

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR, LLC

PROPOSED
SOLAR FARM - SOUTH

LOCATION OF SITE:
**160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN
 NORFOLK COUNTY, MASSACHUSETTS**
**LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION
 OF D 239-010, & 32-0009 (BELLINGHAM)**

REFERENCES

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

ANR 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	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD



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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD I.D.: W201257.02-SFPD-2A

PROJECT:

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FOR
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SOLAR FARM - SOUTH

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 160 MAPLE STREET,
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 NORFOLK COUNTY, MASSACHUSETTS



352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

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SHEET TITLE:

COVER SHEET

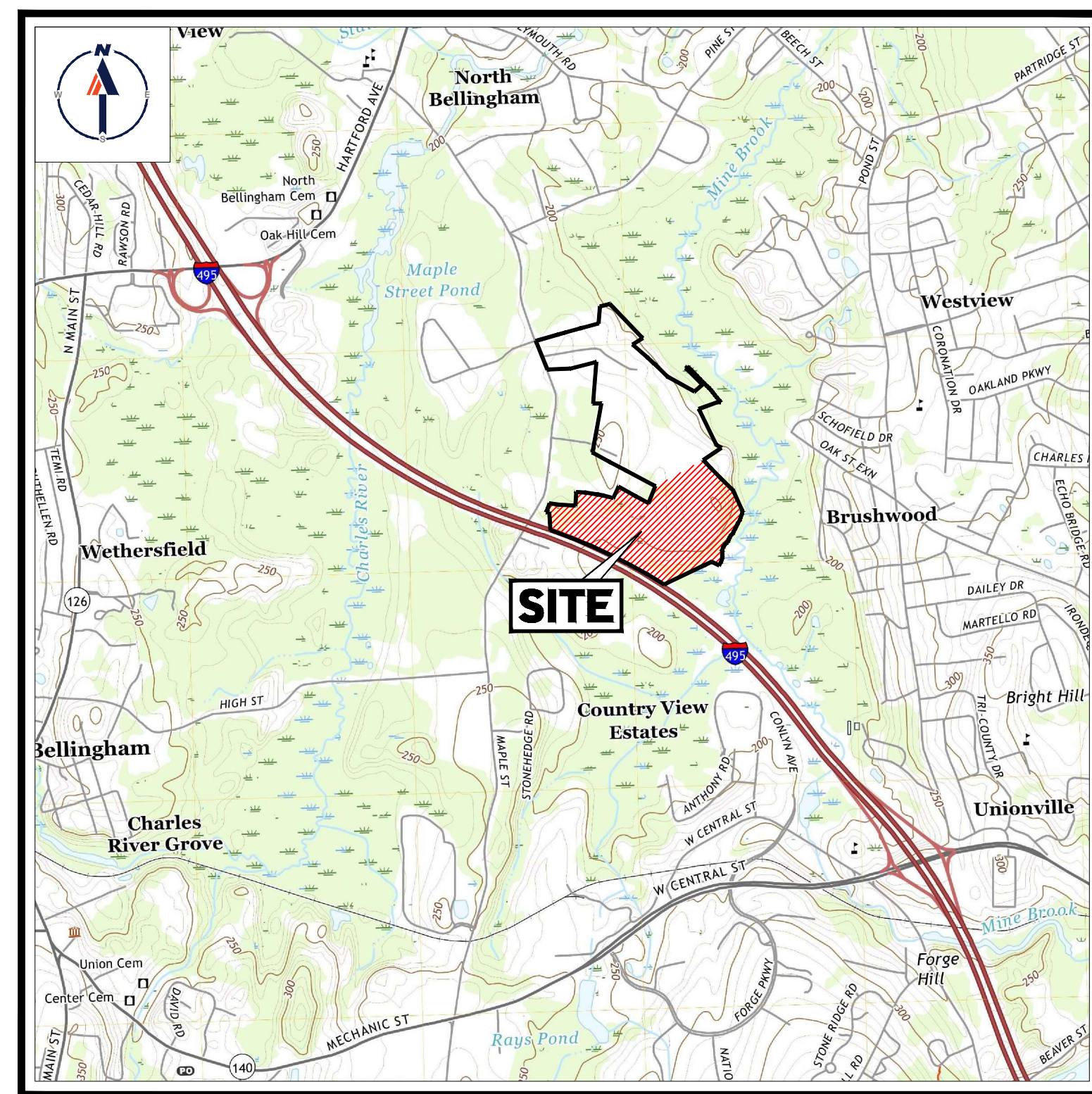
SHEET NUMBER:

C-101

REVISION 2 - 02/16/2024

DRAWING SHEET INDEX

SHEET TITLE	SHEET NUMBER
COVER SHEET	C-101
GENERAL NOTES SHEET	C-102
OVERALL DEMOLITION PLAN	C-201
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OVERALL SITE LAYOUT PLAN	C-301
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OVERALL GRADING PLAN	C-401
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EROSION & SEDIMENT CONTROL NOTES & DETAILS	C-608 - C-609
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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



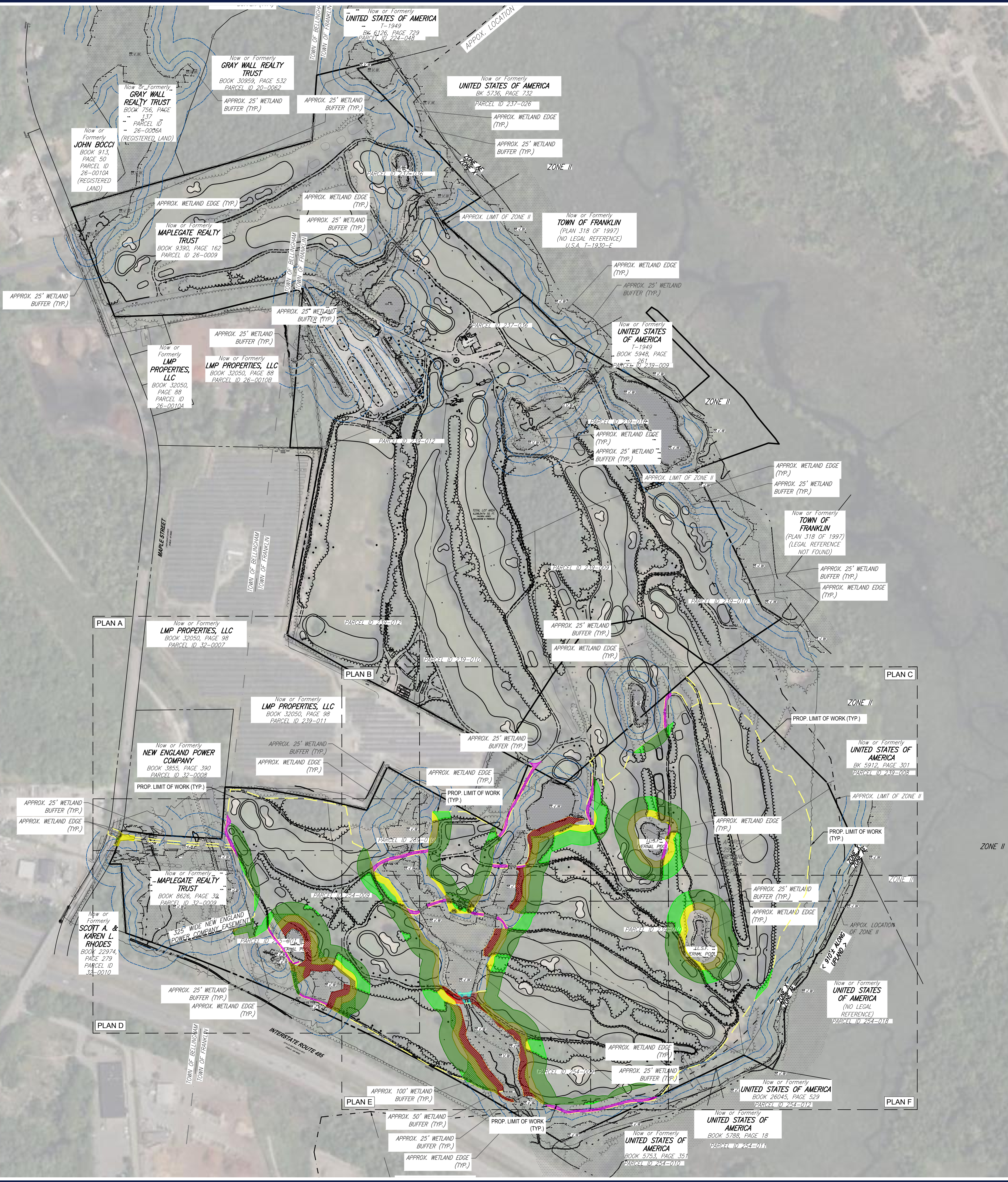
SITE MAP

SCALE: 1" = 600'
 SOURCE: GOOGLE AERIAL

PREPARED BY



I:\BOHLER\NET\SHARES\BMA\PROJECTS\2023\257\257-254\DRAWINGS\PLAN SET\CIVIL SITE PLAN\W201257.02-SFPD-2A-LAYOUT1.C-101-COVER



TOTAL BUFFER DISTURBANCE CHART

AREA	HATCH	DESCRIPTION
593 ± sf	[Red Hatch]	25' Proposed Buffer Disturbance
8,601 ± sf	[Dark Red Hatch]	25' Existing Buffer Disturbance
20,594 ± sf	[Yellow Hatch]	50' Proposed Buffer Disturbance
51,416 ± sf	[Olive Hatch]	50' Existing Buffer Disturbance
47,641 ± sf	[Green Hatch]	100' Proposed Buffer Disturbance
248,513 ± sf	[Dark Green Hatch]	100' Existing Buffer Disturbance
854 ± sf	[Cyan Hatch]	Proposed Wetland Disturbance
16,774 ± sf	[Pink Hatch]	Existing Cart Path to be Removed and Restored
48,098 ± sf	[Cross-hatch]	25' Existing Buffer Disturbance (To Be Improved)
34,268 ± sf	[Diagonal Hatch]	50' Existing Buffer Disturbance (To Be Improved)
11,290 ± sf	[Grid Hatch]	100' Existing Buffer Disturbance (To Be Improved)
306,098 ± sf	N/A	Total Existing Disturbance
68,707 ± sf	N/A	Total Proposed 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.

ALL SHRUBS AND TREES WITHIN LOW TO BE REMOVED. ALL LAWN, FAIRWAYS, GREENS, AND CLEARED AREAS ARE TO BE SEEDED WITH A MEADOW MIX AND MOWED TWICE PER YEAR. (TYP.)

REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY

TBR. = TO BE REMOVED

1" = 200'

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REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

BOHLER
 352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
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SHEET TITLE:

OVERALL DEMOLITION PLAN

SHEET NUMBER:
C-201

REVISION 2 - 02/16/2024

BOHLER ENGINEERING\PROJECTS\2023\257\257-02-DEMOS\2A-LAYOUT-C-201-OVERALL.DWG
 BOHLER ENGINEERING\PROJECTS\2023\257\257-02-DEMOS\2A-LAYOUT-C-201-OVERALL.DWG
 BOHLER ENGINEERING\PROJECTS\2023\257\257-02-DEMOS\2A-LAYOUT-C-201-OVERALL.DWG



TOTAL BUFFER DISTURBANCE CHART

AREA	HATCH	DESCRIPTION
993 ± sf	[Red Hatch]	25' Proposed Buffer Disturbance
6,601 ± sf	[Dark Red Hatch]	25' Existing Buffer Disturbance
20,594 ± sf	[Yellow Hatch]	50' Proposed Buffer Disturbance
51,416 ± sf	[Green Hatch]	50' Existing Buffer Disturbance
47,641 ± sf	[Light Green Hatch]	100' Proposed Buffer Disturbance
248,513 ± sf	[Dark Green Hatch]	100' Existing Buffer Disturbance
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LMP PROPERTIES, LLC
BOOK 32050, PAGE 99
PARCEL ID 32-0007

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 239-011

Now or Formerly
NEW ENGLAND POWER COMPANY
BOOK 3855, PAGE 390
PARCEL ID 32-0008

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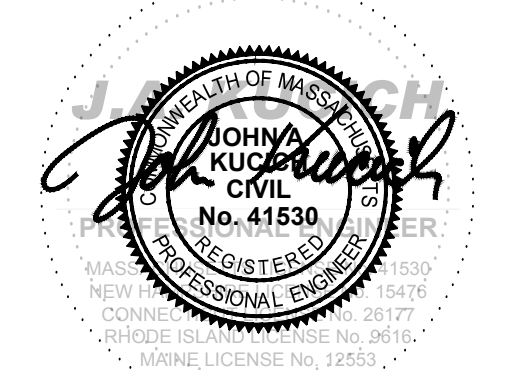
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CAD ID: W201257.02-DEMO-2A

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SHEET TITLE:
DEMOLITION PLAN A

SHEET NUMBER:
C-202

REVISION 2 - 02/16/2024

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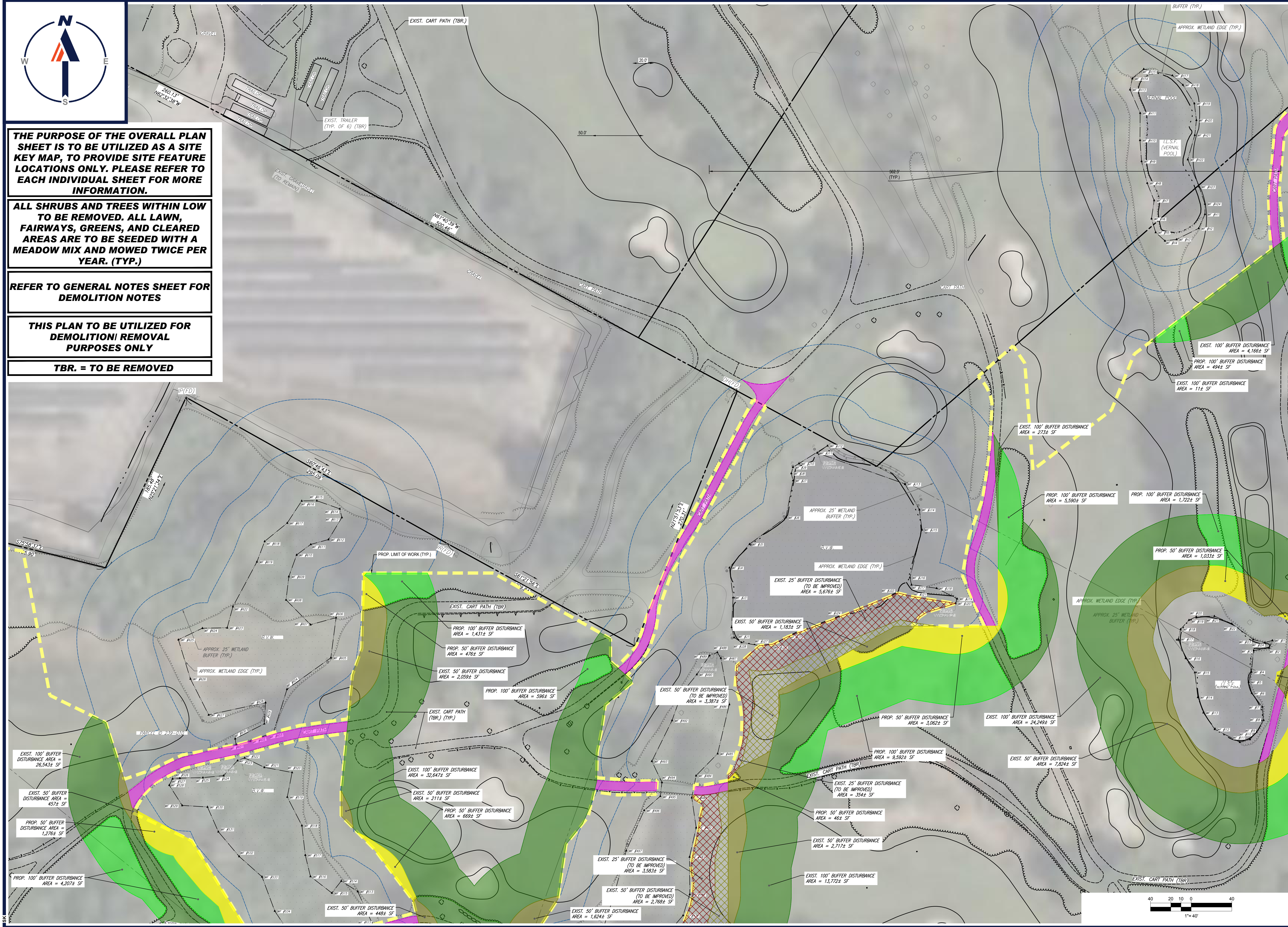
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PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

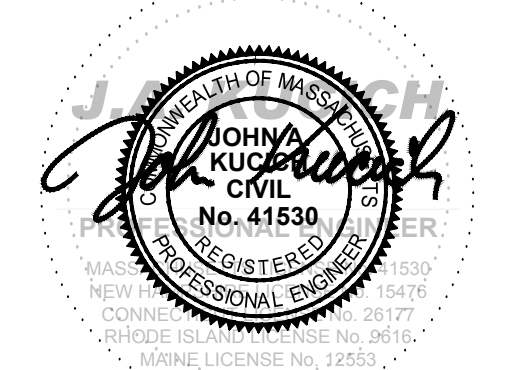
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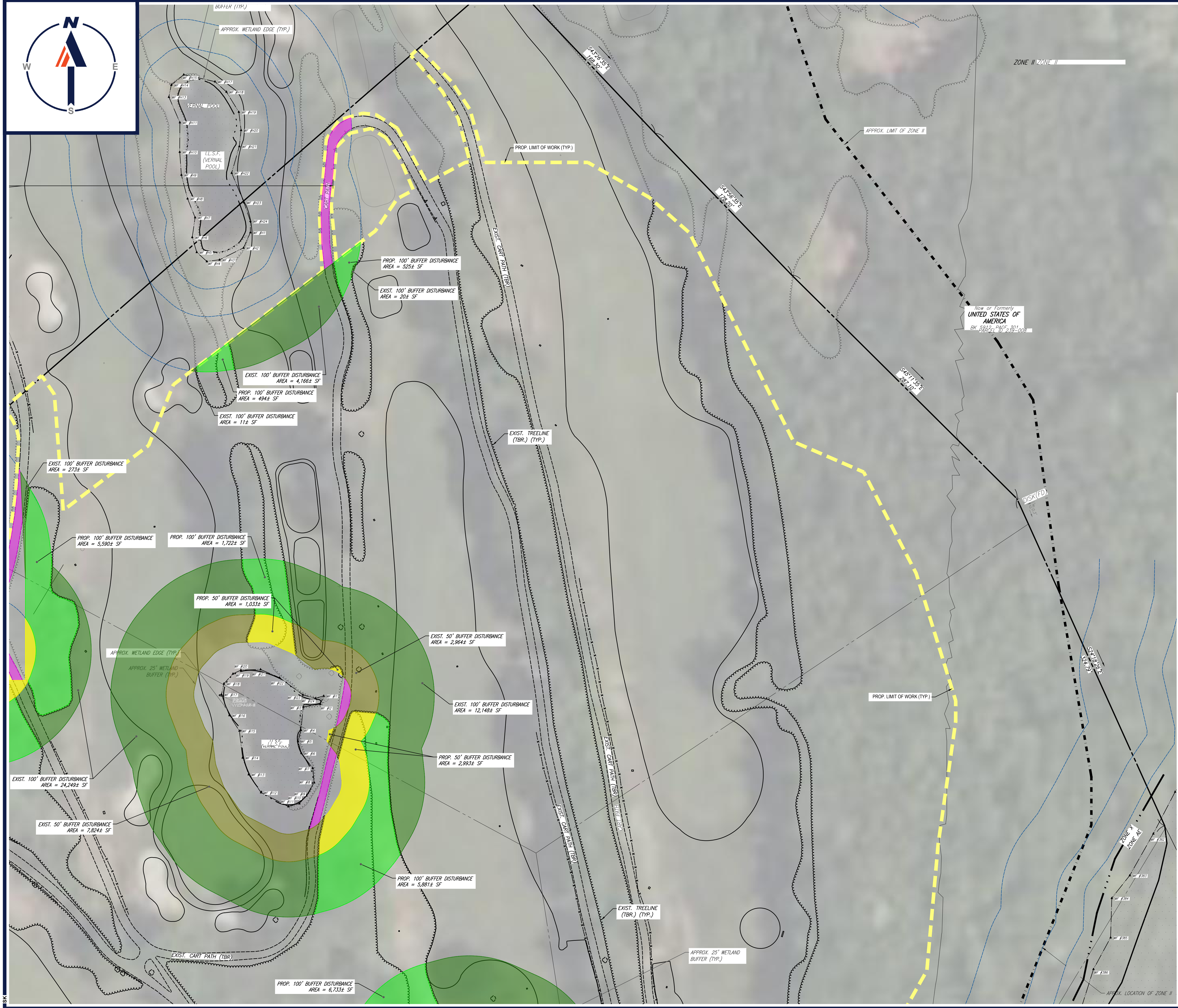
SHEET TITLE:

DEMOLITION PLAN B

SHEET NUMBER:
C-203

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARED\BMAP\PROJECTS\W201257\2023\CADD\DRAWINGS\PLAN\BETS\CIVIL\SITE PLAN\W201257.02-DEMO-2A-LAYOUT.C-203-DEMO.B



BOHLER ENGINEERING, INC. PROJECT: W201257.02-DEM02A...LAAYOUT: C-204-DEMO C



REVISIONS				
REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD



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 CAD ID: W201257.02-DEM0-2A

PROPOSED SITE PLAN DOCUMENTS

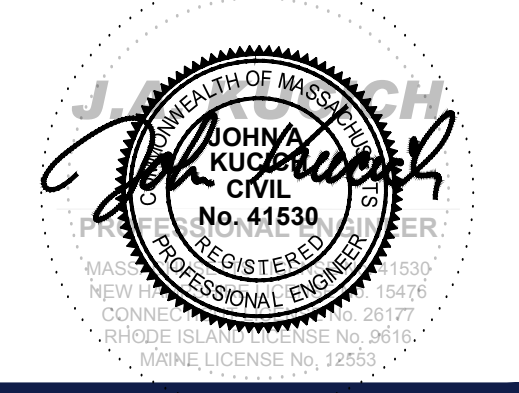
FOR
MAPLE STREET SOLAR LLC

PROPOSED
SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS



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SHEET TITLE:

