EXHIBIT A

LEGEND:

- PROJECT BOUNDARY
- NON-PARTICIPATING PROPERTY
- RIGHT-OF-WAY LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. GRAVEL ROAD
- EX. CULVERT
- EX. OVERHEAD POWER
- EX. WATER LINE
- EX. SANITARY LINE
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- PREVIOUS 4 MW DISTURBANCE LIMIT
- PROPOSED 3 MW DISTURBANCE LIMIT

Westwood

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Westwood Surveying and Engineering, P.C.

PREPARED FOR:

US SOLAR

100 N 6th St. #218c
Minneapolis, MN, 55403

REVISIONS:

#	DATE	COMMENT
A	11/01/23	Footprint Comparison Exhibit

0' 150' 300' 450'

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

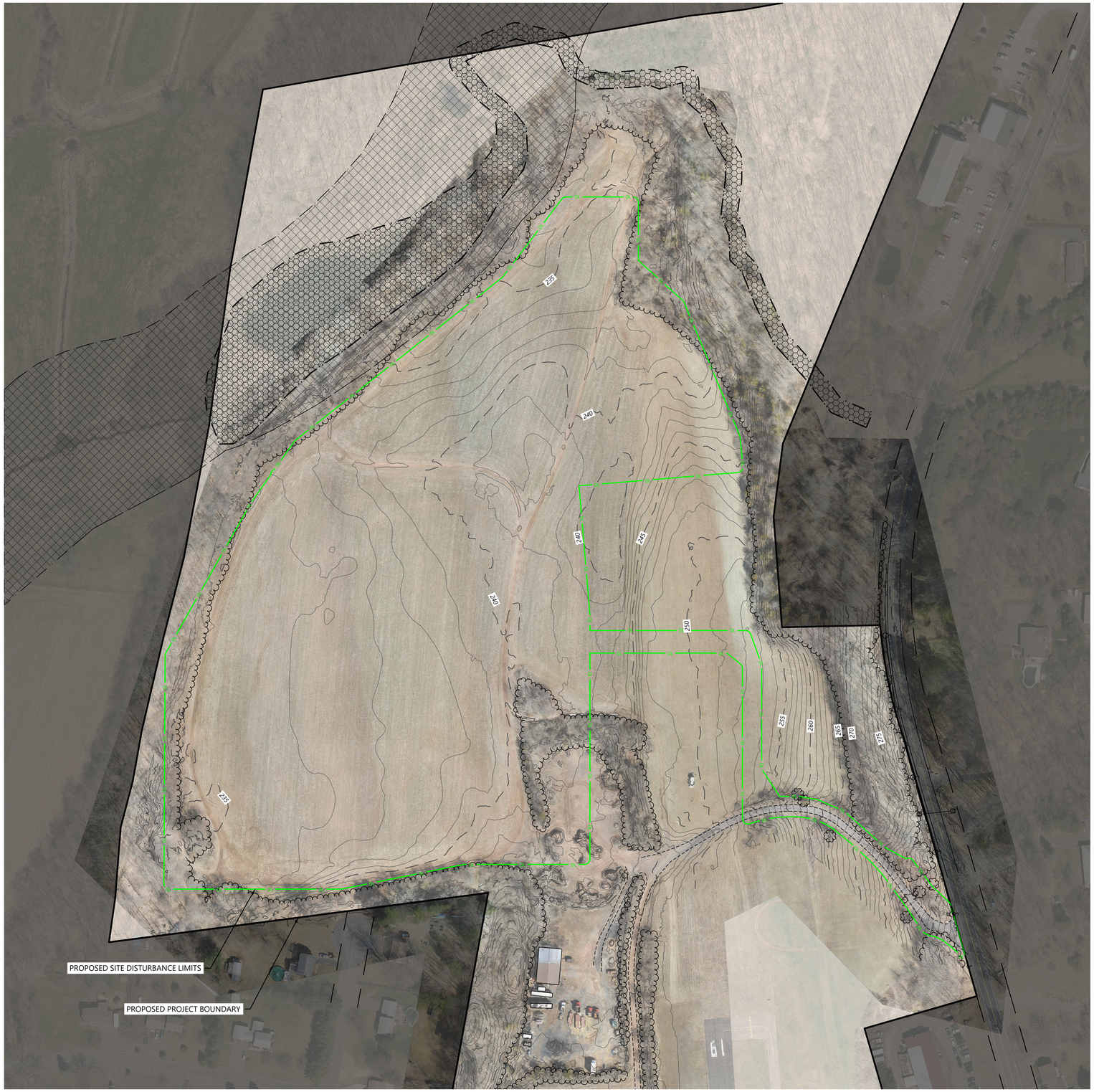
Footprint Comparison Exhibit

NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: EB03

EXHIBIT B



LEGEND:

- PROJECT BOUNDARY
- NON-PARTICIPATING PROPERTY
- RIGHT-OF-WAY LINES
- 900 EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. GRAVEL ROAD
- STO EX. CULVERT
- POH EX. OVERHEAD POWER
- WAT EX. WATER LINE
- SAN EX. SANITARY LINE
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- DL PROPOSED LIMITS OF DISTURBANCE

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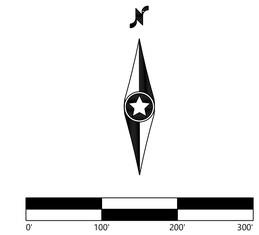
Minneapolis, MN, 55403

REVISIONS:

#	DATE	COMMENT
A	11/03/23	Site Boundary Exhibit



USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Site Boundary Exhibit

NOT FOR CONSTRUCTION

DATE: 11/03/2023

SHEET: EB04

M:\00283111.00\dwg\Exhibit\00283111508-04 Site Boundary.dwg, 11/2/2023 10:27 AM Samantha Mikael

EXHIBIT C

LEGEND:

- PROJECT BOUNDARY
- NON-PARTICIPATING PROPERTY
- RIGHT-OF-WAY LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. GRAVEL ROAD
- EX. CULVERT
- EX. OVERHEAD POWER
- EX. WATER LINE
- EX. SANITARY LINE
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- WETLAND SETBACK LINE
- YARD SETBACK LINE
- PROPOSED SINGLE AXIS TRACKER
- PROPOSED SWITCHBOARD AND TRANSFORMER PAD
- PROPOSED UTILITY POWER POLE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED STORMWATER BASIN AND BERM
- PROPOSED STORMWATER DITCH

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Minneapolis, MN, 55403

REVISIONS:

#	DATE	COMMENT
A	11/03/23	Off-Site Residence Distances Exhibit

0' 120' 240' 360'

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Off-Site Residences Distances Exhibit

DATE: 11/03/2023

SHEET: EB05

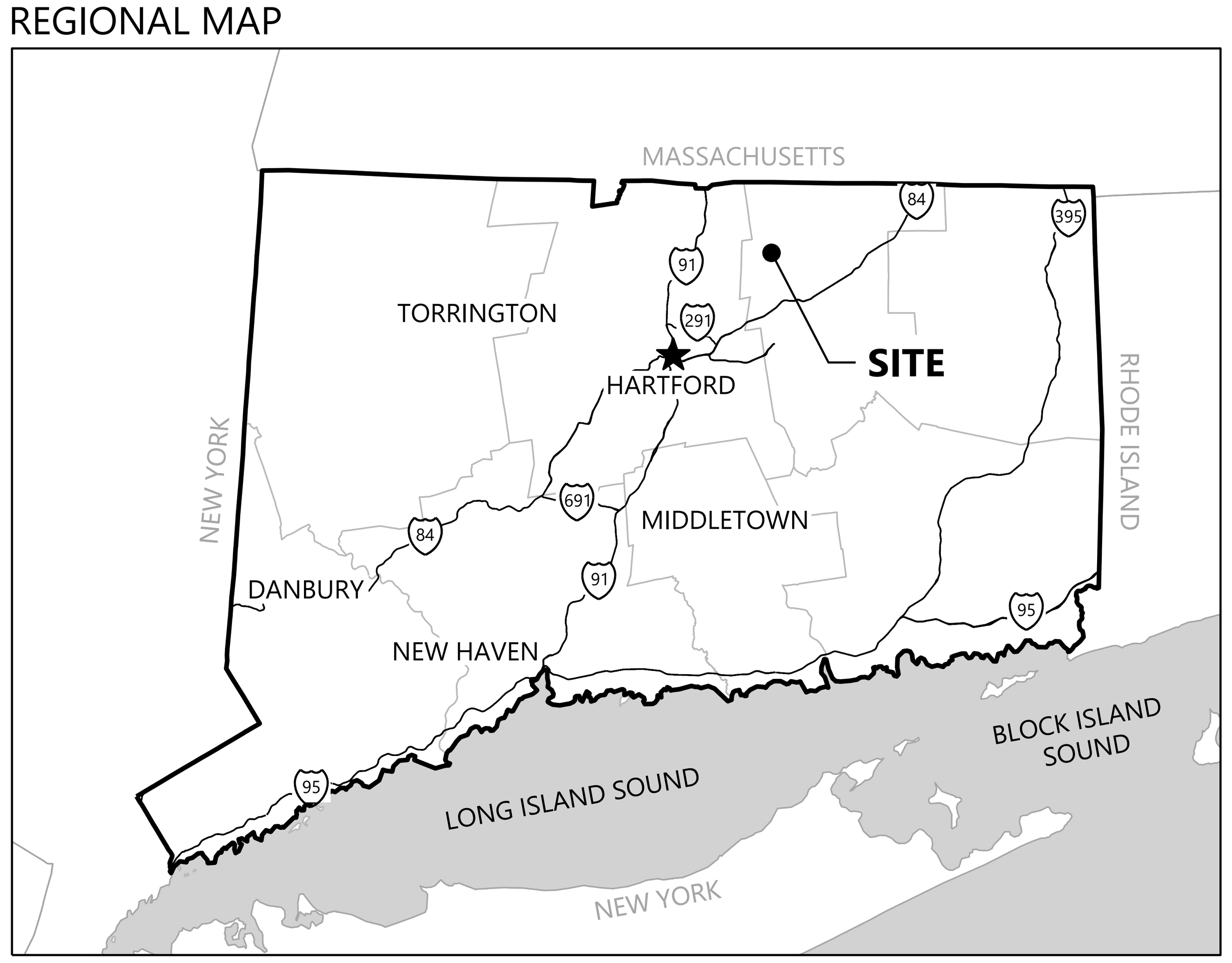
EXHIBIT D

USS Somers Solar LLC

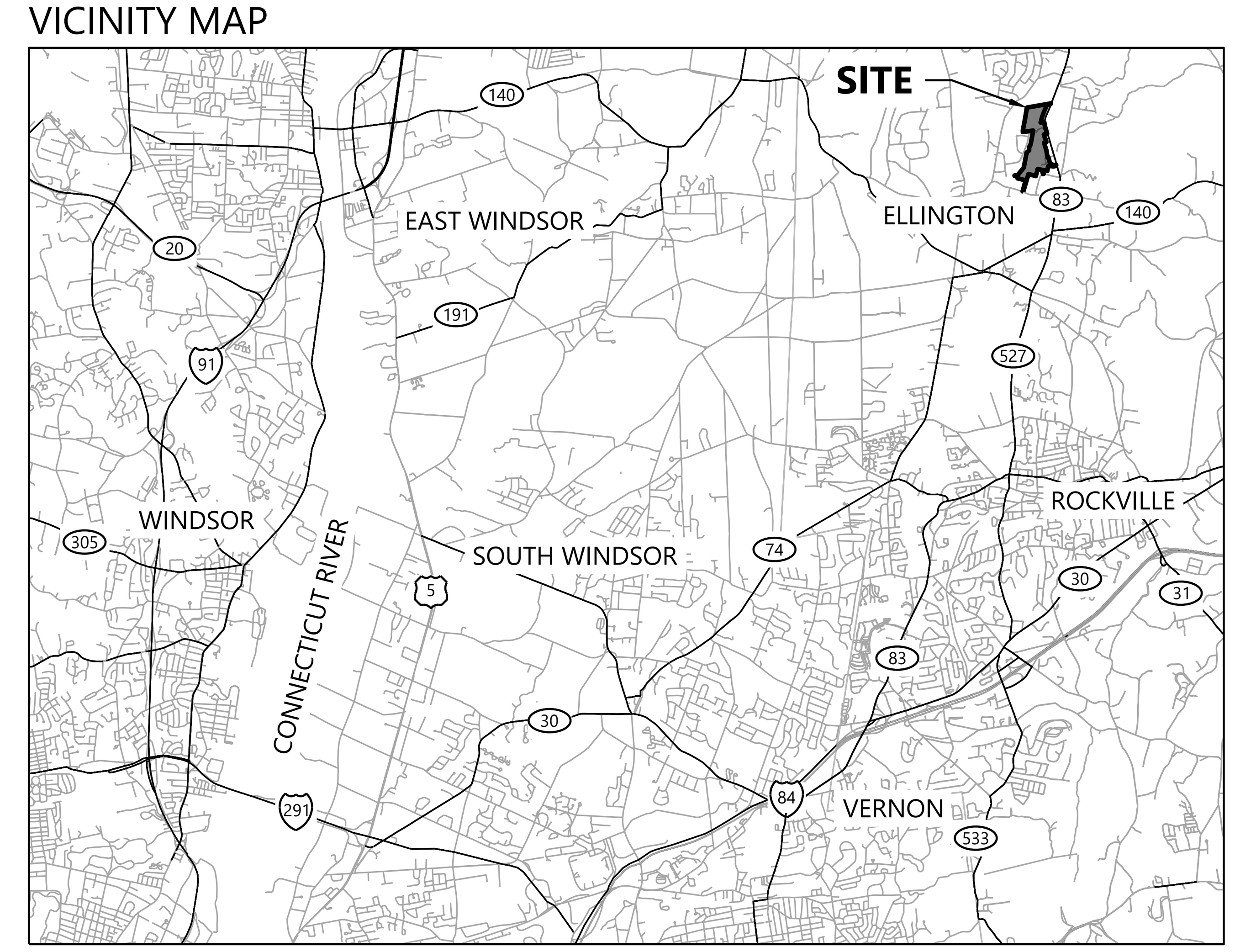
Tolland County, CT

Sediment Erosion and Sediment Control Plans

REGIONAL MAP



VICINITY MAP



SHEET NUMBER	SHEET TITLE
C001	Cover
C100	Existing Conditions
C101	Existing Conditions
C102	Existing Conditions
C103	Existing Conditions
C106	Overall Site Plan
C200	PV Site Plan
C201	PV Site Plan
C202	PV Site Plan
C203	PV Site Plan
C300	Sedimentation & Erosion Control Plan - Phase 1
C301	Sedimentation & Erosion Control Plan - Phase 1
C302	Sedimentation & Erosion Control Plan - Phase 1

Sheet List Table

SHEET NUMBER	SHEET TITLE
C303	Sedimentation & Erosion Control Plan - Phase 1
C310	Sedimentation & Erosion Control Plan - Phase 2
C311	Sedimentation & Erosion Control Plan - Phase 2
C312	Sedimentation & Erosion Control Plan - Phase 2
C313	Sedimentation & Erosion Control Plan - Phase 2
C320	Sedimentation & Erosion Control Plan - Phase 3
C321	Sedimentation & Erosion Control Plan - Phase 3
C322	Sedimentation & Erosion Control Plan - Phase 3
C323	Sedimentation & Erosion Control Plan - Phase 3
C400	Construction Details
C401	Construction Details
C402	Construction Details
C403	Construction Notes

CONTACT INFORMATION

	COMPANY	CONTACT	PHONE	ADDRESS
PROJECT OWNER/DEVELOPER	UNITED STATES SOLAR CORPORATION	PETER SCHMITT	612-299-1434	100 N 6TH ST. #218C, MINNEAPOLIS, MN, 55403
PROJECT MANAGER	WESTWOOD SURVEYING AND ENGINEERING, P.C.	MITCHELL OTT, P.E. (WI)	608-821-6603	8401 GREENWAY BLVD., #400 MIDDLETON, WI 53562
PROJECT CIVIL ENGINEER	WESTWOOD SURVEYING AND ENGINEERING, P.C.	JOE DIETRICH, P.E. (CT)	215-855-7477	1684 S. BROAD ST., #120 LANSDALE, PA 19446

PROJECT LOCATION (APPROXIMATE CENTER OF SITE)

LATITUDE = 41.928319° N
LONGITUDE = 72.455663° W

PROJECT COORDINATE SYSTEM

BEARINGS & DIMENSIONS ARE BASED ON
NSRS 2011, CONNECTICUT STATE PLANES ZONE, US FOOT

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100 N 6th St. #410B
Minneapolis, MN, 55403

REVISIONS:

#	DATE	COMMENT
A	11/18/22	Issued for CSC Petition
B	03/20/23	Issued for CSC Petition
C	05/17/23	Issued for CSC Petition
D	07/28/23	Issued for CSC Petition
E	11/01/23	Issued for CSC Petition

USS Somers Solar LLC

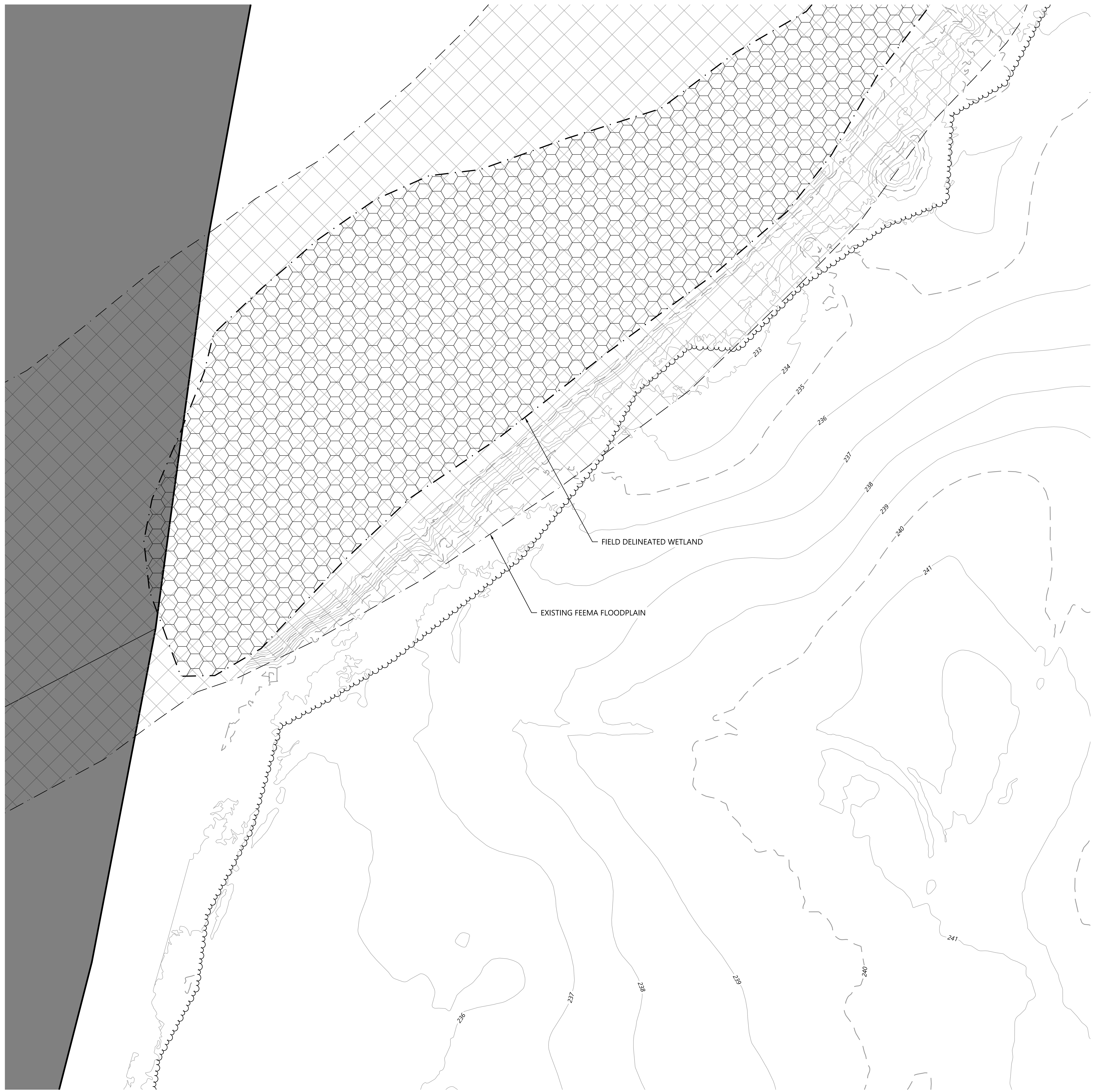
Tolland County, Town of Ellington, CT

Cover

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C001



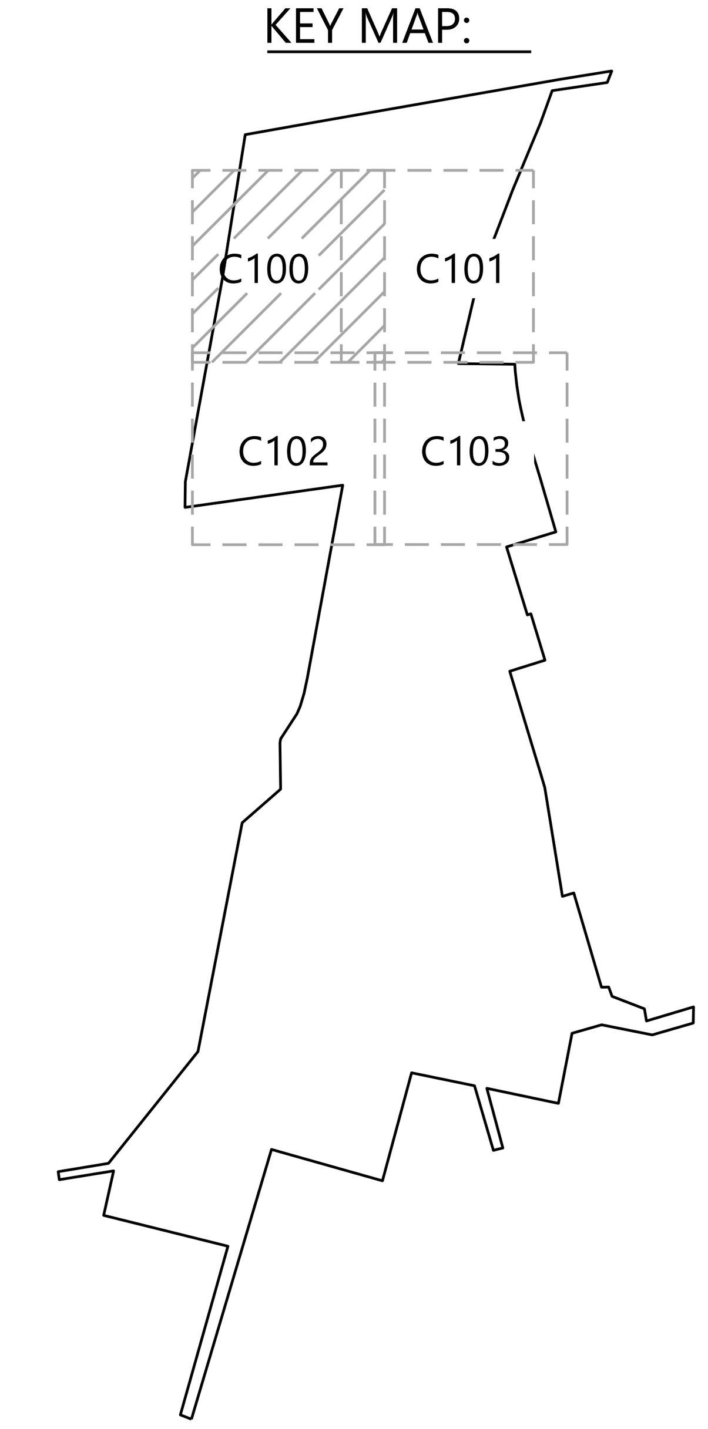
SEE SHEET C101

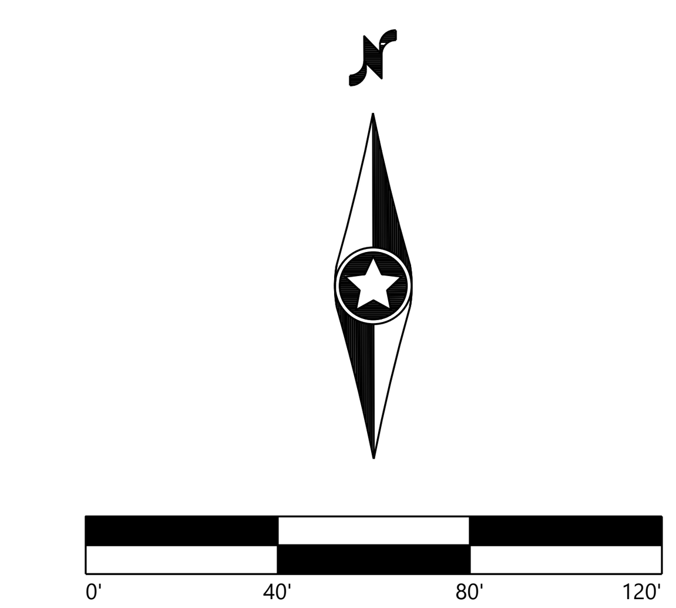
SEE SHEET C102

LEGEND

- PROPERTY LINE
- EX. RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. FIELD DELINEATED WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING

KEY MAP:





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USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Existing Conditions

ISSUED FOR CSC PETITION
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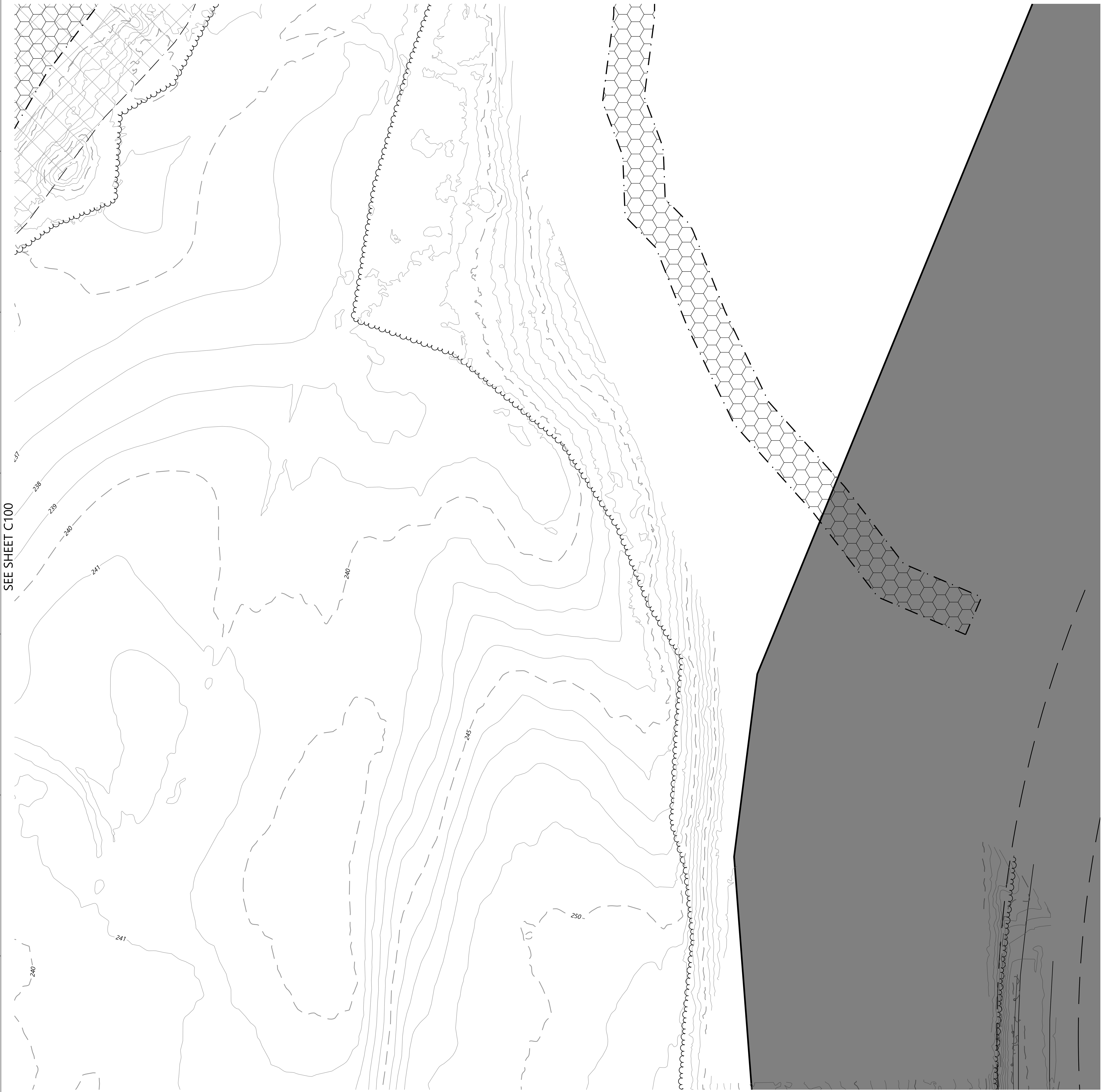
DATE: 11/01/2023

SHEET: C100



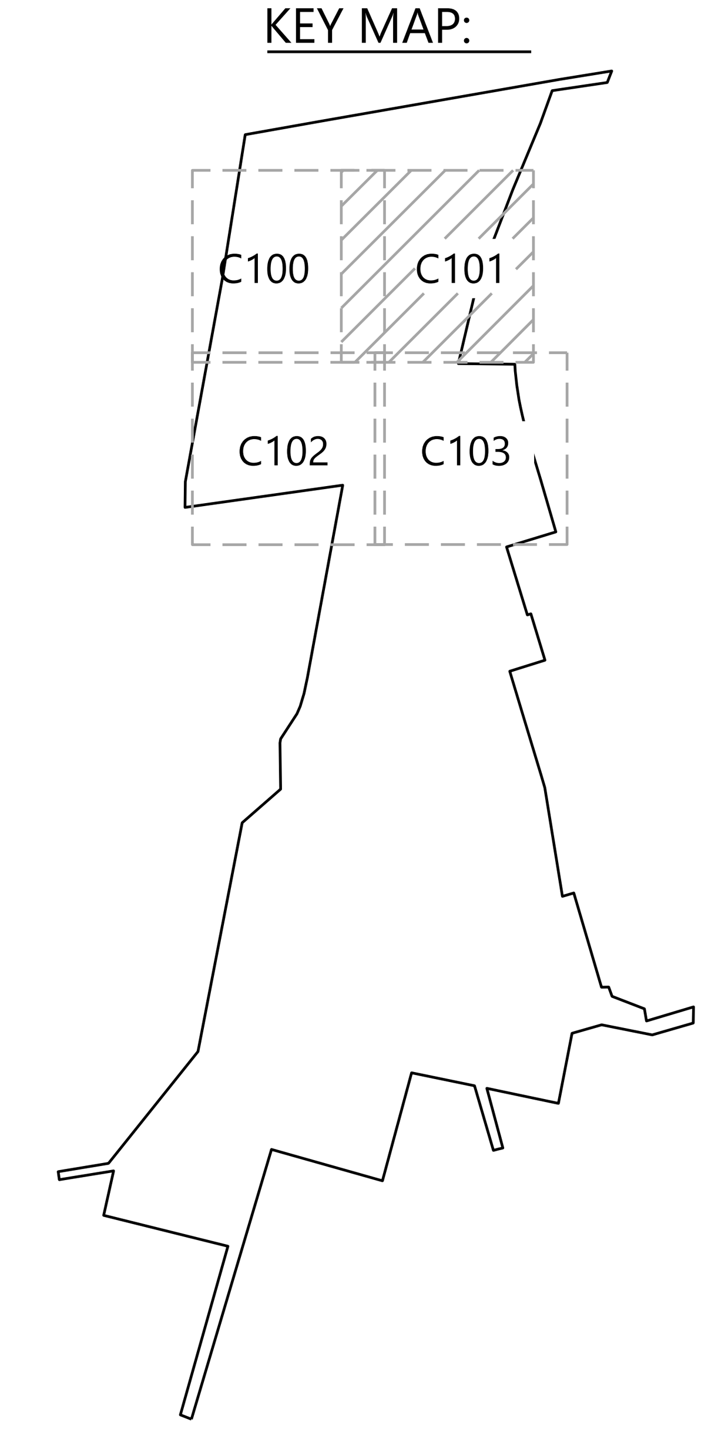
SEE SHEET C100

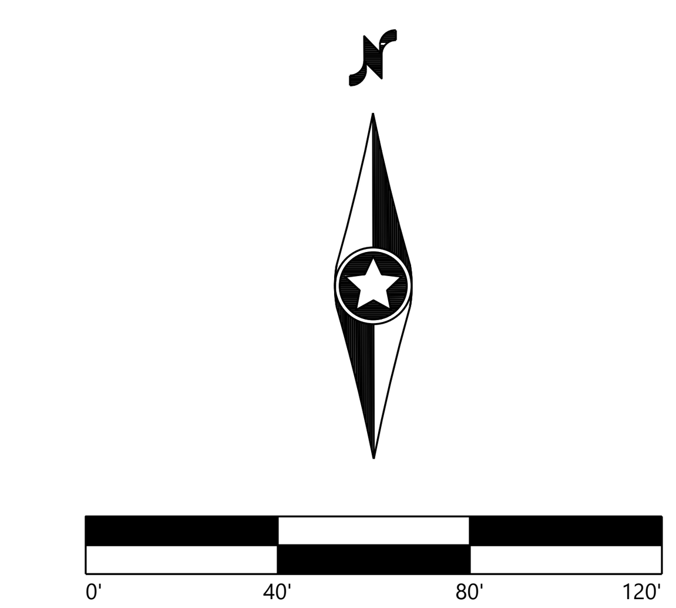
SEE SHEET C103

LEGEND

PROPERTY LINE
EX. RIGHT-OF-WAY LINES
EX. LOT LINES
EX. TREELINE
EX. PAVED ROAD
EX. GRAVEL ROAD
EX. OVERHEAD POWER LINE (POH)
EX. CULVERT (STO)
EX. 5' INDEX CONTOUR (900)
EX. 1' INTERVAL CONTOUR
EX. FIELD DELINEATED WETLAND
EX. FEMA FLOOD ZONE
EX. BUILDING

KEY MAP:





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Minneapolis, MN, 55403

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USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Existing Conditions

