

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOCATION OF SITE:
160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN
NORFOLK COUNTY, MASSACHUSETTS
LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012,
237-36-37, 237-36, E 239-010, PORTION OF D 239-010, & 26-0009 (BELLINGHAM)

REFERENCES

EXISTING CONDITIONS SURVEY:
FELDMAN GEOSPATIAL
152 HAMPDEN STREET, BOSTON, MA 01608
DATE: 05/09/2022

AIR SURVEY:
FELDMAN GEOSPATIAL
152 HAMPDEN STREET, BOSTON, MA 01608
DATE: 08/05/2022

*THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS. HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS.

REVISIONS

REV	DATE	COMMENT	DESIGNED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	OCR
3	7/19/2023	PER SURVEY UPDATES	AP



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PROJECT No.: W201257
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CHECKED BY: GD
DATE: 04/13/2023
CAD L.D.: W201257-SPD-SA

PROJECT:

PROPOSED SITE PLAN DOCUMENTS
FOR
NEXTGRID MESCALBEAN LLC
PROPOSED SOLAR FARM
LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

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SHEET TITLE:

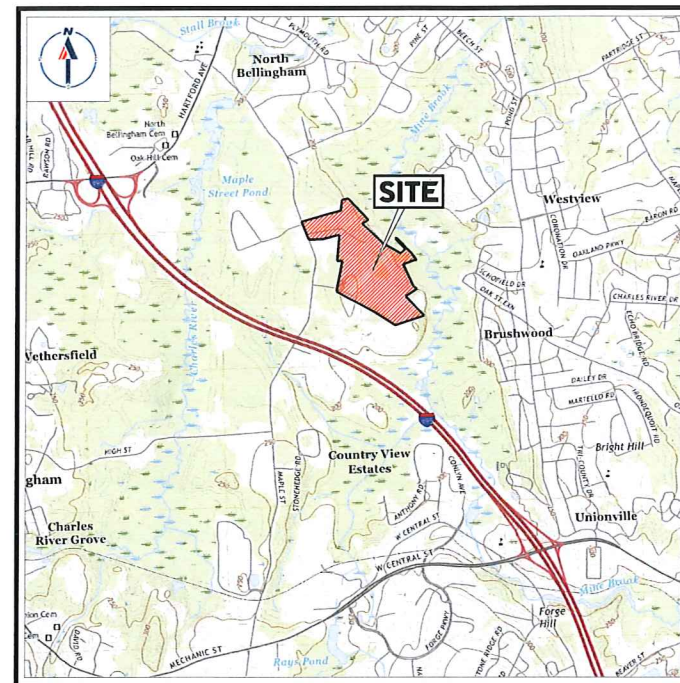
COVER SHEET

SHEET NUMBER:
C-101

REVISION 3 - 7/19/2023

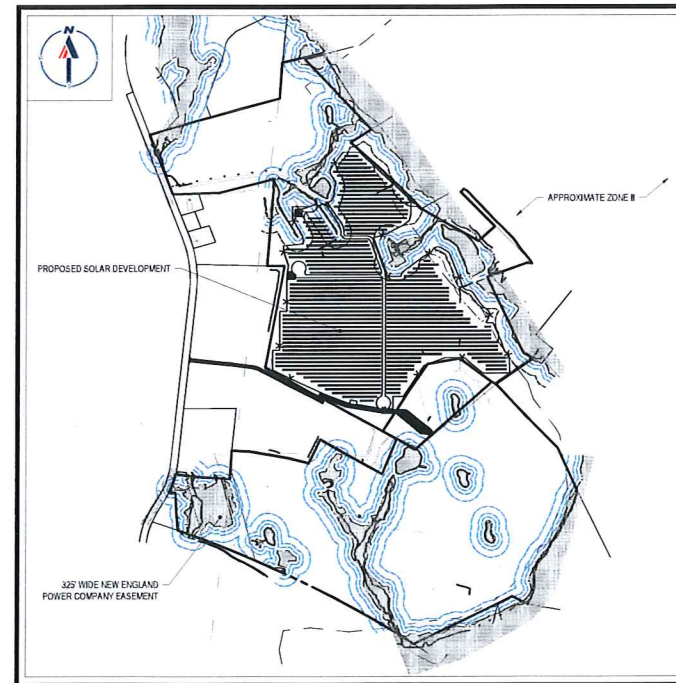
DRAWING SHEET INDEX

SHEET TITLE	SHEET NUMBER
COVER SHEET	C-101
GENERAL NOTES SHEET	C-102
OVERALL DEMOLITION PLAN	C-201
DEMOLITION PLAN (A-F)	C-202 - C-207
OVERALL SITE LAYOUT PLAN	C-301
SITE LAYOUT PLAN (A - F)	C-302 - C-307
OVERALL GRADING PLAN	C-401
GRADING PLAN (A - F)	C-402 - C-407
OVERALL EROSION & SEDIMENT CONTROL PLAN	C-601
EROSION & SEDIMENT CONTROL PLAN (A - F)	C-602 - C-607
EROSION & SEDIMENT CONTROL NOTES & DETAILS	C-608 - C-609
DETAIL SHEETS	C-901 - C-907
FIRE TRUCK CIRCULATION PLAN	1 OF 1
EXISTING CONDITIONS PLAN (BY FELDMAN GEOSPATIAL)	8 SHEETS



USGS MAP

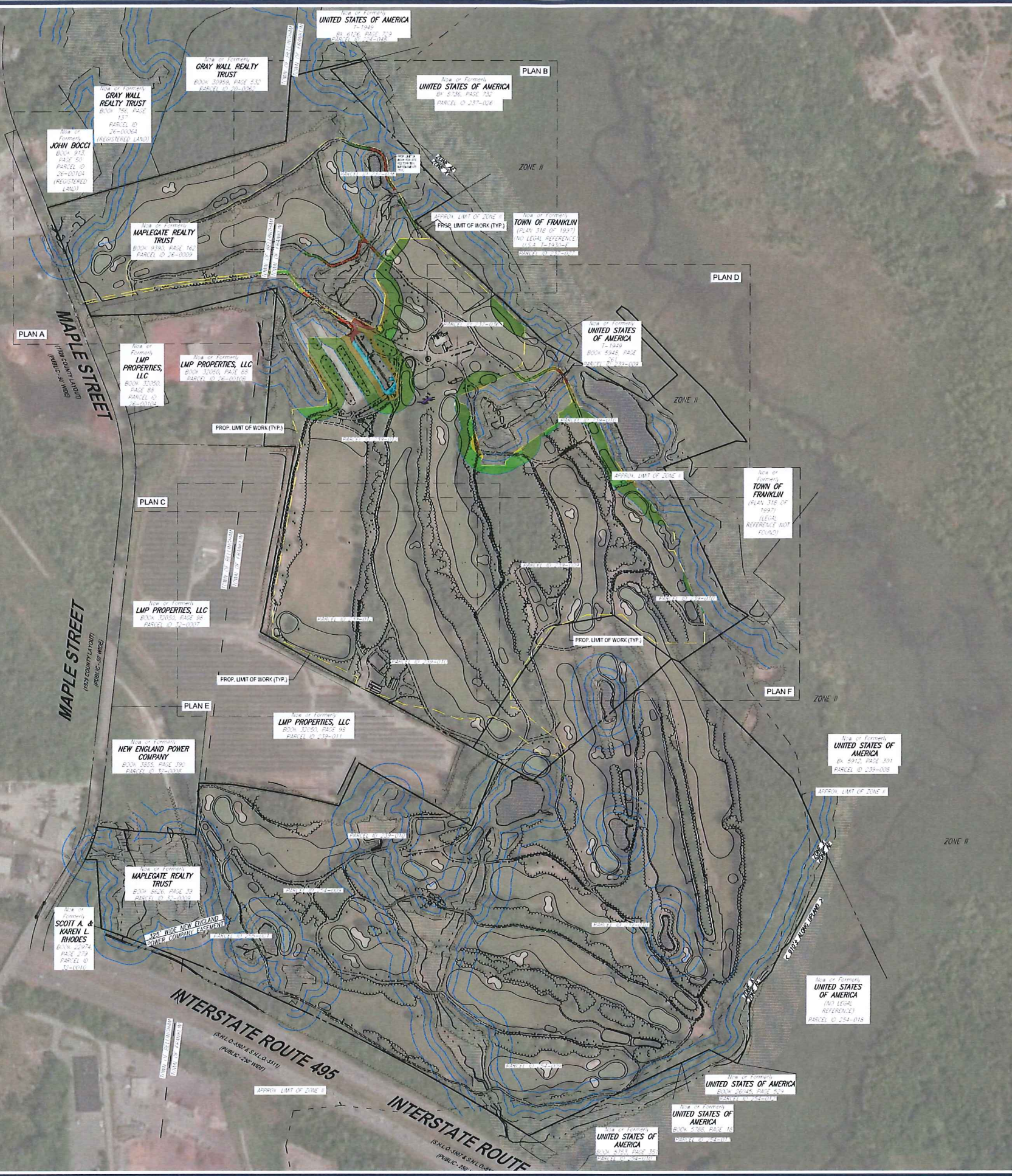
SCALE: 1" = 2,000'
SOURCE: FRANKLIN MASSACHUSETTS USGS QUADRANGLE



SITE MAP

SCALE: 1" = 600'
SOURCE: GOOGLE AERIAL

PREPARED BY



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SHEET TITLE:
OVERALL INDEX PLAN
 SHEET NUMBER:
C-201
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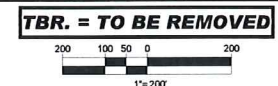
TOTAL BUFFER DISTURBANCE CHART

AREA	HATCH	DESCRIPTION
1,603a sf	[Red Hatch]	25' Proposed Buffer Disturbance
7,605a sf	[Dark Red Hatch]	25' Existing Buffer Disturbance
4,773a sf	[Yellow Hatch]	50' Proposed Buffer Disturbance
56,130a sf	[Olive Hatch]	50' Existing Buffer Disturbance
36,452a sf	[Light Green Hatch]	100' Proposed Buffer Disturbance
297,885a sf	[Dark Green Hatch]	100' Existing Buffer Disturbance
4,118a sf	[Blue Hatch]	25' Existing Buffer Disturbance (To Be Removed)
307a sf	[Purple Hatch]	Existing Wetland (To Be Filled)
3,292a sf	[Cross-hatch]	25' Existing Buffer Disturbance (To Be Improved)
1,407a sf	[Diagonal-hatch]	50' Proposed Buffer Disturbance (To Be Improved)
2,846a sf	[Diagonal-hatch]	50' Existing Buffer Disturbance (To Be Improved)
321,821a sf	[None]	Total Existing Buffer Disturbance
42,228a sf	[None]	Total Proposed Buffer Disturbance

THE PURPOSE OF THE OVERALL PLAN SHEET IS TO BE UTILIZED AS A SITE KEY MAP, TO PROVIDE SITE FEATURE LOCATIONS ONLY. PLEASE REFER TO EACH INDIVIDUAL SHEET FOR MORE INFORMATION.

REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY



P:\PROJECTS\2023\DEMOC\3A\W201257-DEMOC-3A\DWG\INDEX.PLT



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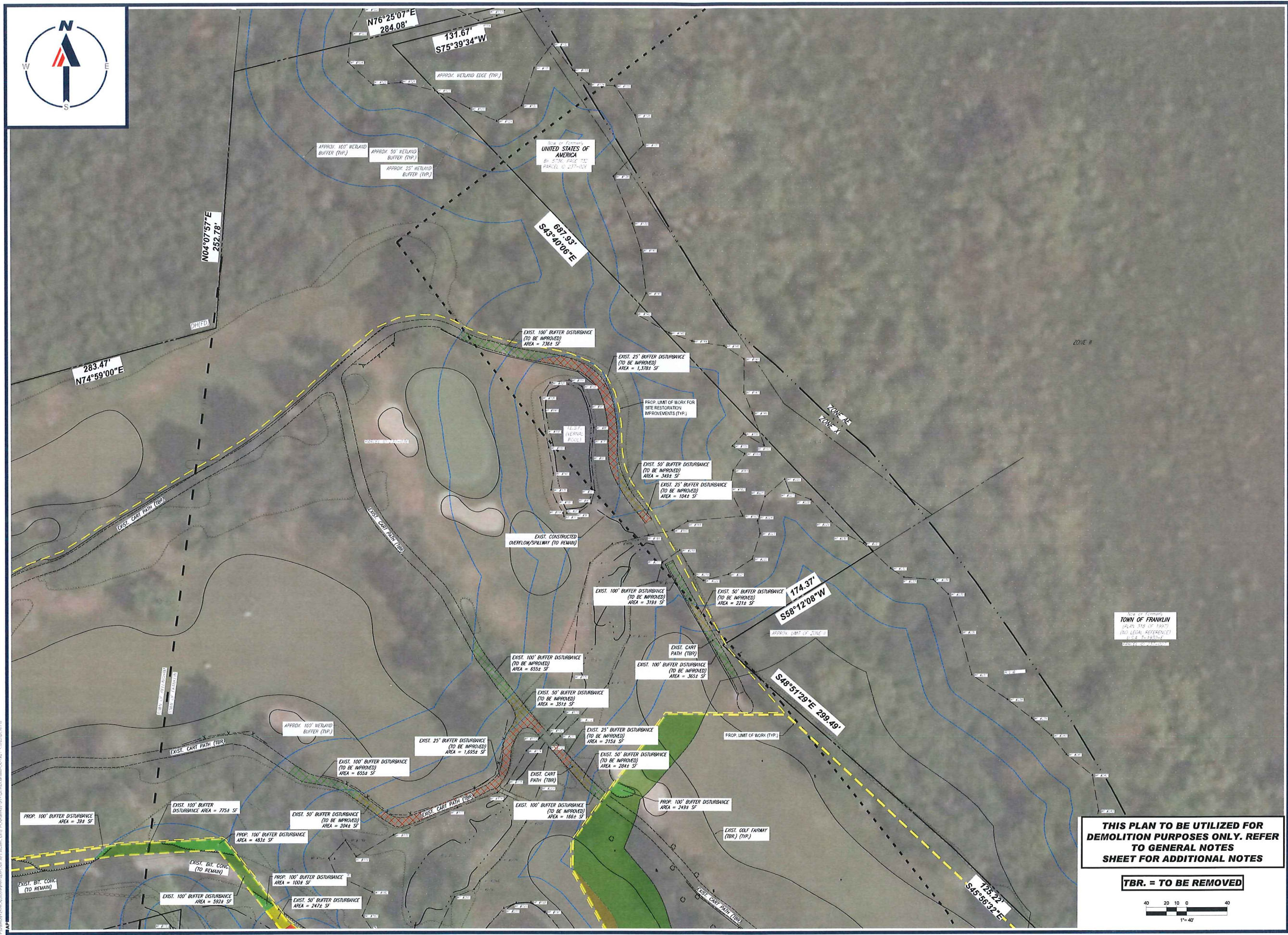
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Professional Engineer Seal for **John A. Kucian**, No. 41530, State of Massachusetts.

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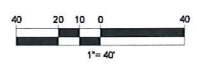
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 40 20 10 0 40
 1" = 40'

SHEET TITLE:
DEMOLITION PLAN A
 SHEET NUMBER:
C-202
 REVISION 3 - 7/19/2023



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PROJECT No.: VZ01257
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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: WZ01257-DEMO-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-9009
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SHEET TITLE:
DEMOLITION PLAN B

SHEET NUMBER:
C-203

REVISION 3 - 7/19/2023



OWNER:
LMP PROPERTIES, LLC
301 W. 100th St.
Suite 200
Bellingham, MA 01923

OWNER:
LMP PROPERTIES, LLC
301 W. 100th St.
Suite 200
Bellingham, MA 01923

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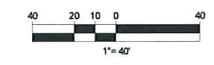
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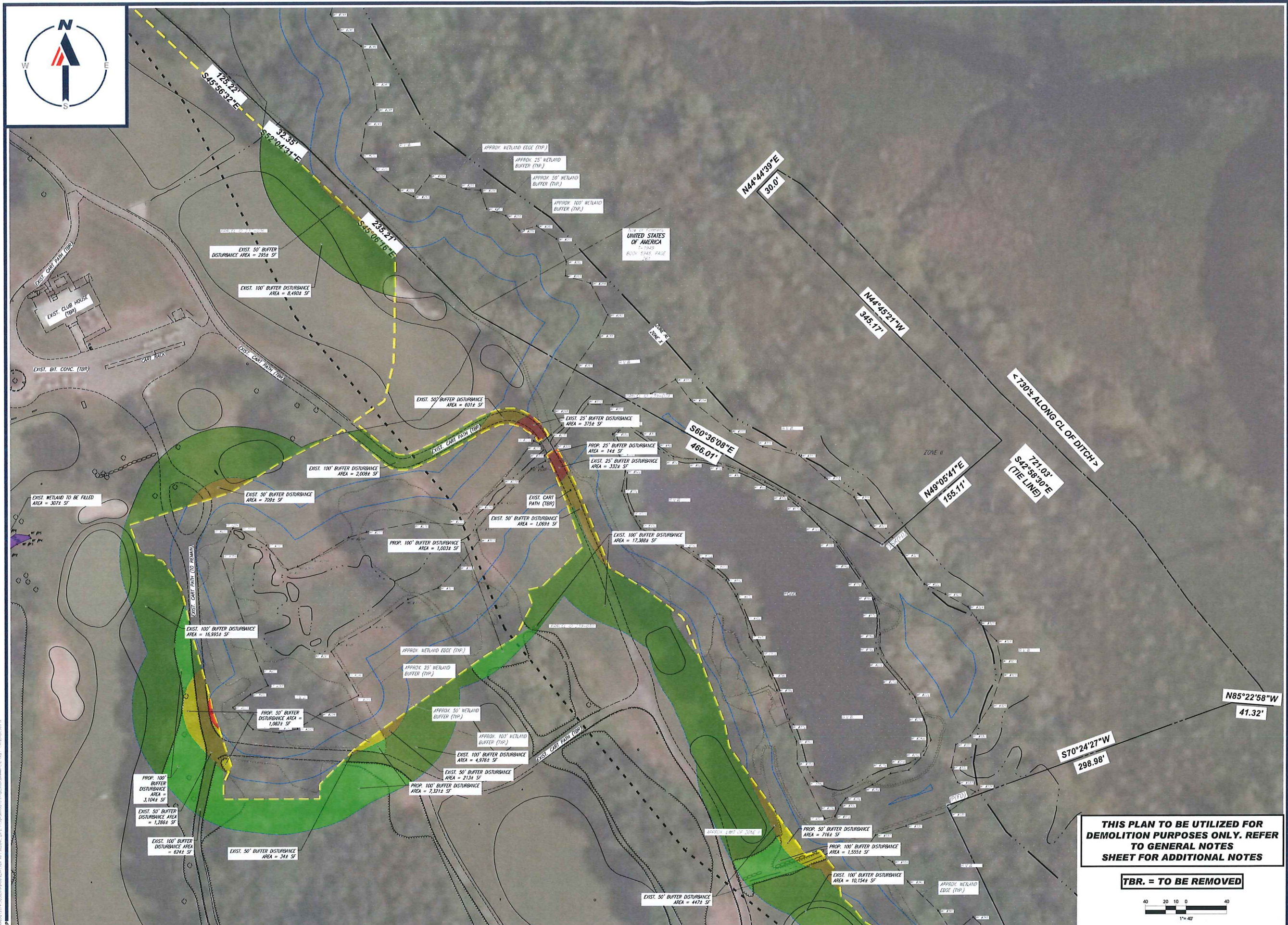
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SHEET TITLE:
DEMOLITION PLAN C

SHEET NUMBER:
C-204

REVISION 3 - 7/19/2023



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3	7/19/2023	PER SURVEY UPDATES	AP GD

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 PROPOSED SOLAR FARM

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40 20 0 40
 1" = 40'

SHEET TITLE:
DEMOLITION PLAN D

SHEET NUMBER:
C-205

REVISION 3 - 7/19/2023



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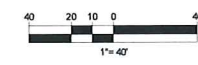
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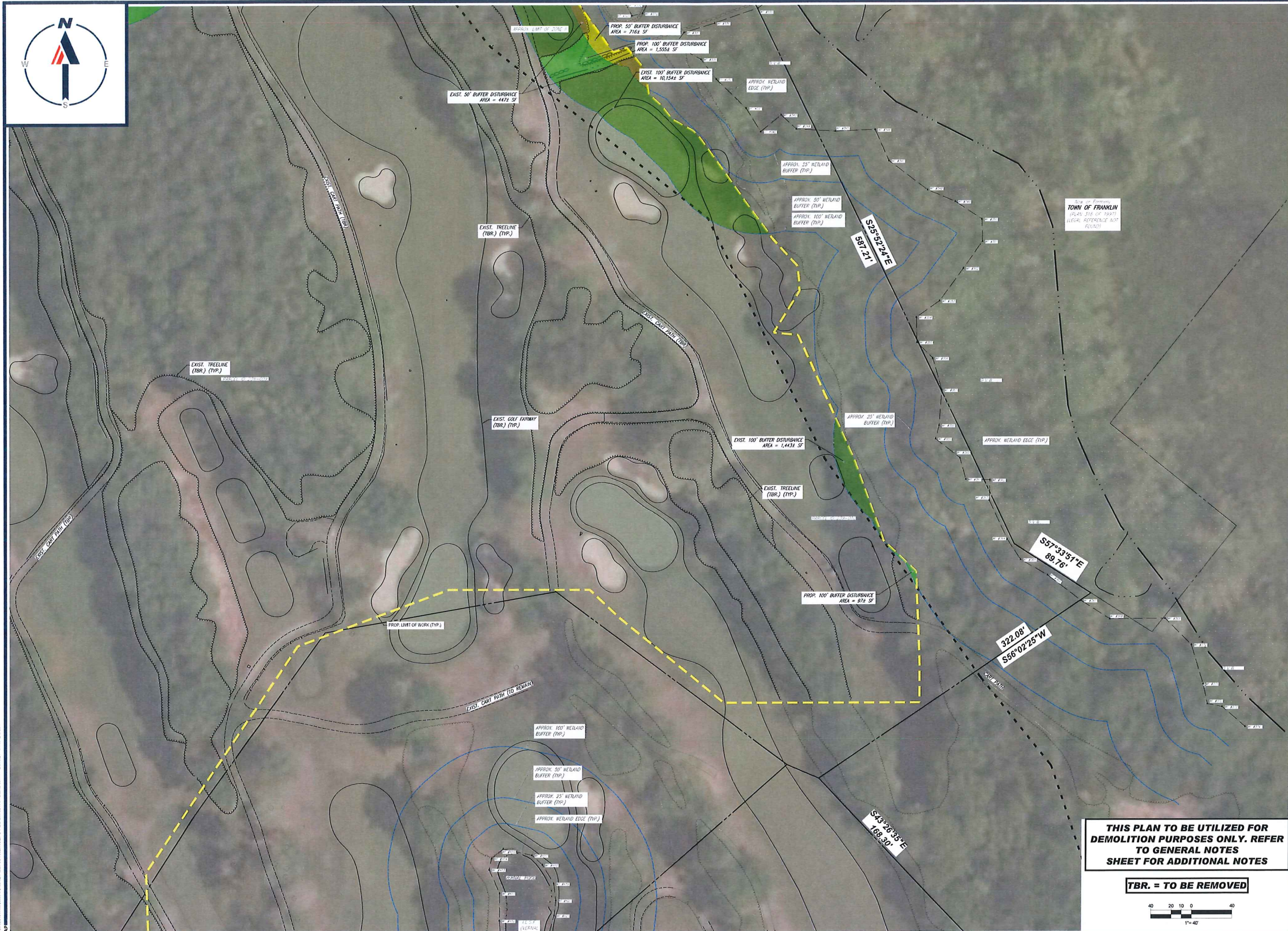