DEMOLITION PLAN C

SHEET NUMBER:
C-204

REVISION 2 - 02/16/2024

TOTAL BUFFER DISTURBANCE CHART		
AREA	HATCH	DESCRIPTION
593 ± sf	[Red Hatch]	25' Proposed Buffer Disturbance
8,601 ± sf	[Dark Red Hatch]	25' Existing Buffer Disturbance
20,594 ± sf	[Yellow Hatch]	50' Proposed Buffer Disturbance
51,416 ± sf	[Olive Hatch]	50' Existing Buffer Disturbance
47,641 ± sf	[Light Green Hatch]	100' Proposed Buffer Disturbance
248,513 ± sf	[Dark Green Hatch]	100' Existing Buffer Disturbance
854 ± sf	[Cyan Hatch]	Proposed Wetland Disturbance
16,774 ± sf	[Pink Hatch]	Existing Cart Path to be Removed and Restored
48,098 ± sf	[Cross-hatch]	25' Existing Buffer Disturbance (To Be Improved)
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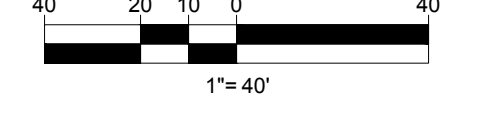
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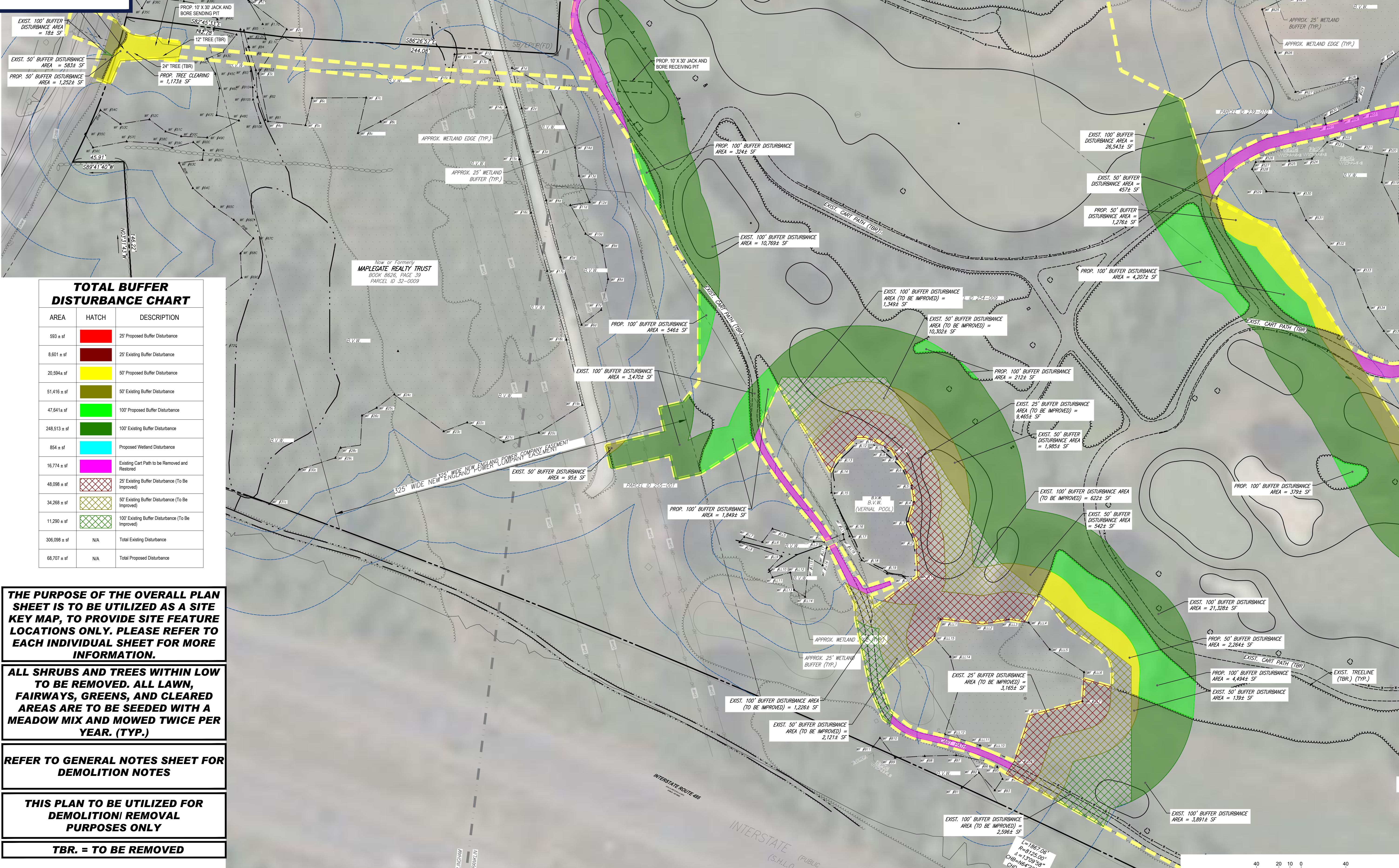
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REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

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TBR. = TO BE REMOVED





EXIST. 100' BUFFER DISTURBANCE AREA = 184 SF
 EXIST. 50' BUFFER DISTURBANCE AREA = 583± SF
 PROP. 50' BUFFER DISTURBANCE AREA = 1,252± SF

PROP. 10' X 30' JACK AND BORE SENDING PIT
 12' TREE (TBR)
 24' TREE (TBR)
 PROP. TREE CLEARING = 1,173± SF

TOTAL BUFFER DISTURBANCE CHART

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1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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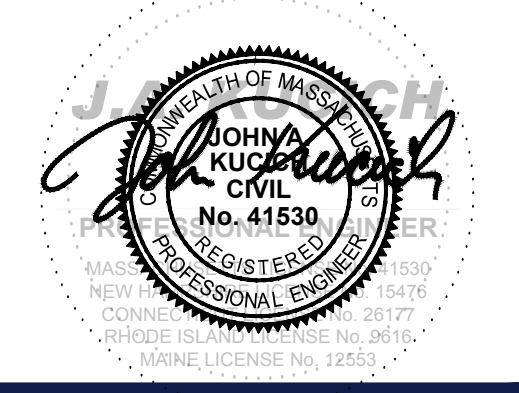
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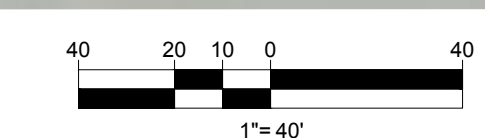
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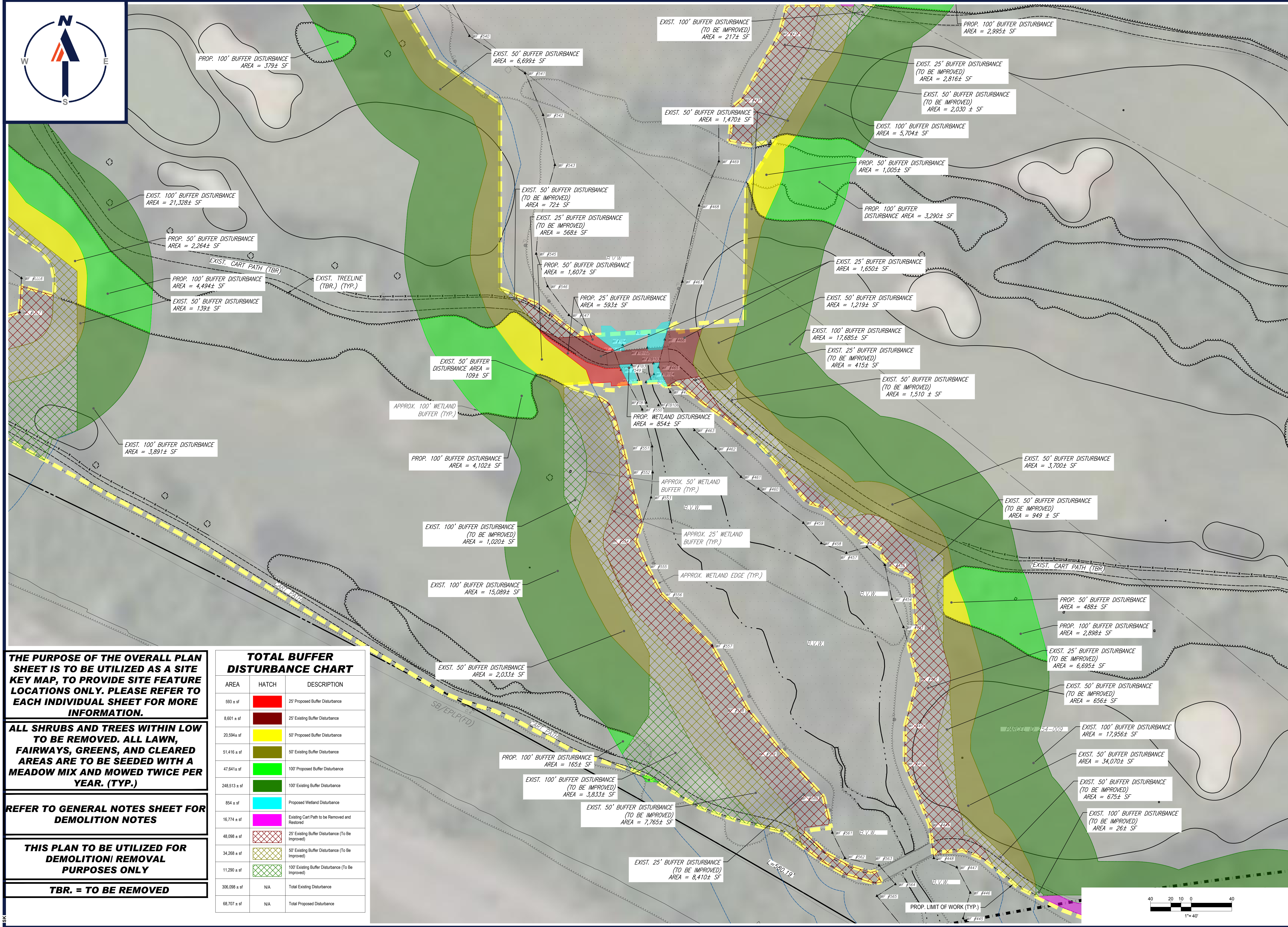
BOHLER
 352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
 www.BohlerEngineering.com



SHEET TITLE:
DEMOLITION PLAN D
 SHEET NUMBER:
C-205
 REVISION 2 - 02/16/2024



BOHLER ENGINEERING\BMA\PROJECTS\2023\257\257-010\257-010-DEMOS\2A\LA\OUT\ C-205-DEMO.DWG



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 CHECKED BY: GD
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 CAD ID: W201257.02-DEMO-2A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

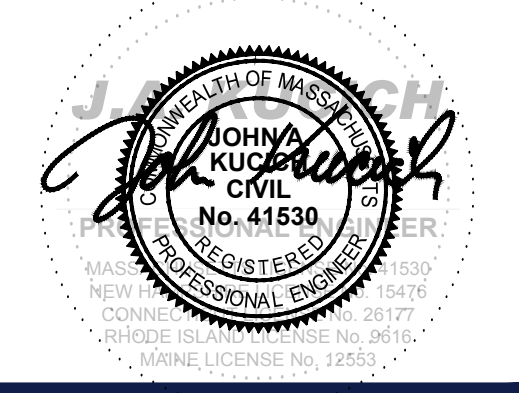
PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
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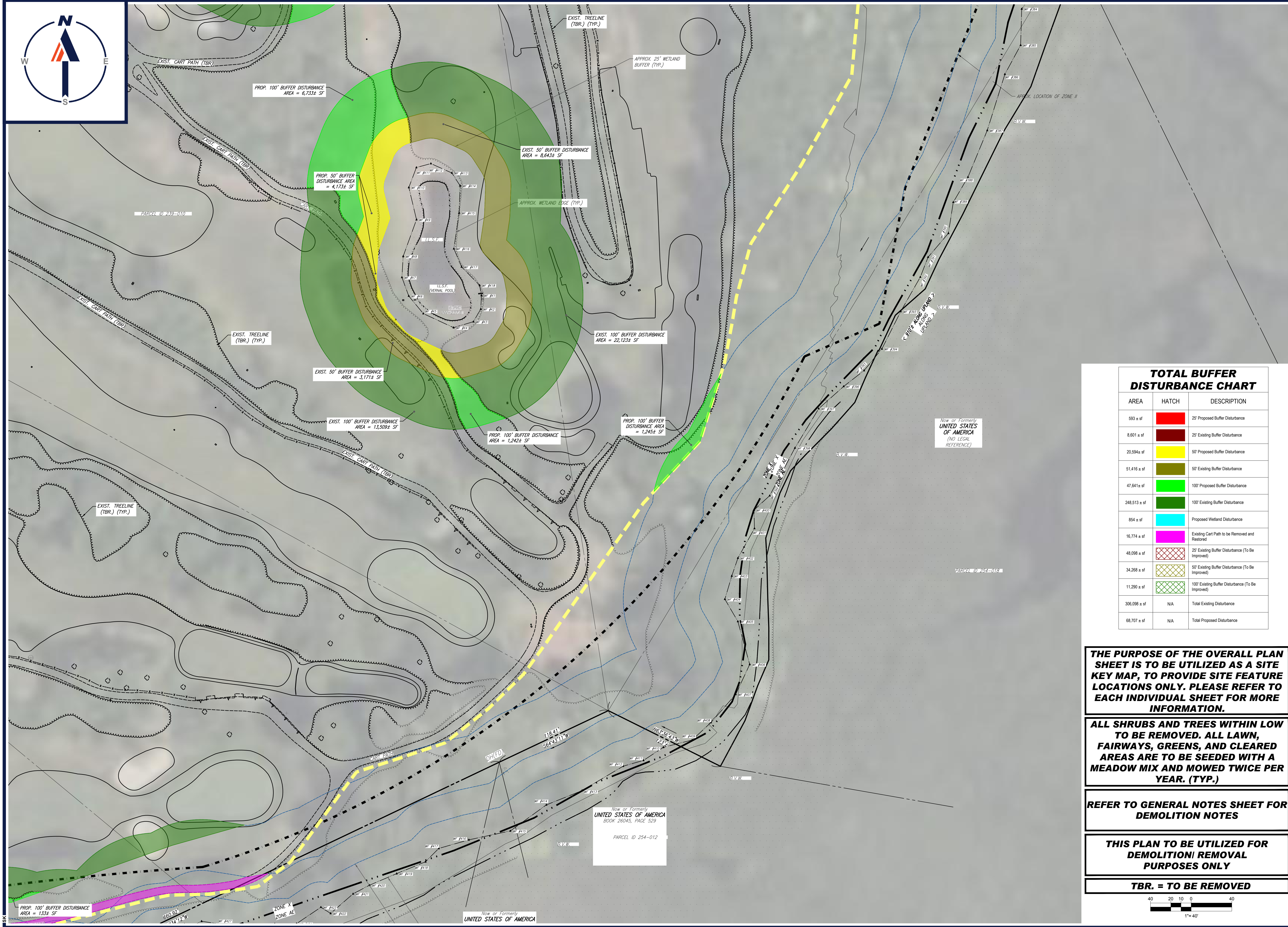
SHEET TITLE:

DEMOLITION PLAN E

SHEET NUMBER:
C-206

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\BMA\PROJECTS\2023\22\22\22\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\W201257.02-DEMO-2A-LAYOUT-C-206-DEMO.E



REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD



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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-DEMO-2A

PROPOSED SITE PLAN DOCUMENTS
 FOR
MAPLE STREET SOLAR LLC
 PROPOSED SOLAR FARM - SOUTH
 LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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SHEET TITLE:
DEMOLITION PLAN E
 SHEET NUMBER:
C-207
 REVISION 2 - 02/16/2024

TOTAL BUFFER DISTURBANCE CHART

AREA	HATCH	DESCRIPTION
593 ± sf	[Red Hatch]	25' Proposed Buffer Disturbance
8,601 ± sf	[Dark Red Hatch]	25' Existing Buffer Disturbance
20,594 ± sf	[Yellow Hatch]	50' Proposed Buffer Disturbance
51,416 ± sf	[Olive Hatch]	50' Existing Buffer Disturbance
47,641 ± sf	[Light Green Hatch]	100' Proposed Buffer Disturbance
248,513 ± sf	[Dark Green Hatch]	100' Existing Buffer Disturbance
854 ± sf	[Cyan Hatch]	Proposed Wetland Disturbance
16,774 ± sf	[Pink Hatch]	Existing Cart Path to be Removed and Restored
48,098 ± sf	[Cross-hatch]	25' Existing Buffer Disturbance (To Be Improved)
34,268 ± sf	[Diagonal-hatch]	50' Existing Buffer Disturbance (To Be Improved)
11,290 ± sf	[Grid-hatch]	100' Existing Buffer Disturbance (To Be Improved)
306,098 ± sf	N/A	Total Existing Disturbance
68,707 ± sf	N/A	Total Proposed 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.

ALL SHRUBS AND TREES WITHIN LOW TO BE REMOVED. ALL LAWN, FAIRWAYS, GREENS, AND CLEARED AREAS ARE TO BE SEEDED WITH A MEADOW MIX AND MOWED TWICE PER YEAR. (TYP.)

REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY

TBR. = TO BE REMOVED

 1" = 40'

I:\BOHLER\NET\SHARES\BMA\PROJECTS\2023\257\257-DEMO\DRAWINGS\PLAN BETS\CIVIL SITE PLAN\BWH01257-AD-DEMO-2A-LAYOUT.C-207-DEMO.F



BELLINGHAM ZONING ANALYSIS TABLE			
ZONING DISTRICT	SUBURBAN		
OVERLAY DISTRICT	NONE		
REQUIRED PERMIT	BELLINGHAM PLANNING BOARD DEVELOPMENT PLAN APPROVAL		
ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED PARCEL 32-0009
MIN. LOT AREA	40,000 SF	±3.77 ACRES	± 3.77 ACRES
MIN. LOT FRONTAGE	150.0'	138.8'	138.8'
MIN. FRONT SETBACK	30'	N/A	N/A
MIN. SIDE SETBACK	15'	N/A	N/A
MIN. REAR SETBACK	20'	N/A	N/A
MAX. BUILDING HEIGHT	35'	N/A	N/A
MAX. IMPER. COVERAGE	80 %	1.11% ¹	1.16 % ²

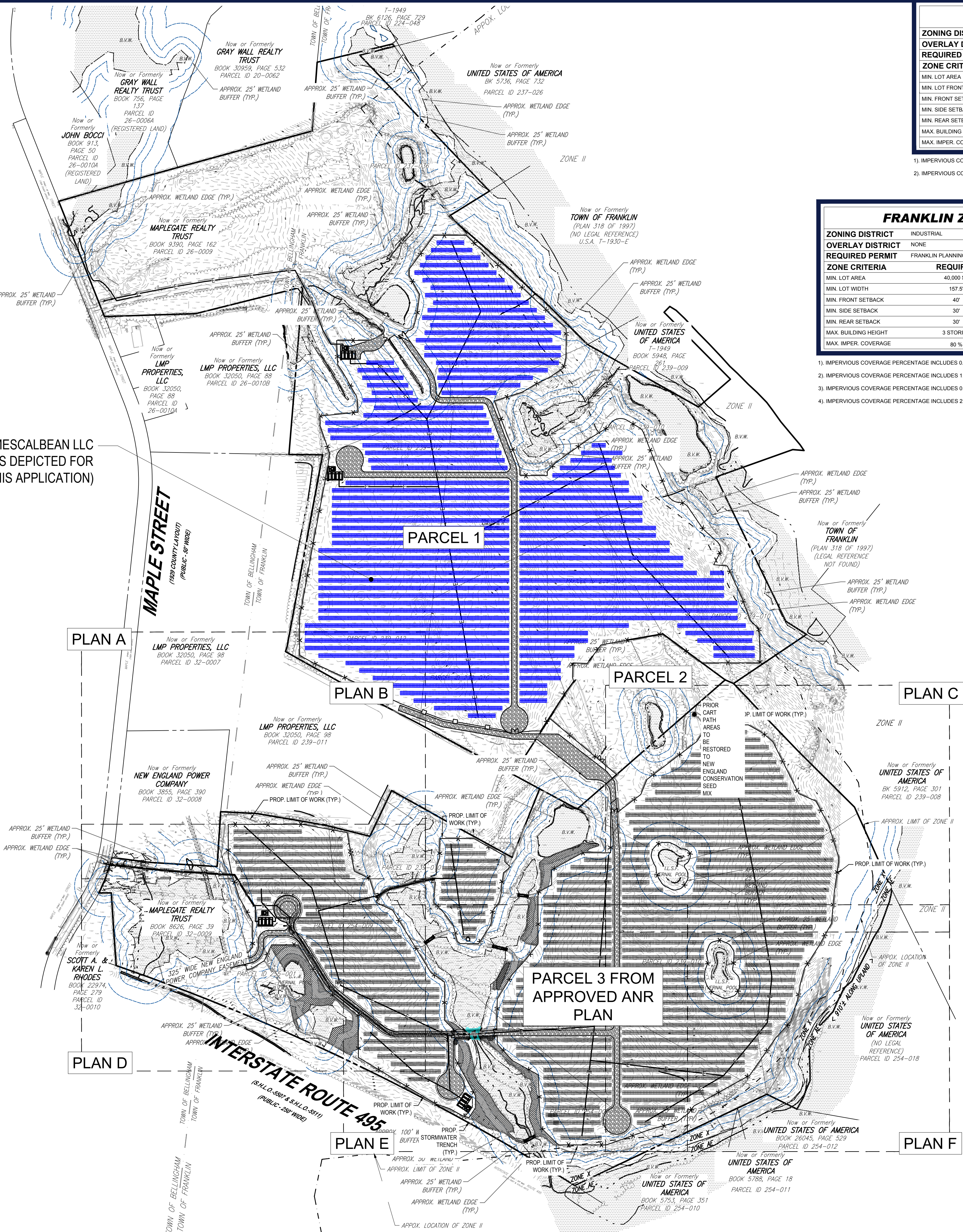
1) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 0.042 ACRES OF GRAVEL.
 2) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 0.044 ACRES OF GRAVEL.

FRANKLIN ZONING ANALYSIS TABLE					
ZONING DISTRICT	INDUSTRIAL				
OVERLAY DISTRICT	NONE				
REQUIRED PERMIT	FRANKLIN PLANNING BOARD SITE PLAN APPROVAL				
ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED PARCEL 1	PROPOSED PARCEL 2	PROPOSED PARCEL 3
MIN. LOT AREA	40,000 SF	±129.97 ACRES	± 62.96 ACRES	± 5.61 ACRES	± 61.40 ACRES
MIN. LOT WIDTH	157.5'	390.8'	N/A	N/A	227.0'
MIN. FRONT SETBACK	40'	N/A	N/A	N/A	N/A
MIN. SIDE SETBACK	30'	N/A	N/A	N/A	33.0'
MIN. REAR SETBACK	30'	N/A	N/A	N/A	44.6'
MAX. BUILDING HEIGHT	3 STORIES	< 3 STORIES	N/A	N/A	< 3 STORIES
MAX. IMPER. COVERAGE	80 %	<2.5% ¹	2.9 % ²	7.1 % ³	2.6 % ⁴

1) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 0.206 ACRES OF GRAVEL.
 2) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 1.20 ACRES OF GRAVEL.
 3) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 0.4 ACRES OF GRAVEL.
 4) IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 2.516 ACRES OF GRAVEL.

NORTH SOLAR PROJECT BY NEXTGRID MESCALBEAN LLC
 (PROPOSED SOLAR IMPROVEMENTS DEPICTED FOR
 REFERENCE ONLY - NOT PART OF THIS APPLICATION)

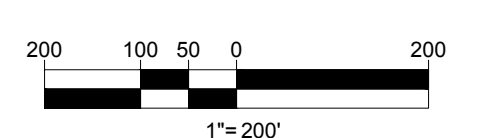
14,998.1 - KW DC
 4,999 - KW AC NORMAL
 4,999 - KW AC MAXIMUM
 PHOTOVOLTAIC POWER SYSTEM
 W/ 5,000 KW / 31,000 KWH DC-COUPLED STORAGE



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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.