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

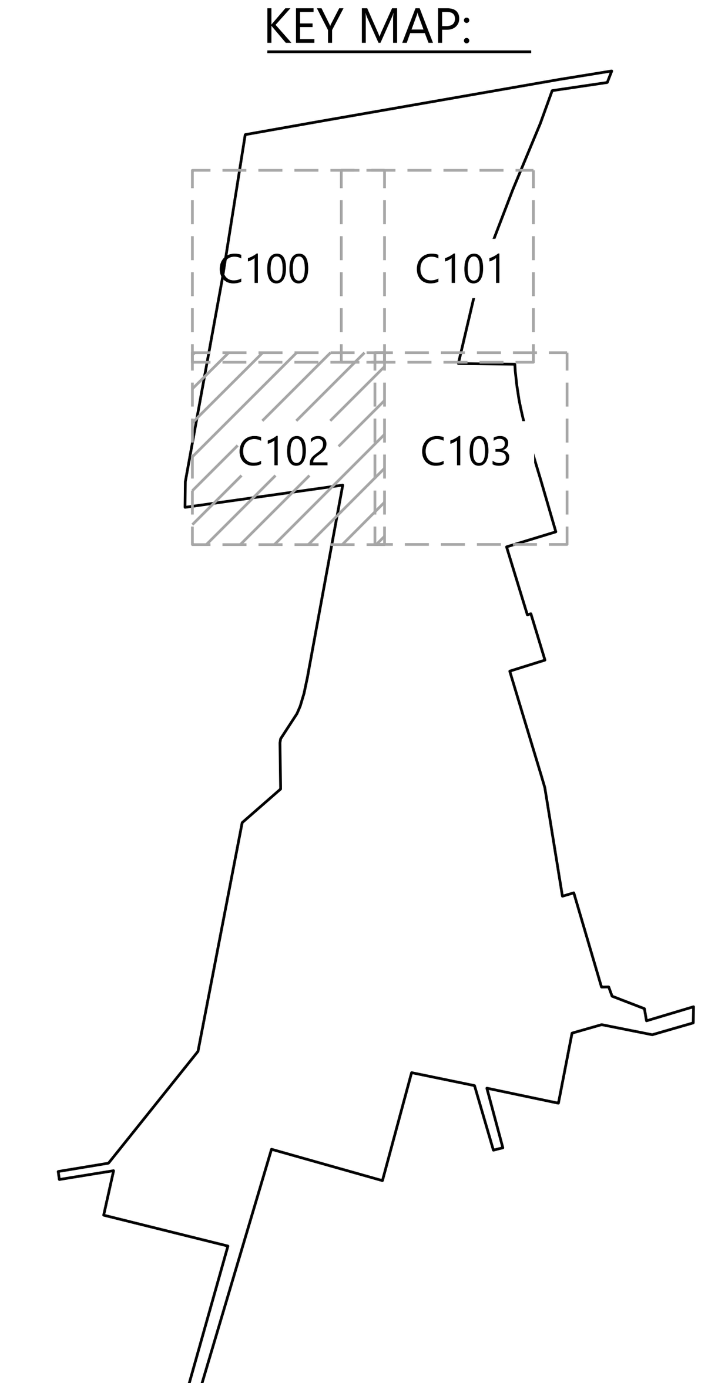
DATE: 11/01/2023

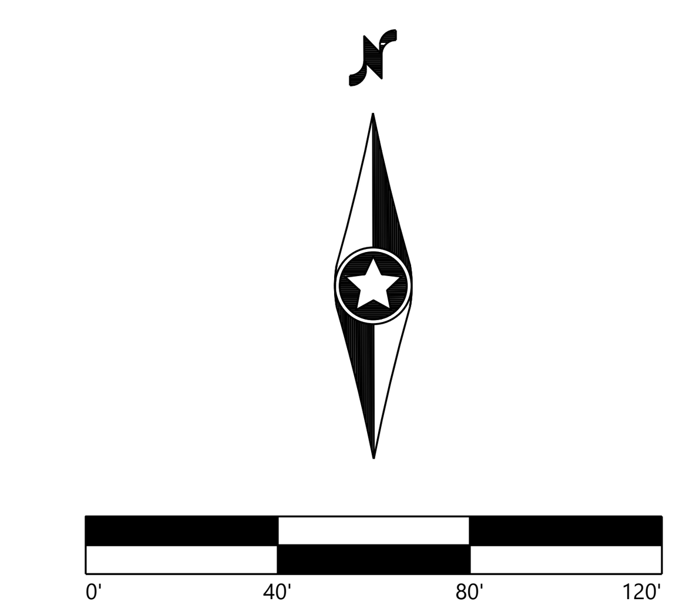
SHEET: C101

LEGEND

	PROPERTY LINE
	EX. RIGHT-OF-WAY LINES
	EX. LOT LINES
	EX. TREELINE
	EX. PAVED ROAD
	EX. GRAVEL ROAD
POH	EX. OVERHEAD POWER LINE
STO	EX. CULVERT
900	EX. 5' INDEX CONTOUR
	EX. 1' INTERVAL CONTOUR
	EX. FIELD DELINEATED WETLAND
	EX. FEMA FLOOD ZONE
	EX. BUILDING

KEY MAP:





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Minneapolis, MN, 55403

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E	11/01/23	Issued for CSC Petition

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Existing Conditions

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C102

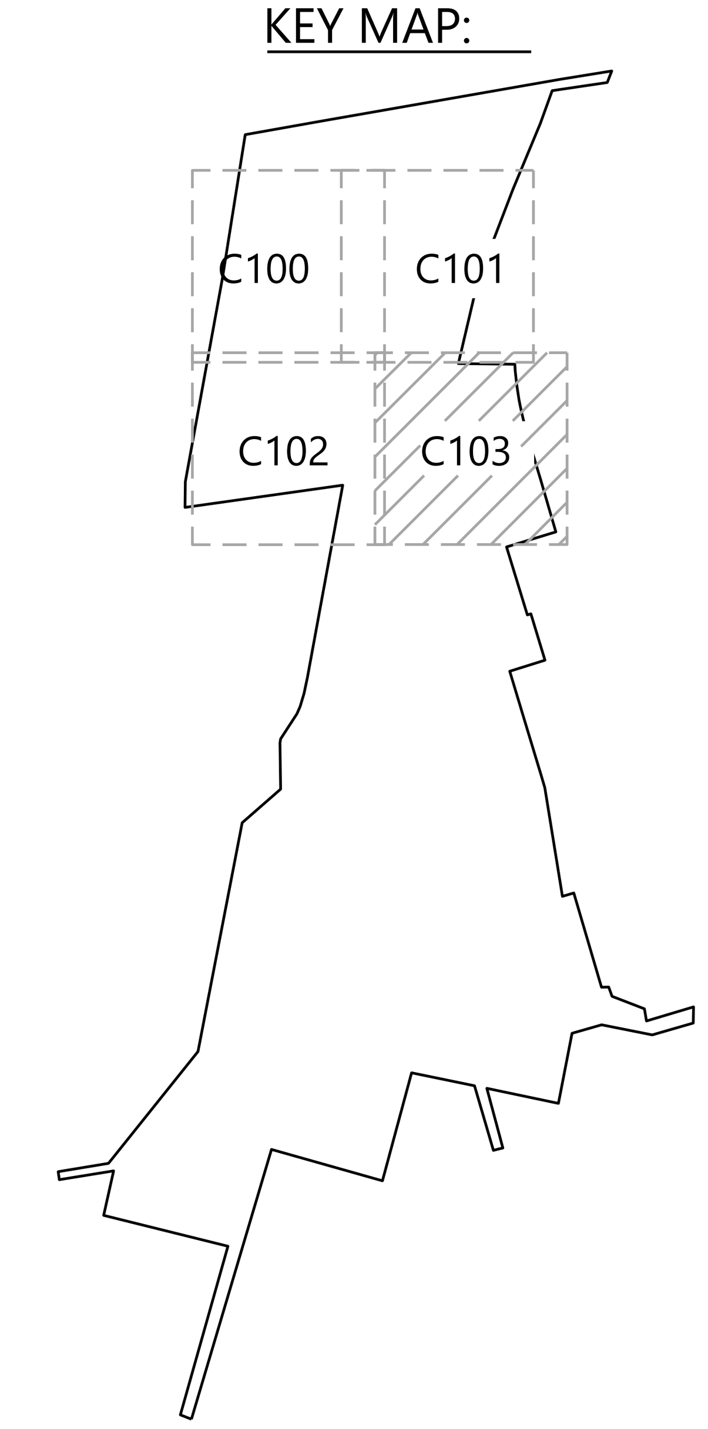
SEE SHEET C101

SEE SHEET C102

LEGEND

- PROPERTY LINE
- EX. RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE (POH)
- EX. CULVERT (STO)
- EX. 5' INDEX CONTOUR (900)
- EX. 1' INTERVAL CONTOUR
- EX. FIELD DELINEATED WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING

KEY MAP:



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Minneapolis, MN, 55403

REVISIONS:

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D	07/28/23	Issued for CSC Petition
E	11/01/23	Issued for CSC Petition

N

0' 40' 80' 120'

USS Somers Solar LLC

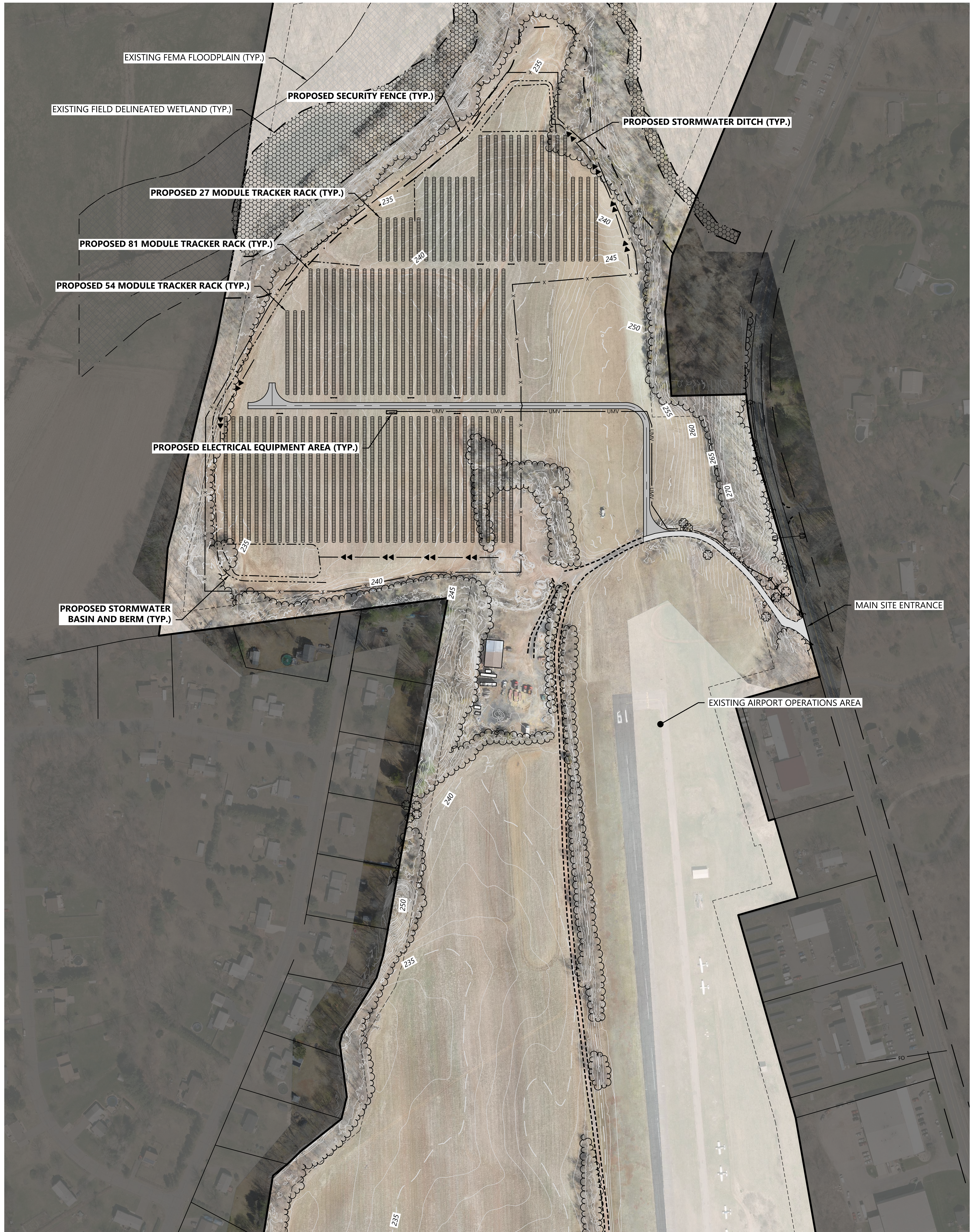
Tolland County, Town of Ellington, CT

Existing Conditions

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C103



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR**
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- WETLAND SETBACK LINE
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**

SYSTEM SPECIFICATIONS	
SYSTEM SIZE DC	4,012.8 kW
SYSTEM SIZE AC	2,997 kW
DC/AC RATIO	1.339
MODULE RATING	570 W
TOTAL MODULE QTY	7074
TOTAL NO. 27-MODULE TRACKER RACKS	6
TOTAL NO. 54-MODULE TRACKER RACKS	14
TOTAL NO. 81-MODULE TRACKER RACKS	76
TOTAL NO. INVERTERS	18
INTER-ROW SPACING	11.2'
PITCH	18.7'
GCR	40.0%
FENCED AREA	17.5 ACRES
DISTURBANCE LIMITS AREA	19.5 ACRES

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0' 150' 300' 450'

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Overall Site Plan

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

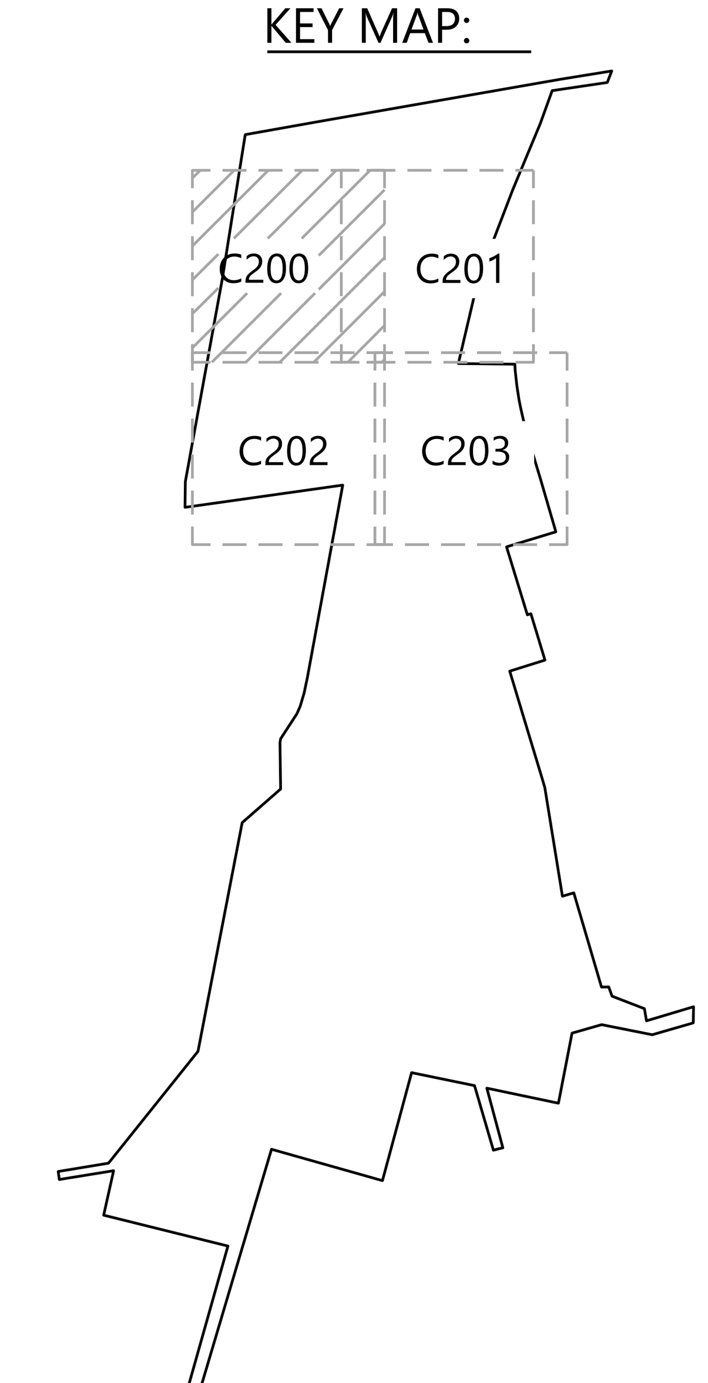
SHEET: C106

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR**
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- WETLAND SETBACK LINE
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**
- **PROPOSED TREE CLEARING**

STRUCTURAL SETBACKS		
	TOWN ORDINANCE SETBACK	PROVIDED
SIDE YARD	50'	437'
REAR YARD	50'	78'
FRONT YARD	100'	178'

KEY MAP:



0' 40' 80' 120'

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Minneapolis, MN, 55403

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USS Somers Solar LLC

Tolland County, Town of Ellington, CT

PV Site Plan

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

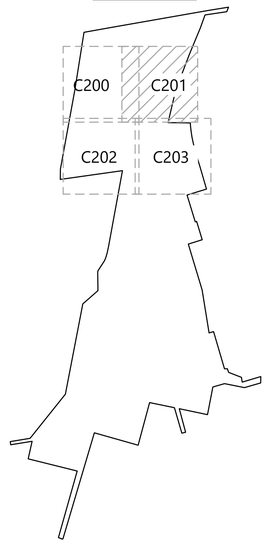
SHEET: C200

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR**
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- WETLAND SETBACK LINE
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**
- **PROPOSED TREE CLEARING**

STRUCTURAL SETBACKS		
	TOWN ORDINANCE SETBACK	PROVIDED
SIDE YARD	50'	437'
REAR YARD	50'	78'
FRONT YARD	100'	178'

KEY MAP:



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0' 40' 80' 120'

USS Somers Solar LLC

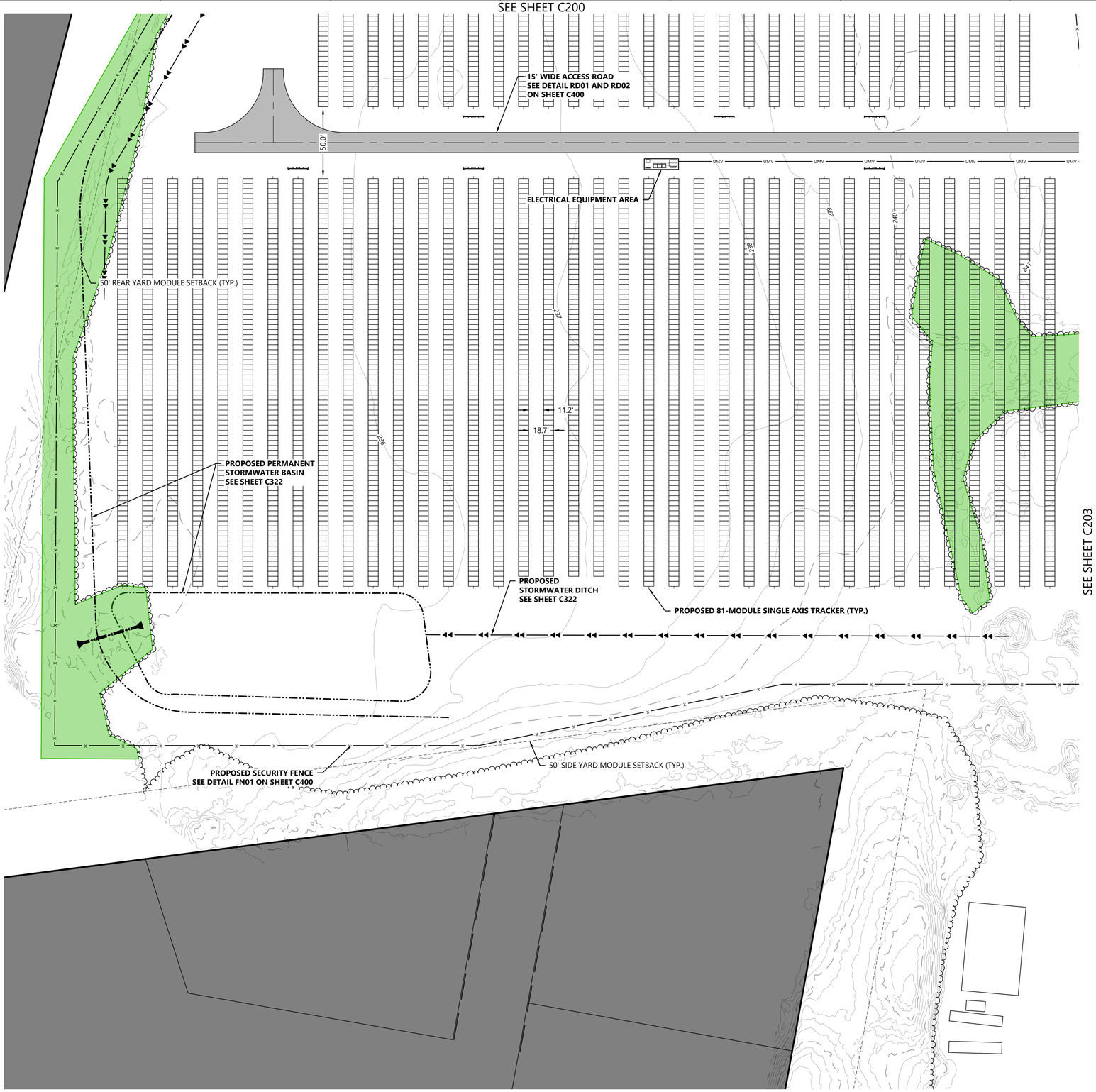
Tolland County, Town of Ellington, CT

PV Site Plan

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C201



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
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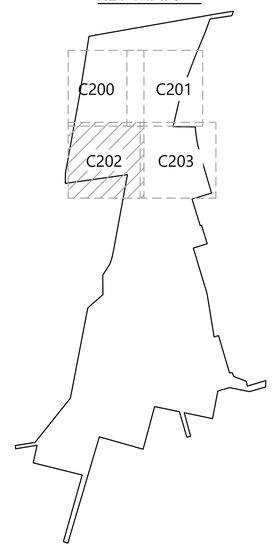
- **PROPOSED TREE CLEARING**

STRUCTURAL SETBACKS		
	TOWN ORDINANCE SETBACK	PROVIDED
SIDE YARD	50'	437'
REAR YARD	50'	78'
FRONT YARD	100'	178'

KEY MAP:



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0' 40' 80' 120'

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

PV Site Plan

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C202

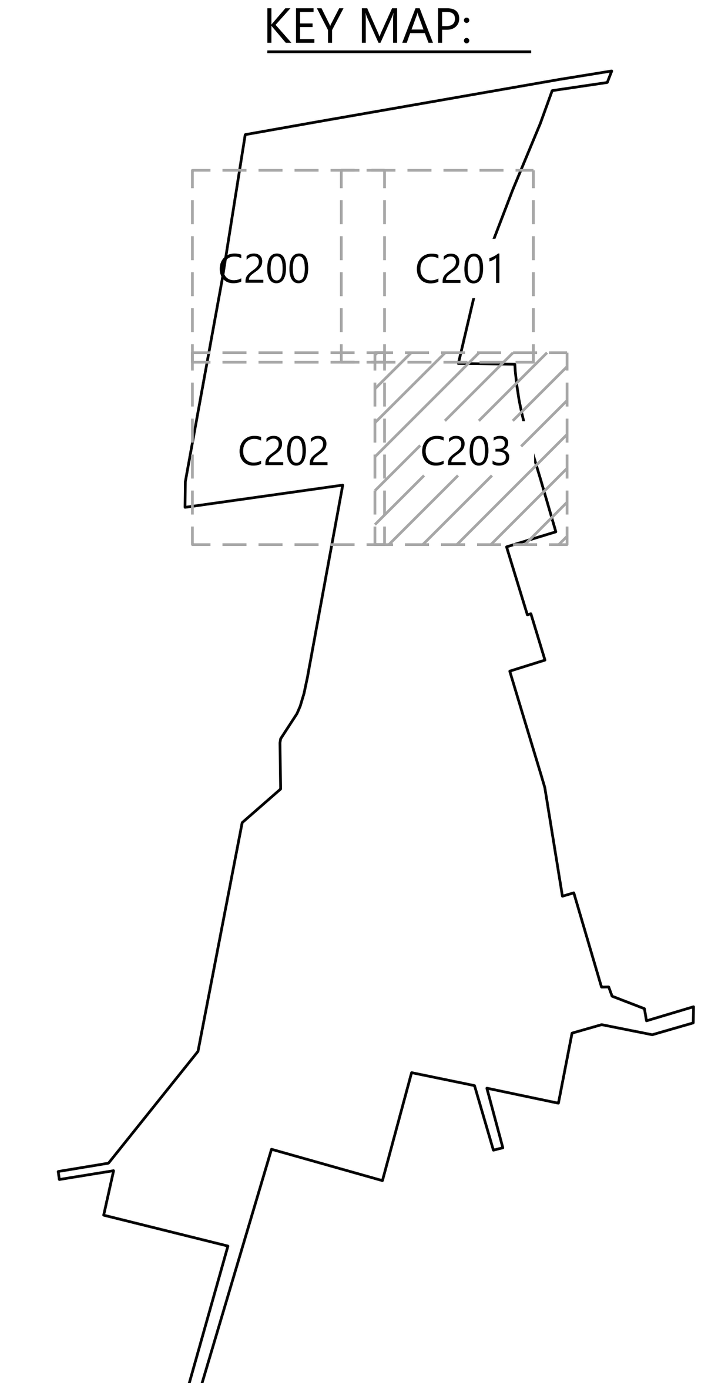
LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR**
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- WETLAND SETBACK LINE
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**
- **PROPOSED TREE CLEARING**

STRUCTURAL SETBACKS

	TOWN ORDINANCE SETBACK	PROVIDED
SIDE YARD	50'	437'
REAR YARD	50'	78'
FRONT YARD	100'	178'

KEY MAP:



0' 40' 80' 120'

Westwood
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Westwood Surveying and Engineering, P.C.

PREPARED FOR:

US SOLAR
100 N 6th St. #410B
Minneapolis, MN, 55403

REVISIONS:

#	DATE	COMMENT
A	11/18/22	Issued for CSC Petition
B	03/20/23	Issued for CSC Petition
C	05/17/23	Issued for CSC Petition
D	07/28/23	Issued for CSC Petition
E	11/01/23	Issued for CSC Petition

USS Somers Solar LLC

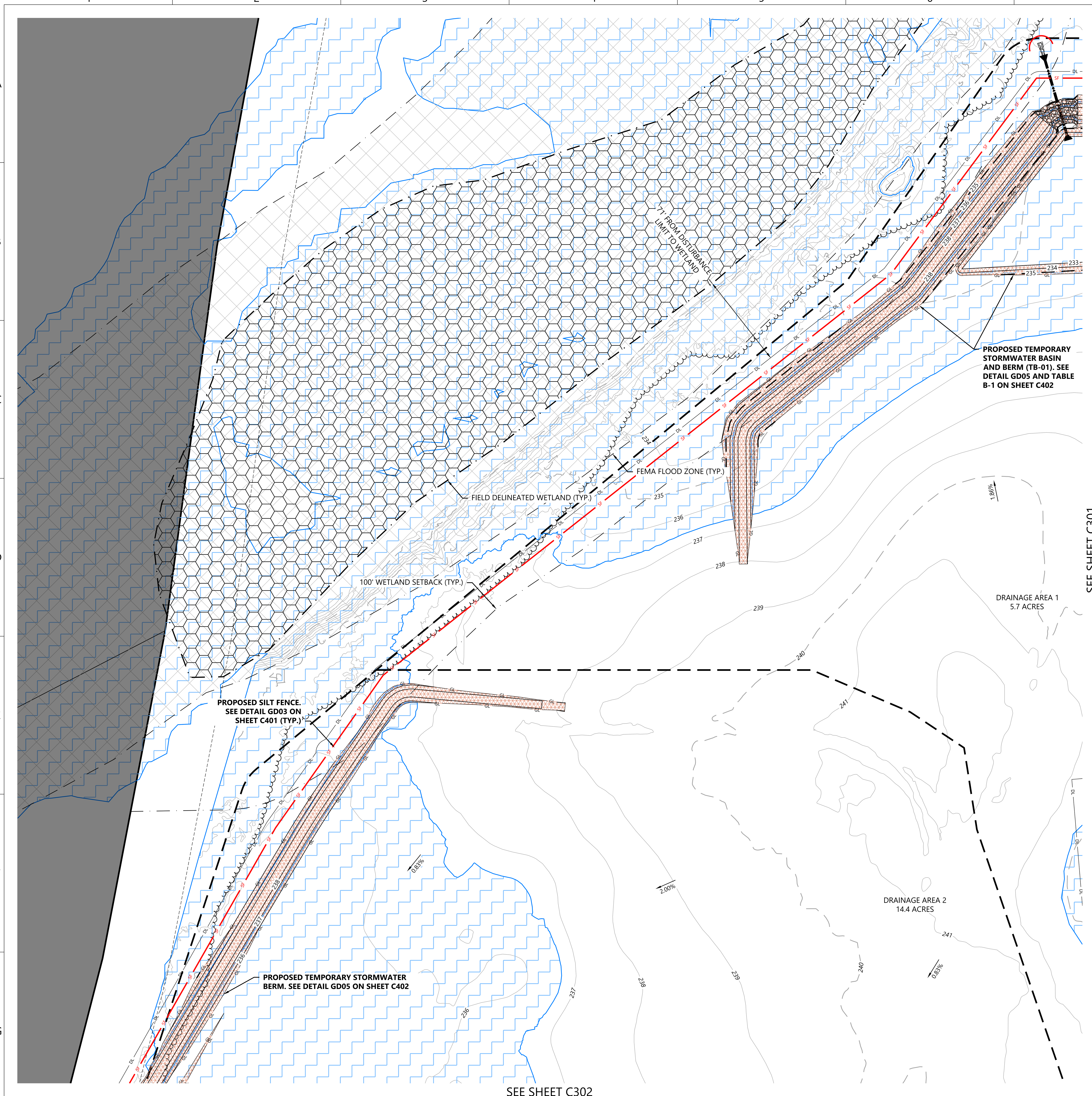
Tolland County, Town of Ellington, CT

PV Site Plan

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C203



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
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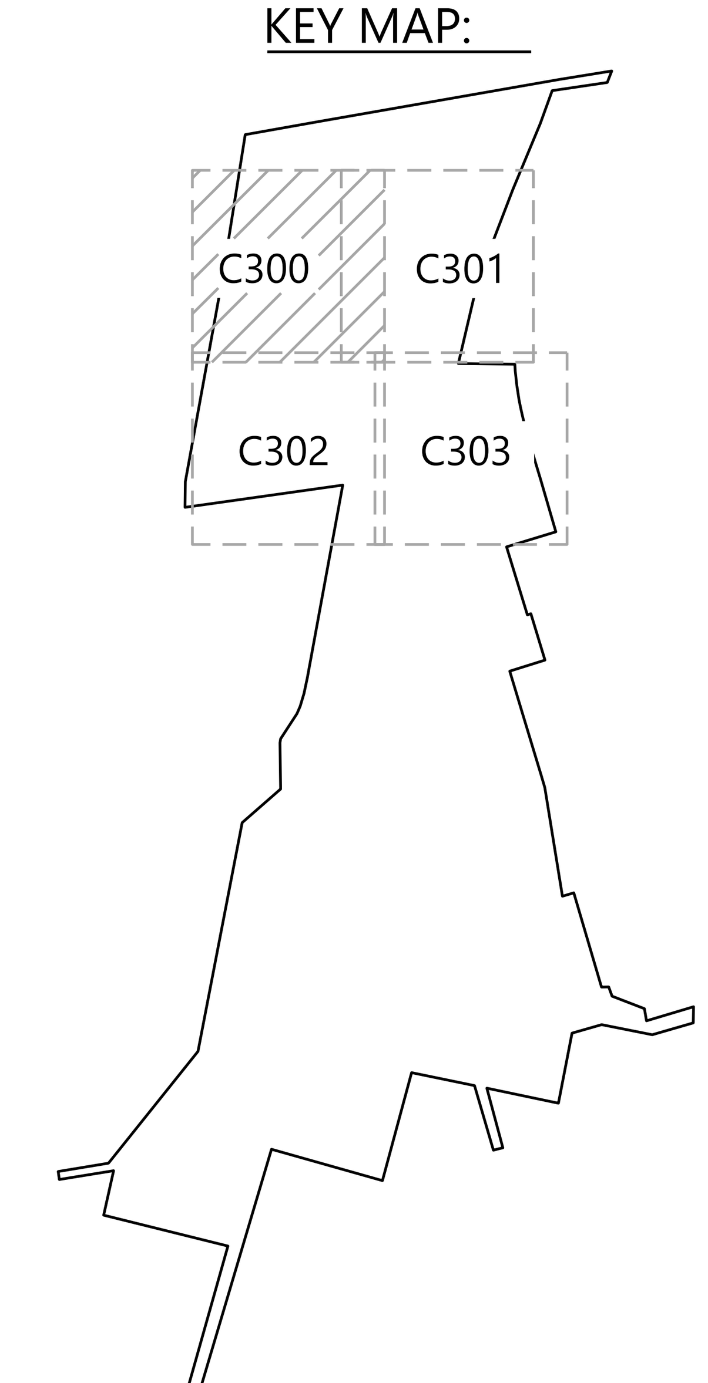
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- HIGH WATER AREA (>0.5' FLOODING)
- WETLAND SETBACK LINE
- **PROPOSED 5' INDEX CONTOUR**
- **PROPOSED 1' INTERVAL CONTOUR**
- **PROPOSED GRADING BOUNDARY**
- **PROPOSED DISTURBANCE LIMITS**
- EX. GROUND SLOPE
- **PROPOSED SILT FENCE**
- WETLAND SETBACK LINE
- DRAINAGE AREA BOUNDARY
- **PROPOSED EROSION CONTROL BLANKET**
- **PROPOSED RIP RAP**
- **PROPOSED CULVERT**

NOTES:
1. ALL PERIMETER SEDIMENT CONTROLS WILL NEED TO BE INSTALLED PRIOR TO GROUND DISTURBANCE
2. SEE SHEET SERIES C.4XX FOR DETAILS AND SPECIFICATIONS FOR CONSTRUCTION
3. SECURITY FENCE LOCATION TO BE STAKED PRIOR TO INSTALLATION OF SILT FENCE TO PREVENT DAMAGE TO AND REWORK OF BMP CONTROLS
4. PROJECT NOI AND NPDES PERMIT TO BE POSTED WITHIN VIEW OF PUBLIC ROW PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES

GRADING QUANTITIES

	CUT (CY)	FILL (CY)
TEMP BASIN 01	1321	0
TEMP BERM 01	0	906
NORTH SWALE	42	0
TEMP BASIN 02	1182	0
TEMP BERM 02	5	1102
SOUTH SWALE	308	0
WEST SWALE	27	0
TOTAL	2885	2008

KEY MAP:



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Westwood Surveying and Engineering, P.C.

