**BELCHERTOWN SOLAR**

HAMPshire county, Ma.

**Solar PV Project - 4.4 MW ac**

Civil Submittal

**PID No.** 226-45.01

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**Setbacks**

- EXISTING FEATURES
  - OHU
  - PROPERTY LINE
  - CENTERLINE OF ROAD
  - EDGE OF ROAD
  - OVERHEAD POWER
  - TREELINE
  - MAJOR CONTOUR
  - MINOR CONTOUR
  - WETLAND
  - NON JURISDICTIONAL WETLAND
  - CATCH BASIN
  - UTILITY POLE
  - X
  - AGGREGATE ROAD
  - TEMPORARY AGGREGATE SURFACE
  - CHAIN LINK FENCE
  - OVERHEAD UTILITY
  - SETBACK LINE
  - CULVERT
  - WETLAND BUFFER
  - LEASE BOUNDARY
  - Silt fence/hay bale combo
  - rock construction entrance
  - Fiber log
  - Stormwater berm

- PROPOSED FEATURES
  - Seeding Features
    - Solar array seeding mix (13.4 ac.)
  - Erosion Control Features
    - Conservation Seeding (2.3 ac.)

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**Survey Coordinate Notes**

Design is based on wetland data from "52251 Belchertown Delineation.pdf" provided by Clean Focus Resources downloaded on 10/30/2018 and "PeerReviewWetland.shp" provided by Clean Focus Resources uploaded on 02/15/2019.

Design is based on wetland data from "52251 Belchertown Delineation.pdf" provided by Clean Focus Resources downloaded on 10/30/2018.

Design is based on existing data from "18-259 101018.dwg" survey provided by Clean Focus Resources downloaded on 10/30/2018.

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**Wetland Notes**

Design is based on wetland data from "52251 Belchertown Delineation.pdf" provided by Clean Focus Resources downloaded on 10/30/2018.

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Massachusetts state wetlands regulations and the Town of Belchertown wetland bylaw require a wetland buffer of 100' for wetlands greater than 5,000 sf.
NOTES:
1. Construction ditch as shown above only where indicated by contours on the grading plan.
2. In the absence of a roadside ditch, slope from edge of gravel to existing ground @ 3:1.
3. 2% cross slope is typical, but can be adjusted down to match existing ground slope in order to promote continued sheet drainage across road. Cross slope shall not be less than 1%.
4. Road grades are typically intended to match adjacent grade allowing drainage to sheet on and off of roads evenly. Care should be taken to field adjust road grades or ditch locations as necessary to prevent runoff from concentrating along road edges causing erosion.
5. Aggregate section shown represents a typical road section for this type of project. Actual section will be based on geotechnical report recommendations.

CONTRACTOR SHALL REFER TO THE STRUCTURAL PLANS FOR THE PCS SUBGRADE PREPARATION.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF Massachusetts.

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Noah Waterhouse, PE
11/14/2018
Registration Number 54477

PROFESSIONAL CERTIFICATION
FENCE FABRIC SHALL BE 6" ABOVE FINISHED GRADE TO ALLOW FOR WILDLIFE TO PASS THROUGH.

FABRIC - 9 GAUGE, 2" MESH; GALVANIZED ASTM A392, CLASS 1; TWISTED SELVAGE ON BOTTOM, KNUCKLED SELVAGE ON TOP.

POSTS - STEEL PIPE, ASTM F1083 STANDARD WEIGHT (SCHEDULE 40).

LINE POSTS SHALL BE 2 3/8" O.D. PIPE, 3.65 # PER FT.

TERMINAL POSTS SHALL BE 2 7/8" O.D. PIPE, 5.79 # PER FT.

ALL RAIL, WIRE AND GATES SHALL BE GALVANIZED.

BRACE PANEL MINIMUM SPACING AND LOCATION SHALL BE PER FENCE MANUFACTURER SPECIFICATIONS.

EVS, INC.
10025 Valley View Road, Suite 140
Eden Prairie, Minnesota 55344
Phone: 952-646-0236
Fax: 952-646-0290
www.evs-eng.com
1. SEE GRADING PLAN FOR BERM LOCATIONS.
2. BERM ARE TO BE CONSTRUCTED PERPENDICULAR TO FINISHED GROUND SLOPE.
3. TERMINATE ENDS BY ROUTING BERM 90 DEGREES UP SLOPE AND USE 10’ TAPER.
4. COMPACT BERM WITH PLATE TAMPER OR APPROVED EQUIVALENT. DO NOT COMPACT ADJACENT FINISHED GRADE.
5. COMPACT BERM WITH PLATE TAMPER OR APPROVED EQUIVALENT. DO NOT COMPACT ADJACENT FINISHED GRADE.
6. BERM ARE TO PERIODICALLY MAINTAINED TO DESIGNED DIMENSIONS AS THEY ARE DISTURBED BY CONSTRUCTION ACTIVITY.
7. UPON COMPLETION OF BERM CONSTRUCTION, STABILIZE WITH PERMANENT VEGETATION ACCORDING TO SEED SPECIFICATION ON SHEET L101.
8. BERM ARE TO REMAIN AS A PERMANENT STORMWATER FEATURE.

NOT TO SCALE

STORMWATER BERM

2:1 MAX SLOPE

BERM SPACING PER PLAN

4’

16” MIN

WOOD STAKE TO ONLY PENETRATE NETTING

WOOD STAKE DETAIL

PROFESSIONAL CERTIFICATION

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Noah Waterhouse, PE

11/14/2018

54477
PLANNING BOARD CHAIRMAN DATE

CERTIFICATION OF APPROVAL

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CERTIFICATION OF APPROVAL

PLANNING BOARD CHAIRMAN DATE

CERTIFICATION OF APPROVAL

NOT FOR CONSTRUCTION