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



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 PROGRAM MANAGEMENT
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 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS				
REV	DATE	COMMENT	REVIS PER UTILITY	DRAWN BY
1	10/04/2023	POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-SFPD-2A

PROJECT:
PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC
 PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

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 Phone: (508) 480-9900
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SHEET TITLE:
OVERALL SITE LAYOUT PLAN

SHEET NUMBER:
C-301

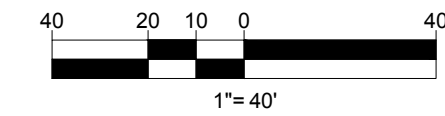
REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\2023\02\23\23-02\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\W201257.02-SFPD-2A-LAYOUT.C-301-OVERALL SITE



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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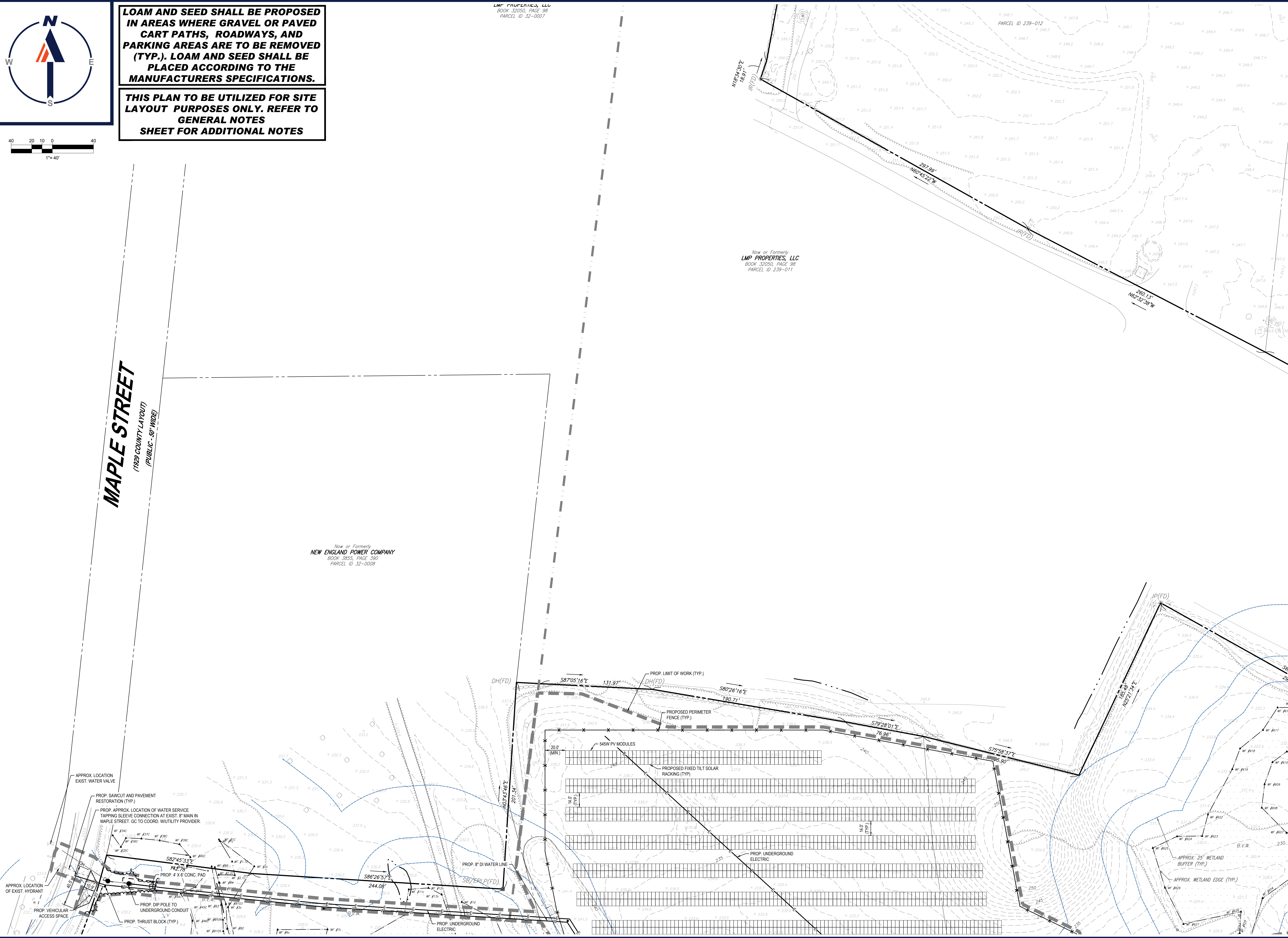


LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 32-0007

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 239-011

Now or Formerly
NEW ENGLAND POWER COMPANY
BOOK 3855, PAGE 390
PARCEL ID 32-0008

MAPLE STREET
(1989 COUNTY LAYOUT)
(PUBLIC - 60' WIDE)



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SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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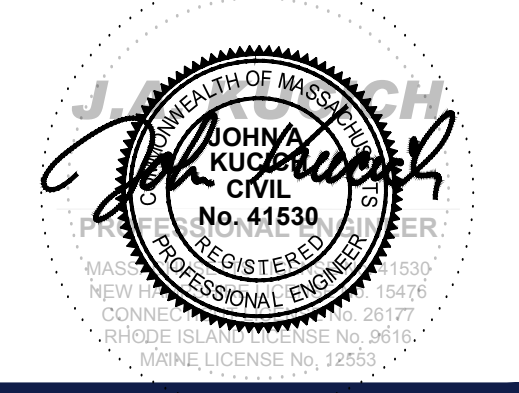
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PROJECT No.: W201257
DRAWN BY: CMC / OCR
CHECKED BY: GD
DATE: 07/20/2023
CAD ID: W201257.02-SPPD-2A

PROJECT:
PROPOSED SITE PLAN DOCUMENTS
FOR
MAPLE STREET SOLAR LLC
PROPOSED SOLAR FARM - SOUTH
LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

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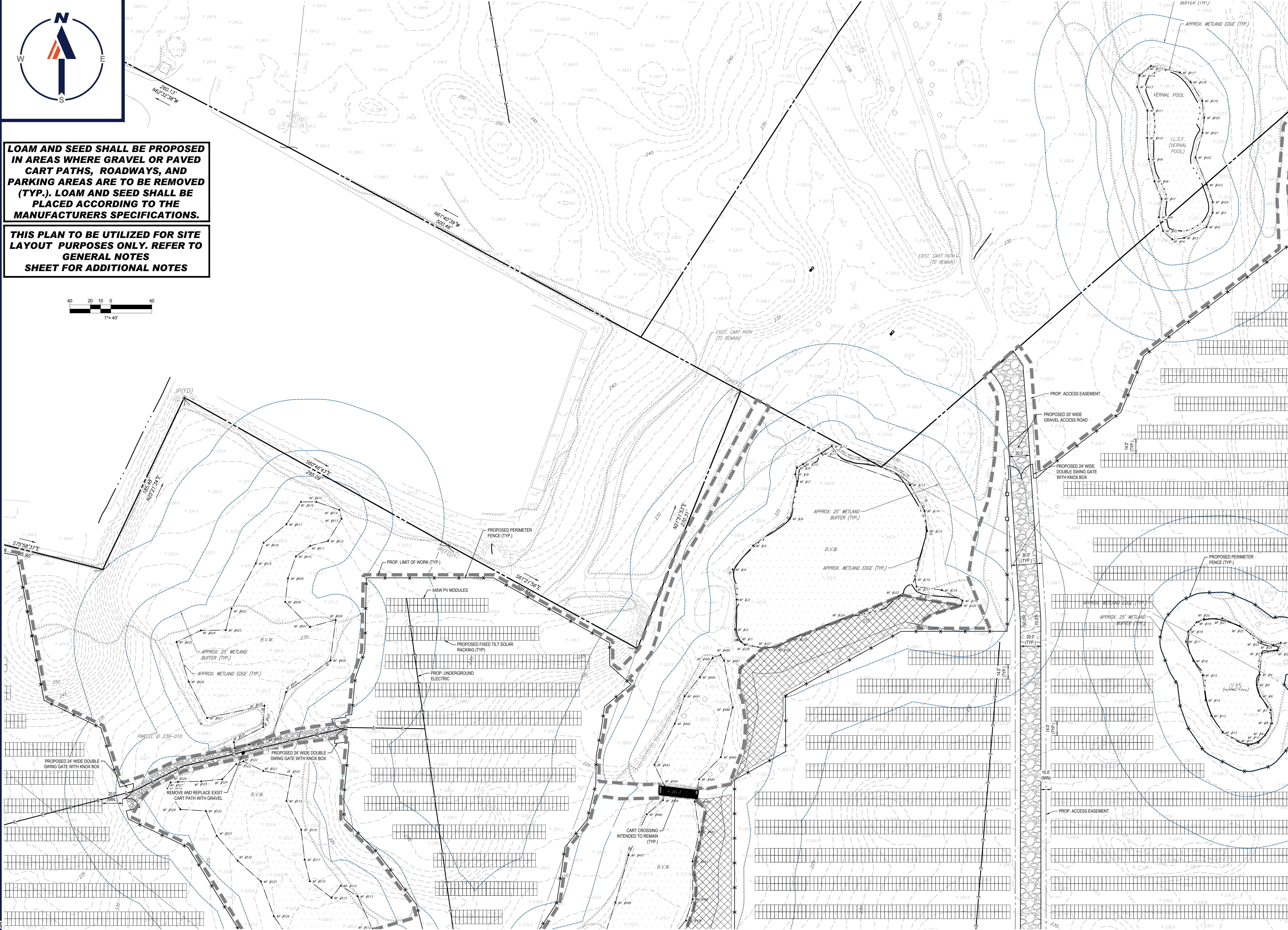
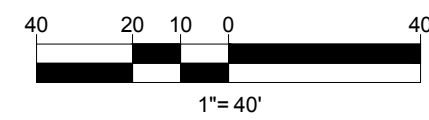
SHEET TITLE:
SITE LAYOUT PLAN A
SHEET NUMBER:
C-302
REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\2023\230712\23CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\W201257.02-SPPD-2A-LAYOUT1-C-302-SITE A



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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 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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PROJECT No.: W201257
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 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-SPFD-2A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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SHEET TITLE:

SITE LAYOUT PLAN B

SHEET NUMBER:
C-303

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MA\PROJECTS\2023\2307\2307-02-SPFD-2A-LAYOUT-C-303-SITE B



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1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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 CAD ID: W201257.02-SPPD-2A

PROPOSED SITE PLAN DOCUMENTS

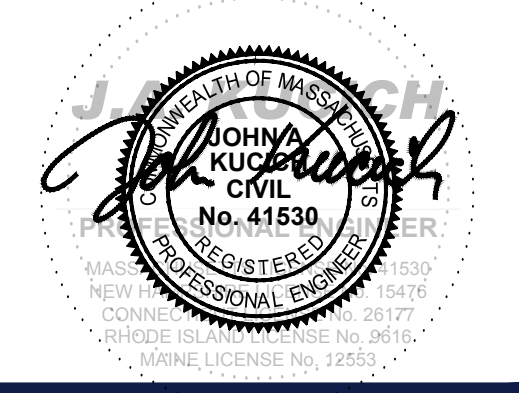
FOR
MAPLE STREET SOLAR LLC

PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
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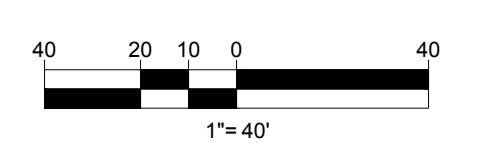
LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

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SHEET TITLE:
SITE LAYOUT PLAN C

SHEET NUMBER:
C-304

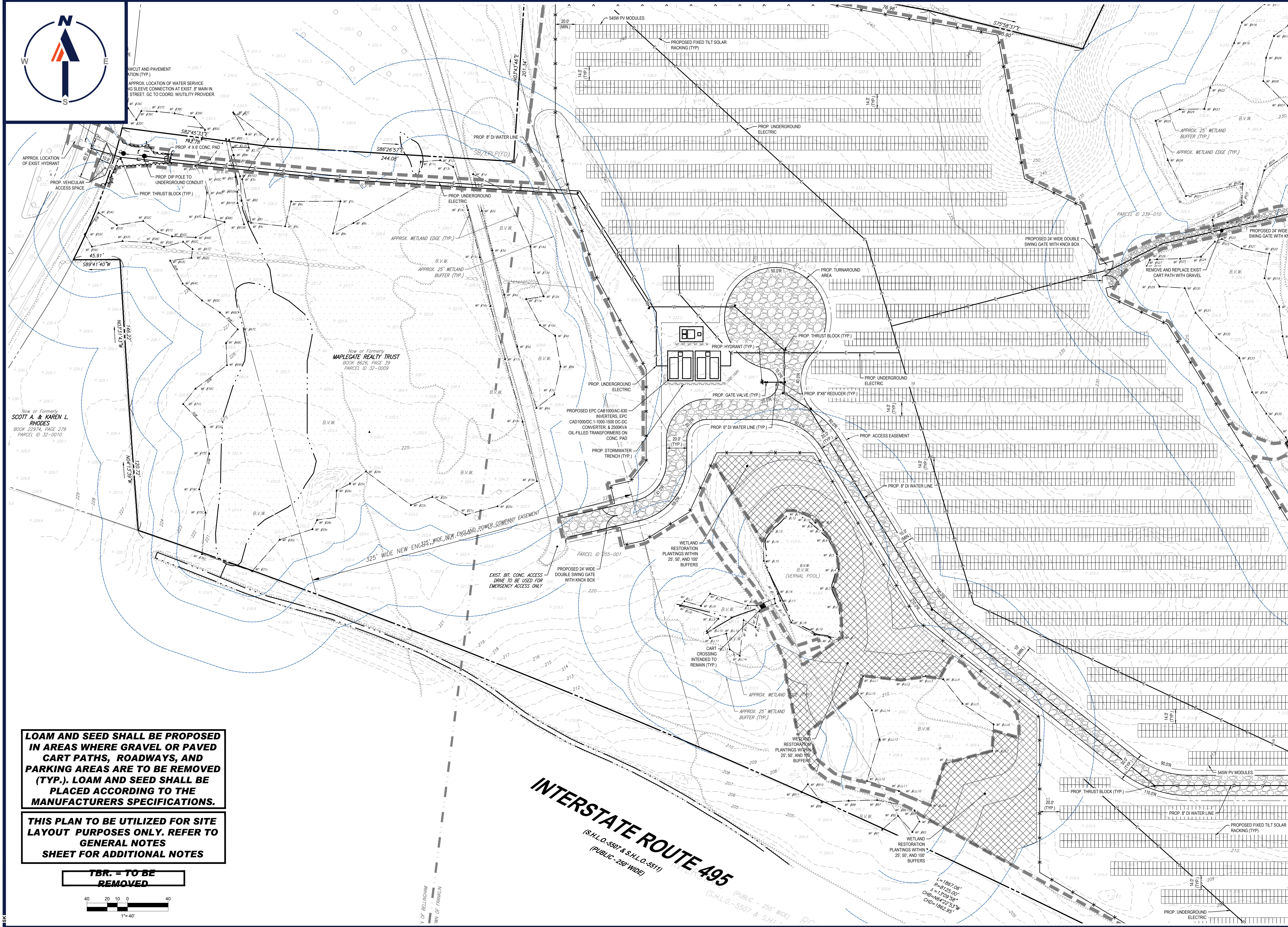
REVISION 2 - 02/16/2024



\BOHLER\ENG\NET\SHARES\MAPLE PROJECTS\2023\02\22\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257.02-SPPD-2A-LAYOUT-C-304-BITE.C



APPROX. LOCATION OF EXIST. HYDRANT
 APPROX. LOCATION OF WATER SERVICE
 TAPPING SLEEVE CONNECTION AT EXIST. 8" MAIN IN
 STREET. GC TO COORD. W/UTILITY PROVIDER.



Now of Formerly
SCOTT A. & KAREN L. RHODES
 BOOK 22974, PAGE 279
 PARCEL ID 32-0010

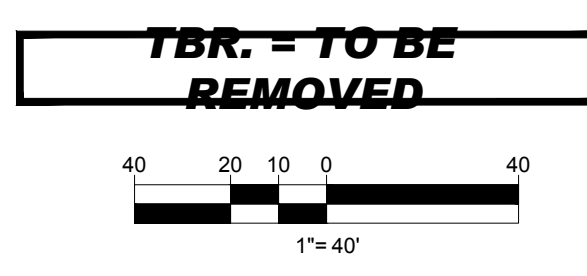
Now of Formerly
MAPLEGATE REALTY TRUST
 BOOK 8626, PAGE 39
 PARCEL ID 32-0009

EXIST. BIT. CONC. ACCESS
 DRIVE TO BE USED FOR
 EMERGENCY ACCESS ONLY

INTERSTATE ROUTE 495
 (S.H.L.O.-5507 & S.H.L.O.-5511)
 (PUBLIC - 250' WIDE)

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REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL
2	02/16/2024	PER TOWN COMMENTS	SMK



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DRAWN BY:	CMC / OCR
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CAD ID:	W201257.02-SPFD-2A

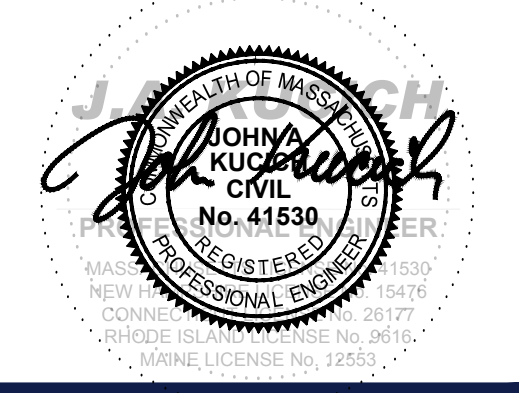
PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC
 PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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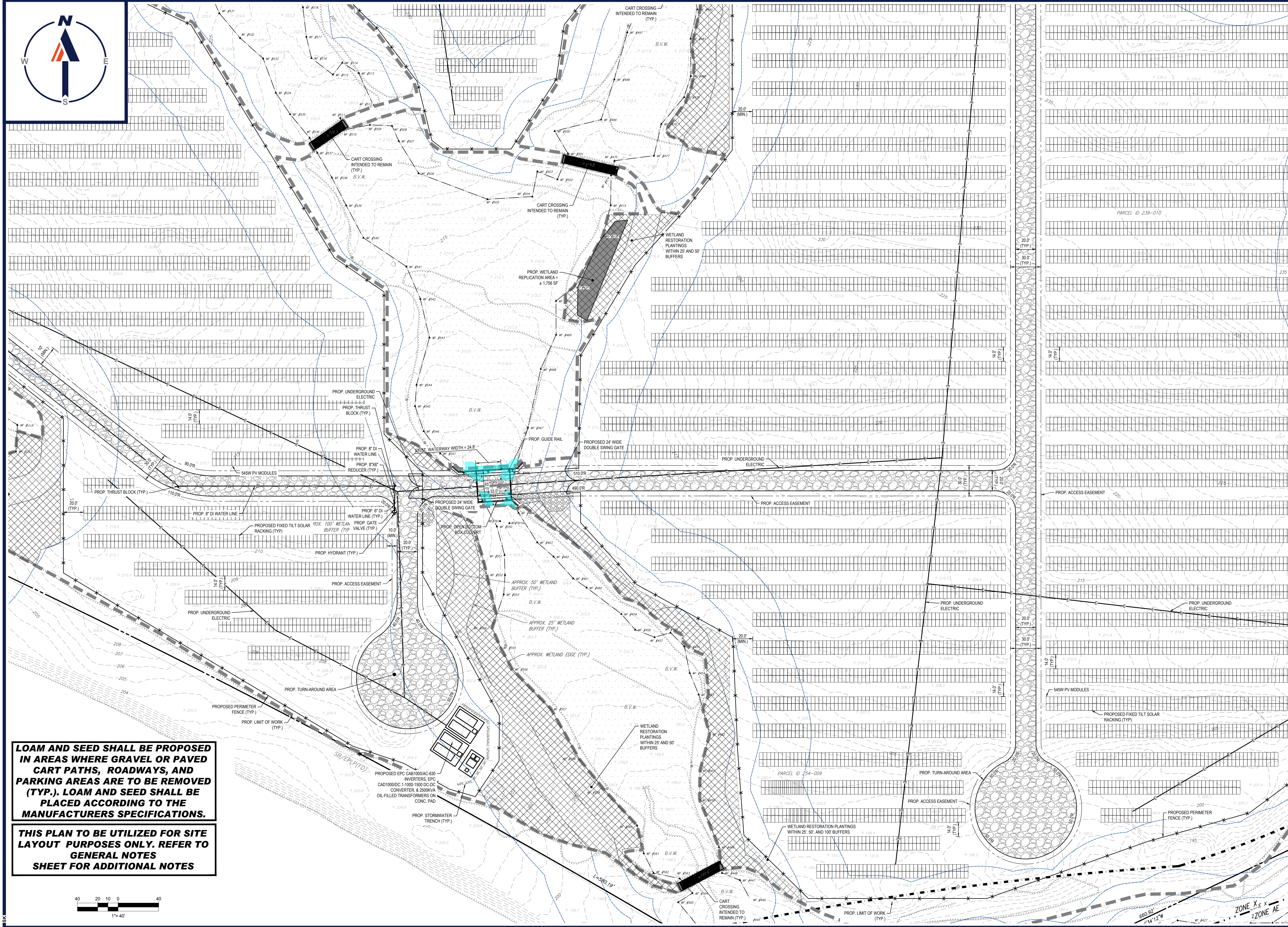


SHEET TITLE:
SITE LAYOUT PLAN D

SHEET NUMBER:
C-305

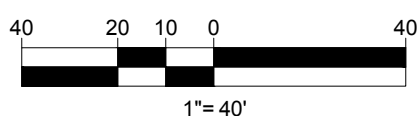
REVISION 2 - 02/16/2024

BOHLERENGINEERING\MASS\PROJECTS\2023\257\257-02-SPFD-2A-LAYOUT-D-305-B1E.DWG



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 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
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 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
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 CAD ID.: W201257.02-SPPD-2A

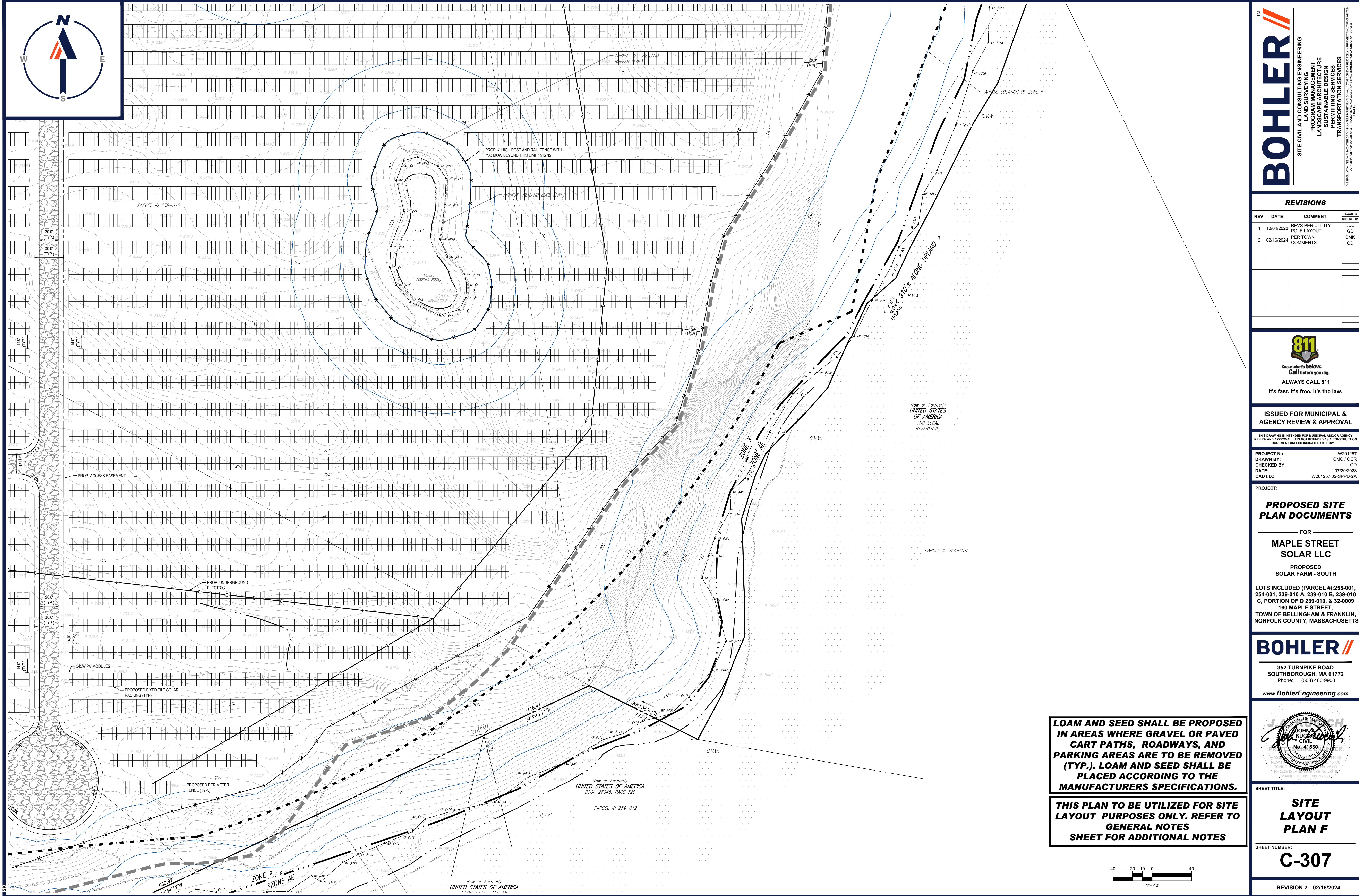
PROPOSED SITE PLAN DOCUMENTS
 FOR
MAPLE STREET SOLAR LLC
 PROPOSED SOLAR FARM - SOUTH
 LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
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 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

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 352 TURNPIKE ROAD
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SHEET TITLE:
SITE LAYOUT PLAN E
 SHEET NUMBER:
C-306
 REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\2023\2372\2372\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257.02-SPPD-2A-LAYOUT E-C-306-SITE E



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 LANDSCAPE ARCHITECTURE
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REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
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2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-SPDP-2A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

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SHEET TITLE:

SITE LAYOUT PLAN F

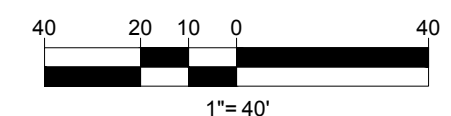
SHEET NUMBER:

C-307

REVISION 2 - 02/16/2024

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.

