CONN., SCALE 1"=100', DATE: FEBRUARY, 1964. PREPARED BY: MERTON HODGE & ASSOCIATES, ENGINEERS & SURVEYORS



SITE LOCATION PLAN
SCALE: 1"=750'±

GRAPHIC SCALE
100 50 0 100 200
1 Inch = 100 Feet

UTILITY NOTE:
LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED UPON FIELD SURVEY OF VISIBLE SURFACE STRUCTURES SUCH AS CATCH BASINS AND MANHOLES, TOGETHER WITH RECORD MAPPING OBTAINED FROM UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AS NOTED UNDER MAP REFERENCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. IN ADDITION, OTHER UTILITIES MAY ALSO EXIST, UNKNOWN TO THE SURVEYOR. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

REVISED 06/29/21: REVISED LEASE AREA AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP AND SURVEY WERE PREPARED IN ACCORDANCE WITH THE STANDARDS OF A CLASS "A–2" SURVEY AS DEFINED IN THE CODE OF PRACTICE FOR STANDARDS OF ACCURACY OF SURVEYS AND MAPS, ADOPTED SEPT. 26, 1996 AS AMENDED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INCORPORATED.

CARMINE J. MATRASCIA – L.S. # 70219
NOT VALID WITHOUT EMBOSSED SEAL

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

PROPERTY SURVEY
Lot 33
Prospect Street
Burlington, Connecticut

June 16, 2020

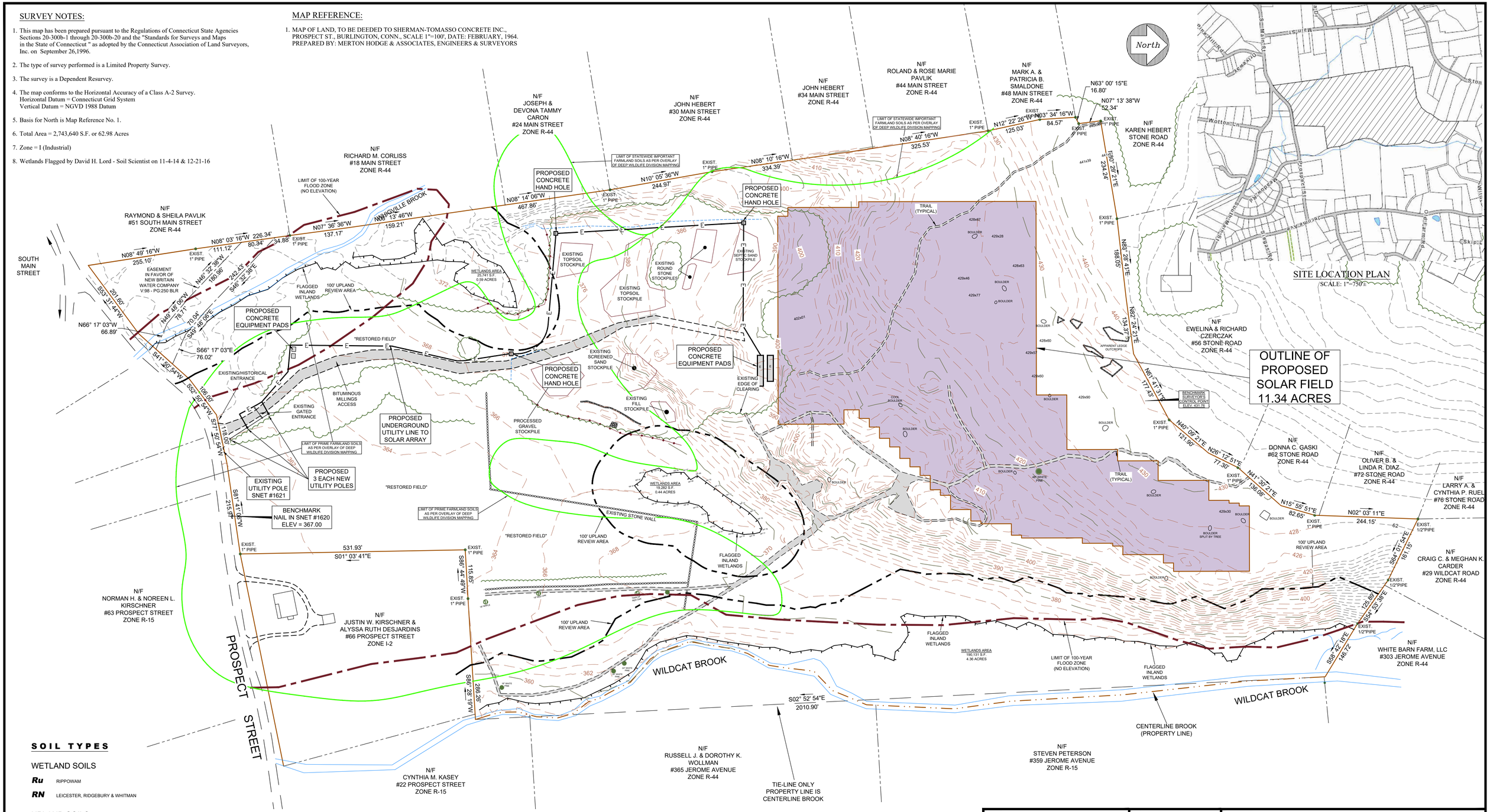
R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

SURVEY NOTES:

1. This map has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut " as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26,1996.
2. The type of survey performed is a Limited Property Survey.
3. The survey is a Dependent Resurvey.
4. The map conforms to the Horizontal Accuracy of a Class A-2 Survey.
   Horizontal Datum = Connecticut Grid System
   Vertical Datum = NGVD 1988 Datum
5. Basis for North is Map Reference No. 1.
6. Total Area = 2,743,640 S.F. or 62.98 Acres
7. Zone = I (Industrial)
8. Wetlands Flagged by David H. Lord - Soil Scientist on 11-4-14 & 12-21-16

MAP REFERENCE:

1. MAP OF LAND, TO BE DEEDED TO SHERMAN-TOMASSO CONCRETE INC., PROSPECT ST., BURLINGTON, CONN., SCALE 1"=100', DATE: FEBRUARY, 1964. PREPARED BY: MERTON HODGE & ASSOCIATES, ENGINEERS & SURVEYORS



SOIL TYPES

WETLAND SOILS

Ru RIPPOWAM

RN LEICESTER, RIDGEBURY & WHITMAN

UPLAND SOILS

Af AGAWAM - SANDY LOAM

Hk HINCKLEY - SANDY LOAM

GRAPHIC SCALE

100 50 0 100 200

1 Inch = 100 Feet

REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP AND SURVEY WERE PREPARED IN ACCORDANCE WITH THE STANDARDS OF A CLASS "A-2 & T-2" SURVEY AS DEFINED IN THE CODE OF PRACTICE FOR STANDARDS OF ACCURACY OF SURVEYS AND MAPS, ADOPTED SEPT. 26, 1996 AS AMENDED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INCORPORATED.

CARMINE J. MATRASCIA – L.S. # 70219
NOT VALID WITHOUT EMBOSSED SEAL

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

IMPROVEMENT LOCATION SURVEY

Lot 33
Prospect Street
Burlington, Connecticut

September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

N/F
ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

N/F
MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GASKI
#62 STONE ROAD
ZONE R-44

North

N08° 14' 06"W
467.86'

N10° 05' 36"W
244.97'

N08° 10' 16"W
334.39'

N08° 40' 16"W
325.53'

N12° 22' 26"W
125.03'

N03° 34' 16"W
84.57'

N63° 00' 15"E
16.80'

N07° 13' 38"W
52.34'

N83° 28' 41"E
188.05'

N82° 26' 21"E
134.37'

N61° 41' 31"E
177.43'

N40° 09' 21"E
121.90'

N26° 12' 51"E
77.30'

N41° 30' 21"E
136.09'

N15° 55' 51"E
82.65'

N80° 29' 21"E
234.24'

EXIST.
1" PIPE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
SEPTIC SAND
STOCKPILE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
FILL
STOCKPILE

PROCESSED
GRAVEL
STOCKPILE

EXISTING
EDGE OF
CLEARING

PROPOSED
CONSTRUCTION
LAYDOWN AREA

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

FLAGGED
INLAND
WETLANDS

100' UPLAND
REVIEW AREA

EXISTING STONE WALL

"RESTORED FIELD"

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
6'W x 8'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 401.50

2% SLOPED GRASS
INFILTRATION SHELF

SLOPE ABOVE SILT FENCE
TO BE TEMPORARY MULCHED

PROPOSED GEO-TEXTILE
SILTFENCE

PROPOSED STORM WATER
QUALITY BASIN #1
(TOP BERM ELEV. 402.50)

PROPOSED DOUBLE ROW OF
GEO-TEXTILE SILTFENCE
INSTALL WOODCHIPS BETWEEN
ROWS (SEE DETAIL)

LIMIT OF GRADING FOR
STORMWATER QUALITY
BASIN INSTALLATION

STORMWATER QUALITY BASIN AND
SWALE AREAS SHALL BE RESTORED
WITH TOPSOIL, SEED, AND SLOPES
LINED WITH TENSAR NORTH AMERICAN
GREEN S75 OR EQUAL EROSION
CONTROL FABRIC

PROPOSED ¾" CRUSHED STONE
INFILTRATION TRENCH
(SEE DETAIL)

PROPOSED
OUTLET STRUCTURE #1
TOP GRATE = 401.00
6" ORIFICE = 398.50
18" OUTLET = 395.00

LIMIT OF CLEARING
(TYPICAL)

AREA OF CLEARING (16.6 ACRES)
STUMPS SHALL REMAIN EXCEPT
FOR AREAS RELATED TO
EROSION CONTROL FEATURES
AND STORM WATER
QUALITY BASINS

PHASE 1
CONSTRUCT STORM WATER QUALITY BASINS
NO UP-SLOPE DISTURBANCE OTHER THAN
CLEARING OF TREES (STUMPS TO REMAIN)
SEE CONSTRUCTION SEQUENCE ON
DETAILS SHEET (PAGE 12 OF 15)

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

APPARENT LEDGE
OUTCROPS

48" WHITE
PINE

BOULDER
SPLIT BY TREE

PROPOSED
18" RCP FLARED END
FL = 392.00

PROPOSED
415' 18" CPP
@ 0.7%

PROPOSED 10' x 10'
MODIFIED GRADE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
10'W x 10'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 399.50

PROPOSED
175' - 18" CPP
@ 5.1%

PROPOSED
18" RCP FLARED END
FL = 379.00

PROPOSED
OUTLET STRUCTURE #2
TOP GRATE = 399.50
6" WIDE x 46" HIGH WEIR = 392.80
18" OUTLET = 388.00

PROPOSED STORM WATER
QUALITY BASIN #2
(TOP 10' WIDE BERM ELEV. 401.00)

PROPOSED 15' x 15'
INTERMEDIATE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED GEO-TEXTILE
SILTFENCE BACKED WITH
12" HIGH SEDIMENT LOG

PROPOSED GRASS-LINED
SWALE TO PROPOSED
STORM WATER QUALITY
BASIN

PROPOSED SWALE SHALL
BE LINED WITH TENSAR
NORTH AMERICAN GREEN
S75 OR EQUAL EROSION
CONTROL FABRIC

END OF GRASS SWALE
(PHASE 1)

PROPOSED GEO-TEXTILE
SILTFENCE CHECK DAMS
BACKED WITH
12" HIGH SEDIMENT LOG

PROPOSED GEO-TEXTILE
SILTFENCE BACKED WITH
12" HIGH SEDIMENT LOG

EXISTING
SILT FENCE

EXISTING
GRAVEL
DRIVE

EXISTING
6" PVC OUTLET
FL - 365.52

EXISTING CRUSHED STONE
INFILTRATION TRENCH
W/ 6" PVC (PERF) PIPE

EXISTING 3" MINUS NATIVE
ROUND STONE BERM

EXISTING TEMPORARY
SEDIMENT TRAP
336 C.Y. TO ELEV. 387.00
(321.6 C.Y. REQUIRED)
HIGH WATER MARK 384.95

EXISTING SILT FENCE
(RE-ERECT AND STAPLE
SILT FENCE AS REQUIRED)

