Exhibit I

Soil Conditions

Sunstone Solar Project
June 2023

Prepared for

Sunstone Solar, LLC

Prepared by

Tetra Tech, Inc.

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Acronyms and Abbreviations

Applicant	Sunstone Solar, LLC, a subsidiary of Pine Gate Renewables, LLC
BMP	best management practice
ESCP	Erosion and Sediment Control Plan
Facility	Sunstone Solar Project
K factor	erosion factor that indicates the susceptibility of a soil to sheet and rill erosion by water
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
OAR	Oregon Administrative Rule
ODEQ	Oregon Department of Environmental Quality
SPCC Plan	Spill Prevention, Control, and Countermeasure Plan

1.0 Introduction

Sunstone Solar, LLC, a subsidiary of Pine Gate Renewables, LLC (Applicant), proposes to construct and operate the Sunstone Solar Project (Facility), a photovoltaic solar energy generation facility and related or supporting facilities in Morrow County, Oregon. This Exhibit I was prepared to meet the submittal requirements in Oregon Administrative Rule (OAR) 345-021-0010(1)(i).

2.0 Analysis Area

The analysis area for soil resources is defined in the Project Order as "the area within the site boundary" (ODOE 2022). The site boundary is defined in Exhibits B and C and is shown on Figure I-1.

3.0 Identification and Description of Soil Types

OAR 345-021-0010(1)(i) Information from reasonably available sources regarding soil conditions and uses in the analysis area, providing evidence to support findings by the Council as required by OAR 345-022-0022, including:

(A) Identification and description of the major soil types in the analysis area;

The Natural Resources Conservation Service (NRCS) Web Soil Survey describes the 13 major soil types found within the analysis area (NRCS 2023). Table I-1 below summarizes the details relevant to the construction of the Facility.

Table I-1. General Description of Mapped Soil Units in the Analysis Area

Map Unit Symbol	Soil Unit	Approximate Thickness	Formation Setting	Permeability	Runoff	Hazard for Erosion	Acres	Wind Erosion Rating	K factor
13D	Gravden very gravelly loam, 5 to 20 percent slopes	5 feet	Gravelly alluvium and colluvium	Very High	Low	Slight	103.98	3	0.15
13E	Gravden very gravelly loam, 20 to 40 percent slopes	5 feet	Eolian sands and alluvium	Very High	Low	Slight	221.01	3	0.15
28E	Lickskillet very stony loam, 7 to 40 percent slopes	>7 feet	Gravelly alluvium and colluvium	Low	High	Moderate	0.32	7	0.20
45A	Ritzville silt loam, 0 to 2 percent slopes	>7 feet	Gravelly alluvium and colluvium	Low	High	Severe	117.08	7	0.49
45B	Ritzville silt loam, 2 to 7 percent slopes	43	Loess mixed with colluvium from basalt	Low	High	Moderate	87.96	7	0.49
70B	Warden very fine sandy loam, 2 to 5 percent slopes	0	Loess mixed with colluvium from basalt	Low	High	Severe	0.31	No Data	0.55
71A	Warden silt loam, 0 to 2 percent slopes	>7 feet	Loess mixed with small amounts of volcanic ash	High	Moderately Low	Moderate	3138.09	5	0.55
71B	Warden silt loam, 2 to 5 percent slopes	>7 feet	Loess mixed with small amounts of volcanic ash	High	Moderately Low	Severe	195.57	5	0.55
71C	Warden silt loam, 5 to 12 percent slopes	>7 feet	Loess mixed with small amounts of volcanic ash	High	Moderately Low	Severe	35.52	5	0.55

Map Unit Symbol	Soil Unit	Approximate Thickness	Formation Setting	Permeability	Runoff	Hazard for Erosion	Acres	Wind Erosion Rating	K factor
71E	Warden silt loam, 20 to 40 percent slopes	>7 feet	Loess over calcareous lacustrine deposits	High	Moderately Low	Moderate	90.44	3	0.55
75B	Willis silt loam, 2 to 5 percent slopes	>7 feet	Loess over calcareous lacustrine deposits	High	Moderately Low	Slight	516.12	3	0.55
75C	Willis silt loam, 5 to 12 percent slopes	>7 feet	Loess over calcareous lacustrine deposits	High	Moderately Low	Moderate	998.32	3	0.55
78	Xeric Torriorthents, nearly level	>7 feet	Loess over calcareous lacustrine deposits	High	Moderately Low	Severe	23.89	3	0.24

4.0 Current Land Use within the Analysis Area

OAR 345-021-0010(1)(i)(B) Identification and description of current land uses in the analysis area, such as growing crops, that require or depend on productive soils;

The land uses within the analysis area consist of private agricultural land used for a dryland winter wheat/chemical fallow agricultural rotation with a vegetated (uncultivated) dry wash that runs through the middle of the analysis area. Additional discussion of soil class and farmland designations are provided in Exhibit K.

5.0 Facility Soil Impacts

OAR 345-021-0010(1)(i)(C) Identification and assessment of significant potential adverse impact to soils from construction, operation and retirement of the facility, including, but not limited to, erosion and chemical factors such as salt deposition from cooling towers, land application of liquid effluent, and chemical spills;

5.1 Construction

Construction of the solar arrays will require a variety of activities that have the potential for adversely impacting soils. Activities that may result in potential adverse soil impacts include the following:

- Clearing and grubbing of vegetation in temporary construction areas, solar array, and new access roads;
- Grading and excavation activities;
- Constructing new access roads;
- Hauling heavy equipment and other truck traffic for the delivery of aggregates, concrete, water, solar components, and construction supplies; and
- Fueling or maintaining construction equipment or vehicles.

The portions of the analysis area that will be graded are expected to result in a balanced cut-and-fill quantity of earthwork to maintain the existing conditions to the extent practicable for the protection of the equipment and facilities.

Acres of temporary and permanent disturbance by disturbance type are identified in Exhibit C. Impacts to soil, such as erosion, resulting from construction activities would be limited through the following:

- Avoiding sensitive soil areas to the extent practicable;
- Maintaining a Spill Prevention, Control, and Countermeasure Plan (SPCC Plan);
- Implementing a Fugitive Dust Control Plan prior to construction;

- Segregating, protecting, and replacing topsoil disturbed by grading and excavation activities;
- Implementing the erosion and sediment control best management practices (BMPs) included in the final Erosion and Sediment Control Plan (ESCP), as required by the Oregon Department of Environmental Quality (ODEQ) National Pollutant Discharge Elimination System (NPDES) 1200-C Construction Stormwater Discharge General permit (see draft application in Attachment I-1); and
- Implementing appropriate site restoration practices following construction, including decompaction, as described in the ESCP (Attachment I-1) and the Draft Revegetation Plan (see Exhibit P, Attachment P-4).

5.2 Operation

Operational activities will not result in impacts to soils as activities will be restricted to access roads and no ground disturbance will occur. Construction and post-construction revegetation efforts identified in the Draft Revegetation Plan (see Exhibit P, Attachment P-4) will provide for long-term soil stability and restoration during operation in areas that were temporarily disturbed.

The inverters, transformers, and the battery storage system will be stored in completely contained, leak-proof modules on concrete pads to capture any leaks that may occur (see Exhibit B). Operation and maintenance staff will conduct inspections of the inverters, transformers, and battery system according to the manufacturer's recommendations, which are assumed to be monthly inspections. In addition, an SPCC Plan will be developed to manage, prevent, contain, and control potential releases, and provide provisions for quick and safe cleanup of hazardous materials (see Exhibit G). The potential for soil contamination will be limited by not maintaining substantial supplies of hazardous materials on site, and by observing appropriate safety measures during maintenance procedures.

5.3 Decommissioning

In the event of decommissioning, potential erosion and soil impact hazards will be similar to those occurring during construction. Measures similar to those employed during construction and operation will be used during decommissioning to prevent and control erosion, minimize soil compaction, prevent spills, and revegetate disturbed areas.

6.0 Mitigation Measures

OAR 345-021-0010(1)(i)(D) A description of any measures the applicant proposes to avoid or mitigate adverse impact to soils; and

The Applicant will rely on the following measures to avoid or minimize adverse impacts on soils.

- **Existing Vegetation Preservation Measures** – To the extent practicable, existing vegetation will be preserved. Where vegetation clearing is necessary, root systems would be conserved if possible.
- **Soil Health Measures** – Soil health will be protected by implementing measures to minimize impacts to soil compaction (e.g., maintaining traffic and hauling on established access routes and avoiding excavation activities in saturated conditions) and to soil health (e.g., segregating, protecting, and replacing topsoil).
- **Erosion Control Measures** – During construction, the Applicant will implement BMPs for erosion, including perimeter controls (e.g., silt fence), soil stabilization (e.g., mulching or tackifiers), and dust control as outlined in the Facility-specific ESCP and the 1200-C Construction Stormwater Discharge General Permit (see draft application in Attachment I-1).
- **Reclamation and Revegetation Measures** – The Applicant will provide long-term soil stability by reseeding disturbed areas to reestablish vegetation. Temporarily impacted areas that are reseeded will be monitored for restoration success according to the Applicant's Draft Revegetation Plan (see Exhibit P, Attachment P-4).
- **Pollutant Management Measures** – During construction, source control measures will be implemented to reduce the potential of chemical pollution to surface water or groundwater during construction. SPCC plans for construction and operation will be prepared for each phase of the Facility that outline the site-specific handling and reporting measures (see Exhibit G).

7.0 Monitoring Program

OAR 345-021-0010(1)(i)(E) The applicant's proposed monitoring program, if any, for adverse impact to soils during construction and operation.

Erosion and sediment control measures will be inspected and maintained regularly during construction as required by the ODEQ NPDES 1200-C Construction Stormwater Discharge General Permit. The Applicant will monitor the restoration success of temporarily disturbed areas according to the Draft Revegetation Plan (see Exhibit P, Attachment P-4) and criteria in the ESCP. As described in the Draft Revegetation Plan, a long-term monitoring plan will be developed in coordination with Oregon Department of Energy and Oregon Department of Fish and Wildlife based on the initial 5 years of annual monitoring.

8.0 Conclusions

The evidence provided in this exhibit demonstrates that the requirements specified in OAR 345-022-0022 have been met because the Facility is not likely to result in significant adverse impacts to soils. The potential impacts from erosion during construction are anticipated to be minimal and are

addressed through erosion-control measures as described above and in the ESCP as required by the NPDES 1200-C Construction Stormwater Discharge General Permit. Subsequent revegetation efforts identified in the Draft Revegetation Plan (see Exhibit P, Attachment P-4) will provide for long-term soil stability during operation. Taking this into account, the Oregon Energy Facility Siting Council may conclude that the design, construction, and operation of the Facility, as proposed, is not likely to result in a significant adverse impact to soils.