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



I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\2023\2023-07-20\23-07-20-SPDP-2A\LAYOUT\C-307-SITE F



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 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-GRAD-2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

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.

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 GRADING & UTILITY NOTES

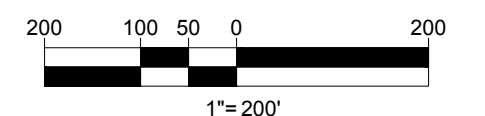
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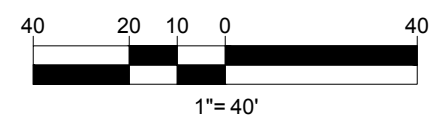
SHEET TITLE:
OVERALL GRADING PLAN

SHEET NUMBER:
C-401

REVISION 2 - 02/16/2024



\BOHLER\ENG\NET\SHARES\MA\PROJECTS\2023\257\257.ZIP\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\W201257.02-GRAD-2A-LAYOUT.C401-GRAD-OVERALL

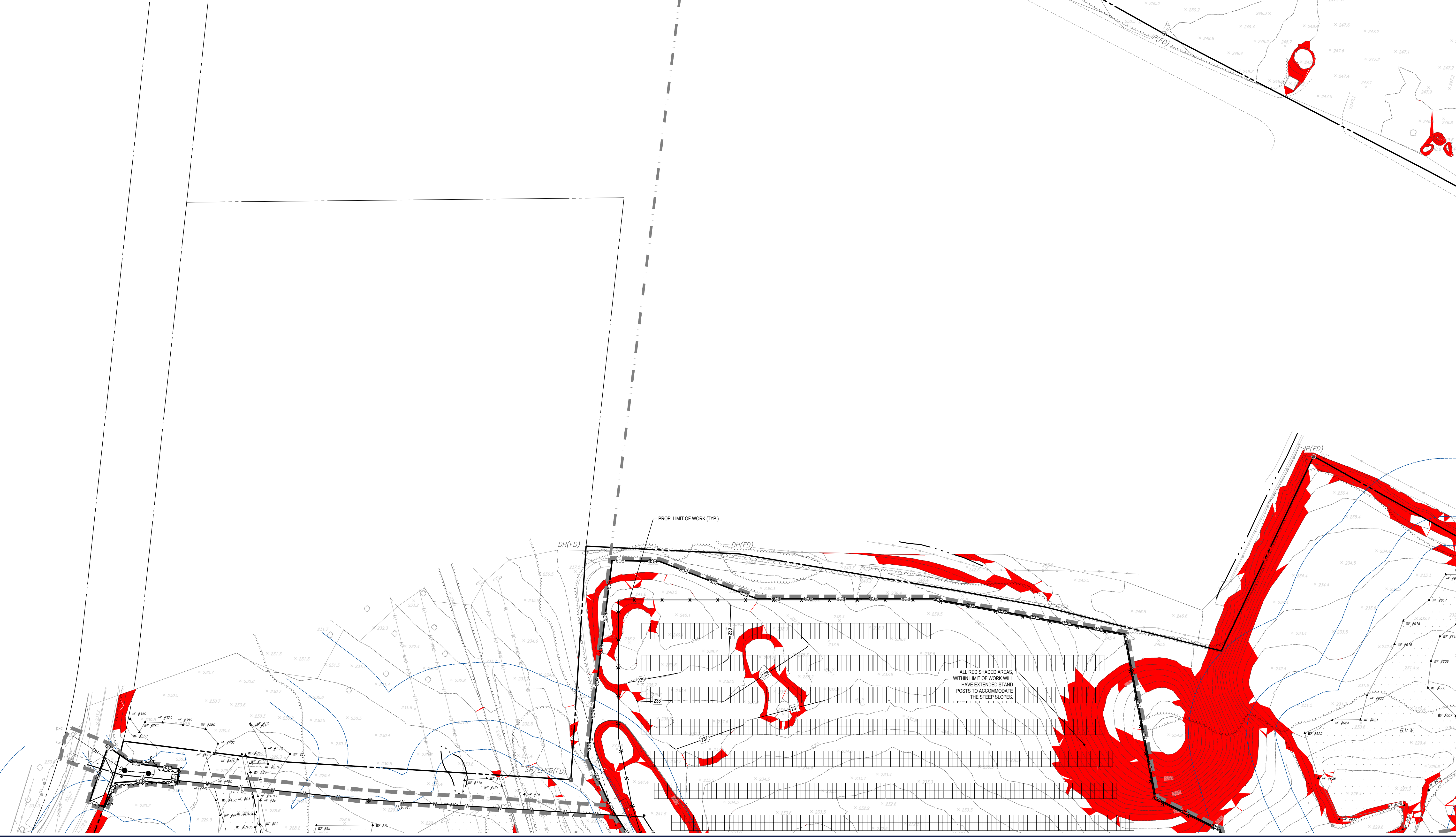
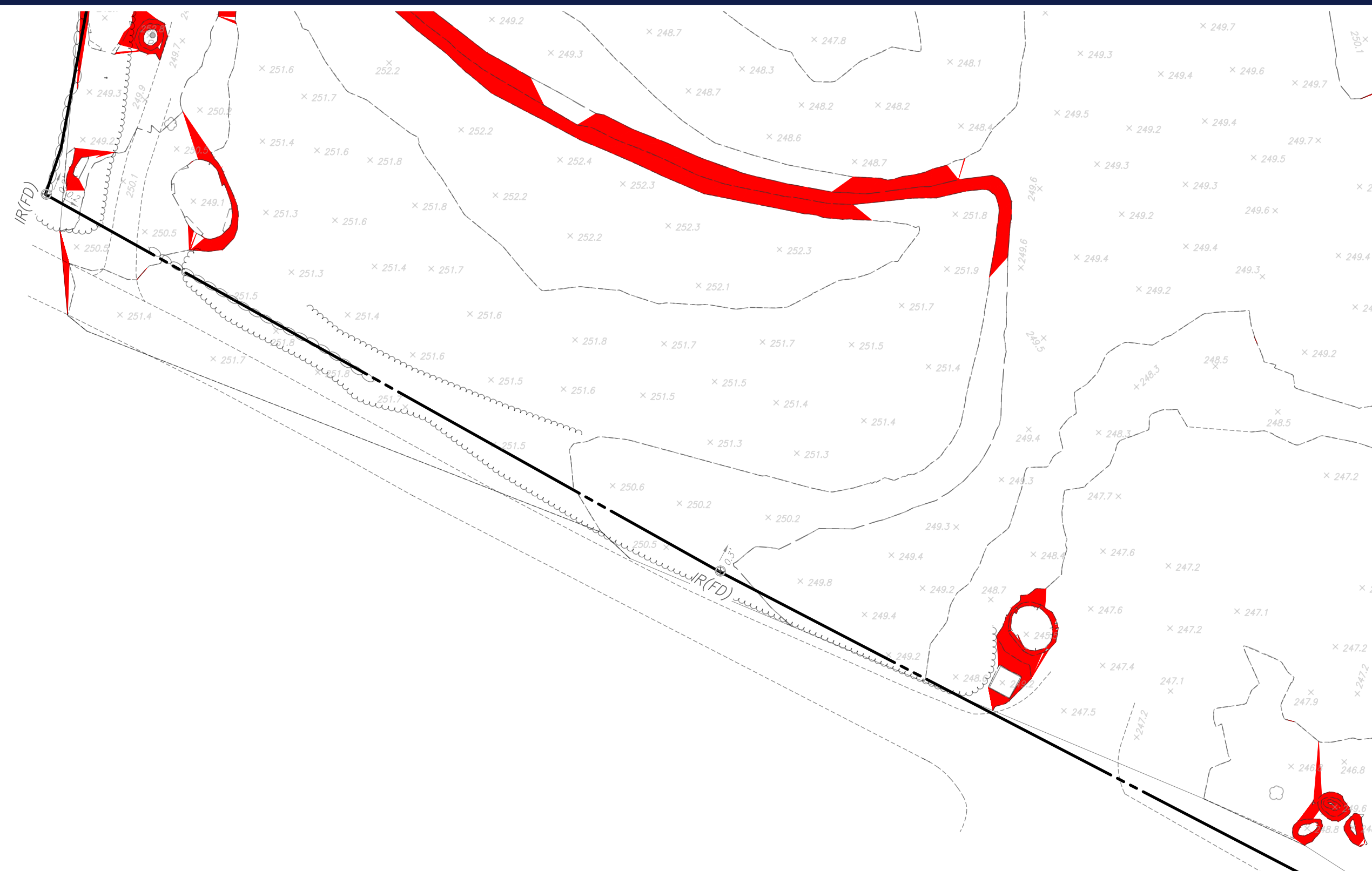


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THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES



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

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REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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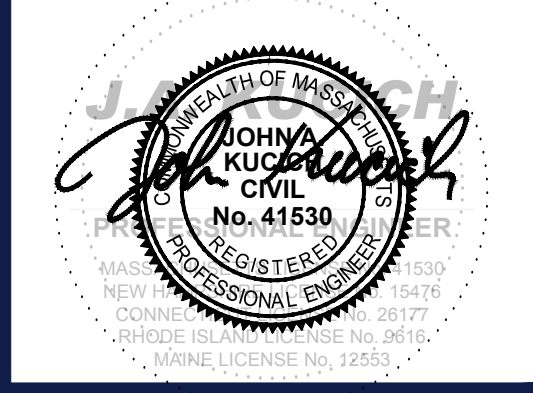
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PROJECT No.: W201257
DRAWN BY: CMC / OCR
CHECKED BY: GD
DATE: 07/20/2023
CAD ID: W201257.02-GRAD-2A

PROJECT:
PROPOSED SITE PLAN DOCUMENTS
FOR
MAPLE STREET SOLAR LLC
PROPOSED SOLAR FARM - SOUTH
LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
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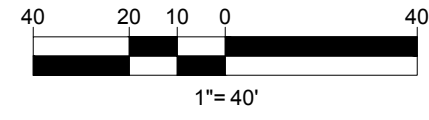


SHEET TITLE:
GRADING PLAN A

SHEET NUMBER:
C-402

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\W201257\22\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\W201257.02-GRAD-2A-...LAYOUT: C-402-GRAD-A

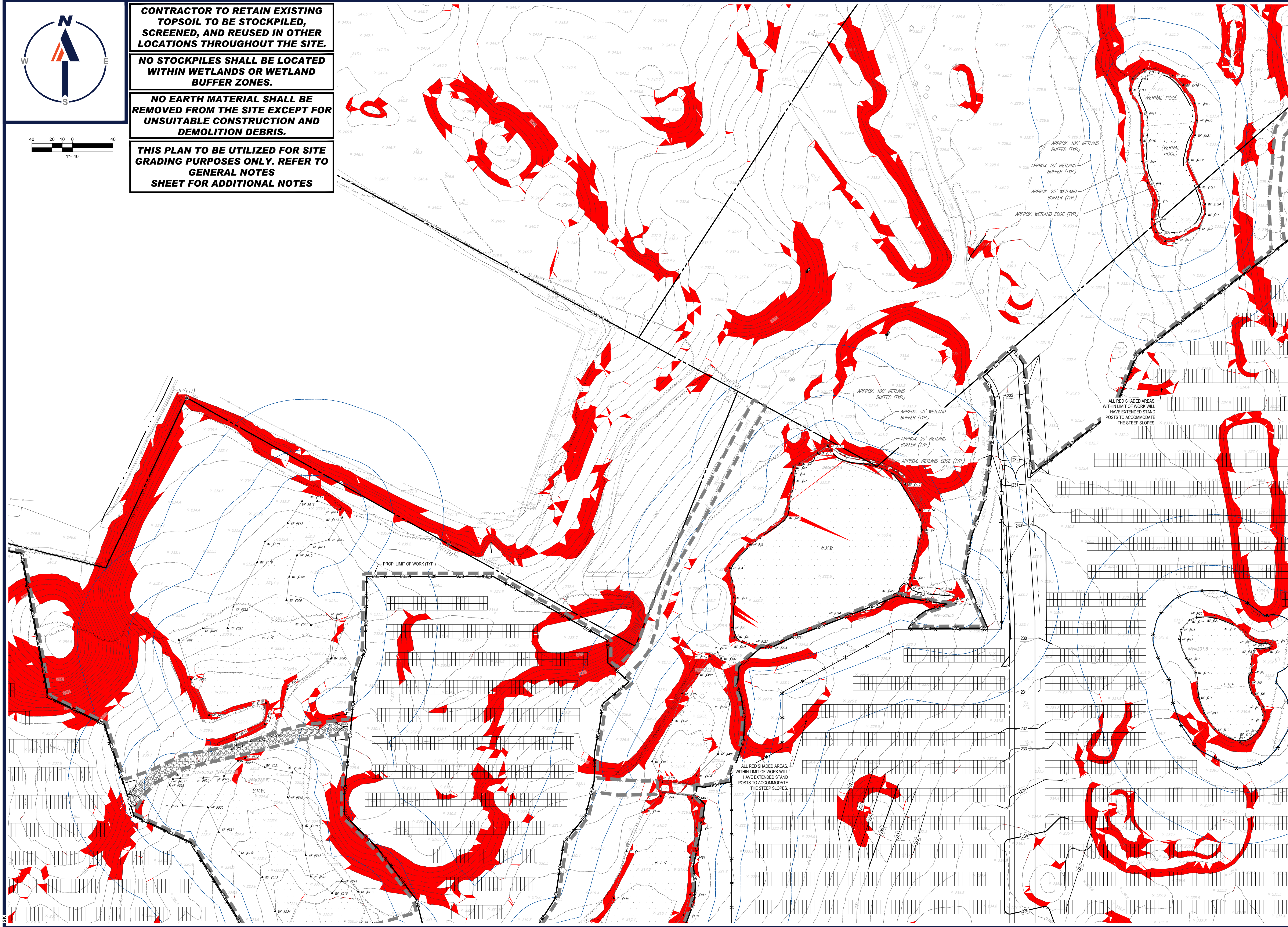


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REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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FOR
MAPLE STREET SOLAR LLC

PROPOSED SOLAR FARM - SOUTH

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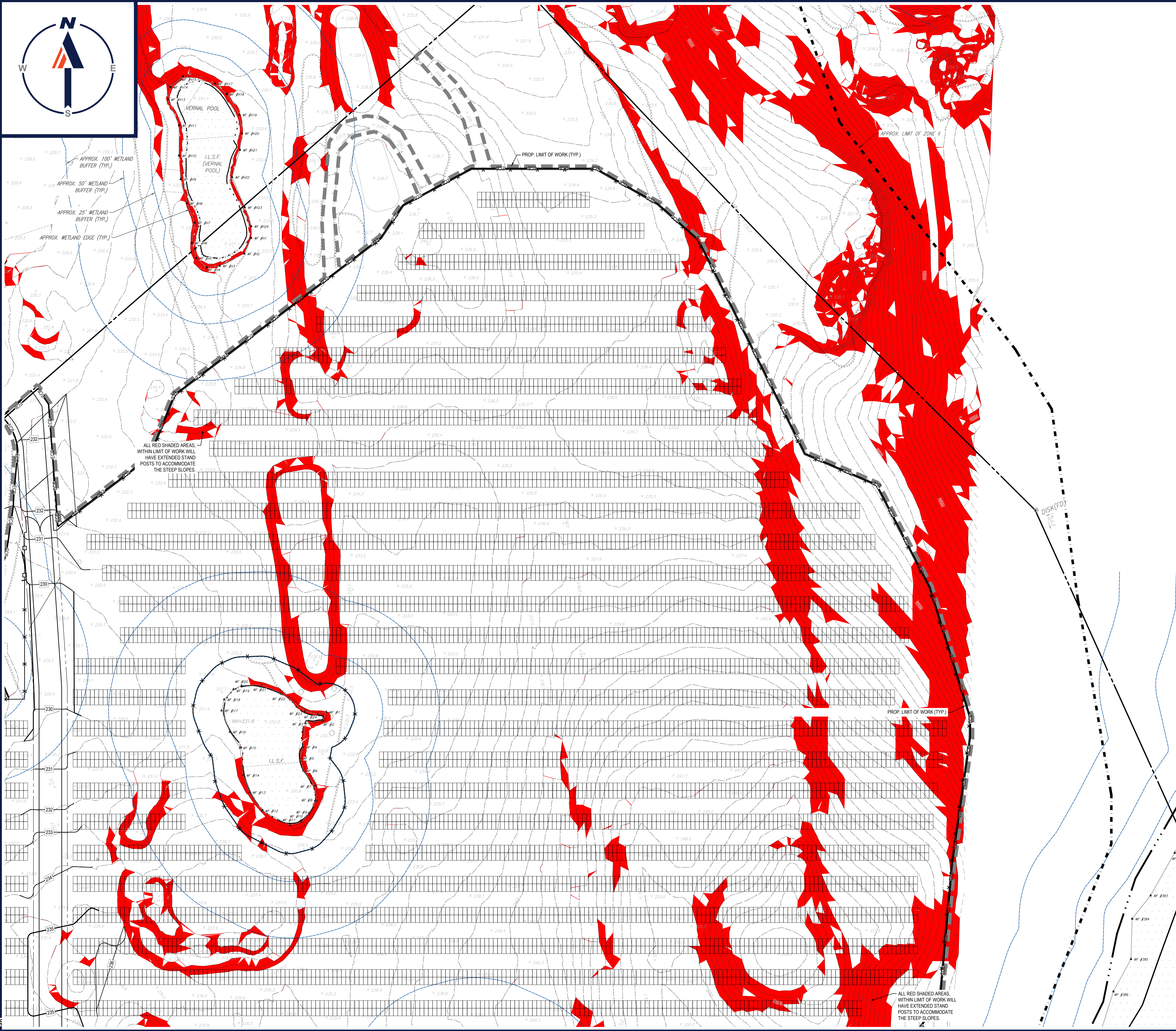
SHEET TITLE:

GRADING PLAN B

SHEET NUMBER:
C-403

REVISION 2 - 02/16/2024

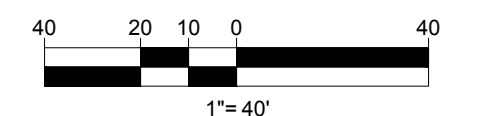
I:\BOHLER\NET\SHARED\MA\PROJECTS\W201257\22\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\W201257.02-GRAD-2A-LAYOUT_C-403-GRAD.B



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

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REV	DATE	COMMENT	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-GRAD-2A

PROPOSED SITE PLAN DOCUMENTS
 FOR
MAPLE STREET SOLAR LLC
 PROPOSED
 SOLAR FARM - SOUTH
 LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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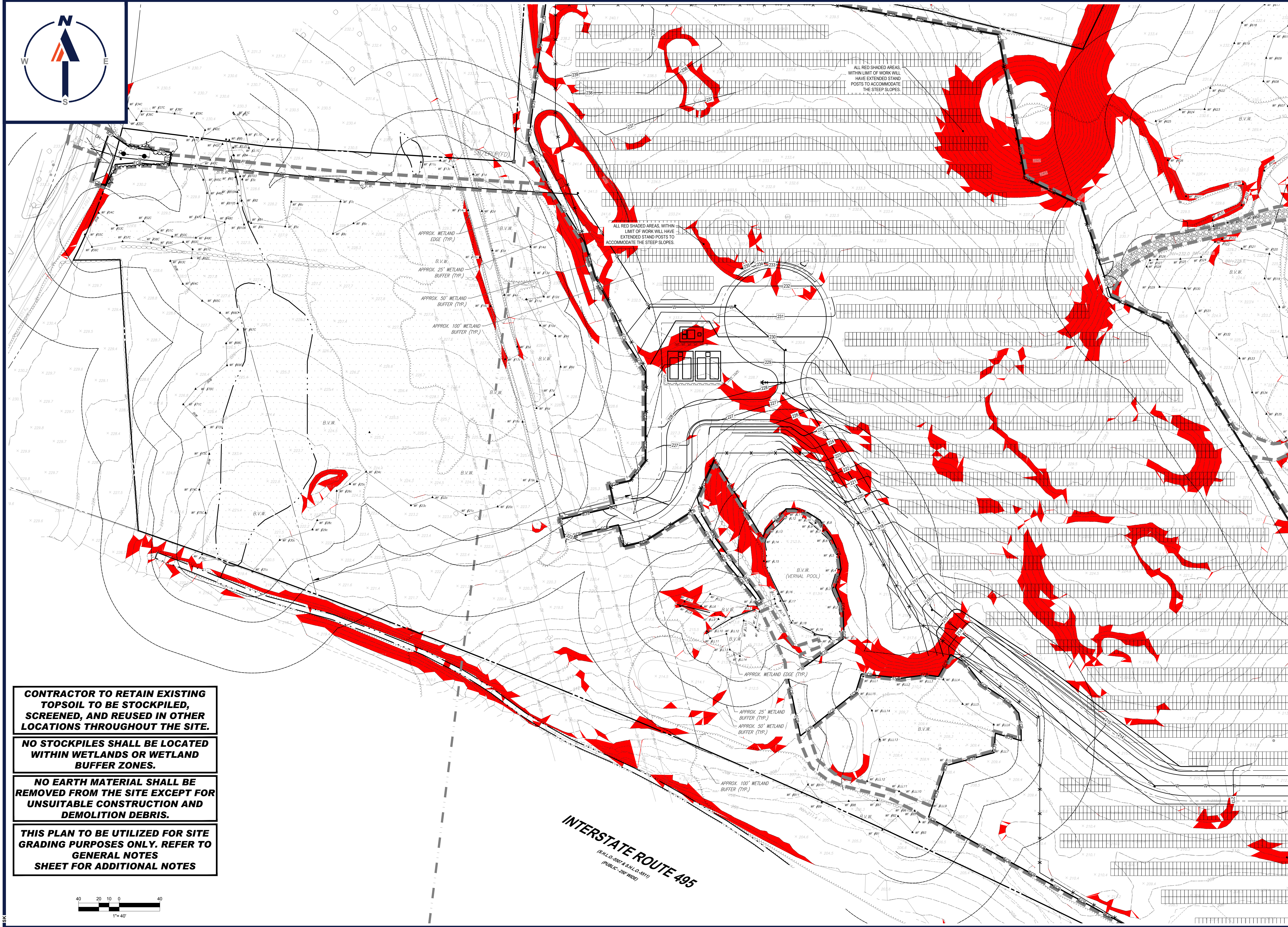


SHEET TITLE:
GRADING PLAN C

SHEET NUMBER:
C-404

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\BMAP\PROJECTS\2023\257\257-02-GRAD-2A-LAYOUT_C-404-GRAD-C

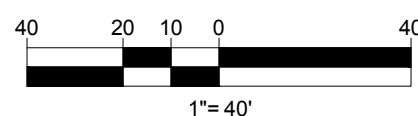


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INTERSTATE ROUTE 495
 (S.H.L.O. 550/4, S.H.L.O. 551/1)
 (PUBLIC - 28' WIDE)

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REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL
2	02/16/2024	PER TOWN COMMENTS	SMK

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FOR
MAPLE STREET SOLAR LLC

PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
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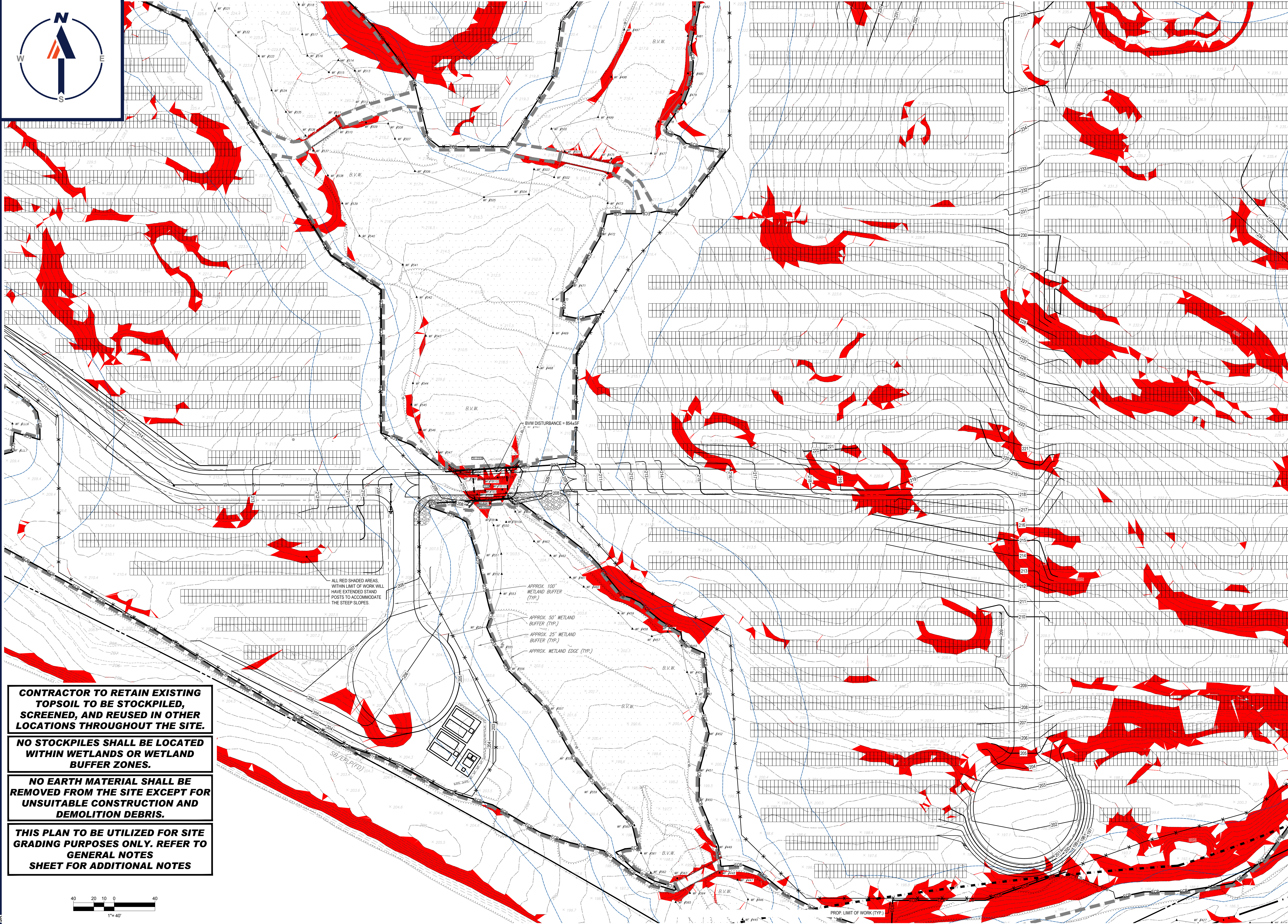


SHEET TITLE:
GRADING PLAN D

SHEET NUMBER:
C-405

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\2023\2302\2302\2302\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257.02-GRAD-2A-LAYOUT-1-C-405-GRAD.D



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

APPROX. 100' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. WETLAND EDGE (TYP.)