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SHEET TITLE:
DEMOLITION PLAN E
 SHEET NUMBER:
C-206
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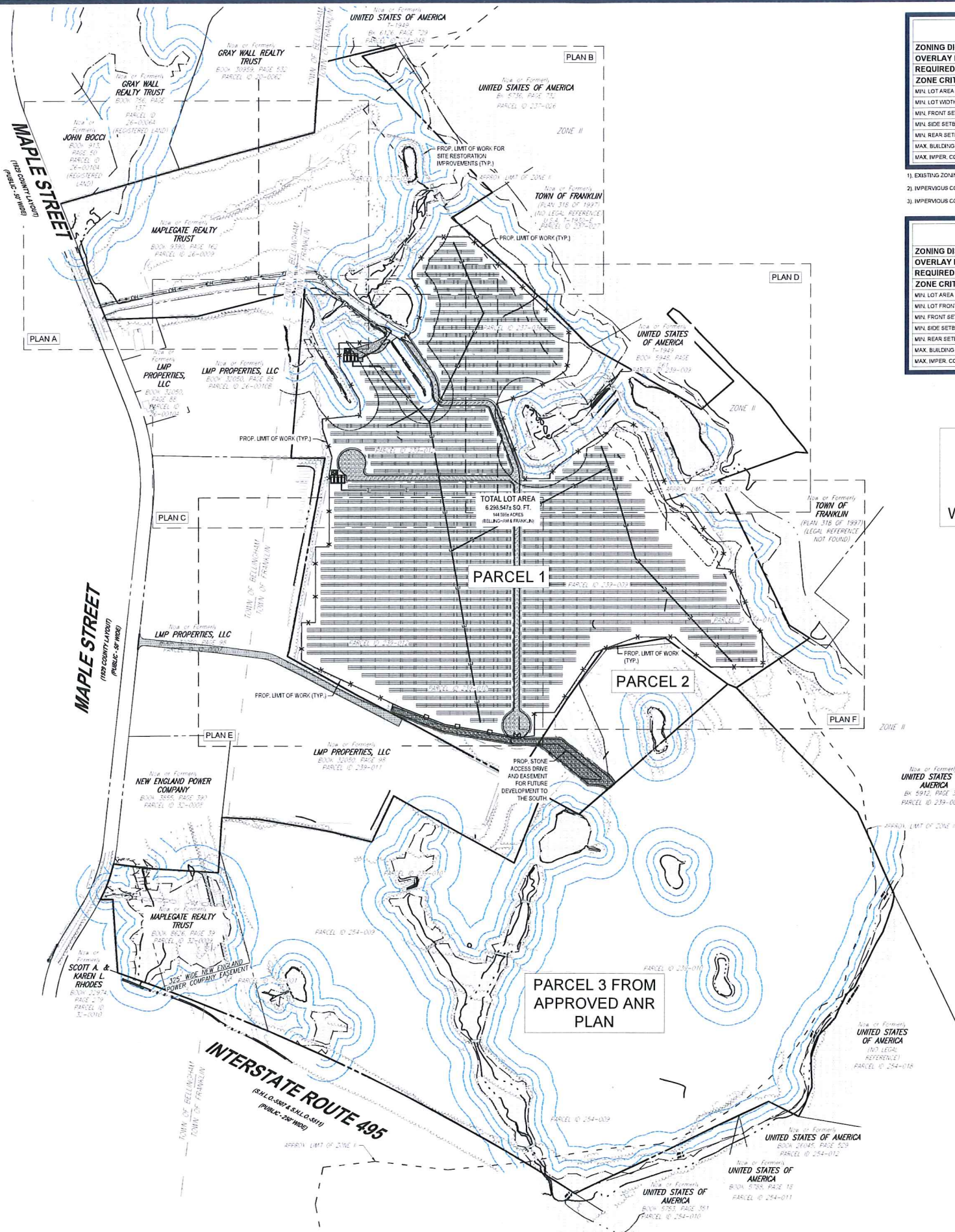
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40 20 0 40
 1"=40'

SHEET TITLE:
DEMOLITION PLAN F

SHEET NUMBER:
C-207

REVISION 3 - 7/19/2023



FRANKLIN ZONING ANALYSIS TABLE

ZONING DISTRICT	INDUSTRIAL	N/A - NOT APPLICABLE
OVERLAY DISTRICT	NONE	N/S - NOT SPECIFIED
REQUIRED PERMIT	TBD	(V) - VARIANCE REQUESTED
ZONE CRITERIA	REQUIRED	(W) - WAVEY REQUESTED
MIN. LOT AREA	0.8 ACRES	(E) - EXIST. NON-COMFORMANCE
MIN. LOT WIDTH	157.5'	
MIN. FRONT SETBACK	40'	
MIN. SIDE SETBACK	30'	
MIN. REAR SETBACK	30'	
MAX. BUILDING HEIGHT	3 STORES	
MAX. IMPER. COVERAGE	80 %	

1) EXISTING ZONING CRITERIA INCLUDES PARCELS D, E, F, G, H, I.
 2) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 2.01 ACRES OF GRAVEL.
 3) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 1.60 ACRES OF GRAVEL.

BELLINGHAM ZONING ANALYSIS TABLE

ZONING DISTRICT	SUBURBAN	N/A - NOT APPLICABLE
OVERLAY DISTRICT	NONE	N/S - NOT SPECIFIED
REQUIRED PERMIT	TBD	(V) - VARIANCE REQUESTED
ZONE CRITERIA	REQUIRED	(W) - WAVEY REQUESTED
MIN. LOT AREA	0.92 ACRES	(E) - EXIST. NON-COMFORMANCE
MIN. LOT FRONTAGE	153.0'	
MIN. FRONT SETBACK	30'	
MIN. SIDE SETBACK	15'	
MIN. REAR SETBACK	20'	
MAX. BUILDING HEIGHT	35'	
MAX. IMPER. COVERAGE	N/A	

14,994.72 - KW DC
 4,999 - KW AC NORMAL
 4,999 - KW AC MAXIMUM
 PHOTOVOLTAIC POWER SYSTEM
 W/ 5,000 KW / 31,000 KWH DC-COUPLED STORAGE

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Professional Engineer Seal for John A. Bohlert, No. 41530, State of Massachusetts.

SHEET TITLE:
OVERALL SITE LAYOUT PLAN

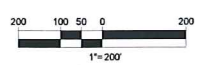
SHEET NUMBER:
C-301

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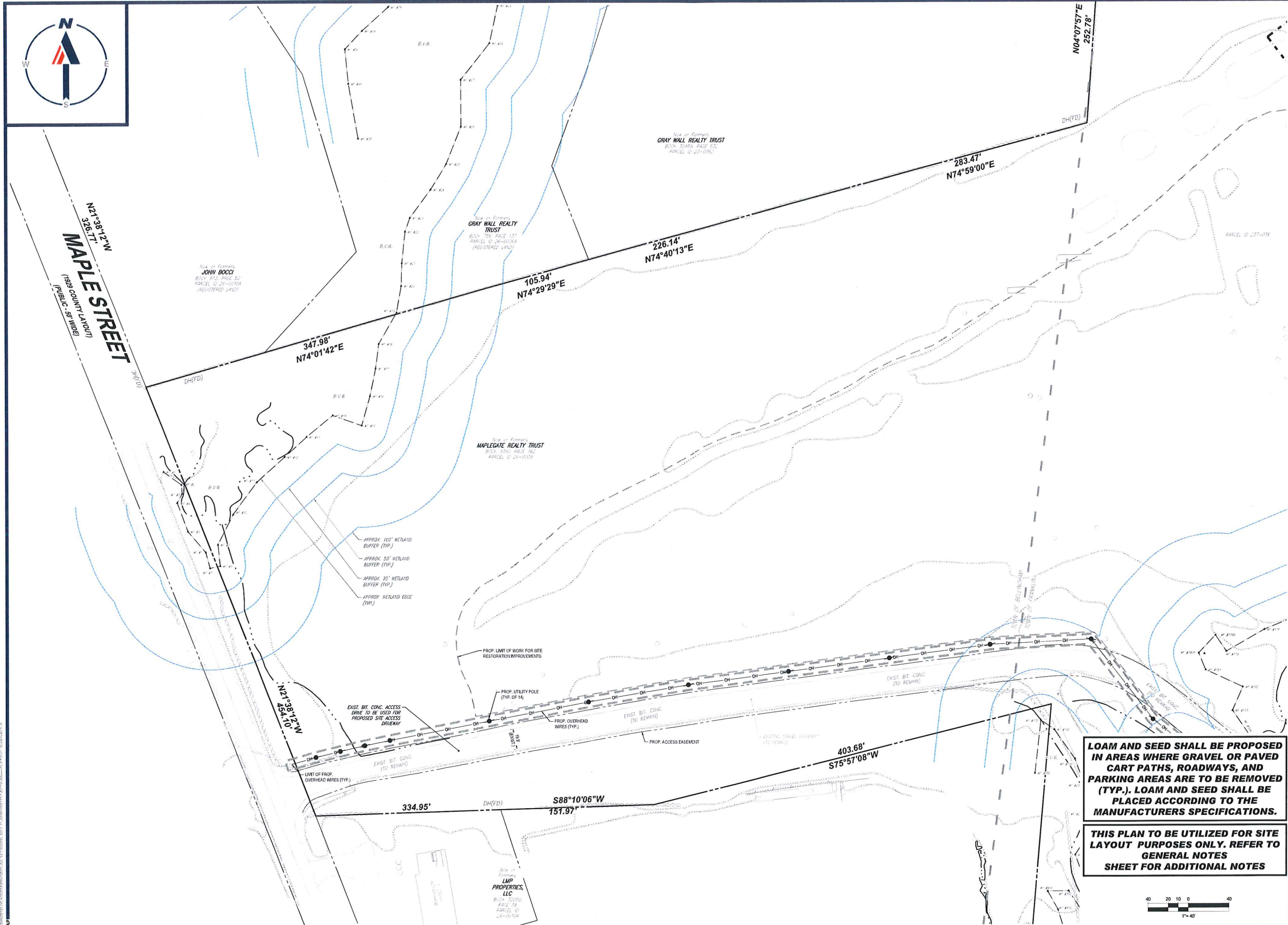
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THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES



P:\PROJECTS\2023\NEXTRGRID\MESCALBEAN\SETTLEMENT\SITE PLAN\SPD\SPD-C-301-CRITICAL SITE



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1	06/07/2023	PLANNING BOARD COMMENTS	GD	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	GD	OCR
3	7/19/2023	PER SURVEY UPDATES	AD	GD

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PROJECT No.: W201257
 DRAWN BY: EVO / CMC / OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: W201257-SPD-3A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009 160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

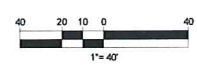
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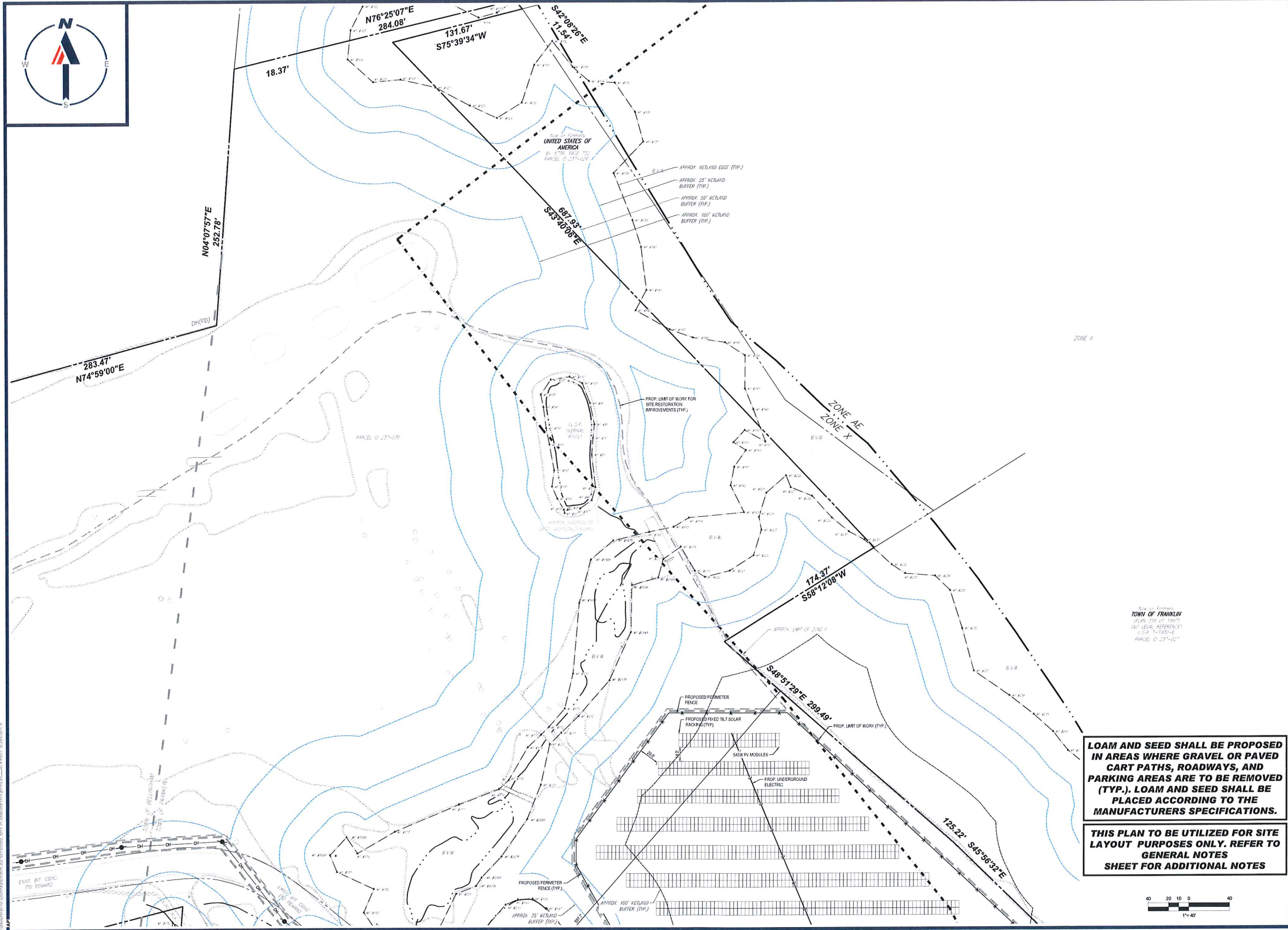
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SITE LAYOUT PLAN A

SHEET NUMBER:

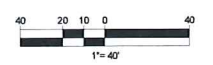
C-302

REVISION 3 - 7/19/2023



LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

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2	07/10/2023	PLANNING BOARD COMMENTS	GD
3	7/19/2023	PER SURVEY UPDATES	AP



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PROJECT No.: W201257
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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD L.D.: W201257-SPD-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009, 160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

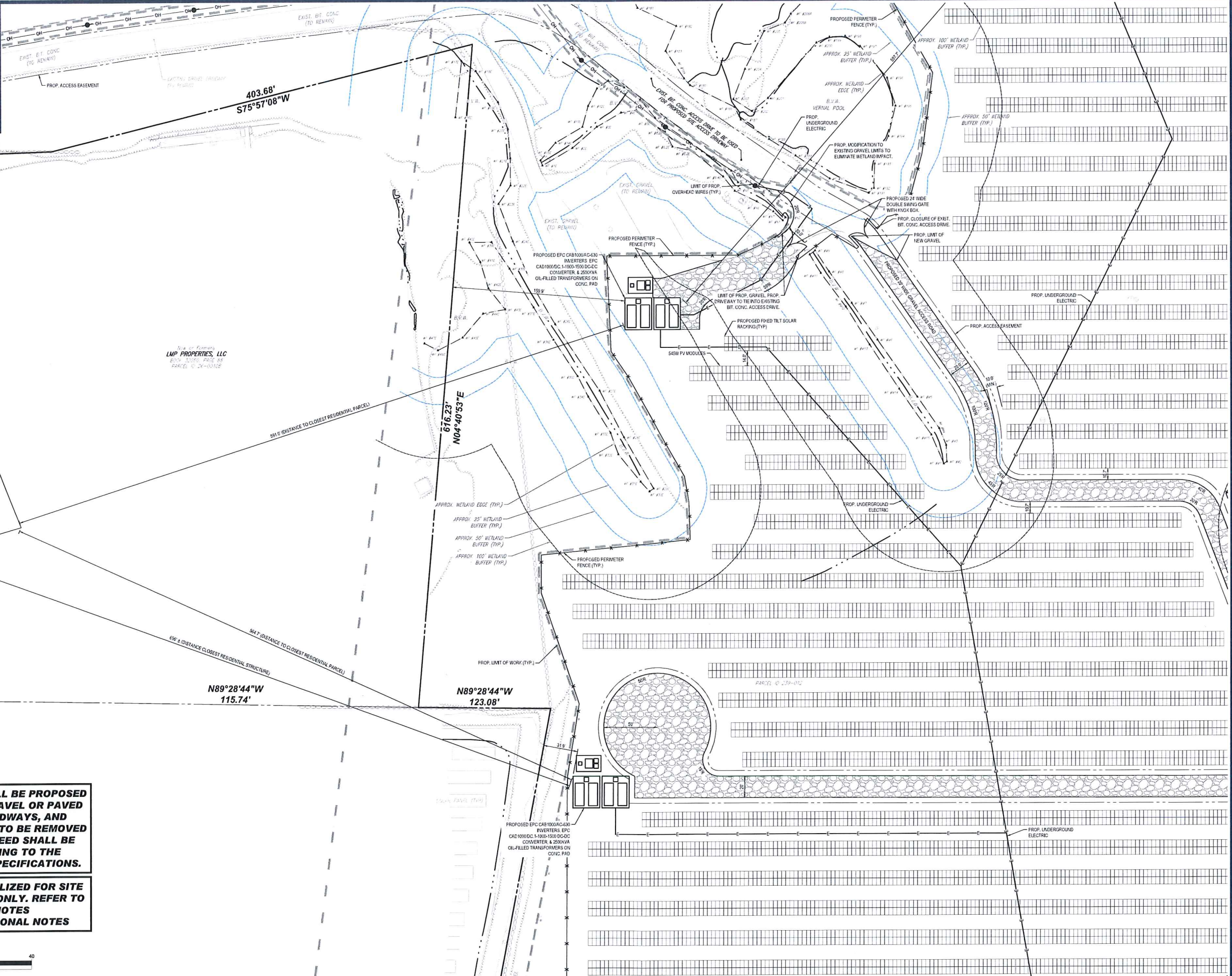
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 352 TURNPIKE ROAD
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SHEET TITLE:
SITE LAYOUT PLAN B

SHEET NUMBER:
C-303

REVISION 3 - 7/19/2023



Book of Records
LMP PROPERTIES, LLC
BOOK 22-1050
PAGE 65
PARCEL ID
44-0374

Book of Records
LMP PROPERTIES, LLC
BOOK 22-1050
PAGE 65
PARCEL ID
24-1012

LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

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PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-38-37, 237-38, E 239-010, PORTION OF D 239-010, 28-0009
160 MAPLE STREET,
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SHEET TITLE:
SITE LAYOUT PLAN C

SHEET NUMBER:
C-304

REVISION 3 - 7/19/2023

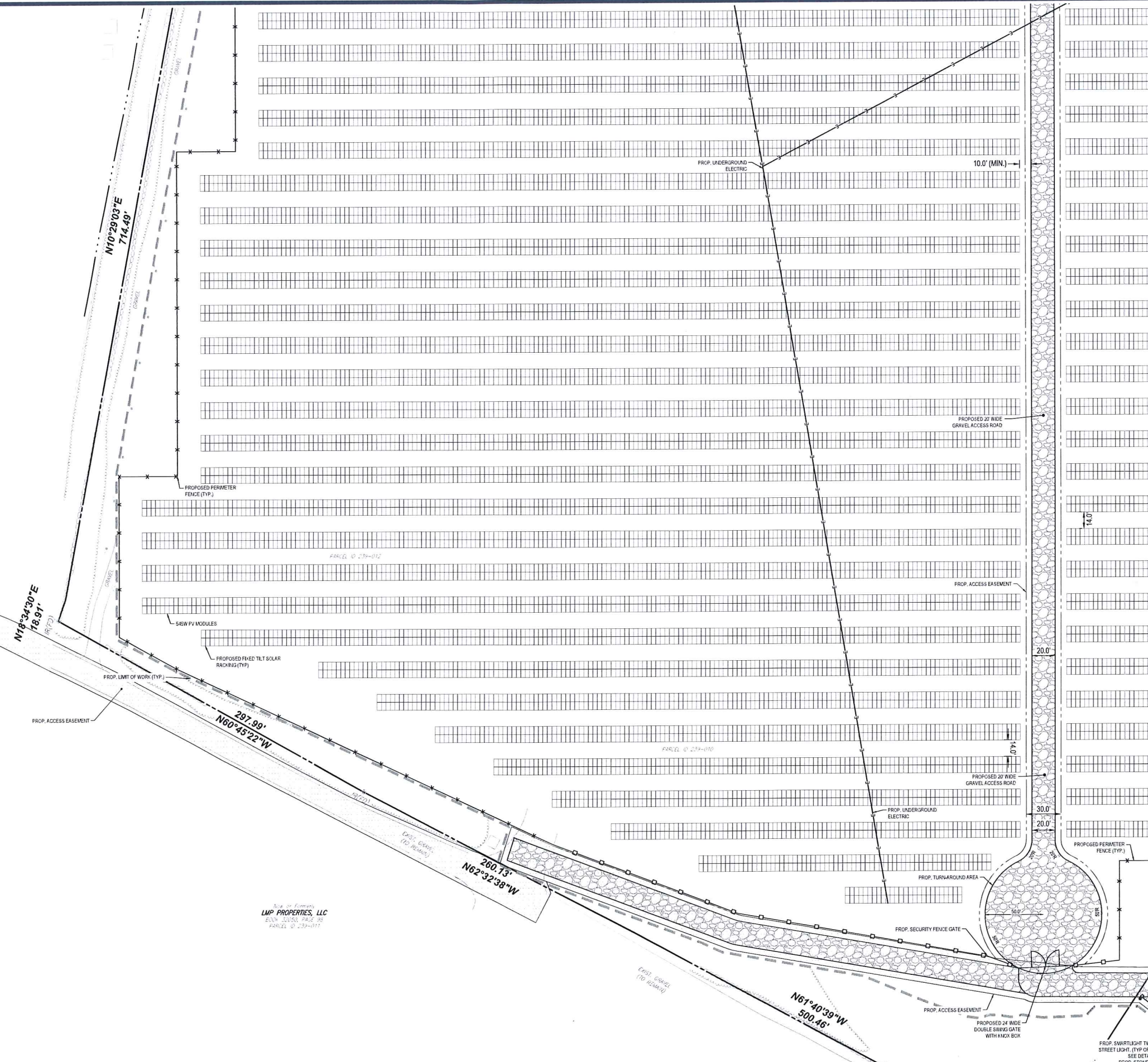
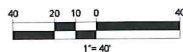


Site of Former
LMP PROPERTIES, LLC
BORN SURVIVOR PASE 95
PARCEL ID 239-0017

Site of Former
LMP PROPERTIES, LLC
BORN SURVIVOR PASE 95
PARCEL ID 239-0117

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1	06/07/2023	PLANNING BOARD COMMENTS	OCR
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DRAWN BY: EVD / CMC / OCR
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DATE: 04/13/2023
CAD LD.: W201257-SPPD-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

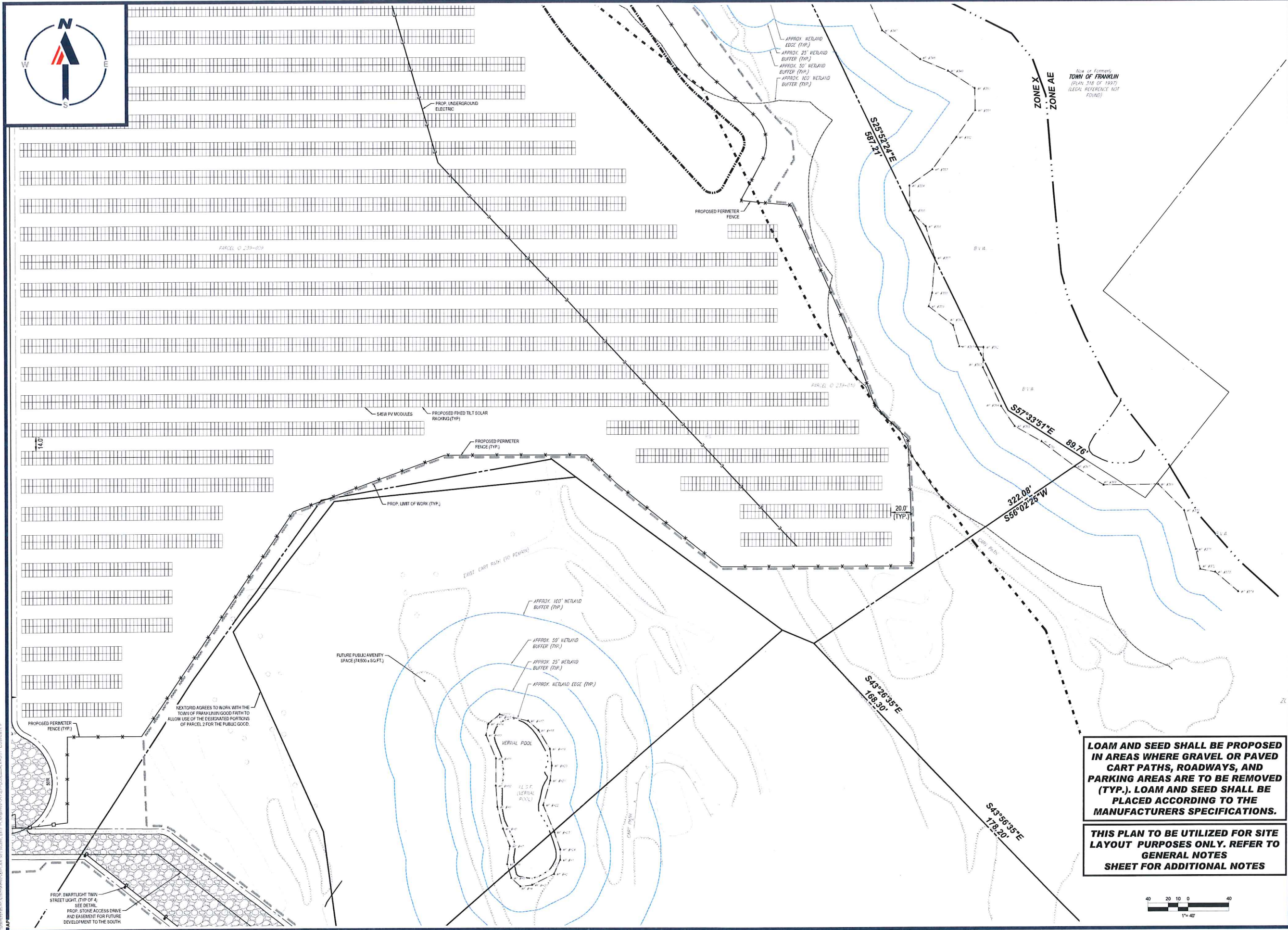
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SHEET TITLE:
SITE LAYOUT PLAN E

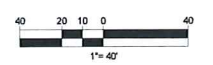
SHEET NUMBER:
C-306

REVISION 3 - 7/19/2023



LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

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 DATE: 04/13/2023
 CAD LD.: W201257-SPD-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 28-0009
 160 MAPLE STREET
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SHEET TITLE:
SITE LAYOUT PLAN F

SHEET NUMBER:
C-307

REVISION 3 - 7/19/2023



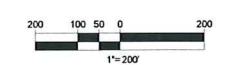
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CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

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NO EARTH MATERIAL SHALL BE REMOVED FROM THE SITE EXCEPT FOR UNSUITABLE CONSTRUCTION AND DEMOLITION DEBRIS.