PREPARED FOR:

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100 N 6th St. #410B
Minneapolis, MN, 55403

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USS Somers Solar LLC

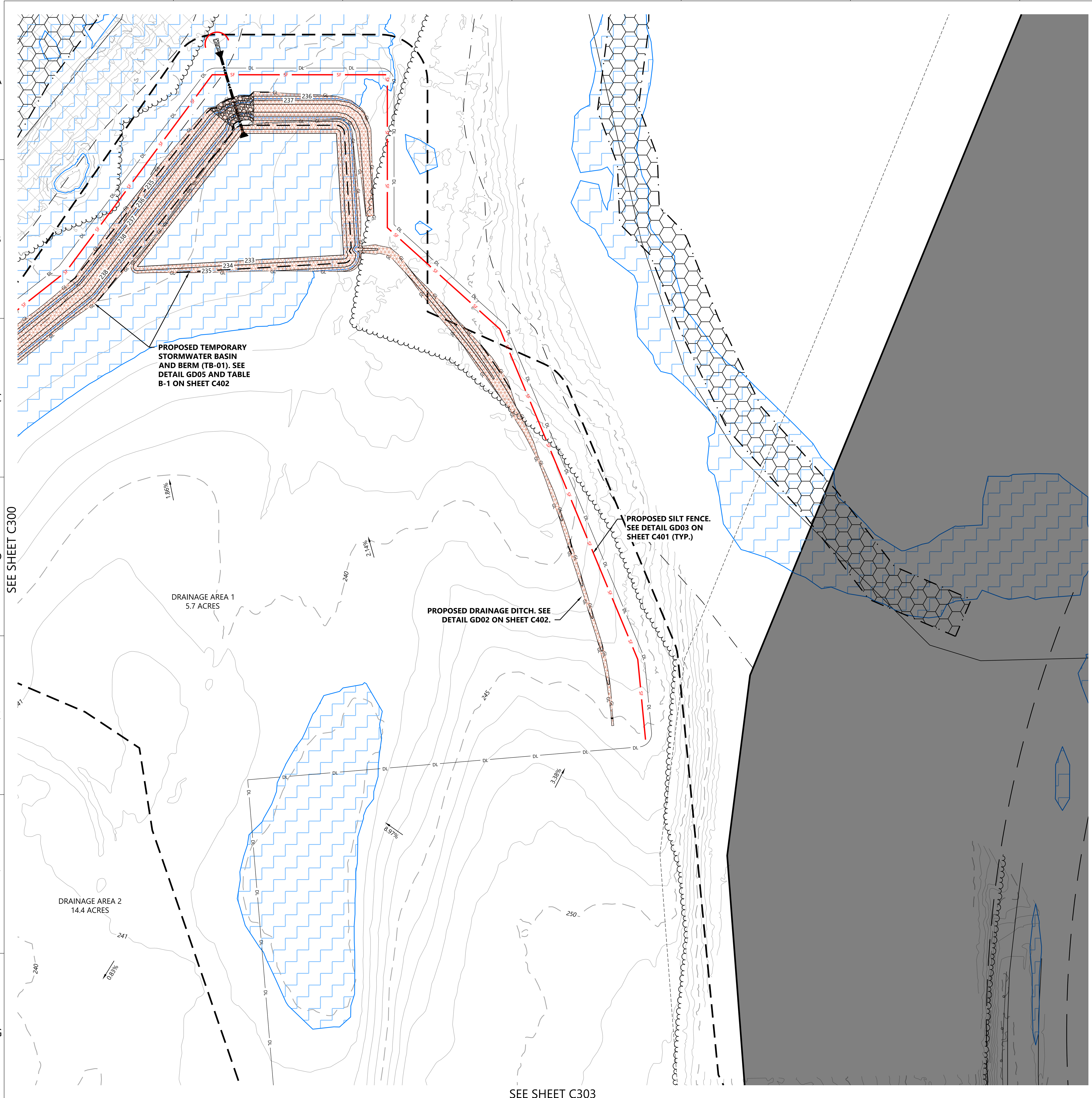
Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 1

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C300



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
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- **PROPOSED DISTURBANCE LIMITS**
- EX. GROUND SLOPE
- **PROPOSED SILT FENCE**
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- **PROPOSED EROSION CONTROL BLANKET**
- **PROPOSED RIP RAP**
- **PROPOSED CULVERT**

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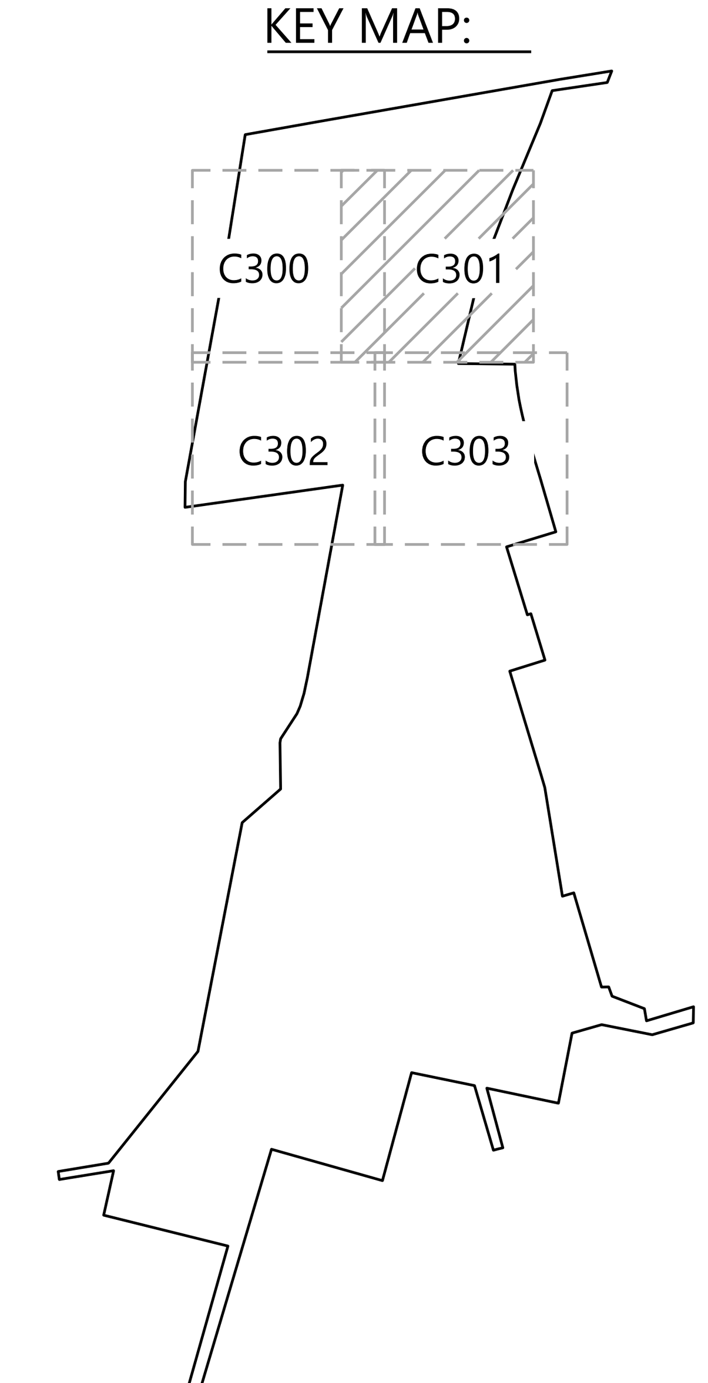
GRADING QUANTITIES

	CUT (CY)	FILL (CY)
TEMP BASIN 01	1321	0
TEMP BERM 01	0	906
NORTH SWALE	42	0
TEMP BASIN 02	1182	0
TEMP BERM 02	5	1102
SOUTH SWALE	308	0
WEST SWALE	27	0
TOTAL	2885	2008

KEY MAP:



0' 40' 80' 120'

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Minneapolis, MN, 55403

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USS Somers Solar LLC

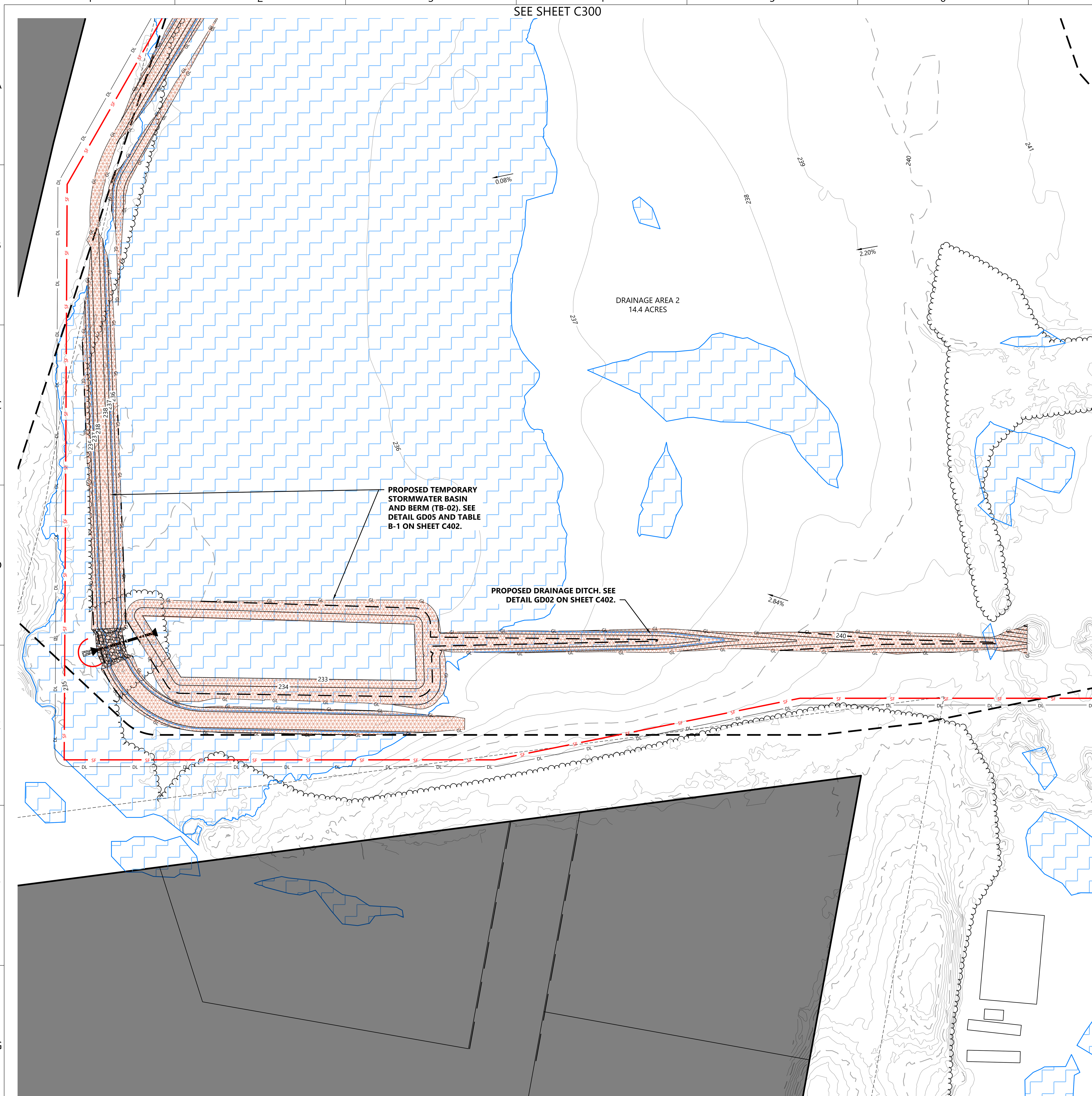
Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 1

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C301



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
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- HIGH WATER AREA (>0.5' FLOODING)
- WETLAND SETBACK LINE
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- **PROPOSED DISTURBANCE LIMITS**
- EX. GROUND SLOPE
- **PROPOSED SILT FENCE**
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- **PROPOSED RIP RAP**
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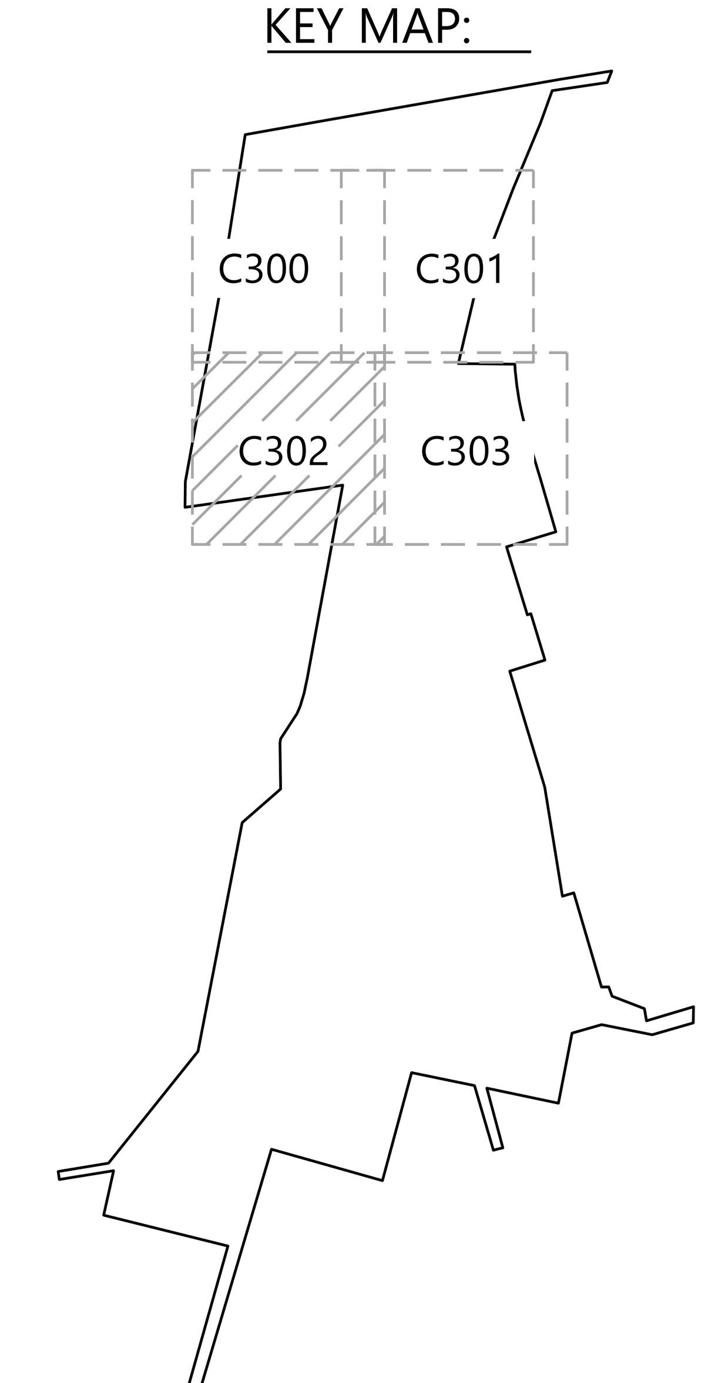
GRADING QUANTITIES		
	CUT (CY)	FILL (CY)
TEMP BASIN 01	1321	0
TEMP BERM 01	0	906
NORTH SWALE	42	0
TEMP BASIN 02	1182	0
TEMP BERM 02	5	1102
SOUTH SWALE	308	0
WEST SWALE	27	0
TOTAL	2885	2008

KEY MAP:



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Minneapolis, MN, 55403

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D	07/28/23	Issued for CSC Petition
E	11/01/23	Issued for CSC Petition

0' 40' 80' 120'

USS Somers Solar LLC

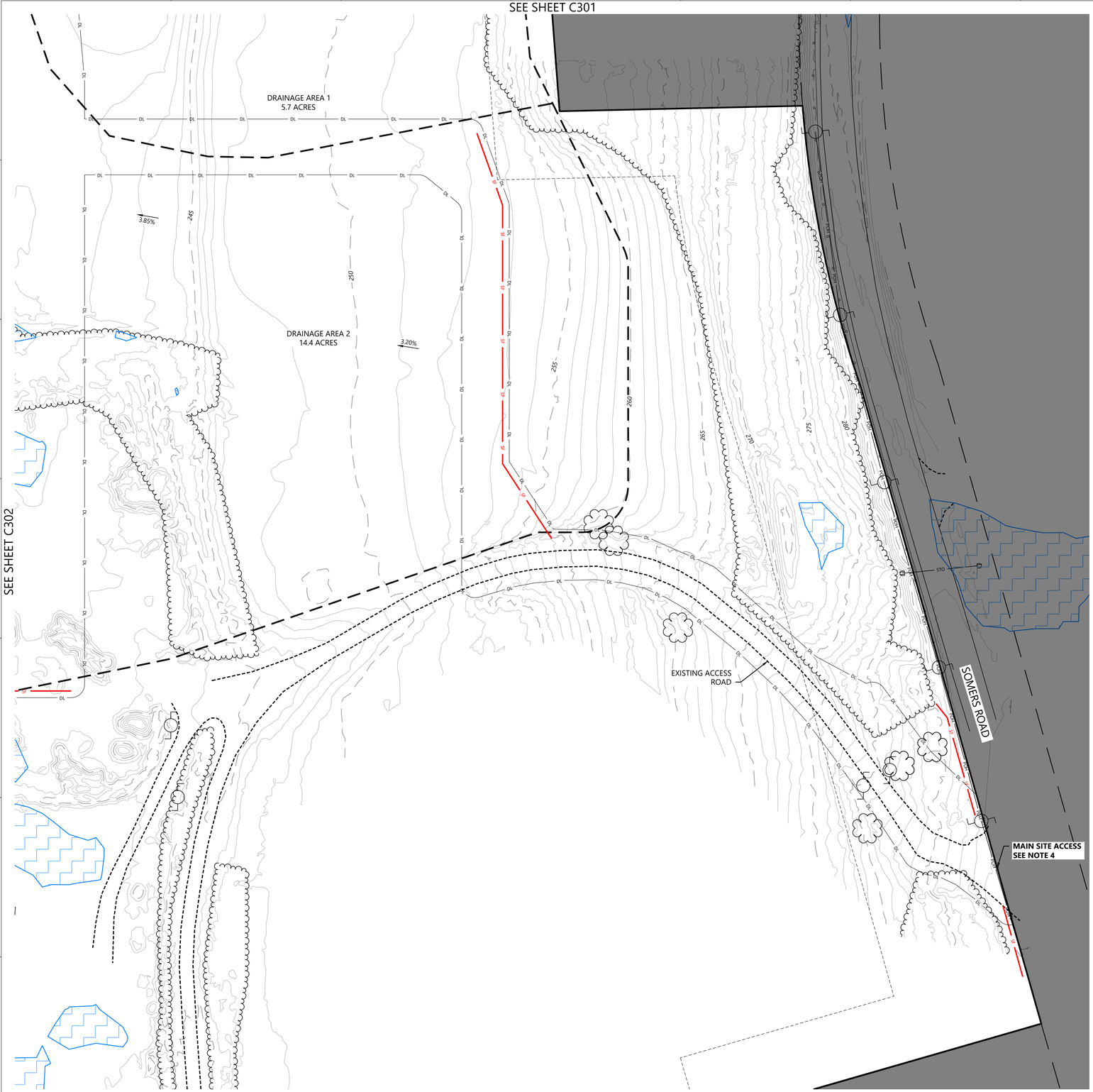
Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 1

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C302



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR**
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- HIGH WATER AREA (>0.5' FLOODING)
- WETLAND SETBACK LINE
- **PROPOSED 5' INDEX CONTOUR**
- **PROPOSED 1' INTERVAL CONTOUR**
- **PROPOSED GRADING BOUNDARY**
- **PROPOSED DISTURBANCE LIMITS**
- EX. GROUND SLOPE
- **PROPOSED SILT FENCE**
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- DRAINAGE AREA BOUNDARY
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GRADING QUANTITIES		
	CUT (CY)	FILL (CY)
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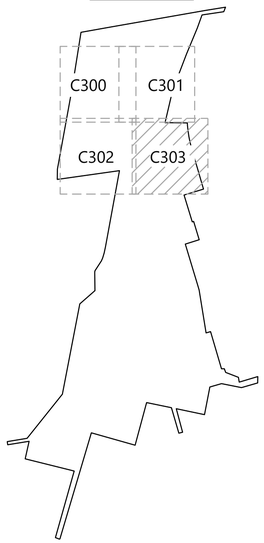
TEMP BERM 01	0	906
NORTH SWALE	42	0
TEMP BASIN 02	1182	0
TEMP BERM 02	5	1102
SOUTH SWALE	308	0
WEST SWALE	27	0
TOTAL	2885	2008

KEY MAP:



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US SOLAR

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Minneapolis, MN, 55403

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0' 40' 80' 120'

USS Somers Solar LLC

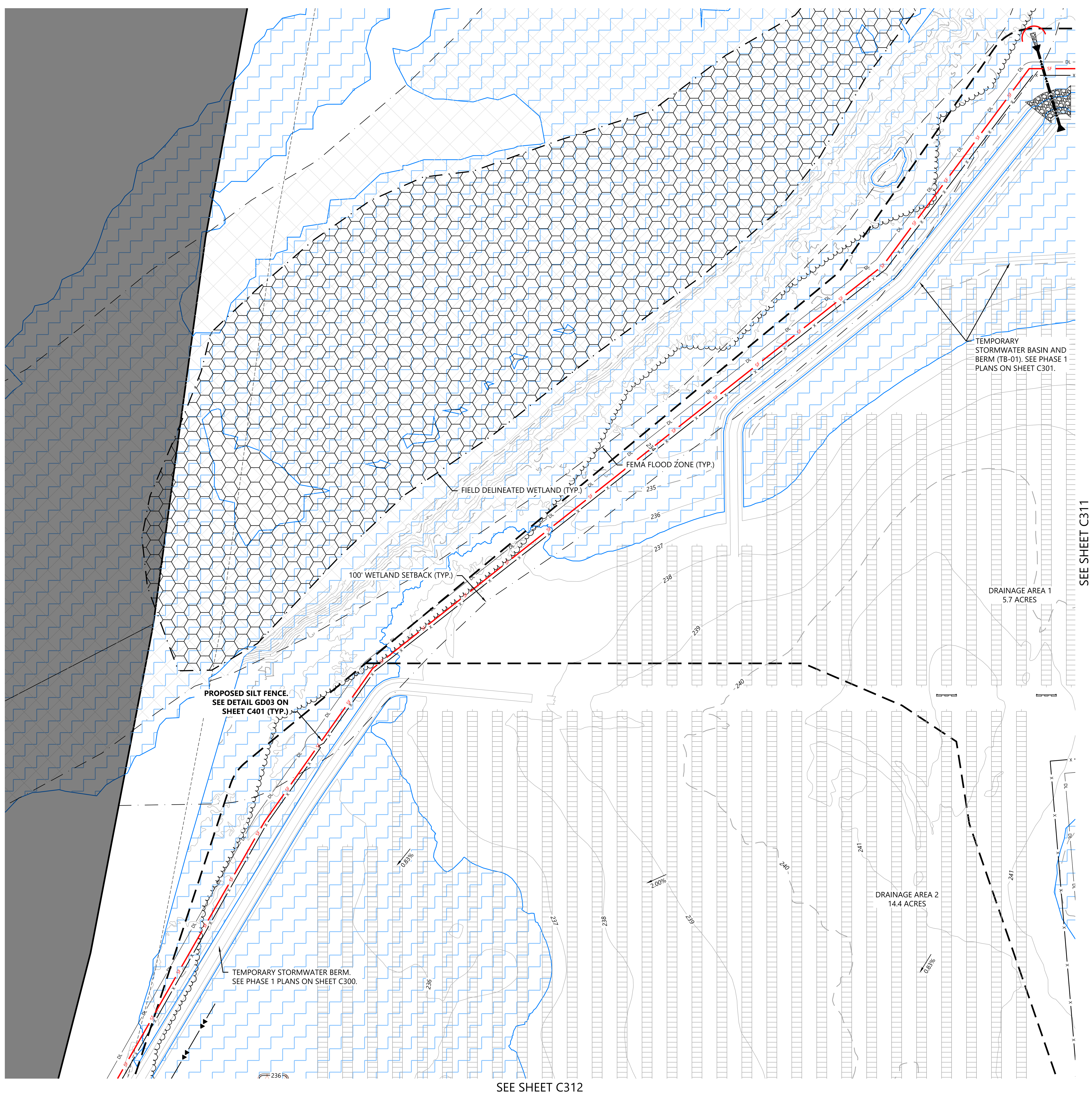
Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 1

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C303



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
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- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**
- PROPOSED SILT FENCE
- HIGH WATER AREA (>0.5' FLOODING)
- WETLAND SETBACK LINE
- **PROPOSED 5' INDEX CONTOUR**
- **PROPOSED 1' INTERVAL CONTOUR**
- **PROPOSED GRADING BOUNDARY**
- **PROPOSED DISTURBANCE LIMITS**
- DRAINAGE AREA BOUNDARY
- PROPOSED CONSTRUCTION ENTRANCE
- **PROPOSED EROSION CONTROL BLANKET**
- **PROPOSED RIP RAP**
- PROPOSED CULVERT

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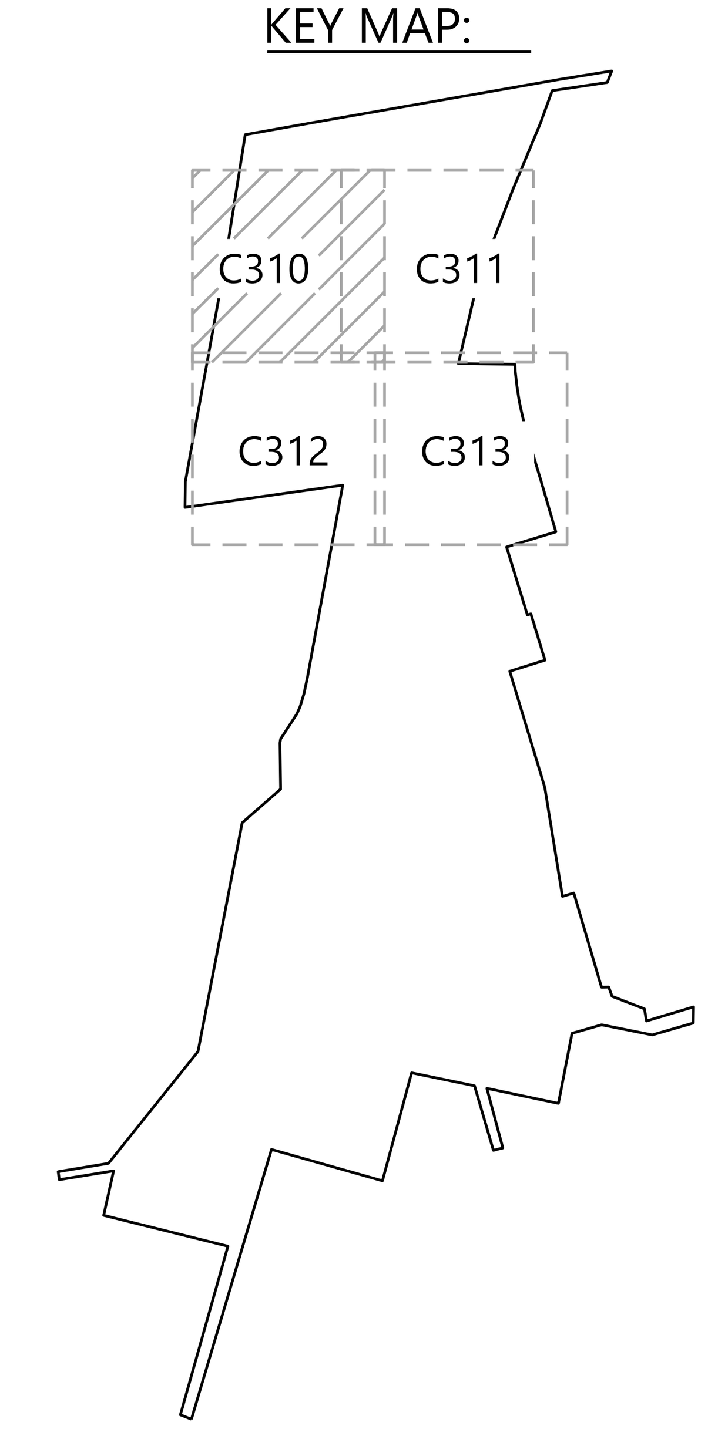
GRADING QUANTITIES		
	CUT (CY)	FILL (CY)
ACCESS ROAD	48	332
INVERTER PAD	0	7
TOTAL	48	339

KEY MAP:



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USS Somers Solar LLC

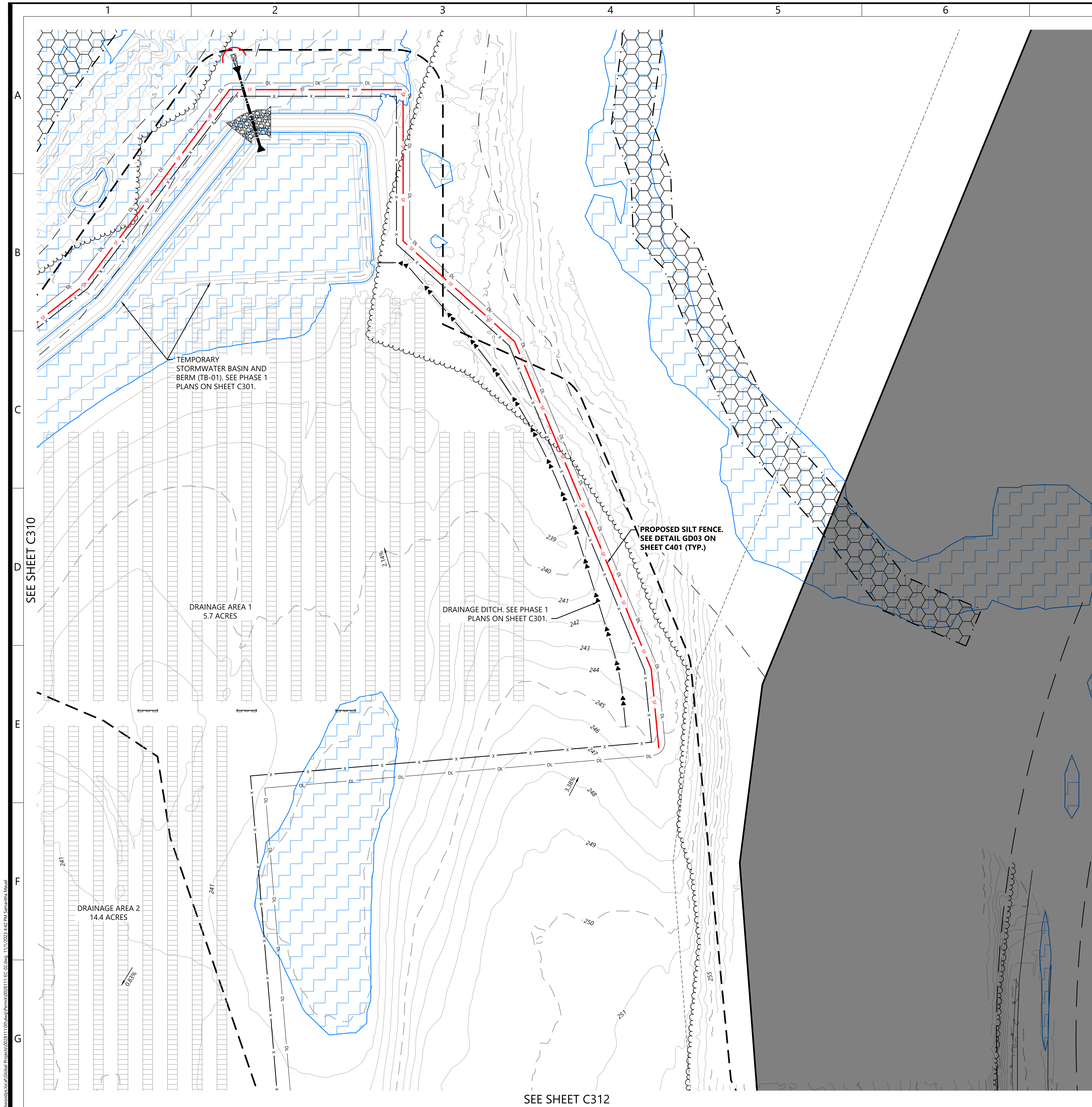
Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 2

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C310



SEE SHEET C310
SEE SHEET C312

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR**
- **PROPOSED OVERHEAD POWERLINE**
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE**
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**
- PROPOSED SILT FENCE
- HIGH WATER AREA (>0.5' FLOODING)
- WETLAND SETBACK LINE
- **PROPOSED 5' INDEX CONTOUR**
- **PROPOSED 1' INTERVAL CONTOUR**
- **PROPOSED GRADING BOUNDARY**
- **PROPOSED DISTURBANCE LIMITS**
- DRAINAGE AREA BOUNDARY
- PROPOSED CONSTRUCTION ENTRANCE
- **PROPOSED EROSION CONTROL BLANKET**
- **PROPOSED RIP RAP**
- PROPOSED CULVERT

NOTES:

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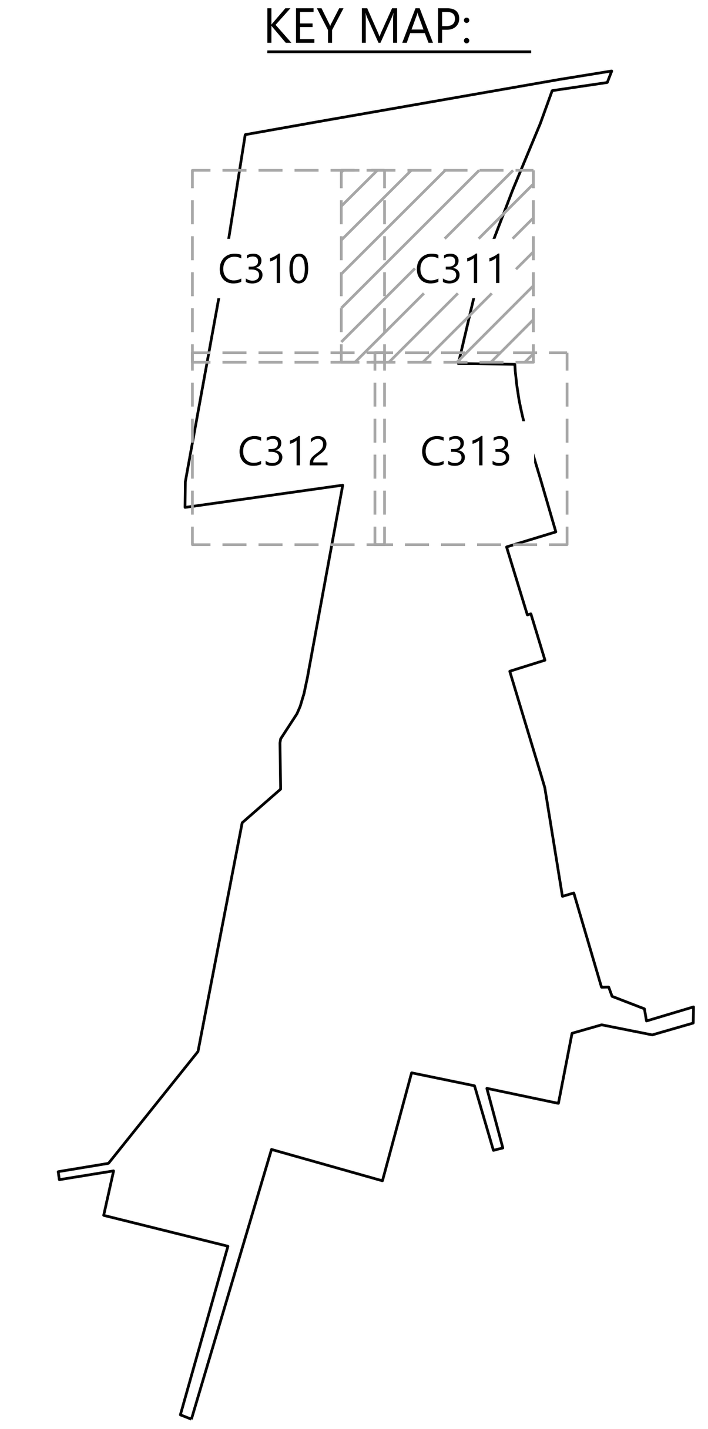
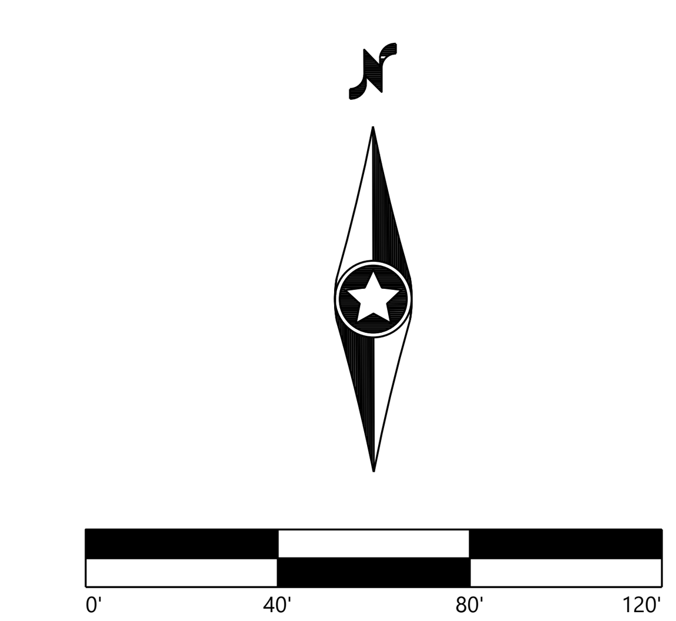
GRADING QUANTITIES		
	CUT (CY)	FILL (CY)
ACCESS ROAD	48	332
INVERTER PAD	0	7
TOTAL	48	339

KEY MAP:





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USS Somers Solar LLC

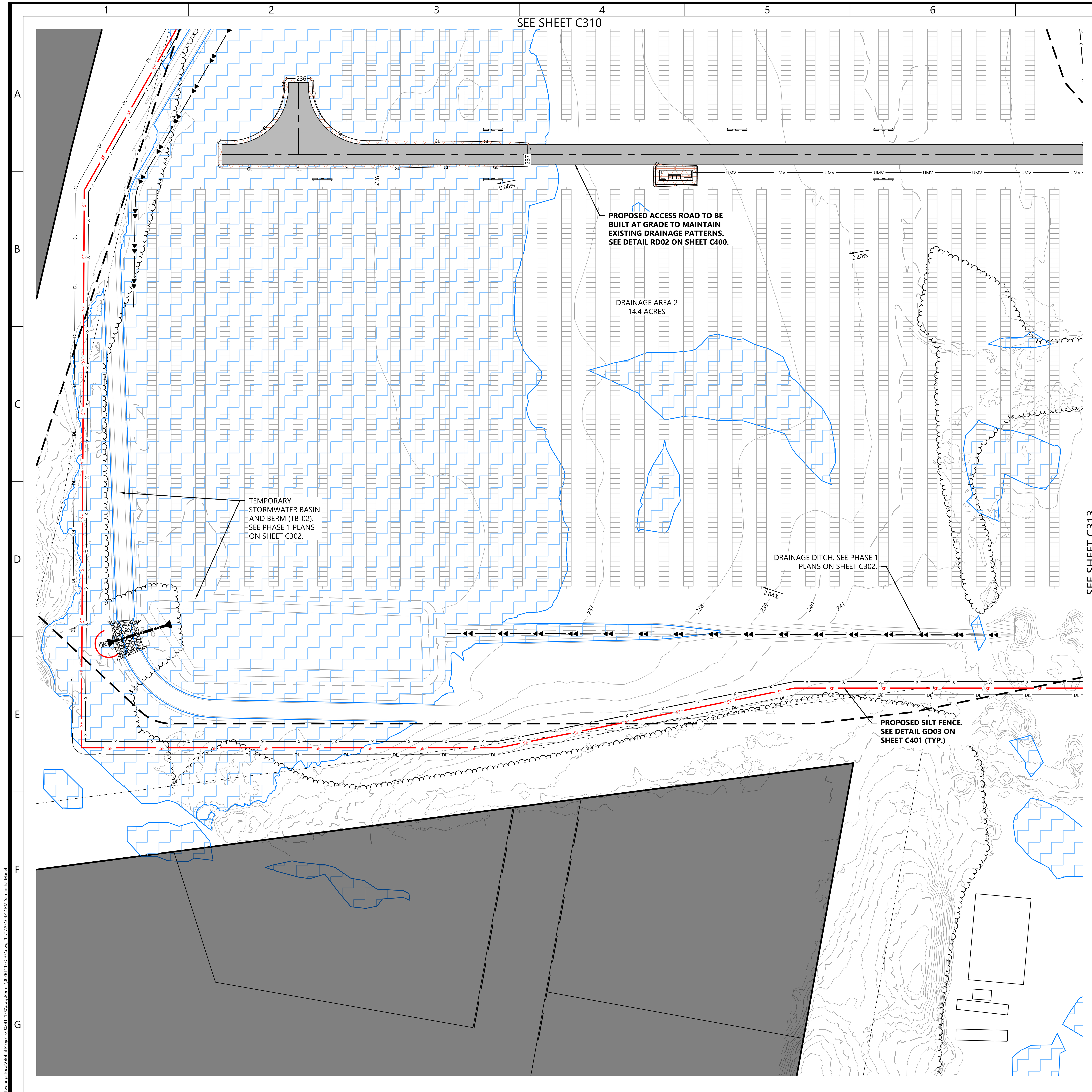
Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 2

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C311



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE (POH)
- EX. CULVERT (STO)
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POWER POLE**
- **PROPOSED UNDERGROUND COLLECTOR** (UMV)
- **PROPOSED OVERHEAD POWERLINE** (OMV)
- **PROPOSED ACCESS ROAD**
- **PROPOSED SECURITY FENCE** (X)
- **PROPOSED STORMWATER BASIN AND BERM**
- **PROPOSED STORMWATER DITCH**
- PROPOSED SILT FENCE (SF)
- HIGH WATER AREA (>0.5' FLOODING)
- WETLAND SETBACK LINE
- **PROPOSED 5' INDEX CONTOUR**
- **PROPOSED 1' INTERVAL CONTOUR**
- **PROPOSED GRADING BOUNDARY** (GL)
- **PROPOSED DISTURBANCE LIMITS** (DL)
- DRAINAGE AREA BOUNDARY
- PROPOSED CONSTRUCTION ENTRANCE
- **PROPOSED EROSION CONTROL BLANKET**
- **PROPOSED RIP RAP**
- PROPOSED CULVERT

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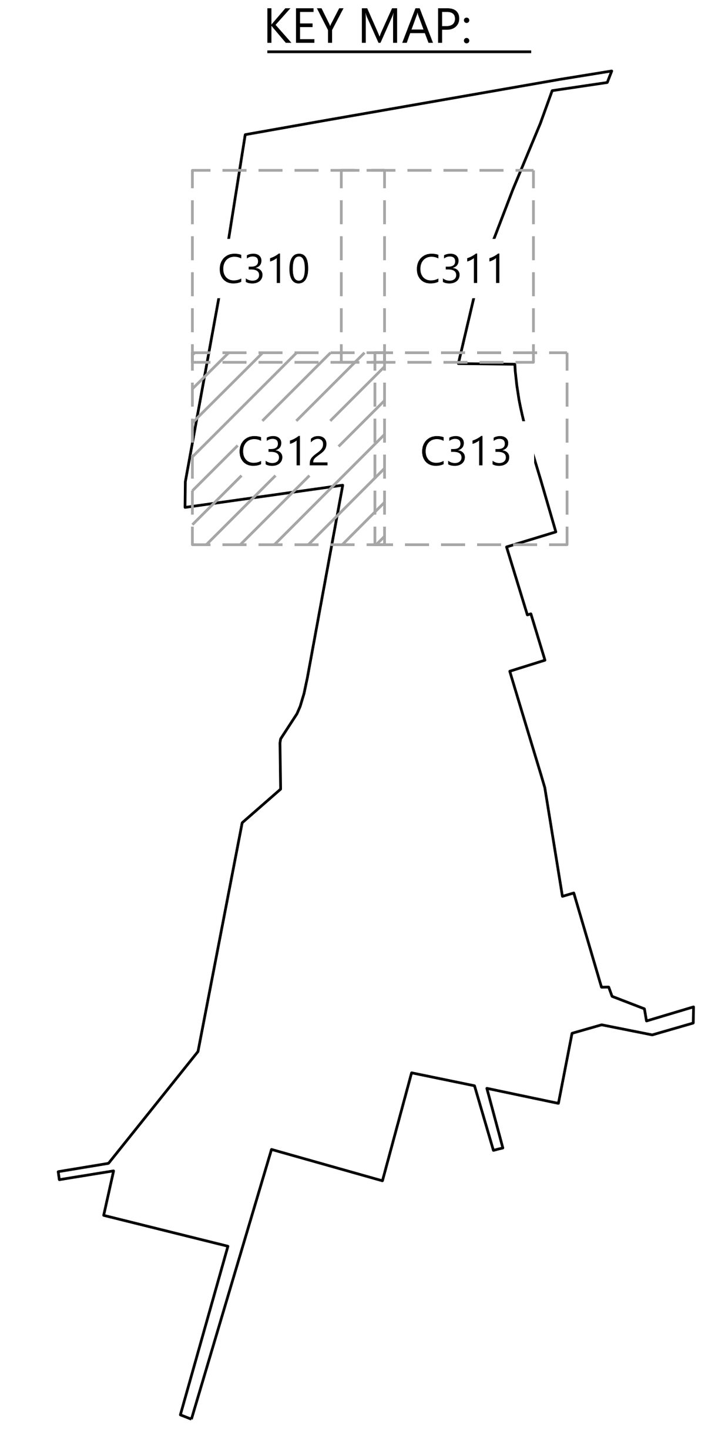
GRADING QUANTITIES

	CUT (CY)	FILL (CY)
ACCESS ROAD	48	332
INVERTER PAD	0	7
TOTAL	48	339

KEY MAP:



Westwood
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westwoodps.com
Westwood Surveying and Engineering, P.C.

PREPARED FOR:

US SOLAR
100 N 6th St. #410B
Minneapolis, MN, 55403

REVISIONS:

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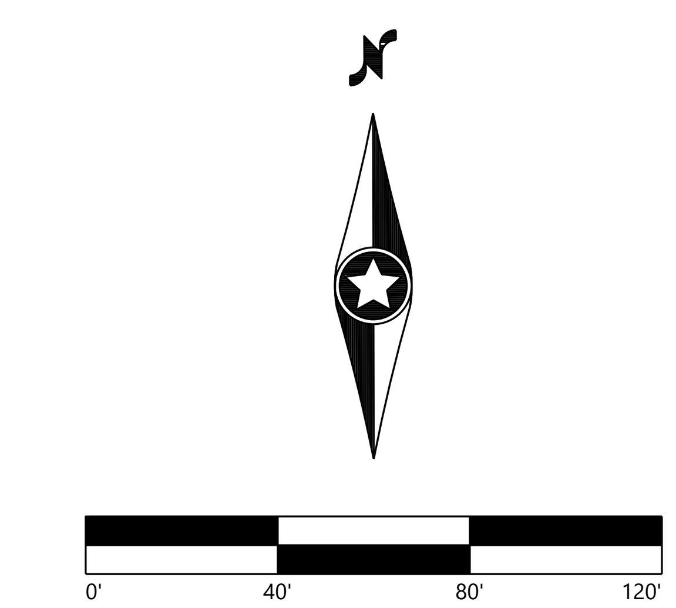

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 2

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C312

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. OVERHEAD POWER LINE
- EX. CULVERT
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. ACCESS ROAD
- EX. WETLAND
- EX. FEMA FLOOD ZONE
- EX. BUILDING
- YARD SETBACK LINE
- **PROPOSED SINGLE AXIS TRACKER**
- **PROPOSED SWITCHBOARD AND TRANSFORMER PAD**
- **PROPOSED UTILITY POLE**
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- **PROPOSED DISTURBANCE LIMITS**
- DRAINAGE AREA BOUNDARY
- PROPOSED CONSTRUCTION ENTRANCE
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- PROPOSED CULVERT

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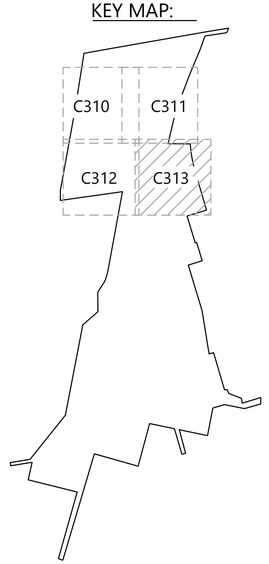

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0' 40' 80' 120'

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

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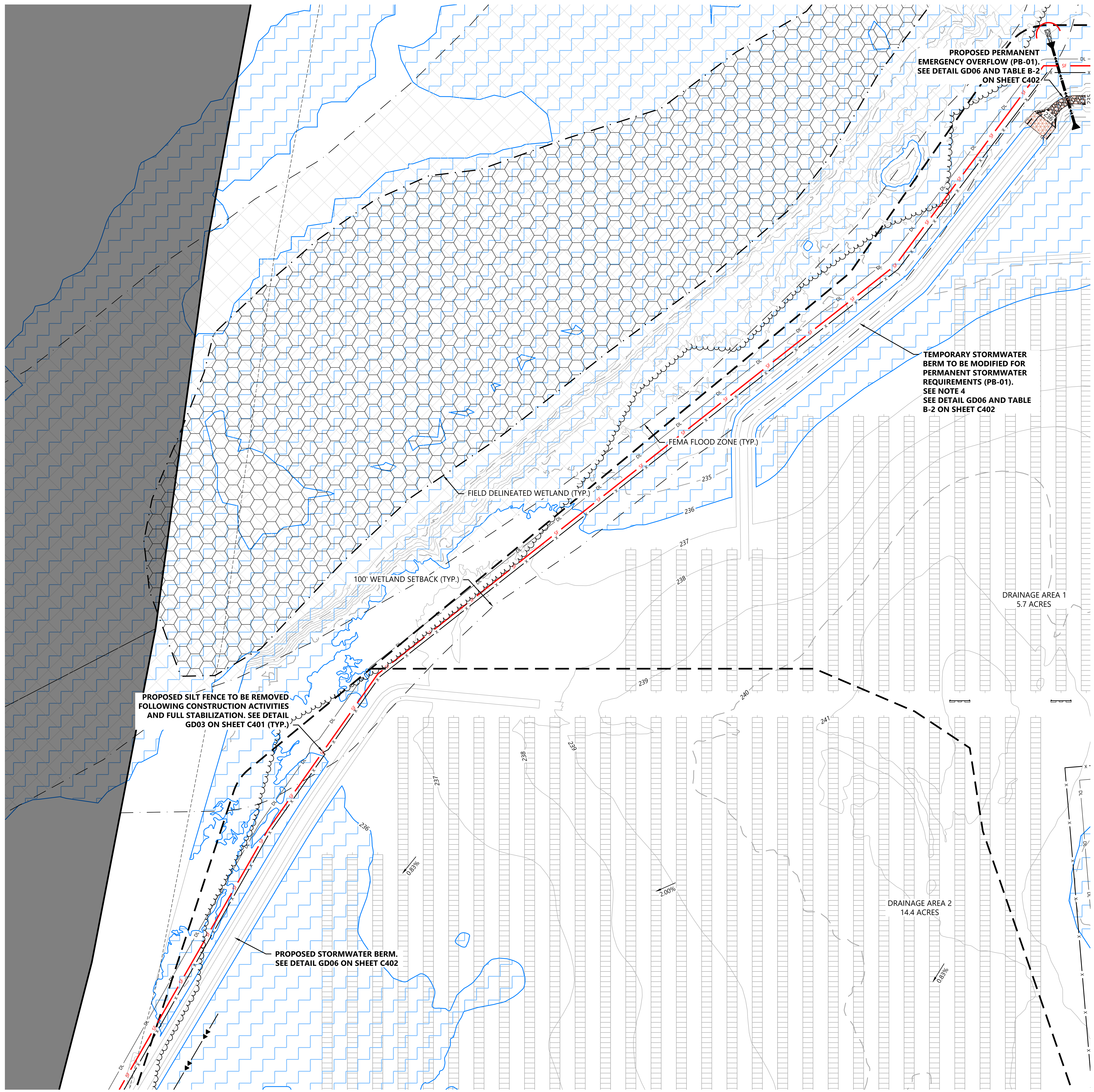
SHEET: C313



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EX. LOT LINES
- EX. TREELINE
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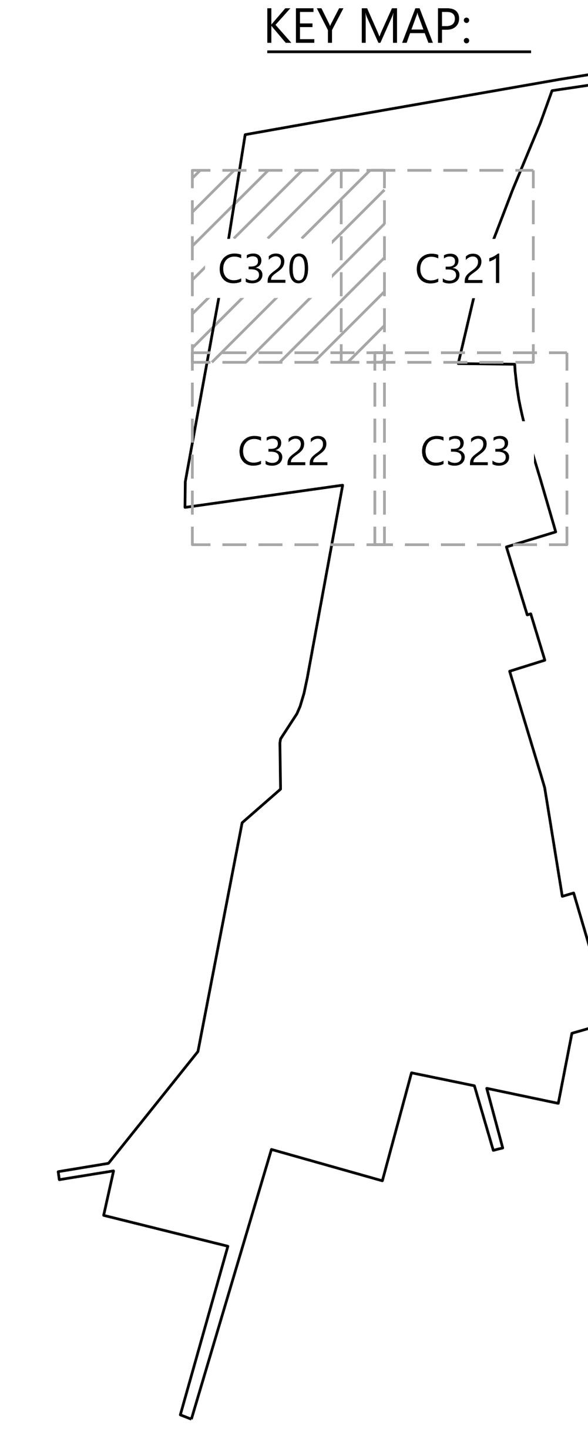
GRADING QUANTITIES

	CUT (CY)	FILL (CY)
PERM BERM 01	43	0
PERM BERM 02	16	0
TOTAL	59	0

KEY MAP:



0' 40' 80' 120'

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USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Sedimentation & Erosion Control Plan - Phase 3

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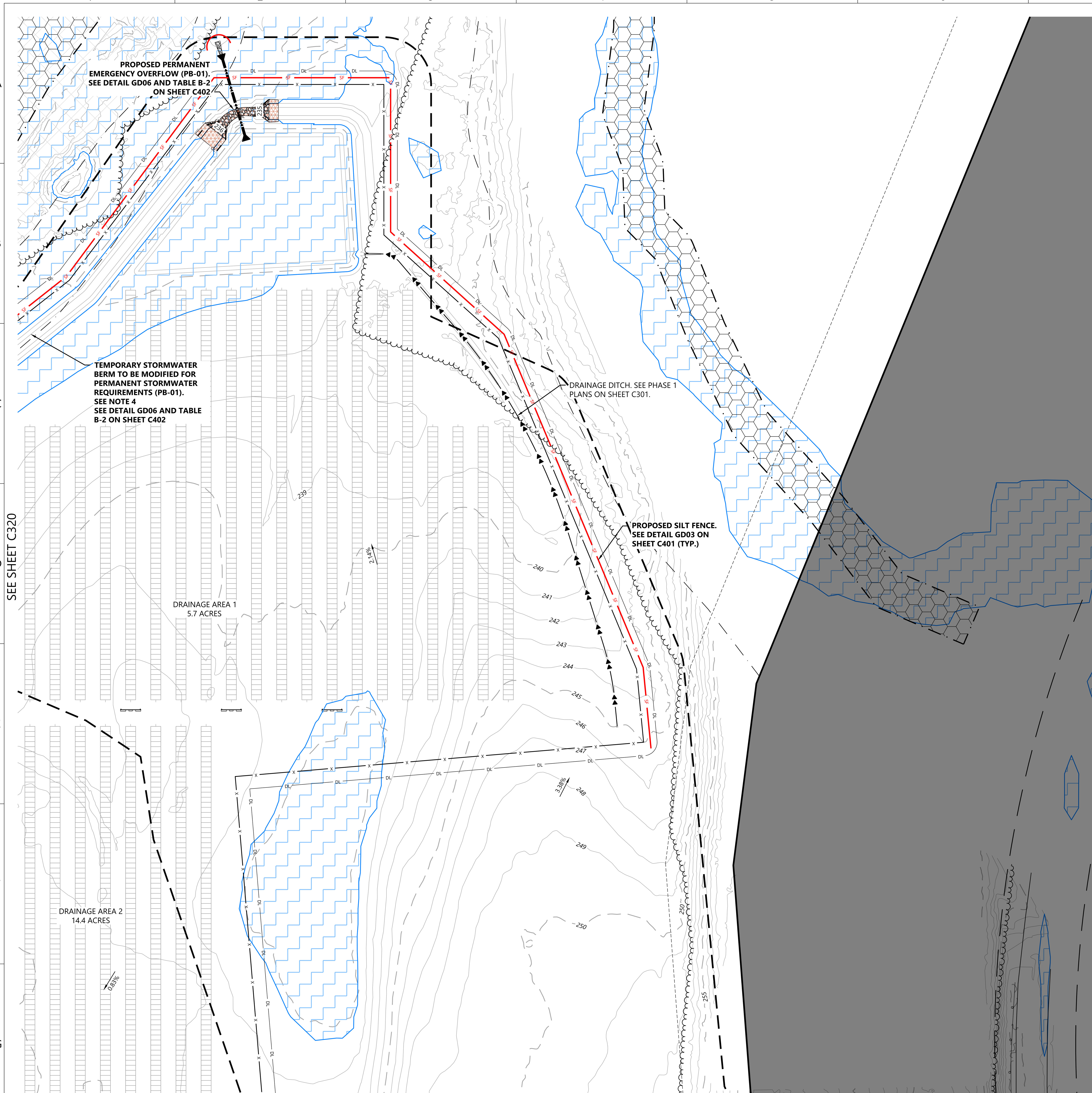
SHEET: C320



LEGEND

- PROPERTY LINE
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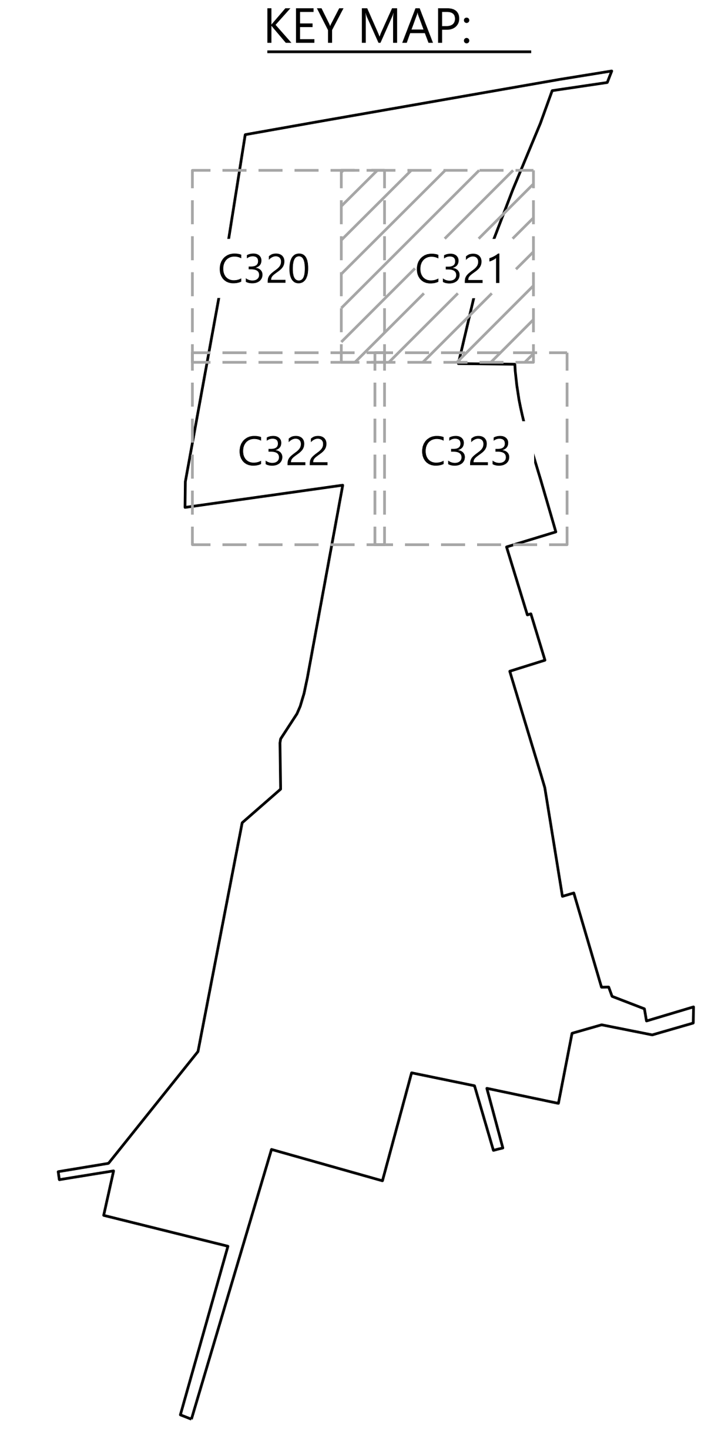

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0' 40' 80' 120'

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Sedimentation & Erosion Control Plan - Phase 3

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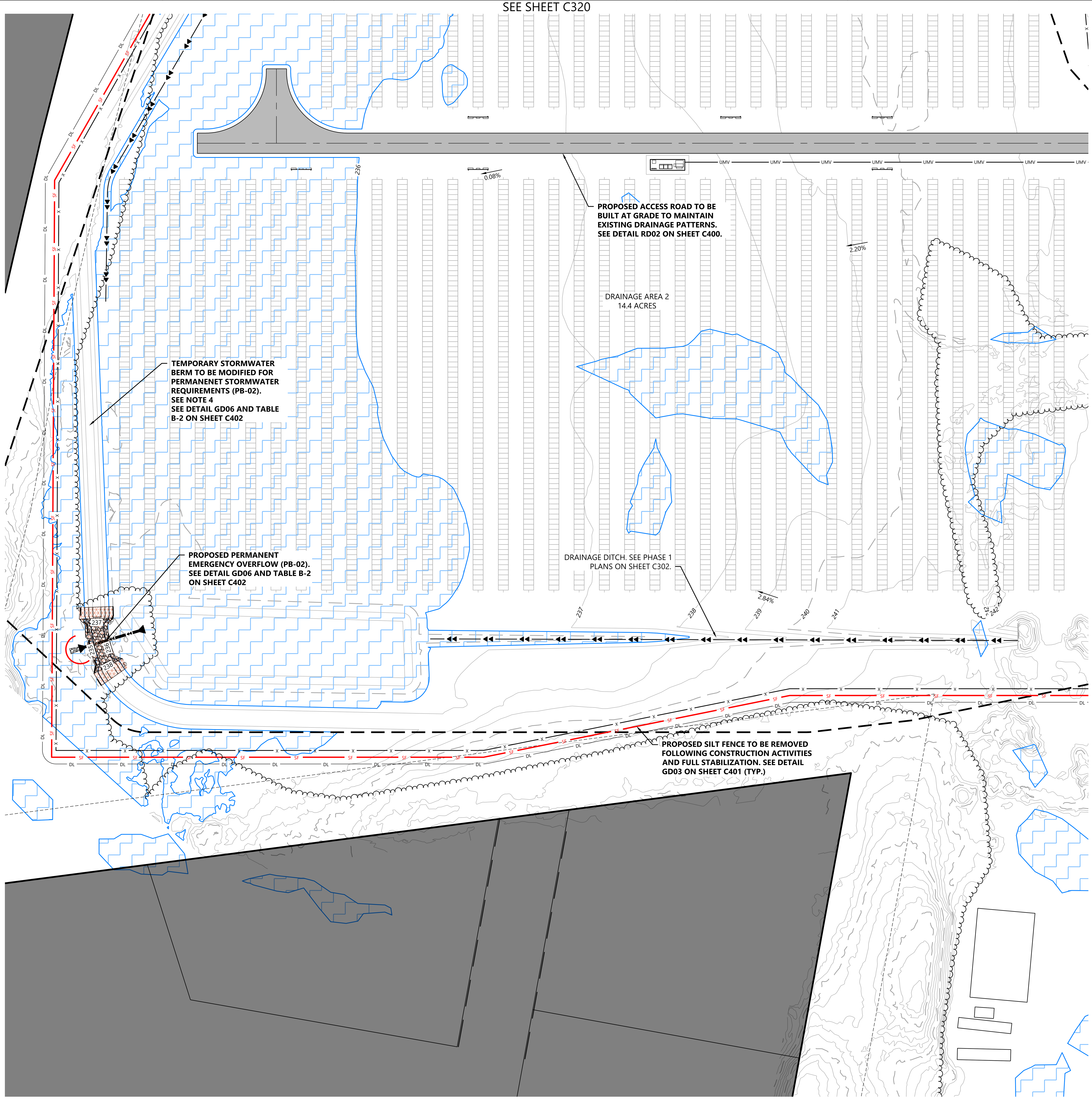
SHEET: C321



LEGEND

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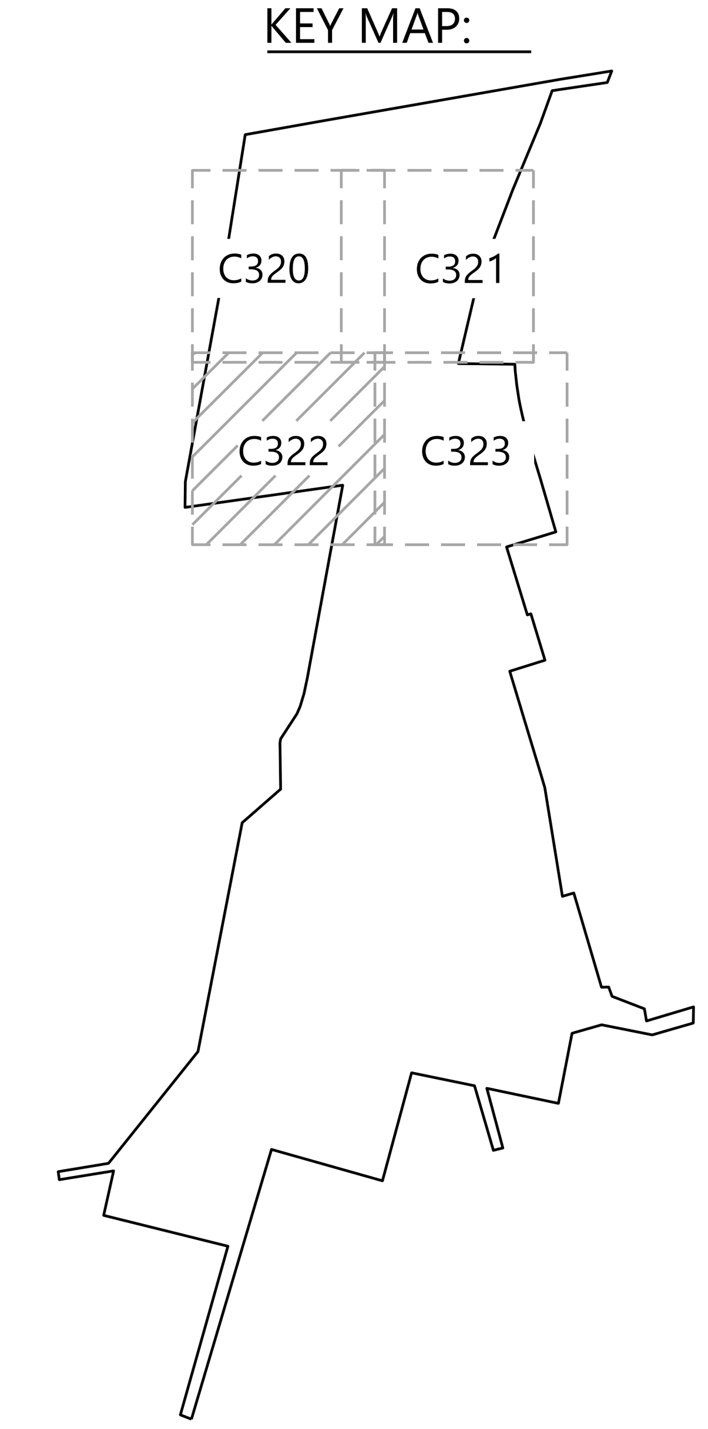

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Sedimentation & Erosion Control Plan - Phase 3

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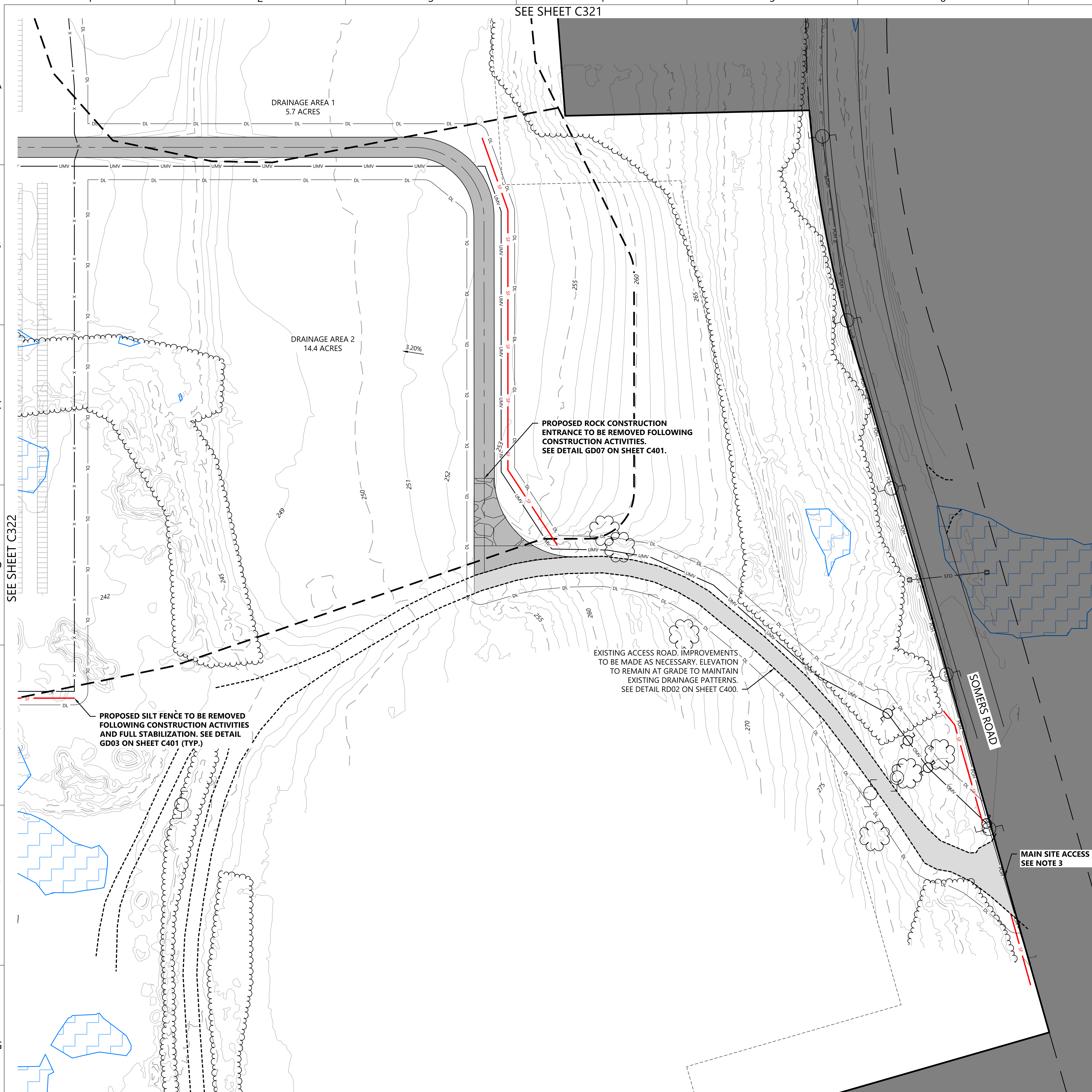
SHEET: C322



LEGEND

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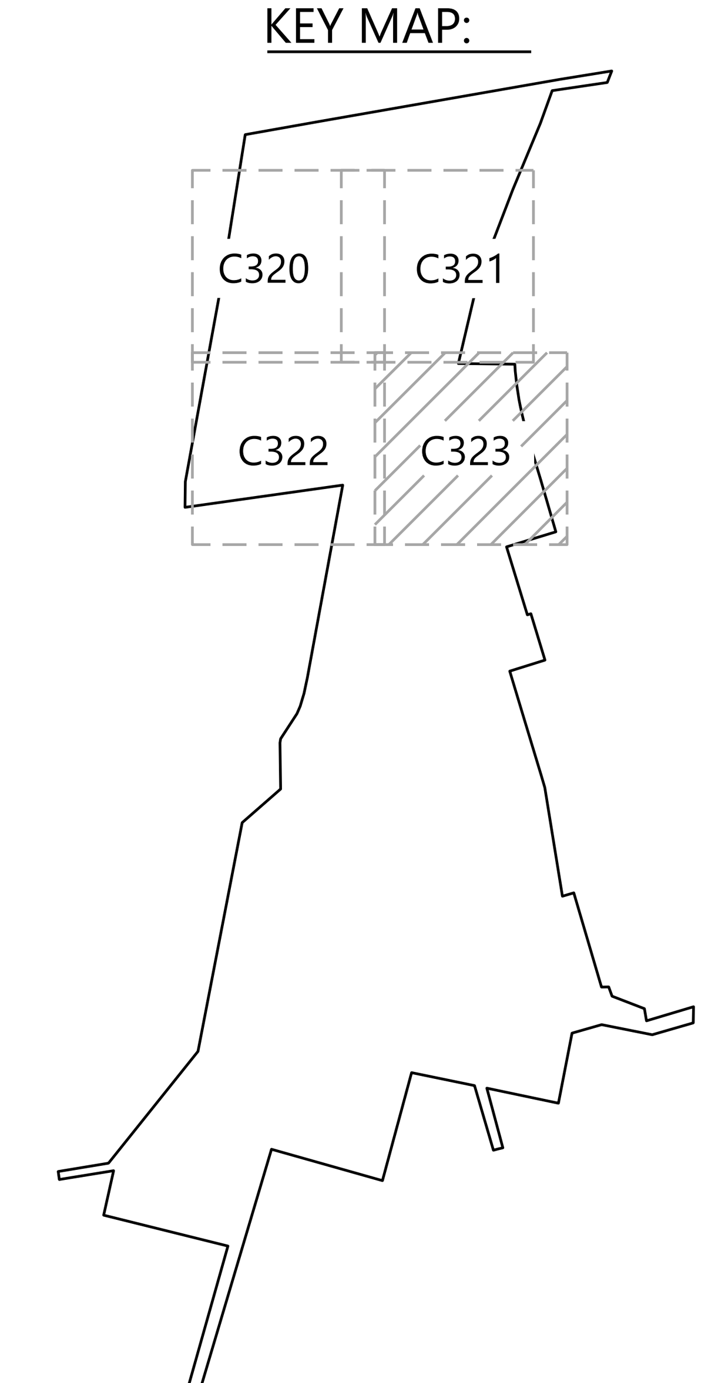