B.V.W.

B.V.W. DISTURBANCE = 854±SF

PROP. LIMIT OF WORK (TYP.)

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PROJECT No.: W201257
DRAWN BY: CMC / OCR
CHECKED BY: GD
DATE: 07/20/2023
CAD ID: W201257.02-GRAD-2A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
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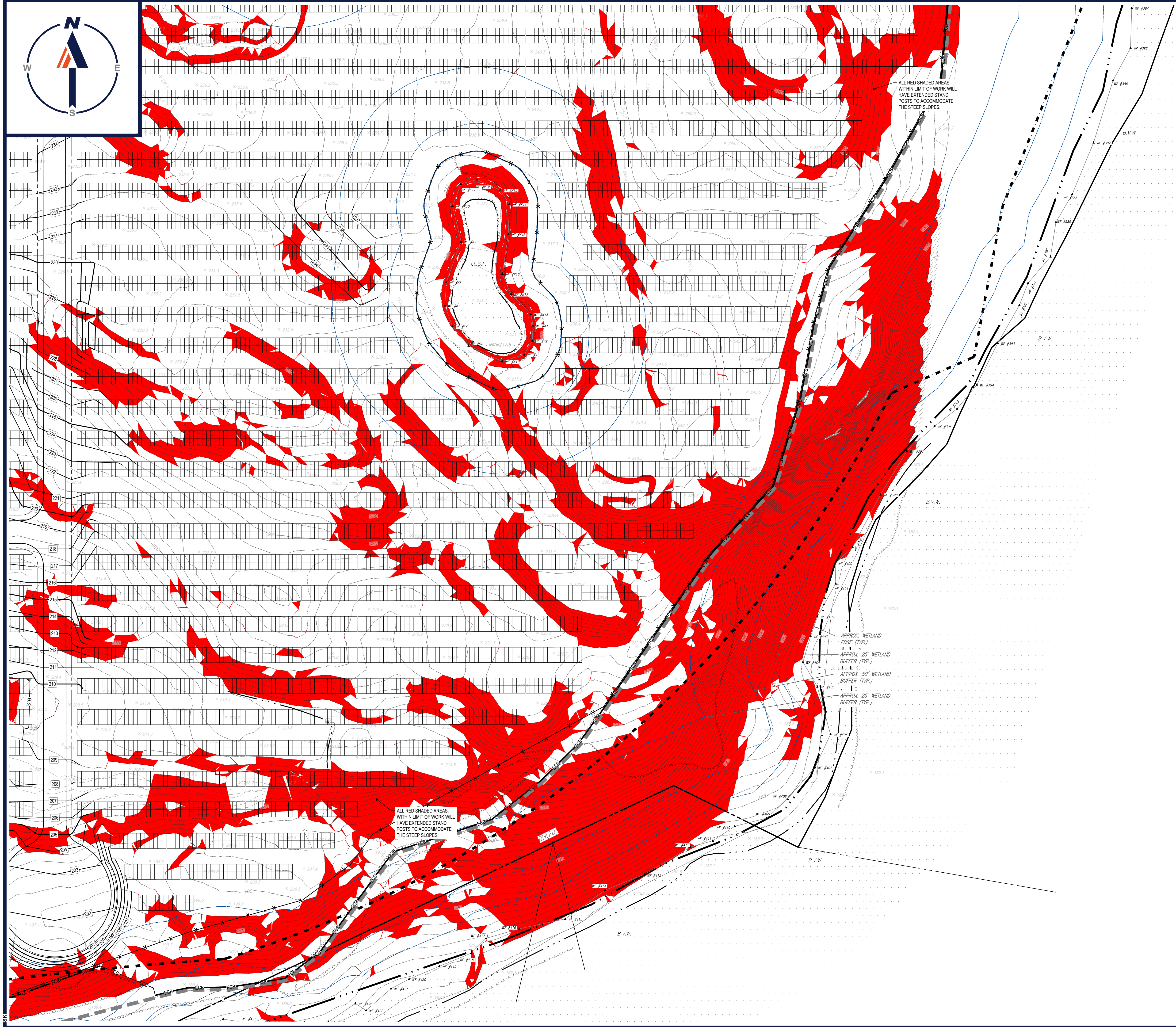
SHEET TITLE:

GRADING PLAN E

SHEET NUMBER:
C-406

REVISION 2 - 02/16/2024

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APPROX. WETLAND EDGE (TYP.)
APPROX. 25' WETLAND BUFFER (TYP.)
APPROX. 50' WETLAND BUFFER (TYP.)
APPROX. 25' WETLAND BUFFER (TYP.)

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 FOR
MAPLE STREET SOLAR LLC
 PROPOSED SOLAR FARM - SOUTH

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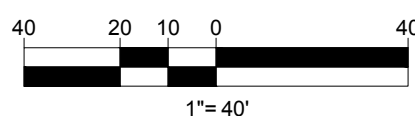


SHEET TITLE:
GRADING PLAN F

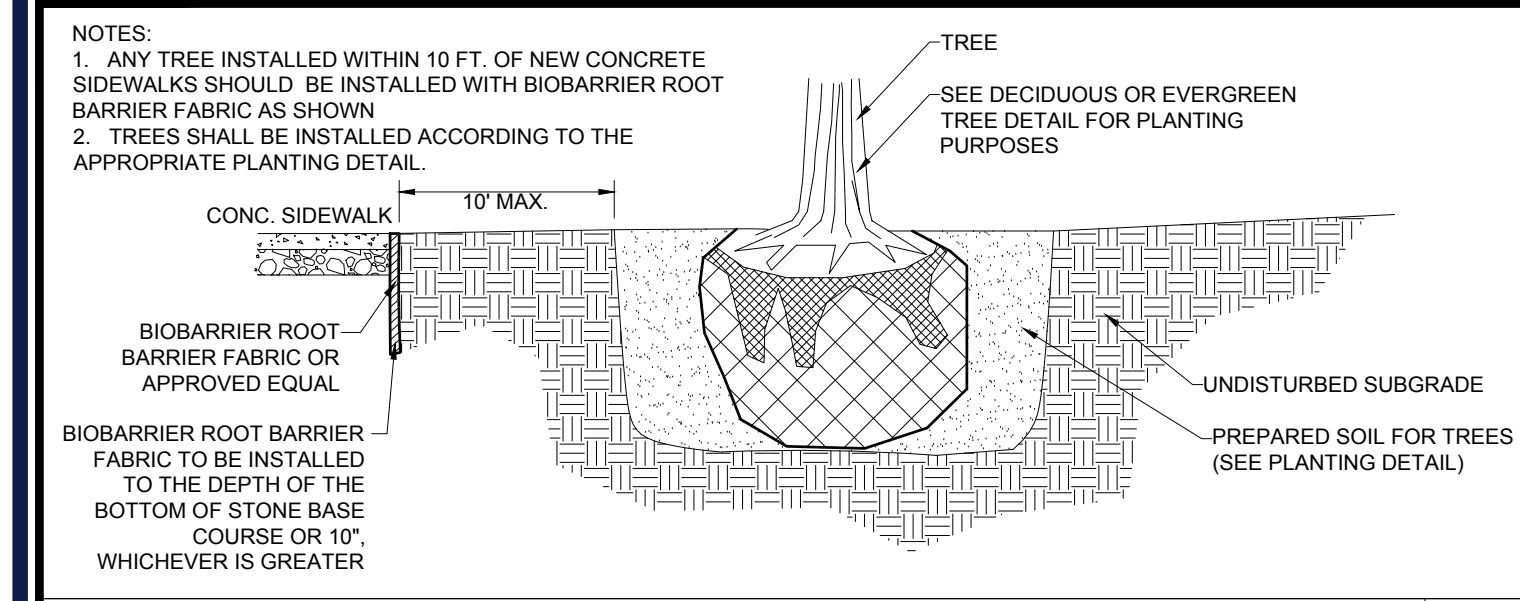
SHEET NUMBER:
C-407

REVISION 2 - 02/16/2024

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BIOBARRIER ROOT BARRIER DETAIL

N.T.S.

NEW ENGLAND CONSERVATION/ WILDLIFE SEED MIX AS PREPARED BY:

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

APPLICATION RATE: 25 LBS/ACRE | 1750 SQ FT/LB
MINIMUM ORDER: 2 LBS

SPECIES: VIRGINIA WILD RYE (ELYMUS VIRGINICUS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM (ANDROPOGON GERARDII), RED FESCUE (FESTUCA RUBRA), SWITCH GRASS (PANICUM VIRGATUM), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), PANICLELEAF TICK TREFOLI (DESMODIUM PANICULATUM), INDIAN GRASS (SORGHASTRUM NUTANS), BLUE VERVAIN (VERBENA HASTATA), BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA), BLACK EYED SUSAN (RUDBECKIA HIRTA), COMMON SNEEZEWEED (HELENIUM AUTUNALE), HEATH ASTER (ASTER PILOSUS/SYMPHYOTRICHUM PILOSUM), EARLY GOLDENROD (SOLIDAGO UNCLONATA), UPLAND BENTGRASS (AGROSTIS PERENNANS).

NEW ENGLAND CONSERVATION/ WILDLIFE SEED MIX SPECIFICATIONS

PLANT SCHEDULE					
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
AC	2	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	2.5" CAL	B&B
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
CA	14	CLETHRA ALNIFOLIA	SUMMERSWEET	5 GAL.	CONTAINER
COAM	6	CORNUS AMOMUM	SILKY DOGWOOD	3-4"	CONTAINER
CS	11	CORNUS SERICEA	RED TWIG DOGWOOD	2-3"	B&B
IW	10	ILEX VERTICILLATA	WINTERBERRY	36-42"	CONTAINER
LB	8	LINDERA BENZOIN	SPICEBUSH	30-36"	CONTAINER
VC	9	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18-24"	CONTAINER

WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.

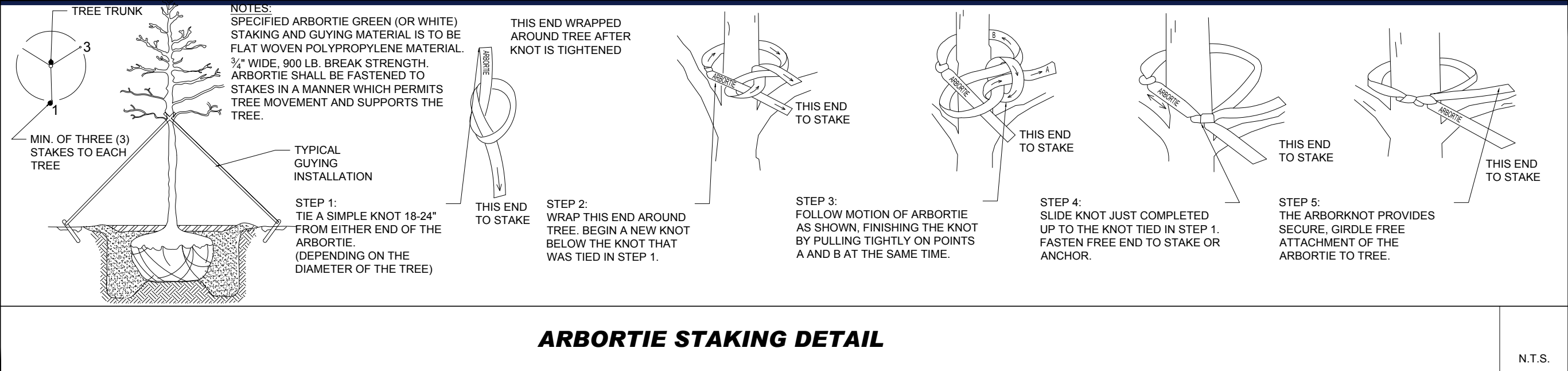
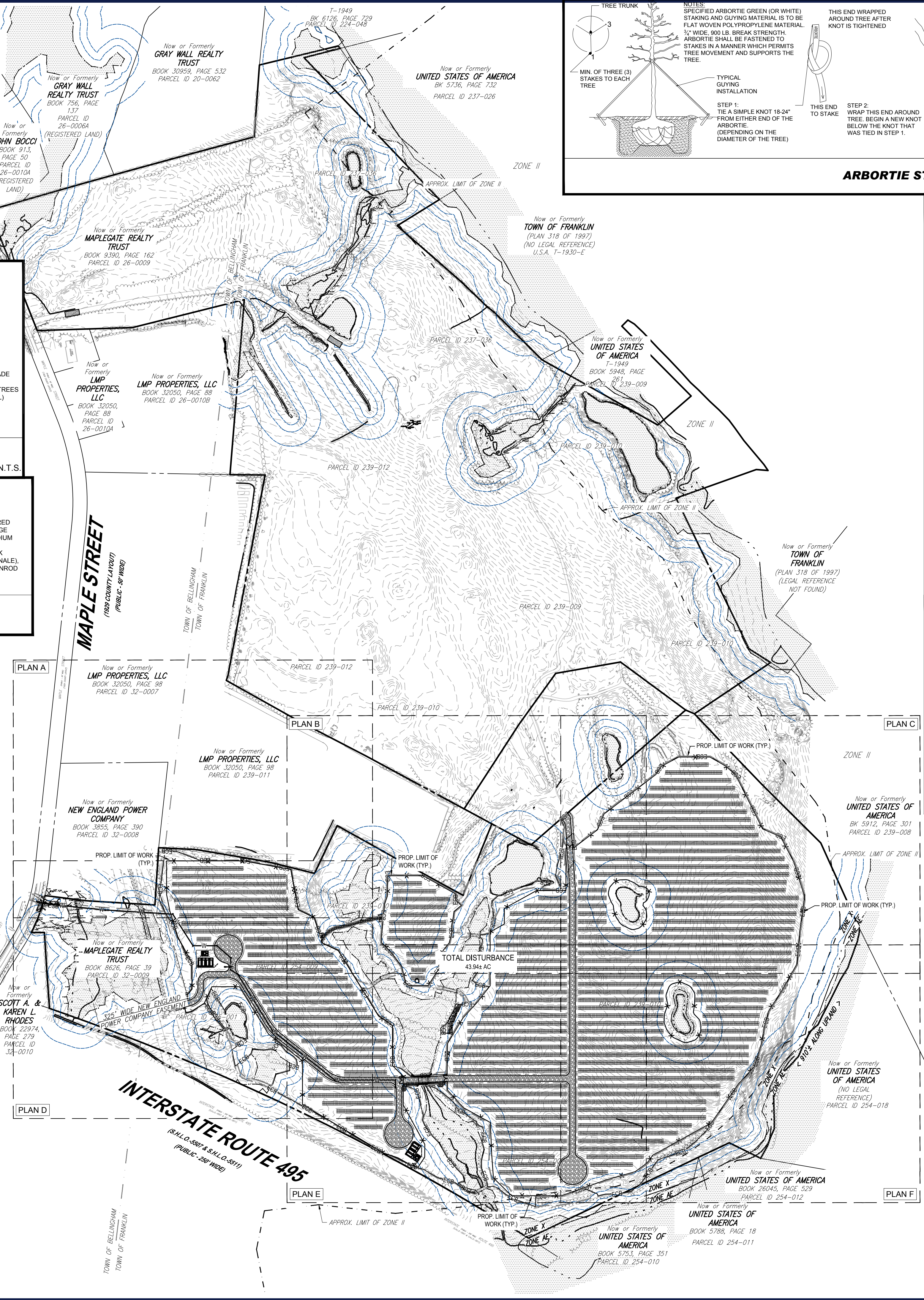
OWNER MAINTENANCE RESPONSIBILITIES

UPON OWNERS (OR OWNER CONTRACTORS) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION PLANTS, TREES, BUSHES, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVELED SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND THROUGH-DRIVEWAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

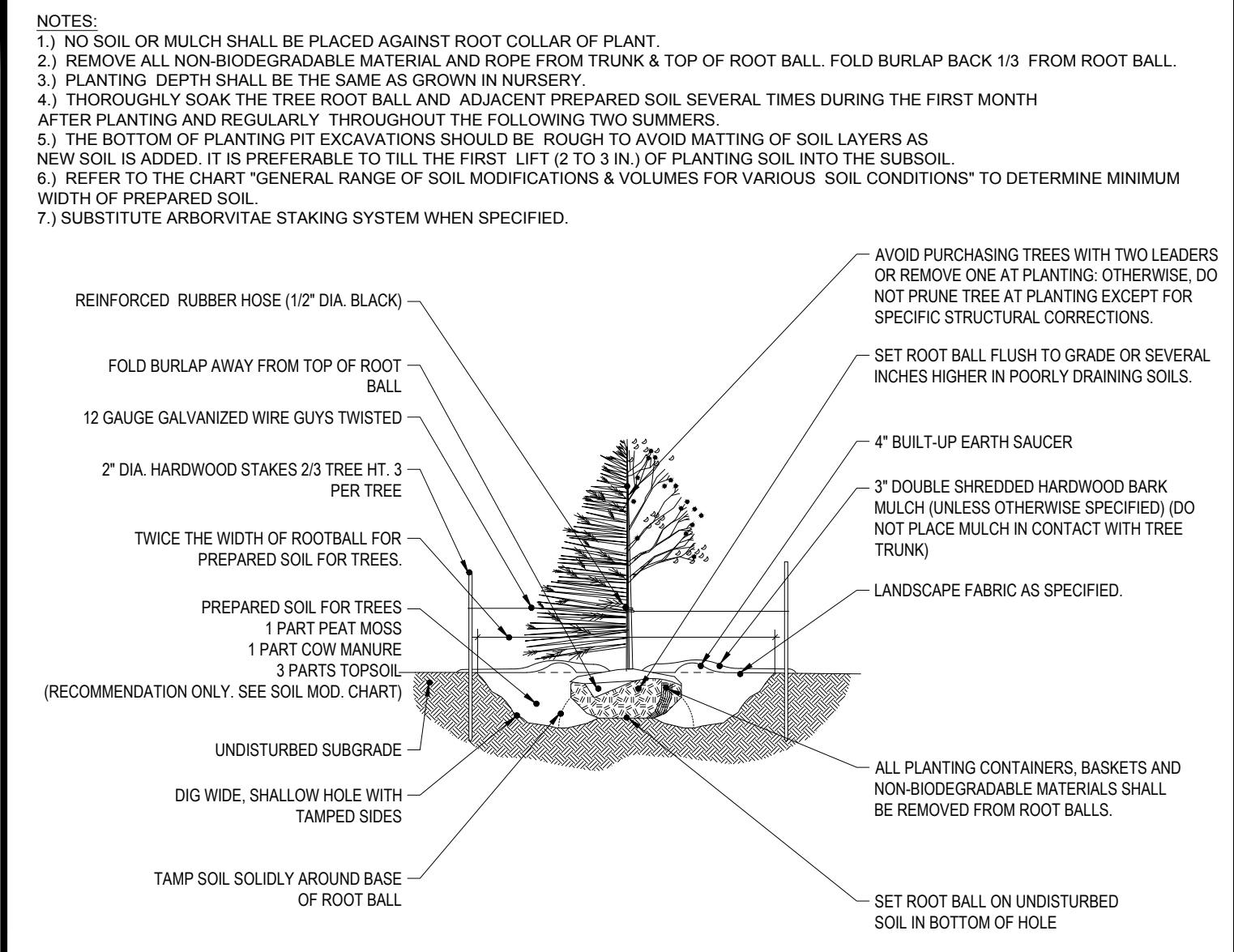
THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEES THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

BOHLER ENGINEERING, INC. PROJECT: 2023-02-EROS-2A SITE PLAN: 2023-02-EROS-2A LAYOUT: C-601-OVERALL EROS



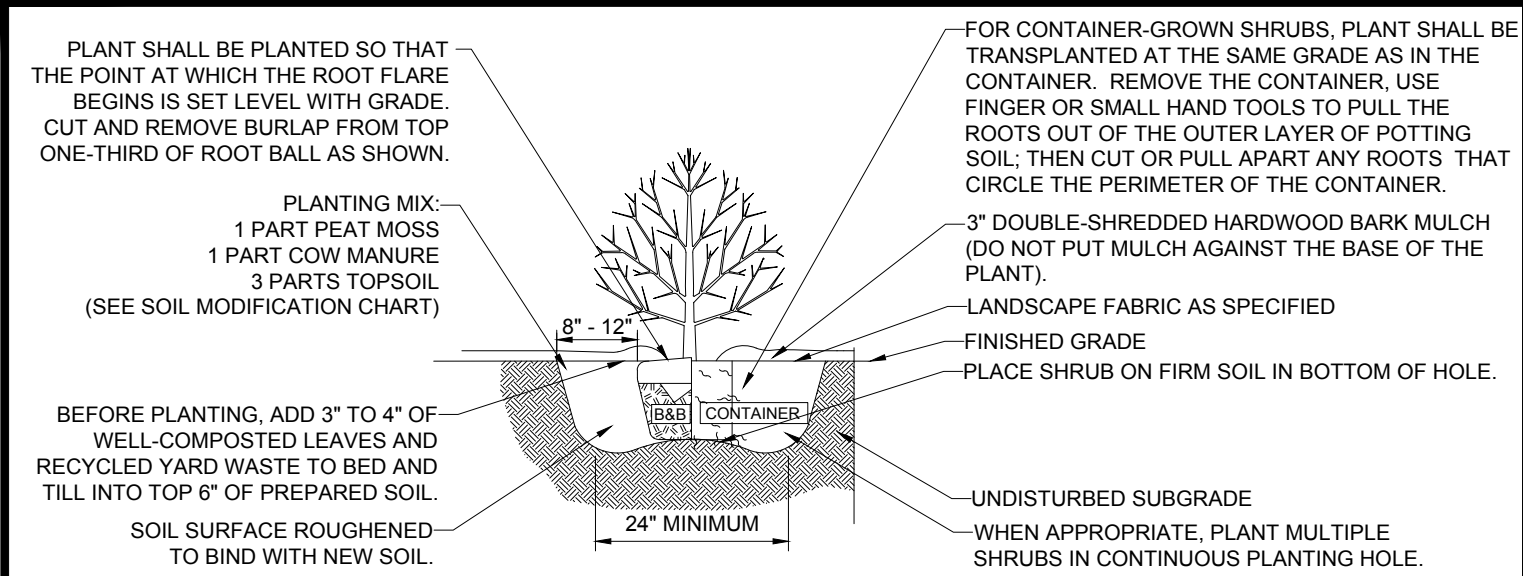
ARBORTIE STAKING DETAIL

N.T.S.