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PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 28-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

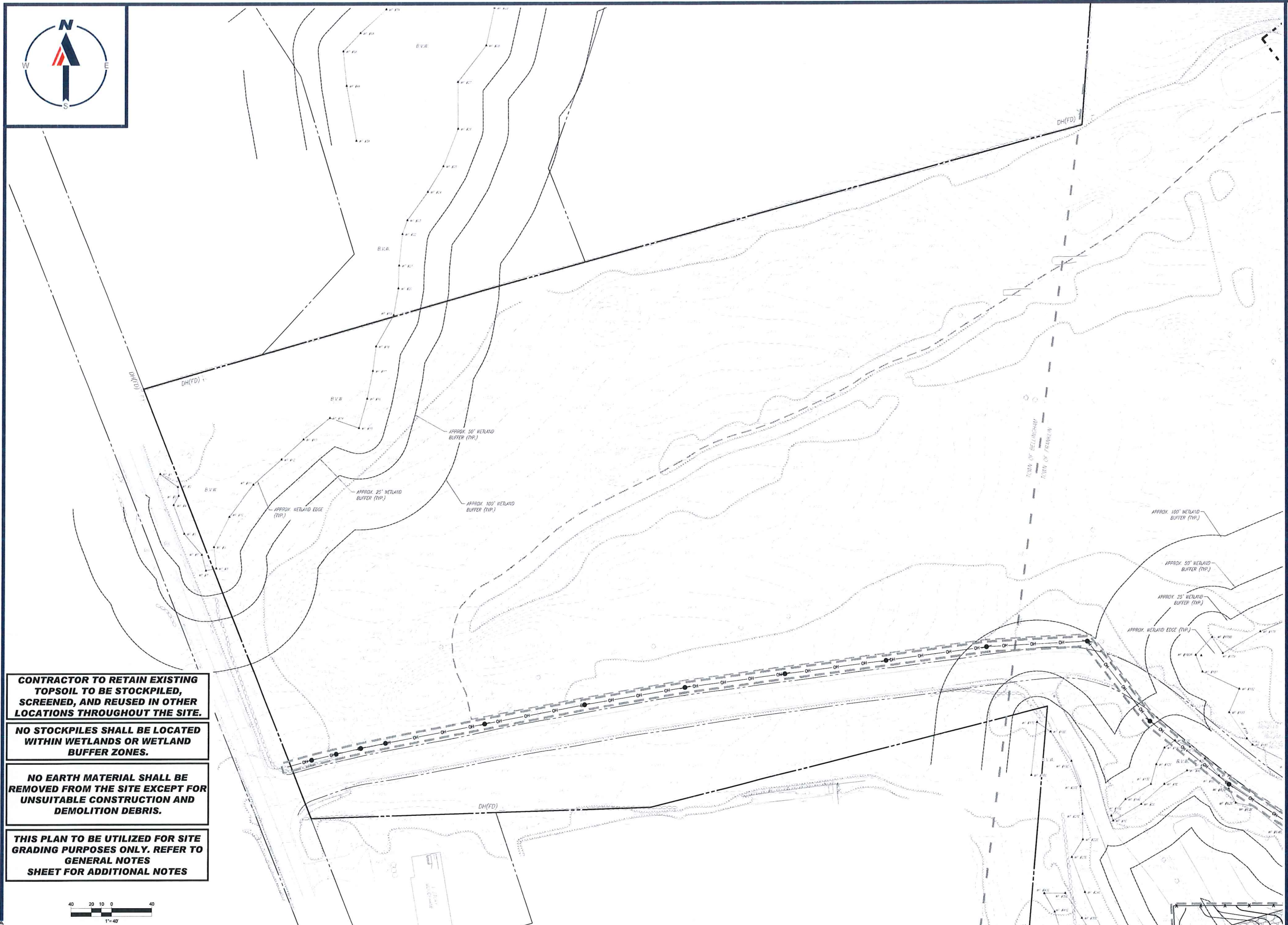
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SHEET TITLE:
OVERALL GRADING PLAN

SHEET NUMBER:
C-401

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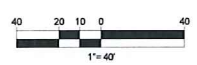


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 CHECKED BY: GD
 DATE: 06/13/2023
 CAD L.D.: V201257-GRAD-3A

PROPOSED SITE PLAN DOCUMENTS
 FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM
 LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-35, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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SHEET TITLE:
GRADING PLAN A
 SHEET NUMBER:
C-402

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 CAD LD.: W201257-GRAD-3A

PROJECT:
PROPOSED SITE PLAN DOCUMENTS
 FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM
 LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009, 160 MAPLE STREET
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THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES



SHEET TITLE:
GRADING PLAN B
 SHEET NUMBER:
C-403
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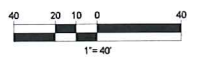


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PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

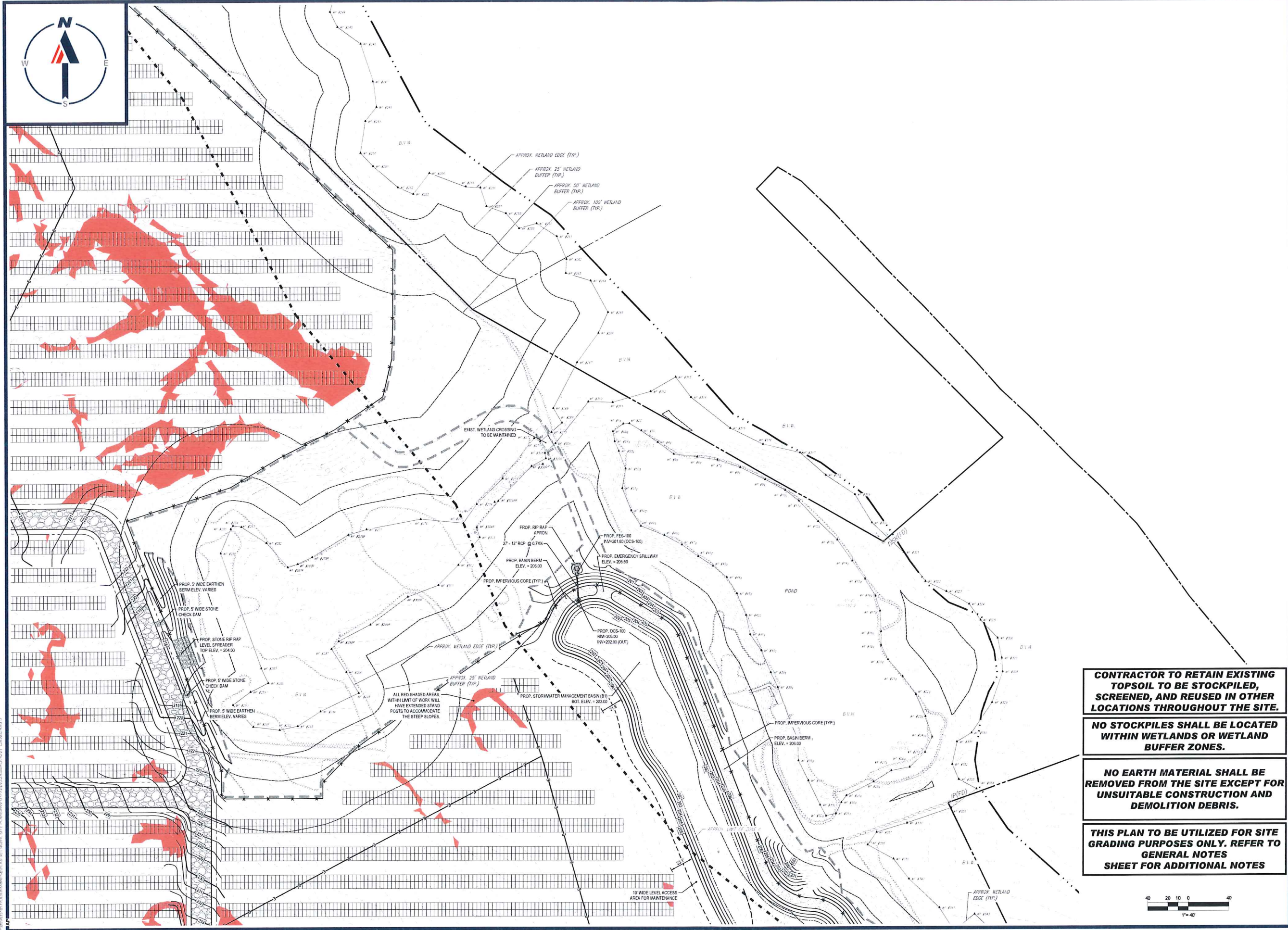
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SHEET TITLE:
GRADING PLAN C

SHEET NUMBER:
C-404

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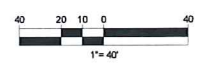


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PROPOSED SITE PLAN DOCUMENTS

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 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

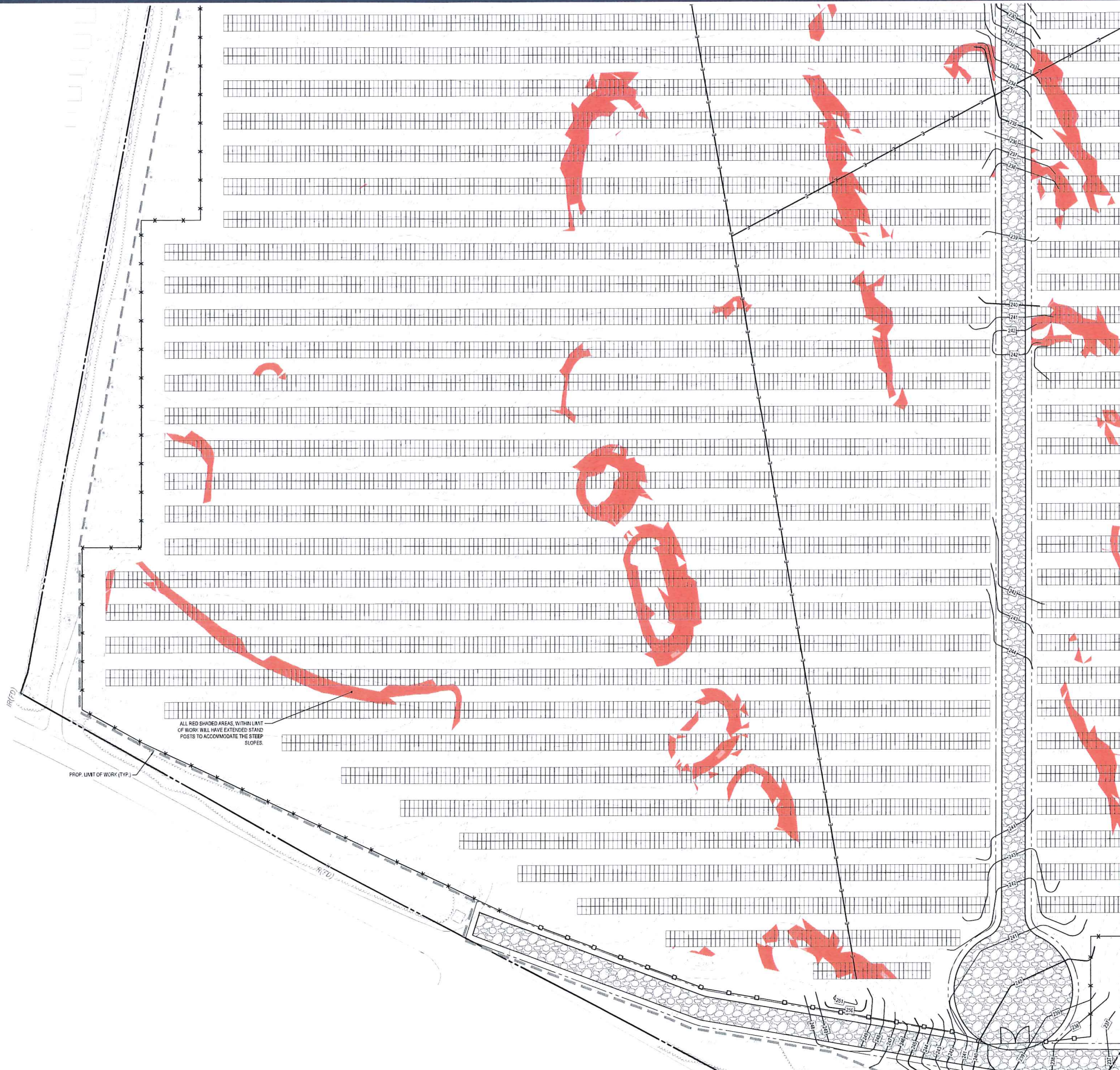
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SHEET TITLE:
GRADING PLAN D

SHEET NUMBER:
C-405

REVISION 3 - 7/19/2023



ALL RED SHADED AREAS, WITHIN LIMIT OF WORK, WILL HAVE EXTENDED STAND POSTS TO ACCOMMODATE THE STEEP SLOPES

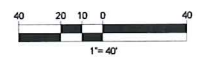
PROP. LIMIT OF WORK (TYP.)

CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

NO STOCKPILES SHALL BE LOCATED WITHIN WETLANDS OR WETLAND BUFFER ZONES.

NO EARTH MATERIAL SHALL BE REMOVED FROM THE SITE EXCEPT FOR UNSUITABLE CONSTRUCTION AND DEMOLITION DEBRIS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES



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1	06/07/2023	PLANNING BOARD COMMENTS	OCR
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3	7/19/2023	PER SURVEY UPDATES	AP

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PROJECT No.: W201257
 DRAWN BY: EVD / CAC / OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: W201257-GRAD-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

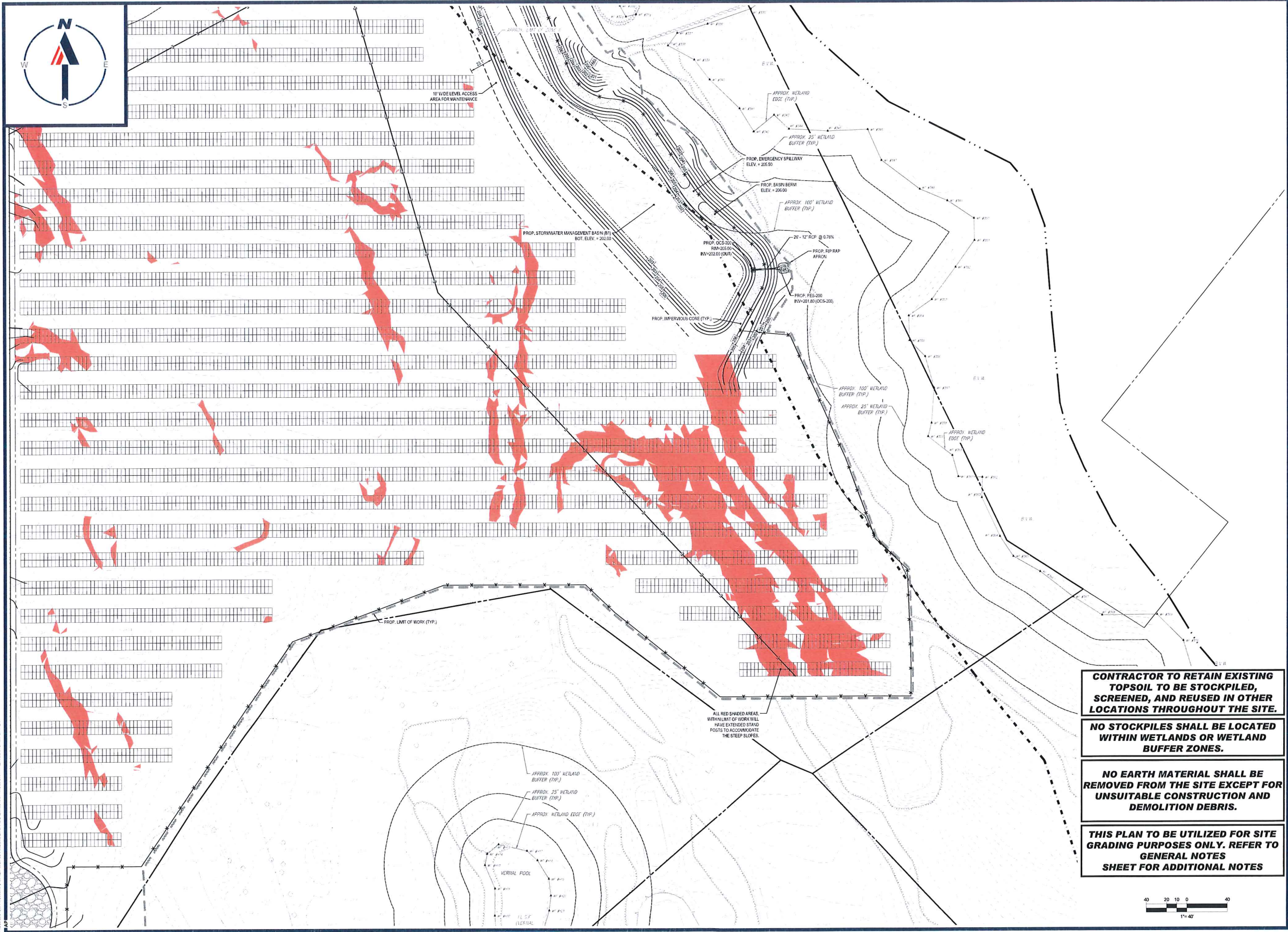
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 352 TURNPIKE ROAD
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SHEET TITLE:
GRADING PLAN E

SHEET NUMBER:
C-406

REVISION 3 - 7/19/2023

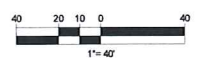


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PROJECT No.: W201257
 DRAWN BY: EVD / CMG / OCR
 CHECKED BY: GD
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 CAD LD.: W201257-GRAD-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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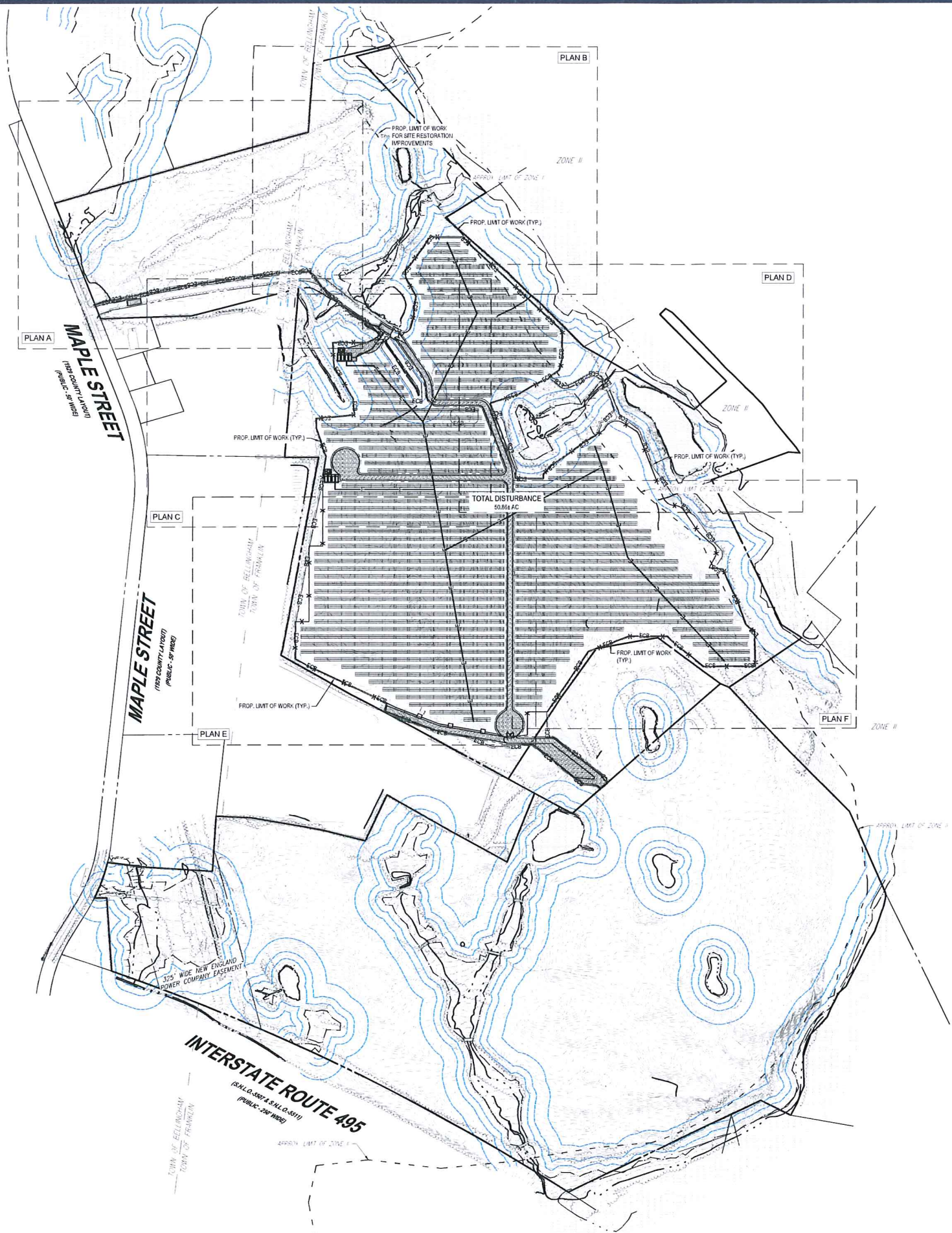
Professional Engineer Seal for John A. Kucera, No. 41530, State of Massachusetts.

SHEET TITLE:
GRADING PLAN F

SHEET NUMBER:
C-407

REVISION 3 - 7/19/2023

PROJECT: BELLINGHAM AND FRANKLIN, MA. SITE PLAN DOCUMENTS. LAYOUT: EVD, CAD: GD



THE PURPOSE OF THE OVERALL PLAN SHEET IS TO BE UTILIZED AS A SITE KEY MAP, TO PROVIDE SITE FEATURE LOCATIONS ONLY. PLEASE REFER TO EACH INDIVIDUAL SHEET FOR MORE INFORMATION.