EXISTING
MODIFIED GRADE
NATIVE ROUND STONE
TOP SPILLWAY
ELEV. 387.36

EXISTING
FILL
STOCKPILE

FLAGGED INLAND
WETLANDS
(TYPICAL)

EXISTING
TREELINE
(TYPICAL)

100' UPLAND
REVIEW AREA

6" PVC OUTLET
FL - 375.06

COOL
BOULDER

BOULDER

SWALE

428x67

429x28

428x63

429x46

429x77

428x60

429x57

429x60

429x90

429x30

441x61

441x39

440x98

402x01

A36

A42

(412)

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND
Engineers
and
Surveyors

EROSION AND SEDIMENTATION CONTROL PLAN - PHASE 1

Lot 33
Prospect Street
Burlington, Connecticut

September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

SHEET 4 OF 15

REVISED 09/23/21: AS PER CSC REVIEW
REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

N/F
ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

N/F
MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GASKI
#62 STONE ROAD
ZONE R-44

North

N08° 14' 06"W
467.86'

N10° 05' 36"W
244.97'

N08° 10' 16"W
334.39'

N08° 40' 16"W
325.53'

N12° 22' 26"W
125.03'

N03° 34' 16"W
84.57'

N63° 00' 15"E
16.80'

N07° 13' 38"W
52.34'

N80° 29' 21"E
234.24'

N83° 28' 41"E
188.05'

N82° 24' 21"E
134.37'

N61° 41' 31"E
117.43'

N40° 09' 21"E
121.90'

N26° 12' 51"E
77.30'

N41° 30' 21"E
136.08'

N15° 55' 51"E
82.65'

EXIST.
1" PIPE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
FILL
STOCKPILE

PROCESSED
GRAVEL
STOCKPILE

EXISTING
SEPTIC SAND
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
EDGE OF
CLEARING

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

100' UPLAND
REVIEW AREA

FLAGGED
INLAND
WETLANDS

EXISTING STONE WALL

"RESTORED FIELD"

PROPOSED
CONSTRUCTION
LAYDOWN AREA

30' WIDE
CONSTRUCTION
ACCESS

TEMPORARY SEDIMENT TRAP #1
1,820 S.F. x 2' DEEP (3:1 SIDESLOPES)
STORAGE VOLUME = 2,770 FT³
(PHASE 2)

PVC RISER OUTLET
(TYPICAL)
(SEE DETAIL SHEET)

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
6'W x 8'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 401.50

CRUSHED STONE
INFILTRATION TRENCH
W/ 8" PVC (PERF) PIPE

PROPOSED STORM WATER
QUALITY BASIN #1
(TOP BERM ELEV. 402.50)

PROPOSED ¾" CRUSHED STONE
INFILTRATION TRENCH
(SEE DETAIL)

PROPOSED
OUTLET STRUCTURE #1
TOP GRATE = 401.00
6" ORIFICE = 398.50
18" OUTLET = 395.00

2% SLOPED GRASS
INFILTRATION SHELF

SLOPE ABOVE SILT FENCE
TO BE TEMPORARY MULCHED

PROPOSED DOUBLE ROW OF
GEO-TEXTILE SILTFENCE
INSTALL WOODCHIPS BETWEEN
ROWS (SEE DETAIL)

LIMIT OF GRADING FOR
STORMWATER QUALITY
BASIN INSTALLATION

STORMWATER QUALITY BASIN AND
SWALE AREAS SHALL BE RESTORED
WITH TOPSOIL, SEED, AND SLOPES
LINED WITH TENSAR NORTH AMERICAN
GREEN S75 OR EQUAL EROSION
CONTROL FABRIC

PROPOSED GEO-TEXTILE
SILTFENCE

LIMIT OF CLEARING
(TYPICAL)

- COMPLETION OF GRADING OF WEST ARRAY
- INSTALLATION OF WEST ARRAY PANELS
- STABILIZATION OF GROUND SURFACES
(ALL DURING PHASE 2)

INSTALL GRAVEL ACCESS ROAD
AT END OF PHASE 2 CONSTRUCTION

PROPOSED
TEMPORARY
GEO-TEXTILE
SILTFENCE

PROPOSED
TOPSOIL STOCKPILE FOR
EAST & WEST ARRAY

AREA TO REMAIN IN GRUBBED STATE
NO GRADING ON EAST SOLAR ARRAY
DURING PHASE 2

PROPOSED
TEMPORARY
GEO-TEXTILE
SILTFENCE

PROPOSED SWALE SHALL
BE LINED WITH TENSAR
NORTH AMERICAN GREEN
S75 OR EQUAL EROSION
CONTROL FABRIC

PROPOSED GEO-TEXTILE
SILTFENCE CHECK DAMS
BACKED WITH
12" HIGH SEDIMENT LOG

PROPOSED GEO-TEXTILE
SILTFENCE BACKED
12" HIGH SEDIMENT LOG

PROPOSED GRASS-LINED
SWALE TO PROPOSED
STORM WATER QUALITY
BASIN

TEMPORARY SEDIMENT TRAP #2
2,530 S.F. x 2' DEEP (3:1 SIDESLOPES)
STORAGE VOLUME = 4,025 FT³
(PHASE 2, 3A, 3B)

PVC RISER OUTLET
(TYPICAL)
(SEE DETAIL SHEET)

PROPOSED
415' 18" CPP
@ 0.7%

PROPOSED 10' x 10'
MODIFIED GRADE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED
18" RCP FLARED END
FL = 392.00

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
10'W x 10'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 399.50

PROPOSED
175' - 18" CPP
@ 5.1%

PROPOSED
18" RCP FLARED END
FL = 379.00

PROPOSED
OUTLET STRUCTURE #2
TOP GRATE = 398.50
6' WIDE x 46" HIGH WEIR = 392.80
18" OUTLET = 388.00

PROPOSED STORM WATER
QUALITY BASIN #2
(TOP 10' WIDE BERM ELEV. 401.00)

PROPOSED 15' x 15'
INTERMEDIATE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

2% SLOPED GRASS
INFILTRATION SHELF

PROPOSED DOUBLE ROW OF
GEO-TEXTILE SILTFENCE
INSTALL WOODCHIPS BETWEEN
ROWS (SEE DETAIL)

SWALE

APPARENT LEDGE
OUTCROPS

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

48" WHITE
PINE

BOULDER

COOL
BOULDER

BOULDER
SPLIT BY TREE

428x67

429x28

428x63

429x46

429x77

428x60

429x57

429x60

429x90

429x30

441x61

441x39

440x98

402x01

EXISTING
SILT FENCE

EXISTING
GRAVEL
DRIVE

EXISTING
6" PVC OUTLET
FL - 365.52

EXISTING 3' MINUS NATIVE
ROUND STONE BERM

EXISTING TEMPORARY
SEDIMENT TRAP
336 C.Y. TO ELEV. 367.00
(327.6 C.Y. REQUIRED)
HIGH WATER MARK 364.95

EXISTING CRUSHED STONE
INFILTRATION TRENCH
W/ 6" PVC (PERF) PIPE

EXISTING SILT FENCE
(RE-ERECT AND STAPLE
SILT FENCE AS REQUIRED)

EXISTING
MODIFIED GRADE
NATIVE ROUND STONE
TOP SPILLWAY
ELEV. 367.36

EXISTING
FILL
STOCKPILE

FLAGGED INLAND
WETLANDS
(TYPICAL)

100' UPLAND
REVIEW AREA

WF 62 WF 63 WF 64 WF 65 WF 66 WF 67 WF 68 WF 69 WF 70 WF 71 WF 72 WF 73 WF 74 WF 75 WF 76 WF 77 WF 78 WF 79 WF 80 WF 81 WF 82 WF 83 WF 84 WF 85 WF 86 WF 87 WF 88 WF 89 WF 90 WF 91

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND
Engineers and Surveyors

EROSION AND SEDIMENTATION CONTROL PLAN - PHASE 2
Lot 33
Prospect Street
Burlington, Connecticut

September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

REVISED 09/23/21: AS PER CSC REVIEW
REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

SHEET 5 OF 15

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

N/F
ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

N/F
MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GASKI
#62 STONE ROAD
ZONE R-44

North

N08° 14' 06"W
467.86'

N10° 05' 36"W
244.97'

N08° 10' 16"W
334.39'

N08° 40' 16"W
325.53'

N12° 22' 26"W
125.03'

N03° 34' 16"W
84.57'

N63° 00' 15"E
16.80'

N07° 13' 38"W
52.34'

N80° 29' 21"E
234.24'

N83° 28' 41"E
188.05'

N82° 24' 21"E
134.37'

N61° 41' 31"E
177.45'

N40° 09' 21"E
121.90'

N26° 12' 51"E
77.30'

N41° 30' 21"E
139.09'

N15° 55' 51"E
82.65'

EXIST.
1" PIPE

440x96

441x61

441x39

428x67

429x28

428x63

429x46

429x77

428x60

429x57

429x90

429x30

BOULDER

COOL
BOULDER

APPARENT LEDGE
OUTCROPS

BOULDER
SPLIT BY TREE

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

#

EXISTING
TOPSOIL
STOCKPILE

EXISTING
SEPTIC SAND
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
TOPSOIL
STOCKPILE

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
FILL
STOCKPILE

PROCESSED
GRAVEL
STOCKPILE

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

100' UPLAND
REVIEW AREA

EXISTING STONE WALL

"RESTORED FIELD"

FLAGGED
INLAND
WETLANDS

EXISTING
GRAVEL
DRIVE

EXISTING
SILT FENCE

EXISTING
6" PVC OUTLET
FL - 393.82

EXISTING CRUSHED STONE
INFILTRATION TRENCH
W/ 6" PVC (PERF) PIPE

EXISTING 3' MINUS NATIVE
ROUND STONE BERM

EXISTING TEMPORARY
SEDIMENT TRAP
336 C.Y. TO ELEV. 367.00
(321.6 C.Y. REQUIRED)
HIGH WATER MARK 364.95

EXISTING SILT FENCE
(RE-ERECT AND STAPLE
SILT FENCE AS REQUIRED)

EXISTING
MODIFIED GRADE
NATIVE ROUND STONE
TOP SPILLWAY
ELEV. 367.36

EXISTING
FILL
STOCKPILE

FLAGGED INLAND
WETLANDS
(TYPICAL)

EXISTING
TREELINE
(TYPICAL)

CRUSHED STONE
INFILTRATION TRENCH
W/ 8" PVC (PERF) PIPE

6" PVC OUTLET
FL - 370.05

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
6'W x 8'L; 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 401.50

PROPOSED STORM WATER
QUALITY BASIN #1
(TOP BERM ELEV. 402.50)

PROPOSED
⅜" CRUSHED STONE
INFILTRATION TRENCH
(SEE DETAIL)

PROPOSED
OUTLET STRUCTURE #1
TOP GRATE = 401.00
6" ORIFICE = 398.50
18" OUTLET = 395.00

402x01

2% SLOPED GRASS
INFILTRATION SHELF

SLOPE ABOVE SILT FENCE
TO BE TEMPORARY MULCHED

PROPOSED DOUBLE ROW OF
GEO-TEXTILE SILTFENCE
INSTALL WOODCHIPS BETWEEN
ROWS (SEE DETAIL)

LIMIT OF GRADING FOR
STORMWATER QUALITY
BASIN INSTALLATION

STORMWATER QUALITY BASIN AND
SWALE AREAS SHALL BE RESTORED
WITH TOPSOIL, SEED, AND SLOPES
LINED WITH TENSAR NORTH AMERICAN
GREEN S75 OR EQUAL EROSION
CONTROL FABRIC

PROPOSED
GEO-TEXTILE
SILTFENCE

LIMIT OF CLEARING
(TYPICAL)

30' WIDE
CONSTRUCTION
ACCESS

PROPOSED
CONSTRUCTION
LAYDOWN AREA

EXISTING
EDGE OF
CLEARING

TEMPORARY SEDIMENT TRAP #2
2,530 S.F. x 2' DEEP
STORAGE VOLUME = 4,025 FT³
(PHASE 3A & 3B)

PVC RISER OUTLET
(TYPICAL)
(SEE DETAIL SHEET)