TREE PLANTING DETAIL

N.T.S.



SHRUB PLANTING DETAIL

N.T.S.

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.

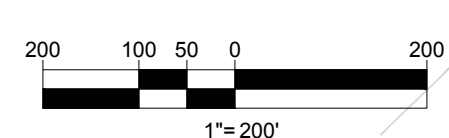
STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

NEW ENGLAND CONSERVATION/WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.



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TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.:	W201257
DRAWN BY:	CMC / OCR
CHECKED BY:	GD
DATE:	07/20/2023
CAD LID:	W201257-02-EROS-2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC
PROPOSED
SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

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

JOHN A. BOHLER
REGISTERED PROFESSIONAL ENGINEER
NO. 41530
MAINE LICENSE NO. 12555-01

SHEET TITLE:
OVERALL EROSION & SEDIMENT CONTROL PLAN
SHEET NUMBER:
C-601
REVISION 2 - 02/16/2024



MAPLE STREET
(Public - 50' Wide)
(1929 County Layout)

LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 32-0007

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 239-011

Now or Formerly
NEW ENGLAND POWER COMPANY
BOOK 3855, PAGE 390
PARCEL ID 32-0008

REFER TO SHEET C-601 FOR
LANDSCAPE SCHEDULE

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

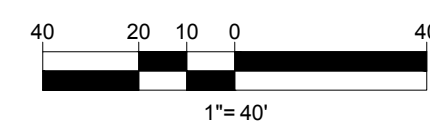
THIS PLAN TO BE UTILIZED FOR SITE
SOIL AND EROSION CONTROL
PURPOSES ONLY

NEW ENGLAND CONSERVATION/WILDLIFE
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
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AND SILT FENCE UNLESS OTHERWISE
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INFORMATION.

WETLAND BOUNDARIES AND
RESTORATION AREAS SHALL BE
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1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.: W201257
DRAWN BY: CMC / OCR
CHECKED BY: GD
DATE: 07/20/2023
CAD ID: W201257.02-EROS-2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

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



SHEET TITLE:
EROSION & SEDIMENT CONTROL PLAN A

SHEET NUMBER:
C-602

REVISION 2 - 02/16/2024

BOHLER ENGINEERING, INC. PROJECT: W201257.02-EROS-2A SITE PLAN: W201257.02-EROS-2A LAYOUT: C-602-EROS.A



REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE

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

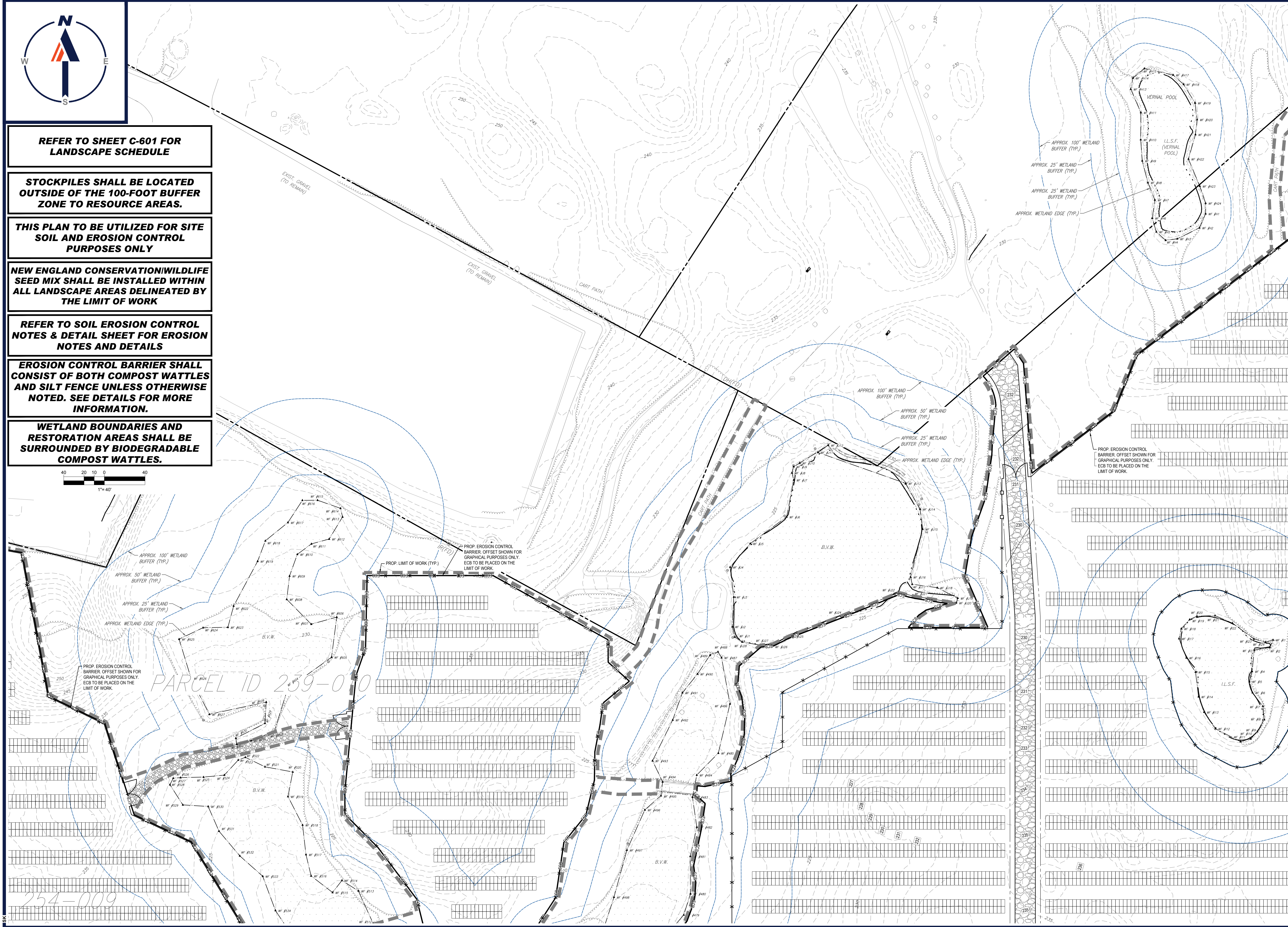
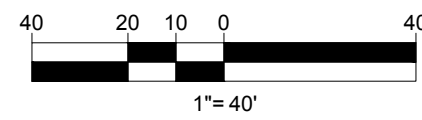
THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

NEW ENGLAND CONSERVATION WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.

WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.



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REVISIONS

REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-EROS.2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
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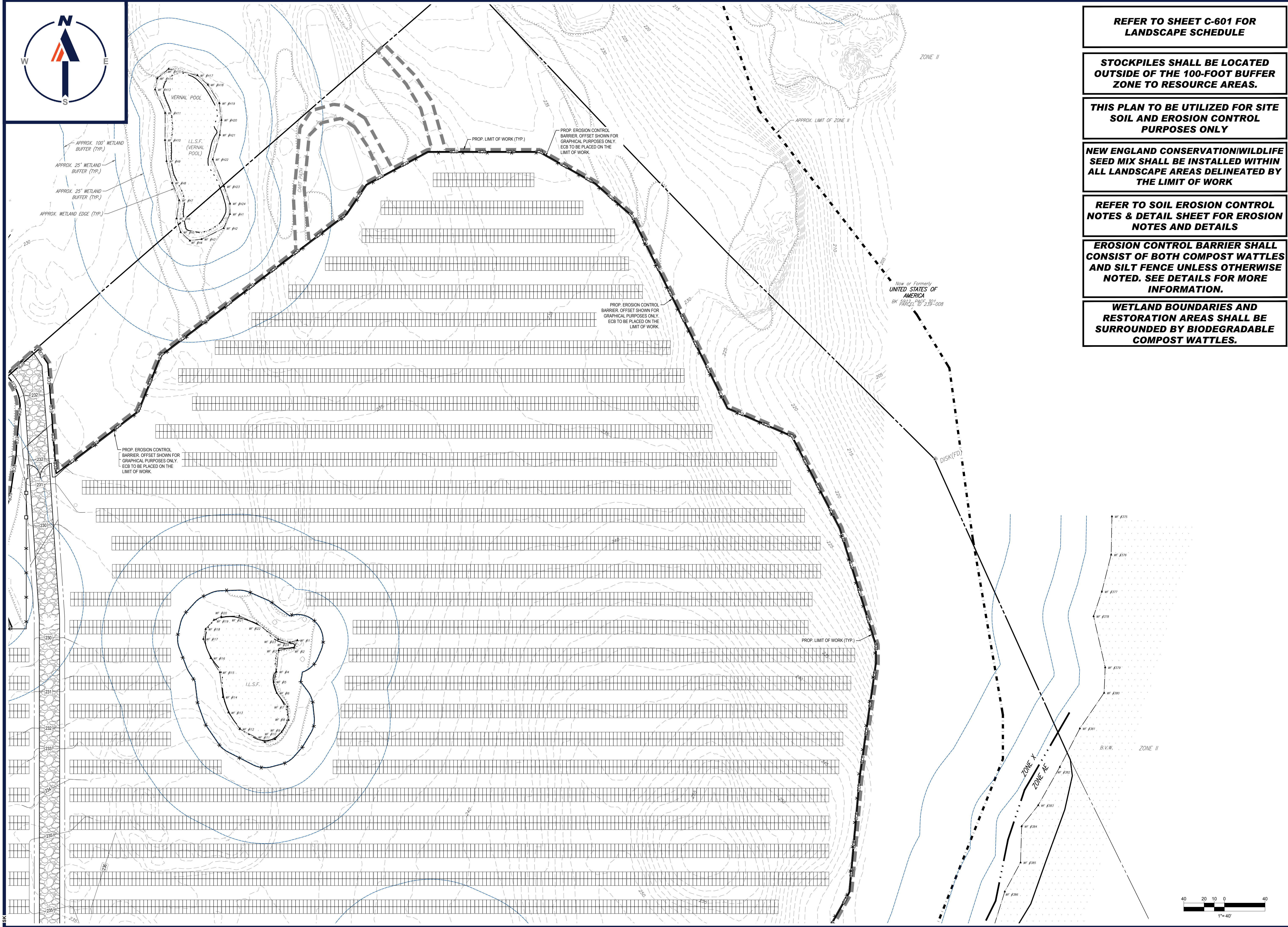
JOHN A. BOHLER
 CIVIL ENGINEER
 No. 41530
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF MASSACHUSETTS
 LICENSE NO. 01976
 EXPIRES 06/30/2025
 MAINE LICENSE NO. 12555

SHEET TITLE:
EROSION & SEDIMENT CONTROL PLAN B

SHEET NUMBER:
C-603

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\BMA\PROJECTS\2023\257\257.D\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257.02-EROS.2A-1-24\LAYOUT_C-603-EROS.B



REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE

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

NEW ENGLAND CONSERVATION/WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.

WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.

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REVISIONS

REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL	GD
2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-EROS.2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC
 PROPOSED SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

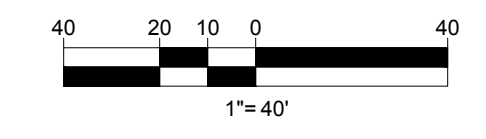
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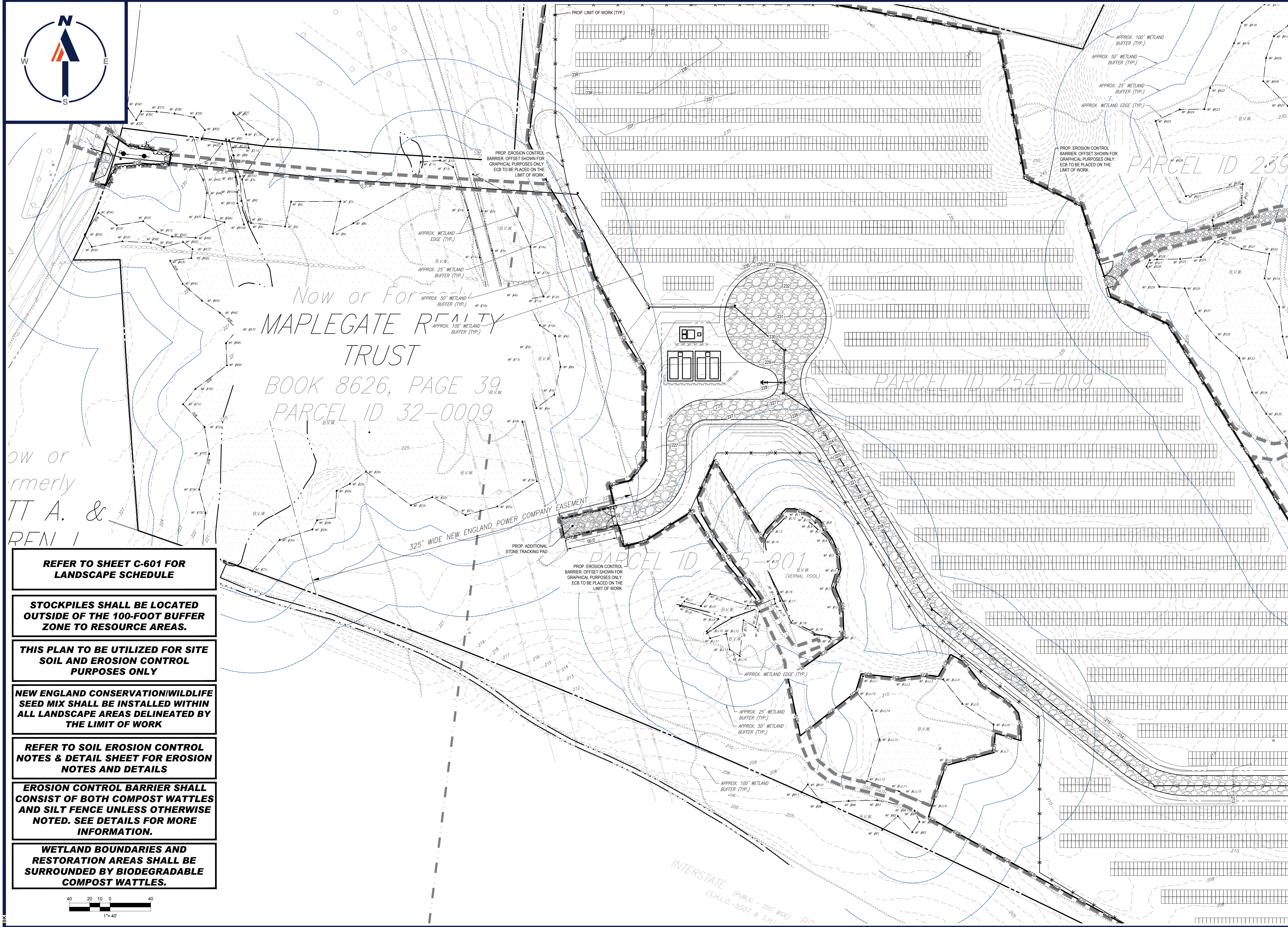
SHEET TITLE:
EROSION & SEDIMENT CONTROL PLAN C

SHEET NUMBER:
C-604

REVISION 2 - 02/16/2024



BOHLER ENGINEERING, INC. PROJECT: 20230201257.02-EROS.2A - LAYOUT: C-604-EROS.C



Now or Formerly
TT A. &
REFN 1

**REFER TO SHEET C-601 FOR
LANDSCAPE SCHEDULE**

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

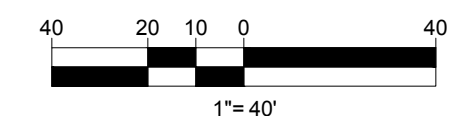
**THIS PLAN TO BE UTILIZED FOR SITE
SOIL AND EROSION CONTROL
PURPOSES ONLY**

**NEW ENGLAND CONSERVATION/WILDLIFE
SEED MIX SHALL BE INSTALLED WITHIN
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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 WATTLES
AND SILT FENCE UNLESS OTHERWISE
NOTED. SEE DETAILS FOR MORE
INFORMATION.**

**WETLAND BOUNDARIES AND
RESTORATION AREAS SHALL BE
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COMPOST WATTLES.**



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1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL
2	02/16/2024	PER TOWN COMMENTS	SMK

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DRAWN BY: CMC / OCR
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CAD ID: W201257.02-EROS-2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
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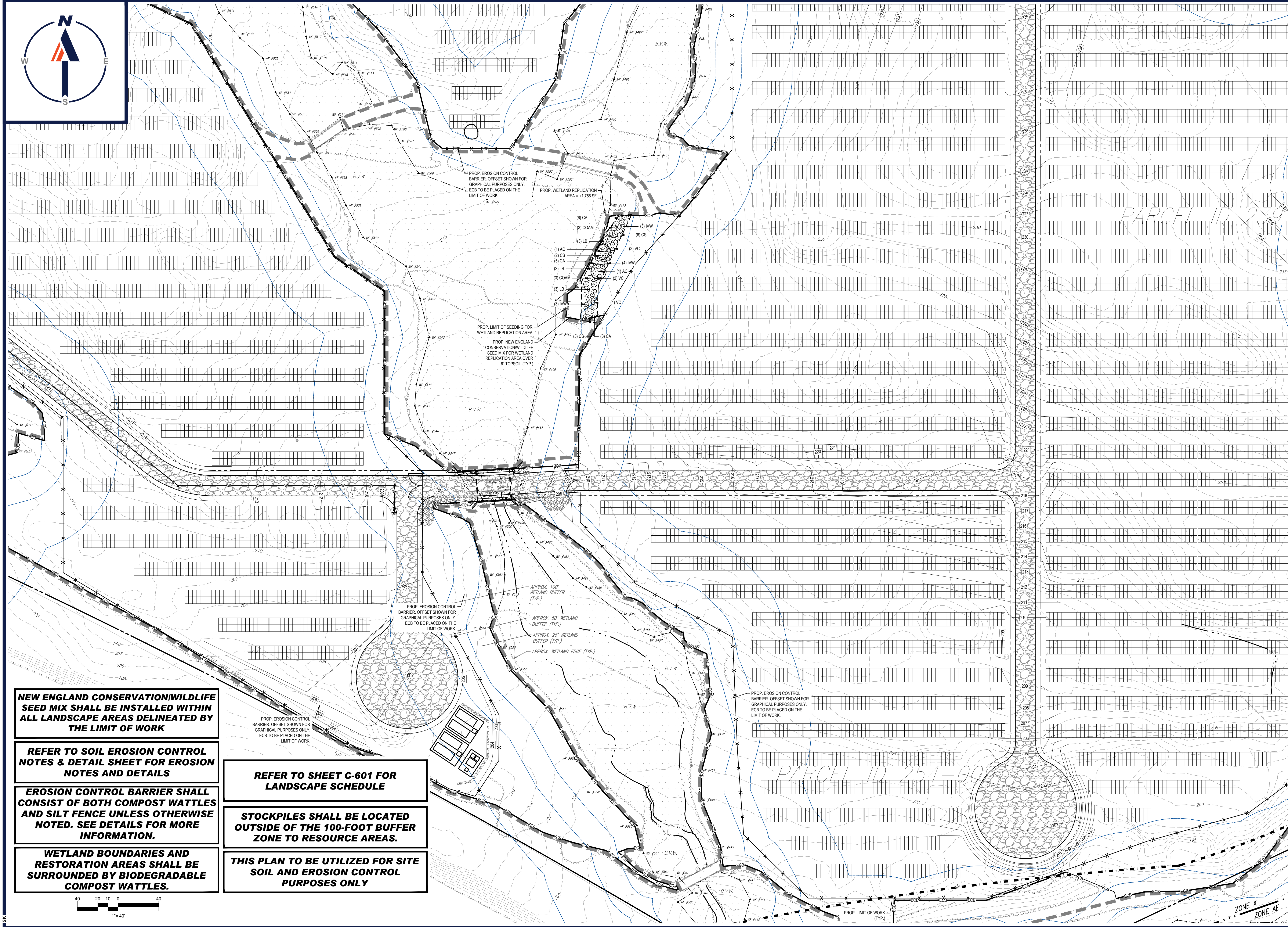


EROSION & SEDIMENT CONTROL PLAN D

SHEET NUMBER:
C-605

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MA\PROJECTS\2023\2372\2372-CAD\DRAWINGS\PLAN BETS\CIVIL SITE PLAN\W201257.02-EROS-2A-PLAN.DWG: C-605-EROS.D



NEW ENGLAND CONSERVATION WILDLIFE 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

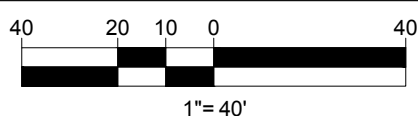
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WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.

REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE

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



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REVISIONS

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2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.:	W201257
DRAWN BY:	CMC / OCR
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PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC

PROPOSED
SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
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BOHLER

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SOUTHBOROUGH, MA 01772
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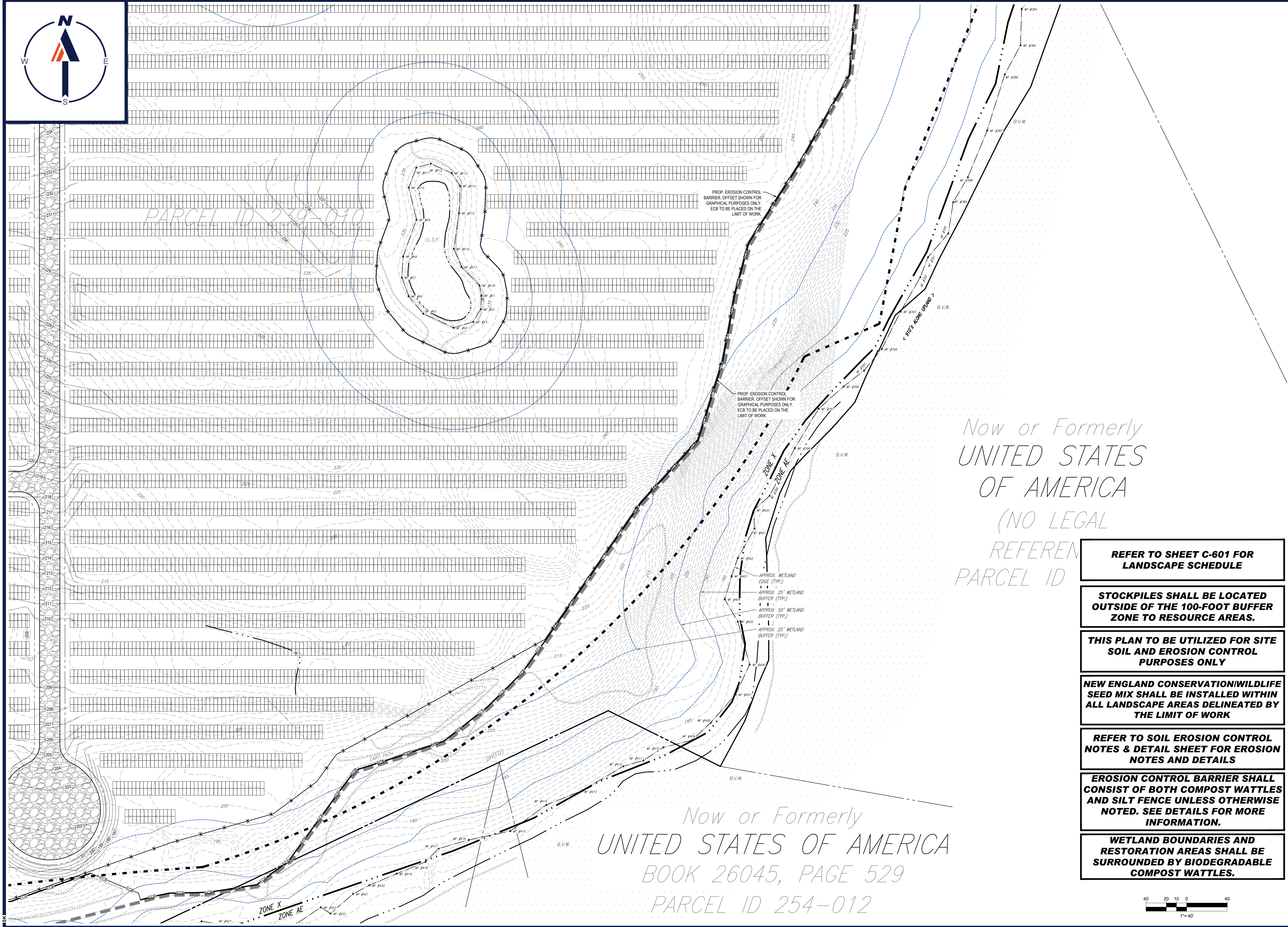


EROSION & SEDIMENT CONTROL PLAN E

SHEET NUMBER:
C-606

REVISION 2 - 02/16/2024

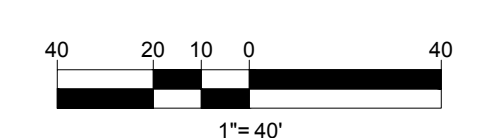
I:\BOHLER\NET\SHARES\MAP\PROJECTS\2023\02\EROS-2A\23-02-EROS-2A-LAYOUT-C-606-EROS.E



Now or Formerly
UNITED STATES
OF AMERICA
(NO LEGAL
REFEREN
PARCEL ID

Now or Formerly
UNITED STATES OF AMERICA
BOOK 26045, PAGE 529
PARCEL ID 254-012

- REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE**
- 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**
- NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX SHALL BE INSTALLED WITHIN ALL LANDSCAPE AREAS DELINEATED BY THE LIMIT OF WORK**
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- EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**
- WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.**



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2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.:	W201257
DRAWN BY:	CMC / OCR
CHECKED BY:	GD
DATE:	07/20/2023
CAD ID:	W201257.02-EROS-2A

PROJECT:
PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC
PROPOSED
SOLAR FARM - SOUTH
LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
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SHEET TITLE:
EROSION & SEDIMENT CONTROL PLAN F

SHEET NUMBER:
C-607

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MAPLE\PROJECTS\2023\232\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\W201257.02-EROS-2A-LAYOUT.CAD:607.EROS.F

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 PERIOD...
3. SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE...
4. INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF...
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS...
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1)...
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST...
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST...
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...

- 11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED...
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) 100 POUNDS. Includes rows for Windy Area, Moderate to High Velocity Areas, and Greater than 3:1 slopes.

* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.

* MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK...

- 15. PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION...
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"...
16. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS...
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...

- 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...

- 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 WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
24. AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED 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.

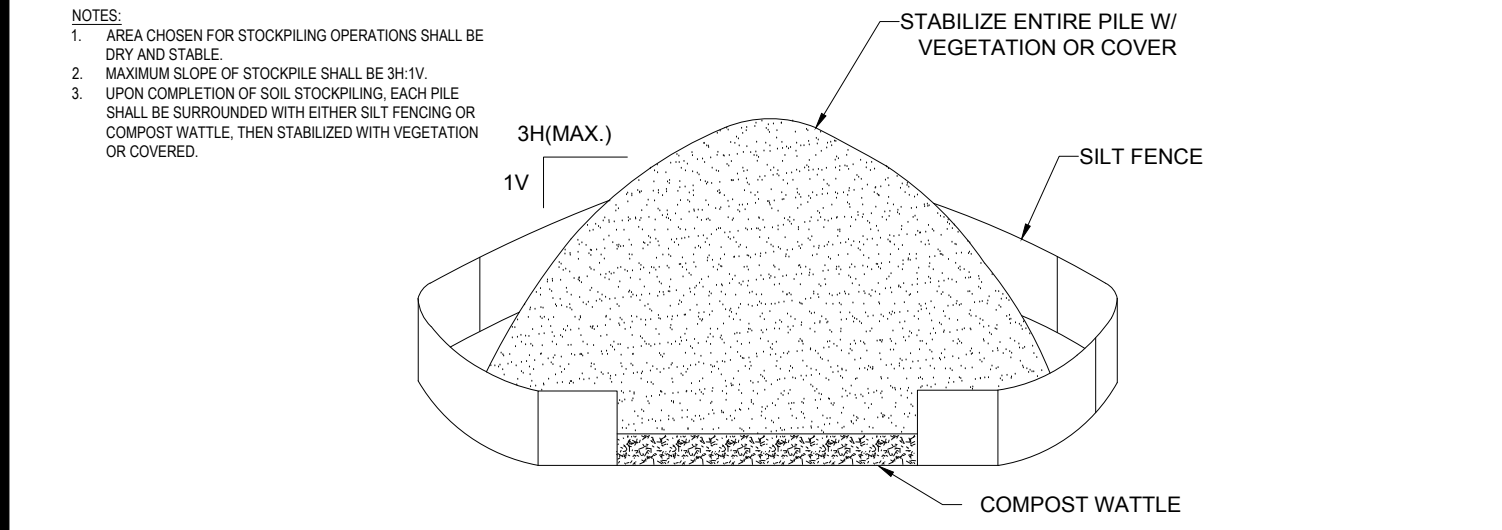
- 25. FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDING. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL 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 WASTE HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER...

- 26. MULCHING REQUIREMENTS:
26.1. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
26.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
26.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.

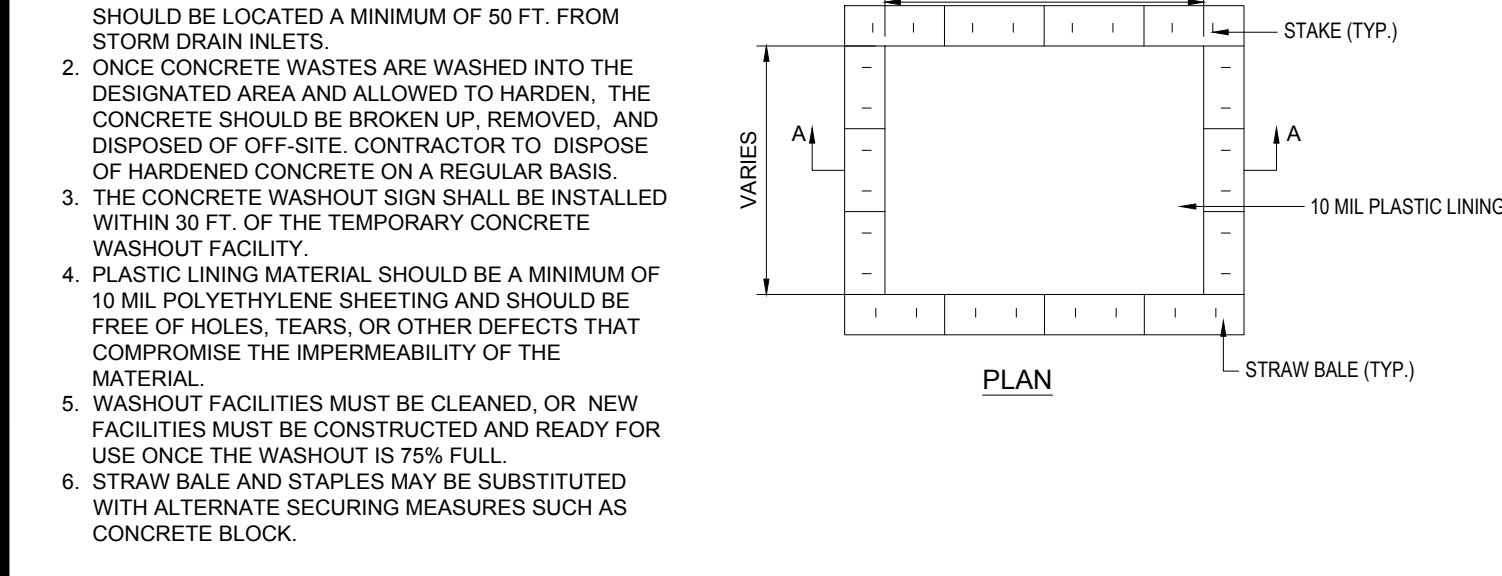
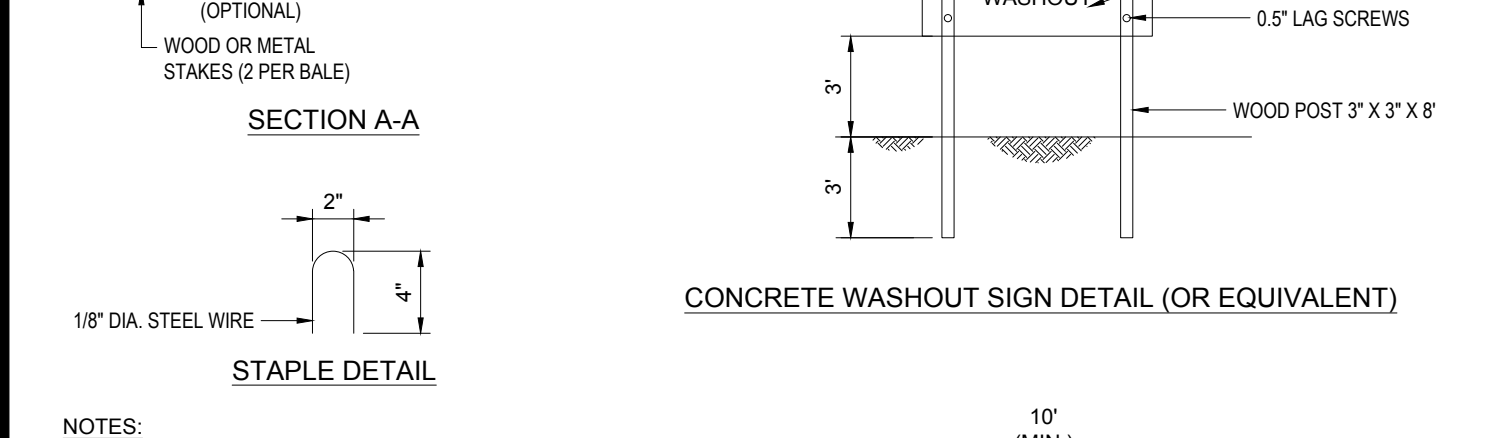
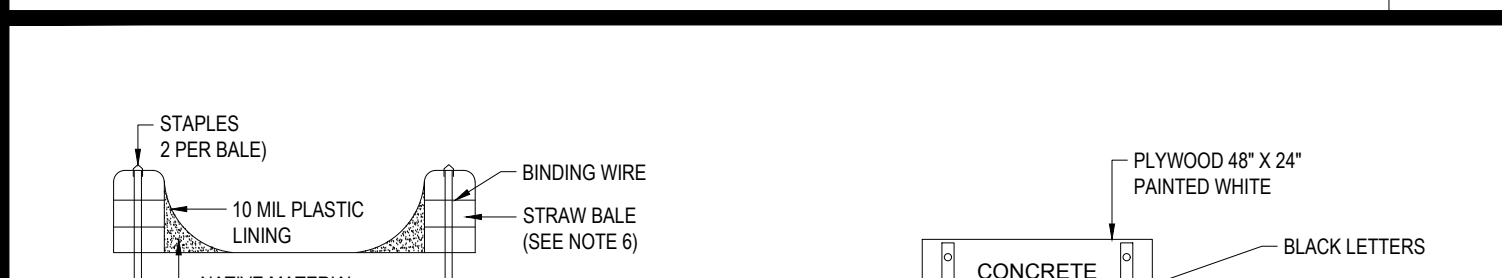
- 27. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
28. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

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. SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
4.2. 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 DOWNSLOPE 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 HEIGHT OF THE EROSION CONTROL BARRIER 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 BROUGHT 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 REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN 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, SPECIFIED METHOD OF STABILIZATION.
12. THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION CONTROL 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-LADEN 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 PLAN) 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.



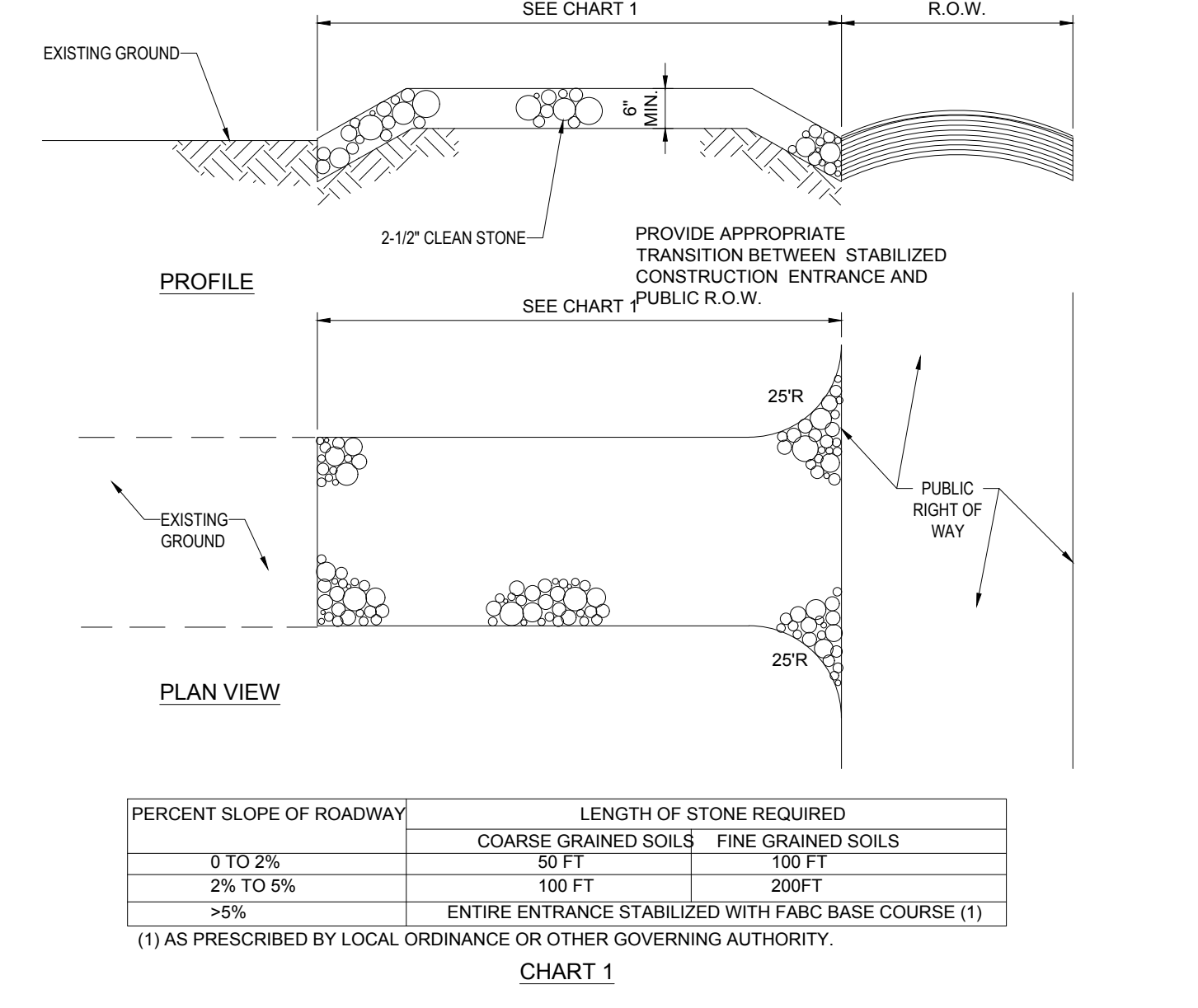
TEMPORARY STOCKPILE



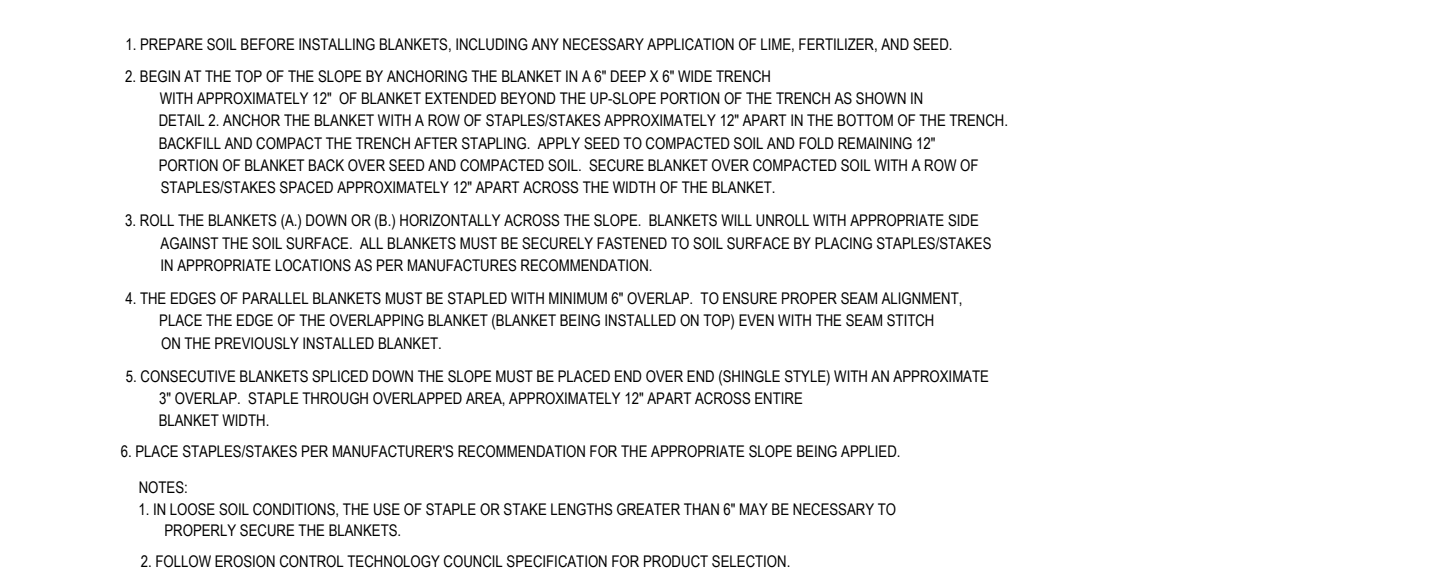
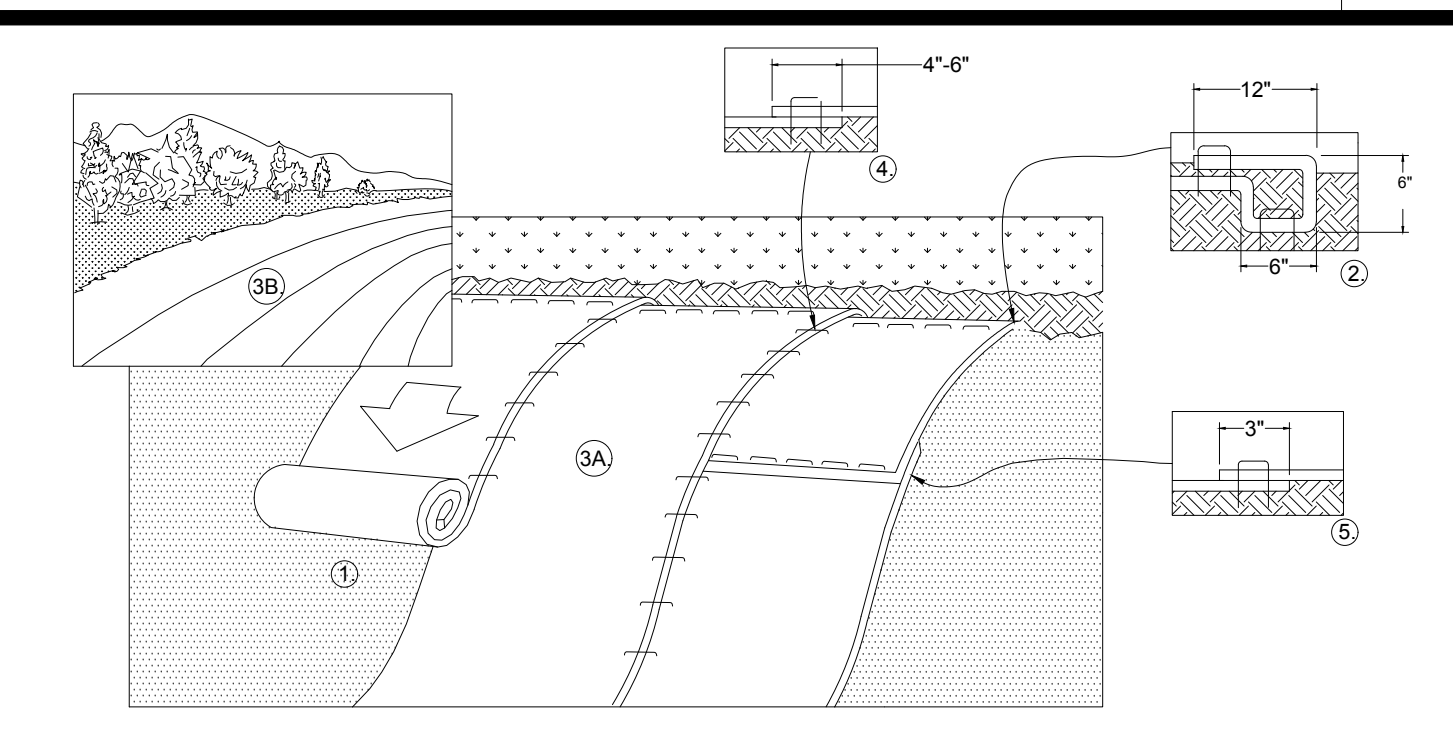
CONCRETE WASTE MANAGEMENT AREA

- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
-INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
-INSTALLATION OF EROSION CONTROL BARRIER (COMPOST WATTLE 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
-STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
-INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
-CONSTRUCTION OF ALL CURBING AS INDICATED ON THE PLANS
-SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
-FINAL GRADING OF ALL SLOPED AREAS
-PLACE 6\"/>