9.0 Submittal Requirements and Approval Standards

9.1 Submittal Requirements

Table I-2. Submittal Requirements Matrix

Requirement	Location
OAR 345-021-0010(1)(i) Information from reasonably available sources regarding soil conditions and uses in the analysis area, providing evidence to support findings by the Council as required by OAR 345-022-0022, including:	–
(A) Identification and description of the major soil types in the analysis area;	Section 3.0
(B) Identification and description of current land uses in the analysis area, such as growing crops, that require or depend on productive soils;	Section 4.0
(C) Identification and assessment of significant potential adverse impact to soils from construction, operation and retirement of the facility, including, but not limited to, erosion and chemical factors such as salt deposition from cooling towers, land application of liquid effluent, and chemical spills;	Section 5.0
(D) A description of any measures the applicant proposes to avoid or mitigate adverse impact to soils; and	Section 6.0
(E) The applicant's proposed monitoring program, if any, for adverse impact to soils during construction and operation.	Section 7.0

9.2 Approval Standards

Table I-3. Approval Standard

Requirement	Location
OAR 345-022-0022 Soil Protection	
To issue a site certificate, the Council must find that the design, construction and operation of the facility, taking into account mitigation, are not likely to result in a significant adverse impact to soils including, but not limited to, erosion and chemical factors such as salt deposition from cooling towers, land application of liquid effluent, and chemical spills.	Sections 5.0, 6.0, 7.0, and 8.0

10.0 References

NRCS (Natural Resource Conservation Service). 2023. Web Soil Survey. Available online at: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx. Accessed February 2023.

ODOE (Oregon Department of Energy). 2022. Project Order. In the Matter of the Application for Site Certificate for the Echo Solar Project. Issued by Oregon Department of Energy. September 26, 2022.

Figures

Sunstone Solar Project

Figure I-1
NRCS Soil Map Index Map

MORROW COUNTY, OR

Figure I-1.1

Figure I-1.2

Figure I-1.3

Bombing Range Road

Alpine Lane

Morrow County

Umatilla County

Doherty Road

Grieb Lane

Sand Hollow Road

Lower Sand Hollow Road

Melville Road

207

578

- Site Boundary
- Map Grid
- County Boundary
- State Highway
- County Highway
- Local Roads
- Existing UEC Transmission Line

TETRA TECH

PINEGATE RENEWABLES

Reference Map

1:50,000

WGS 1984 UTM Zone 11N

0 0.5 1 2 3 4 Miles

NOT FOR CONSTRUCTION

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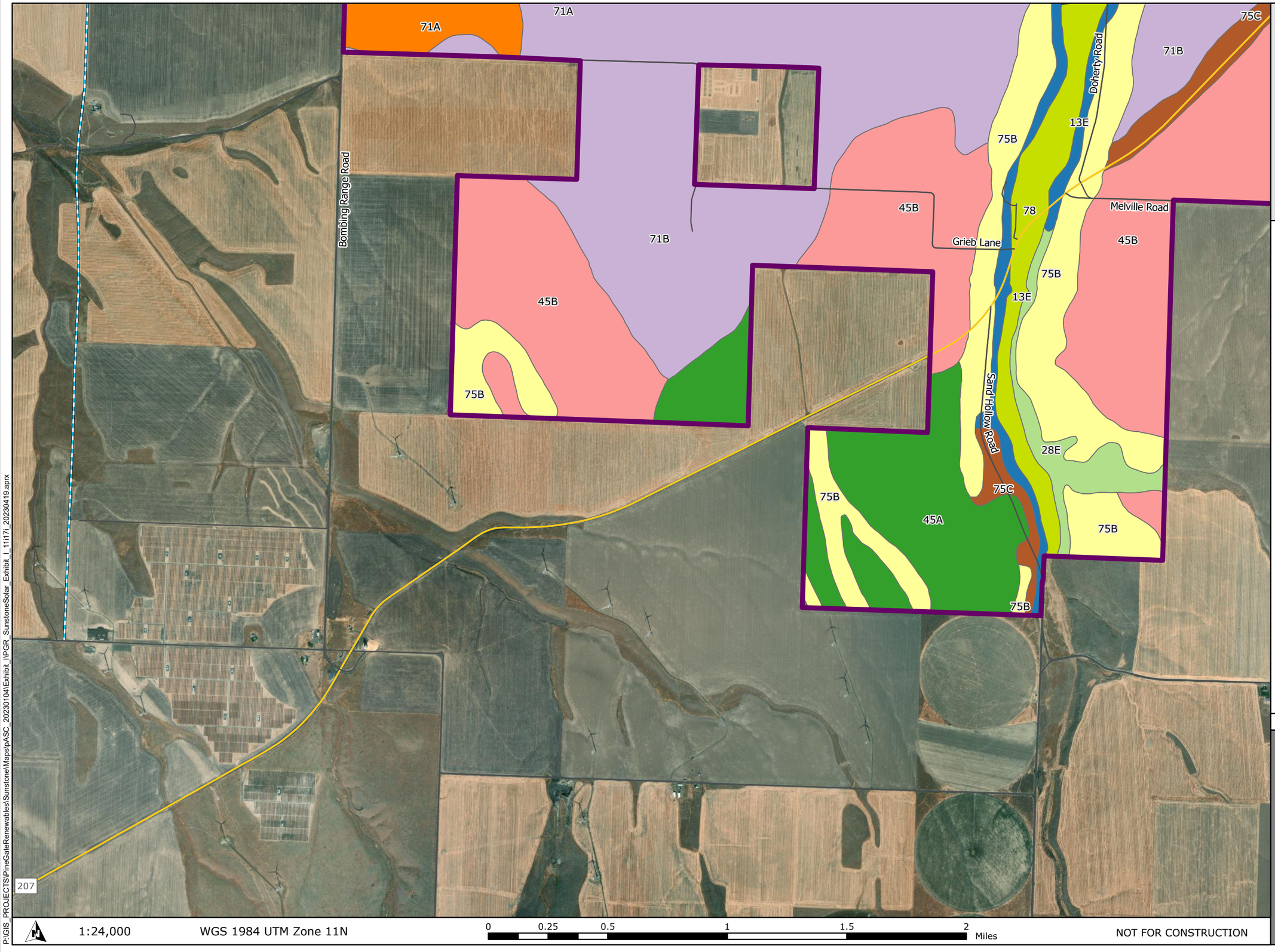
Sunstone Solar Project
Figure I-1.1
NRCS Soil Map
MORROW COUNTY, OR
Site Boundary
Local Roads
Existing UEC Transmission Line
TETRA TECH
PINEGATE RENEWABLES
Reference Map
Figure I-1.1
Figure I-1.2
Figure I-1.3
Bombing Range Road
Alpine Lane
Doherty Road
70C
13D
71B
71C
71A
75C
70B
75B
13E
78
71B
75C
1:24,000
WGS 1984 UTM Zone 11N
0
0.25
0.5
1
1.5
2
Miles
NOT FOR CONSTRUCTION

Sunstone Solar Project

Figure I-1.2
NRCS Soil Map

MORROW COUNTY, OR

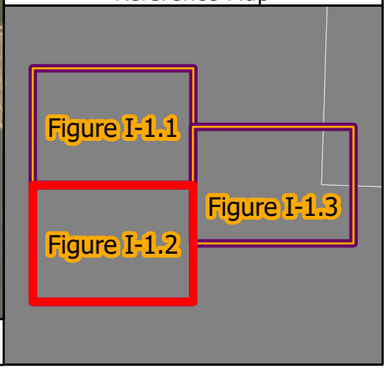


- Site Boundary
- State Highway
- Local Roads
- Existing UEC Transmission Line

TETRA TECH

PINEGATE RENEWABLES

Reference Map



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0 0.25 0.5 1 1.5 2 Miles

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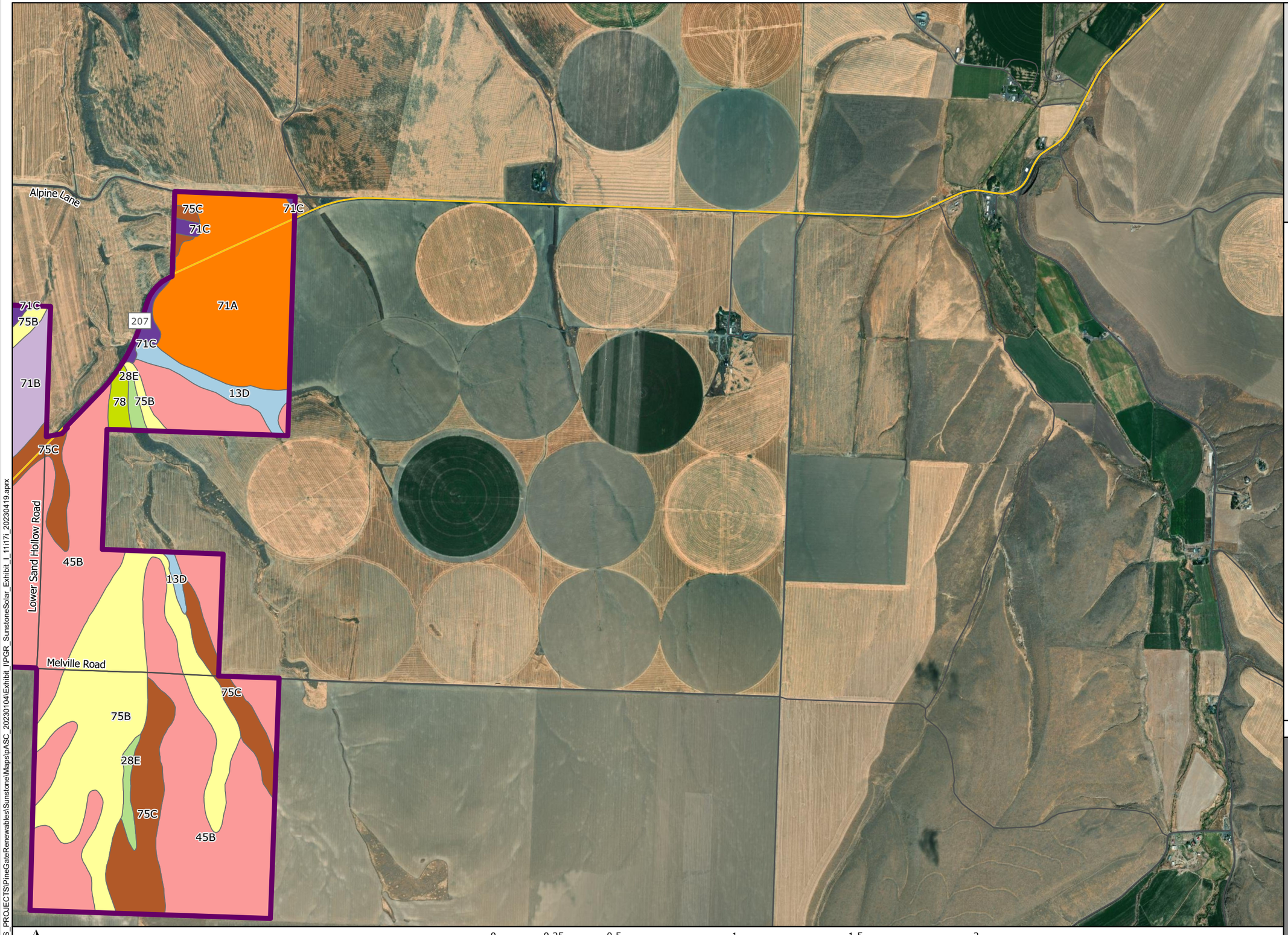
Sunstone Solar Project