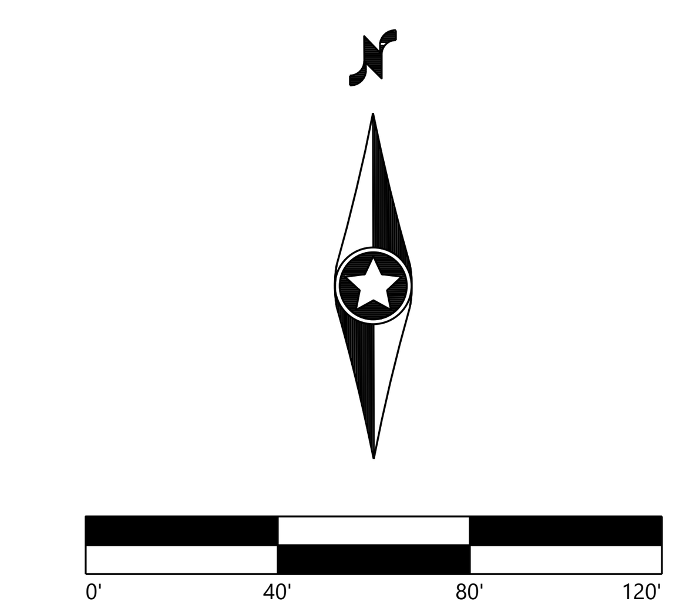

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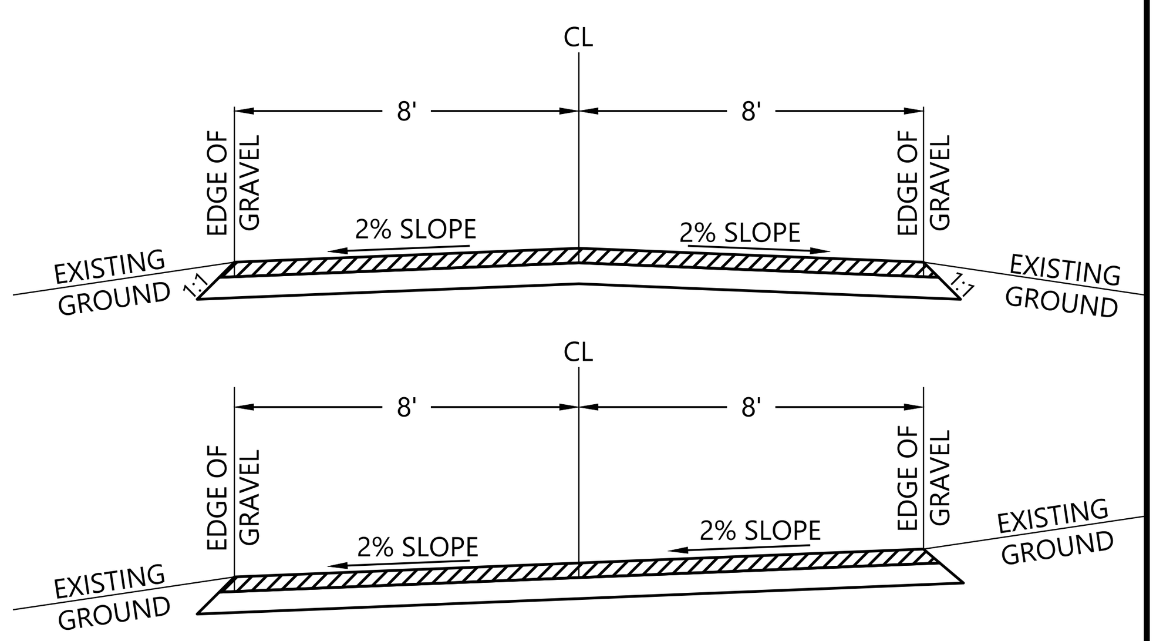
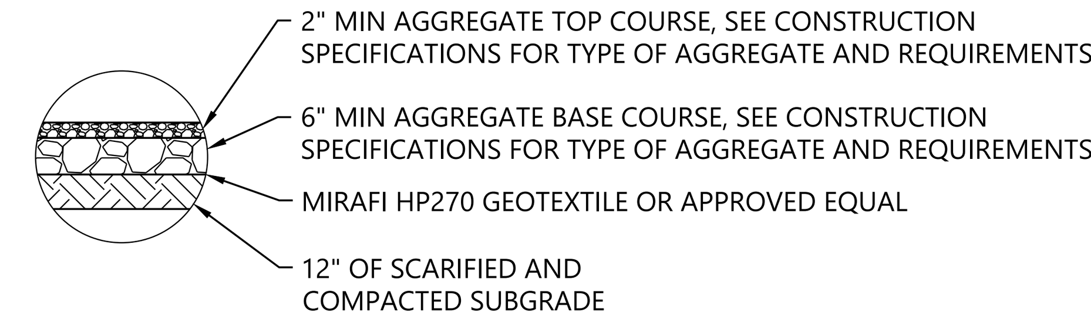
1	2	3	4	5	6	7	8	9



16' ACCESS DRIVEWAY

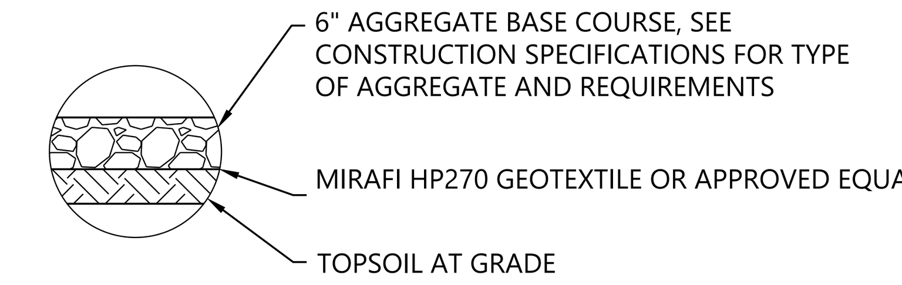
NOTES:
1. CONTRACTOR SHALL CONSTRUCT CROSS-SLOPE ROAD SECTION WHERE ACCESS ROADS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS, TO ENSURE THAT ROADS AND SHOULDERS REMAIN WELL DRAINED AT ALL TIMES.

Westwood	TYPICAL SOLAR ACCESS DRIVE	RD01



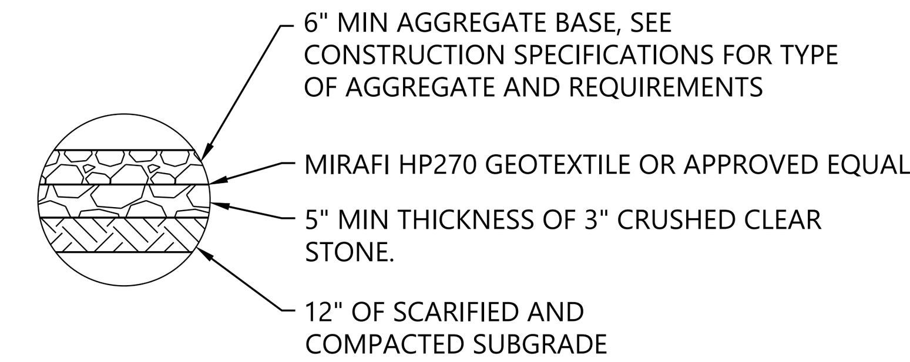
16' ACCESS DRIVE CROSS SECTION

NOTES:
DRIVE SECTION BASED ON FINAL GEOTECHNICAL REPORT. THE AGGREGATE THICKNESS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO CONSTRUCTION DURING UNUSUALLY WET PERIODS, OR IN LOW/WET AREAS.



TEMPORARY GRAVEL LAYDOWN YARD

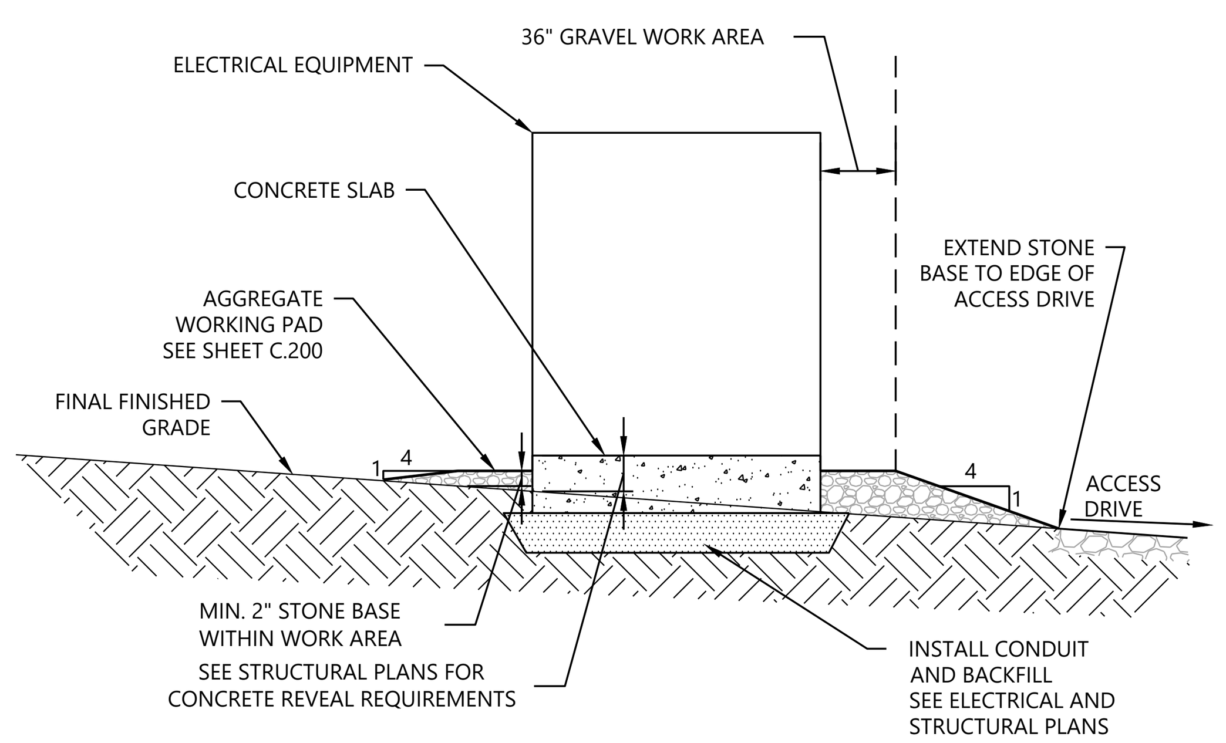
NOTE:
USE OF LAYDOWN YARD IMPROVEMENTS WILL BE DETERMINED BY SOIL TYPE AND ACTUAL FIELD CONDITIONS. DECISION TO USE PROPOSED IMPROVEMENT IS AT CONTRACTORS DISCRETION AT THE TIME OF CONSTRUCTION



ENHANCED 12'-16' ACCESS DRIVE CROSS SECTION

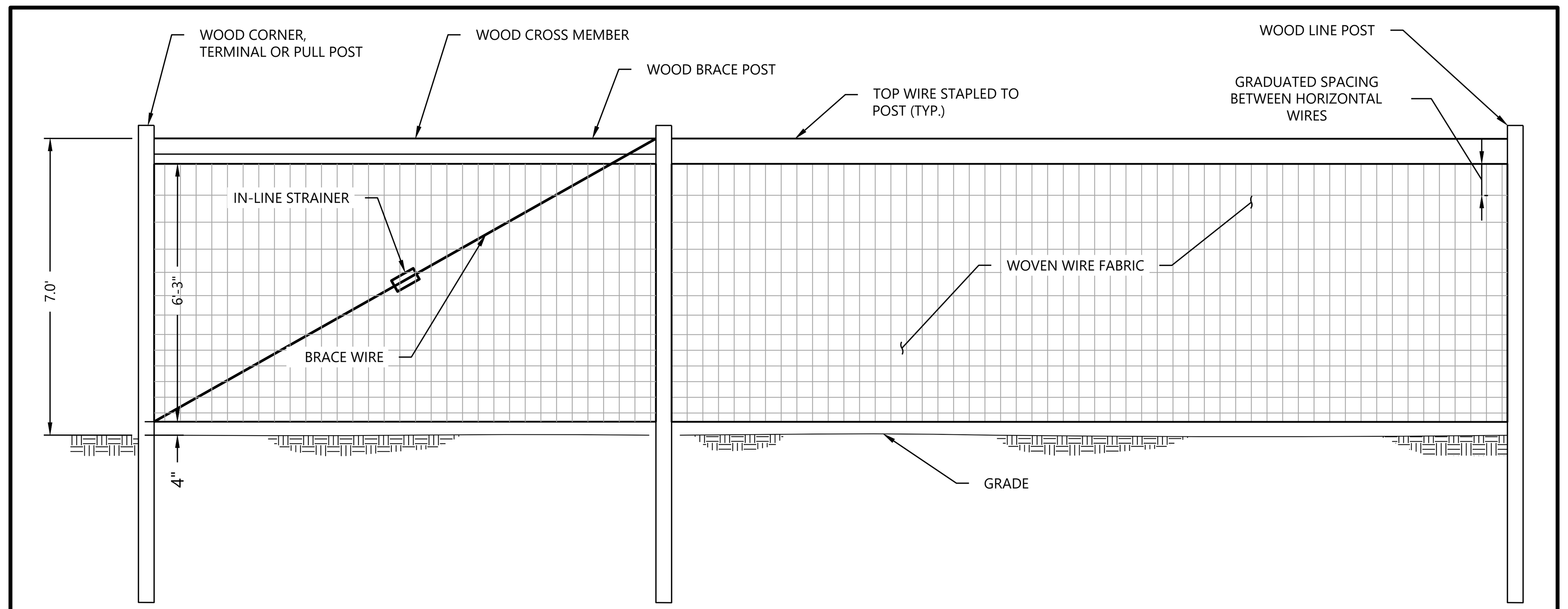
NOTES:
ENHANCED ACCESS DRIVE CROSS SECTION SHALL BE IMPLEMENTED WHERE THE ALTERNATE PROOF ROLL TEST CRITERIA IS APPLICABLE. IF ALTERNATE PROOF ROLL TEST DOES NOT PASS THE ENGINEER OF RECORD SHALL BE CONTACTED.

Westwood	DRIVEWAY AND LAYDOWN STRUCTURAL SECTIONS	RD02



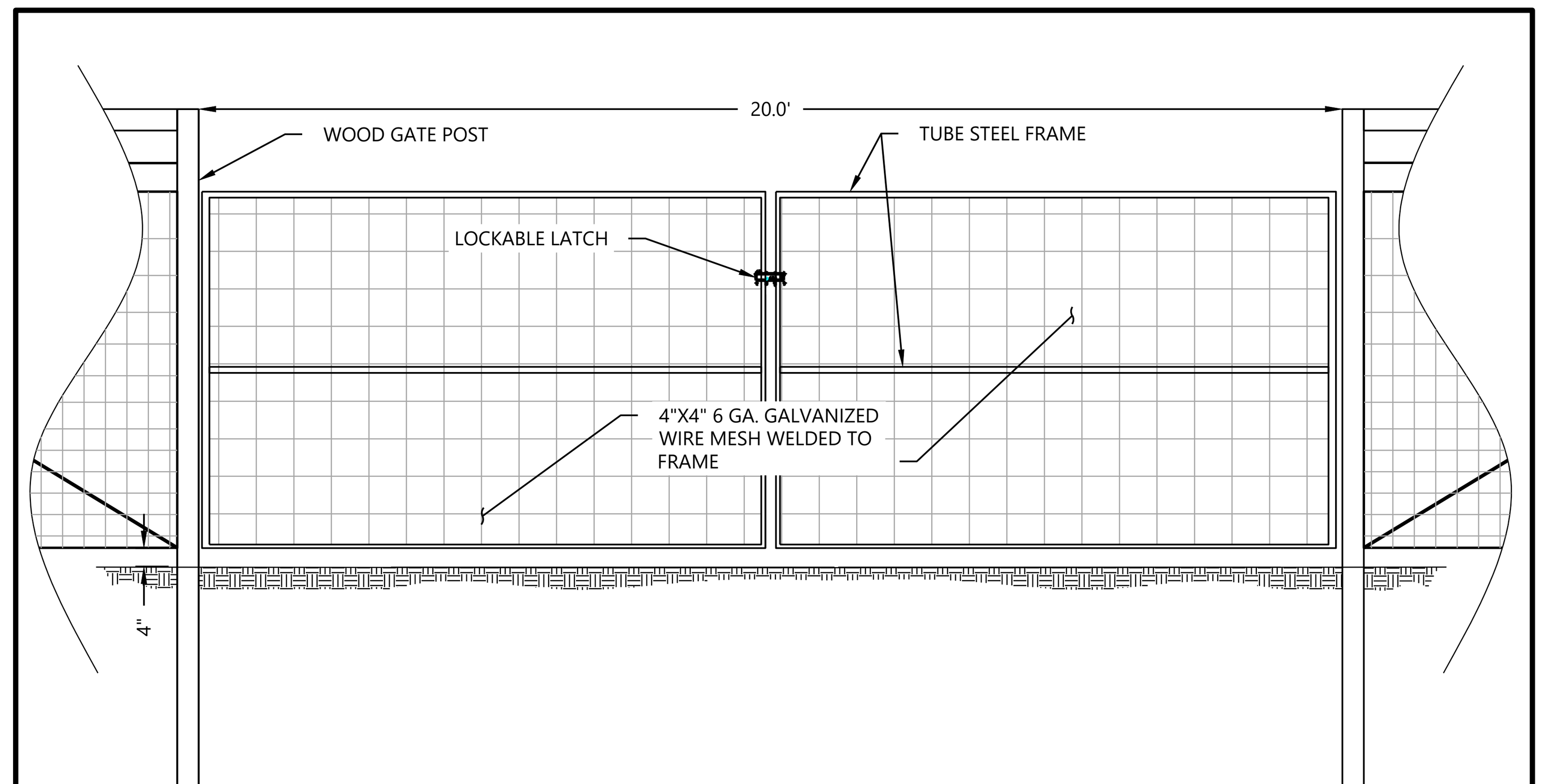
NOTES:
1. SEE STRUCTURAL PLANS FOR FOUNDATION SUBGRADE PREPARATION AND FROST PROTECTION, IF REQUIRED.
2. SEE ELECTRICAL PLANS FOR CONDUIT INSTALLATION AND BACKFILL REQUIREMENTS.
3. SEE ELECTRICAL PLANS FOR EQUIPMENT LOCATIONS ON THE PAD.
4. FINAL TOP OF CONCRETE PAD ELEVATION SHALL BE AT LEAST 2" ABOVE THE SURROUNDING FINAL FINISHED GRADE. CONTRACTOR SHALL ENSURE FINISHED GRADE PROVIDES POSITIVE DRAINAGE AWAY FROM EQUIPMENT PAD.

Westwood	TYPICAL ELECTRICAL EQUIPMENT ON CONCRETE SLAB - PROFILE VIEW	INV02



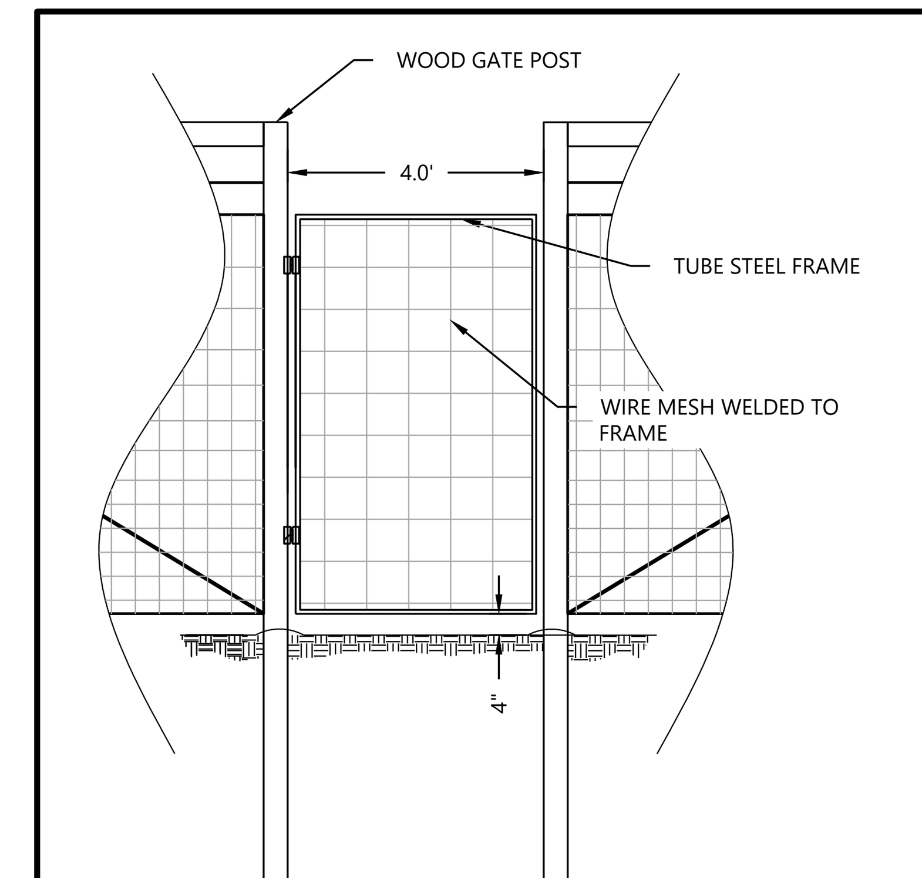
NOTES:
1. FENCE DESIGN TO BE PROVIDED BY SUPPLIER. SEE SUPPLIER DRAWINGS FOR ADDITIONAL DETAIL.
2. PERIMETER BMPs TO REMAIN IN PLACE DURING FENCE INSTALLATION. ANY DAMAGE TO ANY BMPs DURING FENCE INSTALLATION SHALL BE REPAIRED IMMEDIATELY

Westwood	LIVESTOCK FENCE DETAIL	FN01



NOTES:
1. SEE NOTES IN DETAIL FN01 ON THIS SHEET.

Westwood	VEHICLE GATE	FN05A



NOTES:
1. SEE NOTES IN DETAIL FN01 ON THIS SHEET.

Westwood	PERSONNEL GATE	FN05B

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Construction Details

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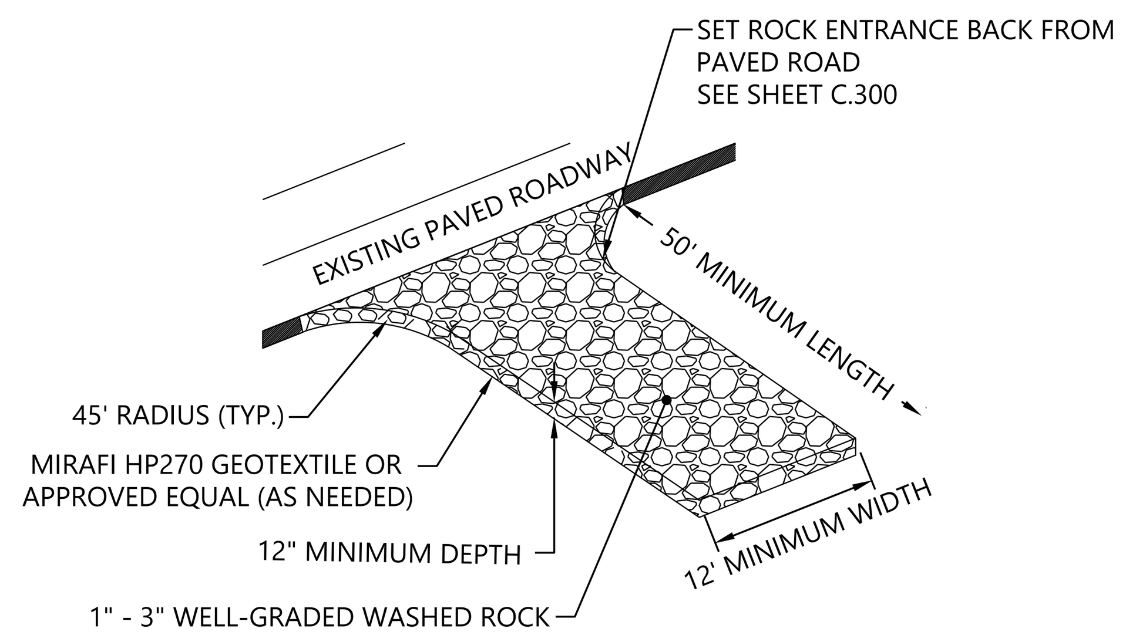
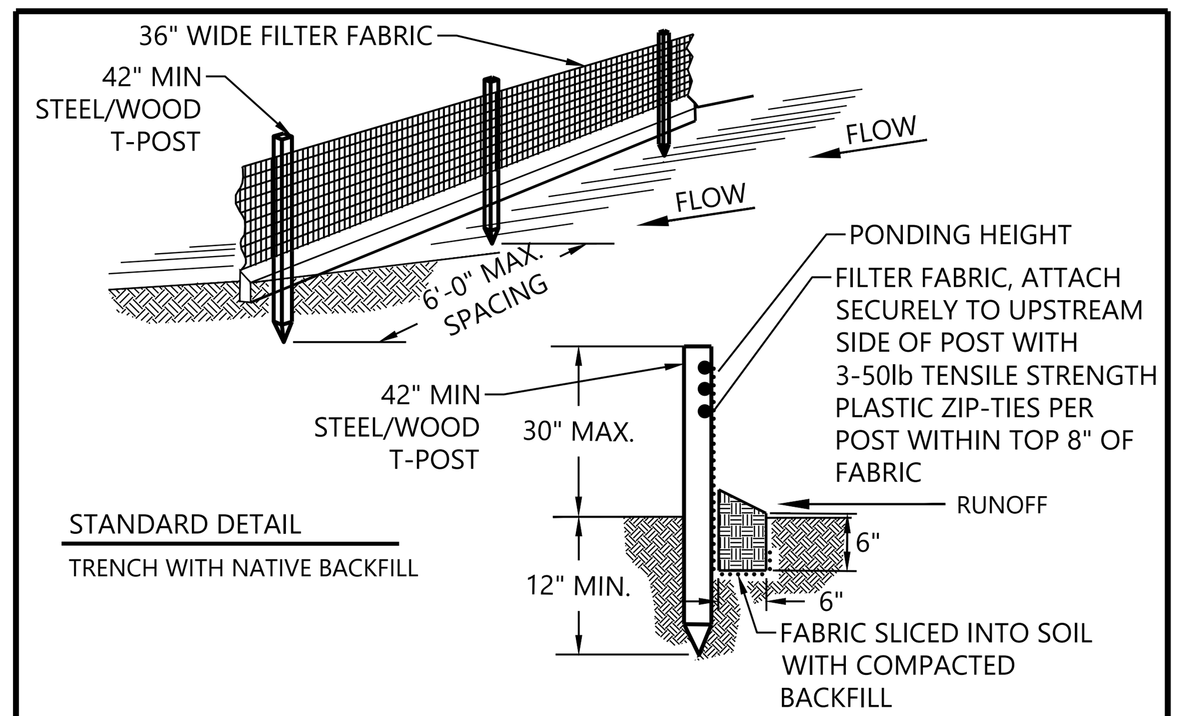
SHEET: C400

1	2	3	4	5	6	7	8	9



NOTES:
ROCK CONSTRUCTION ENTRANCE SHOULD CONTAIN MAXIMUM SIDE SLOPES OF 4:1. ROCK ENTRANCE SHOULD BE INSPECTED AND MAINTAINED REGULARLY. ROCK ENTRANCE LENGTH MAY NEED TO BE EXTENDED IN CLAY SOILS.

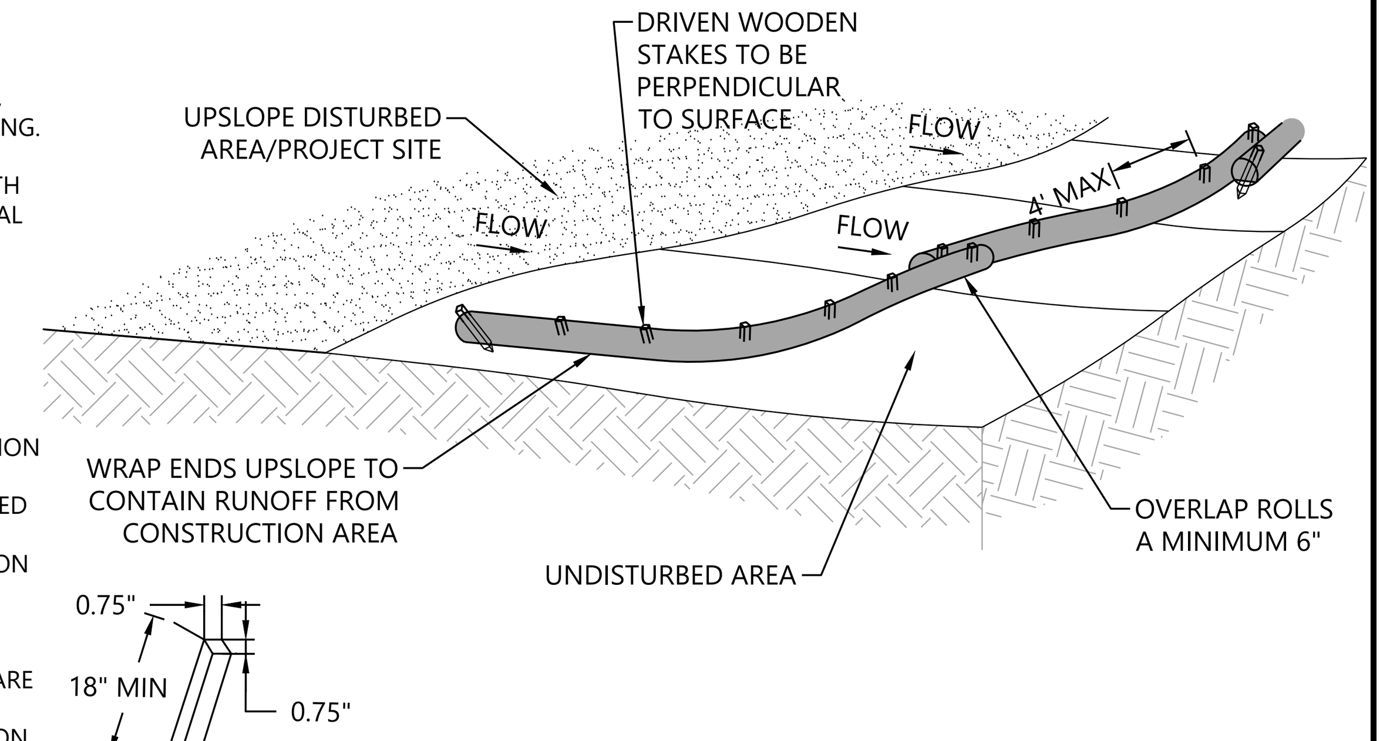
Westwood | ROCK CONSTRUCTION ENTRANCE | GD07



NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN ACCUMULATED TO 1/3 THE HEIGHT OF THE FABRIC OR MORE.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. ALL ENDS OF THE SILT FENCE SHALL BE WRAPPED UPSLOPE SO THE ELEVATION OF THE BOTTOM OF FABRIC IS HIGHER THAN "PONDING HEIGHT".

Westwood | SILT FENCE | GD03

NOTES:
1. FIBER ROLLS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES COMMENCE.
2. FIBER ROLLS SHALL BE PREFABRICATED AND MADE FROM WEED FREE RICE STRAW, FLAX, OR A SIMILAR AGRICULTURAL MATERIAL BOUND INTO A TIGHT TUBULAR ROLL BY NETTING. USE A 6" OR 12" DIA. ROLL.
3. TRENCHES SHALL BE CREATED ALONG THE SLOPE OF THE PERIMETER. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE THICKNESS OF THE ROLL, AND THE WIDTH SHOULD EQUAL THE ROLL DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH.
4. STAKE FIBER ROLLS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FEET MAXIMUM ON CENTER. USE WOOD STAKES WITH NOMINAL CLASSIFICATION OF 0.75 IN BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN.
5. ROLLS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR.
6. TURN THE ENDS OF THE FIBER ROLLS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. THE UPSLOPE POINT SHOULD BE A MINIMUM 6" HIGHER IN ELEVATION THAN THE LOW POINT.
7. IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED A MINIMUM OF 6 INCHES, NOT ABUTTED.
8. FIBER ROLLS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION ONLY AND SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER ROLLS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN.
9. TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY
10. FIBER ROLLS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE ASSOCIATED PROJECT TYPE AND RISK LEVEL. IT IS RECOMMENDED THAT AT A MINIMUM, THE BMPS BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS.
11. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER ROLLS.
12. SEDIMENT THAT ACCUMULATES UPSLOPE OF THE BMP SHOULD BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-THIRD THE DESIGNATED SEDIMENT STORAGE DEPTH

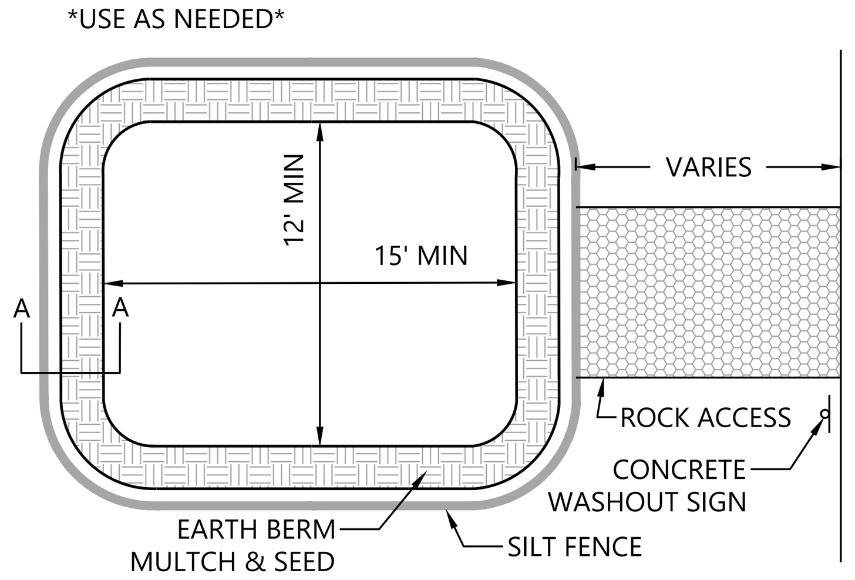


13. RILLS OR GULLIES MAY BEGIN TO FORM FOLLOWING MAJOR STORM EVENTS WHERE RUNOFF HAS OVERTOPPED THE FIBER ROLLS. THESE RILLS OR GULLIES SHOULD BE PROMPTLY REPAIRED.

* IF EXISTING SOILS DO NOT ALLOW WOOD STAKES OR REBAR STAKES TO BE INSTALLED, ROCK OR CONCRETE CINDER BLOCKS CAN BE USED TO ANCHOR FIBER ROLLS. ROCKS SHOULD BE 10"-14" IN DIAMETER. SPACING SHOULD BE SET EVERY 2'-4'.