PROPOSED
415' 18" CPP
@ 0.7%

PROPOSED 10' x 10'
MODIFIED GRADE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED
18" RCP FLARED END
FL = 392.00

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
10'W x 10'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 399.50

PROPOSED
175' - 18" CPP
@ 5.1%

PROPOSED
18" RCP FLARED END
FL = 379.00

PROPOSED
OUTLET STRUCTURE #2
TOP GRATE = 399.50
6" WIDE x 46" HIGH WEIR = 392.80
18" OUTLET = 388.00

PROPOSED STORM WATER
QUALITY BASIN #2
(TOP 10' WIDE BERM ELEV. 401.00)

PROPOSED 15' x 15'
INTERMEDIATE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED
TEMPORARY
GEO-TEXTILE
SILTFENCE

PROPOSED
TOPSOIL STOCKPILE
FOR EAST ARRAY
(LOWER PORTION)

TEMPORARY SEDIMENT TRAP #3
3,530 S.F. x 2' DEEP (3:1 SIDESLOPES)
STORAGE VOLUME = 5,200 FT³
(PHASE 3A)

PROPOSED DOUBLE ROW OF
GEO-TEXTILE SILTFENCE
INSTALL WOODCHIPS BETWEEN
ROWS (SEE DETAIL)

PVC RISER OUTLET
(TYPICAL)
(SEE DETAIL SHEET)

- COMPLETION OF GRADING OF EAST ARRAY
- INSTALLATION OF EAST ARRAY PANELS
- STABILIZATION OF GROUND SURFACES
(ALL DURING PHASE 3)

2% SLOPED GRASS
INFILTRATION SHELF

TEMPORARY SEDIMENT TRAP #4
2,950 S.F. x 2' DEEP (3:1 SIDESLOPES)
STORAGE VOLUME = 4,600 FT³
(PHASE 3A & 3B)

PROPOSED SWALE SHALL
BE LINED WITH TENSAR
NORTH AMERICAN GREEN
S75 OR EQUAL EROSION
CONTROL FABRIC

PROPOSED GEO-TEXTILE
SILTFENCE BACKED WITH
12" HIGH SEDIMENT LOG

PVC RISER OUTLET
(TYPICAL)
(SEE DETAIL SHEET)

PROPOSED GEO-TEXTILE
SILTFENCE BACKED WITH
12" HIGH SEDIMENT LOG

PROPOSED GRASS-LINED
SWALE TO PROPOSED
STORM WATER QUALITY
BASIN

PROPOSED
6" PVC SDR-35
CRUSHED STONE (¾")
INFILTRATION TRENCH

100' UPLAND
REVIEW AREA

SWALE

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND
Engineers
and
Surveyors

EROSION AND SEDIMENTATION CONTROL
PLAN - PHASE 3
Lot 33
Prospect Street
Burlington, Connecticut

September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

REVISED 09/23/21: AS PER CSC REVIEW
REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

N/F
ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

N/F
MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GASKI
#62 STONE ROAD
ZONE R-44

North

N08° 14' 06"W
467.86'

N10° 05' 36"W
244.97'

N08° 10' 16"W
334.39'

N08° 40' 16"W
325.53'

N12° 22' 26"W
125.03'

N03° 34' 16"W
84.57'

N63° 00' 15"E
16.80'

N07° 13' 38"W
52.34'

N80° 29' 21"E
234.24'

N83° 28' 41"E
188.05'

N82° 26' 21"E
134.37'

N61° 41' 31"E
177.43'

N40° 09' 21"E
121.90'

N26° 12' 51"E
7.30'

N41° 36' 21"E
136.08'

N15° 55' 51"E
82.65'

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
6'W x 8'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 401.50

PROPOSED STORM WATER
QUALITY BASIN #1
(TOP BERM ELEV. 402.50)

PROPOSED ¾" CRUSHED STONE
INFILTRATION TRENCH
(SEE DETAIL)

PROPOSED
OUTLET STRUCTURE #1
TOP GRATE = 401.00
6" ORIFICE = 398.50
18" OUTLET = 395.00

CRUSHED STONE
INFILTRATION TRENCH
W/ 8" PVC (PERF) PIPE

6" PVC OUTLET
FL. 370.05

EXISTING
TOPSOIL
STOCKPILE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
SEPTIC SAND
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
TREELINE
(TYPICAL)

WETLANDS AREA
25,741 S.F.
0.59 ACRES

100' UPLAND
REVIEW AREA

EXISTING
SILT FENCE

EXISTING
GRAVEL
DRIVE

30' WIDE
CONSTRUCTION
ACCESS

PROPOSED
CONCRETE
EQUIPMENT PADS

EXISTING
EDGE OF
CLEARING

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING 3" MINUS NATIVE
ROUND STONE BERM

EXISTING TEMPORARY
SEDIMENT TRAP
336 C.Y. TO ELEV. 367.00
(321.6 C.Y. REQUIRED)
HIGH WATER MARK 364.95

EXISTING
FILL
STOCKPILE

EXISTING
FILL
STOCKPILE

EXISTING
6" PVC OUTLET
FL - 365.52

EXISTING CRUSHED STONE
INFILTRATION TRENCH
W/ 8" PVC (PERF) PIPE

PROCESSED
GRAVEL
STOCKPILE

EXISTING SILT FENCE
(RE-ERECT AND STAPLE
SILT FENCE AS REQUIRED)

EXISTING
MODIFIED GRADE
NATIVE ROUND STONE
TOP SPILLWAY
ELEV. 367.36

100' UPLAND
REVIEW AREA

FLAGGED INLAND
WETLANDS
(TYPICAL)

WETLANDS AREA
19,282 S.F.
0.44 ACRES

EXISTING STONE WALL

"RESTORED FIELD"

100' UPLAND
REVIEW AREA

FLAGGED
INLAND
WETLANDS

PROPOSED
415' 18" CPP
@ 0.7%

PROPOSED 10' x 10'
MODIFIED GRADE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED
18" RCP FLARED END
FL = 392.00

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
10'W x 10'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 399.50

PROPOSED
175' - 18" CPP
@ 5.1%

PROPOSED
18" RCP FLARED END
FL = 379.00

229.93' TO
WETLANDS

110.45' TO
WETLANDS

PROPOSED
OUTLET STRUCTURE #2
TOP GRATE = 399.50
6" WIDE x 46" HIGH WEIR = 392.80
18" OUTLET = 388.00

PROPOSED STORM WATER
QUALITY BASIN #2
(TOP BERM ELEV. 401.00)

PROPOSED 15' x 15'
INTERMEDIATE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

319.63' TO EDGE
OF WILDCAT BROOK

193.34' TO
WETLANDS

344.45' TO EDGE
OF WILDCAT BROOK

171.5' TO
WETLANDS

PROPOSED GRASS-LINED
SWALE TO PROPOSED
STORM WATER QUALITY
BASIN

SWALE

BOULDER

COOL
BOULDER

428x30

429x57

429x60

429x90

428x67

429x28

428x63

429x46

429x77

429x30

APPARENT LEDGE
OUTCROPS

185.02'

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

140.62'

90.85'

57.52'

50.00'

209.76'

167.06'

191.48'

119.72'

126.09'

109.44'

441x39

441x61

440x98

MT WHITE
PINE

PROPOSED
6" PVC SDR-35
CRUSHED STONE (¾")
INFILTRATION TRENCH

191.72' TO EDGE
OF WILDCAT BROOK

111.48' TO
WETLANDS

BOULDER
SPLIT BY TREE

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

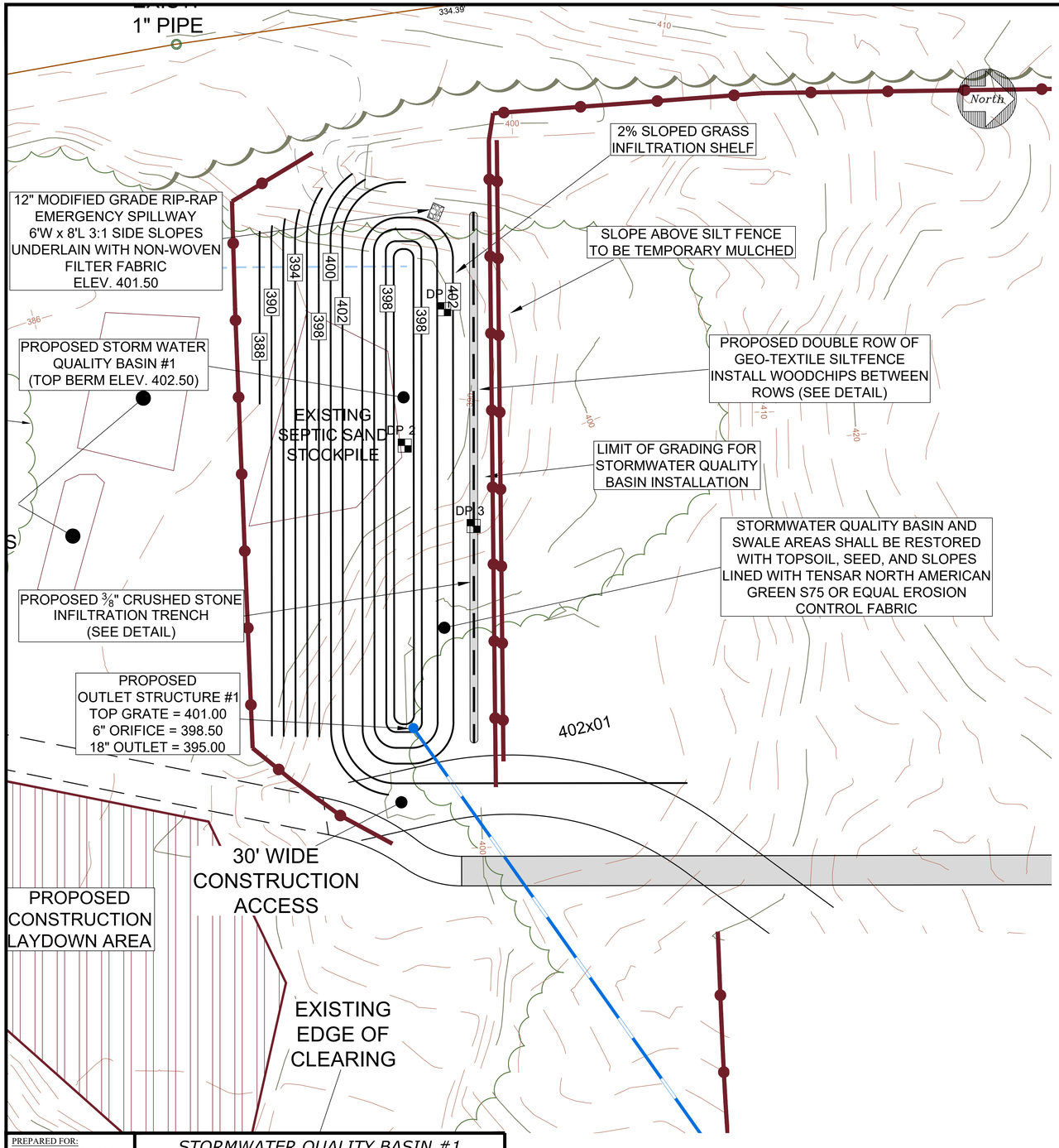
PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

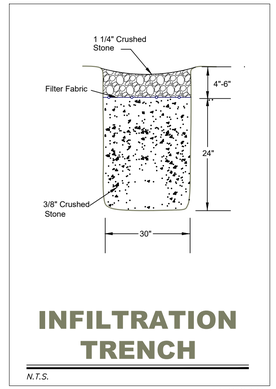
FINAL GRADING PLAN
Lot 33
Prospect Street
Burlington, Connecticut
September 1, 2020

R. R. HILTBRAND
Engineers and Surveyors

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 04/07/21 - REVISED LANDSCAPING
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT

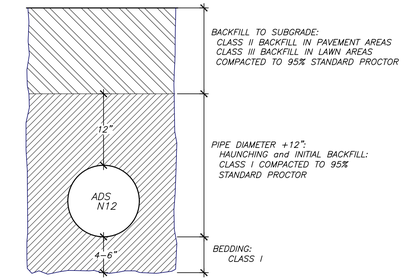




INFILTRATION TRENCH

N.T.S.