Figure I-1.3
NRCS Soil Map

MORROW COUNTY, OR

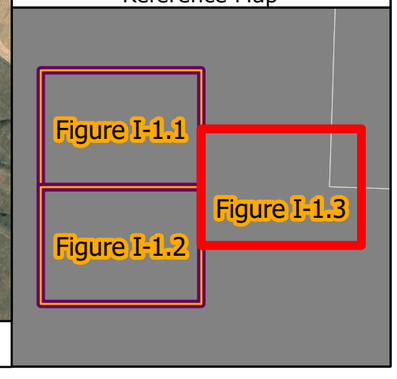


- Site Boundary
- State Highway
- Local Roads

TETRA TECH

PINEGATE RENEWABLES

Reference Map



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WGS 1984 UTM Zone 11N

0 0.25 0.5 1 1.5 2 Miles

NOT FOR CONSTRUCTION

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Mapunit Symbol, Mapunit Name

- 13D, Gravden very gravelly loam, 5 to 20 percent slopes
- 13E, Gravden very gravelly loam, 20 to 40 percent slopes
- 28E, Lickskillet very stony loam, 7 to 40 percent slopes
- 45A, Ritzville silt loam, 0 to 2 percent slopes
- 45B, Ritzville silt loam, 2 to 7 percent slopes
- 70B, Warden very fine sandy loam, 2 to 5 percent slopes
- 70C, Warden very fine sandy loam, 5 to 12 percent slopes
- 71A, Warden silt loam, 0 to 2 percent slopes
- 71B, Warden silt loam, 2 to 5 percent slopes
- 71C, Warden silt loam, 5 to 12 percent slopes
- 75B, Willis silt loam, 2 to 5 percent slopes
- 75C, Willis silt loam, 5 to 12 percent slopes
- 78, Xeric Torriorthents, nearly level

Sunstone Solar Project

Figure I-1 Legend

MORROW COUNTY, OR

TETRA TECH PINEGATE RENEWABLES

NOT FOR CONSTRUCTION

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Attachment I-1. Draft NPDES 1200-C Erosion and Sediment Control Plan

SUNSTONE SOLAR, LLC
SUNSTONE SOLAR PROJECT
EROSION AND SEDIMENT CONTROL PLAN (ESCP) DRAWINGS

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PORTLAND, OR 97201
(503) 221-8636
www.tetratech.com

TETRA TECH

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. Hold a pre-construction meeting of project construction personnel that includes the inspector to discuss erosion and sediment control measures and construction limits. (Schedule A.8.c.i.(3))
2. All inspections must be made in accordance with DEQ 1200-C permit requirements.
3. Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements.
4. Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. During inactive periods of greater than seven (7) consecutive calendar days, retain the ESCP at the construction site or at another location. (Schedule B.2.a)
5. All permit registrants must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Schedule A 8.a)
6. The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction period, upgrade these measures as needed to comply with all applicable local, state, and federal erosion and sediment control regulations. (Schedule A.8.c.ii.(1)(c))
7. Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent. (Schedule A.12.c.iii)
8. Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Schedule A 8.c.ii.(1)(d))
9. Identify, mark, and protect (by fencing off or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Schedule A.8.c.i.(1) & (2))
10. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Schedule A.7.b.ii(1) and A.7.b.iii(3))
11. Maintain and delineate any existing natural buffer within the 50-feet of water of the state. (Schedule A.7.B.I.AND (2(o)(b))
12. Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater pollution controls. (Schedule A.7.d.i and A.8.c)
13. Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Schedule A.8.c.i.(6))
14. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and for all roadways including gravel roadways. (Schedule A.8.c.ii.(2))
15. Establish material and waste storage areas, and other non-stormwater controls. (Schedule A.8.c.i.(7))
16. Prevent tracking of sediment onto public or private roads using BMPs such as: graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities. (Schedule A 7.d.ii.(1) and A.8.c.i(4))
17. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Schedule A.7.d.ii.(3))
18. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction operations. (Schedule A.7.e.i.(2))
19. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Sch A 7.e.iii.)
20. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Schedule A 7.b.ii)
21. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Schedule A.9.b.iii)
22. If a stormwater treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain plan approval before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications. (Schedule A.9.d)
23. Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year. (Schedule A 7.b)
24. At the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Schedule A 7.e.ii.(2))
25. Construction activities must avoid or minimize excavation and creation of bare ground during wet weather. (Schedule A.7.a.i)
26. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Schedule A.9.c.i)
27. Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height. and before BMP removal. (Schedule A.9.c.ii)
28. Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Schedule A.9.c.iii & iv)
29. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean up of sediment shall be performed according to the Oregon Division of State Lands required timeframe. (Schedule A.9.b.i)
30. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Schedule A.9.b.ii)
31. The entire site must be temporarily stabilized using vegetation or a heavy mulch layer, temporary seeding, or other method should all construction activities cease for 30 days or more. (Schedule A.7.f.i)
32. Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and A tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Schedule A.7.f.ii)
33. Provide permanent erosion control measures on all exposed areas. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. However, do remove all temporary erosion control measures as exposed areas become stabilized, unless doing so conflicts with local requirements. Properly dispose of construction materials and waste, including sediment retained by temporary BMPs. (Schedule A.7.b.iii(2) and A.8.c.iii)

NARRATIVE DESCRIPTIONS

PROJECT LOCATION

APPROX. 15 MILES NORTHEAST OF LEXINGTON
MORROW COUNTY, OREGON
LATITUDE= 45°35'23" N LONGITUDE= 119°33'11" W

SITE SOIL CLASSIFICATION:

SEE SHEET ESC-1

EXISTING SITE CONDITIONS

- APPARENT STUBBLED FARM LAND
- TRANSMISSION LINE

PROPERTY DESCRIPTION

LOCATED BETWEEN LEXINGTON AND PINE CITY IN MORROW COUNTY, OREGON.

RECEIVING WATER BODIES:

WATERBODIES IN THE PROJECT AREA INCLUDE BUTTER CREEK, AND NUMEROUS INTERMITTENT/EPHEMERAL EROSIONAL FEATURES.

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

SUNSTONE SOLAR, LLC TO CONSTRUCT AND OPERATE THE SUNSTONE SOLAR PROJECT TO CONSIST OF:

- CONSTRUCTION OF A PHOTOVOLTAIC SOLAR ENERGY FACILITY WITH AN ESTIMATED NOMINAL AND AVERAGE GENERATING CAPACITY OF 1,200 MEGAWATTS OF ALTERNATING CURRENT.
- PROJECT TO BE BUILT OVER SIX PHASES (200MW PER PHASE)
- DEVELOPING ADDITIONAL COMPONENTS TO INCLUDE BATTERY ENERGY STORAGE SYSTEM, TRANSMISSION LINE, UNDERGROUND ELECTRICAL COLLECTION LINES, COLLECTOR SUBSTATIONS, SITE ACCESS ROADS, OPERATIONS AND MAINTENANCE BUILDINGS, AND TEMPORARY CONSTRUCTION AREAS.

CLEARING/GRUBBING/ACCESS ROADS (DATES, FROM: TBD & TO: TBD)
INSTALLATION OF PANEL ARRAYS (DATES, FROM: TBD & TO: TBD)

TOTAL SITE AREA: APPROXIMATELY 9,853 ACRES
POTENTIAL MAX DISTURBED AREA: APPROXIMATELY 57.8 ACRES TEMPORARY DISTURBANCE (COLLECTOR AND TRANSMISSION LINES, CONSTRUCTION AREAS PERIMETER FENCING),
APPROXIMATELY 9,441.5 ACRES PERMANENT DISTURBANCE (ARRAY AREA, BATTERY STORAGE SYSTEMS, NEW ROADS, SUBSTATIONS, O&M BUILDINGS)

SHEET INDEX

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES:

1. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF AL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
2. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
3. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMP'S THAT MUST BE INSTALLED ARE A GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE BMP'S MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
4. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 30; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS.
5. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP I.E. (FILTER BAG).
6. THE ESC PLAN MUST E KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE SYSTEM, ROADWAY, OR OTHER PROPERTIES.
7. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD THESE MEASURES SHALL BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL EROSION CONTROL REGULATIONS CHANGES TO THE APPROVED ESC PLAN MUST BE SUBMITTED IN THE FORM OF AN ACTION PLAN TO DEQ PER THE 1200 C PERMIT.
8. IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMP'S MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING OR OTHER APPROVED MEASURES.
9. ENSURE ALL SOILS ARE STABLE DURING ALL RAIN EVENTS THROUGHOUT THE YEAR.

BMP MATRIX FOR CONSTRUCTION PHASES (TYP.)