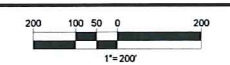
STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

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PROJECT No.: W201257
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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: W201257-EROS-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

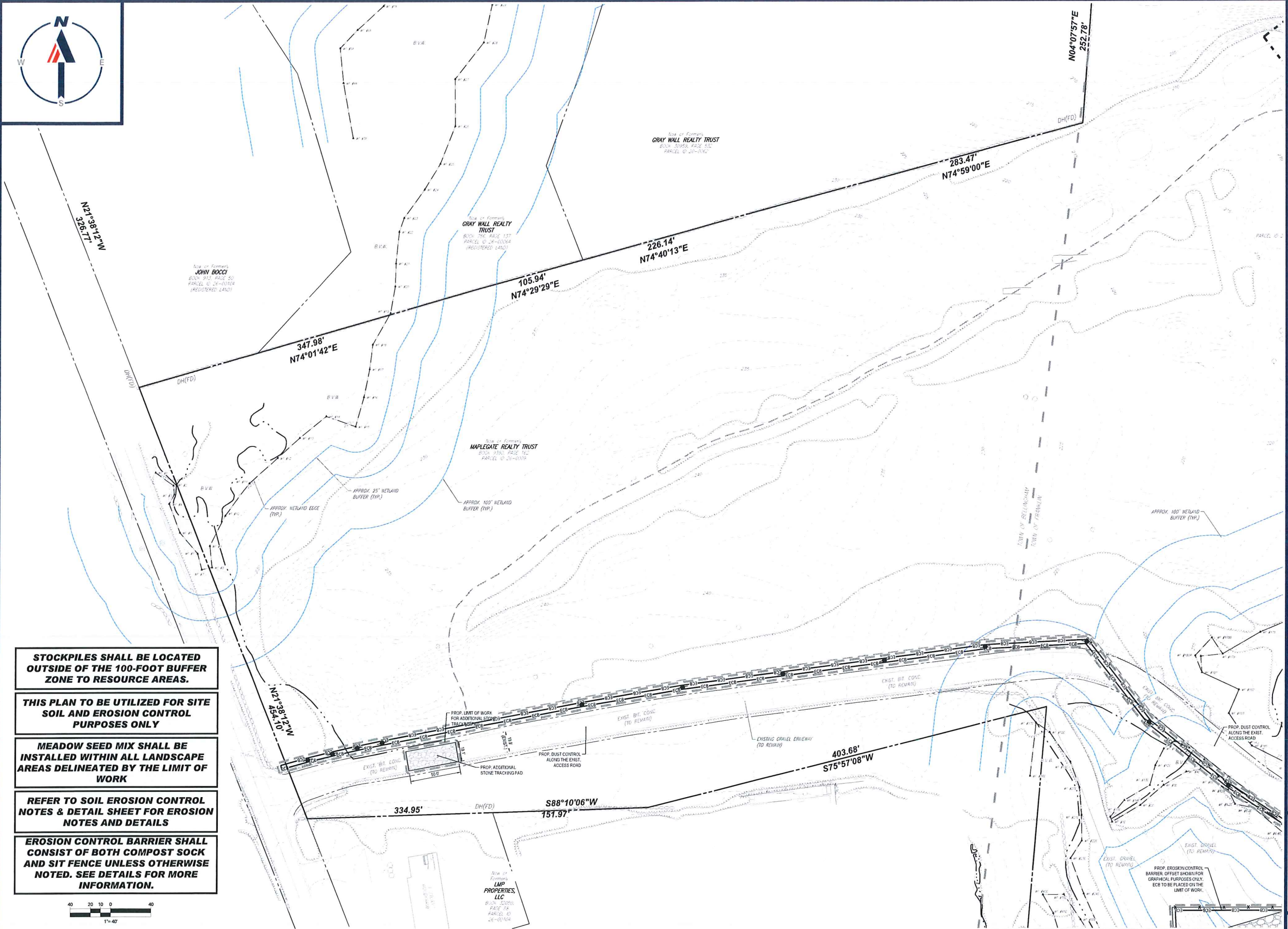
LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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SHEET TITLE:
OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:
C-601



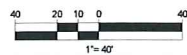
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1	06/07/2023	PLANNING BOARD COMMENTS	GD	OCR
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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD ID: W201257-EROS-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
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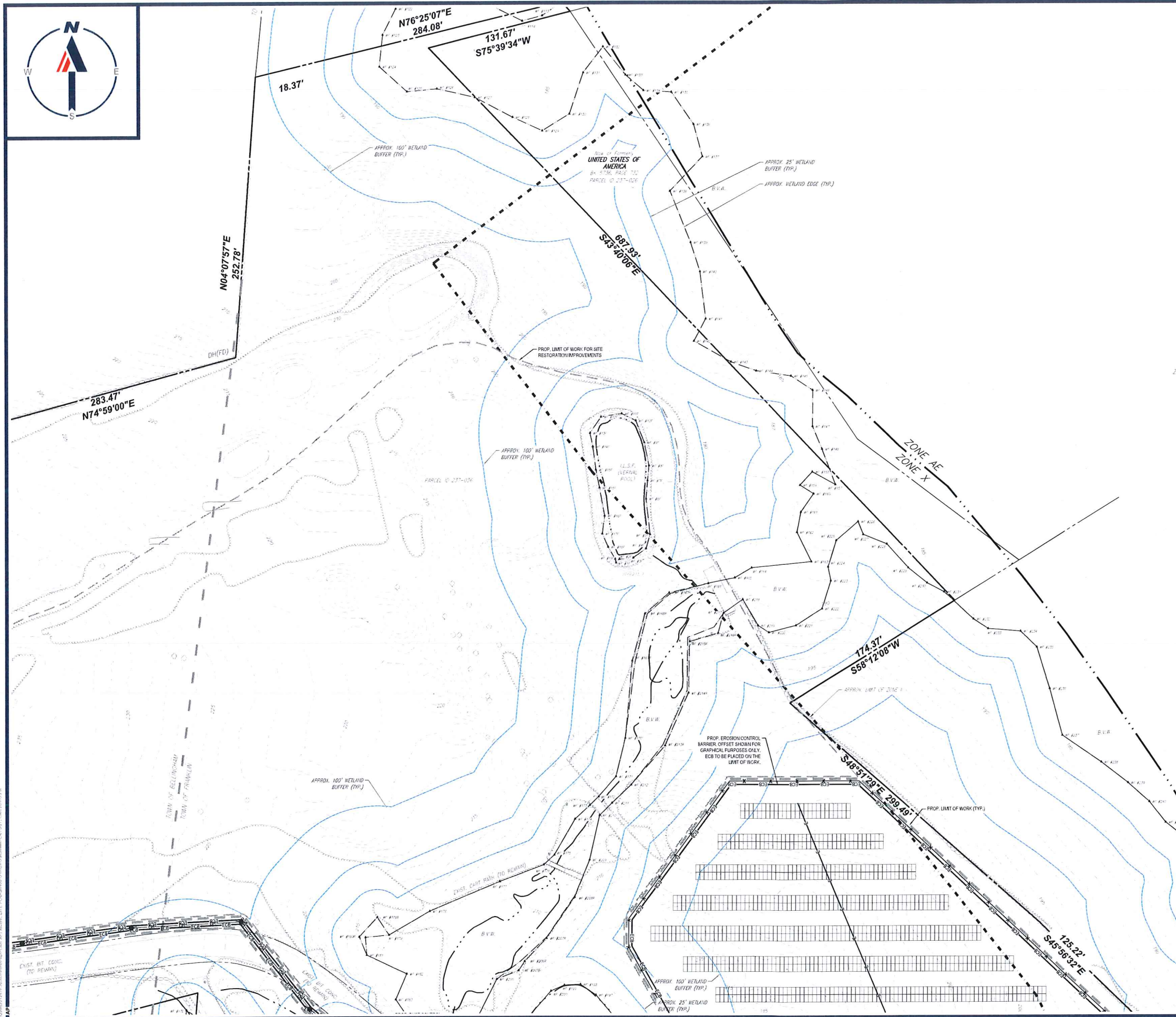
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SHEET TITLE: SOIL EROSION & SEDIMENT CONTROL PLAN A

SHEET NUMBER:
C-602

REVISION 3 - 7/19/2023



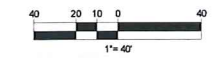
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1	06/07/2023	PLANNING BOARD COMMENTS	GD	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	OCR	GD
3	7/19/2023	PER SURVEY UPDATES	AP	GD

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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: W201257-EROS-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

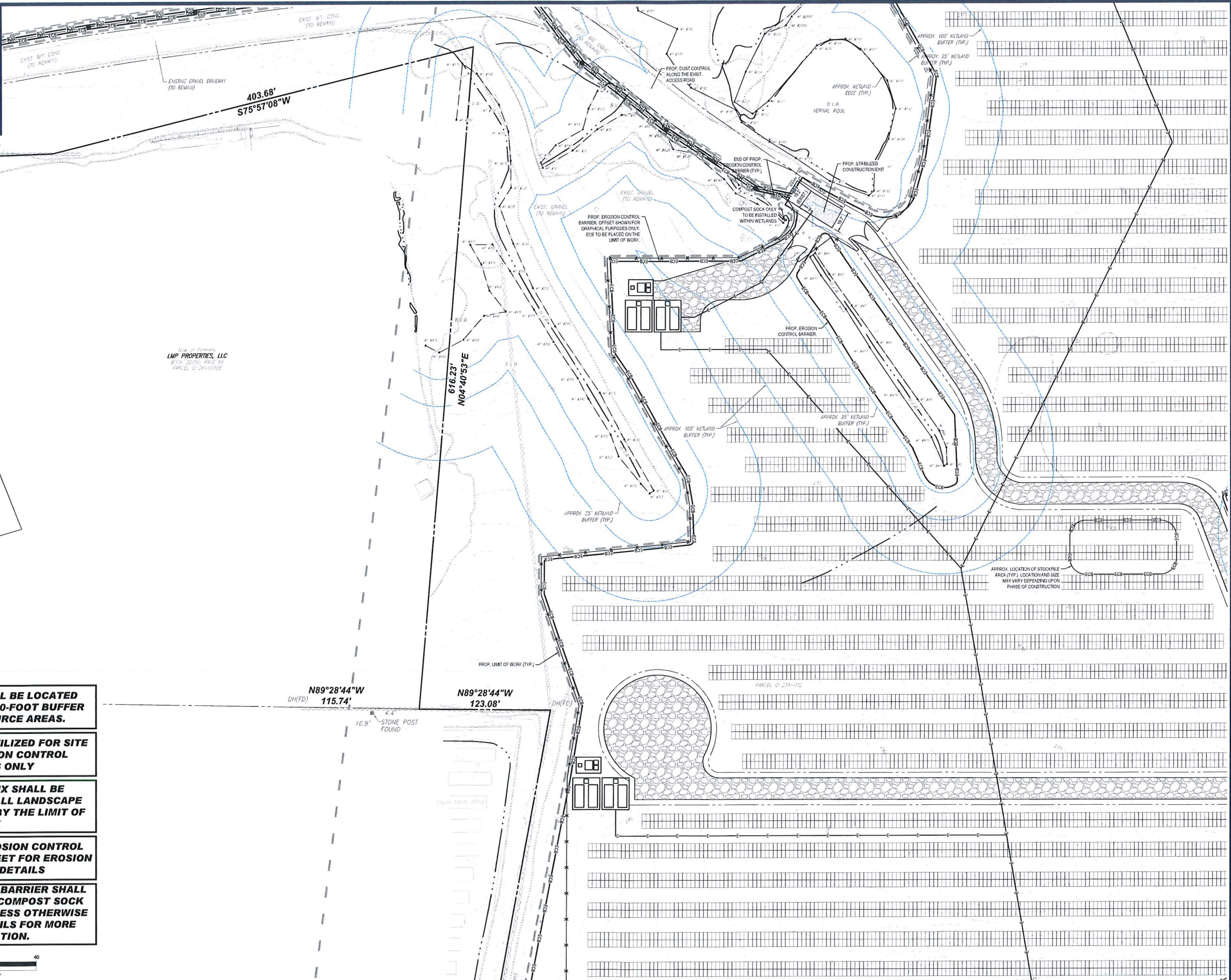
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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN B

SHEET NUMBER:
C-603

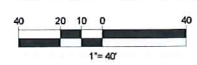
REVISION 3 - 7/19/2023



Site of Formerly
LMP PROPERTIES, LLC
Parcel ID: 26-01002
Parcel ID: 26-01004

Site of Formerly
LMP PROPERTIES, LLC
Parcel ID: 26-01002
Parcel ID: 26-01004

- STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.**
- THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY**
- MEADOW SEED MIX SHALL BE INSTALLED WITHIN ALL LANDSCAPE AREAS DELINEATED BY THE LIMIT OF WORK**
- REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS**
- EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SIT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**



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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD ID: W201257-EROS-3A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID
MESCALBEAN LLC
 PROPOSED
 SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F
 239-010, G 239-010, H 239-010, I 239-010,
 239-012, 237-36-37, 237-36, E 239-010,
 PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

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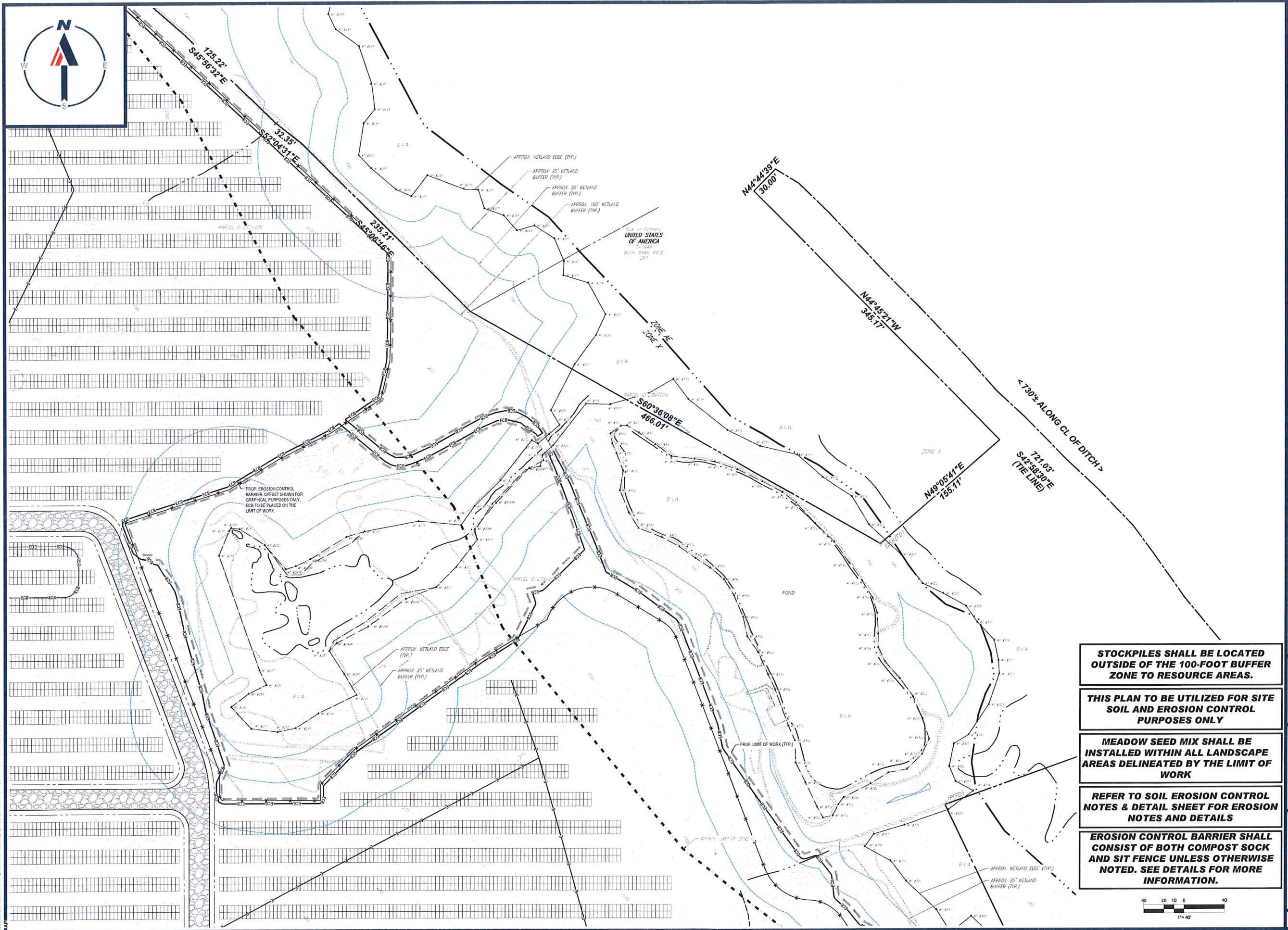
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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN C

SHEET NUMBER:
C-604

REVISION 3 - 7/19/2023



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2	07/10/2023	PLANNING BOARD COMMENTS	OCR	GD
3	7/19/2023	PER SURVEY UPDATES	AP	GD

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PROJECT No.: W201257
 DRAWN BY: EVD / CMC / OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: W201257-EROS-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN D

SHEET NUMBER:
C-605

REVISION 3 - 7/19/2023

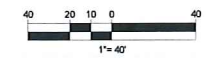
STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

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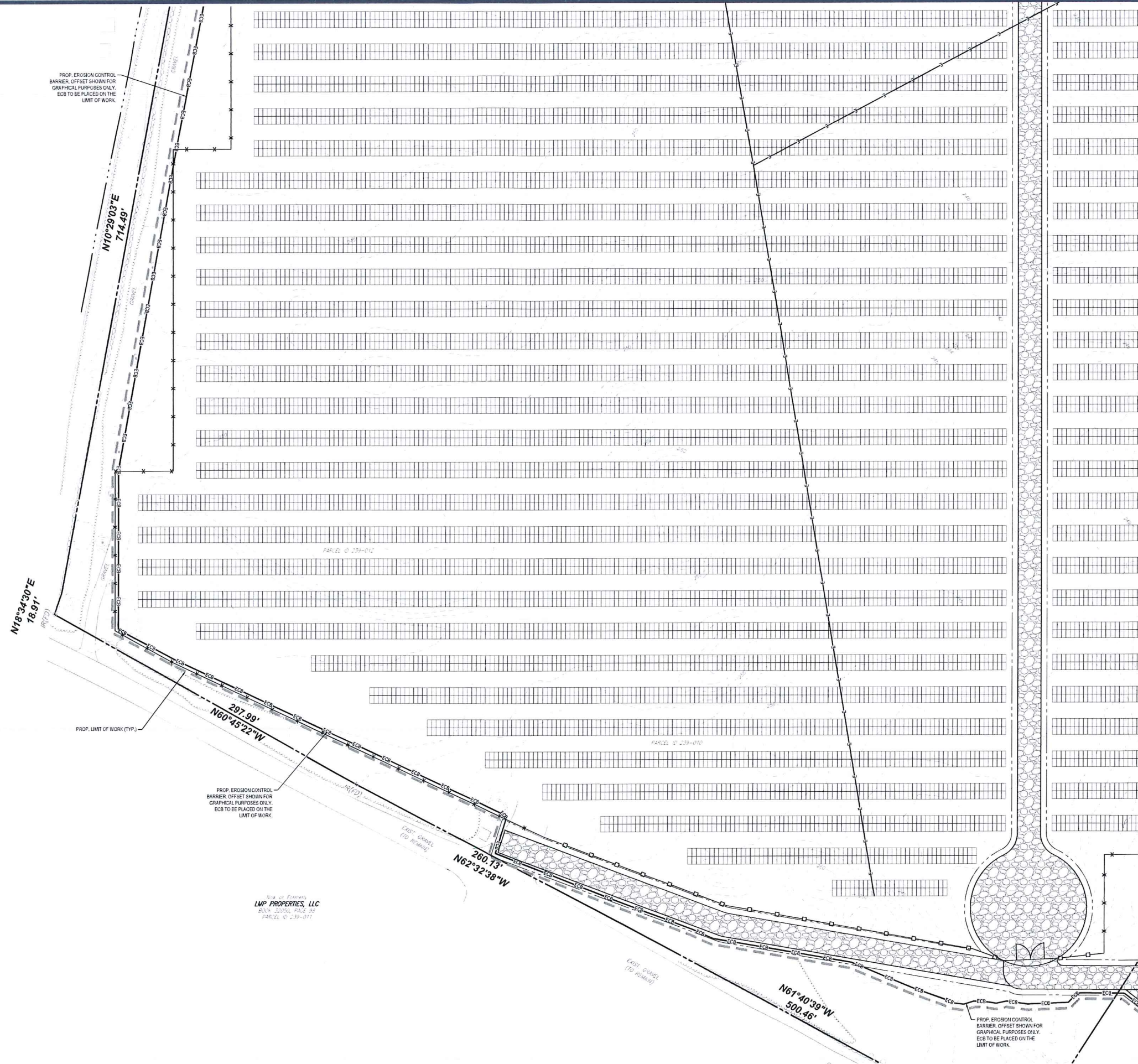
EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SIT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.





Site of Former
LMP PROPERTIES, LLC
BANK 12001 PAR 22
PARCEL ID 239-017

TOWN OF BELLINGHAM
TOWN OF FRANKLIN



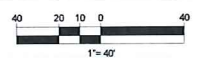
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PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
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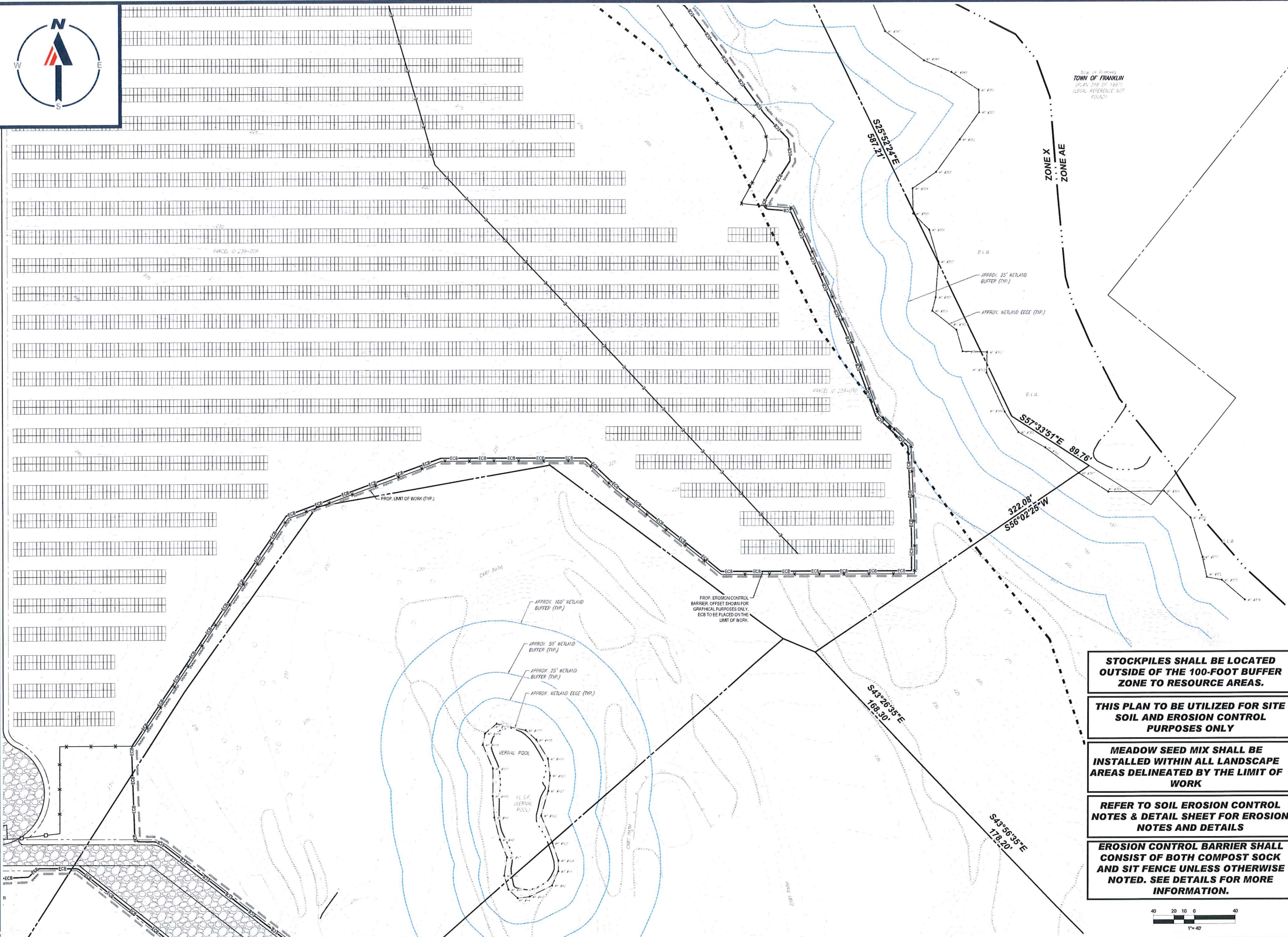
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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN E