REV. 11/27/2013



CLASS I BACKFILL:
ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN-GRADED WITH LITTLE OR NO FINES (¼ INCH TO 2½ INCHES IN SIZE).

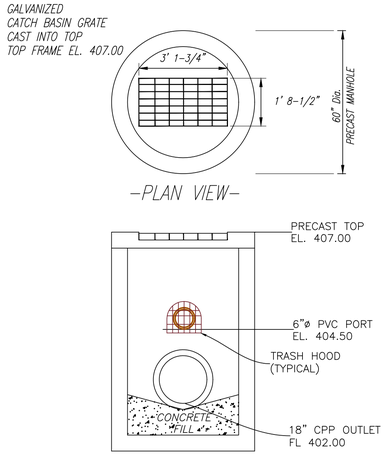
CLASS II BACKFILL:
CLEAN, COARSE-GRAINED MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/SAND MIXTURES (1 ½inches max. size).

CLASS III BACKFILL:
COARSE-GRAINED MATERIALS WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS. GRAVEL OR SAND MUST COMPRISE MORE THAN 50 PERCENT OF CLASS III MATERIALS (1 ½INCHES MAX. SIZE).

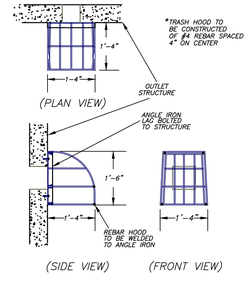
ADS N-12 (CPP) TRENCH DETAIL N.T.S.

DEEP TEST PITS - JANUARY 21, 2021

DP #1	0 - 2"	FOREST LITTER
EL. 403.0	2 - 10"	BROWN MEDIUM SAND
	10 - 60"	BROWN COARSE SAND & GRAVEL
DP #2	0 - 48"	MIXED NATIVE FILL
EL. 401.0		FINE TO MEDIUM SAND & GRAVEL
DP #3	0 - 2"	FOREST LITTER
EL. 404.0	2 - 70"	BROWN FINE/MEDIUM SAND & GRAVEL (LARGE ROCKS 24"-30")
		GROUNDWATER @ 63" (EL. 398.8±)



-SECTION-
PROPOSED OUTLET STRUCTURE #1



TRASH HOOD DETAIL
N.T.S.

GRAPHIC SCALE
30 15 0 30 60
1 Inch = 30 Feet

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

STORMWATER QUALITY BASIN #1
Lot 33
Prospect Street
Burlington, Connecticut
January 15, 2021

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

SEE CONSTRUCTION SEQUENCE ON DETAILS SHEET (PAGE 12 OF 15)

North

OSED
" CPP
.7%

PROPOSED 10' x 10' MODIFIED GRADE RIP-RAP OR NATIVE BOULDER LEVEL SPREADER UNDERLAIN WITH NON-WOVEN FILTER FABRIC

PROPOSED 18" RCP FLARED END FL = 392.00

12" MODIFIED GRADE RIP-RAP EMERGENCY SPILLWAY 10'W x 10'L 3:1 SIDE SLOPES UNDERLAIN WITH NON-WOVEN FILTER FABRIC ELEV. 399.50

PROPOSED 175' - 18" CPP @ 5.1%

PROPOSED 18" RCP FLARED END FL = 379.00

229.93' TO WETLANDS

110.45' TO WETLANDS

PROPOSED OUTLET STRUCTURE #2 TOP GRATE = 399.50 6" WIDE x 46" HIGH WEIR = 392.80 18" OUTLET = 388.00

PROPOSED STORM WATER QUALITY BASIN #2 (TOP 10' WIDE BERM ELEV. 401.00)

PROPOSED 15' x 15' INTERMEDIATE RIP-RAP OR NATIVE BOULDER LEVEL SPREADER UNDERLAIN WITH NON-WOVEN FILTER FABRIC

319.63' TO EDGE OF WILDCAT BROOK

COOL BOULDER

STORMWATER QUALITY BASIN AND SWALE AREAS SHALL BE RESTORED WITH TOPSOIL, SEED, AND SLOPES LINED WITH TENSAR NORTH AMERICAN GREEN S75 OR EQUAL EROSION CONTROL FABRIC

BOULDER

PROPOSED DOUBLE ROW OF GEO-TEXTILE SILTFENCE INSTALL WOODCHIPS BETWEEN ROWS (SEE DETAIL)

PROPOSED CRUSHED STONE INFILTRATION TRENCH (SEE DETAIL)

BOULDER

2% SLOPED GRASS INFILTRATION SHELF

48" WHI PINE

DP 3

DP 2

DP 1

BOULDER

SWALE

PROPOSED GEO-TEXTILE SILTFENCE BACKED WITH 12" HIGH SEDIMENT LOG

193.34' TO WETLAND

344.45' TO EDGE OF WILDCAT BROOK

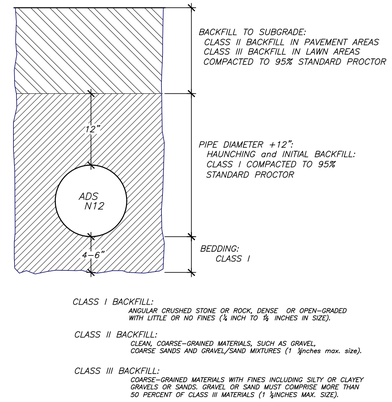
171.5' TO WETLANDS

PROPOSED GRASS-LINED SWALE TO PROPOSED STORM WATER QUALITY BASIN

FLAGGED INLAND WETLANDS

WETLANDS AREA
190,131 S.F.
4.36 ACRES

GRAPHIC SCALE
30 15 0 30 60
1 Inch = 30 Feet

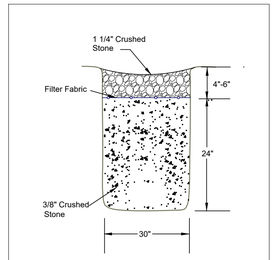


CLASS I BACKFILL:
ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN-GRADED WITH LITTLE OR NO FINES (¼ INCH TO 1½ INCHES IN SIZE).

CLASS II BACKFILL:
CLEAN, COARSE-GRAINED MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/SAND MIXTURES (1 ½inches max. size).

CLASS III BACKFILL:
COARSE-GRAINED MATERIALS WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS. GRAVEL OR SAND MUST COMPRISE MORE THAN 50 PERCENT OF CLASS III MATERIALS (1 ½INCHES MAX. SIZE).

ADS N-12 (CPP) TRENCH DETAIL N.T.S.



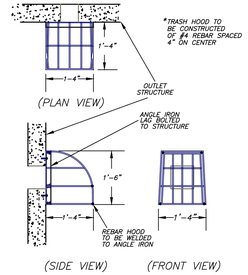
INFILTRATION TRENCH

N.T.S.

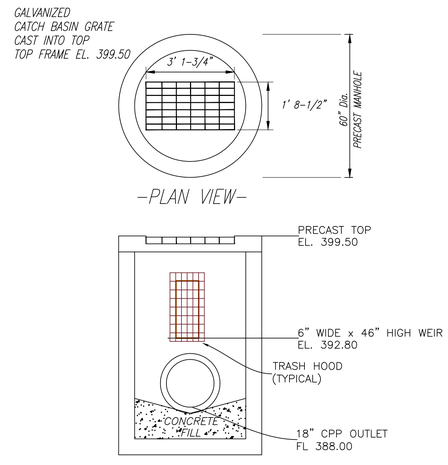
REV. 11/27/2013

DEEP TEST PITS - JANUARY 21, 2021

DP #1	(IN PATH)	
EL. 402.0	0 - 20"	BROWN FINE TO MEDIUM SAND
	20 - 62"	TAN MEDIUM TO COARSE SAND
	62 - 140"	TAN COARSE SAND & GRAVEL
	NO GROUNDWATER	
DP #2	0 - 2"	FOREST LITTER
EL. 400.0	2 - 36"	TAN FINE TO MEDIUM SAND
	36 - 120"	TAN COARSE SAND & GRAVEL
	NO GROUNDWATER	
DP #3	0 - 2"	FOREST LITTER
EL. 400.0	3 - 11"	TOP SOIL
	11 - 26"	ORANGE BROWN FINE SANDY LOAM
	26 - 108"	TAN COARSE SAND & GRAVEL
	GROUNDWATER @ 98" (EL. 392.0±)	



TRASH HOOD DETAIL
N.T.S.



PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

STORMWATER QUALITY BASIN #2
Lot 33
Prospect Street
Burlington, Connecticut
January 15, 2021

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21: FIRST DESIGN SUBMITTAL

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GA
#62 STONE RO
ZONE R-44

North

N10° 05' 36"W
244.97'

N08° 14' 06"W
467.86'

N08° 10' 16"W
334.39'

N08° 40' 16"W
325.53'

N12° 22' 26"W
125.03'

N03° 34' 16"W
84.57'

N63° 00' 15"E
16.80'

N07° 13' 38"W
52.34'

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXIST.
1" PIPE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
SEPTIC SAND
STOCKPILE

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
FILL
STOCKPILE

PROCESSED
GRAVEL
STOCKPILE

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

100' UPLAND
REVIEW AREA

EXISTING
SILT FENCE

EXISTING
GRAVEL
DRIVE

EXISTING
6" PVC OUTLET
FL - 395.52

EXISTING CRUSHED STONE
INFILTRATION TRENCH
W/ 8" PVC (PERF) PIPE

EXISTING 3" MINUS NATIVE
ROUND STONE BERM

EXISTING TEMPORARY
SEDIMENT TRAP
336 C.Y. TO ELEV. 367.00
(321.6 C.Y. REQUIRED)
HIGH WATER MARK 364.95

EXISTING SILT FENCE
(RE-ERECT AND STAPLE
SILT FENCE AS REQUIRED)

EXISTING
MODIFIED GRADE
NATIVE ROUND STONE
TOP SPILLWAY
ELEV. 367.36

FLAGGED INLAND
WETLANDS
(TYPICAL)

EXISTING
TREELINE
(TYPICAL)

EXISTING STONE WALL

"RESTORED FIELD"

FLAGGED
INLAND
WETLANDS

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
6'W x 8'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 401.50

PROPOSED STORM WATER
QUALITY BASIN #1
(TOP BERM ELEV. 402.50)

PROPOSED ¾" CRUSHED STONE
INFILTRATION TRENCH
(SEE DETAIL)

PROPOSED
OUTLET STRUCTURE #1
TOP GRATE = 401.00
6" ORIFICE = 398.50
18" OUTLET = 395.00

30' WIDE
CONSTRUCTION
ACCESS

PROPOSED
CONCRETE
EQUIPMENT PADS

EXISTING
EDGE OF
CLEARING

PROPOSED
415' 18" CPP
@ 0.7%

PROPOSED 10' x 10'
MODIFIED GRADE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED
18" RCP FLARED END
FL = 392.00

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
10'W x 10'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 399.50

PROPOSED
175' - 18" CPP
@ 5.1%

229.93' TO
WETLANDS

PROPOSED
18" RCP FLARED END
FL = 379.00

110.45' TO
WETLANDS

PROPOSED 15' x 15'
INTERMEDIATE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

319.63' TO EDGE
OF WILDCAT BROOK

PROPOSED
OUTLET STRUCTURE #2
TOP GRATE = 399.50
6' WIDE x 46" HIGH WEIR = 392.80
18" OUTLET = 388.00

PROPOSED STORM WATER
QUALITY BASIN #2
(TOP BERM ELEV. 401.00)

193.34' TO
WETLANDS

PROPOSED GRASS-LINED
SWALE TO PROPOSED
STORM WATER QUALITY
BASIN

344.45' TO EDGE
OF WILDCAT BROOK

171.5' TO
WETLANDS

PROPOSED
6" PVC SDR-35
CRUSHED STONE (¾")
INFILTRATION TRENCH

191.72' TO EDGE
OF WILDCAT BROOK

111.48' TO
WETLANDS

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

APPARENT LEDGE
OUTCROPS

BOULDER

COOL
BOULDER

BOULDER
SPLIT BY TREE

48" WHITE
PINE

428x67

429x28

428x63

429x46

429x77

428x80

429x57

429x60

429x90

429x30

441x39

441x61

440x98

N80° 28' 21"E
234.24'