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S

	2025											
BMPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Pipe Slope Drains												
Energy Dissipaters												
Temporary Diversion Dikes												
Check Dams	x	x	x	x	x	x	x	x	x	x	x	x
Temporary Seeding and Planting											x	x
Permanent Seeding and Planting												
Mycorrhizae/Biofertilizers												
Mulches (type)							x	x	x	x	x	
Construction Entrance				x								
Compost Blankets												
Compost Socks												
Compost Berm												
Soil Trackifiers											x	x
Sodding Vegetative Buffer Strips												
Sediments Fencing	x	x	x	x	x	x	x	x	x	x	x	x
Erosio Control Blankets & Mts												
Earth Dikes												
Drainage Swales												
Rock Outlet Protection												
Sediments Trap												
Straw Wattles	X	X	X	X	X	X	X	X	X	X	X	X
Storm Drain Inlet Protection												
Temporary or Permanent Sedimentation Basins												
Unpaved Roads Graveled or other BMP on Road												
Dewatering												
Paving Operations Controls												
Concrete Truck Washout												

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

_____
INITIAL

DEVELOPER

DEVELOPER/COMPANY: SUNSTONE SOLAR, LLC
CONTACT: LOGAN STEPHENS
ADDRESS: 130 ROBERTS STREET
ASHEVILLE, NC 28801
PHONE: (336) 708-5161
EMAIL: LOGANSTEPHENS@PGRENEWABLES.COM

PLANNING/ENGINEERING/ SURVEYING FIRM

COMPANY: TETRA TECH
CONTACT: LINNEA FOSSUM
ADDRESS: 19803 NORTH CREEK PARKWAY, SUITE 100
BOTHELL, WA 98011
PHONE: (425) 482-7823
EMAIL: LINNEA.FOSSUM@TETRATECH.COM

PERMITTEE'S SITE INSPECTOR

INSPECTOR: TBD
COMPANY/AGENCY: TBD
PHONE: TBD
EMAIL: TBD
DESCRIPTION OF EXPERIENCE: TBD

INSPECTION FREQUENCY:TBD

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDIGN RUNOFF FROM SNOWMELT, IS OCCURING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESARRY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN CONSECTUTIVE CALENDAR DAYS.	ONCE EVERY TWO WEEKS.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

- HOLD A PRE-CON MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE EC INSPECTOR.
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS.
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS.
- REVSIONS TO THE APPROVED ESC PLAN MUST BE SUBMITTED TO DEQ OR AGENT IN ACCORDANCE WITH CURRENT 1200-C PERMIT

PROJECT LOCATION:

MORROW COUNTY, OREGON

CLIENT INFORMATION:

SUNSTONE SOLAR, LLC
130 ROBERTS STREET
ASHVILLE, NC 28801

Tt PROJECT No.:

194-1324-0002

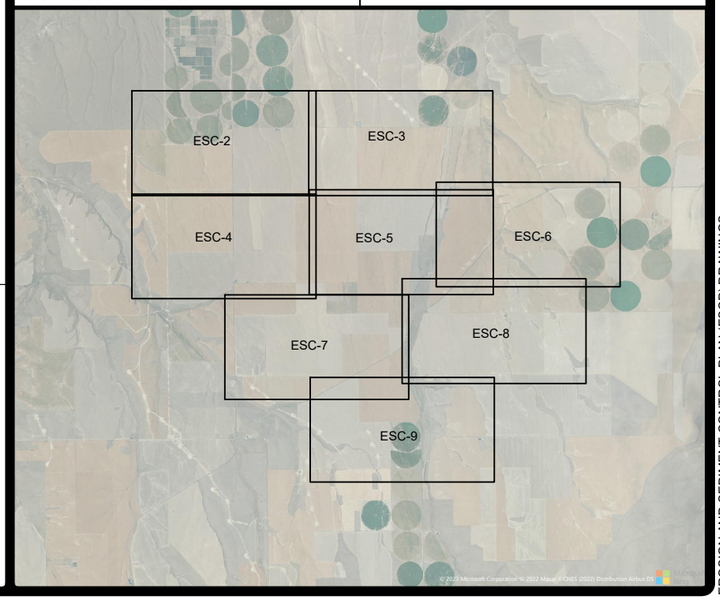
CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:

ISSUED:

ISSUED FOR DEQ REVIEW

VICINITY MAP



EROSION AND SEDIMENT CONTROL PLAN (ESCP) DRAWINGS

SITE SOIL CLASSIFICATIONS

13D	GRAVDEN VERY GRAVELLY LOAM, 5 TO 20 PERCENT SLOPES
13E	GRAVDEN VERY GRAVELLY LOAM, 20 TO 40 PERCENT SLOPES
28E	LICKSKILLET VERY STONY LOAM, 7 TO 40 PERCENT SLOPES
45A	RITZVILLE SILT LOAM, 0 TO 2 PERCENT SLOPES
45B	RITZVILLE SILT LOAM, 2 TO 7 PERCENT SLOPES
70B	WARDEN VERY FINE SANDY LOAM, 2 TO 5 PERCENT SLOPES
70C	WARDEN VERY FINE SANDY LOAM, 5 TO 12 PERCENT SLOPES
71A	WARDEN SILT LOAM, 0 TO 2 PERCENT SLOPES
71B	WARDEN SILT LOAM, 2 TO 5 PERCENT SLOPES
71C	WARDEN SILT LOAM, 5 TO 12 PERCENT SLOPES
75B	WILLIS SILT LOAM, 2 TO 5 PERCENT SLOPES
75C	WILLIS SILT LOAM, 5 TO 12 PERCENT SLOPES
78	XERIC TORRIORTHENTS, NEARLY LEVEL

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
NOTES CONT'D

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-1

Bar Measures 1 inch

GENERAL NOTES

1. THE PREDOMINANT SOIL TYPE IN THIS AREA IS HIGHLY PRONE TO BOTH WIND AND WATER EROSION. THEREFORE, THE IMPLEMENTATION OF EROSION CONTROL PRACTICES MUST BE AN INTEGRAL PART OF ALL PHASES OF CONSTRUCTION.
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KEYED NOTES

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SILT FENCE, TYP.
(SEE DETAIL ON ESC-13)

WATTLE, TYP.
(SEE DETAIL ON ESC-12)

CONSTRUCTION ENTRANCE
(SEE DETAIL ON ESC-10)

1000 1010 1020 1030 1040 1050 1060 1070

LEGEND

- KEYED NOTES
- BESS UNIT
- LAYDOWN YARD
- OM AREA
- ACCESS ROAD CENTERLINE
- SECURITY FENCE
- EXISTING DRAINAGE
- 1000 EXISTING 10' CONTOUR
- SITE BOUNDARY
- SUBSTATION
- SWITCH YARD
- TRANSMISSION LINE
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- W WATTLE

0 500 1000 2000
SCALE: 1" = 1000'

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

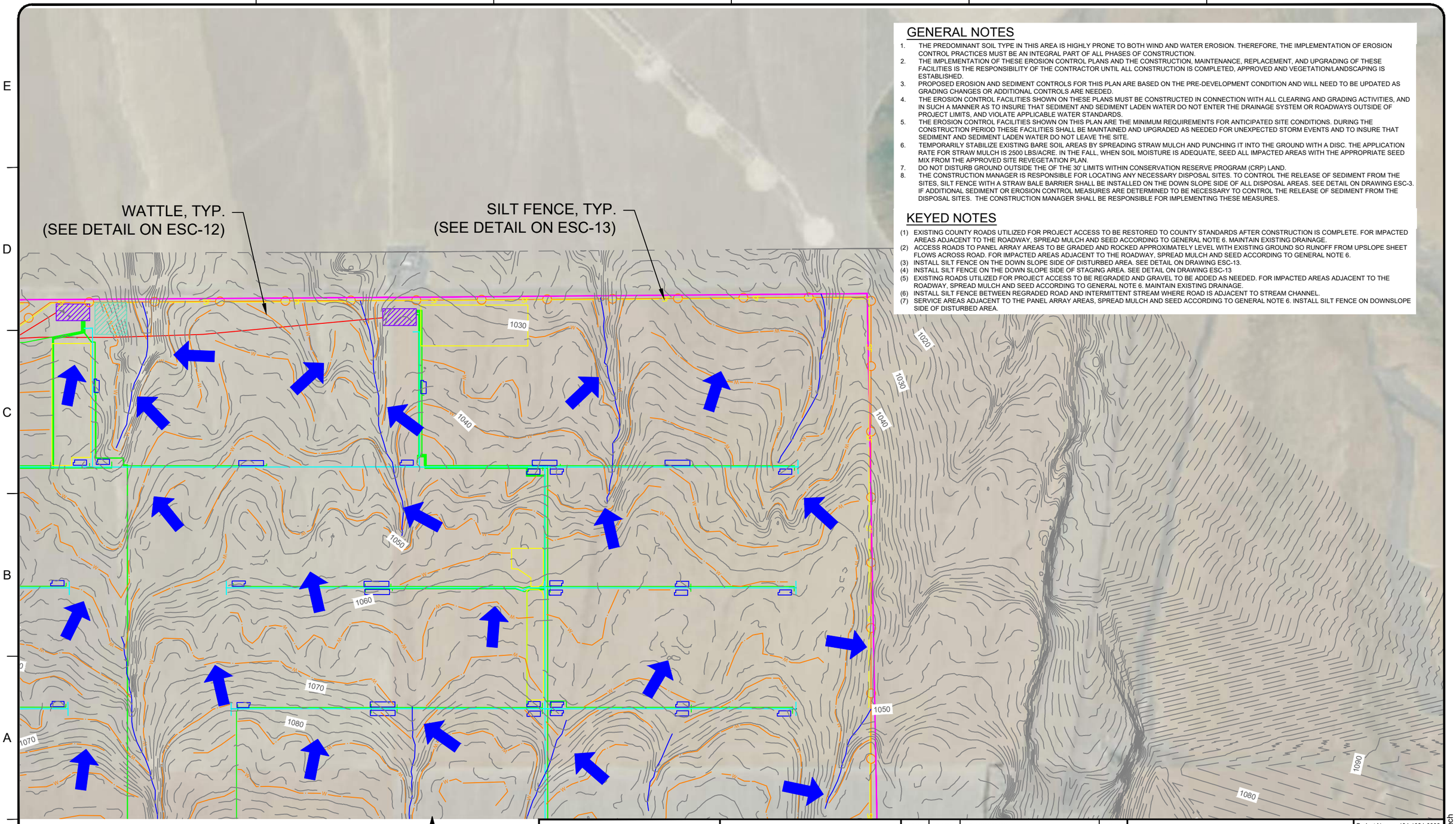
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 1

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-2

Bar Measures 1 inch



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LEGEND

- (3) KEYED NOTES
- BESS UNIT
- LAYDOWN YARD
- OM AREA
- ACCESS ROAD CENTERLINE
- SECURITY FENCE
- EXISTING DRAINAGE
- 1000 EXISTING 10' CONTOUR
- SITE BOUNDARY
- SUBSTATION
- SWITCH YARD
- TRANSMISSION LINE
- SF SILT FENCE
- W WATTLE

N

0 500 1000 2000

SCALE: 1" = 1000'