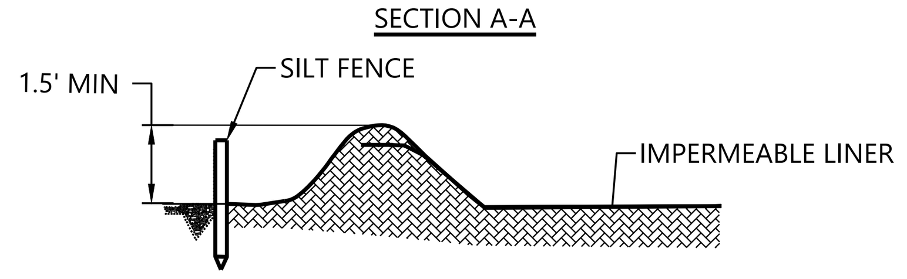
Westwood | TYPICAL FIBER ROLLS FOR PERIMETER CONTROL | NOT TO SCALE | GD42

AN APPROVED ALTERNATE MAY BE USED
USE AS NEEDED

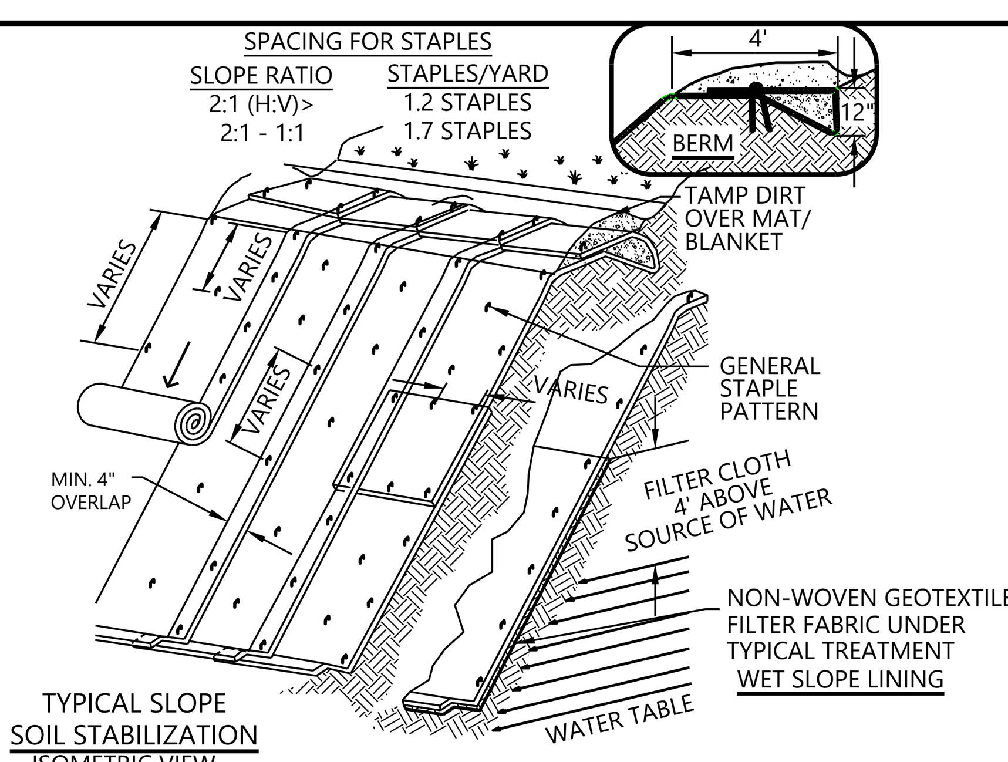


NOTE:
CONCRETE WASHOUT AREAS WILL HAVE AN IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL. IMPERMEABLE LINER INCLUDES 10 MIL POLYLINER OR COMPACTED CLAY LINER. WASHOUT SYSTEMS CAN BE USED AS ALTERNATE WASHOUT AREAS.

SECTION A-A



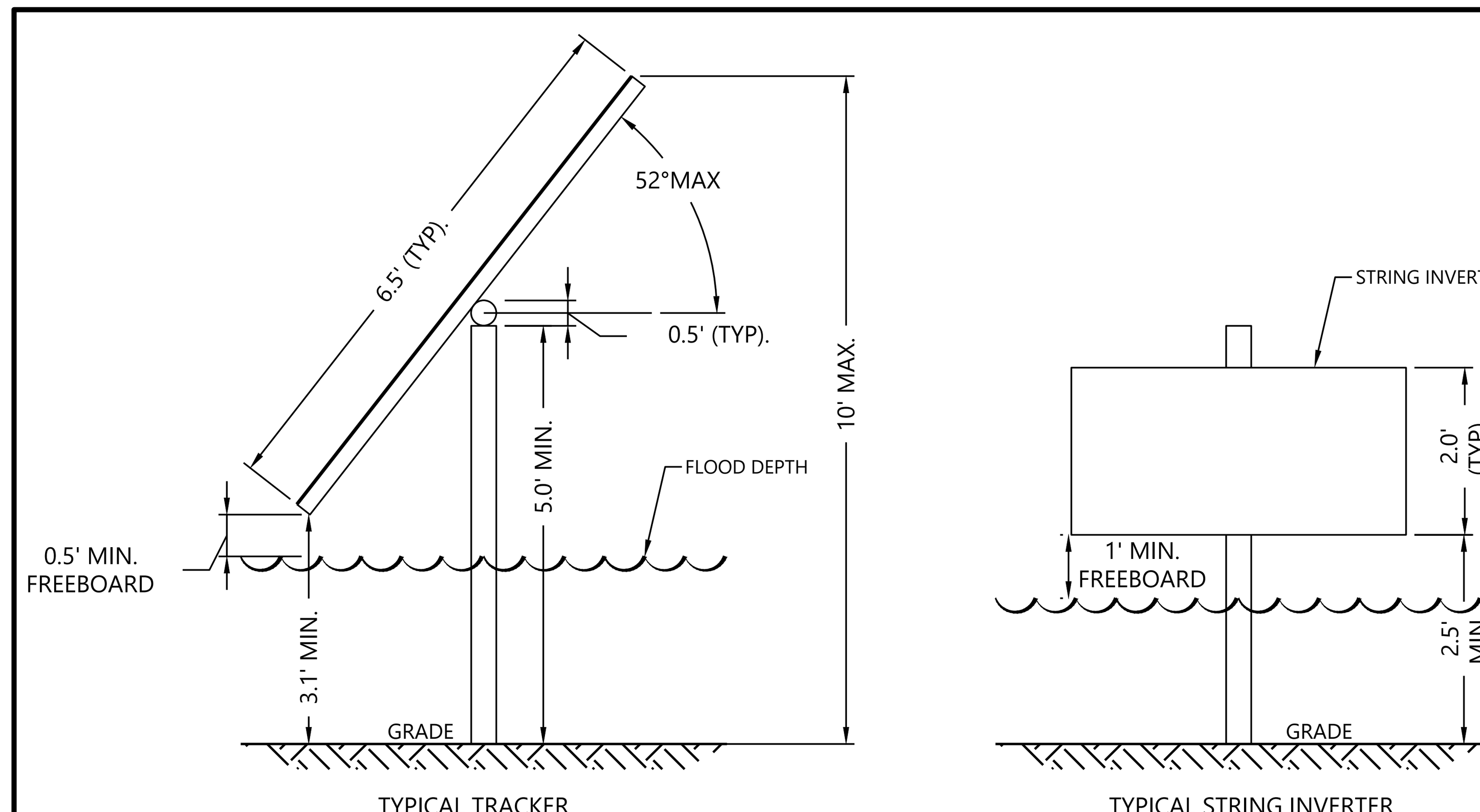
Westwood | CONCRETE WASHOUT AREA | GD08



TYPICAL SLOPE SOIL STABILIZATION
ISOMETRIC VIEW

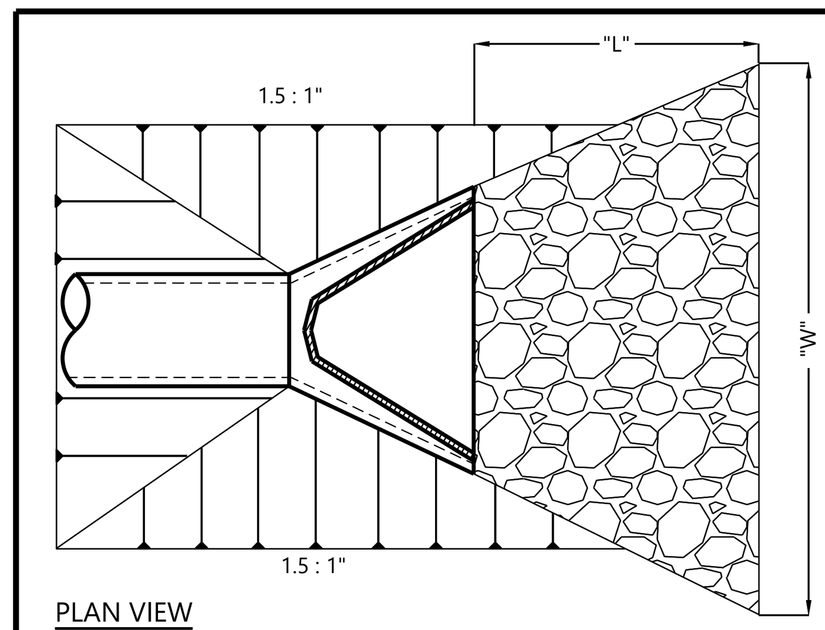
NOTES:
1. REFER TO THE PROJECT SWPPP FOR IMPLEMENTATION REQUIREMENTS.
2. MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICK AND GRASS.
4. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
5. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL.
6. DO NOT STRETCH.
7. BLANKET TYPE AND WEIGHT MUST BE CHOOSEN BASED ON SITE CONDITIONS AND MANUFACTURERS RECOMMENDATIONS.
8. STAPLE LENGTHS SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS.

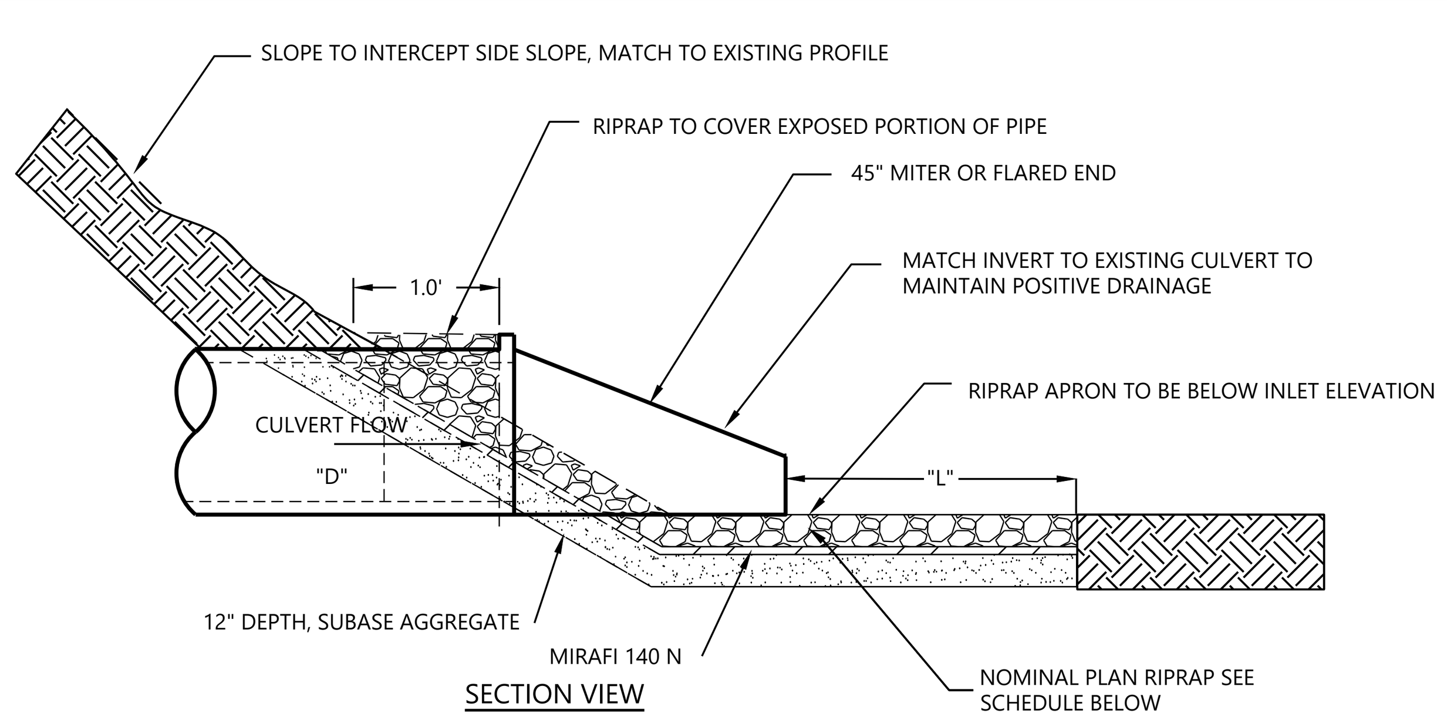
Westwood | TEMPORARY EROSION BLANKETS TURF REINFORCEMENT MATS FOR SLOPES | GD21



NOTES:
1. ALL DIMENSION ARE APPROXIMATE. REFERENCE STRUCTURAL DRAWINGS FOR SPECIFIC HEIGHT REQUIREMENTS.
2. SEE SHEET C.300 FOR MAXIMUM FLOOD DEPTHS.

Westwood | TYPICAL FLOOD DEPTH CRITERIA | FL01

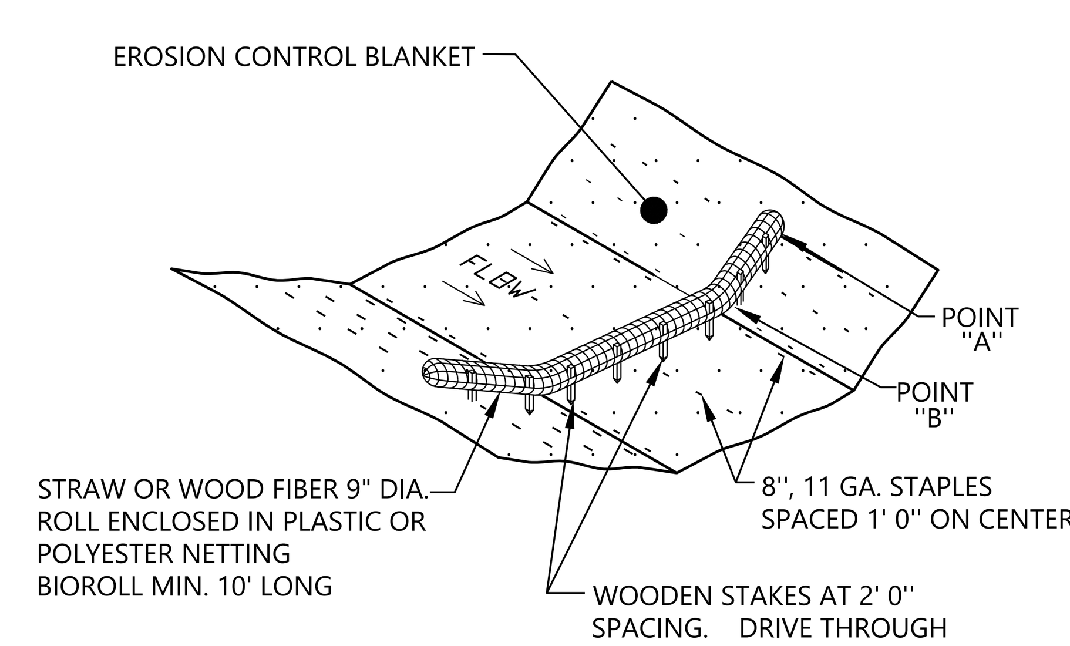




SCHEDULE FOR STORM DRAIN				
CULVERT DIAMETER (D)	LENGTH (L)	WIDTH (W)	STONE ds_{50}	RIPRAP THICKNESS
12"	8'	12'	6"	14"
18"	10'	12'	6"	14"
24"	12'	14'	6"	14"
30"	16'	20'	12"	27"
36"	20'	23'	12"	27"

NOTES:
1. RIPRAP GRADATION AND PLACEMENT -THE RIPRAP GRADATION SHALL BE A WELL-GRADED MIX FROM ABOUT 1.5 TIMES THE D^{50} SIZE TO ABOUT 25 PERCENT OF THE D^{50} SIZE. THE RIPRAP STONES SHALL BE CAREFULLY PLACED WORKING FROM THE TOE OF THE SLOPED UPWARD. THE STONES SHOULD BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12 INCHES ONTO THE GEOTEXTILE. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH UNIFORMLY SLOPED SURFACE.

Westwood | PIPE/CULVERT OUTLET APRON | GD04



NOTE:
1. POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
2. TYPE OF MATERIAL FOR EROSION CONTROL BLANKET IS SUBJECT TO FIELD CONDITIONS AND MANUFACTURERS RECOMMENDATION.

Westwood | TEMPORARY BIOROLL BLANKET SYSTEM (DITCH APPLICATION) | GD23

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REVISIONS:

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B	03/20/23	Issued for CSC Petition
C	05/17/23	Issued for CSC Petition
D	07/28/23	Issued for CSC Petition
E	11/01/23	Issued for CSC Petition

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Construction Details

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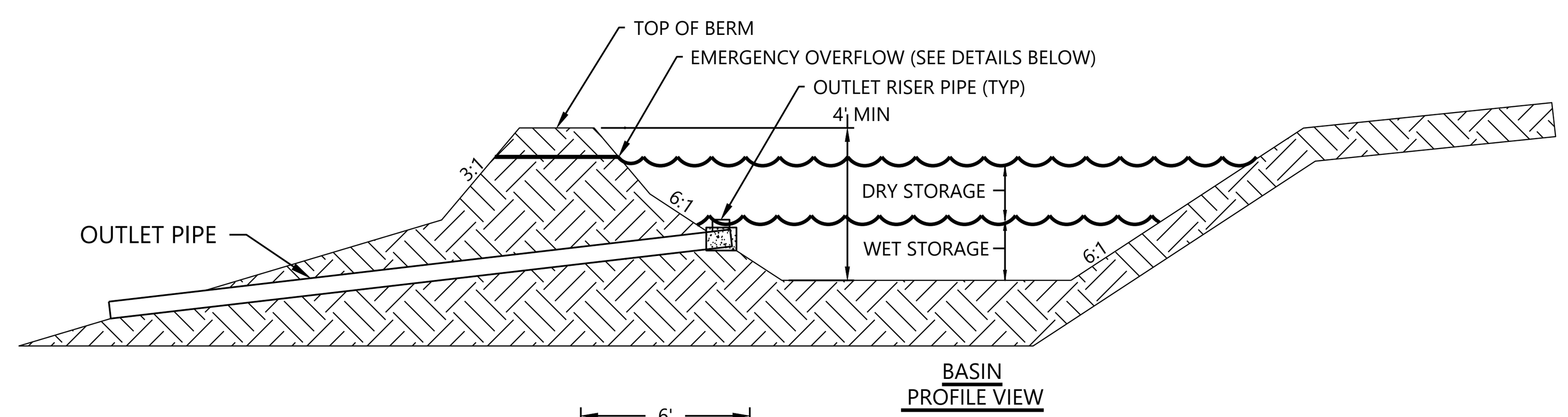
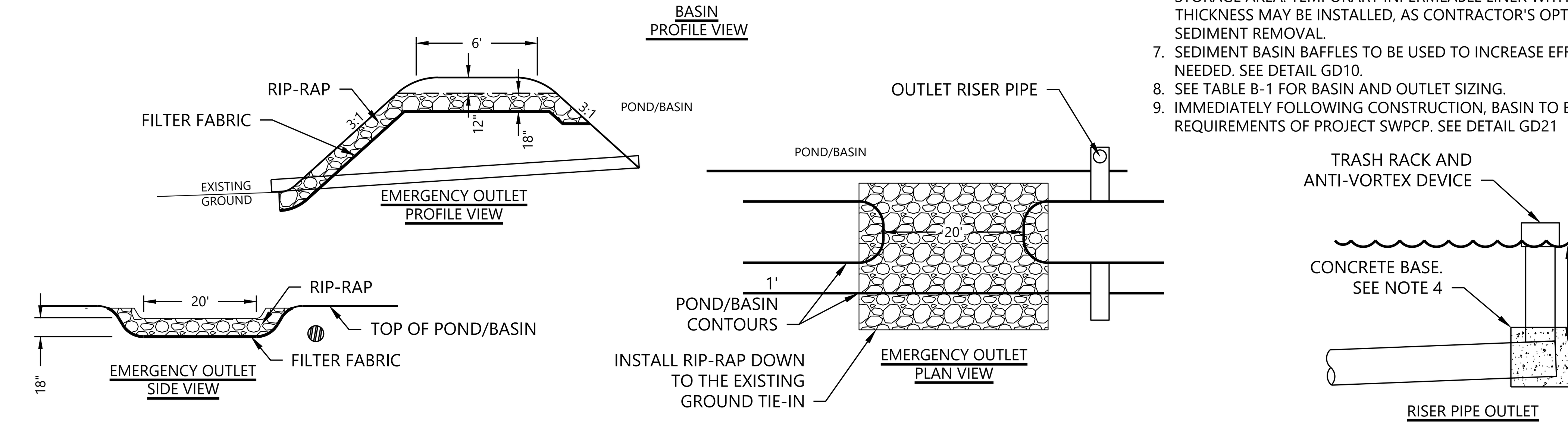
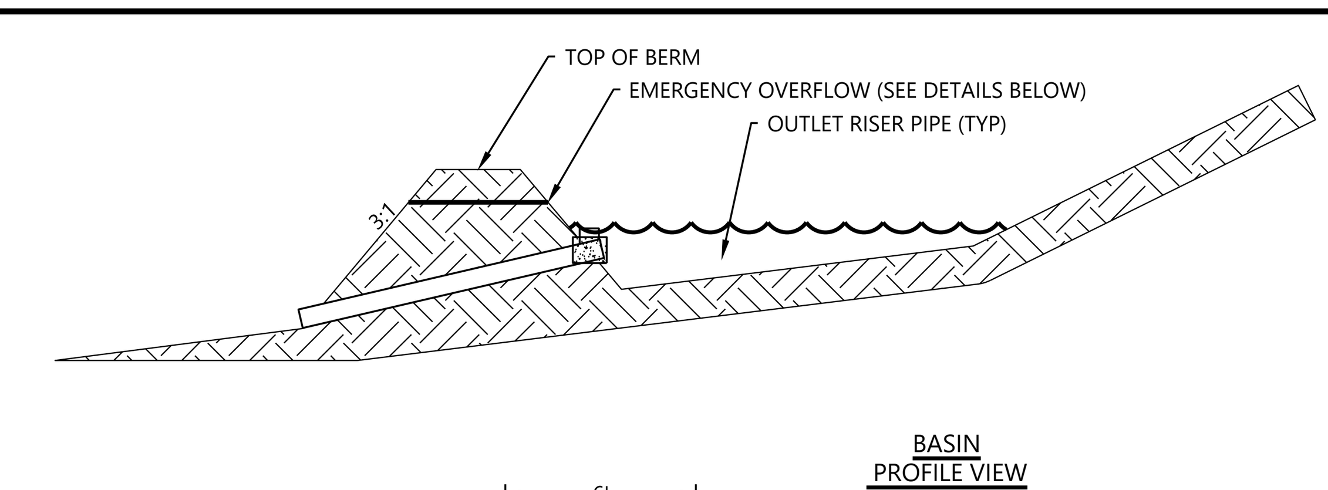


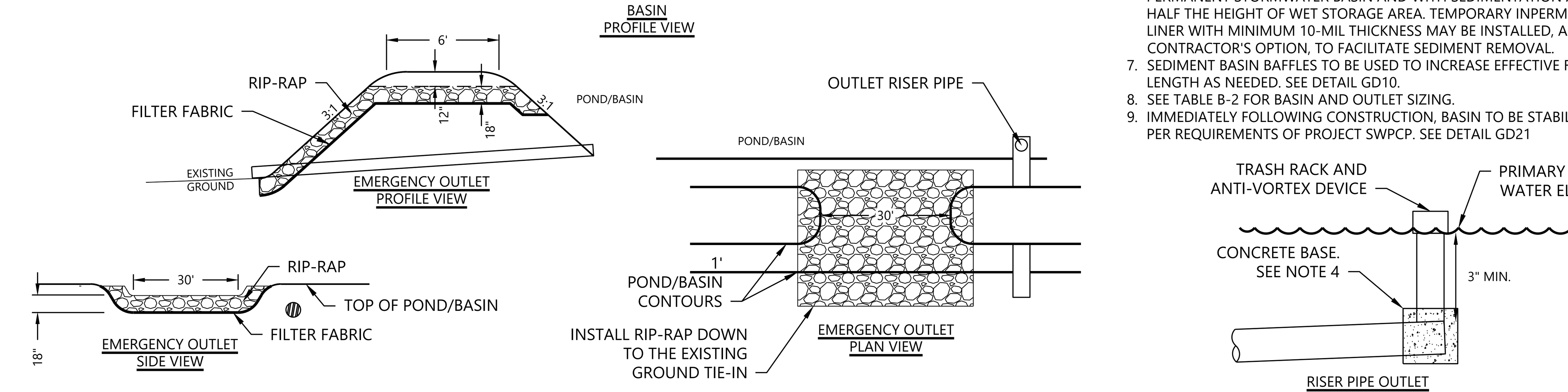
NOTES:
1. INSTALL RIP-RAP PER CTDOT SPEC M.12.02
2. RIP-RAP SHALL BE MODIFIED RIP-RAP PER CTDOT SPEC M.12.02
3. OUTLET AND RISER PIPE SHALL BE PVC 1120 SCHEDULE 40 AND CONFORM WITH ASTM D 1785 OR ASTM D 2241. PIPE JOINTS SHALL BE SOLVENT WELDED, O-RING, OR THREADED TO PROVIDE A WATERTIGHT SEAL.
4. THE RISER PIPE SHALL BE EMBEDDED 6" INTO AN 18" THICK CONCRETE BASE TO PREVENT FLOTATION. THE WIDTH OF THE CONCRETE BASE SHALL BE TWICE THE WIDTH OF THE RISER PIPE DIAMETER.
5. A TRASH RACK AND ANTI-VORTEX DEVICE SHALL BE INSTALLED ON THE OUTLET RISER PIPE.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED WITH TRANSITION TO PERMANENT STORMWATER BASIN AND WITH SEDIMENTATION ABOVE HALF THE HEIGHT OF WET STORAGE AREA. TEMPORARY INPERMEABLE LINER WITH MINIMUM 10-MIL THICKNESS MAY BE INSTALLED, AS CONTRACTOR'S OPTION, TO FACILITATE SEDIMENT REMOVAL.
7. SEDIMENT BASIN BAFFLES TO BE USED TO INCREASE EFFECTIVE FLOW LENGTH AS NEEDED. SEE DETAIL GD10.
8. SEE TABLE B-1 FOR BASIN AND OUTLET SIZING.
9. IMMEDIATELY FOLLOWING CONSTRUCTION, BASIN TO BE STABILIZED PER REQUIREMENTS OF PROJECT SWPCP. SEE DETAIL GD21



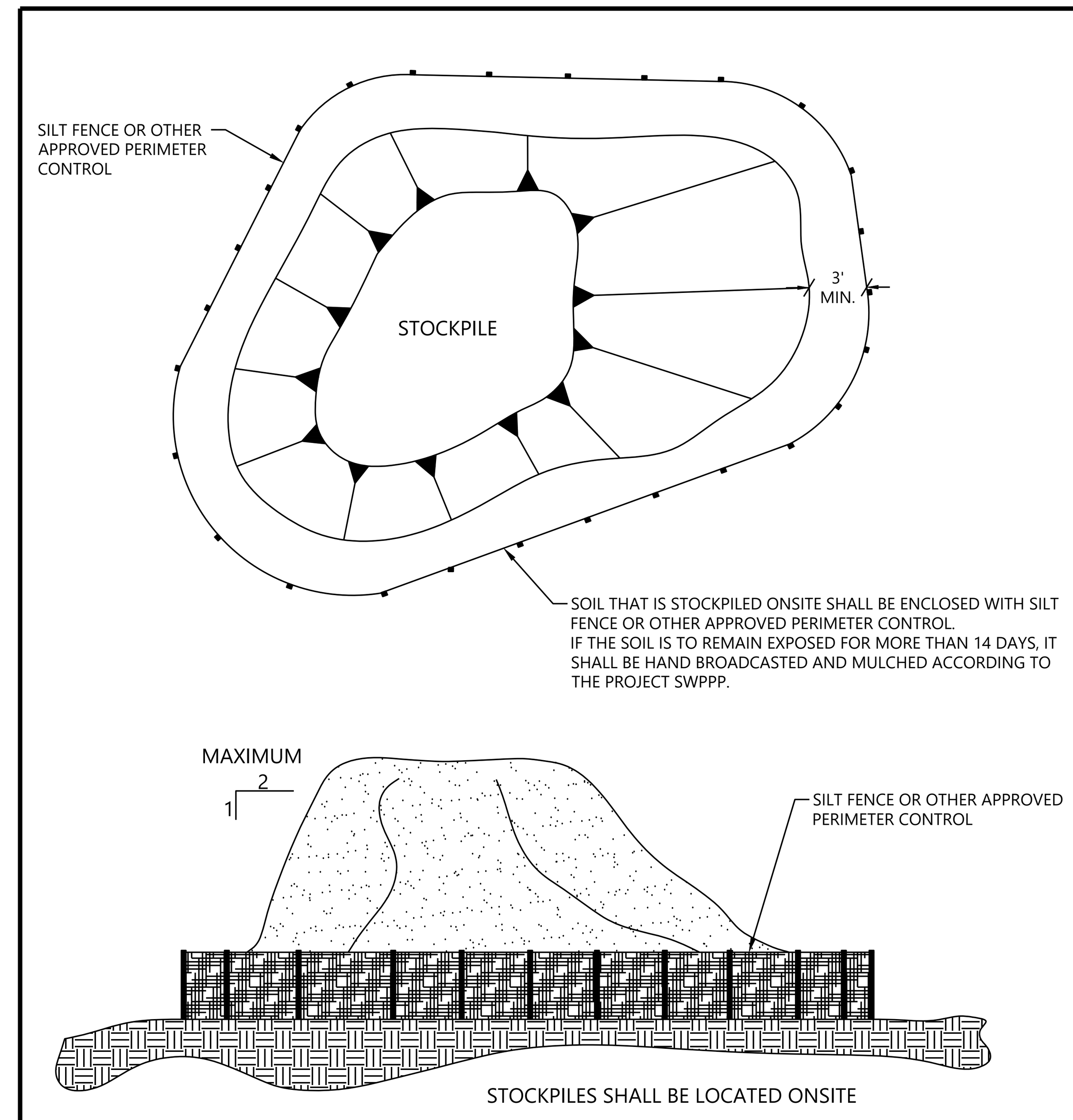
Westwood	TYPICAL TEMPORARY WET SEDIMENTATION BASIN & LIVE STORAGE BERM	GD05



NOTES:
1. INSTALL RIP-RAP PER CTDOT SPEC M.12.02
2. RIP-RAP SHALL BE MODIFIED RIP-RAP PER CTDOT SPEC M.12.02
3. OUTLET AND RISER PIPE SHALL BE PVC 1120 SCHEDULE 40 AND CONFORM WITH ASTM D 1785 OR ASTM D 2241. PIPE JOINTS SHALL BE SOLVENT WELDED, O-RING, OR THREADED TO PROVIDE A WATERTIGHT SEAL.
4. THE RISER PIPE SHALL BE EMBEDDED 6" INTO AN 18" THICK CONCRETE BASE TO PREVENT FLOTATION. THE WIDTH OF THE CONCRETE BASE SHALL BE TWICE THE WIDTH OF THE RISER PIPE DIAMETER.
5. A TRASH RACK AND ANTI-VORTEX DEVICE SHALL BE INSTALLED ON THE OUTLET RISER PIPE.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED WITH TRANSITION TO PERMANENT STORMWATER BASIN AND WITH SEDIMENTATION ABOVE HALF THE HEIGHT OF WET STORAGE AREA. TEMPORARY INPERMEABLE LINER WITH MINIMUM 10-MIL THICKNESS MAY BE INSTALLED, AS CONTRACTOR'S OPTION, TO FACILITATE SEDIMENT REMOVAL.
7. SEDIMENT BASIN BAFFLES TO BE USED TO INCREASE EFFECTIVE FLOW LENGTH AS NEEDED. SEE DETAIL GD10.
8. SEE TABLE B-2 FOR BASIN AND OUTLET SIZING.
9. IMMEDIATELY FOLLOWING CONSTRUCTION, BASIN TO BE STABILIZED PER REQUIREMENTS OF PROJECT SWPCP. SEE DETAIL GD21

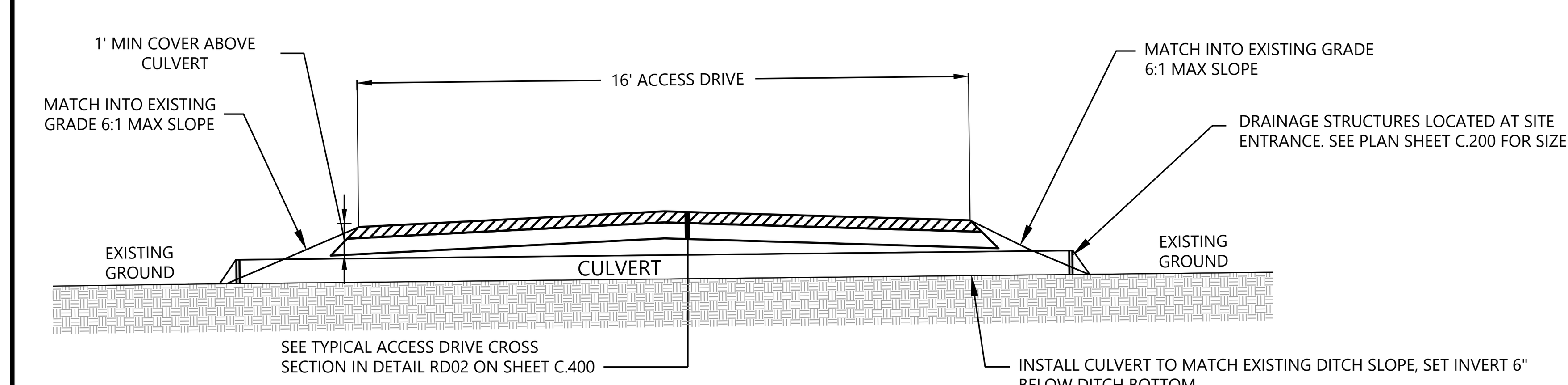


Westwood	TYPICAL PERMANENT DETENTION BASIN	GD06

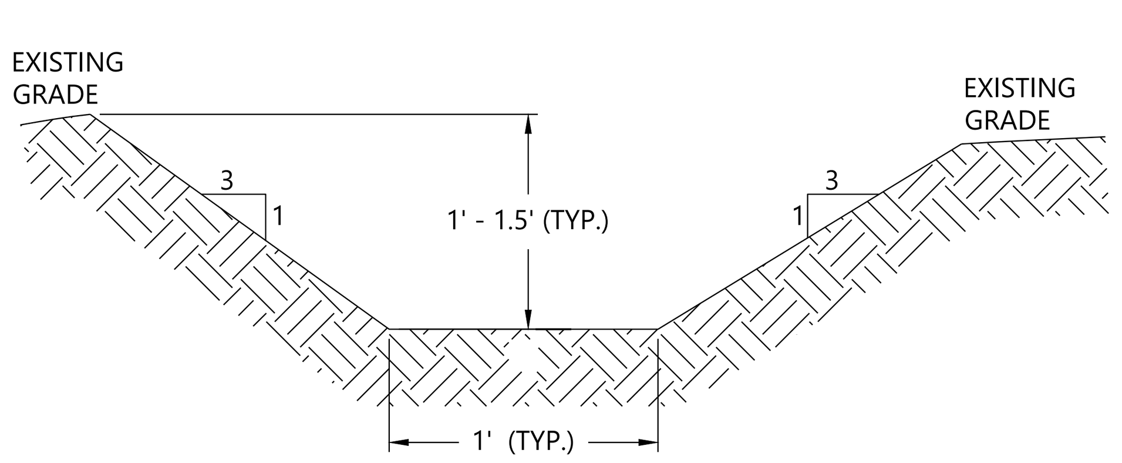


NOTES:
1. DETAIL PULLED FROM MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA BY GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

Westwood	TYPICAL SOIL STOCKPILE PROTECTION (NOT TO SCALE)	01

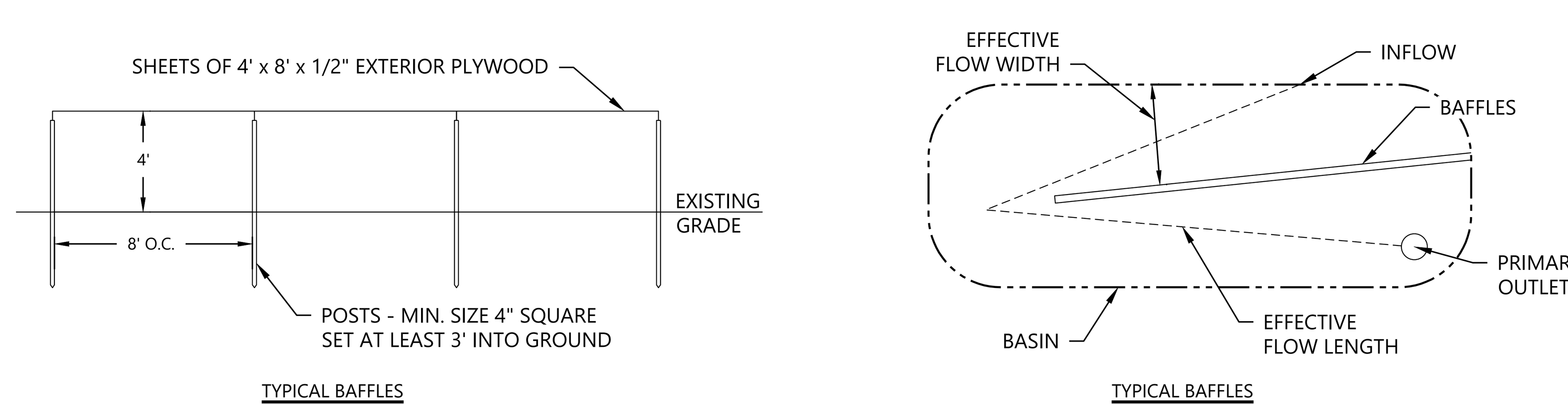


Westwood	TYPICAL CULVERT SECTION VIEW	GD01



NOTES:
1. STABILIZE CHANNEL SIDE SLOPES PER THE PROJECT SWPPP.
2. 9" FIBER ROLLS TO BE INSTALLED ALONG DRAINAGE DITCH, PARALLEL TO WATER FLOW, AT 100' SPACING. SEE DETAIL GD23
3. IMMEDIATELY FOLLOWING CONSTRUCTION, BASIN TO BE STABILIZED PER REQUIREMENTS OF PROJECT SWPCP. SEE DETAIL GD21 (EROSION CONTROL BLANKET)

Westwood	DRAINAGE DITCH	GD02



NOTES:
1. SEDIMENT BASIN BAFFLES TO BE USED SUCH THAT THE EFFECTIVE FLOW LENGTH IS AT LEAST TWICE THE EFFECTIVE FLOW WIDTH.