N83° 28' 41"E
188.05'

N87° 24' 21"E
134.37'

N61° 41' 51"E
177.43'

N40° 06' 21"E
121.80'

N26° 12' 51"E
17.30'

N41° 30' 21"E
196.08'

N15° 55' 51"
82.65'

191.48'

209.76'

167.06'

185.02'

140.62'

90.85'

109.44'

119.72'

126.09'

402x01

7%

8%

4:1

SWALE

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND
Engineers
and
Surveyors

GRADING PLAN
Lot 33
Prospect Street
Burlington, Connecticut
September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4546

REVISED 06/29/21: REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 04/07/21 - REVISED LANDSCAPING
REVISED 03/18/21 - REVISED PANEL LAYOUT
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

N/F
ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

N/F
MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GASKI
#62 STONE ROAD
ZONE R-44

North

PLANTING LIST:

SYMBOL	DESCRIPTION	SIZE	QUANTITY
	NORWAY SPRUCE or WHITE PINE	5' - 6' HIGH	156
	SUGAR MAPLE or HERITAGE BIRCH	1.5" - 2" CAL.	18
	CATAWVA RHODODENDRON	24" - 30" HIGH	7

23 EACH MIX OF
5' - 6' HIGH NORWAY SPRUCE
AND
5' - 6' HIGH EASTERN WHITE PINE
(AT 15' ON CENTER)

PROPOSED 8' HIGH
CHAIN LINK FENCE
W/ PRIVACY SLATS
(TYPICAL)

4' HIGH
EARTHEN BERM

6' HIGH NORWAY SPRUCE
TREES ALONG MUTUAL
PROPERTY LINE OFFERED TO
PROPERTY OWNER TO BE
PLANTED PRIOR TO
CONSTRUCTION

6' HIGH
EARTHEN BERM

PROPOSED
8' HIGH GATE

30' WIDE
CONSTRUCTION
ACCESS

PROPOSED
CONCRETE
EQUIPMENT PADS

EXISTING
EDGE OF
CLEARING

14 EACH MIX OF
5' - 6' HIGH NORWAY SPRUCE
AND
5' - 6' HIGH EASTERN WHITE PINE
(AT 15' ON CENTER)

PROPOSED 8' HIGH
CHAIN LINK FENCE
W/ PRIVACY SLATS
(TYPICAL)

PROPOSED 8' HIGH
CHAIN LINK FENCE
ON TOP OF BERM
W/ PRIVACY SLATS
(TYPICAL)

4' HIGH
EARTHEN BERM

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

EXISTING
TOPSOIL
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
FILL
STOCKPILE

PROCESSED
GRAVEL
STOCKPILE

EXISTING STONE WALL

"RESTORED FIELD"

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

FLAGGED
INLAND
WETLANDS

100' UPLAND
REVIEW AREA

APPARENT LEDGE
OUTCROPS

BOULDER

COOL
BOULDER

WT WHITE
PINE

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

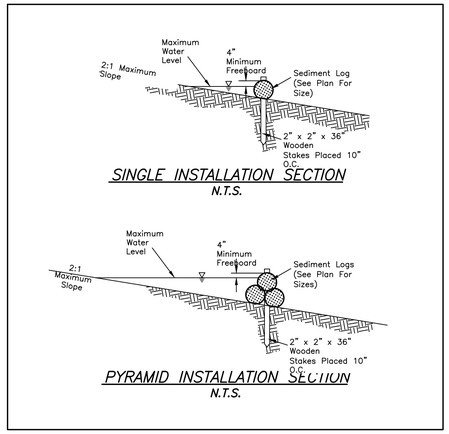
LANDSCAPING PLAN
Lot 33
Prospect Street
Burlington, Connecticut
January 14, 2021

R. R. HILTBRAND
Engineers and Surveyors

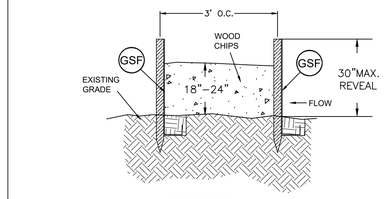
R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

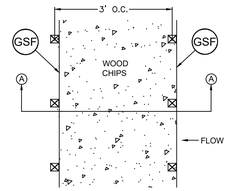
SHEET 11 OF 15

REVISED 08/03/21 - ADDED PRIVACY SLATS TO CHAIN LINK FENCE
REVISED 06/29/21 - REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 04/07/21 - REVISED LANDSCAPING
REVISED 03/18/21 - REVISED PANEL LAYOUT
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT



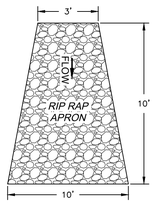
SEDIMENT LOG
N.T.S.

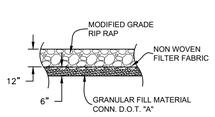




DOUBLE ROW GEO-TEXTILE SILT FENCE INSTALLATION DETAIL

N.T.S.

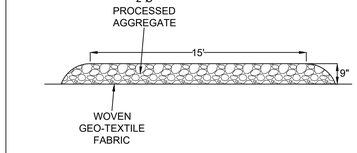




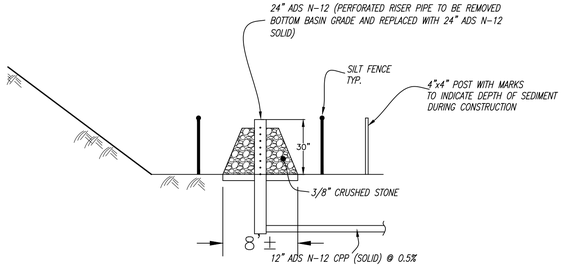
OP

RIP RAP APRON FOR 18" RCP OUTFALLS

N.T.S.



PROPOSED GRAVEL ACCESS ROAD
N.T.S.



TEMPORARY SEDIMENT TRAP OUTLET DURING CONSTRUCTION

TST

N.T.S.

Construction Sequence
Burlington Solar One

Phase 1 (Clearing and Site Erosion Controls)

1. Call Before You Dig at 1-800-922-4455 or 811 prior to any construction.
2. Survey flag limits of clearing.
3. Conduct a pre-construction meeting with land clearer to discuss operations and limits.
4. Clear trees and brush. 15.4 Acres
5. Only stump and grub areas for perimeter erosion control measures and east and west stormwater quality basins. 5.0 Acres
6. Install perimeter erosion control measures. Measures shall be inspected weekly or after all rainfall events of 0.5" rainfall or greater. Fix any defects in erosion control measures immediately.
7. Strip topsoil within the stormwater quality basin areas and stockpile in the existing topsoil pile (unscreened) within the existing earth removal operation.
8. Complete earthwork for east and west stormwater quality basins.
9. Install drainage components of east and west stormwater quality basins.
10. Install crushed stone infiltration trench above east and west stormwater quality basins.
11. Restore east and west stormwater quality basin areas and slopes with topsoil.
12. Seed bottom of basins and slopes with New England Wetlands Mix.
13. Use erosion control fabric (Tensar North American Green S75 or equal) on all slopes greater than 5:1.
14. Erect temporary erosion control measures up-slope of both stormwater quality basins as shown.
15. Up-slope temporary grading to be covered with hay mulch for temporary protection until next phase of construction.

TEMPORARY SEDIMENT TRAP SIZING (WEST ARRAY)

AREA = 6.3 ACRES
DISTURBANCE TIMEFRAME - 6 MONTHS OR LESS
FAILURE WILL NOT RESULT IN DAMAGE TO PROPERTY

(A) AVERAGE EROSION 50 TONS PER ACRE PER YEAR
(DR) DELIVERY RATIO - 37%
(TE) TRAP EFFICIENCY - 80%
γ - 110 LBS PER FT^3

VOLUME = 6.3 (50) (0.80) (2000 LBS/TON) / (110) (43,560) = 0.105 AcFt = 4,581 FT^3

(2) SEDIMENT TRAPS COMBINED #1 & #2 = 6,795 FT^3

Phase 2 (West Array)

1. Stump and grub remainder of the site. 10.4 Acres
2. All stumps, etc., to be ground and removed off-site.
3. Install Temporary Sediment Traps #1 and #2.
4. Erect temporary erosion control measures on east array as shown.
5. Strip and stockpile topsoil as required to complete west array grading. Topsoil pile to be protected with geo-textile silt fence. Stockpile time frame shall be short term. (2 weeks or less)
6. Complete grading for the west array as shown. East array shall remain un-graded during west array construction.
7. Restore all graded areas with topsoil, 6" minimum depth. Temporary hydroseed area.
8. Install west array solar panels and associated appurtenances.
9. Remove Temporary Sediment Trap #1. (Temporary Sediment Trap #2 to remain for Phase 2)
10. Hydro-seed west array area with wildflower mix upon completion of solar panel installation.
11. Maintain down-slope erosion control measures until turf has been established.
12. Construct gravel access road at end of Phase 2 construction.

Phase 3 (East Array)

1. Install Temporary Sediment Trap #3 and #4. Remove accumulated sediment from West Array construction activities from Temporary Sediment Trap #2
2. Strip and stockpile topsoil as required to complete east array grading.
3. Complete grading for the east array as shown.
4. Install northern half of east array.
5. Stabilize northern half of east array with 6" of topsoil. Temporary hydroseed area.
6. Remove Temporary Sediment Trap #3
7. Install southern half of east array solar panels and associated appurtenances.
8. Stabilize southern half of east array with 6" of topsoil.
9. Remove Temporary Sediment Traps #2 and #4.
10. Restore all graded areas with topsoil, 6" minimum depth.
11. Hydro-seed east array area with wildflower mix upon completion of solar panel installation.
12. Maintain down-slope erosion control measures until turf has been established.

Phase 4 (Perimeter Limit of Disturbance)

1. Complete restoration of all perimeter areas with wildflower mix.
2. Complete supplemental landscaping for buffers to abuttors and subject property.
3. Install fencing.
4. Install equipment pad and underground utilities to pole location on Prospect Street.
5. Maintain all erosion control measures until turf all up-slope areas have been stabilized.

TEMPORARY SEDIMENT TRAP SIZING (EAST ARRAY)

AREA = 4.3 ACRES (NORTH) - 2.75 ACRES (SOUTH)
DISTURBANCE TIMEFRAME - 3 MONTHS OR LESS
FAILURE WILL NOT RESULT IN DAMAGE TO PROPERTY

(A) AVERAGE EROSION 50 TONS PER ACRE PER YEAR
(DR) DELIVERY RATIO - 37%
(TE) TRAP EFFICIENCY - 80%
γ - 110 LBS PER FT^3

VOLUME NORTH = 4.3 (50) (0.80) (2000 LBS/TON) / (110) (43,560) = 0.072 AcFt = 3,127 FT^3

SEDIMENT TRAP #3 = 5,200 FT^3

VOLUME SOUTH = 2.75 (50) (0.80) (2000 LBS/TON) / (110) (43,560) = 0.046 AcFt = 2,000 FT^3

(2) SEDIMENT TRAPS COMBINED #2 & #4 = 8,625 FT^3

REVISED 07/30/21 - AS PER DEEP COMMENTS
REVISED 06/29/21 - REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT

NEW ENGLAND WETLAND PLANTS, INC
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites

Botanical Name	Common Name	Indicator
Elymus riparius	Riverbank Wild Rye	FACW
Schizachyrium scoparium	Little Bluestem	FACU
Festuca rubra	Red Fescue	FACU
Andropogon gerardii	Big Bluestem	FAC
Panicum virgatum	Switch Grass	FAC
Vernonia noveboracensis	New York Ironweed	FACW+
Agrostis perennans	Upland Bentgrass	FACU
Bidens frondosa	Beggar Ticks	FACW
Eupatorium maculatum (Eutrochium maculatum)	Spotted Joe Pye Weed	OBL
Eupatorium perfoliatum	Boneset	FACW
Aster novae-angliae (Symphyotrichium novae-angliae	New England Aster	FACW-
Scirpus cyperinus	Wool Grass	FACW
Juncus effusus	Soft Rush	FACW+

PRICE PER LB. $37.00 MIN. QUANITY 3 LBS. TOTAL: $111.00 APPLY: 35 LBS/ACRE :1250 sq ft/lb

The New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites contains a selection of native grasses and wildflowers designed to colonize generally moist, recently disturbed sites where quick growth of vegetation is desired to stabilize the soil surface. It is an appropriate seed mix for ecologically sensitive restorations that require stabilization as well as long-term establishment of native vegetation. This mix is particularly appropriate for detention basins that do not hold standing water. Many of the plants in this mix can tolerate infrequent inundation, but not constant flooding. The mix may be applied by hand, by mechanical spreader, or by hydro-seeder. After sowing, lightly rake, roll or cultipack to insure good seed-to-soil contact. Best results are obtained with a Spring or late Summer seeding. Late Fall and Winter dormant seeding requires an increase in the application rate. A light mulching of clean, weed-free straw is recommended

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is $/bulk pound, FOB warehouse, Plus SH and applicable taxes.