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

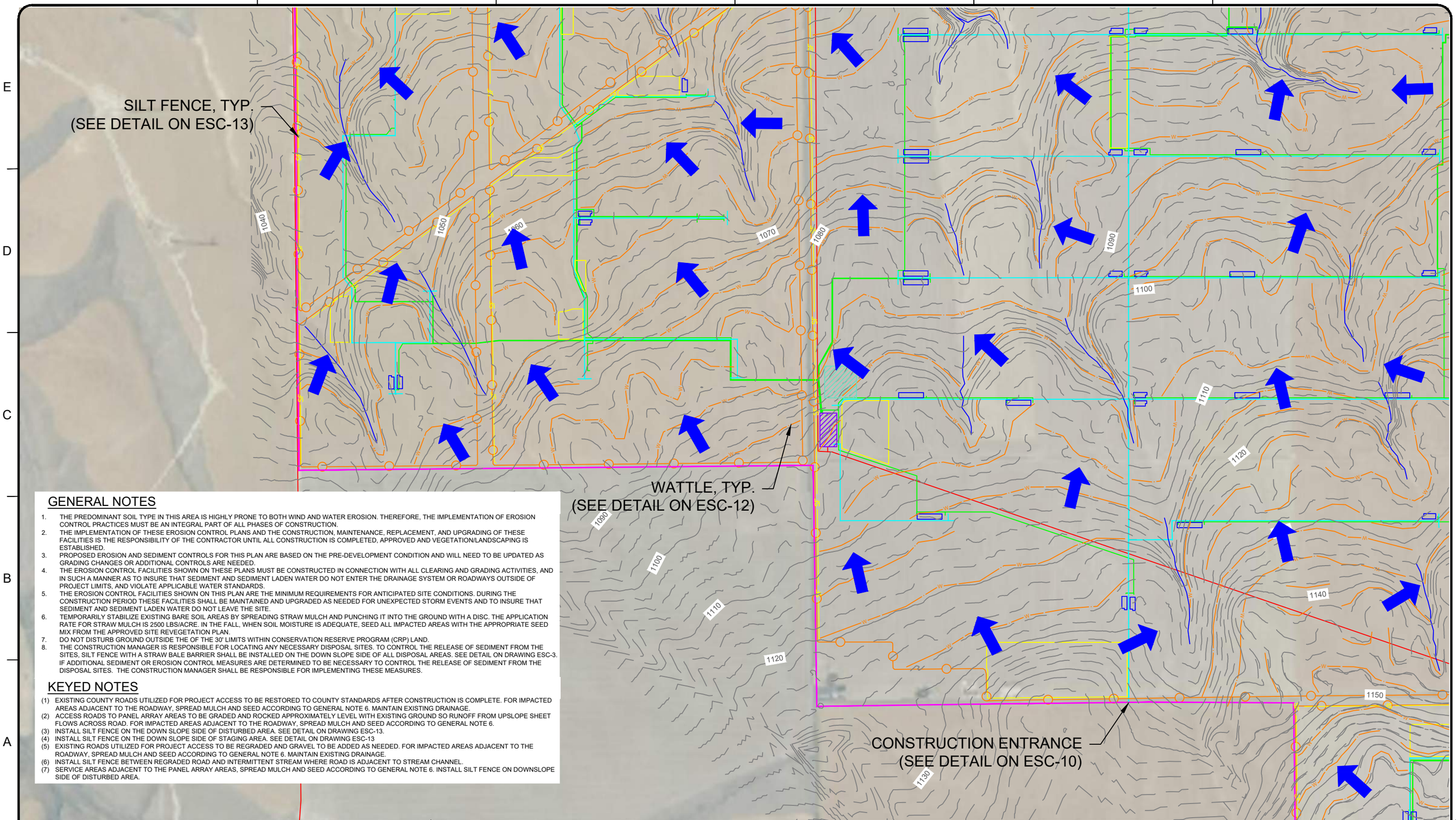
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 2

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-3

Bar Measures 1 inch



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LEGEND

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 3

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-4

Bar Measures 1 inch

SILT FENCE, TYP.
(SEE DETAIL ON ESC-13)

WATTLE, TYP.
(SEE DETAIL ON ESC-12)

GENERAL NOTES

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(3) INSTALL SILT FENCE ON THE DOWN SLOPE SIDE OF DISTURBED AREA. SEE DETAIL ON DRAWING ESC-13.
(4) INSTALL SILT FENCE ON THE DOWN SLOPE SIDE OF STAGING AREA. SEE DETAIL ON DRAWING ESC-13
(5) EXISTING ROADS UTILIZED FOR PROJECT ACCESS TO BE REGRADED AND GRAVEL TO BE ADDED AS NEEDED. FOR IMPACTED AREAS ADJACENT TO THE ROADWAY, SPREAD MULCH AND SEED ACCORDING TO GENERAL NOTE 6. MAINTAIN EXISTING DRAINAGE.
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(7) SERVICE AREAS ADJACENT TO THE PANEL ARRAY AREAS, SPREAD MULCH AND SEED ACCORDING TO GENERAL NOTE 6. INSTALL SILT FENCE ON DOWNSLOPE SIDE OF DISTURBED AREA.

LEGEND

- (3) KEYED NOTES
- BESS UNIT
- LAYDOWN YARD
- OM AREA
- ACCESS ROAD CENTERLINE
- SECURITY FENCE
- EXISTING DRAINAGE
- 1000 EXISTING 10' CONTOUR
- SITE BOUNDARY
- SUBSTATION
- SWITCH YARD
- TRANSMISSION LINE
- SF SILT FENCE
- W WATTLE

0 500 1000 2000
SCALE: 1" = 1000'

TETRA TECH
www.tetratech.com
1750 S. HARBOR WAY, SUITE 400
PORTLAND, OR 97201
PHONE: (503) 221-8636

MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

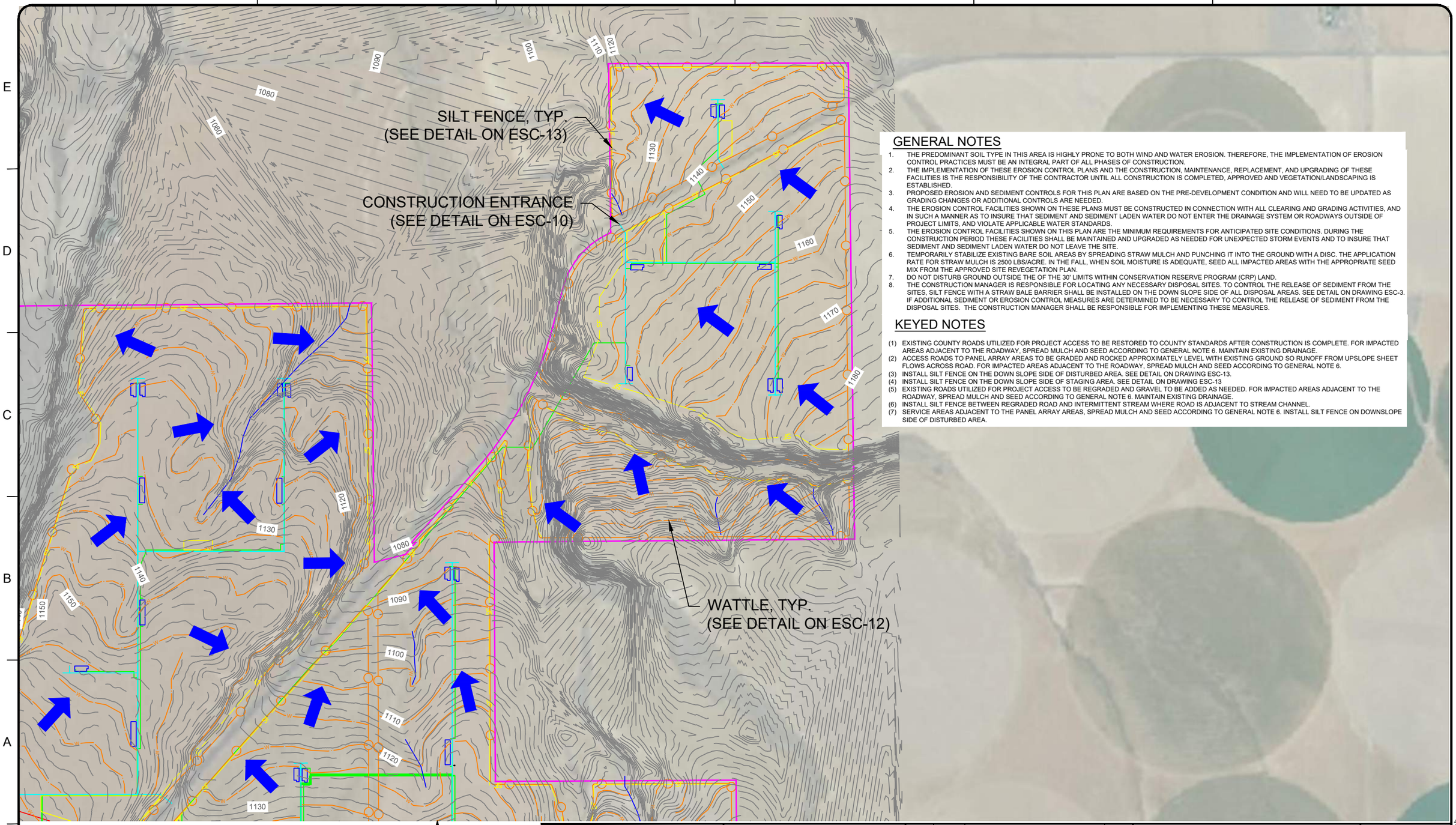
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 4

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-5

Bar Measures 1 inch



GENERAL NOTES

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3. PROPOSED EROSION AND SEDIMENT CONTROLS FOR THIS PLAN ARE BASED ON THE PRE-DEVELOPMENT CONDITION AND WILL NEED TO BE UPDATED AS GRADING CHANGES OR ADDITIONAL CONTROLS ARE NEEDED.
4. THE EROSION CONTROL FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED IN CONNECTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS OUTSIDE OF PROJECT LIMITS, AND VIOLATE APPLICABLE WATER STANDARDS.
5. THE EROSION CONTROL FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD THESE FACILITIES SHALL BE MAINTAINED AND UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
6. TEMPORARILY STABILIZE EXISTING BARE SOIL AREAS BY SPREADING STRAW MULCH AND PUNCHING IT INTO THE GROUND WITH A DISC. THE APPLICATION RATE FOR STRAW MULCH IS 2500 LBS/ACRE. IN THE FALL, WHEN SOIL MOISTURE IS ADEQUATE, SEED ALL IMPACTED AREAS WITH THE APPROPRIATE SEED MIX FROM THE APPROVED SITE REVEGETATION PLAN.
7. DO NOT DISTURB GROUND OUTSIDE THE OF THE 30' LIMITS WITHIN CONSERVATION RESERVE PROGRAM (CRP) LAND.
8. THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR LOCATING ANY NECESSARY DISPOSAL SITES. TO CONTROL THE RELEASE OF SEDIMENT FROM THE SITES, SILT FENCE WITH A STRAW BALE BARRIER SHALL BE INSTALLED ON THE DOWN SLOPE SIDE OF ALL DISPOSAL AREAS. SEE DETAIL ON DRAWING ESC-3. IF ADDITIONAL SEDIMENT OR EROSION CONTROL MEASURES ARE DETERMINED TO BE NECESSARY TO CONTROL THE RELEASE OF SEDIMENT FROM THE DISPOSAL SITES. THE CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE MEASURES.