SHEET NUMBER:
C-606

REVISION 3 - 7/19/2023



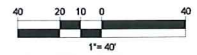
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FOR
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PROPOSED SOLAR FARM

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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN F

SHEET NUMBER:
C-607

REVISION 3 - 7/19/2023

EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 3%.
4. INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPLOUSE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL STANDARDS.
10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
10.1. SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
10.2. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 600 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
10.3. FOLLOWS SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.00 LBS PER 1,000 SF LAWN. QUALITY SOY MEAL SHALL BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1, SOY ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
10.4. STRAW MULCH AT THE RATE OF 7000 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
12. WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
13. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
14. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

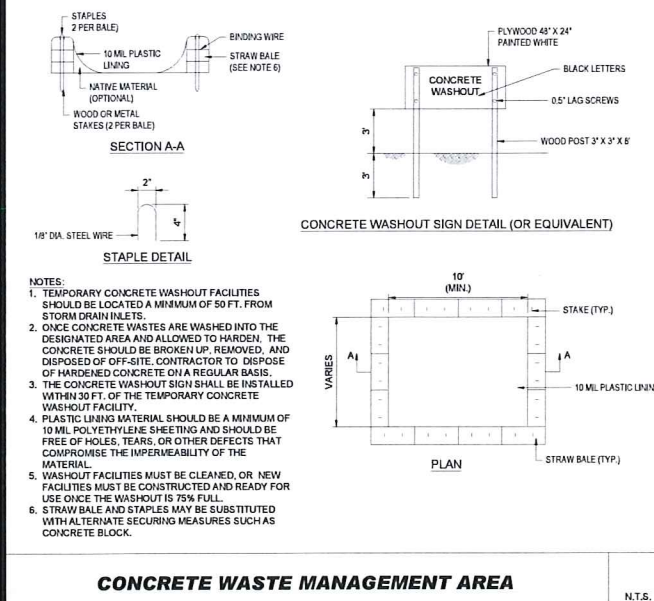
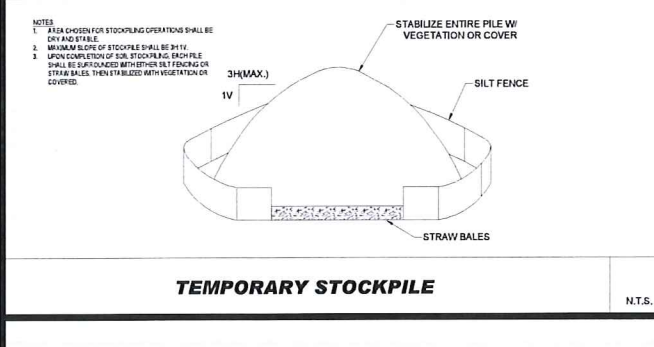
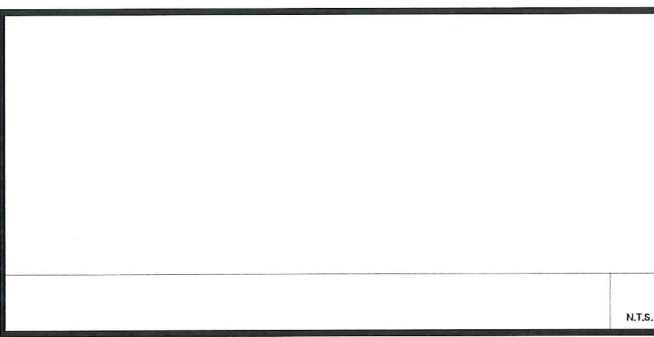
Table with 3 columns: LOCATION PROTECTED AREA, MULCH STRAW, MULCH RATE (1000 SF) POUNDS. Rows include WINDY AREA, MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1, GREATER THAN 3:1.

- 15. PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
15.1. TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS AND PROVIDE A MINIMUM OF 1,800 CF PER ACRE OF TRIBUTARY AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES, MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 8 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.
16. STOCKPIILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
17. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.
18. THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.
19. THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.

- 20. EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
21. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
22. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.
23. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITH-OUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
24. AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY SEEDING WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
25. FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDING. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDING AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
26. MULCHING REQUIREMENTS:
26.1. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAIN INLETS.
26.2. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF OFF-SITE. CONTRACTOR TO DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
26.3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
26.4. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
26.5. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
26.6. STRAW BALE AND STAPLES MAY BE SUBSTITUTED WITH ALTERNATE SECURING MEASURES SUCH AS CONCRETE BLOCK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
2. EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS ENGINEER CLEARLY AND SPECIFICALLY IN WRITING DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.
3. THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 44,133 ACRES.
4. THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
4.1. STABILIZED CONSTRUCTION ENTRANCE EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
4.2. SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWN-SLOPE PERIMETERS OF THE SITE TEMPORARY FILL AND SOIL STOCKPILES.
4.3. INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWN-SLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
5. INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6" OR HALF THE OF THE EROSION CONTROL BARRIER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND REMOVE ANY SILT FROM DROP INLET PROTECTION.
7. THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE COVERED TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS, WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON. THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
8. THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF ENGINEER SO REQUESTS, TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LOADED RUNOFF FROM EXITING THE SITE.
9. THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.
10. THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
11. THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT METHOD OF STABILIZATION.
12. THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES. MEASURES AND STRUCTURES, ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LOADED RUNOFF FROM EXITING THE SITE.
13. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLANS FOR TREE PROTECTION FENCE LOCATIONS AND DETAILS.
14. THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
15. THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
16. SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.
17. THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.



- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
-INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
-INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
-DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
-DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
-CLEARING AND GRUBBING
-INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS
-EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
-CONSTRUCTION OF UTILITIES
-INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
-CONSTRUCTION OF ARRAY RACKS AND EQUIPMENT PADS.
-CONSTRUCTION OF TRANSFORMERS, ELECTRICAL EQUIPMENT, ARRAY INSTALLATION AND WIRING.
-SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
-FINAL GRADING OF ALL SLOPED AREAS
-PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED, FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
-REMOVAL OF THE TEMPORARY SEDIMENT BASINS AND ACCUMULATED SEDIMENT.
-SCARIFY BASIN BOTTOM TO PREVENT COMPACTION AND PROMOTE INFILTRATION.
-REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER

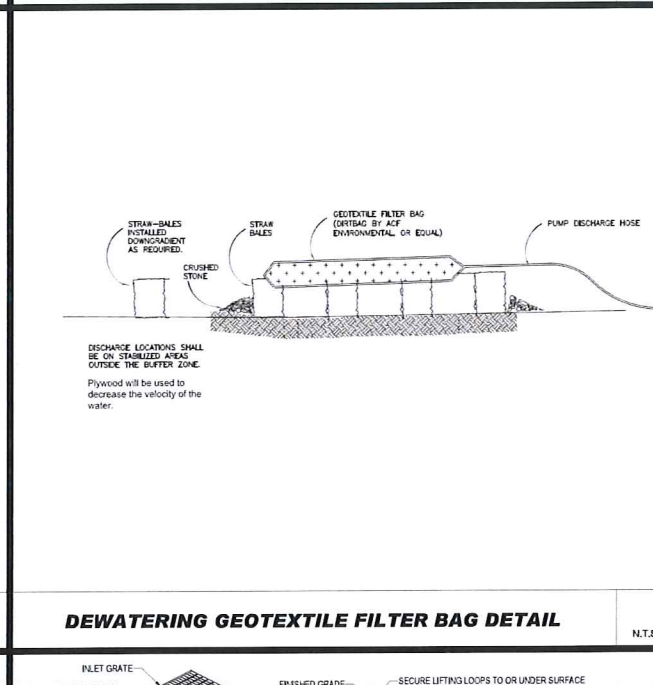
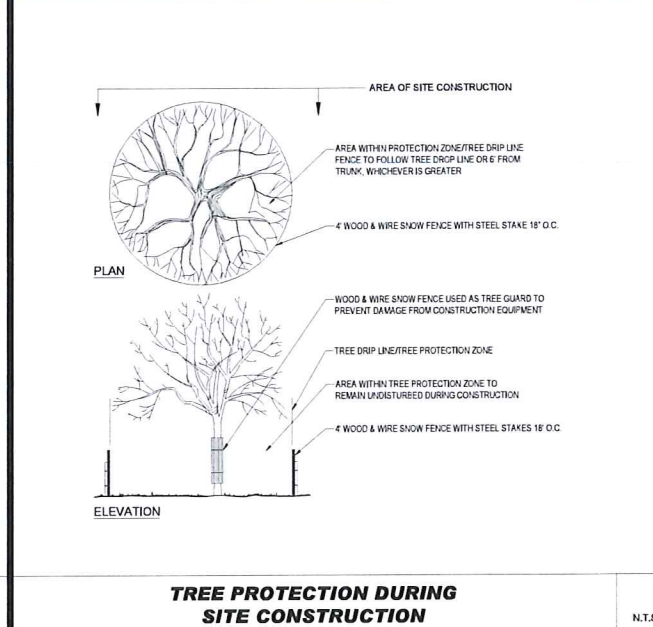
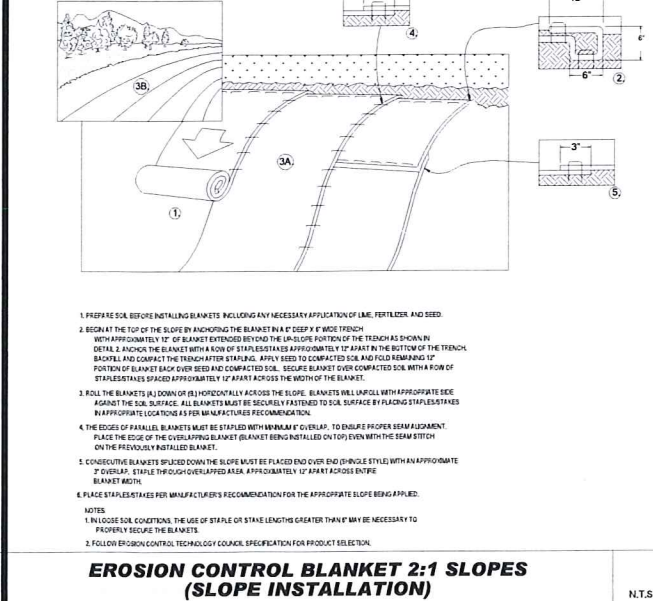
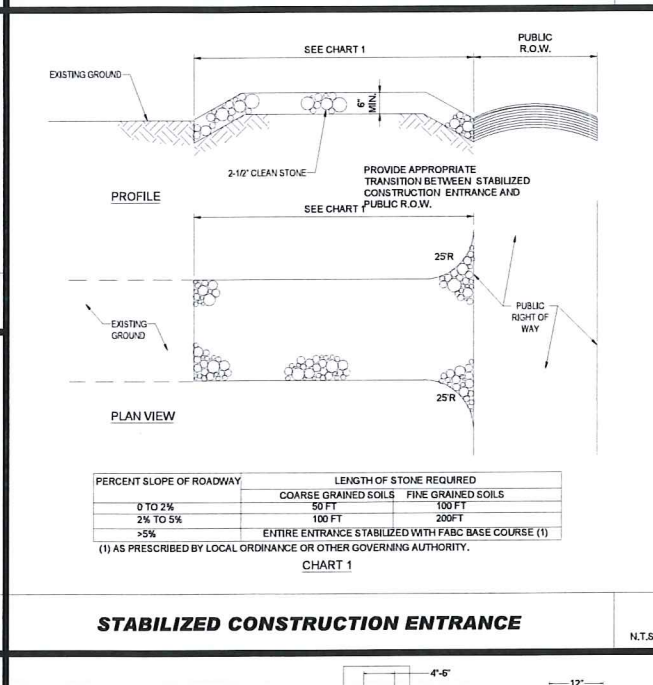


Table with 2 columns: LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE and MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE. Rows include Grab Tensile Strength, Grab Tensile Elongation, Puncture, Mullen Burst, Trapezoid Tear, UV Resistance, Apparent Opening Size, Flow Rate, and Permittivity.

BOHLER logo and company information: SITE CIVIL AND CONSULTING ENGINEERING, LAND SURVEYING, PROGRAM MANAGEMENT, LANDSCAPE ARCHITECTURE, SUSTAINABLE DESIGN, PERMITTING SERVICES, TRANSPORTATION SERVICES.

REVISIONS table with columns: REV, DATE, COMMENT, DRAWN BY, CHECKED BY. Includes revisions for planning board comments and survey updates.

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ISSUE FOR MUNICIPAL & AGENCY REVIEW & APPROVAL. PROJECT No.: W201257, DRAWN BY: EVD/C/MC/OCR, CHECKED BY: GD, DATE: 06/13/2023, CAD ID: W201257-EROS-3A.

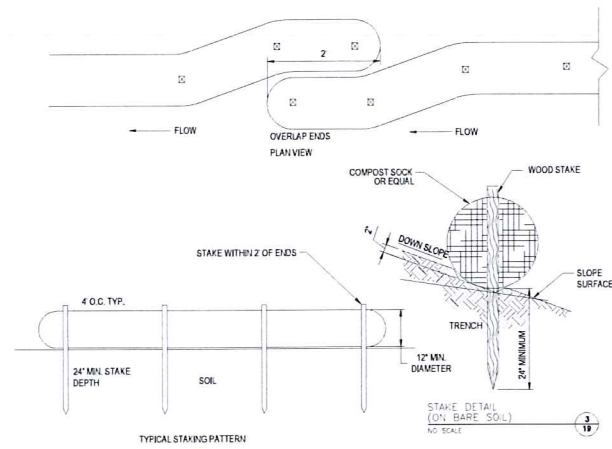
PROPOSED SITE PLAN DOCUMENTS FOR NEXTGRID MESCALBEAN LLC, PROPOSED SOLAR FARM.

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, J 239-010, K 239-012, L 237-36,7, 237-36, E, 239-010, PORTION OF D 239-010, 26-0009. 160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS.

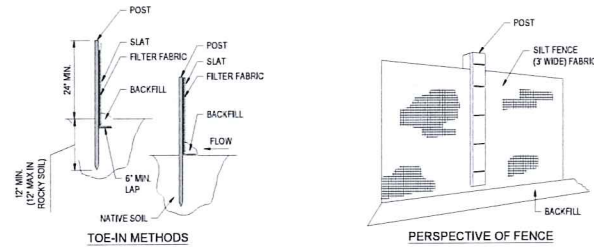
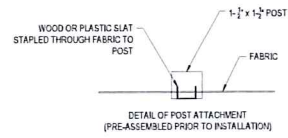
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SHEET TITLE: EROSION & SEDIMENT CONTROL NOTES & DETAILS. SHEET NUMBER: C-608. REVISION 3 - 7/19/2023.

EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SILT FENCE UNLESS OTHERWISE NOTED



COMPOST SOCK



SILT FENCE

- INSTALLATION
1. EXCAVATE A 6" x 6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE.
 2. UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).
 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM.
 4. LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMPING FILL AT THE BASE.
 5. COMBINATION OF COMPOST SOCK AND SILT FENCE SHALL BE USED AS NOTED ON THE PLAN.
 6. WIRE BACK SILT FENCE TO BE USED IN AREAS WITHIN 50 FOOT WETLAND BUFFER. SEE DETAIL (THIS SHEET).

EROSION CONTROL BARRIER (ECB) DETAIL

N.T.S.



REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	GD	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	GD	OCR
3	7/19/2023	PER SURVEY UPDATES	AP	GD



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ISSUED FOR MUNICIPAL & AGENCY REVIEW & APPROVAL

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: V201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD LD.: V201257-ER05-3A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS



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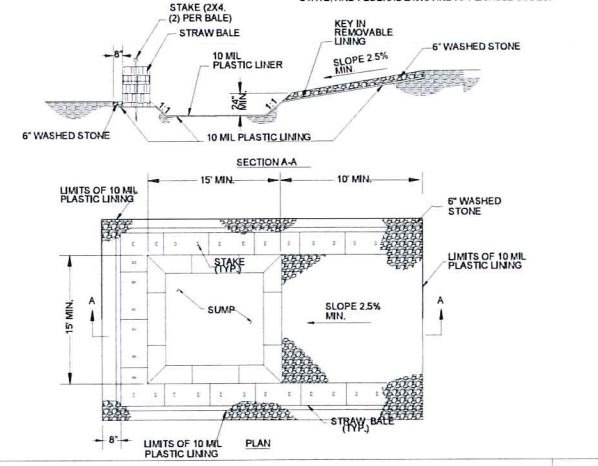


SHEET TITLE:
EROSION & SEDIMENT CONTROL NOTES & DETAILS

SHEET NUMBER:
C-609

REVISION 3 - 7/19/2023

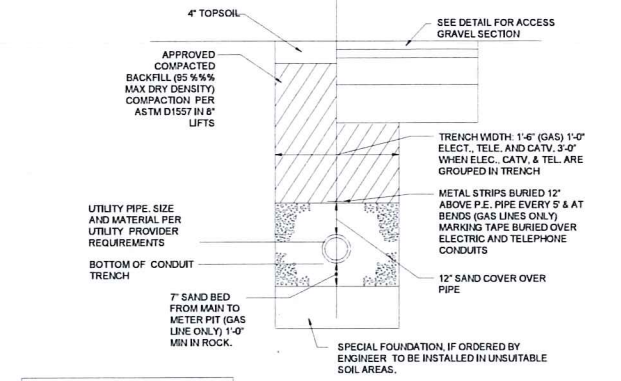
- NOTES:
1. PIT IS SPECIFICALLY DESIGNATED, Diked and impervious facility shall not be filled beyond 95% capacity. Containment to prevent contact between concrete unless a new facility is constructed.
 2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE CUT AND GRINDING TO BE DISPOSED OF IN THE PIT.
 3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN DEBRIS FROM THE VEHICLE WASH AREA SHALL NOT BE DEPOSED ON THE SURFACE. ALL DEBRIS SHALL BE DEPOSED OF IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
 4. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WITHIN 90 DAYS OF CONSTRUCTION.
 5. SAW CUT PORTLAND CEMENT CONCRETE RESIDUE FROM WASHOUT DEVICES SHALL NOT BE DEPOSED ON THE SURFACE. ALL DEBRIS SHALL BE DEPOSED OF IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.



CONCRETE WASHOUT DETAIL

N.T.S.

- NOTE: THE CONTRACTOR IS DIRECTED AND RESPONSIBLE TO SLOPE AND/OR SHIELD THE TRENCH EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE OSHA REGULATIONS.

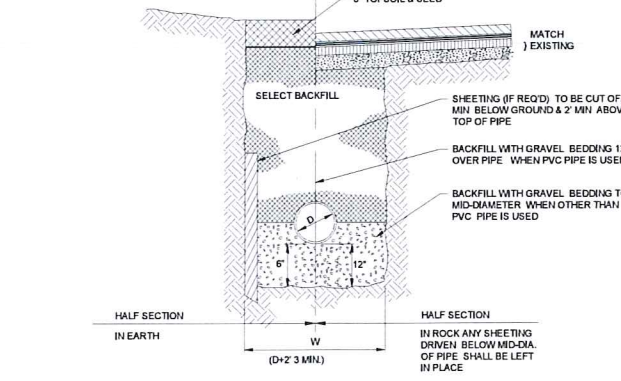


- NOTE: ALL PROPOSED UNDERGROUND UTILITIES THAT FALL WITHIN THE EXISTING ELECTRIC EASEMENTS SHALL BE AASHTO HS-25 RATED.

ALTERNATIVE ELECTRICAL TRENCH DETAIL

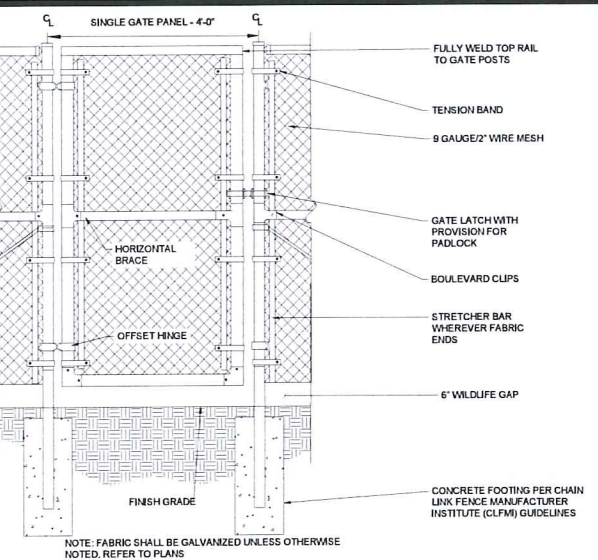
N.T.S.

- UNPAVED PAVED



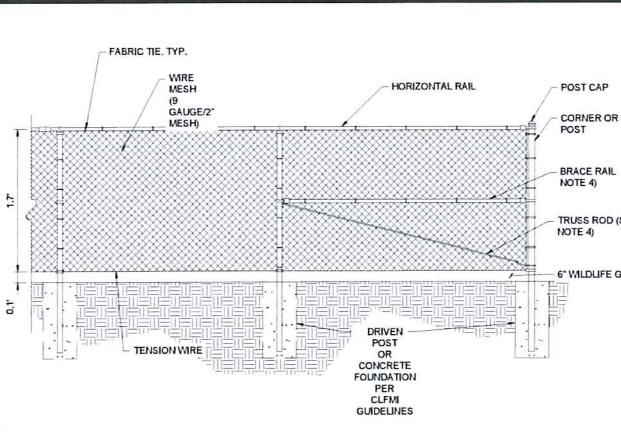
TYPICAL UTILITY TRENCH

N.T.S.



7' ACCESS GATE WITH WILDLIFE GAP

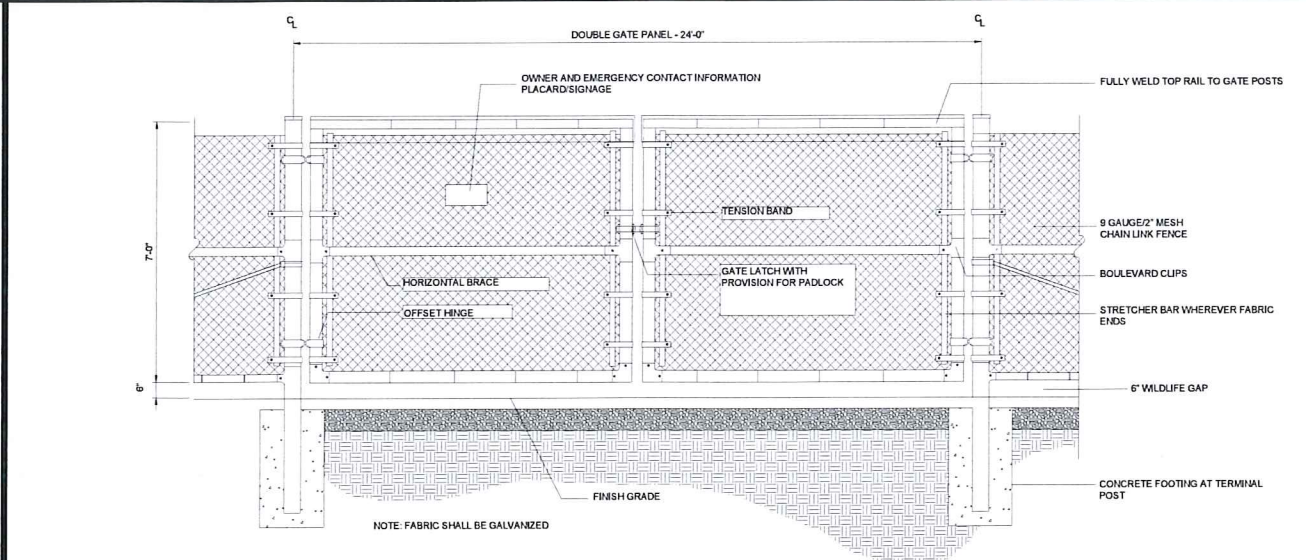
N.T.S.



- NOTES:
1. THE FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER INSTITUTE (CLFMI) GUIDELINES AND RELATED FEDERAL SPECIFICATIONS FOR SECURITY CHAIN LINK FENCE MATERIALS AND INSTALLATION.
 2. FENCE MATERIAL AND COMPONENTS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
 3. THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
 4. ADJUSTABLE TRUSS ROD AND BRACE RAIL AT CORNER OR END POSTS ONLY, IF REQUIRED BY CLFMI GUIDELINES.