SEED MIX FOR BOTTOM OF INFILTRATION BASINS

NEW ENGLAND WETLAND PLANTS, INC
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Conservation/Wildlife Mix

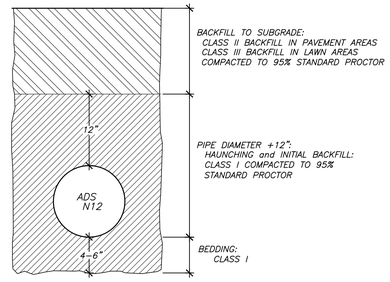
Botanical Name	Common Name	Indicator
Elymus virginicus	Virginia Wild Rye	FACW-
Schizachyrium scoparium	Little Bluestem	FACU
Andropogon gerardii	Big Bluestem	FAC
Festuca rubra	Red Fescue	FACU
Sorghastrum nutans	Indian Grass	UPL
Panicum virgatum	Switch Grass	FAC
Chamaecrista fasciculata	Partridge Pea	FACU
Desmodium canadense	Showy Tick Trefoil	FAC
Asclepias tuberosa	Butterfly Milkweed	NI
Bidens frondosa	Beggar Ticks	FACW
Eupatorium purpureum (Eutrochium maculatum)	Purple Joe Pye Weed	FAC
Rudbeckia hirta	Black Eyed Susan	FACU-
Aster pilosus (Symphyotrichum pilosum)	Heath (or Hairy) Aster	UPL
Solidago juncea	Early Goldenrod	

PRICE PER LB. $39.50 MIN. QUANITY 2 LBS. TOTAL: $79.00 APPLY: 25 LBS/ACRE :1750 sq ft/lb

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, wildflowers, and legumes
For both good erosion control and wildlife habitat value. The mix is designed to be a no maintenance seeding, and is appropriate for cut and fill slopes, detention basin side slopes, and disturbed areas adjacent to commercial and residential projects.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is $/bulk pound, FOB warehouse, Plus SH and applicable taxes.

SEED MIX FOR INFILTRATION BASIN SLOPES & OUTSIDE OF FENCE TO LIMIT OF DISTURBANCE



CLASS I BACKFILL:
ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN-GRADED WITH LITTLE OR NO FINES (¼ INCH TO 1½ INCHES IN SIZE).

CLASS II BACKFILL:
CLEAN, COARSE-GRAINED MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/SAND MIXTURES (1 ½inches max. size).

CLASS III BACKFILL:
COARSE-GRAINED MATERIALS WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS. GRAVEL OR SAND MUST COMPRISE MORE THAN 50 PERCENT OF CLASS III MATERIALS (1 ½INCHES MAX. SIZE).

ADS N-12 (CPP) TRENCH DETAIL N.T.S.

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

SITE DETAILS
Lot 33
Prospect Street
Burlington, Connecticut
September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

DESIGN REFERENCE:

SEDIMENT & EROSION CONTROL BASED ON 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL D.E.P. BULLETIN 34 BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

Erosion & Sediment Controls and Stabilization Practices

a. Temporary seeding.
b. Mulching.
c. Stone Rip-rap.

During construction, sheet runoff from the site will be filtered through hay bale barriers and silt fences. All storm drain inlets shall be provided with barrier filters. Stone rip-rap shall be provided at the outlets of drainage pipe in which erosive velocities are encountered.

Off Site Vehicle Tracking

Stabilized construction entrances will be installed at all proposed entrances.

Installation, Maintenance and Inspection Procedures of Erosion & Sediment Controls

A. General–

These are the general inspection and maintenance practices that will be used to implement the plan.

– The smallest practical portion of the site will be denuded at one time.

– All erosion control measures will be inspected at least once a week and following any storm event of 0.25 inches or greater.

– All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of the report.

– Built up sediment will be removed from the silt fence or hay bale barriers when it has reached one third the height of the of the fence or barrier.

– A maintenance inspection report will be made after each inspection.

– The contractor's site superintendent will be responsible for inspections, maintenance and repair activities, and completing the inspection and maintenance report.

– R.R. Hiltbrand Engineers & Surveyors shall inspect the site on a periodic basis to assure compliance with the plan.

B. Filters –

1. Straw/ hay bales
   a. Sheet Flow Applications
      1. Bales shall be placed in a single row , lengthwise on the contour, with the ends of the adjacent bales tightly abutting one another.
      2. All bales shall be either wire bound or string tied. Bales shall be installed so that the bindings are oriented around the sides rather than along the tops and bottoms of the bales to prevent deterioration of the bindings.
      3. The barrier shall be entrenched and backfilled. A trench shall be excavated the width of a bale and the length of the proposed barrier to a minimum depth of (4) inches. After the bales are staked and chinked, the excavated soil shall be backfilled against the barrier. Backfil soil shall conform to the ground level on the downhill side and shall be built–up to (4) inches against the uphill side of the barrier. Ideally, bales should be placed ten (10) feet away from the toe of slope.
      4. Each bale shall be securely anchored by at least two (2) stakes or rebars driven through the bale. The first stake in each bale shall be driven toward the previously laid bale to force the bales together. Stakes and rebars shall be driven deep enough into the ground to securely anchor the bales.
      5. The gaps between bales shall be chinked (filled by wedging) with straw/hay to prevent water from escaping between the bales.
2. Silt Fence
   a. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester or ethylene yarn and shall be certified by the manufacturer or supplier as conforming to the following requirements.

Physical Property Test Requirements

Filtering Efficiency ASTM 5.41 75% minimum

Grab Tensile Strength ASTM D4632 100lbs.

Elongation & Failure ASTM D4632 15%

Puncture Strength ASTM 4833 50 lbs.

Flow Rate ASTM D4491 0.2gal./ft2/min.

Ultra–Violet Radiation Stability % ASTM D4355 70% after 500 hours of exposure

b. The height of a silt fence shall not exceed thirty (30) inches above grade.

c. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at the support posts, with a min. six (6) inch overlap, and securely sealed.

d. Posts shall be spaced a maximum of ten (10) feet apart at the barrier location and driven securely into the ground (min. of 12 inches).

e. A trench shall be excavated approximately six (6) inches wide and six (6) inches deep along the line of posts and upslope from the barrier.

f. When 'standard strength' filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least one inch long, tie wires or hog rings. The wire shall extend no more than 30 inches above the original ground surface.

g. The 'standard strength' filter fabric shall be stapled or wired to the fence, and eight (8) inches of the fabric shall be extended into the trench. The fabric shall not extend more than 30 inches above the original ground surface.

h. When 'extra strength' filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case the filter fabric is stapled or wired directly to the posts with all other provisions of item 'g' applying.

i. The trench shall be backfilled and the soil compacted over the filter fabric.

j. Silt fences shall be removed when they have served their useful purpose, but not before the upslope areas have been permanently stabilized.

Sequence of Installation

Sediment barriers shall be installed prior to any soil disturbance of the contributing drainage area above them.

Maintenance

a. Straw/ hay bale barrier and silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. They shall be repaired if there are any signs of erosion or sedimentation below them. Any required repairs shall be made immediately. If there are signs of undercutting at the center or the ends, or impounding of large volumes of water behind them, sediment barriers shall be replaced with a temporary check dam.

b. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly.

c. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately (1/3) the height of the barrier.

d. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

C. Mulching

1. Timing

In order for mulch to be effective, it must be in place prior to major storm events There are two (2) types of standards which shall be used to assure this.

a. Apply mulch prior to any storm event.

This is applicable when working within 100 feet of wetlands. It will be necessary to closely monitor weather predictions, usually by contacting the National Weather Service in Massachusetts (508– 822– 0634), to have adequate warning of significant storms.

b. Required mulching within a specified time period.

The time period can range from 14 to 21 days of inactivity on an area, the length of time varying with site conditions. Professional judgment shall be used to evaluate the interaction of site conditions (soil erodibility, season of year, extent of disturbance, proximity to sensitive resources, etc.) and the potential impact of erosion on adjacent areas to choose an appropriate time restriction.

2. Guidelines for winter mulch application.

When mulch is applied to provide protection over winter (past the growing season) it shall be at a rate of 6000 lb. of hay or straw per acre. A tackifier may be added to the mulch.

3. Maintenance

All mulches must be inspected periodically, in particular after rain storms, to check for erosion. If less than 90% of the soil surface is covered by mulch, additional mulch shall be immediately applied.

D. Temporary Grass Cover

1. Seedbed Preparation

Apply fertilizer at the rate of 300 lb. / acre of 10–10–10. Apply limestone (equivalent to 50% calcium plus magnesium oxide) at a rate of (1) tons/ acre.

2. Seeding

a. Utilize annual rye grass at a rate of 40 lb./ acre.

b. Where the soil has been compacted by construction operations, loosen soil to a depth of two (2) inches before applying fertilizer, lime and seed.

c. Apply seed uniformly by hand, cyclone seeder, or hydroseeder (slurry including seed and fertilizer). Hydroseedings, which include mulch, may be left on soil surface. Seeding rates must be increased 10% when hydroseeding.

3. Maintenance

Temporary seedings shall be periodically inspected. At a minimum, 95% of the soil surface shall be covered by vegetation. If any evidence of erosion or sedimentation is apparent, repairs shall be made and other temporary measures used in the interim (mulch, filter barriers, check dams, etc.).

E. Permanent Grass Cover

1. Seedbed Preparation

Apply fertilizer at the rate of 300 lb. / acre of 10–10–10. Apply limestone (equivalent to 50% calcium plus magnesium oxide) at a rate of (1) tons/ acre.

2. Seeding

	Lbs./1,000 Sq. Ft.
a. Utilize Creeping Red Fescue (Pennlawn, Wintergreen)	.45
Redtop (Streeker, Common)	.10
Tall Fescue (Kentucky 31 or Smooth Bromegrass (Saratoga, Lincoln)	.45
	1.00

b. Where the soil has been compacted by construction operations, loosen soil to a depth of two (2) inches before applying fertilizer, lime and seed.

c. Apply seed uniformly by hand, cyclone seeder, or hydroseeder (slurry including seed and fertilizer). Hydroseedings, which include mulch, may be left on soil surface. Seeding rates must be increased 10% when hydroseeding.

F. Storm Drain Inlet Protection

1. Straw Bale Inlet Structure

a. Bales shall be either wire bound or string tied with the bindings oriented around the sides rather than over and under the bales.

b. Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together.

c. The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of a bale to a minimum depth of four (4) inches. After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier.

d. Each bale shall be securely anchored and held in place by at least two (2) stakes or rebars driven through the bale.

e. Loose straw shall be wedged between bales to prevent water from entering between bales.

F. Stabilized Construction Entrance

1. Specifications

a. Aggregate Size: Use two (2) inch stone. (Gradation Shall Be D.O.T. No. 3)

b. Aggregate thickness: Not less than six (6) inches.

c. Width: Ten (10) foot minimum, but not less than the full width of points where ingress or egress occurs.

d. Length: As required, but not less than one hundred (50) feet.

e. Geotextile: To be placed over the entire area to be covered with aggregate. Piping of surface water under entrance(s) shall be provided as required.

f. Criteria for Geotextile: The fabrics shall be Trevia Spunbound 1135, Mirafi 6000x, or equal.