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LEGEND

- KEYED NOTES
- BESS UNIT
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- OM AREA
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- SECURITY FENCE
- EXISTING DRAINAGE
- 1000 EXISTING 10' CONTOUR
- SITE BOUNDARY
- SUBSTATION
- SWITCH YARD
- TRANSMISSION LINE
- SILT FENCE
- WATTLE

0 500 1000 2000
SCALE: 1" = 1000'

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

SUNSTONE SOLAR PROJECT

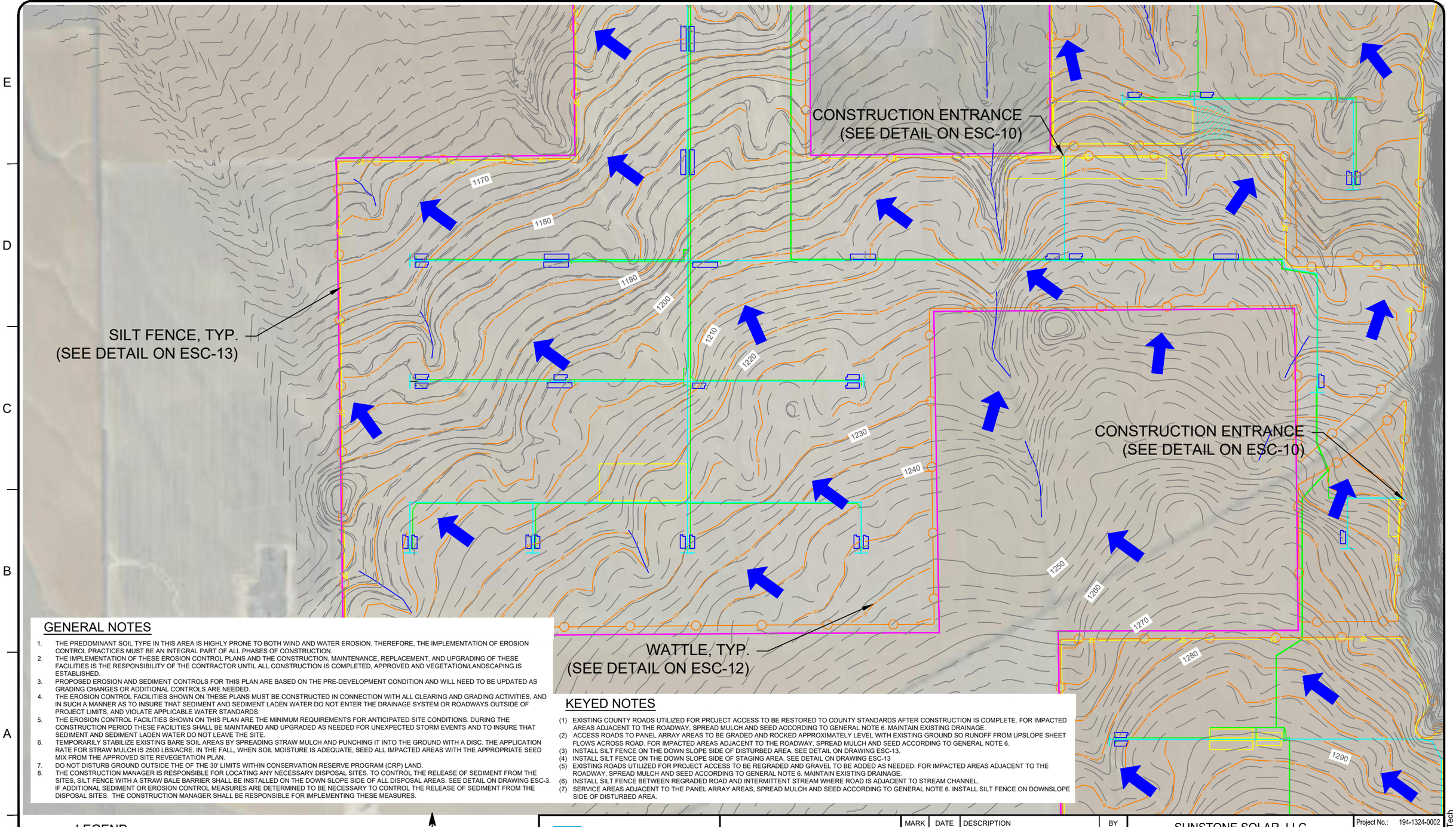
EROSION AND SEDIMENT CONTROL PLAN
AREA 5

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-6

Bar Measures 1 inch

6/19/2023 8:27:11 AM - W:\DENVER OFFICE\ENGINEERING\SOLAR\PINE GATE\ECHO SOLAR\CAD\ECHO SOLAR CAD FILES - CN.DWG - NIETEN, CAITLIN



GENERAL NOTES

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LEGEND

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0 500 1000 2000
SCALE: 1" = 1000'

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 6

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-7

Bar Measures 1 inch

1 2 3 4 5 6

E D C B A

CONSTRUCTION ENTRANCE
(SEE DETAIL ESC-10)

SILT FENCE, TYP.
(SEE DETAIL ESC-13)

CONSTRUCTION ENTRANCE
(SEE DETAIL ESC-10)

WATTLE, TYP.
(SEE DETAIL ESC-12)

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LEGEND

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N

0 500 1000 2000

SCALE: 1" = 1000'

TETRA TECH
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1750 S. HARBOR WAY, SUITE 400
PORTLAND, OR 97201
PHONE: (503) 221-8636

MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

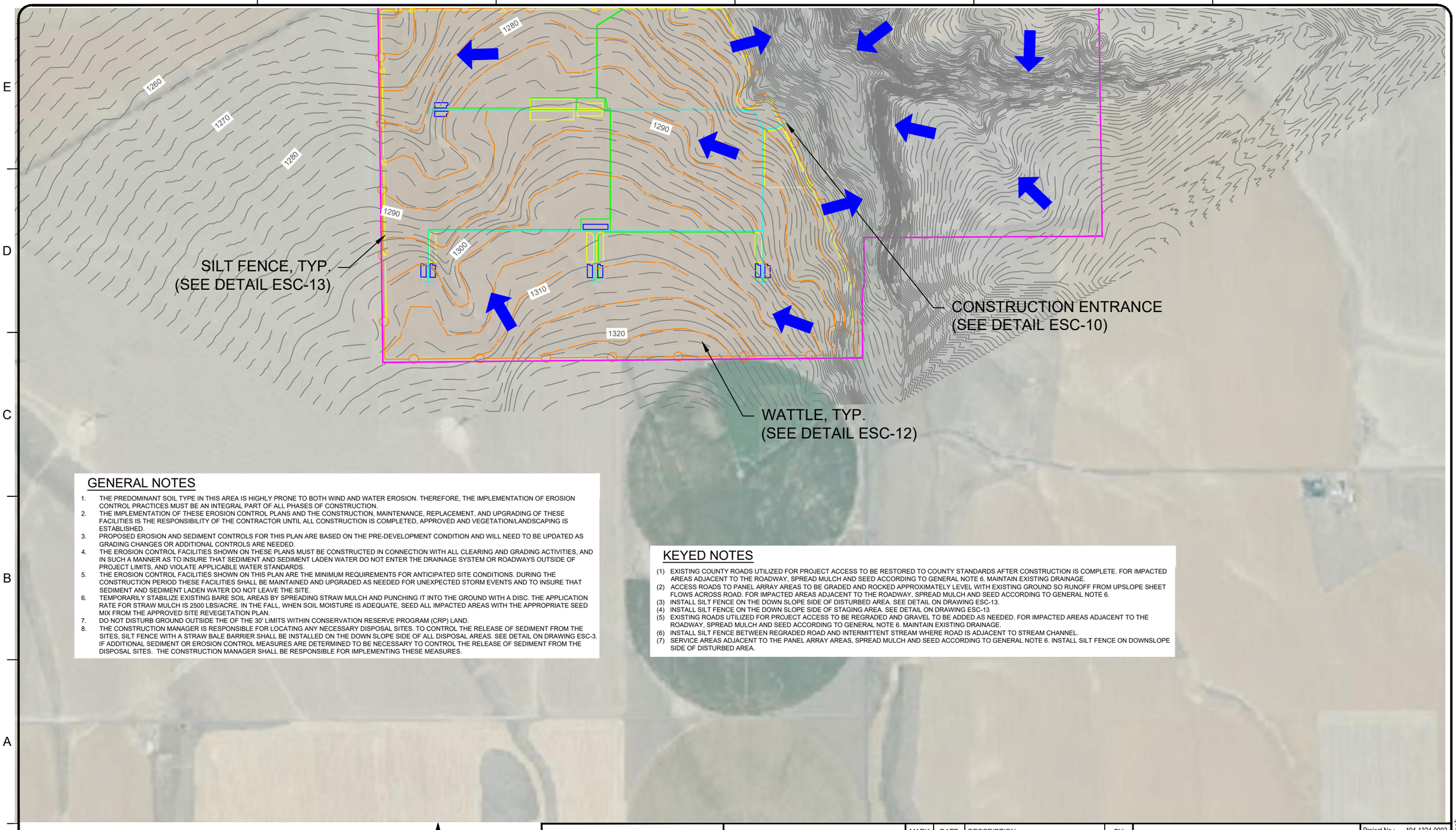
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 7

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-8

Bar Measures 1 inch



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LEGEND

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SCALE: 1" = 1000'