Westwood	TYPICAL SEDIMENT BASIN BAFFLE	GD10

TABLE B-1: TEMPORARY BASIN SIZING REQUIREMENTS

	TB-01	TB-02
REQUIRED STORAGE	0.79 af	2.76
PROVIDED STORAGE	1.68 af	6.26 af
REQUIRED BELOW GRADE STORAGE	0.11 af	0.27 af
PROVIDED BELOW GRADE STORAGE	0.55 af	0.51 af
BOTTOM ELEVATION	233'	233'
OUTLET ELEVATION	235'	235'
EMERGENCY OVERFLOW ELEVATION	236.5'	236.5'
TOP OF BERM ELEVATION	238'	238'
25-YR HWL	237.1'	237.2'
OUTLET PIPE SIZE	15"	15"
OUTLET RISER PIPE SIZE	15"	15"
OUTLET PIPE LENGTH	66 LF	53 LF

TABLE B-2: PERMANENT BASIN SIZING REQUIREMENTS

	PB-01	PB-02
REQUIRED STORAGE	0.021 af	0.099 af
PROVIDED STORAGE	0.74 af	3.71 af
BOTTOM ELEVATION	233'	233'
OUTLET ELEVATION	235'	235'
EMERGENCY OVERFLOW ELEVATION	236.5'	236.5'
TOP OF BERM ELEVATION	238'	238'
25-YR HWL	236.5'	236.5'
OUTLET PIPE SIZE	15"	15"
OUTLET RISER PIPE SIZE	15"	15"
OUTLET PIPE LENGTH	66 LF	53 LF

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USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Construction Details

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NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C402

ACCESS DRIVE DESIGN PARAMETERS

1. THE DRIVE HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE DRIVE DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
2. DRIVE MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY.
3. DRIVE SECTION AND SPECIFICATION SHOWN ON THE PLANS ARE BASED ON RECOMMENDATIONS FROM ECS MIDWEST, LLC.

PRODUCTS

1. ACCESS DRIVE AGGREGATE SHALL CONSIST OF CRUSHED GRADING "A" AND GRADING "B" AGGREGATE MEETING CTDOT SPEC M.02.06 AND THE GRADATION PROVIDED IN TABLE 1A.
2. CULVERTS: SEE PLAN FOR DRAINAGE CULVERT LOCATIONS. ACCESS DRIVE CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION AND/OR TOLLAND COUNTY, CT. ALL MANUFACTURED OF CORRUGATED METAL PIPE OR APPROVED EQUAL.
3. GEOTEXTILE FABRIC FOR ACCESS DRIVES SHALL BE MIRAFI HP270 OR APPROVED EQUAL.
4. EXCAVATED SOILS THROUGHOUT PROJECT MAY BE USED AS STRUCTURAL FILL OR THIN SPREAD ON THE PROJECT PROPERTY. STRUCTURAL FILL SHALL BE CLEAN OF FROZEN MATERIAL, DEBRIS AND ORGANIC MATERIAL.

EXECUTION

1. SITE PREPARATION

A. THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB AREAS DESIGNATED ON THE PLANS REMOVING ALL TREES, STUMPS, BRUSH AND DEBRIS. TREES AND BRUSH LOCATED OUTSIDE OF THE PROJECT FENCE SHALL NOT BE DISTURBED EXPECT WHERE NOTED ON THE PLANS. SEE SHEET C.300 FOR LOCATIONS OF TREE REMOVAL AND WHERE STUMPS SHALL BE REMOVED OR REMAIN.
B. AREAS THAT ARE NOT TO BE CLEARED AND GRUBBED SHALL HAVE ANY EXISTING VEGETATION MOWED TO A MAXIMUM HEIGHT OF 6 INCHES.
C. THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH SHALL BE DESIGNATED BY THE OWNERS REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED.
D. NO BURNING OF DEBRIS IS ALLOWED WITHOUT THE NECESSARY PERMITS FROM JURISDICTIONAL GOVERNING AUTHORITIES AND APPROVAL BY THE OWNER.

2. FILL MATERIALS AND PLACEMENT

A. ALL STRUCTURAL FILL MATERIALS SHALL BE INORGANIC SOILS FREE OF VEGETATION, DEBRIS, FROZEN SOIL, AND FRAGMENTS LARGER THAN THREE (3) INCHES IN SIZE. PEA GRAVEL OR OTHER SIMILAR NON-CEMENTITIOUS, POORLY-GRADED MATERIALS SHALL NOT BE USED AS FILL OR BACKFILL WITHOUT THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
B. CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS STRUCTURAL FILL MATERIAL FOR SITE GRADING IN ARRAY AREAS AND BELOW ACCESS ROADS. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8".
C. ANY IMPORTED SOILS MUST HAVE EXPANSION INDEX VALUES IN THE "VERY LOW" RANGE AND MEET THE GRADATION PROVIDED IN TABLE 4.

ACCESS DRIVE CONSTRUCTION AND SITE GRADING

1. TOPSOIL MANAGEMENT

A. TOPSOIL SHALL BE STRIPPED FROM ALL DRIVEWAY AREAS A MINIMUM OF 10" OR WHERE THE ROOT ZONE EXTENDS TO A DEEPER DEPTH. TOPSOIL STRIPPING SHALL OCCUR FOR ANY AREAS WHERE FILL WILL BE PLACED.
B. STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHALL BE STOCKPILED ON THE SITE. STOCKPILES WITHIN THE SITE SHALL HAVE TEMPORARY EROSION AND SEDIMENT CONTROL APPLIED IN ACCORDANCE WITH THE PROJECT SWPPP OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. IF IT IS NECESSARY TO DISPOSE OF ORGANIC MATERIALS ON-SITE THEY SHALL BE PLACED IN NON-STRUCTURAL AREAS.

2. INTERNAL DRIVE EMBANKMENT

A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF PLACING SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE AS INDICATED ON CIVIL PLANS. GENERALLY, THE INTERNAL DRIVE EMBANKMENT SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FEET HORIZONTAL AND ONE FOOT VERTICAL.
B. THE STRUCTURAL FILL FOR EMBANKMENT CONSTRUCTION SHALL BE GENERATED ON SITE BY THE CONTRACTOR FROM THE IDENTIFIED BORROW AREA, IF APPLICABLE. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8".
C. ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS.
D. EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION. SEE TABLE 2 FOR TESTING REQUIREMENTS AND TABLE 3 FOR COMPACTION REQUIREMENTS.

3. SITE GRADING

A. SUBSEQUENT TO THE SURFACE CLEARING, GRUB AND REMOVE TOPSOIL IN ALL GRADING AREAS ON THE PLAN, THE SUBSURFACE SOILS SHALL HAVE THE GRADES AND ELEVATIONS MODIFIED AS SHOWN ON THE PLANS. THE PROPOSED CONTOURS AND ELEVATIONS SHOWN ON THE PLANS ARE TO FINISHED GRADE. TOPSOIL SHALL BE STOCKPILED ON-SITE TO BE REPLACED ON THE TOP 6" OF FINISHED GRADES AND BASIN AREAS.
B. SUBSURFACE SOILS SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3.
C. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING.

3. SUBGRADE PREPARATION

A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING, TOPSOIL REMOVAL AND EMBANKMENT CONSTRUCTION, THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF TWELVE (12) INCHES, MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3. THE COMPACTED EXPOSED SUBGRADES SHALL BE PROOF ROLLED AND OBSERVED BY A GEOTECHNICAL ENGINEER TO DETERMINE IF SOFT SOILS EXIST. IF SOFT SOILS EXIST THEY SHALL BE SCARIFIED AND ALLOWED TO DRY, RECOMPACTED AND TESTED AGAIN, IF THEY CONTINUE TO REMAIN SOFT, FOLLOWING SCARIFICATION, DRYING AND RECOMPACTION EFFORTS ADDITIONAL AGGREGATE MAY BE ADDED FOR STABILITY.
B. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING AND DRIVEWAY AREAS.

4. AGGREGATE PLACEMENT

A. ACCESS DRIVES - SUBSEQUENT TO THE SUBGRADE PREPARATION THE DRIVE AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 3.
B. CLASS II RIP-RAP - AT STORMWATER BASIN, RIP-RAP QUALITY SHALL COMPLY WITH CTDOT SPECIFICATIONS 7.03 AND M.12.02, AND THE GRADATION IDENTIFIED IN TABLE 1B.

5. TOPSOIL REDISTRIBUTION AND STABILIZATION

A. FOLLOWING THE PLACEMENT OF THE AGGREGATE BASE AND APPROVAL OF THE TESTING, TOPSOIL SHALL BE DISTRIBUTED IN THE AREAS INDICATED ON SHEET C. 300.
B. FOLLOWING SITE GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS. THE TOP 6" OF FINISHED GRADE IN AREAS TO BE SEEDED (INCLUDING PERMANENT STORMWATER BASINS) SHALL CONSIST OF TOPSOIL.
C. THE TOPSOIL SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE PROJECT SWPPP.

TABLE 1A: CTDOT TRAFFIC BOUND GRAVEL SURFACE, CTDOT SPECS M.02.03 AND M.02.06

	GRADING A	GRADING C
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING
3 1/2"	100	-
1 1/2"	55 - 100	100
3/4"	-	45 - 80
1/4"	25 - 60	25 - 60
#10	15 - 45	15 - 45
#40	5 - 25	5 - 25
#100	0 - 10	0 - 10
#200	0 - 5	0 - 5

TABLE 1B: CTDOT MODIFIED RIPRAP, CTDOT SPEC M.12.02

STONE SIZE	PERCENT OF WEIGHT
10"	0
6" - 10"	20 - 50
4" - 6"	30 - 60
2" - 4"	30 - 40
1" - 2"	10 - 20
< 1"	0 - 10

TABLE 4: CTDOT SUBBASE, CTDOT SPEC M.02.02 AND M.02.06

	GRADING B
SIEVE SIZE	PERCENT PASSING
5"	100
3 1/2"	90 - 100
1 1/2"	55 - 90
1/4"	25 - 60
#10	15 - 45
#40	5 - 25
#100	0 - 10
#200	0 - 5

TRAFFIC CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY/COUNTY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE CONNECTICUT TRAFFIC CONTROL SIGNAL DESIGN MANUAL.

GENERAL NOTES:

1. CONSTRUCTION PLANS ARE BASED OFF THE NSRS 2011 CONNECTICUT STATE PLANE ZONE COORDINATE SYSTEM, US FOOT.
2. THE ALTA SURVEY AND EXISTING PLANIMETRIC DATA WAS PROVIDED BY WESTWOOD PROFESSIONAL SERVICES.
3. ALL DIMENSIONS ARE TO PROJECT BOUNDARY, EDGE OF GRAVEL, FENCE LINES AND SOLAR PANELS UNLESS OTHERWISE NOTED.
4. THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON A LIDAR DATA. CONTRACTOR (AND ITS SUBCONTRACTORS) WILL NOTIFY THE ENGINEER AND OWNER OF DISCREPANCIES FOUND BETWEEN THE LIDAR SURVEY AND THE ACTUAL FIELD CONDITIONS.
5. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
6. THE CONTRACTOR SHALL NOTIFY CALL BEFORE YOU DIG (811 ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
7. ELECTRONIC FILES ARE AVAILABLE FROM WESTWOOD PROFESSIONAL SERVICES FOR CONSTRUCTION OPERATIONS.
8. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY FEATURES AND FACILITIES (INCLUDING DRAIN TILE) FOUND DURING CONSTRUCTION.

EROSION AND SEDIMENT CONTROL / STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

1. PROJECT SWPPP PREPARED BY WESTWOOD.
2. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE CONNECTICUIT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (DEEP) AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL CONDITIONS OF THE GENERAL PERMIT SHALL APPLY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY ON SITE.
4. ALL EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED.
5. ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY DRIVE SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPPP PLAN.

EASTERN BOX TURTLE NOTES:

1. EXCLUSIONARY PRACTICES WILL BE REQUIRED TO PREVENT ANY TURTLE ACCESS INTO CONSTRUCTION AREAS. THESE MEASURES WILL NEED TO BE INSTALLED AT THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS.
2. EXCLUSIONARY FENCING WILL BE AT LEAST 20 INCHES TALL AND MUST BE SECURED TO AND REMAIN IN CONTACT WITH THE GROUND AND BE REGULARLY MAINTAINED (AT LEAST BI-WEEKLY AND AFTER MAJOR WEATHER EVENTS) TO SECURE ANY GAPS OR OPENINGS AT GROUND LEVEL THAT MAY LET ANIMALS PASS THROUGH.
3. PRIOR TO CONSTRUCTION, ALL TURTLES OCCURRING WITHIN FENCING WORK AREA WILL BE RELOCATED TO SUITABLE HABITAT OUTSIDE DISTURBANCE AREA. THIS SHOULD BE PERFORMED BY A QUALIFIED PROFESSIONAL FAMILIAR WITH HABITAT REQUIREMENTS AND THE BEHAVIOR OF THE SPECIES.
4. THE CONTRACTOR MUST SEARCH THE WORK AREA EACH MORNING PRIOR TO ANY WORK BEING DONE.
5. ALL CONSTRUCTION PERSONNEL WORKING WITHIN THE TURTLE HABITAT MUST BE APPRISED OF THE SPECIES DESCRIPTION AND THE POSSIBLE PRESENCE OF A LISTED SPECIES.
6. ANY TURTLES ENCOUNTERED WITHIN THE IMMEDIATE WORK AREA SHALL BE CAREFULLY MOVED TO AN ADJACENT AREA OUTSIDE OF THE EXCLUDED AREA AND FENCING SHOULD BE INSPECTED TO IDENTIFY AND REMOVE ACCESS POINT. THESE ANIMALS ARE PROTECTED BY LAW AND NO TURTLES SHOULD BE RELOCATED FROM THE SITE.
7. IN AREAS WHERE SILT FENCE IS USED FOR EXCLUSION, IT SHALL BE REMOVED AS SOON AS THE AREA IS STABLE TO ALLOW FOR REPTILE AND AMPHIBIAN PASSAGE TO RESUME.

Westwood

Phone (608) 821-6600
12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343
westwoodps.com

Westwood Surveying and Engineering, P.C.

PREPARED FOR:

US SOLAR

100 N 6th St. #410B
Minneapolis, MN, 55403

REVISIONS:

#	DATE	COMMENT
A	11/18/22	Issued for CSC Petition
B	03/20/23	Issued for CSC Petition
C	05/17/23	Issued for CSC Petition
D	07/28/23	Issued for CSC Petition
E	11/01/23	Issued for CSC Petition

USS Somers Solar LLC

Tolland County, Town of Ellington, CT

Construction Notes

ISSUED FOR CSC PETITION
NOT FOR CONSTRUCTION

DATE: 11/01/2023

SHEET: C403

EXHIBIT E

Westwood

12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343

Main (952) 937-5150
Fax (952) 937-5822

westwoodps.com
(888) 937-5150

November 2, 2023

Re: USS Somers Solar – Connecticut Siting Council Noise Response

Westwood Project No.: R0028111.00

The Town of Ellington does not have a CT DEEP approved noise ordinance. Effective July 1, 2022, municipalities are not required to have CT DEEP approved ordinances but must comply with the noise limits presented within Regulations of the Connecticut State Agencies. The applicable limits for this Project are provided in Section 22a-69-3.5 *Noise Zone Standards*, which states a daytime limit of 61 dBA and nighttime limit of 51 dBA for noise emitted at Class C land and received at Class A land.

High level noise propagation calculations were completed in accordance with ISO 9613-2, assuming all project equipment is collocated to represent a worst-case scenario and determine a conservative setback distance for all noise generating equipment. The following additional assumptions were considered, per available equipment specifications and provided Project data:

- Project inverter model (9 units) is Solis-(125-255)K-EHV-5G-US; maximum noise level at any side of the unit is 68 dBA measured 1 m away.
- Project transformer (1 unit) will have a maximum noise level of 61 dBA (assumed measured at 10 m per NEMA testing standards).

Using the above assumptions, the cumulative sound power level of all equipment was determined to be 91 dBA. To comply with the nighttime limit of 51 dBA sound pressure level at receptors, all noise generating Project equipment must be located minimum 40 m from all Project property lines. Preliminary analysis of the provided site layout and aerial imagery suggests compliance, though confirmation of equipment locations is recommended.

An existing ambient noise level of 45 dBA was assumed in accordance with ANSI S12.9-2013 Part 3-Annex C. A worst case level of 51 dBA is projected at the property line of the Project, which would be an increase of 6 dB over the existing environment. However, this is a worst-case prediction assuming collocated equipment exactly 40 m from the property line. The Project layout will locate equipment dispersed throughout the Project area beyond this 40 m setback, resulting in an increase over existing that is expected to be negligible.

Sincerely,

WESTWOOD PROFESSIONAL SERVICES, INC.

Andrew Schad, INCE
Noise Control & Acoustics Team Lead
andrew.schad@westwoodps.com

Rae Goldman, INCE
Noise Control & Acoustics Specialist
rae.goldman@westwoodps.com

EXHIBIT F

US-Solar Somers Solar

Ellington, Connecticut

Seed Mix and Soils

November 2023

2885 Quail Road NE, Sauk Rapids MN 56379
16425 W. State Rt 90, Princeville, IL 61559

Response to questions from the permitting authority

Question 1: Referring to Petition pp. 9 and 15, is the soil at the site capable of supporting native meadow grass?

Answer: Yes, based on the information at hand it appears to be a good site for native grasses and forbs.

Question 2: Referring to Petition p. 9, how would mowing affect the Savannah sparrow (*passerculus sanwichensis*). Could mowing be done outside of the active season for the Savannah sparrow (i.e. between September 1 and March 31)?

Answer: During the establishment period (first 3 years) there will need to be mowing during the growing season to set back weeds and promote growth of the native species. Once established, the need for complete site mowing during the growing season should be minimal. Beyond the first 3 years, it is more likely that targeted or spot mowing/weed whipping will occur at times aimed at certain weed species in combination with targeted herbicide applications.

Seed Mix Considerations

The seed mix for Somers Solar has been custom designed based on a number of factors including the following:

1. SAT type solar panels
2. 42” ground clearance of the panels at max tilt
3. 100% locally native plant species with wildlife (including the Savannah sparrow) and pollinators taken into consideration
4. Sandy and gravely soils that are well drained as shown in the following maps from NRCS Web Soil Survey
5. Ability to establish a long lasting and stable plant community to help reduce long term maintenance costs

Somers Solar Native Pollinator Custom Seed Mix

Created by Natural Resource Services,
11/02/2023.
Seeding Rate: 10 PLS lbs/acre

Botanical Name	Common Name	Class	Rate**	% by weight	seeds / sq ft	% by seeds / sq ft
Achillea millefolium	Common Yarrow	Forb	1	0.62%	4.02	2.92%
Allium cernuum	Nodding Onion	Forb	1.5	0.94%	0.26	0.19%
Aquilegia canadensis	Eastern Columbine	Forb	1.75	1.09%	1.53	1.11%
Asclepias tuberosa	Butterfly Milkweed	Forb	2	1.25%	0.20	0.14%
Aster spectabilis	Showy Aster	Forb	0.5	0.31%	0.59	0.43%
Aster pilosus	Heath Aster	Forb	0.5	0.31%	2.30	1.67%
Baptisia tinctoria	Yellow False Indigo	Forb	0.5	0.31%	0.06	0.05%
Chamaecrista fasciculata	Partridge Pea	Forb	6	3.75%	0.37	0.27%
Chamaecrista nictitans	Sensitive Pea	Forb	6	3.75%	0.71	0.52%
Coreopsis lanceolata	Lanceleaf Coreopsis	Forb	2	1.25%	0.63	0.46%
Hypericum punctatum	Spotted St. Johnswort	Forb	0.5	0.31%	6.66	4.83%
Lespedeza frutescens	Shrubby Bushclover	Forb	1	0.62%	0.18	0.13%
Lespedeza virginica	Slender Lespedeza	Forb	1	0.62%	0.18	0.13%
Ludwigia alternifolia	Seedbox	Forb	0.25	0.16%	7.46	5.42%
Monarda punctata	Spotted Beebalm	Forb	1	0.62%	2.34	1.70%
Pycnanthemum tenuifolium	Narrowleaf Mountainmint	Forb	0.5	0.31%	0.14	0.11%
Rudbeckia hirta	Blackeyed Susan	Forb	3	1.87%	6.34	4.60%
Sisyrinchium angustifolium	Narrowleaf Blue Eyed Grass	Forb	0.5	0.31%	0.33	0.24%
Solidago bicolor	White Goldenrod	Forb	0.25	0.16%	9.46	6.87%
Solidago nemoralis	Gray Goldenrod	Forb	1	0.62%	6.89	5.00%
Tradescantia ohiensis	Ohio Spiderwort	Forb	1.5	0.94%	0.28	0.20%
Zizia aurea	Golden Alexanders	Forb	3	1.87%	0.76	0.55%
Bouteloua curtipendula	Sideoats Grama	Graminoid	4	39.99%	8.82	6.40%
Carex vulpinoidea	Fox Sedge	Graminoid	0.05	0.50%	2.08	1.51%
Elymus villosus	Silky Wild Rye	Graminoid	0.5	5.00%	1.29	0.93%
Elymus virginicus	Virginia Wild Rye	Graminoid	0.35	3.50%	0.54	0.39%
Ergrostis spectabilis	Purple lovegrass	Graminoid	0.25	2.50%	25.71	18.67%
Juncus tenuis	Path Rush	Graminoid	0.05	0.50%	33.29	24.17%
Schizachurium scoparium	Little Bluestem	Graminoid	2.6	25.99%	14.33	10.40%

** forbs in oz, graminoid in lbs

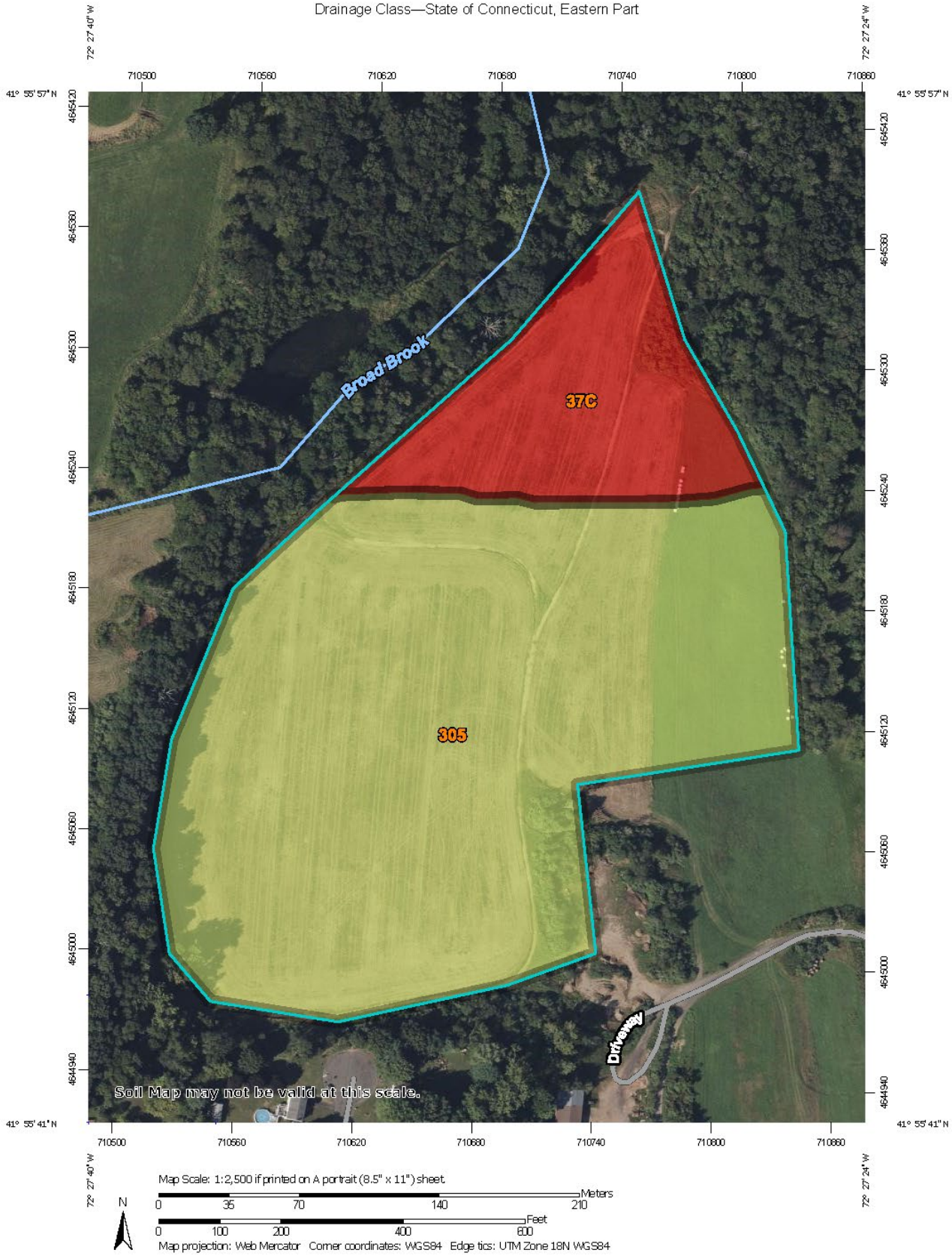
		% by weight	seeds / sq ft	% by seeds / sq ft
Grass total (lbs)	7.80	77.98%	86.04	62.47%
Forb Total (lbs)	2.20	22.02%	51.68	37.53%
Mix total (lbs)	**10.00**	**100.00%**	**137.72**	**100.00%**

Sub List		
Pycnanthemum virginianum	Virginia Mountain mint	Forb
Tradescantia virginiana	Virginia Spiderwort	Forb
Eurybia macrophyllus	Bigleaf Aster	Forb
Solidago speciosa	Showy Goldenrod	Forb
Aster laevis	Smooth Blue Aster	Forb

2885 Quail Road NE, Sauk Rapids MN 56379
16425 W. State Rt 90, Princeville, IL 61559

Natural Resource Services

Drainage Class—State of Connecticut, Eastern Part



Map Scale: 1:2,500 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

2885 Quail Road NE, Sauk Rapids MN 56379
16425 W. State Rt 90, Princeville, IL 61559

Natural Resource Services

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Soil Rating Lines
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Soil Rating Points
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut, Eastern Part
Survey Area Data: Version 1, Sep 15, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Drainage Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
37C	Manchester gravelly sandy loam, 3 to 15 percent slopes	Excessively drained	3.8	19.7%
305	Udorthents-Pits complex, gravelly	Moderately well drained	15.4	80.3%
Totals for Area of Interest			**19.2**	**100.0%**

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

EXHIBIT G

ENVIRONMENTAL RESOURCES PROTECTION MEASURES

USS Somers Solar LLC Project

Tolland County, Connecticut

NOVEMBER 8, 2023

PREPARED FOR:

US SOLAR

PREPARED BY:

Westwood Surveying & Engineering

ww-pc.com

November 8, 2023

Dan Csaplar
United States Solar Corporation
100 N 6th Street, Suite 410b
Minneapolis, MN 55403

Re: Environmental Resource Protection Measures for USS Somers Solar, LLC Project, Tolland County, Connecticut
File R00281110.00

Dear Dan:

At United States Solar (USS)'s request, Westwood Surveying and Engineering, P.C. (Westwood) has reviewed the United States Fish and Wildlife (USFWS) Information for Planning and Consultation (IPaC) and Connecticut's Department of Energy and Environmental Protection (CT DEEP) Natural Diversity Database (NDDB) to evaluate the environmental resource protection measures for USS Somers Solar LLC Project located in Tolland County, Connecticut.

As a result of the Project's location in the vicinity of sensitive species, the following Best Management Practices (BMPs) shall be implemented by the Contractor to avoid impacts.

It is of the utmost importance that the Contractor complies with the requirement for implementation of these protective measures and the education of its employees and subcontractors performing work on the Project site. These species protection measures shall be implemented and maintained throughout the duration of construction activities.

The Savannah Sparrow (*Passerculus sandwichensis*), State Species of Special Concern, is afforded protection under the Connecticut Endangered Species Act and is known to occur within the vicinity of the Project. The Savannah Sparrow protection measures included herein satisfy the requirements from the CT DEEP Wildlife Division in accordance with their NDDB determination letter (#202303931) dated May 12, 2023; this determination is valid until May 12, 2025, provided the scope of the Project has not changed and work has begun on the Project prior to the expiration date.

It is recommended that work within suitable habitat be avoided from April 1 – August 30, when the Savannah Sparrow is most sensitive to disturbance. Traffic and construction in suitable habitat should be avoided during this timeframe. This species will benefit from protection and management of large patches of grassland of 10 acres or greater. Land disturbance activities including digging, ground clearing, heavy machinery driving staging, or trampling that will occur more than 100 feet into or cut across in a way that fragments large parcels of grassland habitat should be done when grassland birds are not breeding; breeding primarily takes place between April 15 – August 15. Conducting land disturbance activities outside of the breeding season will avoid impact to individuals.

CT DEEP recommends the following to increase the value of habitat for wildlife and state listed species within the Project Area:

- Create a site management plan to promote native vegetation growth in the area under the solar panels. Restoring native vegetation will attract pollinators and avoid the need for constant mowing.
- Provide habitat for wildlife and allow for connectivity for wildlife movement. Use wildlife-friendly fencing to allow movement through the solar development.

USS plans on planting native vegetation with a low growing seed mix (approximately 17.2 acres) compatible with solar arrays; planting outside the array area will include a pollinator friendly seed mix (approximately 1.6 acres).

This Project program consists of several components; education of all contractors and sub-contractors prior to initiation of work on the site; protective measures; periodic inspection of the construction Project; and reporting.

1. **Isolation Measures and Sedimentation and Erosion Control**
    a. The extent of the sedimentation and erosion controls will be as shown on the site plans. The Contractor shall have additional sedimentation and erosion controls stockpiled on site should field or construction conditions warrant extending the controls as directed by USS or other regulatory agencies.

    b. No equipment, vehicles or construction materials shall be stored outside of the sedimentation and erosion controls within 100 feet of wetlands or watercourses.

    c. All sedimentation and erosion controls shall be removed within 30 days of completion of work and permanent stabilization of site soils so that reptile and amphibian movement between uplands and wetlands is not restricted.

2. **Contractor Education**
    a. Prior to work on site, the Contractor shall attend an educational session at the pre-construction meeting with USS. This orientation and educational session will consist of an introductory meeting with USS providing photos of Savannah Sparrows and the importance of protecting these animals if they are encountered and the need to follow Protective Measures as described in **Section 4** below. Workers will also be provided information regarding the identification of other turtles, snakes and common herpetofauna species that could be encountered. The importance of protecting nearby wetland resources will be stressed as part of this educational session.

    b. The education session will also focus on means to discriminate between the species of concern and other native species to avoid unnecessary “false alarms”. Encounters with any species of turtles or snakes will be documented.

c. The Contractor will be provided with cell phone and email contacts for USS personnel to immediately report any encounters with Savannah Sparrows or other species. Educational poster materials will be provided by USS and displayed on the job site to maintain worker awareness as the project progresses.

d. If a Savannah Sparrow is encountered during construction, the Contractor shall immediately cease all work, avoid disturbance of the animal and contact USS.

3. Herbicide and Pesticide Restrictions

a. The use of herbicides and pesticides shall be avoided when possible. In the event herbicides and/or pesticides are required at the facility, their use will be used in accordance with Integrated Pest Management ("IPM") principles with particular attention to minimize applications within 100 feet of wetland or watercourse resources. No applications of herbicides or pesticides are allowed within actual wetland or watercourse resources.

4. Savannah Sparrow Protective Measures

a. Restrict activities, to the extent possible, outside of the Savannah Sparrow breeding season (April 15 – August 15); avoid land clearing activities from April 1 – August 30 when the Savannah Sparrow is most sensitive to disturbance.

5. Reporting

a. Any observations of Savannah Sparrow or any other rare species will be reported to CT DEEP by USS on the appropriate special animal reporting form, with photo-documentation (if possible) and specific information on the location and disposition of the animal.

Sincerely,

WESTWOOD SURVEYING AND ENGINEERING, P.C.

EXHIBIT H

230920340938

中国认可
检测
TESTING
CNAS L0599

TEST REPORT

CLIENT DETAILS

Contact	-
Client	JINKO SOLAR CO.,LTD
Address	CHINA
Telephone	-
Facsimile	-
Email	-
Order Number	-
Samples	Solid waste(1)
Project	-

LABORATORY DETAILS

Manager	SGS-CSTC
Laboratory	Environment Laboratory
Address	2/F, 3RD BUILDING NO. 889, YISHAN ROAD, XUHUI DISTRICT, SHANGHAI, CHINA
Telephone	+86 (21) 6140 2666-2002
Facsimile	+86 (21) 6115 2164
Email	REPORT.ENV @SGS.COM
Report Number	SHE23-04901 R1
SGS Reference	0000283215
Date Reported	2023/08/31
Analysis Date	2023/08/21 - 2023/08/31

COMMENTS

1.The results apply to the sample(s) as received.
2.The report is translated from SHE23-04901 R0.