2. Maintenance

The entrance(s) shall be maintained in a condition which will prevent tracking of sediment onto the public right–of–way. When washing is required, it shall be completed on an area stabilized with aggregate which drains into an approved sediment trapping device. All sediment shall be prevented from entering storm drains, ditches or waterways.

G. Temporary Sediment Traps, Swales, and Permanent Stormwater Basins

1. Install per the details contained in this plan set.

2. Maintenance:

a. Temporary sediment traps, swales and permanent stormwater basins shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

b. They shall be repaired if there are any signs of erosion.

c. They shall be periodically cleaned of any accumulated sediment once it has reached one half of the minimum required volume of wet storage.

d. Dewater as needed for any repairs.

Timing of Controls/ Measures

As indicated in the sequence of Major Activities the hay bales and silt fences shall be installed prior to commencing any clearing, demolition or grading of the site. Structural controls shall be installed concurrently with the applicable activity, Area(s) where construction activity temporarily ceases for more than twenty one (21) days will be stabilized with a temporary seed and mulch within fourteen (14) days of the last disturbance. Once construction activity ceases permanently in an area, silt fences and hay bale barriers will be removed once permanent measures are established.

Waste Disposal

A. Waste Materials

All waste materials will be collected and stored in securely lidded receptacles. All trash and construction debris from the site will be deposited into a dumpster. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedure for waste disposal by the superintendent.

B. Hazardous Waste

All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in the practices by the superintendent.

C. Sanitary Waste

All sanitary waste will be collected from the portable units a minimum of once per week by a licensed sanitary waste management contractor.

Spill Prevention

A. Material Management Practices

The following are the materials management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances during construction to storm water runoff:

Good Housekeeping:

The following good housekeeping practices will be followed on site during the construction project:

–An effort will be made to store only sufficient amounts of products to do the job.

–All materials stored on site will be stored in a neat, orderly manner in their proper (original if possible) containers and, if possible, under a roof or other enclosure.

–Manufacturer's recommendations for proper use and disposal will be followed.

–The site superintendent will inspect daily to ensure proper use and disposal of materials.

–Substances will not be mixed with one another unless recommended by the manufacturer.

–When ever possible all of a product will be used up before disposing of the container.

Hazardous Products:

The following practices will be used to reduce the risks associated with hazardous products:

–Products will be kept in their original containers unless they are not re–sealable

–Original labels and product safety data will be retained for important product information.

–Surplus product that must be disposed of will be discarded according to the manufacturer's recommended methods of disposal.

B. Product Specific Practices

The following product specific practices will be followed on site:

Petroleum Products:

All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt based substances used on site will be applied according to the manufacturer's recommendations.

Fertilizers:

Fertilizers used will be applied only in the minimum amounts directed by the specifications. Once applied, fertilizer will be worked into the soil to limit exposure to storm water Storage will be in a covered shed or enclosed trailers. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be disposed of properly according to manufacturer's instructions or state and local regulations.

Concrete Trucks:

Concrete trucks will discharge and wash out surplus concrete or drum wash water in a contained area on site..

C. Spill Control Practices

In addition to good housekeeping and material management practices discussed in the previous section the following practices will be followed for spill prevention and cleanup:

–Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

–Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include but not limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic or metal trash containers specifically for this purpose.

–All spills will be cleaned up immediately after discovery.

–The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

–Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size.

–The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to cleanup the spill if it recurs. A description of the spill, its cause, and the cleanup measures will be included.

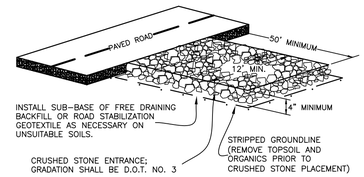
–The site superintendent responsible for day to day operations will be the spill prevention and cleanup coordinator.

Burlington Solar One, LLC/R.R. Hiltbrand Construction, LLC

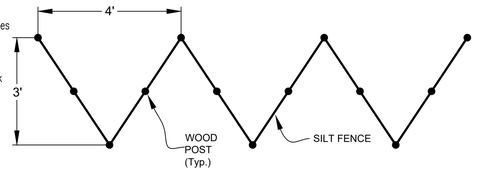
are assigned the responsibility for implementing this erosion and sediment control plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, notifying the Planning and Zoning office of any transfer of this responsibility, and for conveying a copy of the Sediment & Erosion Control Plan if the title to the land is transferred.

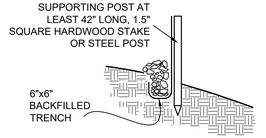
Contingency Erosion Plan

Should unforeseen erosion or sedimentation problems arise, the design engineer of record. (R.R. Hiltbrand Engineers & Surveyors) and the local enforcement agent shall be notified immediately. An inspection of the affected area(s) shall be promptly performed. A remedial action plan shall be formulated with the local enforcement agent's approval. The site contractor shall then implement the recommended course of action which has been determined by both the engineer and local enforcement agent.



CONSTRUCTION ENTRANCE n.t.s.



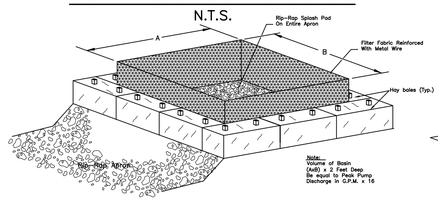


INSTALL SILTFENCE BEYOND 10' RIP-RAP BERM IN SAWTOOTH CONFIGURATION AND BACKFILL FENCE WITH CRUSHED STONE

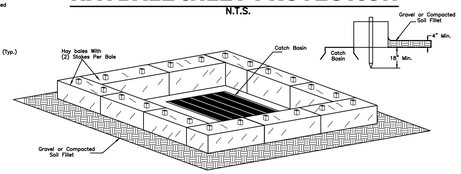
SAWTOOTH SILT FENCE DETAIL

n.t.s.

TEMPORARY SEDIMENT BASIN FOR DEWATERING DISCHARGE



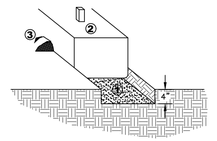
HAYBALE INLET PROTECTION

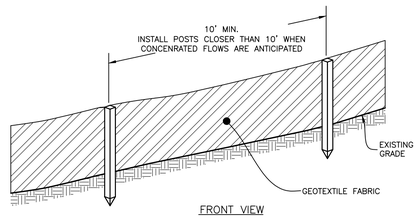


PLACEMENTand CONSTRUCTION OF HAY BALE BARRIER

N.T.S.

1. EXCAVATE TRENCH 4" AND PLACE FILL UP–SLOPE OF TRENCH. PLACE HAYBALE & STAKE FIRST STAKE AT ANGLE TOWARDS
2. FIRST HAYBALE. STAKES ARE 18" MIN. INTO GROUND.
3. BACKFILL & COMPACT EXCAVATED FILL ALONG HAY BALE.
4. WEDGE LOOSE HAY BETWEEN BALES.





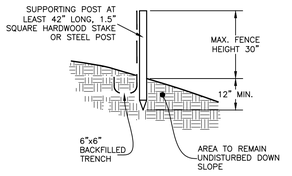
FRONT VIEW

DETAIL FOR FENCE JOINT

* POSITION POSTS TO OVERLAP AS SHOWN ABOVE, MAKING CERTAIN THAT THE FABRIC FOLDS AROUND EACH POST ONE FULL TURN
* DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW–THROUGH OF BUILT–UP SEDIMENT AT JOINT.

SILT FENCE

N.T.S.



SIDE VIEW

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES, OF THE '2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL'.
2. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 30 INCHES ABOVE GRADE.
3. POSTS SHALL BE SPACED A MAXIMUM OF (10) FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MIN. 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS THE MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROX.. (6) INCHES WIDE BY (6) INCHES DEEP ALONG THE LINE OF THE POSTS AND UPSLOPE FROM THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS.
5. THE FABRIC SHALL NOT EXTEND MORE THAN (30) INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF (8) INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
7. FILTER BARRIERS SHALL BE REMOVED WHEN THE HAVE SERVED THEIR USEFUL PURPOSE. BUT NOT BEFORE THE UPHILL SURFACE HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE–HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

REVISED 09/23/21: AS PER CSC REVIEW
REVISED 06/29/21 - REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

SEDIMENT & EROSION CONTROL DETAILS SHEET

Lot 33
Prospect Street
Burlington, Connecticut
September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

TIME OF CONCENTRATION
Tc = 105 MINUTES

DRAINAGE AREA
DA-1
31.77 ACRES

POINT OF ANALYSIS

BENCHMARK
NAIL IN SNET #1620
ELEV = 367.00

BENCHMARK
SURVEYOR'S CONTROL POINT
ELEV. 431.76

SOUTH MAIN STREET

PROSPECT STREET

WILDCAT BROOK

N/F RAYMOND & SHEILA PAVLIK #51 SOUTH MAIN STREET ZONE R-44

N/F RICHARD M. CORLISS #18 MAIN STREET ZONE R-44

N/F JOSEPH & DEVONA TAMMY CARON #24 MAIN STREET ZONE R-44

N/F JOHN HEBERT #30 MAIN STREET ZONE R-44

N/F JOHN HEBERT #34 MAIN STREET ZONE R-44

N/F ROLAND & ROSE MARIE PAVLIK #44 MAIN STREET ZONE R-44

N/F MARK A. & PATRICIA B. SMALDONE #48 MAIN STREET ZONE R-44

N/F KAREN HEBERT STONE ROAD ZONE R-44

N/F EWELINA & RICHARD CZERCZAK #56 STONE ROAD ZONE R-44

N/F DONNA C. GASKI #62 STONE ROAD ZONE R-44

N/F OLIVER B. & LINDA R. DIAZ #72 STONE ROAD ZONE R-44

N/F LARRY A. & CYNTHIA P. RUEL #76 STONE ROAD ZONE R-44

N/F CRAIG C. & MEGHAN K. CARDER #29 WILDCAT ROAD ZONE R-44

N/F WHITE BARN FARM, LLC #303 JEROME AVENUE ZONE R-44

N/F NORMAN H. & NOREEN L. KIRSCHNER #63 PROSPECT STREET ZONE R-15

N/F JUSTIN W. KIRSCHNER & ALYSSA RUTH DESJARDINS #66 PROSPECT STREET ZONE I-2

N/F CYNTHIA M. KASEY #22 PROSPECT STREET ZONE R-15

N/F RUSSELL J. & DOROTHY K. WOLLMAN #365 JEROME AVENUE ZONE R-44

N/F STEVEN PETERSON #359 JEROME AVENUE ZONE R-15

TIE-LINE ONLY
PROPERTY LINE IS CENTERLINE BROOK

CENTERLINE BROOK (PROPERTY LINE)

LIMIT OF 100-YEAR FLOOD ZONE (NO ELEVATION)

LIMIT OF STATEWIDE IMPORTANT FARMLAND SOILS AS PER OVERLAY OF DEEP WILDLIFE DIVISION MAPPING

LIMIT OF PRIME FARMLAND SOILS AS PER OVERLAY OF DEEP WILDLIFE DIVISION MAPPING

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

WETLANDS AREA
190,131 S.F.
4.36 ACRES

FLAGGED INLAND WETLANDS

100' UPLAND REVIEW AREA

"RESTORED FIELD"

EXISTING TOPSOIL STOCKPILE

EXISTING ROUND STONE STOCKPILES

EXISTING SEPTIC SAND STOCKPILE

EXISTING SCREENED SAND STOCKPILE

EXISTING FILL STOCKPILE

EXISTING EDGE OF CLEARING

PROCESSED GRAVEL STOCKPILE

EXISTING/HISTORICAL ENTRANCE

EXISTING GATED ENTRANCE

BITUMINOUS MILLINGS ACCESS

EXISTING STONE WALL

TRAIL (TYPICAL)

APPARENT LEDGE OUTCROPS

BOULDER

COOL BOULDER

BOULDER SPLIT BY TREE

EXISTING 1" PIPE

EXISTING 1/2"PIPE

N08° 49' 16"W 255.10'

N08° 03' 16"W 226.34'

111.12'

80.34'

34.88'

N46° 32' 38"W 180.96'

242.45'

S46° 32' 38"E

S53° 31' 44"W 201.60'