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

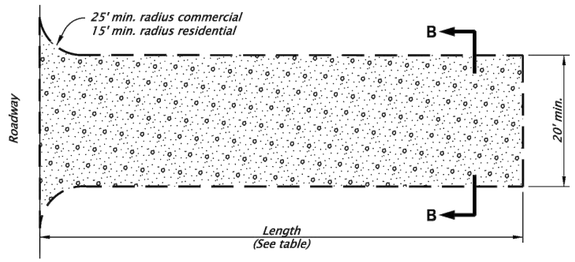
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN
AREA 8

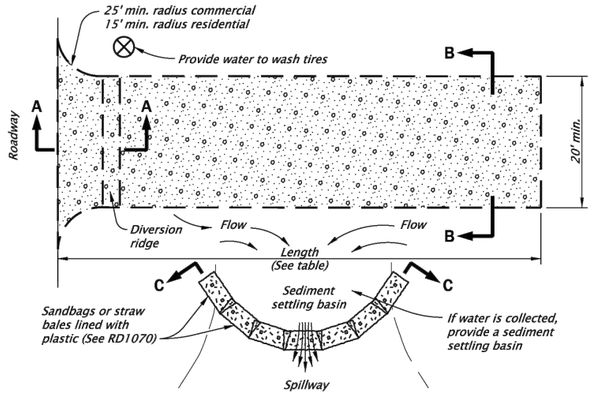
Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-9

Bar Measures 1 inch



CONSTRUCTION ENTRANCE - TYPE 1
NOT TO SCALE



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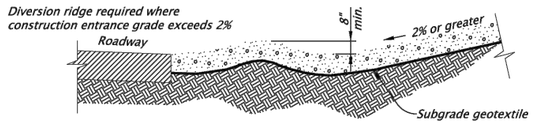
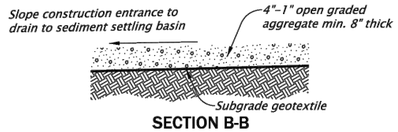
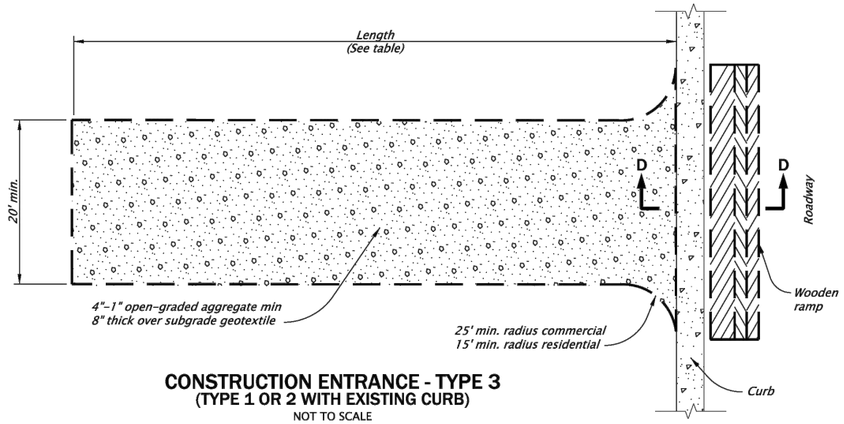
NOT TO SCALE



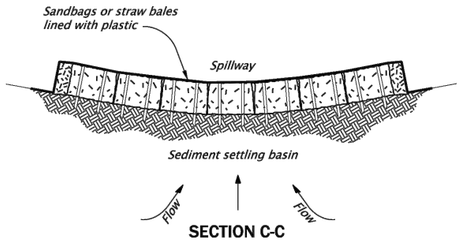
SECTION A-A
NOT TO SCALE



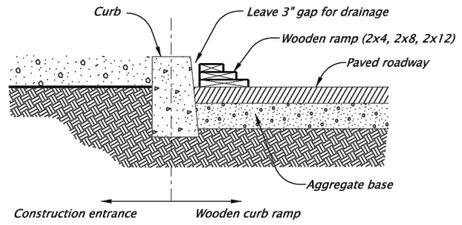
SECTION B-B
NOT TO SCALE



CONSTRUCTION ENTRANCE - TYPE 3
(TYPE 1 OR 2 WITH EXISTING CURB)
NOT TO SCALE



SECTION C-C
NOT TO SCALE



WOODEN CURB RAMP SECTION D-D
NOT TO SCALE

NOTES:
1. *The Type 1 entrance is a simple entrance without a diversion ridge or settling basin.*
2. *The wooden ramp may be used on either Type 1 or Type 2 entrances in situations where there is curb and the curb is not removed for the construction entrance.*

CONSTRUCTION ENTRANCE TABLE MINIMUM LENGTH	
Length (FT)	*Area Of Exposed Soil (Acre)*
20	*0.25*
50	*0.25 < A < 1.0*
100	*A > 1.0*

CALC. BOOK NO. N/A

SDR DATE January, 2021

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OREGON STANDARD DRAWINGS

CONSTRUCTION ENTRANCES

2021

DATE	REVISION DESCRIPTION
Jan 2021	Removed Calc book numbers

Effective Date: June 1, 2022 - November 30, 2022

RD1000

RD1000 01-20-2021 rd1000.dgn

TETRA TECH
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PORTLAND, OR 97201
PHONE: (503) 221-8636

MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

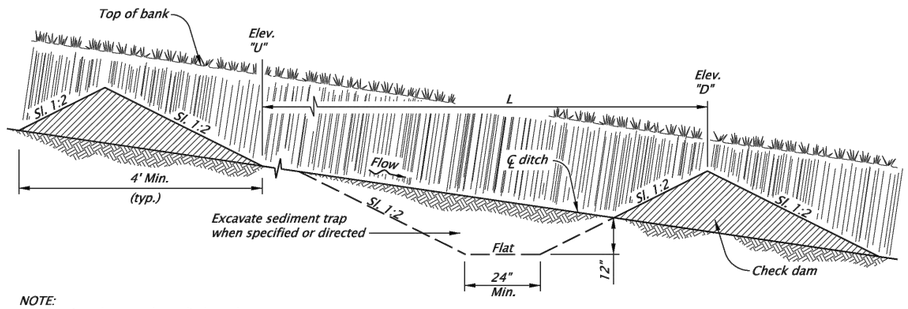
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN DETAILS

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-10

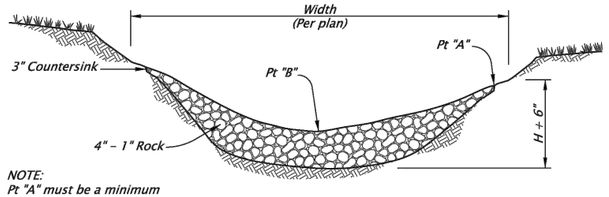
Bar Measures 1 inch



NOTE:
L = Spacing along swale or ditch so that Elevation "U" equals Elevation "D".

TYPICAL PROFILE SECTION CHECK DAMS (SHOWN WITH AGGREGATE)

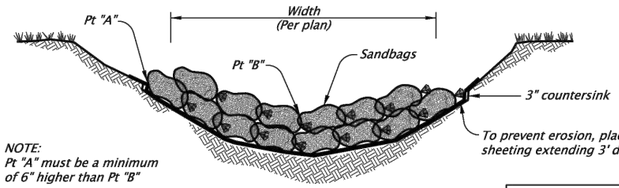
NOT TO SCALE



NOTE:
Pt "A" must be a minimum of 6" higher than Pt "B"

AGGREGATE CHECK DAM - TYPE 1

NOT TO SCALE



NOTE:
Pt "A" must be a minimum of 6" higher than Pt "B"

SANDBAG CHECK DAM - TYPE 4

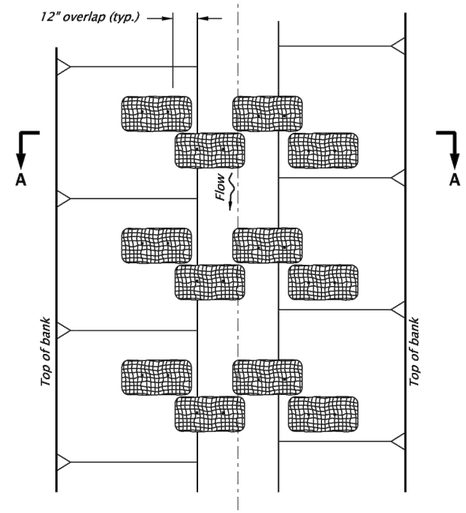
NOT TO SCALE

MAXIMUM CHECK DAM SPACING "L"

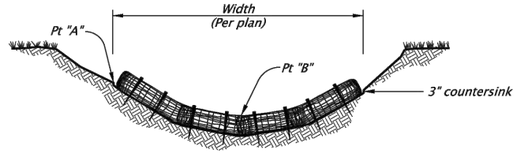
Ditch Grade	H=8"	H=12"	H=18"	H=24"
10%	* *	* *	15'	20'
9%	* *	* *	16'	22'
8%	* *	* *	18'	25'
7%	* *	* *	21'	28'
6%	* *	16'	25'	33'
5%	* *	20'	30'	40'
4%	16'	25'	37'	50'
3%	22'	33'	50'	66'
2%	33'	50'	75'	100'

* * Not allowed H = Min. dam height

NOTES:
1. *Type 3 – stake biofilter bags with two 2"x2"x18" (minimum) wood stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags. Omit stakes if placed over paved surfaces. Overlap bags 12" minimum at each joint.*
2. *Type 4 – Tightly abut or overlap ends of sandbags at each joint.*
3. *Spacing between check dams for all check dam types shall comply with the typical profile section shown above.*