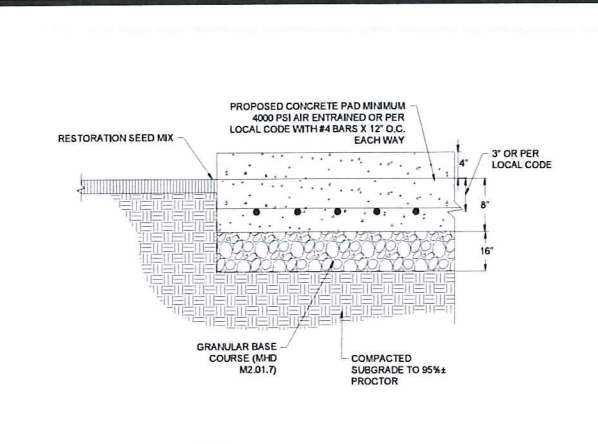
7' CHAIN LINK FENCE WITH WILDLIFE GAP

N.T.S.



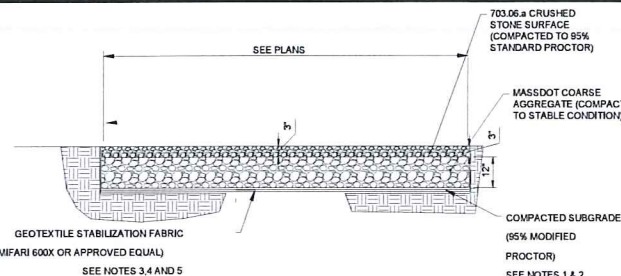
24' WIDE DOUBLE SWING GATE WITH WILDLIFE GAP

N.T.S.



CONCRETE PAD FOR EQUIPMENT

N.T.S.

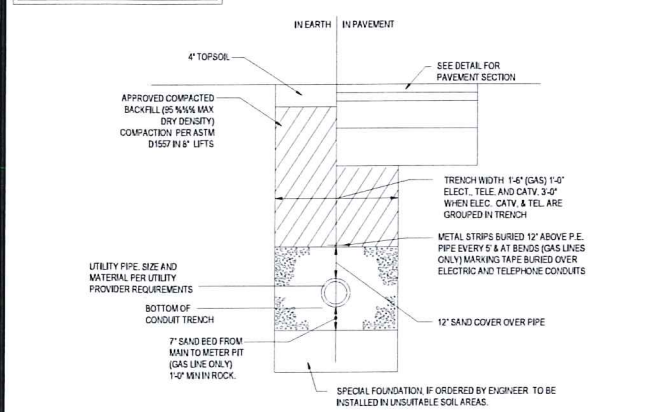


- NOTES:
1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
 2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. (95% MODIFIED PROCTOR). 3RD PARTY COMPACTION TESTING IS REQUIRED AT GRAVEL ACCESS ROAD AS FURTHER NOTED PER ADDITIONAL NOTE 13.2 ON SHEET C-0.0. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION CRITERIA.
 3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
 4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
 5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
 6. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOTEXTILE MATERIAL. THE GEOTEXTILE SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.
 7. THE PROPOSED ACCESS ROAD SHALL HAVE A MAXIMUM RUNNING SLOPE OF 10%. PLEASE REFER TO THE GRADING PLAN FOR MORE INFORMATION.

ACCESS GRAVEL ROAD

N.T.S.

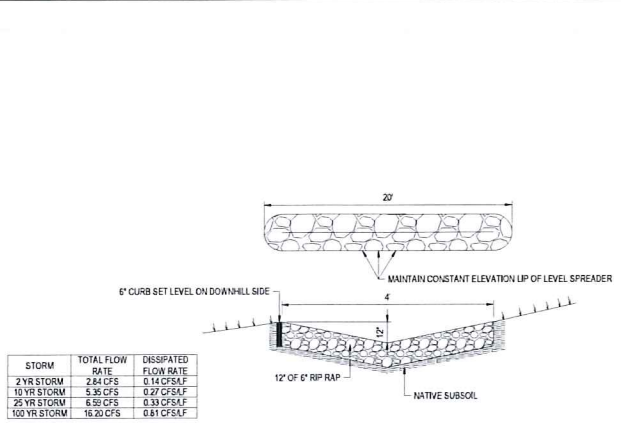
- NOTE: THE CONTRACTOR IS DIRECTED AND RESPONSIBLE TO SLOPE AND/OR SHIELD THE TRENCH EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE OSHA REGULATIONS.



- NOTE: ALL PROPOSED UNDERGROUND UTILITIES THAT FALL WITHIN THE EXISTING ELECTRIC EASEMENTS SHALL BE AASHTO HS-25 RATED

PRIMARY ELECTRICAL TRENCH DETAIL

N.T.S.



STORM	TOTAL FLOW RATE	DESPICATED FLOW RATE
2 YR STORM	2.84 CFS	0.14 CFS/4"
10 YR STORM	5.35 CFS	0.27 CFS/4"
25 YR STORM	6.92 CFS	0.33 CFS/4"
100 YR STORM	16.20 CFS	0.81 CFS/4"

LEVEL SPREADER

N.T.S.

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DESIGNED BY	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR	GD
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PROJECT No.: W201257
 DRAWN BY: EVD / CMC / OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD L.D.: W201257-DET-3A

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

BOHLER
 352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
 www.BohlerEngineering.com

J. A. BOHLER
 CIVIL ENGINEER
 No. 41530
 REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-902

REVISION 3 - 7/19/2023

REVISIONS

REV	DATE	COMMENT	DRAWN	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	GD	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	GD	OCR
3	7/19/2023	PER SURVEY UPDATES	AP	GD



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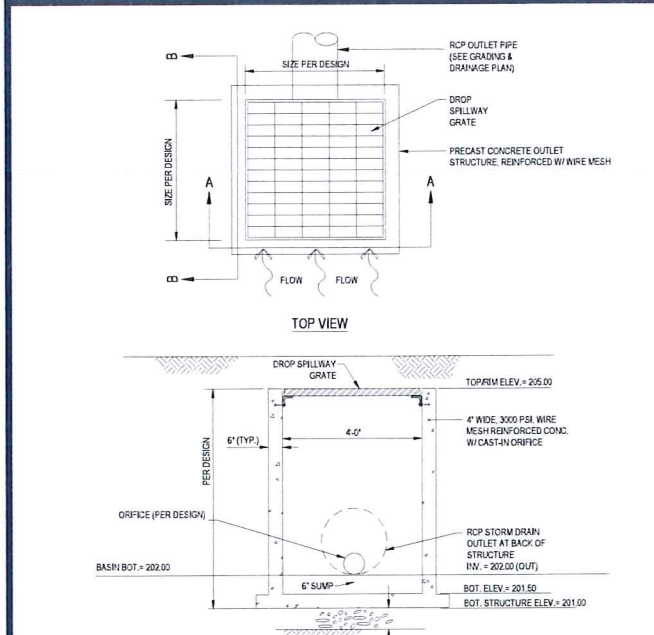
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160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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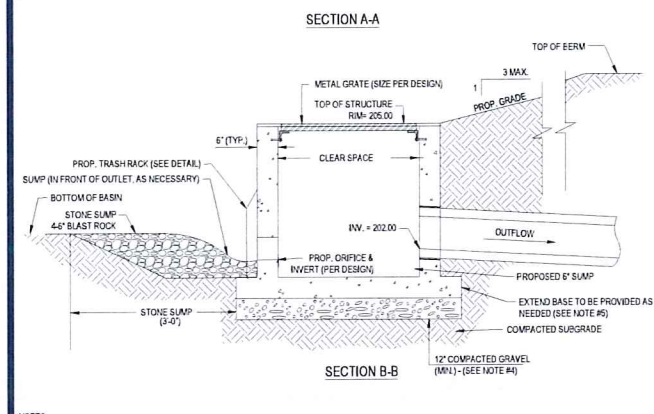
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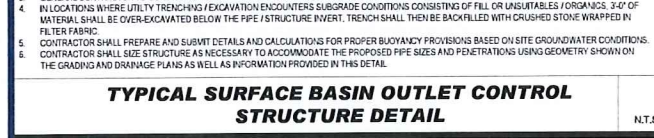
SHEET TITLE:
DETAIL SHEET
 SHEET NUMBER:
C-902
 REVISION 3 - 7/19/2023



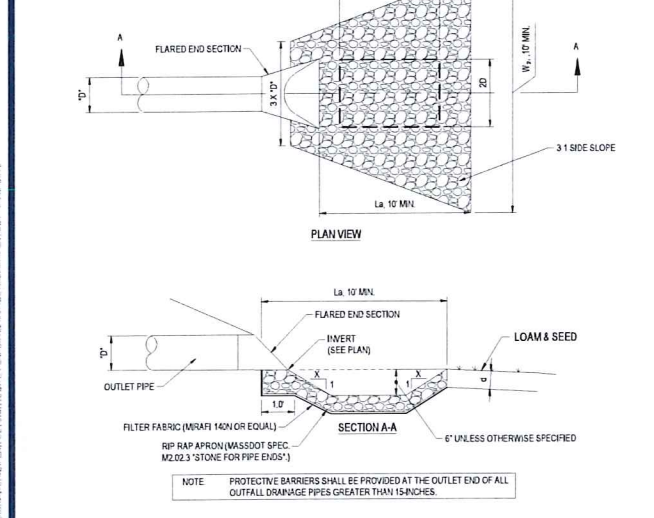
TYPICAL SURFACE BASIN OUTLET CONTROL STRUCTURE DETAIL N.T.S.



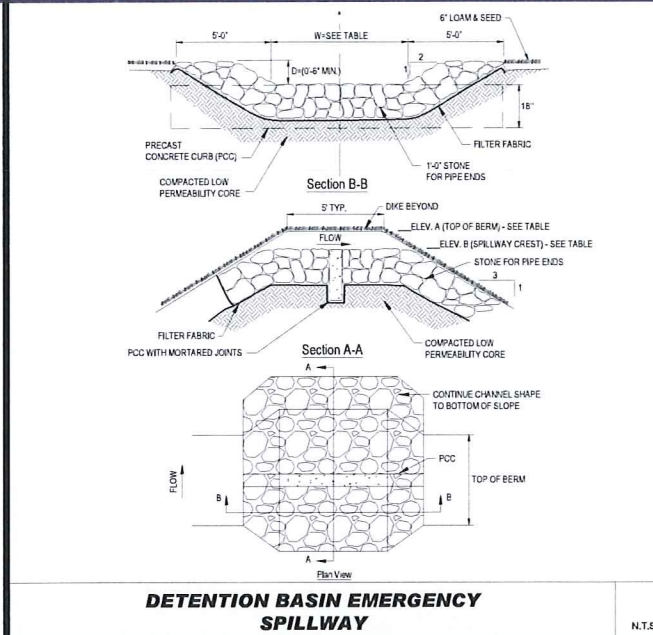
TRASH RACK DETAIL N.T.S.



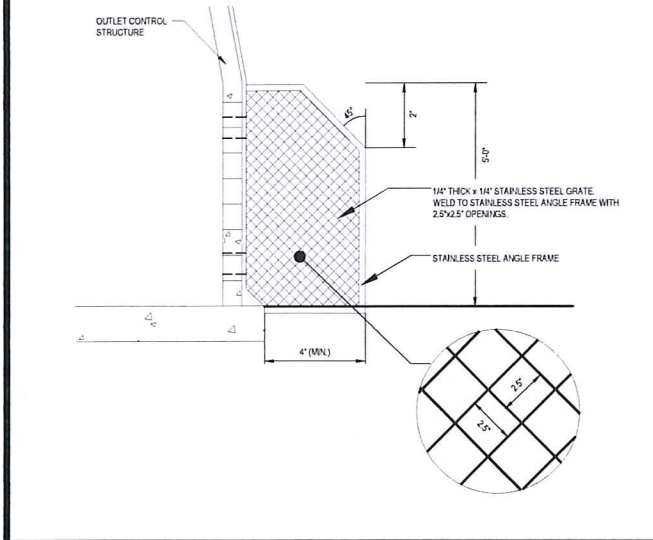
SLOPE SEED MIX SPECIFICATIONS N.T.S.



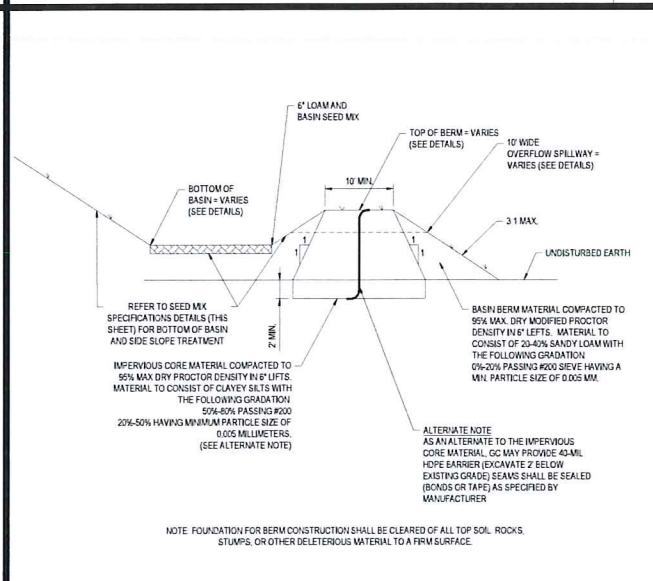
FLARED END SECTION WITH RIPRAP APRON / SCOUR HOLE DETAIL N.T.S.



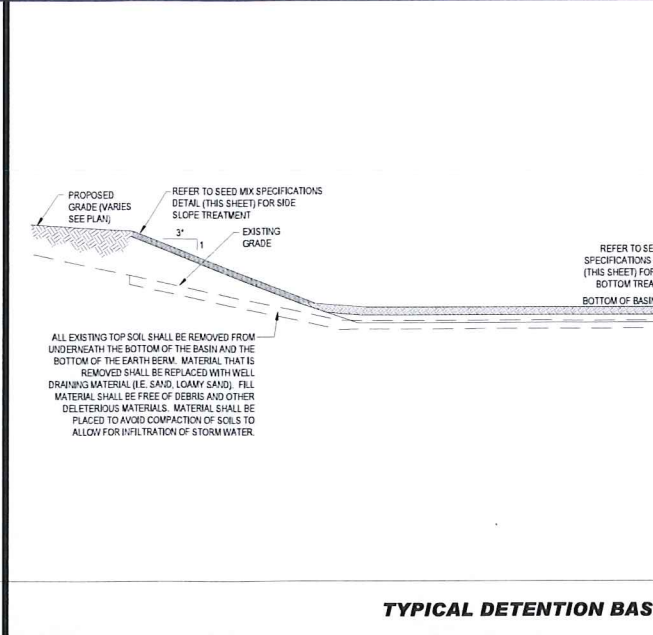
DETENTION BASIN EMERGENCY SPILLWAY N.T.S.



BASIN IMPERVIOUS CORE DETAIL N.T.S.



ROCK CHECK DAM N.T.S.



TYPICAL DETENTION BASIN CROSS SECTION DETAIL N.T.S.

BASIN SEED MIX SPECIFICATIONS N.T.S.

NATIVE DETENTION AREA MIX AS PREPARED BY:
 ERNST CONSERVATION SEEDS, INC.
 8884 MERCER PIKE, MEADVILLE, PA 16335
 PHONE: 800-873-3321 / 814-336-2404
 EMAIL: SALES@ERNSTSEED.COM
 WEBSITE: WWW.ERNSTSEED.COM

APPLICATION RATE: 1/2 LB. / 1000 SQ. FT. (20 LBS. / ACRE)

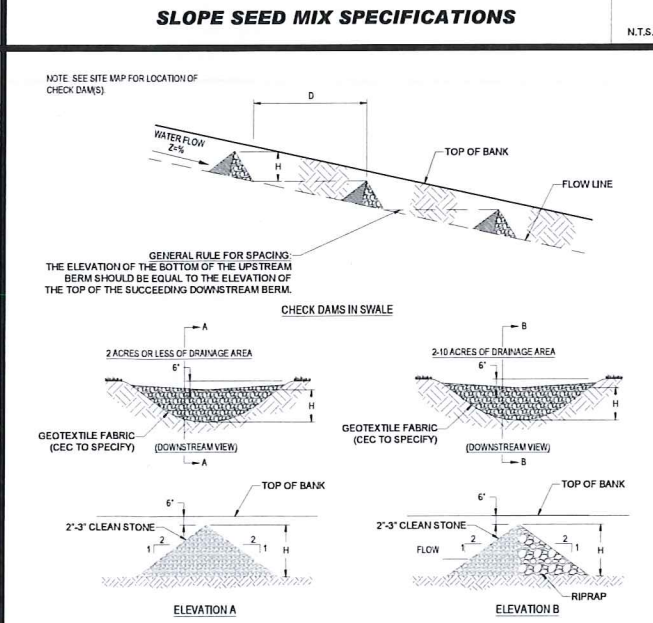
MIX COMPOSITION:
 25.0% PANICUM VIRGATUM, 'SHELTER' (SWITCHGRASS, 'SHELTER')
 24.0% PANICUM CLANDESTINUM, 'TIOGA' (DEERTONGUE, 'TIOGA')
 22.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
 21.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
 6.0% AGROSTIS PERENNANS, ALBANY PINE BUSH-HY ECOTYPE (AUTUMN BENTGRASS ALBANY PINE BUSH-HY ECOTYPE)
 1.0% JUNCUS EFFUSUS (SOFT RUSH)
 1.0% PANICUM RIGIDULUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)

SLOPE SEED MIX SPECIFICATIONS N.T.S.

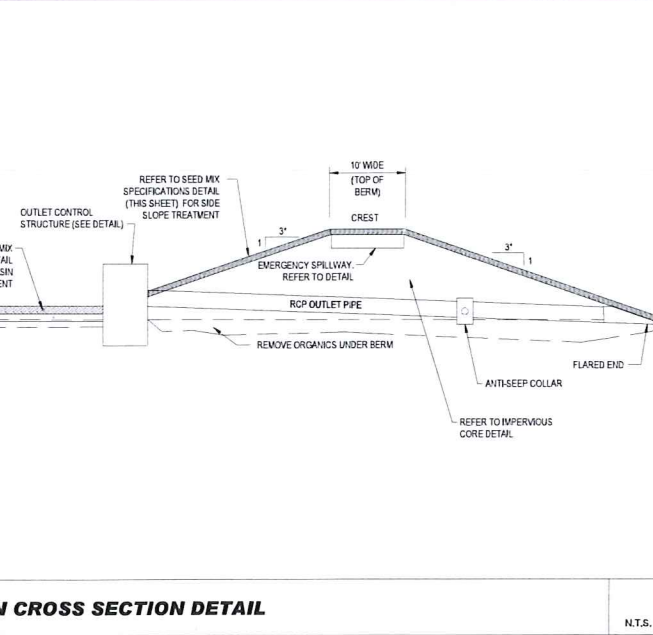
QUICK EROSION CONTROL COVER MIX AS PREPARED BY:
 ERNST CONSERVATION SEEDS, INC.
 8884 MERCER PIKE, MEADVILLE, PA 16335
 PHONE: 800-873-3321 / 814-336-2404
 EMAIL: SALES@ERNSTSEED.COM
 WEBSITE: WWW.ERNSTSEED.COM

APPLICATION RATE: 50 LBS. / ACRE

MIX COMPOSITION:
 50.0% Lolium multiflorum (Annual Ryegrass)
 50.0% Lolium perenne, 'Blackcat II' (Perennial Ryegrass)



NEW ENGLAND SHOWY WILDFLOWER SEED MIX SPECIFICATIONS N.T.S.



NEW ENGLAND SHOWY WILDFLOWER SEED MIX SPECIFICATIONS N.T.S.

NEW ENGLAND SHOWY WILDFLOWER SEED MIX AS PREPARED BY:
 NEW ENGLAND WETLAND PLANTS, INC.
 820 WEST STREET, AMHERST, MA 01002
 PHONE: 413-540-8000
 EMAIL: INFO@NEWP.COM
 WEBSITE: WWW.NEWP.COM

APPLICATION RATE: 23 lbs/acre | 1900 sq ft/b

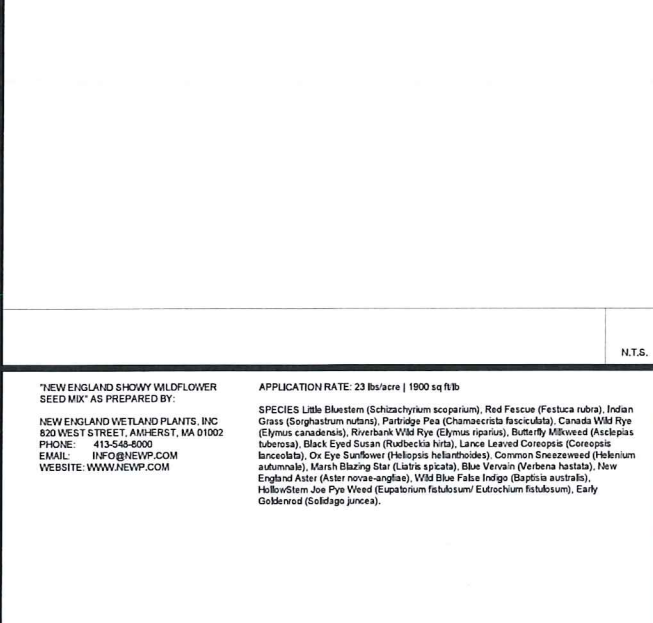
SPECIES: Little Bluestem (Schizachyrium scoparium), Red Fescue (Festuca rubra), Indian Grass (Sorghastrum nutans), Partridge Pea (Chamaecrista fasciculata), Canada Wild Rye (Elymus canadensis), Riverbank Wild Rye (Elymus riparius), Butterfly Milkweed (Asclepias tuberosa), Black-eyed Susan (Rudbeckia hirta), Large Leaved Conehead (Coreopsis lanceolata), Oz Eye Sunflower (Helopsis helianthoides), Common Sneezeweed (Helenium autumnale), Marsh Blazing Star (Lobelia spicata), Blue Vervain (Verbena hastata), New England Aster (Aster novae-angliae), Wild Blue Fatsia Indigo (Baptisia australis), Hollowstem Joe Pye Weed (Eupatorium fistulosum) Eudrochium fistulosum, Early Goldenrod (Solidago juncea).

SLOPE SEED MIX SPECIFICATIONS N.T.S.

QUICK EROSION CONTROL COVER MIX AS PREPARED BY:
 ERNST CONSERVATION SEEDS, INC.
 8884 MERCER PIKE, MEADVILLE, PA 16335
 PHONE: 800-873-3321 / 814-336-2404
 EMAIL: SALES@ERNSTSEED.COM
 WEBSITE: WWW.ERNSTSEED.COM

APPLICATION RATE: 50 LBS. / ACRE

MIX COMPOSITION:
 50.0% Lolium multiflorum (Annual Ryegrass)
 50.0% Lolium perenne, 'Blackcat II' (Perennial Ryegrass)



ROCK CHECK DAM N.T.S.