N66° 17' 03"W 66.89'

N40° 48' 06"W 78.71'

70.04'

S40° 48' 06"E

S66° 17' 03"E 76.02'

S41° 30' 54"W

S52° 38' 54"W 108.00'

S71° 50' 54"W 118.00'

S81° 41' 06"W 215.97'

N07° 36' 36"W 137.17'

N08° 13' 46"W 159.21'

N08° 14' 06"W 467.86'

N10° 05' 36"W 244.97'

N08° 10' 16"W 334.39'

N08° 40' 16"W 325.53'

N12° 22' 26"W 125.03'

N03° 34' 16"W 84.57'

N63° 00' 15"E 16.80'

N07° 13' 38"W 52.34'

S80° 29' 21"E 234.24'

S83° 28' 41"E 188.05'

N82° 24' 21"E 134.37'

N61° 41' 17"E 177.43'

N40° 06' 21"E 121.90'

N26° 12' 51"E 77.30'

N41° 30' 21"E 136.06'

N15° 55' 51"E 82.65'

N02° 03' 11"E 244.15'

S64° 51' 54"E 167.15'

S64° 53' 38"E 123.89'

S56° 42' 18"E 146.72'

531.93'
S01° 03' 41"E

S86° 44' 49"W 115.85'

S86° 28' 19"W 286.26'

S02° 52' 54"E 2010.90'

GRAPHIC SCALE

100 50 0 100 200

1 Inch = 100 Feet

REVISED 06/29/21 - REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT

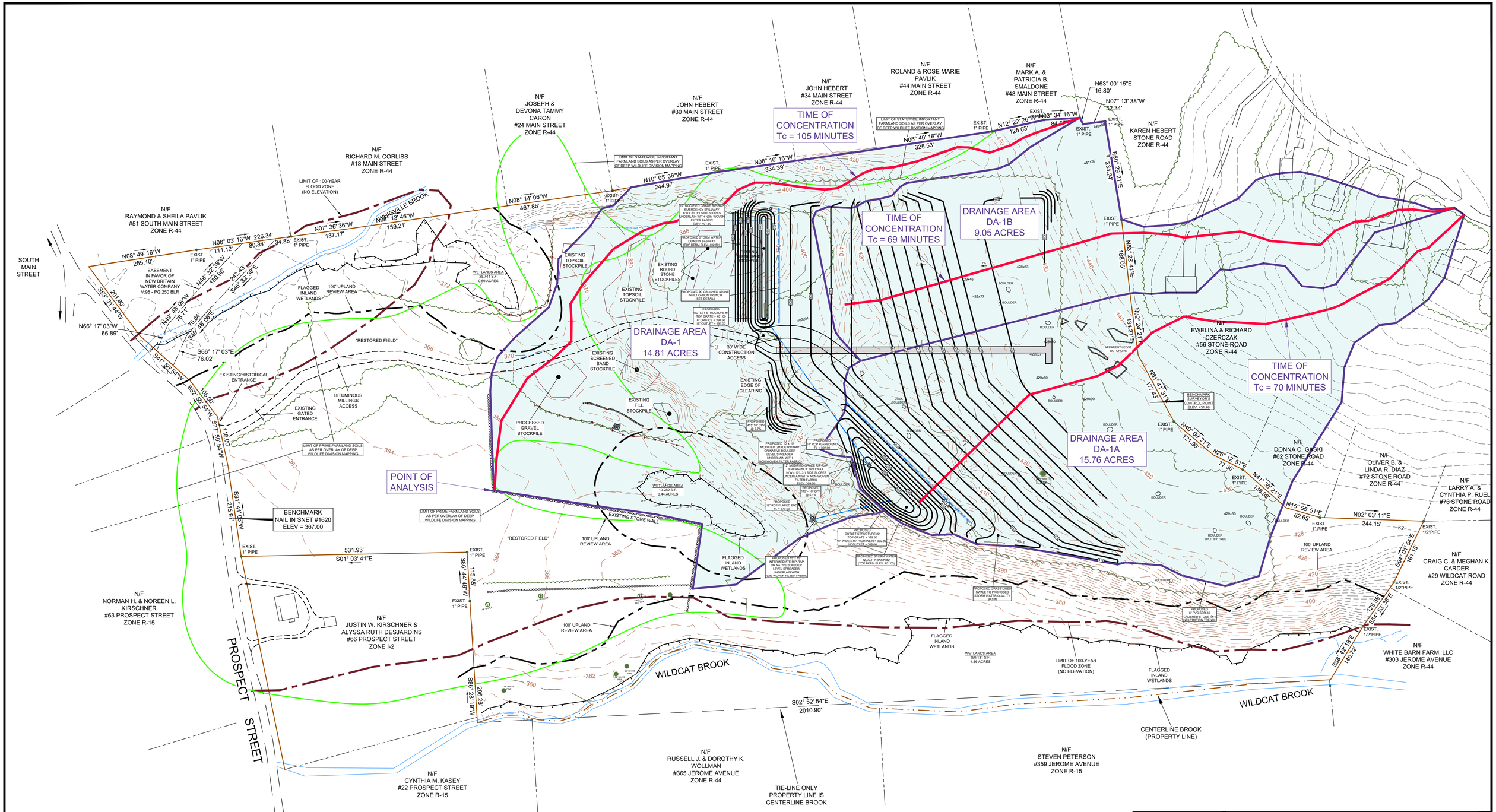
PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

PRE-DEVELOPED DRAINAGE MAP
Lot 33
Prospect Street
Burlington, Connecticut

September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548



PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND Engineers and Surveyors

DEVELOPED DRAINAGE MAP
Lot 33
Prospect Street
Burlington, Connecticut

September 1, 2020

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548

REVISED 06/29/21 - REVISED PANEL LAYOUT AND DEEP COMMENTS
REVISED 02/10/21 - FIRST DESIGN SUBMITTAL
REVISED 10/30/20 - REVISED PANEL LAYOUT

N/F
JOSEPH &
DEVONA TAMMY
CARON
#24 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#30 MAIN STREET
ZONE R-44

N/F
JOHN HEBERT
#34 MAIN STREET
ZONE R-44

ROLAND & ROSE MARIE
PAVLIK
#44 MAIN STREET
ZONE R-44

MARK A. &
PATRICIA B.
SMALDONE
#48 MAIN STREET
ZONE R-44

N/F
KAREN HEBERT
STONE ROAD
ZONE R-44

N/F
EWELINA & RICHARD
CZERCZAK
#56 STONE ROAD
ZONE R-44

N/F
DONNA C. GA
#62 STONE R
ZONE R-44

North

N08° 14' 06"W
467.86'

N10° 05' 36"W
244.97'

N08° 10' 16"W
334.39'

N08° 40' 16"W
325.53'

N12° 22' 26"W
125.03'

N03° 34' 16"W
84.57'

N63° 00' 15"E
16.80'

N07° 13' 38"W
52.34'

N80° 28' 21"E
234.24'

N83° 28' 41"E
188.05'

N82° 24' 21"E
134.37'

N61° 41' 31"E
177.43'

N40° 08' 21"E
127.90'

N26° 12' 51"E
77.30'

N41° 30' 24"E
136.08'

N15° 55' 51"
82.65'

EXIST.
1" PIPE

EXIST.
6" PVC OUTLET
FL = 365.52

EXISTING
TOPSOIL
STOCKPILE

EXISTING
TOPSOIL
STOCKPILE

EXISTING
ROUND
STONE
STOCKPILES

EXISTING
SEPTIC SAND
STOCKPILE

EXISTING
SCREENED
SAND
STOCKPILE

EXISTING
FILL
STOCKPILE

PROCESSED
GRAVEL
STOCKPILE

EXISTING
STONE
STOCKPILE

EXISTING
GRAVEL
DRIVE

EXISTING
SILT FENCE

EXISTING
TREELINE
(TYPICAL)

EXISTING 3" MINUS NATIVE
ROUND STONE BERM

EXISTING TEMPORARY
SEDIMENT TRAP
336 C.Y. TO ELEV. 367.00
(321.6 C.Y. REQUIRED)
HIGH WATER MARK 364.95

EXISTING CRUSHED STONE
INFILTRATION TRENCH
W/ 6" PVC (PERF.) PIPE

EXISTING SILT FENCE
(RE-ERECT AND STAPLE
SILT FENCE AS REQUIRED)

EXISTING
MODIFIED GRADE
NATIVE ROUND STONE
TOP SPILLWAY
ELEV. 367.36

CRUSHED STONE
INFILTRATION TRENCH
W/ 6" PVC (PERF.) PIPE

6" PVC OUTLET
EL. 375.00

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
6'W x 8'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 401.50

PROPOSED STORM WATER
QUALITY BASIN #1
(TOP BERM ELEV. 402.50)

PROPOSED ¾" CRUSHED STONE
INFILTRATION TRENCH
(SEE DETAIL)

PROPOSED
OUTLET STRUCTURE #1
TOP GRATE = 401.00
6" ORIFICE = 398.50
18" OUTLET = 395.00

30' WIDE
CONSTRUCTION
ACCESS

EXISTING
EDGE OF
CLEARING

PROPOSED
415' 18" CPP
@ 0.7%

PROPOSED
18" RCP FLARED END
FL = 392.00

PROPOSED 10' x 10'
MODIFIED GRADE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

12" MODIFIED GRADE RIP-RAP
EMERGENCY SPILLWAY
10'W x 10'L 3:1 SIDE SLOPES
UNDERLAIN WITH NON-WOVEN
FILTER FABRIC
ELEV. 399.50

PROPOSED
175' - 18" CPP
@ 5.1%

PROPOSED
18" RCP FLARED END
FL = 379.00

PROPOSED
OUTLET STRUCTURE #2
TOP GRATE = 399.50
6" WIDE x 46" HIGH WEIR = 392.80
18" OUTLET = 388.00

PROPOSED STORM WATER
QUALITY BASIN #2
(TOP BERM ELEV. 401.00)

PROPOSED 15' x 15'
INTERMEDIATE RIP-RAP
OR NATIVE BOULDER
LEVEL SPREADER
UNDERLAIN WITH
NON-WOVEN FILTER FABRIC

PROPOSED GRASS-LINED
SWALE TO PROPOSED
STORM WATER QUALITY
BASIN

SWALE

ORIGINAL
LIMIT OF
CLEARING

ORIGINAL
SOLAR PANEL
LOCATION

PROPOSED
NEW LIMIT OF
CLEARING

PROPOSED NEW
SOLAR PANEL
LOCATION
(IN PURPLE)

BENCHMARK
SURVEYOR'S
CONTROL POINT
ELEV. 431.76

WETLANDS AREA
25,741 S.F.
0.59 ACRES

WETLANDS AREA
19,282 S.F.
0.44 ACRES

100' UPLAND
REVIEW AREA

FLAGGED
INLAND
WETLANDS
(TYPICAL)

FLAGGED
INLAND
WETLANDS

229.93' TO
WETLANDS

110.45' TO
WETLANDS

193.34' TO
WETLANDS

171.5' TO
WETLANDS

111.48' TO
WETLANDS

191.72' TO EDGE
OF WILDCAT BROOK

319.63' TO EDGE
OF WILDCAT BROOK

344.45' TO EDGE
OF WILDCAT BROOK

EXISTING STONE WALL

"RESTORED FIELD"

100' UPLAND
REVIEW AREA

APPARENT LEDGE
OUTCROPS

BOULDER

COOL
BOULDER

BOULDER
SPLIT-BY TREE

48" WHITE
PINE

428x67

429x28

428x63

429x46

429x77

428x80

429x67

429x60

429x90

429x30

440x98

441x61

441x39

409.76

387.08

191.48'

185.02'

140.62'

90.89'

109.44'

GRAPHIC SCALE
60 30 0 60 120
1 Inch = 60 Feet

PREPARED FOR:
Burlington Solar One, LLC
Verogy VCP, LLC
150 Trumbull Street
Hartford, CT 06103

R. R. HILTBRAND
Engineers
and
Surveyors

ORIGINAL PLAN VS NEW PLAN
Lot 33
Prospect Street
Burlington, Connecticut

April 7, 2021

R. R. HILTBRAND ENGINEERS and SURVEYORS
575 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 (860) 582 4548