SIGNATORIES

Reported by	Reviewed by	Approved by
窦卓文	刘真	唐聚珍

检验检测专用章
Inspection & Testing Services

3rd Building, No.889 Yishan Road, Xuhui District, Shanghai, China 200233 t (86-21) 61072828 f (86-21) 61152164 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61072828 f (86-21) 61152164 e sgs.china@sgs.com

声明
Statement

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8. 如对本检测报告有异议，请在收到报告10天之内与本公司联系。

   Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

符号表/Legend

"-" 未测试该参数或不适用/The parameter is not tested or not applicable

↑ 提高检出限/Detection limit raised

↓ 降低检出限/Detection limit lowered

ND 未检出/Not Detected

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Parameter	Method	Units	MDL	Limit	Testing Results
Sample Number					23-04901.001
Sample Name					JKMxxxN-72HL4-BDV
Test Object					Solid waste
Sample Description					SHES2308015982TX
Receive Date					2023/08/21
Arsenic (As)	USEPA 200.8	mg/L	0.050	≤5	ND
Barium (Ba)	USEPA 200.8	mg/L	0.010	≤100	ND
Cadmium (Cd)	USEPA 200.8	mg/L	0.001	≤1	ND
Chromium (Cr)	USEPA 200.8	mg/L	0.010	≤5	ND
Lead (Pb)	USEPA 200.8	mg/L	0.010	≤5	**0.025**
Selenium (Se)	USEPA 200.8	mg/L	0.050	≤1	ND
Silver (Ag)	USEPA 200.8	mg/L	0.010	≤5	**0.053**
Mercury (Hg)	USEPA 7473	mg/L	0.005	≤0.2	ND
Benzene	USEPA 8260D	mg/L	0.0005	≤0.5	ND
Carbon tetrachloride	USEPA 8260D	mg/L	0.0005	≤0.5	ND
Chlorobenzene	USEPA 8260D	mg/L	0.0005	≤100	ND
Chloroform	USEPA 8260D	mg/L	0.0005	≤6	ND
1,4-Dichlorobenzene	USEPA 8260D	mg/L	0.0005	≤7.5	ND
1,2-Dichloroethane	USEPA 8260D	mg/L	0.0005	≤0.5	ND
1,1-Dichloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND
2-butanone(MEK)	USEPA 8260D	mg/L	0.020	≤200	ND
Tetrachloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND
Trichloroethene	USEPA 8260D	mg/L	0.0005	≤0.5	ND
Vinyl chloride	USEPA 8260D	mg/L	0.0005	≤0.2	ND
2-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND
3&4-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND
Methylphenol [1]	USEPA 8270E	mg/L	0.001	≤200	ND
2,4-Dinitrotoluene	USEPA 8270E	mg/L	0.0005	≤0.13	ND
Hexachlorobenzene	USEPA 8270E	mg/L	0.0005	≤0.13	ND
Hexachlorobutadiene	USEPA 8270E	mg/L	0.0005	≤0.5	ND
Hexachloroethane	USEPA 8270E	mg/L	0.0005	≤3	ND
Nitrobenzene	USEPA 8270E	mg/L	0.0005	≤2	ND
Pentachlorophenol	USEPA 8270E	mg/L	0.0025	≤100	ND
Pyridine	USEPA 8270E	mg/L	0.002	≤5.0	ND
2,4,5-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤400	ND
2,4,6-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤2	ND
Endrin	USEPA 8270E	mg/L	0.0005	≤0.02	ND
γ-BHC	USEPA 8270E	mg/L	0.0005	≤0.4	ND
Toxaphene	USEPA 8270E	mg/L	0.050	≤0.5	ND
α-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND
γ-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND
Chlordane(Total) [2]	USEPA 8270E	mg/L	0.001	≤0.03	ND
Methoxychlor	USEPA 8270E	mg/L	0.0005	≤10	ND
Heptachlor	USEPA 8270E	mg/L	0.0005	≤0.008	ND
2,4-D*	USEPA 8151A	mg/L	0.0005	≤10	ND
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A	mg/L	0.0005	≤1	ND

Remark:

1.Methylphenol are the sum of 2-Methylphenol and 3&4-Methylphenol.

2.Chlordane(Total) are the sum of α-Chlordane and γ-Chlordane.

3.Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)

4.The Limits comes from CFR(code of federal regulations) title 40 part 261.24.

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Method List

USEPA 200.8-1994 Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry
USEPA 7473-2007 Metals-Hg
USEPA 8260D-2018 VOCs
USEPA 8270E-2018 SVOCs
USEPA 8151A-1996 Acid Herbicides in Water by GC-MS

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Method:USEPA 200.8-1994

Equipment Name	Model	Equipment Number	Serial Number
ICP-MS	Agilent 7900	CHEM-998	JP16311502

Method:USEPA 7473-2007

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-958	16041979

Method:USEPA 8260D-2018

Equipment Name	Model	Equipment Number	Serial Number
PT-GC-MS	Atomx XYZ/7890B/5977A	CHEM-ENV091	CA20247008/CN13313013/US1330M207

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

Method:USEPA 8151A-1996

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent6890N/5973i	CHEM-126	US144004/CN10539052/US52411034

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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994					
Arsenic (As)	LB2330310	mg/L	0.050	<0.050	<0.050
Barium (Ba)	LB2330310	mg/L	0.010	<0.01	<0.010
Cadmium (Cd)	LB2330310	mg/L	0.001	<0.001	<0.001
Chromium (Cr)	LB2330310	mg/L	0.010	<0.01	<0.010
Lead (Pb)	LB2330310	mg/L	0.010	<0.01	<0.010
Selenium (Se)	LB2330310	mg/L	0.050	<0.05	<0.050
Silver (Ag)	LB2330310	mg/L	0.010	<0.010	<0.010
Metals-Hg Method: USEPA 7473-2007					
Mercury (Hg)	LB2329559	mg/L	0.005	<0.005	<0.005
Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996					
2,4-D	LB2330408	mg/L	0.0005	<0.0005	<0.0005
2,4,5-TP (Silvex, Fenopop)	LB2330408	mg/L	0.0005	<0.0005	<0.0005
VOCs Method: USEPA 8260D-2018					
Benzene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Carbon tetrachloride	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Chlorobenzene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Chloroform	LB2330280	mg/L	0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
1,2-Dichloroethane	LB2330280	mg/L	0.0005	<0.0005	<0.0005
1,1-Dichloroethene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
2-butanone(MEK)	LB2330280	mg/L	0.020	<0.020	<0.020
Tetrachloroethene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Trichloroethene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Vinyl chloride	LB2330280	mg/L	0.0005	<0.0005	<0.0005
SVOCs Method: USEPA 8270E-2018					
2-Methylphenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
3&4-Methylphenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
2,4-Dinitrotoluene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobenzene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobutadiene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Hexachloroethane	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Nitrobenzene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Pentachlorophenol	LB2330237	mg/L	0.0025	<0.0025	<0.0025

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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
SVOCs Method: USEPA 8270E-2018 (continued)					
Pyridine	LB2330237	mg/L	0.002	<0.002	<0.002
2,4,5-Trichlorophenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
2,4,6-Trichlorophenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
SVOCs Method: USEPA 8270E-2018					
Endrin	LB2330238	mg/L	0.0005	<0.0005	<0.0005
γ-BHC	LB2330238	mg/L	0.0005	<0.0005	<0.0005
Toxaphene	LB2330238	mg/L	0.050	<0.050	<0.050
α-Chlordane	LB2330238	mg/L	0.0005	<0.0005	<0.0005
γ-Chlordane	LB2330238	mg/L	0.0005	<0.0005	<0.0005
Methoxychlor	LB2330238	mg/L	0.0005	<0.0005	<0.0005
Heptachlor	LB2330238	mg/L	0.0005	<0.0005	<0.0005

The evaluation of Method Blanks (MB): All results of MB on this batch are lower than method detection limits, which meet the acceptance criteria of lab quality control.

Laboratory Control Sample(LCS)

LCS Recovery%= Result*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range Lower	Control Range Upper
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994								
Arsenic (As)	LB2330310	mg/L	0.050	0.203	0.2	102	80%	120%
Barium (Ba)	LB2330310	mg/L	0.010	0.228	0.2	114	80%	120%
Cadmium (Cd)	LB2330310	mg/L	0.001	0.222	0.2	111	80%	120%
Chromium (Cr)	LB2330310	mg/L	0.010	0.215	0.2	108	80%	120%
Lead (Pb)	LB2330310	mg/L	0.010	0.204	0.2	102	80%	120%
Selenium (Se)	LB2330310	mg/L	0.050	0.173	0.2	86.5	80%	120%
Silver (Ag)	LB2330310	mg/L	0.010	0.222	0.2	111	80%	120%
Metals-Hg Method: USEPA 7473-2007								
Mercury (Hg)	LB2329559	mg/L	0.005	<0.005	0.001	92.2	80%	120%
Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996								
2,4-D	LB2330408	mg/L	0.0005	0.0008	0.001	75.0	70%	130%
2,4,5-TP (Silvex, Fenopop)	LB2330408	mg/L	0.0005	0.0007	0.001	72.0	70%	130%
VOCs Method: USEPA 8260D-2018								
Benzene	LB2330280	mg/L	0.0005	0.0218	0.02	109	70%	130%

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Laboratory Control Sample(LCS)

LCS Recovery%= Result*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recevory%	Control Range Lower	Control Range Upper
VOCs Method: USEPA 8260D-2018 (continued)								
Carbon tetrachloride	LB2330280	mg/L	0.0005	0.0175	0.02	87.7	70%	130%
Chlorobenzene	LB2330280	mg/L	0.0005	0.0205	0.02	103	70%	130%
Chloroform	LB2330280	mg/L	0.0005	0.0189	0.02	94.7	70%	130%
1,4-Dichlorobenzene	LB2330280	mg/L	0.0005	0.0189	0.02	94.6	70%	130%
1,2-Dichloroethane	LB2330280	mg/L	0.0005	0.0169	0.02	84.3	70%	130%
1,1-Dichloroethene	LB2330280	mg/L	0.0005	0.0170	0.02	85.0	70%	130%
2-butanone(MEK)	LB2330280	mg/L	0.020	<0.02	0.02	81.3	70%	130%
Tetrachloroethene	LB2330280	mg/L	0.0005	0.0223	0.02	111	70%	130%
Trichloroethene	LB2330280	mg/L	0.0005	0.0216	0.02	108	70%	130%
Vinyl chloride	LB2330280	mg/L	0.0005	0.0178	0.02	89.2	70%	130%
SVOCs Method: USEPA 8270E-2018								
2-Methylphenol	LB2330237	mg/L	0.0005	0.0044	0.005	88.0	30%	144%
3&4-Methylphenol	LB2330237	mg/L	0.0005	0.0090	0.01	89.6	30%	141%
2,4-Dinitrotoluene	LB2330237	mg/L	0.0005	0.0044	0.005	87.6	46%	140%
Hexachlorobenzene	LB2330237	mg/L	0.0005	0.0045	0.005	89.8	61%	127%
Hexachlorobutadiene	LB2330237	mg/L	0.0005	0.0042	0.005	83.8	10%	111%
Hexachloroethane	LB2330237	mg/L	0.0005	0.0045	0.005	89.8	38%	131%
Nitrobenzene	LB2330237	mg/L	0.0005	0.0040	0.005	79.0	25%	133%
Pentachlorophenol	LB2330237	mg/L	0.0025	0.0208	0.025	83.3	35%	130%
Pyridine	LB2330237	mg/L	0.002	0.004	0.005	77.0	10%	200%
2,4,5-Trichlorophenol	LB2330237	mg/L	0.0005	0.0038	0.005	76.4	40%	140%
2,4,6-Trichlorophenol	LB2330237	mg/L	0.0005	0.0040	0.005	79.6	40%	140%

The evaluation of recoveries for Laboratory Control Samples (LCS): All recoveries of LCS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994								
Arsenic (As)	SHE23-04901.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Barium (Ba)	SHE23-04901.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-

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Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994 (continued)								
Cadmium (Cd)	SHE23-04901.001	mg/L	0.001	<0.001	<0.001	0.0	≤20	-
Chromium (Cr)	SHE23-04901.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-
Lead (Pb)	SHE23-04901.001	mg/L	0.010	0.025	0.025	1.1	≤20	-
Selenium (Se)	SHE23-04901.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Silver (Ag)	SHE23-04901.001	mg/L	0.010	0.054	0.053	0.4	≤20	-
Metals-Hg Method: USEPA 7473-2007								
Mercury (Hg)	SHE23-04901.001	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
VOCs Method: USEPA 8260D-2018								
Benzene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Carbon tetrachloride	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chloroform	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,4-Dichlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,2-Dichloroethane	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,1-Dichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
2-butanone(MEK)	SHE23-04901.001	mg/L	0.020	<0.02	<0.02	0.0	≤30	-
Tetrachloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Trichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Vinyl chloride	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
SVOCs Method: USEPA 8270E-2018								
2-Methylphenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
3&4-Methylphenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4-Dinitrotoluene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobenzene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobutadiene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachloroethane	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Nitrobenzene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Pentachlorophenol	QCO23-00700.001	mg/L	0.0025	<0.0025	<0.0025	0.0	≤17.5	-
Pyridine	QCO23-00700.001	mg/L	0.002	<0.002	<0.002	0.0	≤17.5	-
2,4,5-Trichlorophenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4,6-Trichlorophenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
SVOCs Method: USEPA 8270E-2018								
Endrin	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
γ-BHC	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

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Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
SVOCs Method: USEPA 8270E-2018 (continued)								
Toxaphene	QCO23-00700.001	mg/L	0.050	<0.05	<0.05	0.0	≤17.5	-
α-Chlordane	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
γ-Chlordane	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Methoxychlor	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Heptachlor	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

The evaluation of Relative Deviation (RD) for Duplicates: All RD of duplicates on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Matrix Spike(MS)

MS Recovery%= (MS Result-Sample Result) *100/Spike Added (Related factor should be taken into consideration) .

Parameter	Sample ID	Unit	MDL	Sample Result	MS Result	Spike Added	Recevory%	Control Range Lower	Control Range Upper
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994									
Arsenic (As)	SHE23-04901.001	mg/L	0.050	<0.050	0.188	0.2	93.9	70%	130%
Barium (Ba)	SHE23-04901.001	mg/L	0.010	<0.010	0.220	0.2	106	70%	130%
Cadmium (Cd)	SHE23-04901.001	mg/L	0.001	<0.001	0.191	0.2	95.7	70%	130%
Chromium (Cr)	SHE23-04901.001	mg/L	0.010	<0.010	0.186	0.2	91.7	70%	130%
Lead (Pb)	SHE23-04901.001	mg/L	0.010	0.025	0.198	0.2	86.5	70%	130%
Selenium (Se)	SHE23-04901.001	mg/L	0.050	<0.050	0.244	0.2	122	70%	130%
Silver (Ag)	SHE23-04901.001	mg/L	0.010	0.053	0.236	0.2	91.5	70%	130%
VOCs Method: USEPA 8260D-2018									
Benzene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0227	0.02	114	50%	150%
Carbon tetrachloride	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0191	0.02	95.6	50%	150%
Chlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0200	0.02	99.8	50%	150%
Chloroform	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0183	0.02	91.4	50%	150%
1,4-Dichlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0190	0.02	94.8	50%	150%
1,2-Dichloroethane	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0188	0.02	93.8	50%	150%
1,1-Dichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0164	0.02	81.8	50%	150%
Tetrachloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0203	0.02	101	50%	150%
Trichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0203	0.02	101	50%	150%
Vinyl chloride	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0161	0.02	80.6	50%	150%

The evaluation of recoveries for Matrix Spiked (MS): All recoveries for MS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

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Matrix Spike Duplicate(MSD)

Relative deviation(RD)%=|MS Recovery% -MSD Recovery%|*100/(MS Recovery%+MSD Recovery%).

Parameter	Sample ID	Unit	MDL	MS Recovery%	MSD Recovery%	RD%	RD Control Range%	Sur Control Range
Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994								
Arsenic (As)	SHE23-04901.001	mg/L	0.050	93.9	88.2	3.1	≤20	-
Barium (Ba)	SHE23-04901.001	mg/L	0.010	106	109	1.5	≤20	-
Cadmium (Cd)	SHE23-04901.001	mg/L	0.001	95.7	92.6	1.6	≤20	-
Chromium (Cr)	SHE23-04901.001	mg/L	0.010	91.7	87.0	2.6	≤20	-
Lead (Pb)	SHE23-04901.001	mg/L	0.010	86.5	81.8	2.8	≤20	-
Selenium (Se)	SHE23-04901.001	mg/L	0.050	122	108	5.9	≤20	-
Silver (Ag)	SHE23-04901.001	mg/L	0.010	91.5	89.2	1.3	≤20	-
VOCs Method: USEPA 8260D-2018								
Benzene	SHE23-04901.001	mg/L	0.0005	114	126	5.3	≤30	-
Carbon tetrachloride	SHE23-04901.001	mg/L	0.0005	95.6	109	6.7	≤30	-
Chlorobenzene	SHE23-04901.001	mg/L	0.0005	99.8	113	6.3	≤30	-
Chloroform	SHE23-04901.001	mg/L	0.0005	91.4	99.9	4.4	≤30	-
1,4-Dichlorobenzene	SHE23-04901.001	mg/L	0.0005	94.8	108	6.3	≤30	-
1,2-Dichloroethane	SHE23-04901.001	mg/L	0.0005	93.8	99.4	2.9	≤30	-
1,1-Dichloroethene	SHE23-04901.001	mg/L	0.0005	81.8	76.0	3.7	≤30	-
Tetrachloroethene	SHE23-04901.001	mg/L	0.0005	101	120	8.3	≤30	-
Trichloroethene	SHE23-04901.001	mg/L	0.0005	101	116	6.7	≤30	-
Vinyl chloride	SHE23-04901.001	mg/L	0.0005	80.6	94.2	7.8	≤30	-

The evaluation of Matrix Spiked Duplicates (MSD): All recoveries for MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control. All RD for MS and MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

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*** End of Report ***

3rd Building, No.889 Yishan Road, Xuhui District, Shanghai, China 200233 t (86-21) 61072828 f (86-21) 61152164 www.sgsgroup.com.cn
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EXHIBIT I

SEE SOLAR IN A NEW LIGHT

Operation and Maintenance Plan

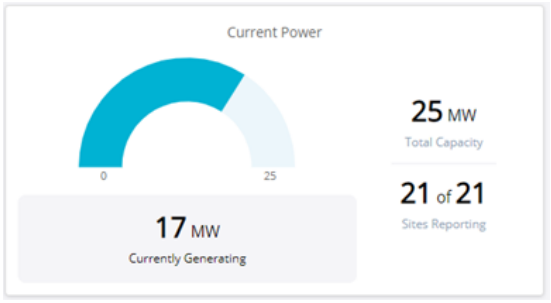
USS Somers Solar LLC

November 1, 2023

DESCRIPTION OF O&M AND GUARANTEES

OPERATIONS & MAINTENANCE PLAN

US Solar will provide O&M services for an initial period of time, as decided upon by all parties. US Solar owns and operates dozens of projects of similarly-size and operation. Our team values safety and strictly enforces Best Management Practices to eliminate or minimize any such incidents. US Solar's team, alongside our O&M Contractor, will be responsible for constant monitoring of the system, performing regular system and vegetative maintenance, and any necessary unplanned maintenance or replacements.



SUMMARY OF OPERATIONS AND MAINTENANCE SERVICES

AC Collection System Maintenance:

- Exercise all breakers, disconnects, and switches in accordance with Manufacturer requirements. Including Switchboards, Panelboards, Transformer Disconnects, GOAB switches, Reclosers or other AC collection system OCPD.
- Infrared scan of terminations while energized. Check for hot spots.
- Clean all cabinets, inspect for pest intrusion, assure enclosures are tight and sealed.

Inverter Preventive Maintenance:

- Verification of proper fan operation on each inverter and checking/ cleaning the inverters heat sinks as needed.
- Clean air intake, vents, ducts, and replace air filters (if applicable).
- Check the inverter enclosure seals for damage; visually inspect condition of all inverter cables and connections.
- Other routine maintenance of inverter in accordance with inverter Manufacturer's guidelines.

Array Preventative Maintenance:

- Torque check any critical hardware connections with calibrated torque wrench. Assure racking system operates properly. Check for rusting or de-galvanization.
- Check any wiring not installed in raceway or conduit for abnormal wear or damage; i.e. color change, delamination, warping, loose attachments, damaged wiring or connectors.
- IV Curve trace or aerial scan all DC strings to verify no module/string level losses.
- Inspect, clean, or calibrate meters, sensors, and communications per manufacturer's guidelines.

Energy production analysis and reporting:

- Daily operation and performance monitoring: US Solar monitors the projects at all time. Our real-time monitoring aids in detecting and diagnosing any production anomalies, identifying and addressing underperformance issues, managing service teams and technicians, and contacting landowners and the utility if necessary.
- Monthly performance reports as provided by the DAS system.

Vegetative Maintenance and Facility Infrastructure:

- Regular mowing and weed abatement of vegetated areas to support healthy pollinator habitat.
- Inspection and repair of facility's roads, stormwater features (if applicable), signage, or fences if needed.

INDUSTRY LEADERSHIP IN POLLINATOR FRIENDLY SOLAR

US Solar implements exceptional pollinator-friendly native habitats on all our solar projects. Implementing pollinator-friendly native habitat will create acres of native habitat that benefits the surrounding community and the land itself. The native seed mixes are planted before, during, and after construction, as needed, and the area underneath the modules and between rows will be transformed into a low-growing meadow of diverse and deep-rooted pollinator-friendly plants. The native habitat supports monarch, bee, pheasant, and songbird populations.

Pollinator-friendly native habitat has the following characteristics:

- Improves soil health, water, and air quality
- Withstands harsh climate conditions
- Minimizes erosion and runoff
- Minimizes maintenance costs
- Provides habitat and food sources for wildlife
- Fosters vegetation diversity

Together with our trusted vendor network, US Solar has designed, installed and/or maintains over 1,000 acres of pollinator-friendly habitat under and around the community Solar Gardens that we have completed to date. US Solar is also an active member of the U.S. Department of Energy/National Renewable Energy Laboratory agri-voltaic (solar + agriculture) working group, which works to develop and quantify best practices around dual land use.

EXPECTED EQUIPMENT PERFORMANCE AND REPLACEMENT CYCLES

It is not anticipated that US Solar will need to replace significant components of the Project during the 20-year term. However, if replacement materials are required, US Solar will replace materials in a timely manner and will ensure that all quality and production standards are met.

LABOR ARRANGEMENTS

In addition to working with an industry-leading partner to construct the Project, US Solar partners with local labor to provide both planned and unplanned maintenance of our solar farms. On a regular basis, technicians will be sent out to perform routine maintenance on the site, in addition to any unplanned maintenance. During the first few years, maintenance personnel will visit the site a few extra times per year to maintain the native vegetation. The Project will be fenced, locked, and maintained appropriately.

COSTS AND FINANCING

Project lenders typically require that a portion of the anticipated maintenance costs be set aside in a cash reserve, but annual operating revenue after debt service, rent, taxes, and other operating expenses should leave an amount of net cash equal to several times projected annual operating expenses.

SPARE PARTS INVENTORY

US Solar will maintain an inventory of spare parts at a Third-Party Logistics warehouse in the vicinity of the Project. From here, we are able to dispatch necessary components to each project site for any replacement or retrofitting work. US Solar will maintain an inventory of modules, inverters, single axis tracker components, meters, and other electrical gear, including relays, sensors, and more.

EXHIBIT J

DECOMMISSIONING PLAN

When the Solar Garden reaches the end of its operational life, the component parts will be dismantled as described below. US Solar has a lease contract with the property owner, which requires us to decommission and restore the site at our expense. The decommissioning plan would commence at the end of the lease term or in the event of twelve (12) months of non-operation. At the time of decommissioning, the Solar Garden components will be dismantled and removed using minimal impact construction equipment, and materials will be safely recycled or disposed. USS Somers Solar LLC will be responsible for all the decommissioning costs.

REMOVAL PROCESS

The decommissioning of the Solar Garden proceeds in the following reverse order of the installation:

1. The solar system will be disconnected from the utility power grid
2. PV modules will be disconnected and removed
3. Electrical cables will be removed
4. PV module racking will be removed
5. PV module support posts will be removed
6. Electrical devices, including transformers and inverters, will be removed
7. Concrete pads will be removed
8. Fencing will be removed
9. Reclaim soils in the access driveway and equipment pad areas by removing imported aggregate material and concrete foundations; replace with soils as needed

All non-utility owned equipment, conduits, structures, fencing, and foundations to a depth of at least four feet below grade will be removed. Any cleared areas will be revegetated with appropriate plantings that are native to the region, unless requested in writing by the owner of the real estate to not revegetate due to plans for agricultural planting or other development subject to the Council's approval. All holes, depressions or divots resulting from the construction of the Solar Garden will be filled in. The Solar Garden site may be converted to other uses in accordance with applicable land use regulationsat the time of decommissioning. There are no permanent changes to the site, and it will be returned in terrific condition. This is one of the many great things about community solar gardens - if desired, the site can return to productive farmland after the system is removed.

By this signature, I confirm US Solar will conform to the conditions of this Decommissioning Plan and that it will be filed with the Connecticut Siting Council prior to the first operation of the solar project.

Dan Csaplar

Signature

Dan Csaplar

Printed Name

Project Developer

Title

EXHIBIT K

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2021-ANE-5690-OE

Issued Date: 09/11/2023

David Watts
US Solar
100 N 6th St, Suite 410B
Minneapolis, MN 55403

**** Extension ****

A Determination was issued by the Federal Aviation Administration (FAA) concerning:

Structure:	Utility Pole USS Somers Solar
Location:	Ellington, CT
Latitude:	41-55-42.84N NAD 83
Longitude:	72-27-21.25W
Heights:	284 feet site elevation (SE)
	38 feet above ground level (AGL)
	322 feet above mean sea level (AMSL)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 03/11/2025 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-ANE-5690-OE.

Signature Control No: 493414099-598950153 (EXT)
Stephanie Kimmel
Specialist

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2023-ANE-4544-OE

Issued Date: 08/17/2023

David Watts
US Solar
100 N 6th St, Suite 410B
Minneapolis, MN 55403

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Somers 5
Location:	Ellington, CT
Latitude:	41-55-43.42N NAD 83
Longitude:	72-27-29.61W
Heights:	242 feet site elevation (SE)
	12 feet above ground level (AGL)
	254 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 02/17/2025 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ANE-4544-OE.

Signature Control No: 594171441-596741857 (DNE)
Stephanie Kimmel
Specialist

Attachment(s)
Map(s)

Sectional Map for ASN 2023-ANE-4544-OE

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2023-ANE-4545-OE

Issued Date: 08/17/2023

David Watts
US Solar
100 N 6th St, Suite 410B
Minneapolis, MN 55403

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Somers 6
Location:	Ellington, CT
Latitude:	41-55-50.31N NAD 83
Longitude:	72-27-29.58W
Heights:	241 feet site elevation (SE) 12 feet above ground level (AGL) 253 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 02/17/2025 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ANE-4545-OE.

Signature Control No: 594171496-596741860 (DNE)
Stephanie Kimmel
Specialist

Attachment(s)
Map(s)

Sectional Map for ASN 2023-ANE-4545-OE

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2023-ANE-4546-OE

Issued Date: 08/17/2023

David Watts
US Solar
100 N 6th St, Suite 410B
Minneapolis, MN 55403

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Somers 7
Location:	Ellington, CT
Latitude:	41-55-50.53N NAD 83
Longitude:	72-27-25.85W
Heights:	245 feet site elevation (SE)
	12 feet above ground level (AGL)
	257 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 02/17/2025 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ANE-4546-OE.

Signature Control No: 594171680-596741861 (DNE)
Stephanie Kimmel
Specialist

Attachment(s)
Map(s)

Sectional Map for ASN 2023-ANE-4546-OE

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2021-ANE-5990-OE

Issued Date: 09/11/2023

David Watts
US Solar
100 N 6th St, Suite 410B
Minneapolis, MN 55403

**** Extension ****

A Determination was issued by the Federal Aviation Administration (FAA) concerning:

Structure:	Utility Pole Somers Pole 2
Location:	Ellington, CT
Latitude:	41-55-43.04N NAD 83
Longitude:	72-27-21.44W
Heights:	282 feet site elevation (SE)
	38 feet above ground level (AGL)
	320 feet above mean sea level (AMSL)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 03/11/2025 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

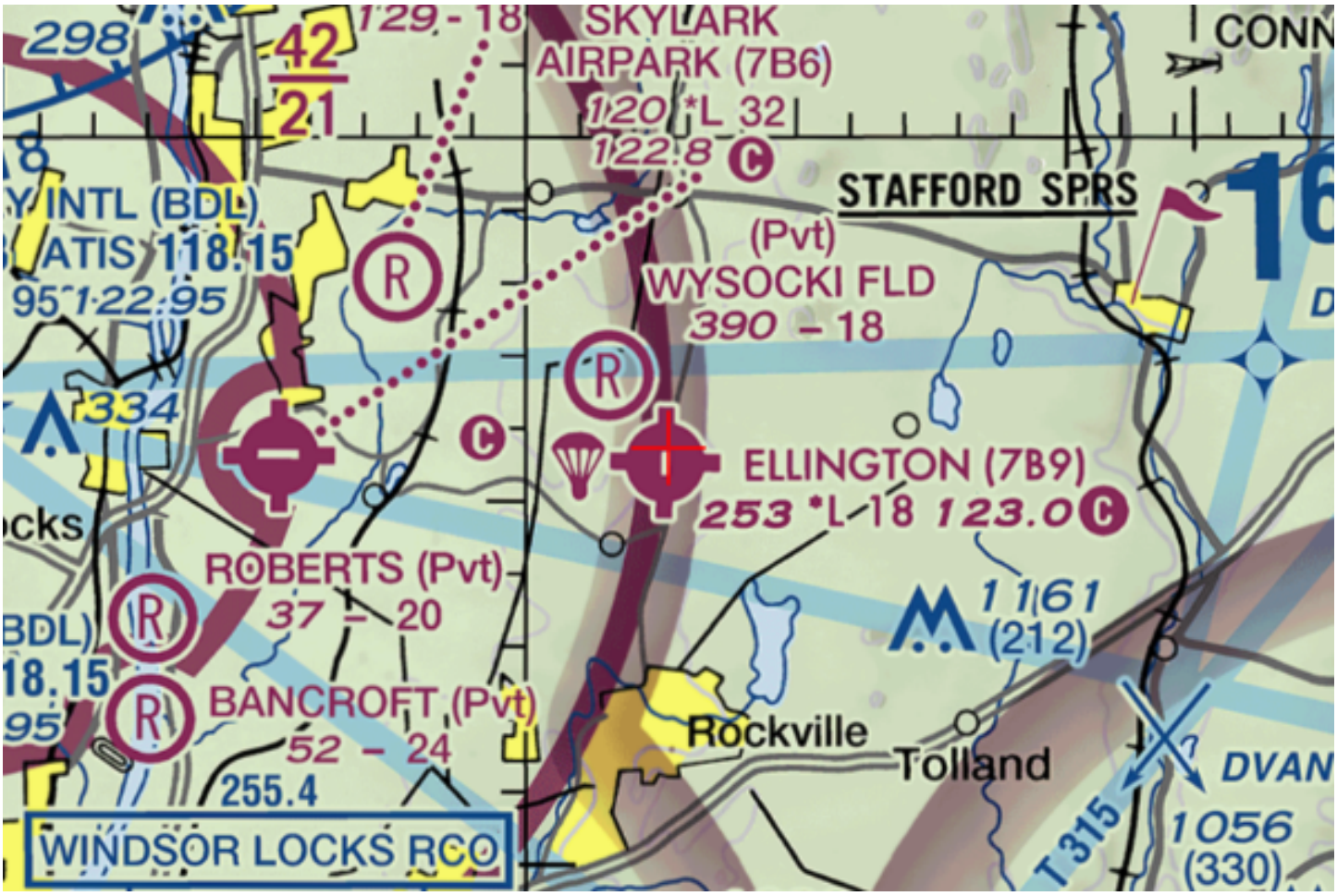
This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-ANE-5990-OE.

Signature Control No: 495277660-598950152 (EXT)
Stephanie Kimmel
Specialist

Attachment(s)
Map(s)

Sectional Map for ASN 2021-ANE-5990-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2021-ANE-5991-OE

Issued Date: 09/11/2023

David Watts
US Solar
100 N 6th St, Suite 410B
Minneapolis, MN 55403

**** Extension ****

A Determination was issued by the Federal Aviation Administration (FAA) concerning:

Structure:	Utility Pole Somers Pole 3
Location:	Ellington, CT
Latitude:	41-55-43.23N NAD 83
Longitude:	72-27-21.64W
Heights:	281 feet site elevation (SE)
	38 feet above ground level (AGL)
	319 feet above mean sea level (AMSL)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 03/11/2025 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

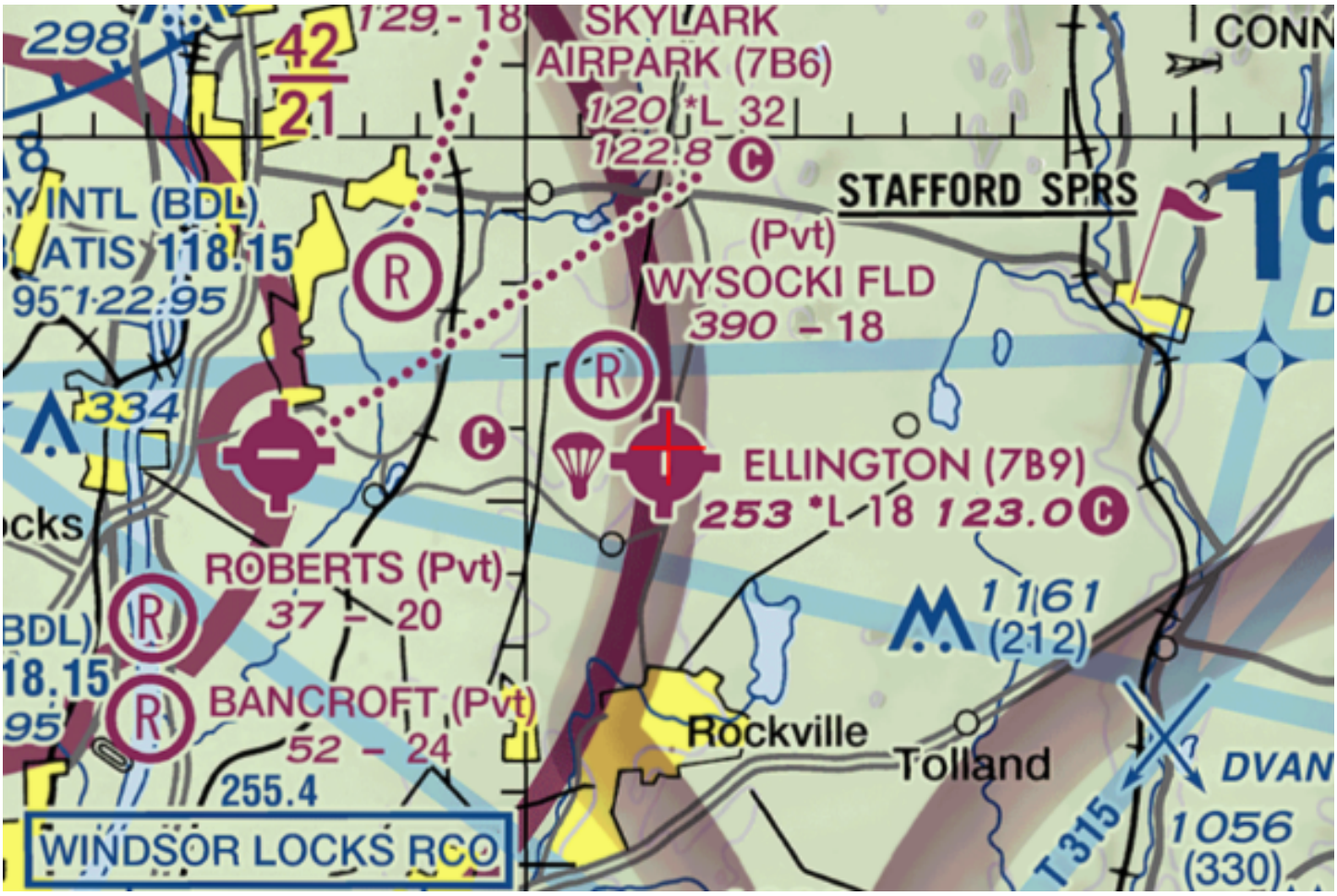
This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-ANE-5991-OE.

Signature Control No: 495278258-598950154 (EXT)
Stephanie Kimmel
Specialist

Attachment(s)
Map(s)

Sectional Map for ASN 2021-ANE-5991-OE



Attachment(s)
Map(s)

Sectional Map for ASN 2021-ANE-5690-OE