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
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PROJECT No.: W201257
 DRAWN BY: EVD/CUC/OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD LD.: W201257-DETL-3A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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 SOUTHBOROUGH, MA 01772
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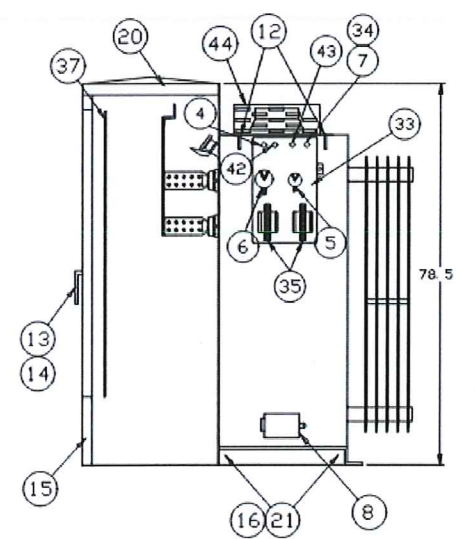
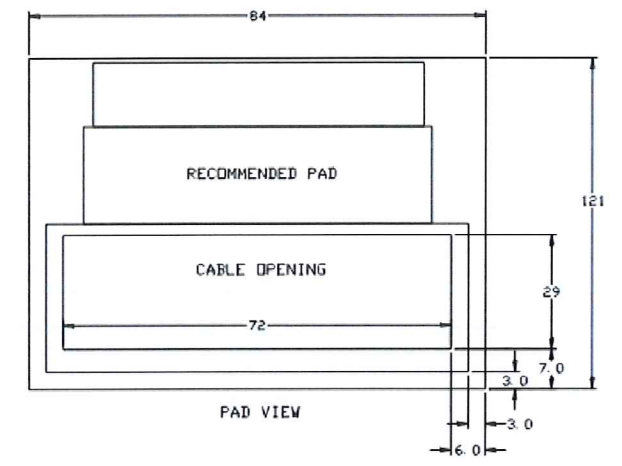
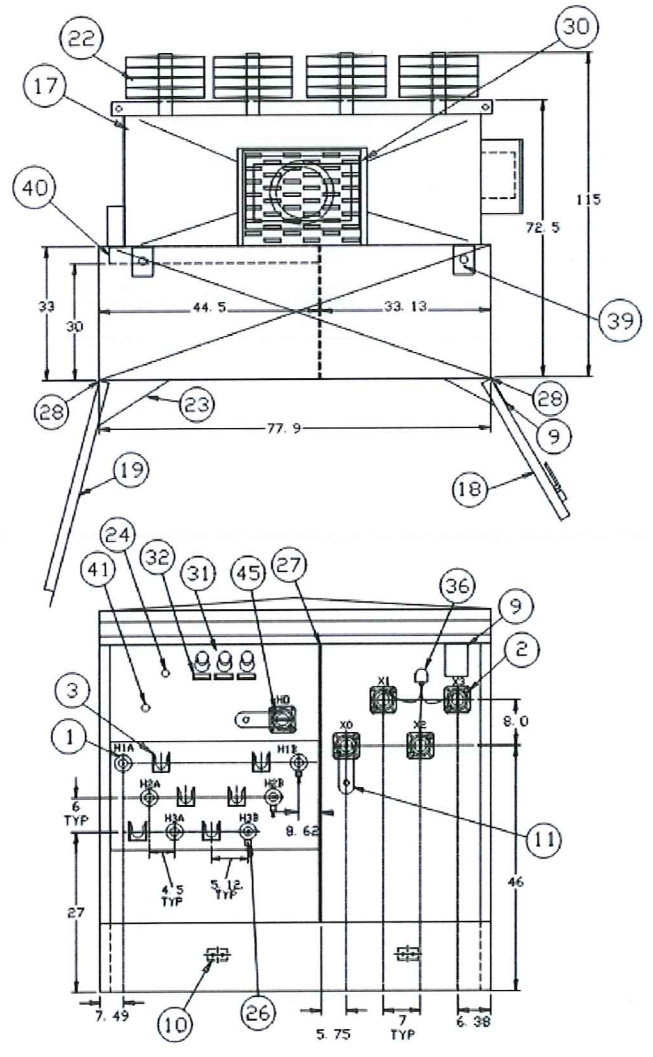


SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:
C-904

REVISION 3 - 7/19/2023



THIS OUTLINE IS FOR ERECTION OR MOUNTING PURPOSES. IT IS NOT TO SCALE AND SHOULD NOT BE REGARDED AS INDICATING THE EXACT DETAILS OF CONSTRUCTION.

- 01 HIGH VOLTAGE BUSHING NON-LOADBREAK 600AMP 125KV BIL (EATON DB625B125)
- 02 LOW VOLTAGE INTEGRAL EPOXY BUSHING WITH 10 HOLE IEEE BRASS SPADE, SUPPORTED.
- 03 PARKING STAND
- 04 PRESSURE RELIEF VALVE (VIAT 302-060-010)
- 05 LIQUID LEVEL GAUGE W/CONTACTS (2 SETS) VIAT
- 06 OIL TEMPERATURE GAUGE W/CONTACTS (2 SETS) QUALITROL
- 07 OIL FILL - 1" NPT
- 08 OIL DRAIN VALVE WITH SAMPLER IN PADLOCKABLE BOX
- 09 NAMEPLATES
- 10 2 HOLE SST. GROUND PADS
- 11 LV GROUND STRAP
- 12 LIFTING LUGS
- 13 PADLOCK FACILITY AND DOOR BOLT WITH PENTAHEAD BOLTS
- 14 LV DOOR HANDLE
- 15 REMOVEABLE FRONT LOWER SILL
- 16 BASE ARRANGEMENT FOR ROLLING IN 2 DIRECTIONS
- 17 TRANSFORMER TANK
- 18 LOW VOLTAGE COMPARTMENT DOOR
- 19 HIGH VOLTAGE COMPARTMENT DOOR
- 20 DOMED & RAISED AIR COMPARTMENT TOP
- 21 JACKING PROVISIONS
- 22 COOLING RADIATORS
- 23 DOOR HOLDING BARS IN 120° OPEN POSITION
- 24 TAPCHANGER "B" TAPS +5%, +2.5%, -2.5%, -5%
- 25 200KV BIL 150 AMP SILVER PLATED (CAPT 099-04.87.315RFM-AH)
- 26 DISTRIBUTION CLASS ELBOW ARRESTER 10KV 8.4 MCOV 25CL 600AMP (SHIPPED DETAIL ON PALLET) (T&B K655ESA-10)
- 27 HIGH-LOW BARRIER
- 28 STAINLESS STEEL HINGES
- 29 ALL BUSHINGS ARE EXTERNALLY CLAMPED
- 30 14"x24" HANDHOLE
- 31 BAYONET FUSEHOLDER W/FLAPPER VALVE AG PLATED BAYONET FUSE HI-AMP 125A (EATON 403B361C05CB)
- 32 PLASTIC DRIPSHIELD
- 33 PADLOCK-ABLE GAUGE BOX
- 34 PRESSURE VACUUM GAUGE WITH SCHRADER VALVE (VIAT 131)
- 35 TERMINAL BLOCKS FOR CONTACT TERMINATION 2-18 TERMINAL
- 36 SECONDARY ARRESTER 400MCOV (EATON AS2H480C301)
- 37 LEXAN LOW VOLTAGE FRONT BARRIER
- 38 PARTIAL RANGE CURRENT LIMITING FUSES 8.3KV 150A HITECH 2X(HTSS232150)
- 39 HOLD-DOWN BRACKETS WITH HOLES.
- 40 3" HIGH VOLTAGE BUSHING BDX.
- 41 2-POSITION LOAD-BREAK SWITCH (C. M. 703436-60)
- 42 GEN PRESSURE SWITCH FACTORY SET TO +7PSI
- 43 GEN VACUUM SWITCH FACTORY SET TO -5PSI
- 44 COVER MOUNTED PRD 10PSI
- 45 PORCELAIN "HD" BUSHING WITH GROUND STRAP SHIPPED WITH NITROGEN BLANKET.

2000/2240 KVA
 12470GrdY/7200
 600Y/347
 * PER IEEE, LV LEXAN/FIBERGLASS BARRIER REQUIRED, @ IS INCLUDED

2000KVA 12470Y TRANSFORMER DETAILS

N.T.S.

Three-Phase Transformers
CA202003EN

Effective April 2016
Supersedes 210-12 July 2015

COOPER POWER SERIES

Three-phase pad-mounted compartmental type transformer



General

At Eaton, we are constantly striving to introduce new innovations to the transformer industry, bringing you the highest quality, most reliable transformers. Eaton's Cooper Power Series Transformer Products are ISO 9001 compliant, emphasizing process improvement in all phases of design, manufacture, and testing. In order to drive this innovation, we have invested both time and money in the Thomas A. Edison Technical Center, our premier research facility in Franklinville, Wisconsin. Such revolutionary products as distribution-class UltraSIL™ Polymer Housed Evolution™ surge arresters and Envirotemp™ FR3™ fluid have been developed at our Franklinville lab.

With transformer sizes ranging from 45 kVA to 12 MVA and high voltages ranging from 2400 V to 48 kV, Eaton has you covered! From fabrication of the tanks and cabinets to winding of the cores and coils, to production of arresters, switches, tap changers, explosion fuses, current limit fuses, bushings (live and dead) and molded rubber goods, Eaton does it all. Eaton's Cooper Power Series transformers are available with electrical grade mineral oil or Envirotemp™ FR3™ fluid, a less flammable and biodegradable fluid. Electrical codes recognize the advantages of using Envirotemp™ FR3™ fluid both indoors and outdoors for fire sensitive applications. The bi-based fluid meets Occupational Safety and Health Administration (OSHA) and Section 450.23 NEC Requirements.



Three-phase pad-mounted compartmental type transformer Catalog Data CA202003EN Effective April 2016

Table 2. Three-Phase Ratings
Three-Phase 50 or 60 Hz

Rating (kVA)	2400 V	2400 & through 4800 Δ	6900 Δ through 13800GV/7970 or 13800 Δ
45-75	2,705-75	2,705-75	2,705-75
112.5-500	3,135-75	3,135-75	3,135-75
500	4,355-75	4,355-75	4,355-75
750-2500	5-75	5-75	5-75
3750	5-75	5-75	6-00
7500	6-00	6-00	6-50

Note: The standard tolerance is a 75%.

Table 3. Impedance Voltage

Rating (kVA)	Low-voltage rating		
	< 600 V	2400 & through 4800 Δ	6900 Δ through 13800GV/7970 or 13800 Δ
45-75	7.75-7.5	7.75-7.5	7.75-7.5
112.5-500	3.135-7.5	3.135-7.5	3.135-7.5
500	4.355-7.5	4.355-7.5	4.355-7.5
750-2500	5-7.5	5-7.5	5-7.5
3750	5-7.5	5-7.5	6-00
7500	6-00	6-00	6-50

Note: The standard tolerance is a 75%.

Table 4. Audible Sound Levels

Self-Cooled, Two Winding kVA Rating	NEMA TR-1 Average	
	Decibels (dB)	dB(A)
45-500	50	50
501-750	51	51
751-1000	52	52
1001-1500	60	60
1501-2000	61	61
2001-2500	62	62
2501-3000	63	63
3001-4000	64	64
4001-5000	65	65
5001-6000	66	66
6001-7500	67	67
7501-10000	68	68

Table 5. Insulation Test Levels

kV Class	Insulated Test 100 or 400 Hz 7200 Cycles	kV BR Distribution	Applied Test 60 Hz (kV)
1.2	30	10	10
2.5	45	15	15
5	60	20	20
8.7	75	26	26
15	95	34	34
25	125	40	40
34.5	150	50	50

Table 6. Temperature Rise Ratings 0-3300 Feet (0-1000 meters)

Unit Rating (Temperature Rise Winding)	Standard	Optional
Ambient Temperature Max	40 C	55 C, 55-65 C, 75 C
Ambient Temperature 24 Hour Average	30 C	40 C
Temperature Rise Hotspot	80 C	65 C

www.eaton.com/cooperpowerseries

Catalog Data CA202003EN Three-phase pad-mounted compartmental type transformer Effective April 2016

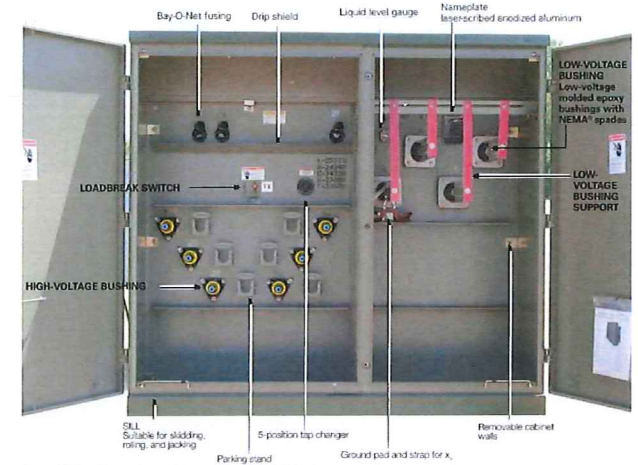


Figure 1. Three-phase pad-mounted compartmental type transformer.

Table 1. Product Scope

Type	Three Phase, 50 or 60 Hz, 60 C Rise
Fluid Type	Mineral oil or Envirotemp™ FR3™ fluid
Coil Configuration	2 winding or 4 winding or 3 winding (Low-High-Low), 3 winding (Low-Low-High)
Size	45-10,000 kVA
Primary Voltage	2,400-48,000 V
Secondary Voltage	200/120 V to 14,400 V
Specialty Designs	Inverter/Facility Bridge, K-Factor (up to K-13), Vacuum Fault Interrupter (VFI), UL® Listed & Labeled and Classified, Factory Mutual (FM) Approved™, Safe/Wired Design, Differential Protection, Seismic Applications (Including CDFPD), Hardened Data Center

www.eaton.com/cooperpowerseries

Catalog Data CA202003EN Three-phase pad-mounted compartmental type transformer Effective April 2016

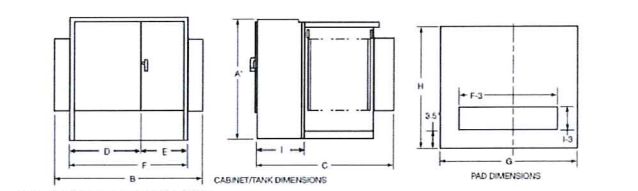


Figure 2. Transformer and pad dimensions.

Table 7. Fluid-filled - aluminum windings 55/65 °C Rise*

kVA Rating	OUTLINE DIMENSIONS (in.)									Gallons of Fluid	Approx. Total Weight (lbs.)
	A*	B	C	D	E	F	G	H	I		
45	50	60	39	42	26	68	72	43	20	116	2,100
75	50	60	39	42	26	68	72	43	20	115	2,200
112.5	50	60	39	42	26	68	72	43	20	108	2,200
150	50	60	39	42	26	68	72	43	20	125	2,700
225	50	72	51	42	30	72	76	55	20	140	3,150
300	50	72	51	42	30	72	76	55	20	150	3,850
500	50	80	53	42	30	72	80	57	20	190	4,650
750	64	85	57	42	30	72	83	61	20	220	6,500
1000	64	85	57	42	30	72	83	61	20	260	8,200
1500	72	89	66	42	30	72	90	64	24	416	13,300
2000	72	89	66	42	30	72	90	64	24	480	17,500
2500	72	89	66	42	30	72	90	64	24	530	18,500
3000	72	89	66	42	30	72	90	64	24	600	19,500
3750	84	95	108	47	38	85	88	68	24	660	19,500
5000	84	95	108	47	38	85	88	68	24	900	25,000
7500	94	102	122	54	48	102	106	76	24	1,500	41,800

* Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

* Add 8" for Bay-O-Net fusing.

Table 8. Fluid-filled - Copper Windings 55/65 °C Rise*

kVA Rating	OUTLINE DIMENSIONS (in.)									Gallons of Fluid	Approx. Total Weight (lbs.)
	A*	B	C	D	E	F	G	H	I		
45	50	60	39	42	26	64	68	43	20	115	2,100
75	50	60	39	42	26	64	68	43	20	115	2,100
112.5	50	60	39	42	26	64	68	43	20	115	2,200
150	50	60	39	42	26	64	68	43	20	130	2,700
225	50	60	39	42	26	64	68	43	20	140	3,200
300	50	60	39	42	26	64	68	43	20	150	3,800
500	50	60	39	42	26	64	68	43	20	200	4,800
750	64	85	57	42	30	72	76	55	20	250	6,500
1000	64	85	57	42	30	72	76	55	20	300	7,800
1500	72	89	66	42	30	72	80	61	24	410	13,300
2000	72	89	66	42	30	72	80	61	24	470	17,500
2500	72	89	66	42	30	72	80	61	24	520	18,500
3000	72	89	66	42	30	72	80	61	24	600	19,500
3750	84	95	108	47	38	85	88	68	24	660	19,500
5000	84	95	108	47	38	85	88	68	24	900	25,000
7500	94	102	122	54	48	102	106	76	24	1,600	41,800

* Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

* Add 8" for Bay-O-Net fusing.

THREE-PHASE PAD-MOUNTED COMPARTMENTAL TYPE TRANSFORMER

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	OCR
3	7/19/2023	PER SURVEY UPDATES	AP

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD L.D.:	W201257-DET1-3A

PROPOSED SITE PLAN DOCUMENTS
FOR
NEXTGRID MESCALBEAN LLC
PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009 160 MAPLE STREET.

TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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Phone: (508) 480-9900
www.BohlerEngineering.com

JOHN A. KUCZKOWSKI
CIVIL ENGINEER
No. 41530
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-905

REVISION 3 - 7/19/2023

AstroTwins™

Enjoy the Energy of the Universe



400W~415W
P-type Monocrystalline PV Module
CHSM72M(DG)/F-BH Series (158.75)

Tier 1	No. 1	ONY GL
12 Year Warranty for Materials and Processing	30 Year Warranty for Extra Lower Power Output	100% Pass Rate

- KEY FEATURES**
- 5W OUTPUT POSITIVE TOLERANCE**
Guaranteed 0~5W positive tolerance ensures power output reliability
 - EXCELLENT WEATHER RESISTANCE**
Reduces the cell micro-crack and extended product warranty
 - BIFACIAL POWER**
The backside makes use of the reflected and scattered light from the surroundings, the modules can yield up to 5%~20% power more depending on the albedo.
 - REDUCE INTERNAL MISMATCH LOSS**
Reduce mismatch loss and improve output.
 - APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS**
The wide range of applications, such as BIPV, vertical installation, snow area, high humidity area and strong sandstorm area, etc.
 - SNAIL TRAIL RESISTANCE**
Reduces the probability of snail trails with zero water vapor transmittance.



First solar company which passed the TUV Nord IEC 62443 certification audit.

For Global Market

ELECTRICAL SPECIFICATIONS

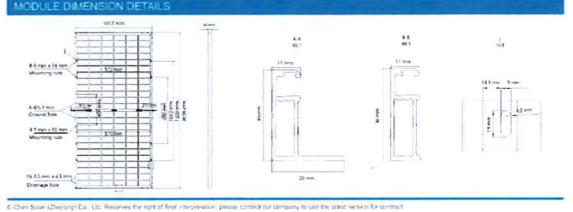
Power rating (P _{max})	100Wp	150Wp	200Wp	250Wp	300Wp	350Wp	400Wp	415Wp
String condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P _{max})	400	282	405	285	410	285	415	290
Rated voltage (V _{MPP}) at STC	40.67	40.88	40.89	41.10	41.10	41.31	41.31	41.52
Rated current (I _{MPP}) at STC	9.84	6.95	9.91	6.94	9.96	6.99	10.06	7.04
Open circuit voltage (V _{OC}) at STC	48.24	48.82	48.42	48.89	48.60	47.17	48.75	47.34
Short circuit current (I _{SC}) at STC	10.30	7.22	10.34	7.23	10.46	7.33	10.54	7.39
Module efficiency	19.4%	19.7%	19.7%	19.7%	19.7%	19.7%	19.7%	19.7%
Temperature coefficient (P _{max})	-0.36%/°C							
Temperature coefficient (V _{OC})	-0.46%/°C							
Temperature coefficient (I _{SC})	+0.29%/°C							
Normal module operating temperature (NOCT)	44±2°C							
Maximum system voltage (EGUL)	1500V _{DC}							
Number of cells	72							
Junction box IP rating	IP 68							
Maximum series fuse rating	20 A							

ELECTRICAL SPECIFICATIONS (Integrated power)

%	Power	V _{MPP}	I _{MPP}	V _{OC}	I _{SC}
5%	431 Wp	41.10 V	10.47 A	48.60 V	10.58 A
10%	451 Wp	41.10 V	10.97 A	48.60 V	11.51 A
15%	472 Wp	41.00 V	11.56 A	48.70 V	12.63 A
20%	492 Wp	41.00 V	12.05 A	48.70 V	12.85 A
25%	513 Wp	41.00 V	12.50 A	48.70 V	13.68 A

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2034 x 1016 x 30 mm
Frame technology	Aluminum alloy (anodized)
Glass thickness	2.0 mm
Cable length (IECUL)	Positive: 300 mm Negative: 300 mm
Cable diameter (IECUL)	4 mm ² / 12 AWG
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IECUL)	MCC compatible



CONNECTPV

Simplifying Solar PV

1500V Disconnect Combiners

ConnectPV Disconnect Combiner products are based on a core product architecture optimized for commercial and utility scale solar projects, simplifying design and specification. Options and accessories allow the designer to optimize the products for each project - reducing installation labor costs.

ConnectPV products incorporate "best-in-class" components combined with rugged mechanical designs to maximize reliability over the projected life of the project.

Compatible with grounded systems - negatively or positively grounded with fuses on the ungrounded string input conductors, or ungrounded systems with fuses on both string input conductors.

- ### Standard Product Features
- 250A, 320A, and 400A UL98B Certified Manual Disconnects
 - Lock-Out/Tag-Out on Disconnect Handle
 - 8-32 Fused Inputs, #14-#6 AWG Wire Range
 - Touch Safe Fuse Holders
 - 15A Fuse Typical, 30A Maximum - user specified
 - M10 or M12 Studs provided for single or double hole lugs
 - Accommodates 90°C/Al Mechanical or Compression Lugs
 - Internal Safety Cover over all live components
 - NEMA 3R, 4, and 4X Enclosures
 - Padlock Latch for Door
 - Unique Serial number per unit
 - Labeling to meet NEC Requirements
 - 5 Year Warranty



- ### Product Options
- Class 2 40kA Surge Protective Device
 - Mechanical Lugs Installed or Compression Lugs Included
 - Breather Vents for High Humidity Locations
 - H4 or MCA Bulkhead or Whip Connectors Installed
 - Upsized Enclosures for Larger Output Wires
 - Mounting Brackets Installed
 - Extended Warranty



CONNECTPV

Simplifying Solar PV

ConnectPV reduces electrical BOS project costs by simplifying:

- Configuration**
Design Engineers easily configure our products to meet the project requirements - Simplifying design and specification
- Installation**
Field installers quickly install our products because they provide ample wiring room - Reducing installation time and labor cost
- Regulation**
AHJ Inspectors quickly review and approve our products because we have designed for 100% compliance with the NEC and UL Standards - Reducing project inspection and approval time
- Operation**
O&M Personnel reduce field service time because our products use high quality components and are designed for a 20 year life expectancy - Maximizing system revenue generation

Typical Input Characteristics		Grounded Systems		Floating Systems	
Input Circuits	Standard Disconnect Ampacity	Input Wire Size	Output Type	NEMA 4 Steel (inches)	NEMA 4X Fiberglass (inches)
16	250	#14-#6	M10 Stud	24x24x8	24x24x8
20	250	#14-#6	M10 Stud	24x24x8	24x24x8
24	320	AWG	M12 Stud	30x30x8	30x30x8
28	400	Copper	M12 Stud	36x36x8	36x36x8
32	400	Copper	M12 Stud	36x36x8	36x36x8

* Fused Stainless Steel NEMA 4X
Standard Disconnects sized at 1.25x Sum(Isc) per UL1741.
Larger Disconnect available at 1.5x Sum(Isc) for OCPD coordination.
High Ampacity input versions available: e.g., 12x12, 400A with 30A fuses.
Specifications Subject to Change

Model Numbers are derived from the following template: CBXYVT-##-##-##-FF-AA-EE

VV	T	##	##	FF	AA	EE
Voltage	Topology	Disconnect Rating	String Count	Fuse Rating	Enclosure Type	
15 = 1500V	G-Grounded F-Floating	250A, 320A, or 400A	0-32 2 string increments	0-30 15A Typical	N4 = Carbon Steel 4X = Fiberglass*	

Additional Options and Accessories Available

ABOUT CONNECTPV INC.

Based in San Diego, CA, ConnectPV Inc. delivers expertise and experience. We bring over 10 years of Solar PV industry experience in electrical Balance of System products coupled with more than 25 years of high quality, ISO9001:2008 certified manufacturing expertise. We actively work with our customers to deliver innovative, high quality, and cost effective solutions.

Contact Toll Free: (844) 246-6140
Local: (658) 246-6140
www.connectpv.com
sales@connectpv.com
San Diego, CA
CBX15 Rev. 3.0

CAB1000/AC

Up to 1500 VDC
Utility-grade energy storage inverter
Scalable to 4 MW



- Return on Investment**
 - 98% max efficiency
 - Low ripple & total harmonic distortion
 - Modular 1 MW blocks
 - Moveable dynamic performance
- Easily Transportable**
 - Standard height - low transportation cost
 - Movable with pallet jack or standard forklift
 - No crane required
 - Separable building blocks
- Modular / flexible configuration**
 - 1 MW blocks up to 1500 VDC
 - Configurable up to 4 MW
 - Individual AC connections or combined threat
 - Able to mix inverters & DC-DC in a single lineup
- Advanced Technology**
 - Parallel IGBT functionality
 - Fully parameterizable grid support
 - Certified to standards: UL1741/IEC 62109-1/IEC 62109-2/IEEE 1547 / 4-quadrant high bandwidth control
- Simple O&M**
 - Easy maintainable
 - Modular design with low component count
 - Extended warranty available

The CAB1000 scalable platform was specifically developed to offer a straightforward and simple solution to developers of utility-grade energy storage systems. In 1 MW blocks, the CAB1000 platform offers a single modular system which is tailored to Utility systems of all sizes. The scalable power conversion system also boasts high-performance controls and system redundancy.