PLAN



SECTION A-A

BIOFILTER BAG CHECK DAM - TYPE 3

NOT TO SCALE

CALC. BOOK NO. 6407

SDR DATE July, 2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

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OREGON STANDARD DRAWINGS

CHECK DAMS TYPE 1, 3 AND 4

2021

DATE	REVISION DESCRIPTION

RD1005

Effective Date: December 1, 2020 - May 31, 2021

RD1005

rd1005.dgn 07-01-2020

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

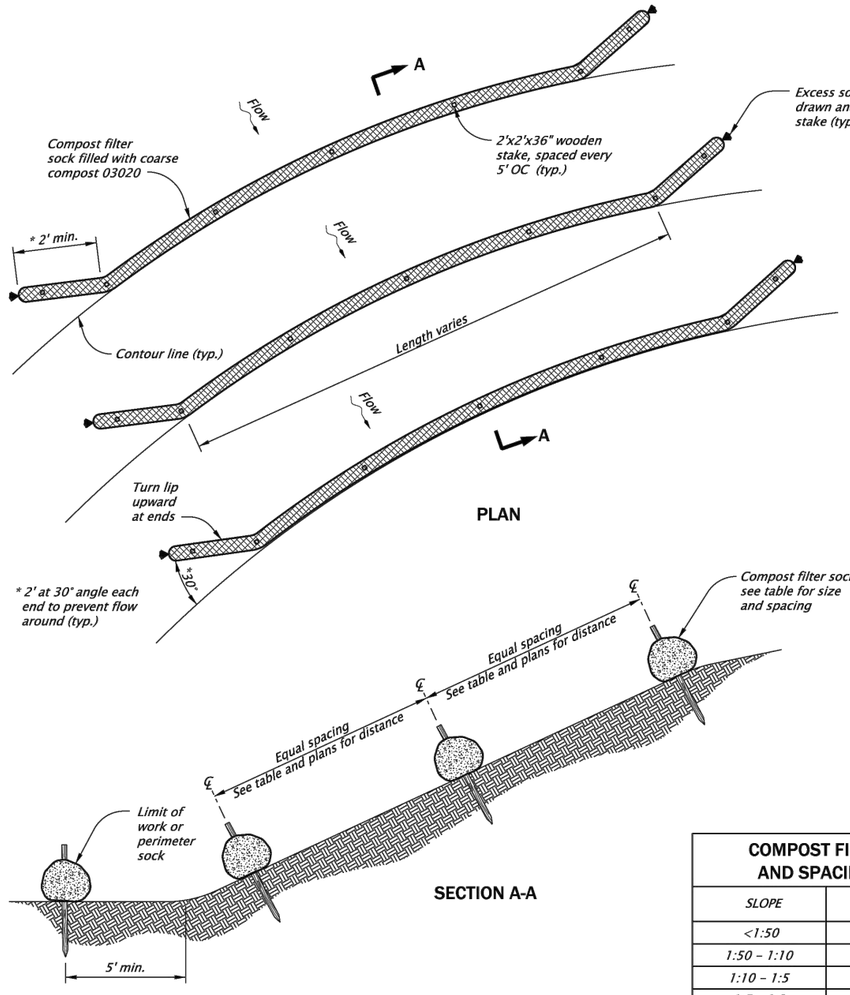
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN DETAILS

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

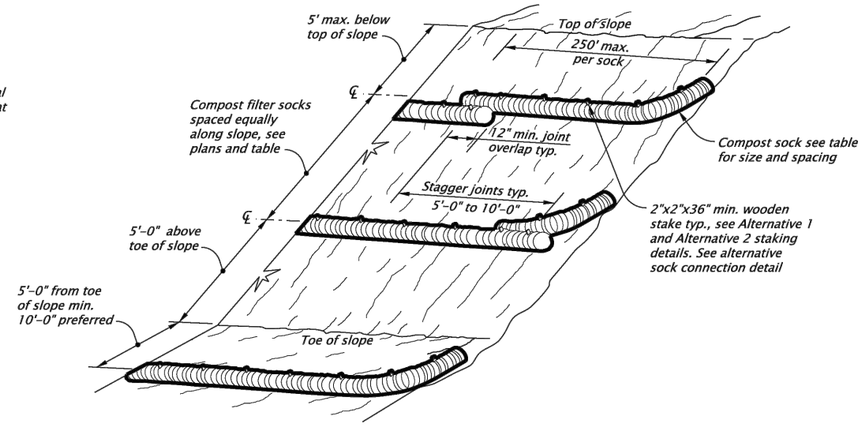
ESC-11

Bar Measures 1 inch

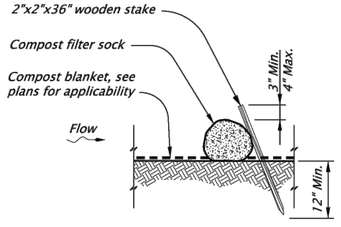


PLAN

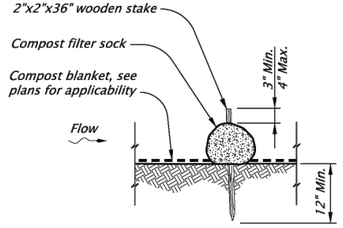
SECTION A-A



SLOPE APPLICATION - PERSPECTIVE VIEW



ALTERNATIVE 1 (Staking)



ALTERNATIVE 2 (Staking)

COMPOST FILTER SOCK DIAMETER AND SPACING BASED ON SLOPE		
SLOPE	*SPACING (ft)*	*DIAMETER (in)*
<1:50	*250*	*8*
1:50 – 1:10	*125*	*12*
1:10 – 1:5	*100*	*12*
1:5 – 1:2	*50*	*18*
>1:2	*25*	*18*

COMPOST FILTER SOCK (WATTLE)
NOT TO SCALE

NOTE:
Fully biodegradable compost sock mesh is recommended for permanent installations. Where compost socks must be moved or removed, synthetic sock mesh should be used.

CALC. BOOK NO. N/A

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SDR DATE January, 2021

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

SEDIMENT BARRIER TYPE 8

2021

DATE	REVISION DESCRIPTION
Jan 2021	Removed Calc book numbers

RD1032

Effective Date: June 1, 2021 - November 30, 2021

RD1032

rd1032.dgn 01-20-2021

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

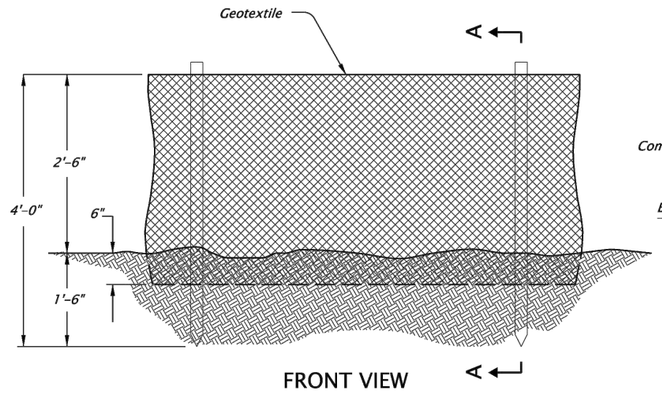
SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN DETAILS

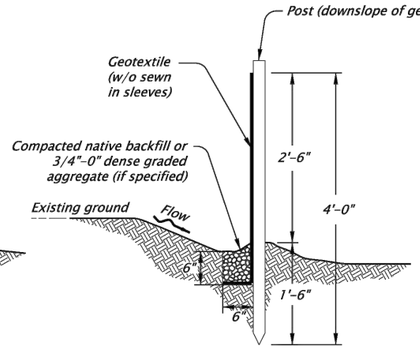
Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-12

Bar Measures 1 inch

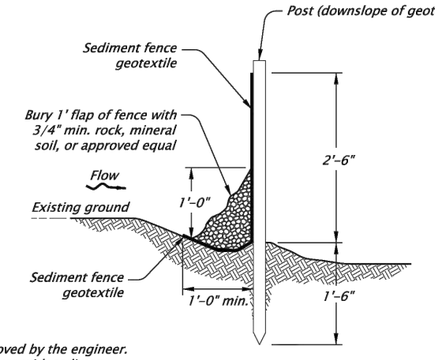


FRONT VIEW



SECTION A-A

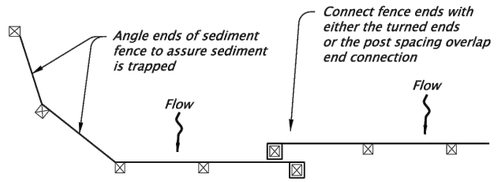
SEDIMENT FENCE AND GEOTEXTILE BURY DETAIL - TYPE 1



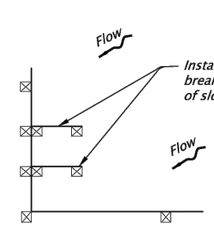
NOTES:

1. Use must be approved by the engineer.
2. Not approved for use with sediment fencing with sewn-in post sleeves.

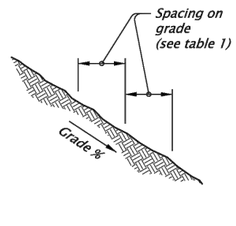
ALTERNATE SEDIMENT FENCE W/O TRENCHING - TYPE 2



PLAN VIEW



TERMINATION AT CORNER OR PROPERTY LINE



NOTES:

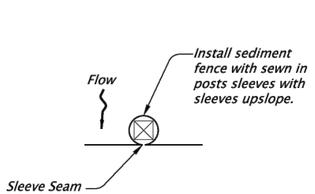
1. Use 2" X 2" wood fence posts.
2. Posts to be installed on downhill side of sediment fence geotextile. Position posts to prevent separation from geotextile.
3. Compact filter fabric trench backfill and soil on uphill side of fence.
4. Locate fence no closer than three feet to the toe of a slope.
5. Wing spacing shall comply with table 1.

TABLE 1
FENCE SPACING
FOR GENERAL APPLICATION

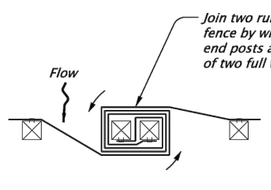
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS	
GRADE	MAXIMUM SPACING ON GRADE
Grade <10%	300'
10% ≤ Grade <15%	150'
15% ≤ Grade <20%	100'
20% ≤ Grade <30%	50'
30% ≤ Grade	25'

TABLE 2

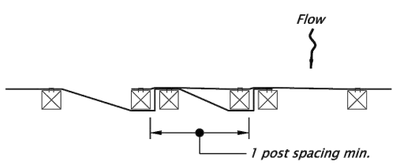
POST SPACING	
6'	Sediment Fence with Geotextile elongation less than 50%
4'	Sediment Fence with Geotextile elongation 50% or more



GEOTEXTILE WITH POST SLEEVES



TURNED ENDS CONNECTION



POST SPACING OVERLAP CONNECTION

GEOTEXTILE END CONNECTIONS

RD1040

CALC. BOOK NO. _ 6403, 6404, 6405 _

BASELINE REPORT DATE _ _ _ November 2017 _ _ _ _

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OREGON STANDARD DRAWINGS

SEDIMENT FENCE

2018

DATE	REVISION DESCRIPTION

Effective Date: June 1, 2020 - November 30, 2020

RD1040

rd1040.dgn 11-08-2017

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MARK	DATE	DESCRIPTION	BY

SUNSTONE SOLAR, LLC

SUNSTONE SOLAR PROJECT

EROSION AND SEDIMENT CONTROL PLAN DETAILS

Project No.:	194-1324-0002
Designed By:	JTB
Drawn By:	CAN
Checked By:	JPP

ESC-13

Bar Measures 1 inch