With world-class power density and an easy to install design, your energy storage system will be commissioned quickly and easily. The energy storage PCS has never been more flexible or straightforward.



MODEL	CAB1000/AC-630	4
LINEUP QTY	1	4
AC	AC port configuration: 3 wire (3PTW)	
AC voltage range:	630 VRMS ±10% / ±2%	
AC export capacity @ 25°C:	1250 kVA 1348 ARMS	5000 kVA 4584 ARMS
AC export capacity @ 45°C:	1025 kVA 1003 ARMS	4600 kVA 4124 ARMS
AC import capacity @ 25°C:	1004 kVA 920 ARMS	4016 kVA 3680 ARMS
AC import capacity @ 45°C:	838 kVA 810 ARMS	3344 kVA 3248 ARMS
Inverter type:	Minimum grid SCCR (2)	3-Level VSC
Minimum grid SCCR (2):	80 - 60 Hz (4/3 settable)	
Normal frequency range:	50 - 60 Hz (4/3 settable)	
Harmonic distortion:	UL1741 / IEEE 1547, <2% THD per IEEE 519	
Power factor / reactive power:	0 leading - 0 lagging (full 4-quadrant operation)	
Maximum bus power consumption:	900 W	3600 W
Efficiency: Max IEC Euro:	96.6% (est.) >98% (est.) >98% (est.)	
DC	DC voltage range (1):	892 - 1500 VDC
Typical lithium battery voltage range:	920 - 1350 VDC	
Maximum DC current:	1400 ADC	5612 ADC
Battery technology:	All battery types, fuel cell, other DC sources, etc.	
Number of DC inputs:	4	4
Environmental	Ambient temperature (operating):	-20°C to 50°C
Ambient temperature (storage):	-20°C to 60°C	
Protection degree:	NEMA 3R / IP54	
Relative humidity:	5% - 100% non-condensing	
Max vibration:	2.000 m/s ² (RMS)	
Airborne noise:	<75 dBA @ 5m	
Temperature de-rating:	automatic, see charts	
Cabinet	Maximum dimensions (H x W x D):	mm: (2275 x 1004 x 1200) in: (89.6 x 39.5 x 47.2)
Weight (est.):	1540 kg (3400 lb.)	(4) x 1043 kg (2300 lb.)
Mounting:	Pad mount	
Coating:	Hybrid liquid / air	
Coating fuel:	30% - 50% UVG or PUV	
Certifications (pending)	UL 1741 IEC 62109-1 IEC 62109-2 CA Rule 21 16-09-052 IEEE 1547-2005 IEEE 1547-2018	
Protections	AC protection: fuses (optional)	
DC protection: internal cabinet heating		
Humidity: overvoltage, overcurrent, overtemperature		
Safety features: integrated		
Ground fault detection: CAN, Modbus RS485, or Modbus TCP		
Control	Control interface: CAN, Modbus RS485, or Modbus TCP	
Command latency: 1 ms		
Response time (time to new setpoint): 0 ms		
Grid support functions: Yes Adjustable longer via parameters		
On-off grid transitions: Yes UPS mode available		
Block-start capable: Yes, requires external control power		
Grid feed control modes: Voltage mode PQ (Power) DG (current) Low pf (pf)		
Grid support functions: Yes Adjustable longer via parameters		
Islanded control modes: V/F droop control inertia OK to parallel with other sources		
Island over-voltage avoidance: active crush limiting for starting large loads		
Control power options: 208 - 240 VAC DC 24 VDC		

(1) Power output at nominal voltage
(2) Minimum SCCR operation requires over-voltage lock in "locking" reserve mode. Contact EPC Power for details.
(3) Maximum DC voltage at nominal AC line voltage



CAB1000/DC

DC coupled solar + storage



Bidirectional 1500 V DC-DC conversion

With a power rating of up to 3000 kW, EPC's DC-DC outdoor cabinet is designed to seamlessly integrate energy storage into 1000 V or 1500 V PV systems.

Our DC-DC converters are compatible with a wide range of DC sources. Whether you have 1000 V class lithium battery banks, DC generators, ultra-capacitors, other battery chemistries (lead-acid, flow, etc.) or even fuel cells, our DC-DC converters have your needs covered. By connecting a wide range of DC voltage levels, EPC's DC-DC solutions enable highly scalable power conversion in your application.

The CAB1000/DC is designed from the ground up with simplicity, reliability and scalability in mind.

Key benefits:

- 4-quadrant (bidirectional buck or boost)
- DC coupled solar
- Power flow in either direction regardless of voltages
- Wide DC range
- Optimized for energy storage

1500 V DC-DC
Any DC source
Wide DC voltage range

- NEMA 3R rated
- Peak efficiency >98%
- Connects directly between PV & storage
- Refit or new installations
- MPPT capable
- Bidirectional buck/boost



CAB1000/DC

Bidirectional DC-DC

Use Case 1: DC -> PV inverter

Use Case 2: PV inverter -> DC

MODEL	CAB1000/DC-1 1000-1500	CAB1000/DC-2 2000-1500	CAB1000/DC-3 3000-1500
LINEUP	1	2	3
DC	DC input capacity @ 80°C: 1000 kW 1800 ADC	2000 kW 2700 ADC	3000 kW 4050 ADC
Converter topology:	3-Level		
Maximum aux. power consumption:	750 W	1500 W	2250 W
Efficiency: Max IEC Euro:	98.5% (est.) >98% (est.) >98% (est.)		
PV DC voltage range:	500 - 1500 VDC		
Maximum PV input voltage:	1500 VDC		
Battery DC voltage range:	900 - 1500 VDC		
Supported battery voltage range:	720 - 1500 VDC		
Maximum DC current:	1000 ADC	2700 ADC	4050 ADC
DC voltage ripple:	<4%		
Battery technology:	All battery types, fuel cell, other DC sources, etc.		
Number of DC connections:	4 positive / 4 negative	8 positive / 8 negative	12 positive / 12 negative
Ambient temperature (operating):	-20°C to 50°C		
Ambient temperature (storage):	-20°C to 60°C		
Protection degree:	NEMA 3R / IP54		
Relative humidity:	5% - 100% non-condensing		
Max vibration:	2.000 m/s ² (RMS)		
Airborne noise:	<75 dBA @ 5m		
Temperature de-rating:	automatic, see charts		
Cabinet	Maximum dimensions (H x W x D):	mm: (1740 x 1004 x 1200) in: (68.5 x 39.5 x 47.2)	mm: (2275 x 1004 x 1200) in: (90.0 x 39.5 x 47.2)
Weight (est.):	907 kg (2000 lb.)	1814 kg (4000 lb.)	2721 kg (6000 lb.)
Mounting:	Pad mount		
Coating:	Hybrid liquid / air		
Coating fuel:	30% - 50% UVG or PUV		
Certifications (pending)	UL 1741 IEC 62109-1 IEC 62109-2 CA Rule 21 16-09-052 IEEE 1547-2005 IEEE 1547-2018		
Protections	DC protection: DC disconnect (battery), DC disconnect (PV), DC fuses (optional)		
Humidity: overvoltage, overcurrent, overtemperature			
Safety features: integrated			
Ground fault detection: CAN, Modbus RS485, or Modbus TCP			
Control	Control interface: CAN, Modbus RS485, or Modbus TCP		
Command latency: 1 ms			
Response time (time to new setpoint): 0 ms			
Grid support functions: Yes Adjustable longer via parameters			
On-off grid transitions: Yes UPS mode available			
Block-start capable: Yes, requires external control power			
Grid feed control modes: Voltage mode PQ (Power) DG (current) Low pf (pf)			
Grid support functions: Yes Adjustable longer via parameters			
Islanded control modes: V/F droop control inertia OK to parallel with other sources			
Island over-voltage avoidance: active crush limiting for starting large loads			
Control power options: 208 - 240 VAC DC 24 VDC			

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DRAWN BY: EVD / CMG / OGR
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DATE: 04/13/2023
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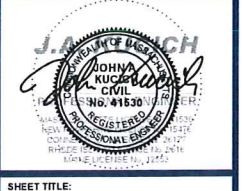
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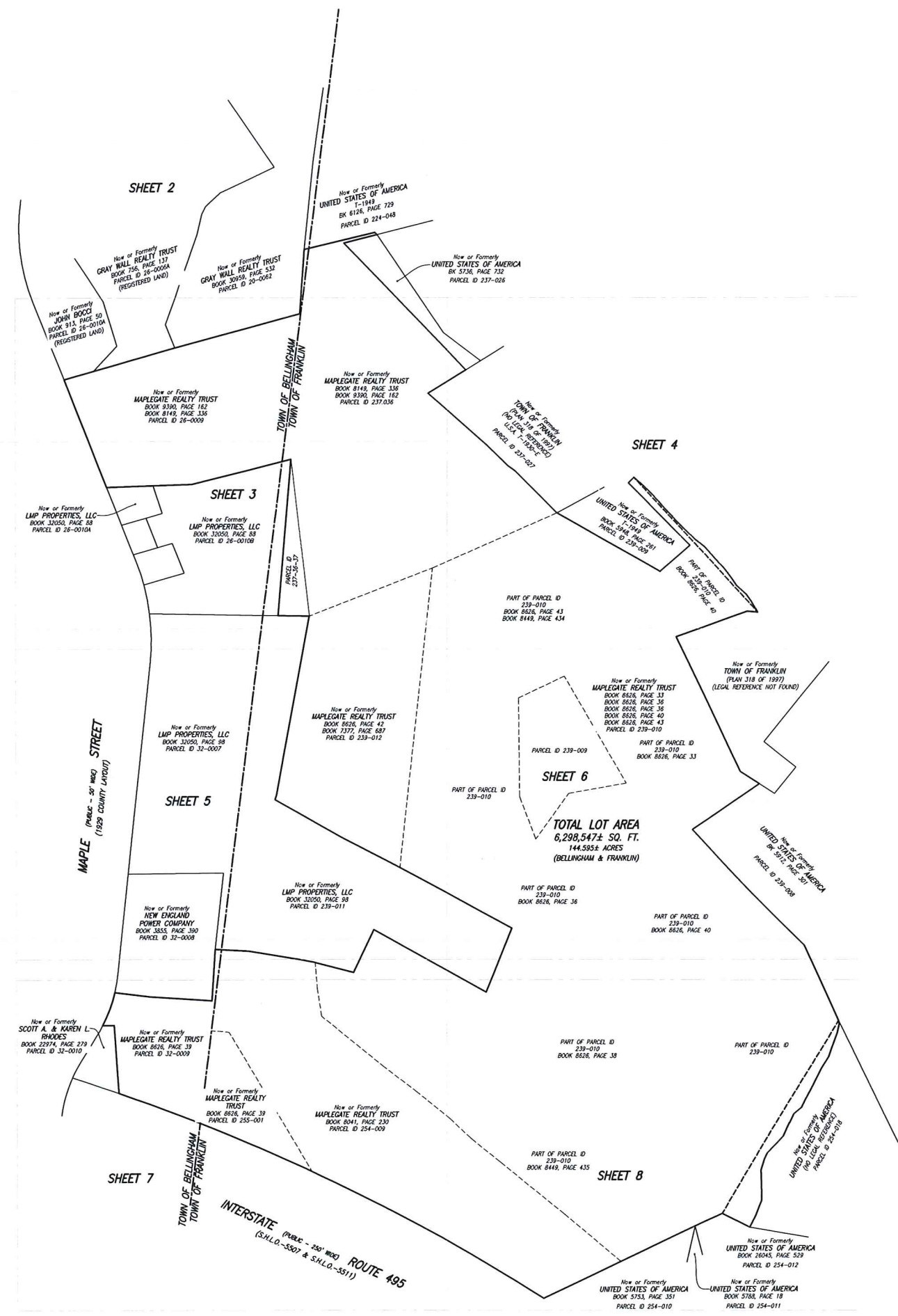


SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-906
REVISION 3 - 7/19/2023



MASSACHUSETTS STATE PLANE NAD 83



NOTES:

- 1) BENCH MARK INFORMATION
ELEVATIONS ESTABLISHED FROM GPS OBSERVATIONS
TEMPORARY BENCHMARKS SET
TEM-EC1: TOP OF MAG NAIL SET IN ASPHALT CURB PATH AS SHOWN HEREON (SEE SHEET 4)
ELEVATION=216.32
TEM-EC11: TOP OF MAG NAIL SET IN ASPHALT CURB PATH AS SHOWN HEREON (SEE SHEET 4)
ELEVATION=241.05
- 2) ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83)
- 3) CONTOUR INTERVAL EQUALS ONE (1) FOOT
- 4) BY DRAWING PLOTTING ONLY, THE PARCELS SHOWN HEREON LIE WITHIN A ZONE "X" (UNSHADED) AN AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD AND A ZONE "X" AN AREA WITHIN THE 1% CHANCE ANNUAL FLOOD WITH BASE FLOOD ELEVATIONS DETERMINED AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR NORFOLK COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) MAP NUMBER 250210303C, HAVING AN EFFECTIVE DATE OF JULY 17, 2012.
- 5) THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN LAND SURVEYORS ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN LAND SURVEYORS' SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN LAND SURVEYORS.
- 6) UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE ABOVE-MENTIONED RECORD PLANS AND ARE APPROXIMATE. ONLY WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS. SINCE SUBSURFACE UTILITIES CANNOT BE HOLESY VERIFIED BEFORE PLANNING, FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL, TOLL FREE, THE ONE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
- 7) THE WETLAND AREAS SHOWN HEREON WERE DELINEATED BY LEC ENVIRONMENTAL DURING FEBRUARY AND MARCH OF 2022.

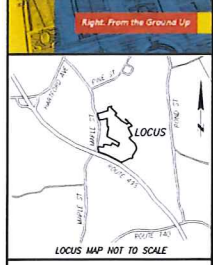
LEGEND

⊙	UTILITY POLE
⊙	LIGHT POLE
⊙	MANHOLE
⊙	HYDRANT
⊙	SIK
⊙	BORING FOUND WITH DRILL HOLE
⊙	IRON ROD
⊙	WETLAND FLAG
∠	DELTA ANGLE
⊙	FLAG POLE
⊙	POST
BT	BITUMINOUS
B.V.M.	BORDERING VEGETATED WETLAND
IL.S.F.	INTERMITTENT LAND SUBJECT TO FLOODING
CONC	CONCRETE
DH	DRILL HOLE
EP/EP	ESCUTCHEON PIN/LEAD PLUG
SB/SH	STONE BOUND DRILL HOLE
COBH	COCK BOUND DRILL HOLE
IP	IRON PIPE
IR	IRON ROD
FD	FOUND
S.H.L.O.	STATE HIGHWAY LAYOUT
±	AVERT ELEVATION
L=	ARC LENGTH
NO	NO HOLE PIPES
R=	RADIUS
SQ. FT.	SQUARE FEET
CHB	CHORD BEARING
CHD	CHORD DISTANCE
—	DRAIN
—(12")C—	PIPE SIZE AND MATERIAL
—C—	CAST IRON
—CPP—	CORRUGATED PLASTIC PIPE
—CMP—	CORRUGATED METAL PIPE
—PVC—	RELIEFVALVE CHARGING
—RCP—	REINFORCED CONCRETE PIPE
—VCP—	VITRIFIED CLAY PIPE
—OW—	OVERHEAD WIRES
—	GUARD RAIL
—	METAL FENCE
—	FENCE
—	STONE WALL

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27 MECHANIC STREET
WORCESTER, MA 01608

(617)357-9740
www.feldmangeo.com



I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

7-13-23 DATE
TIMOTHY R. AGUIRIS, PLS. (MA# 52782)
TAGUIRIS@FELDMANGEO.COM



ADDRESS:

MAPLEGATE COUNTRY CLUB
BELLINGHAM, MASS.
FRANKLIN, MASS.

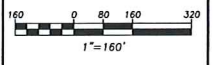
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REVISIONS:
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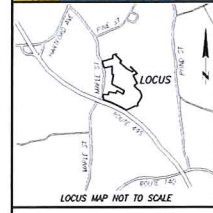
EXISTING CONDITIONS
PLAN

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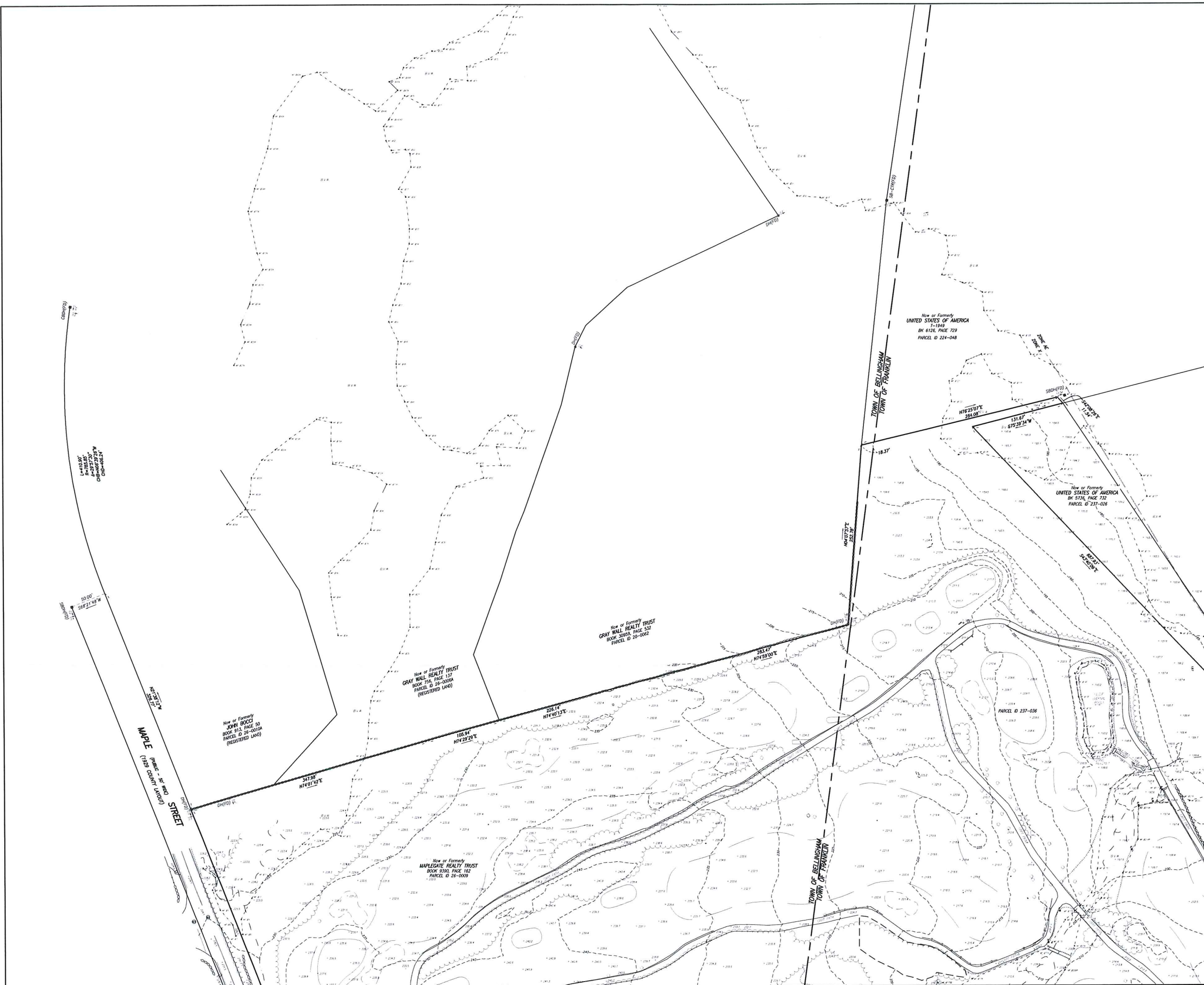
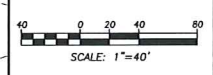
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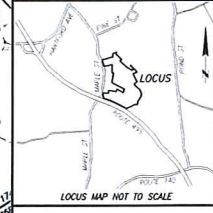
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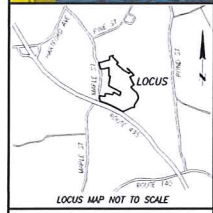
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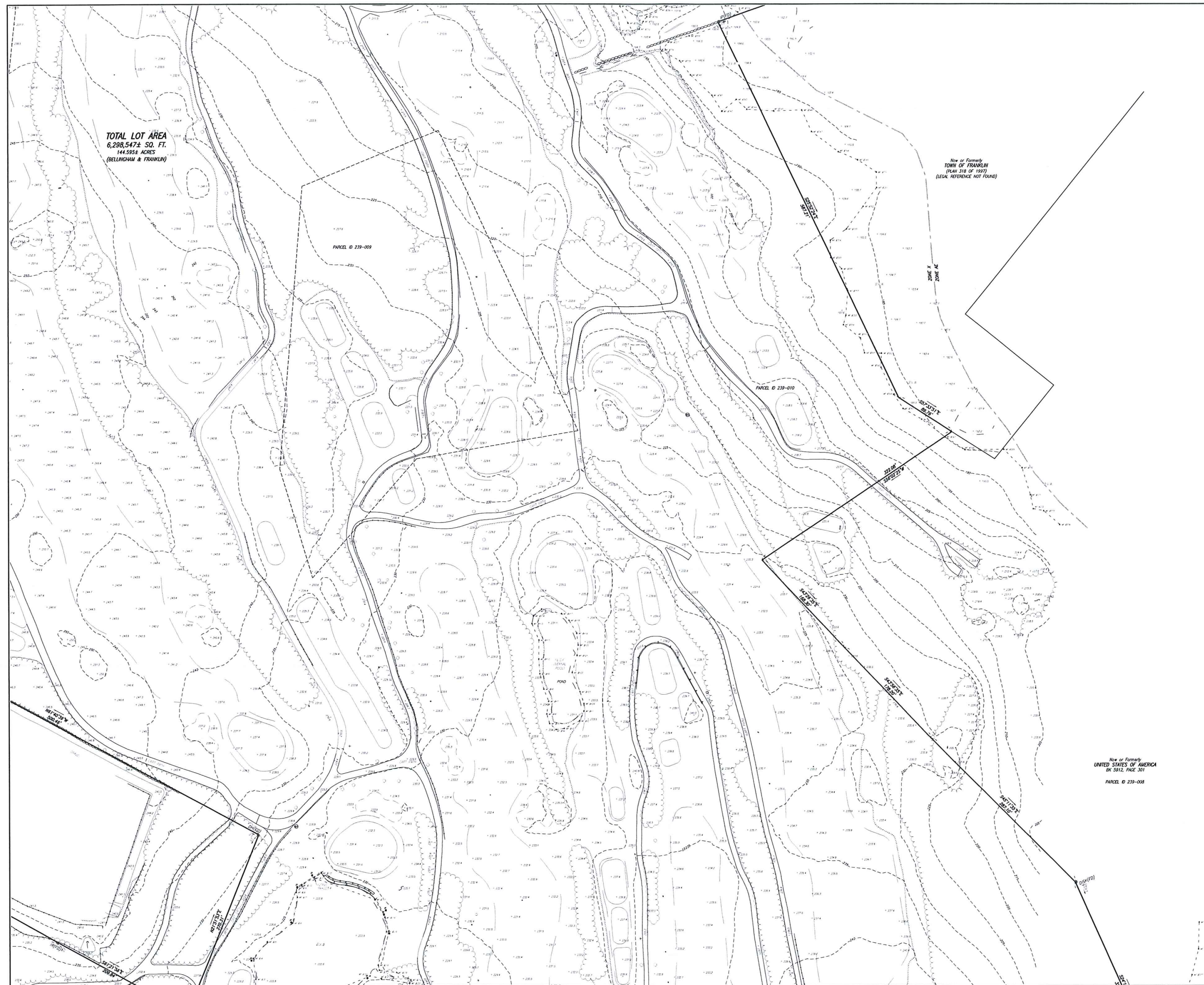
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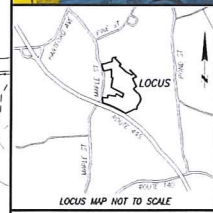
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LOCUS MAP NOT TO SCALE

I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

PROF. R. ADURIS, PLS DATE 7-13-23
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PROJ MGR: TRA	APPROVED: TRA
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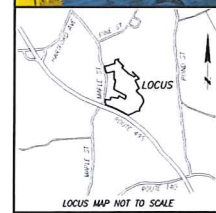
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DRAWING NAME:
DRAFT 5/09/2022

EXISTING CONDITIONS PLAN

DATE: APRIL 11, 2022