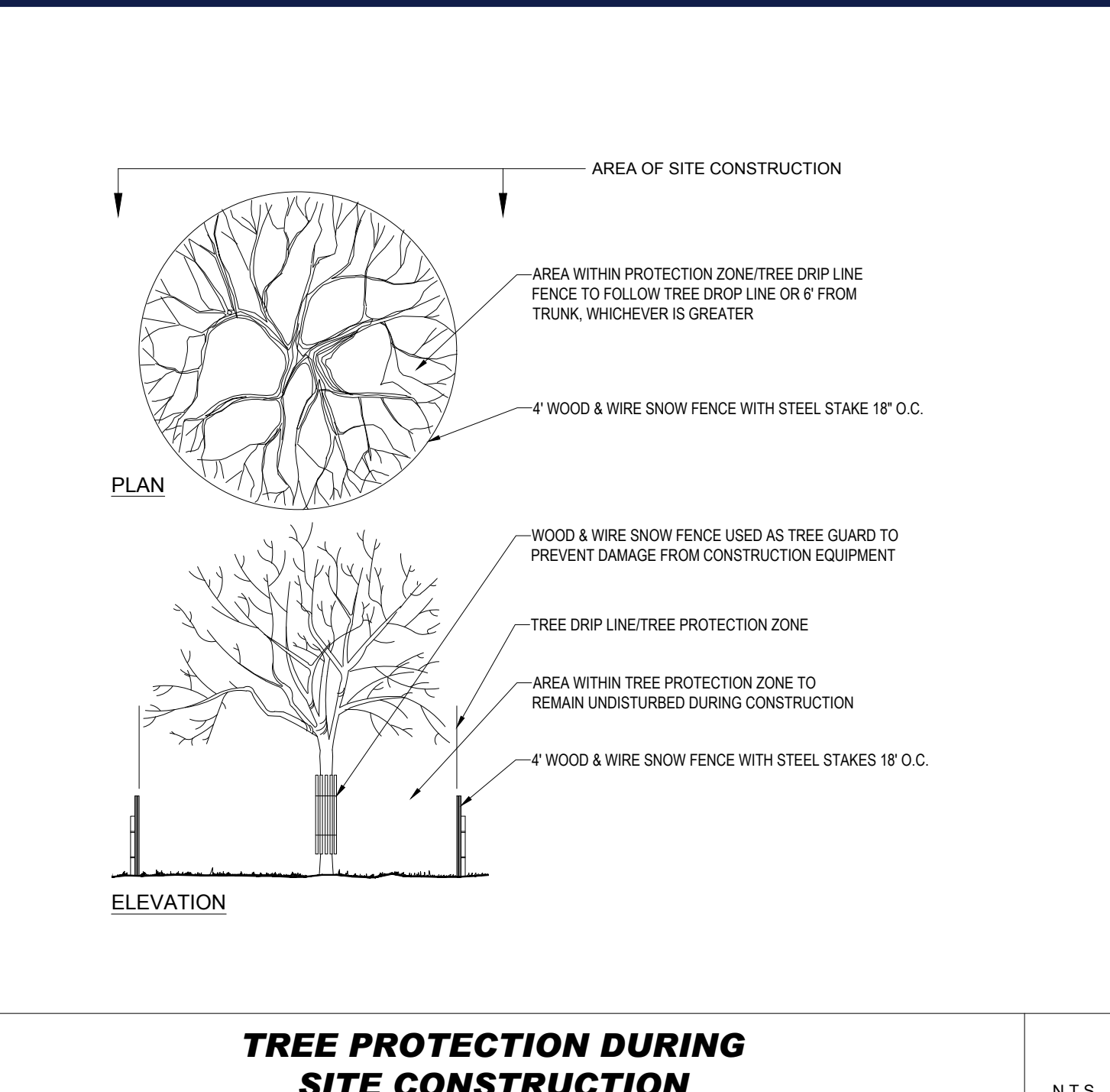
RECOMMENDED CONSTRUCTION SEQUENCE



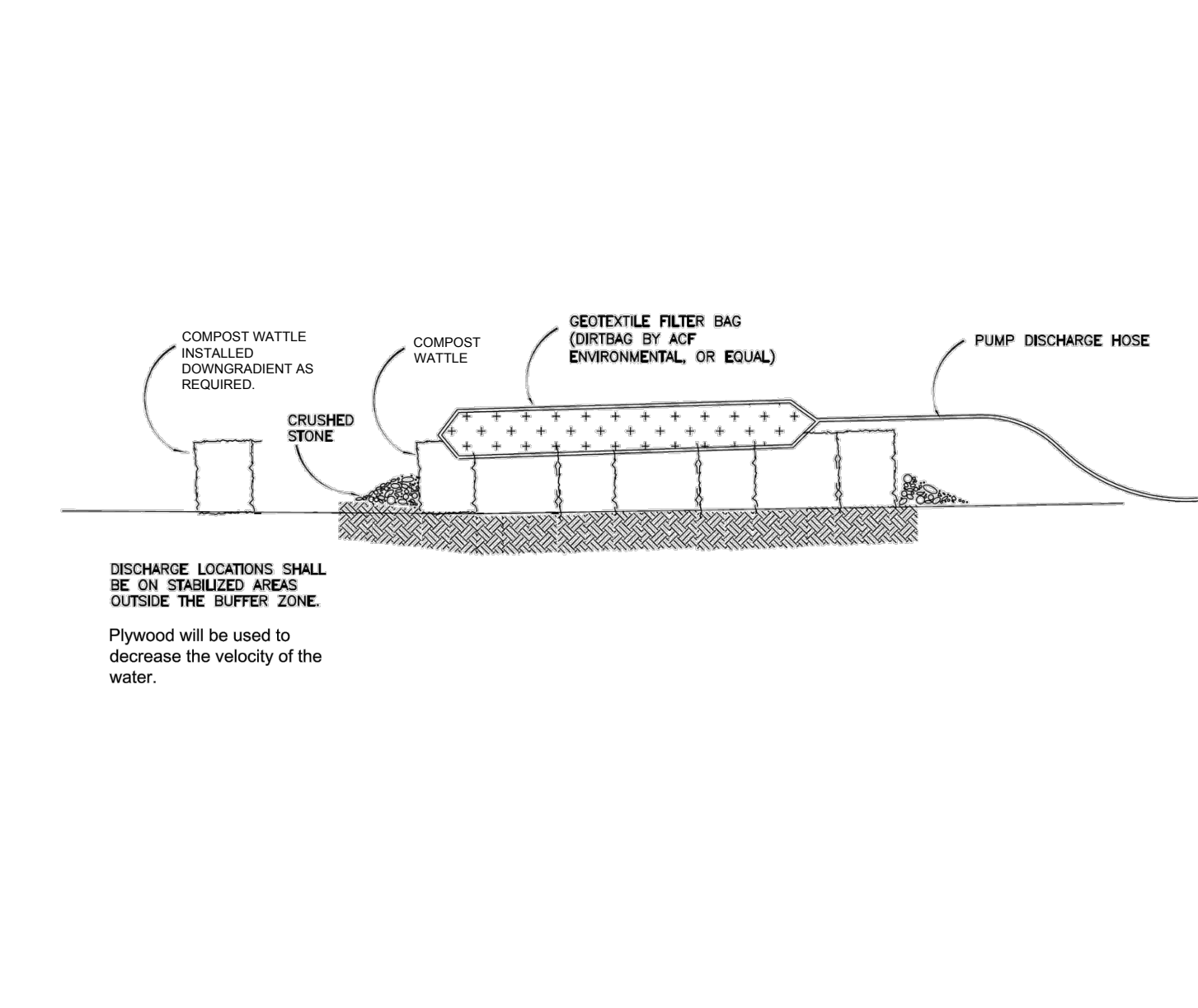
STABILIZED CONSTRUCTION ENTRANCE



EROSION CONTROL BLANKET 2:1 SLOPES (SLOPE INSTALLATION)



TREE PROTECTION DURING SITE CONSTRUCTION



DEWATERING GEOTEXTILE FILTER BAG DETAIL

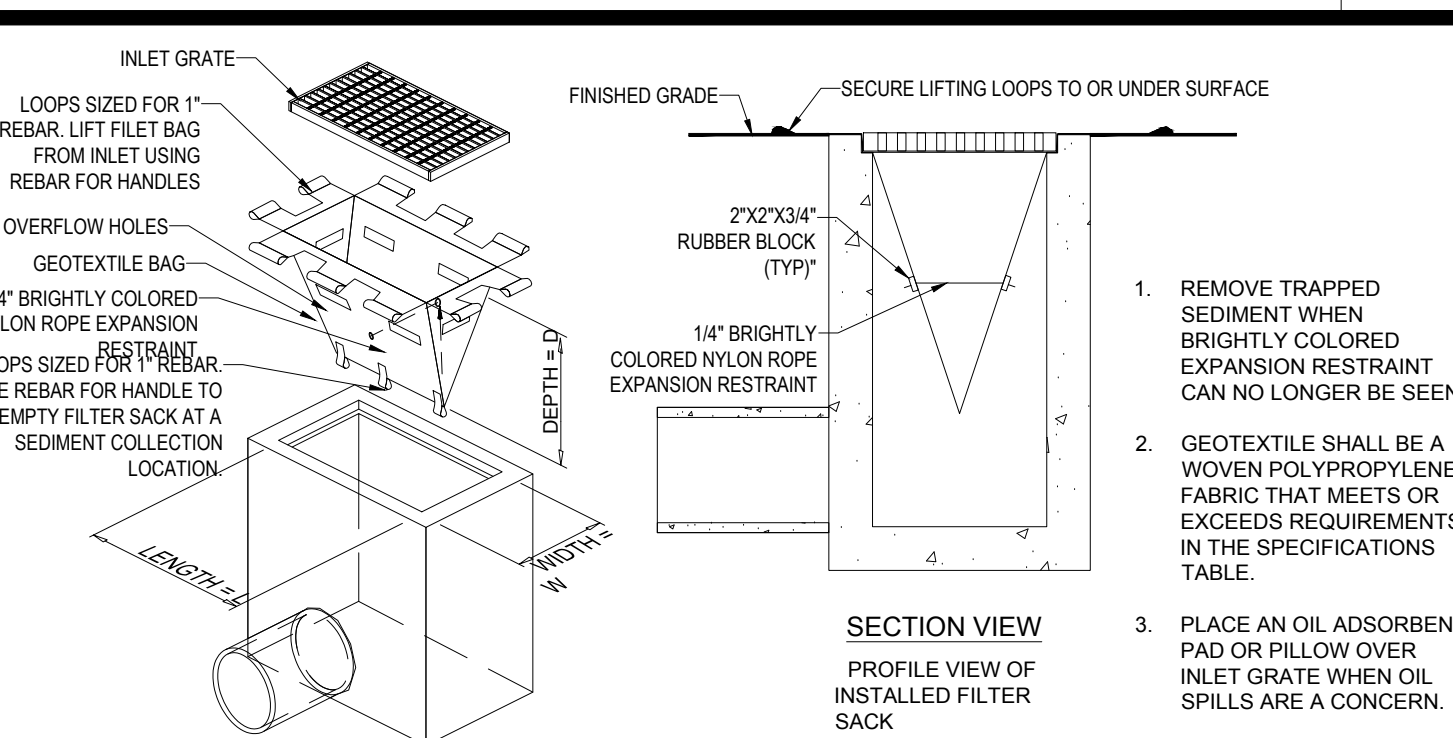


Table with 2 columns: PROPERTIES, TEST METHOD. Includes rows for Grab Tensile Strength, Puncture, Mullen Burst, Trapezoid Tear, UV Resistance, Apparent Opening Size, Flow Rate, Permittivity, and Grab Tensile Elongation for both Low to Moderate and Moderate to High Flow Geotextile Fabric.

FILTER SACS (GRADED INLETS)

BOHLER logo and contact information: BOHLER ENGINEERING, PROGRAM MANAGEMENT, LANDSCAPE ARCHITECTURE, SUSTAINABLE DESIGN, PERMITTING SERVICES, TRANSPORTATION SERVICES.

Table with 5 columns: REV, DATE, COMMENT, CHECKED BY, DRAWN BY. Includes revision 1 on 10/04/2023 and revision 2 on 02/16/2024.

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ISSUED FOR MUNICIPAL & AGENCY REVIEW & APPROVAL

PROJECT No.: W201257 CMC / OCR
DRAWN BY: JDL
DATE: 07/20/2023
CAD LID.: W201257.02-EROSION-GA

PROPOSED SITE PLAN DOCUMENTS

FOR MAPLE STREET SOLAR LLC

PROPOSED SOLAR FARM - SOUTH
LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-011, & 32-0009
160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

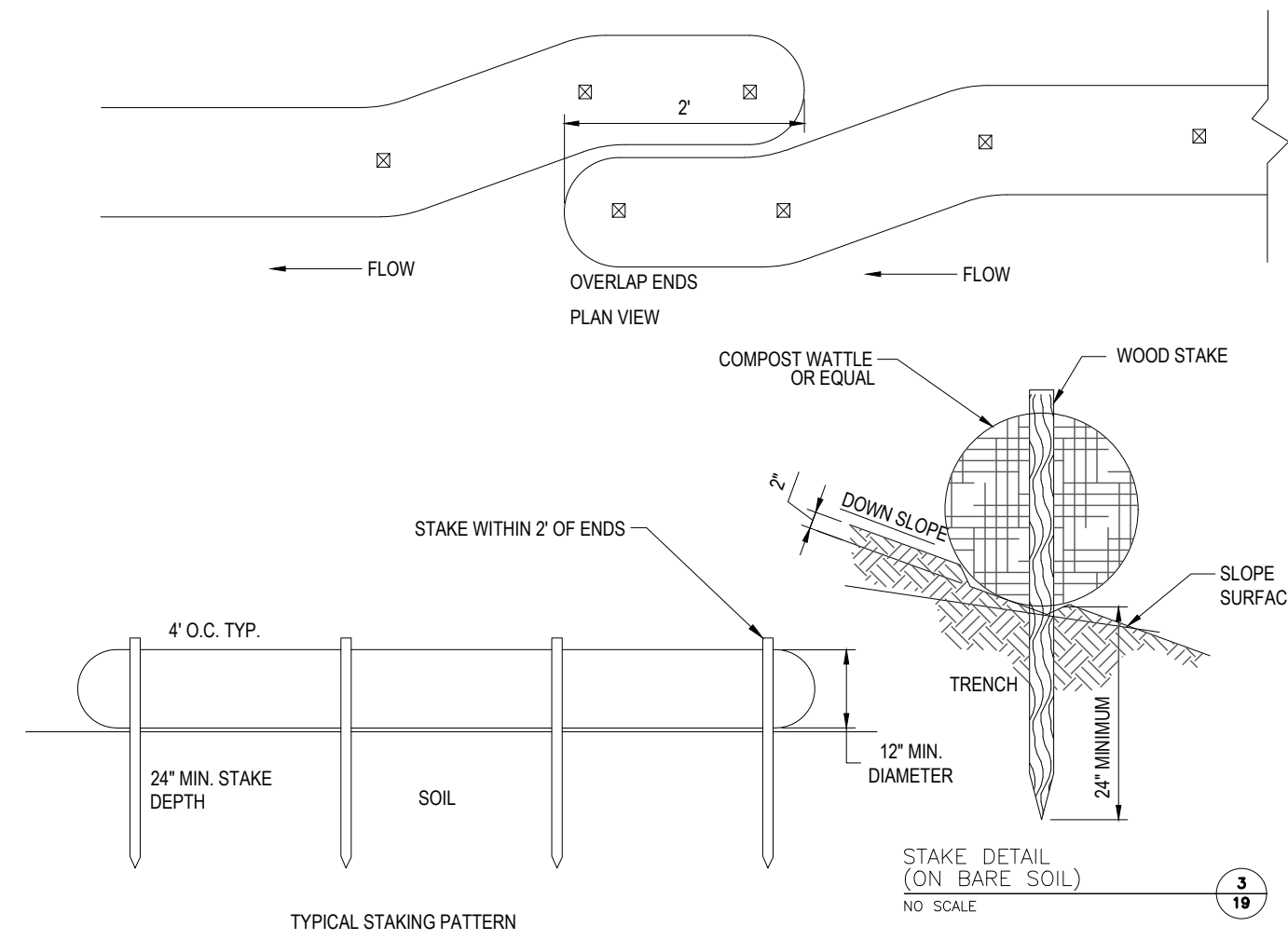
BOHLER logo and address: 352 TURNPIKE ROAD, SOUTHBOROUGH, MA 01772. Phone: (508) 480-9900. Website: www.BohlerEngineering.com

Professional Engineer Seal for John A. Bohler, State of Massachusetts, License No. 14530.

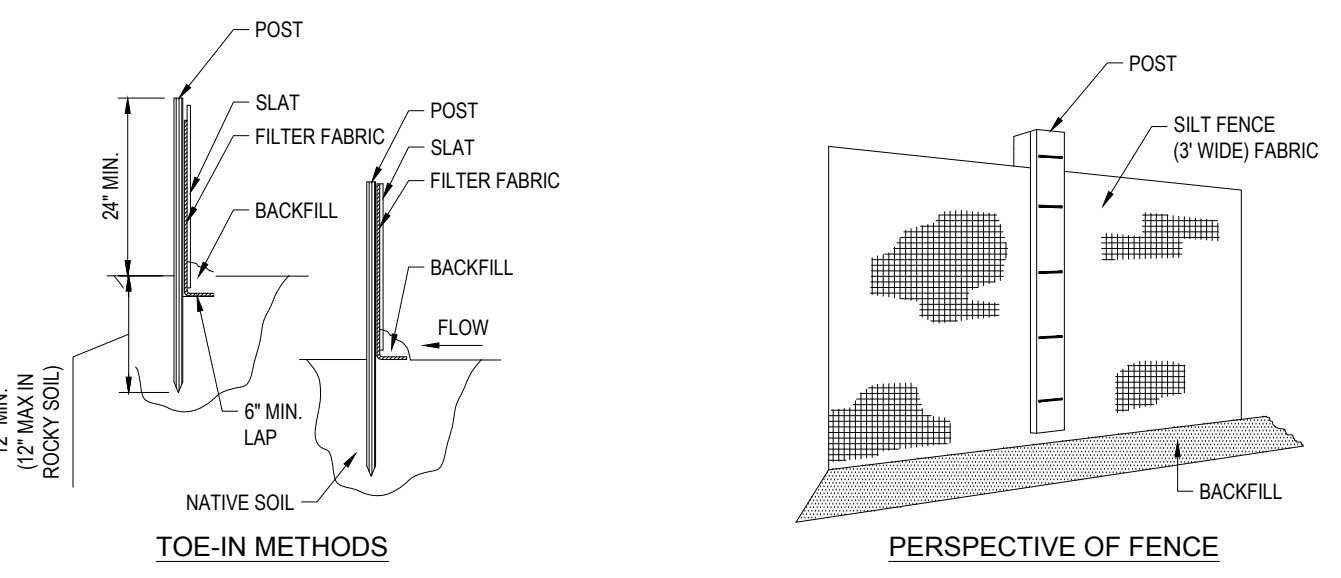
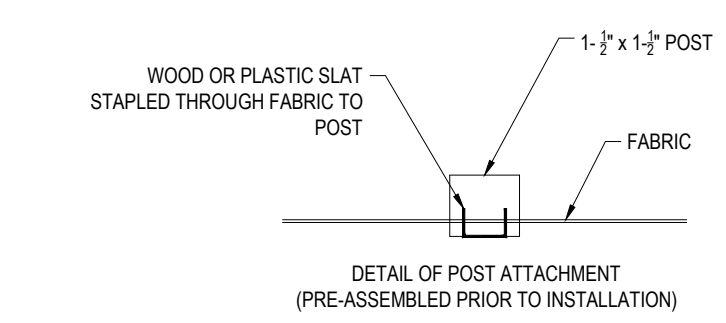
SHEET TITLE: EROSION & SEDIMENT CONTROL NOTES & DETAILS
SHEET NUMBER: C-607
REVISION 2 - 02/16/2024

BOHLER ENGINEERING, 352 TURNPIKE ROAD, SOUTHBOROUGH, MA 01772, TEL: (508) 480-9900, WWW.BOHLERENGINEERING.COM

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



COMPOST WATTLE



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 WATTLE 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.

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

REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-EROS-2A

PROJECT:

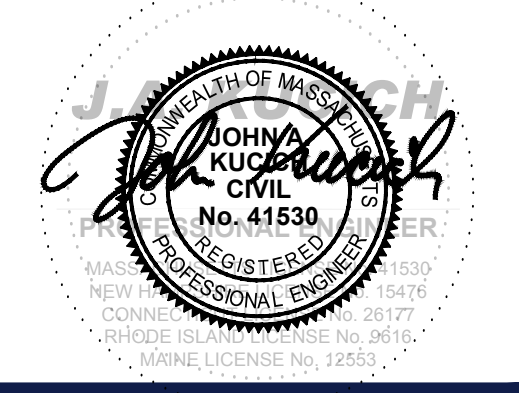
PROPOSED SITE PLAN DOCUMENTS

FOR MAPLE STREET SOLAR LLC

PROPOSED SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
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BOHLER
 352 TURNPIKE ROAD
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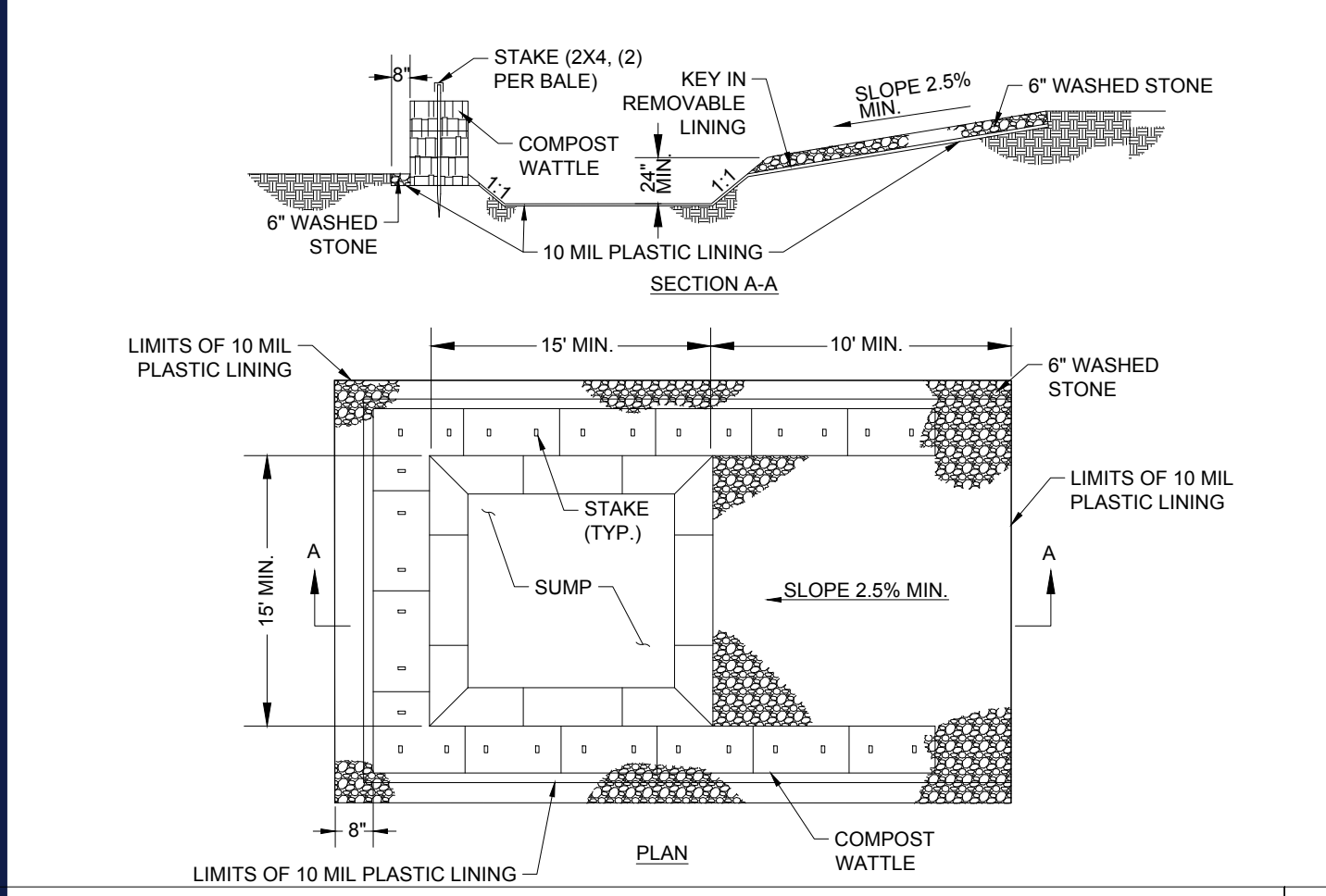
SHEET TITLE: EROSION & SEDIMENT CONTROL NOTES & DETAILS

SHEET NUMBER: C-609

REVISION 2 - 02/16/2024

I:\BOHLER\NET\SHARES\MA\PROJECTS\W201257.02\CAD\DRAWINGS\PLAN\SETS\CIVIL SITE PLAN\W201257.02-EROS-2A.dwg - LAYOUT: C-609-ENGINE

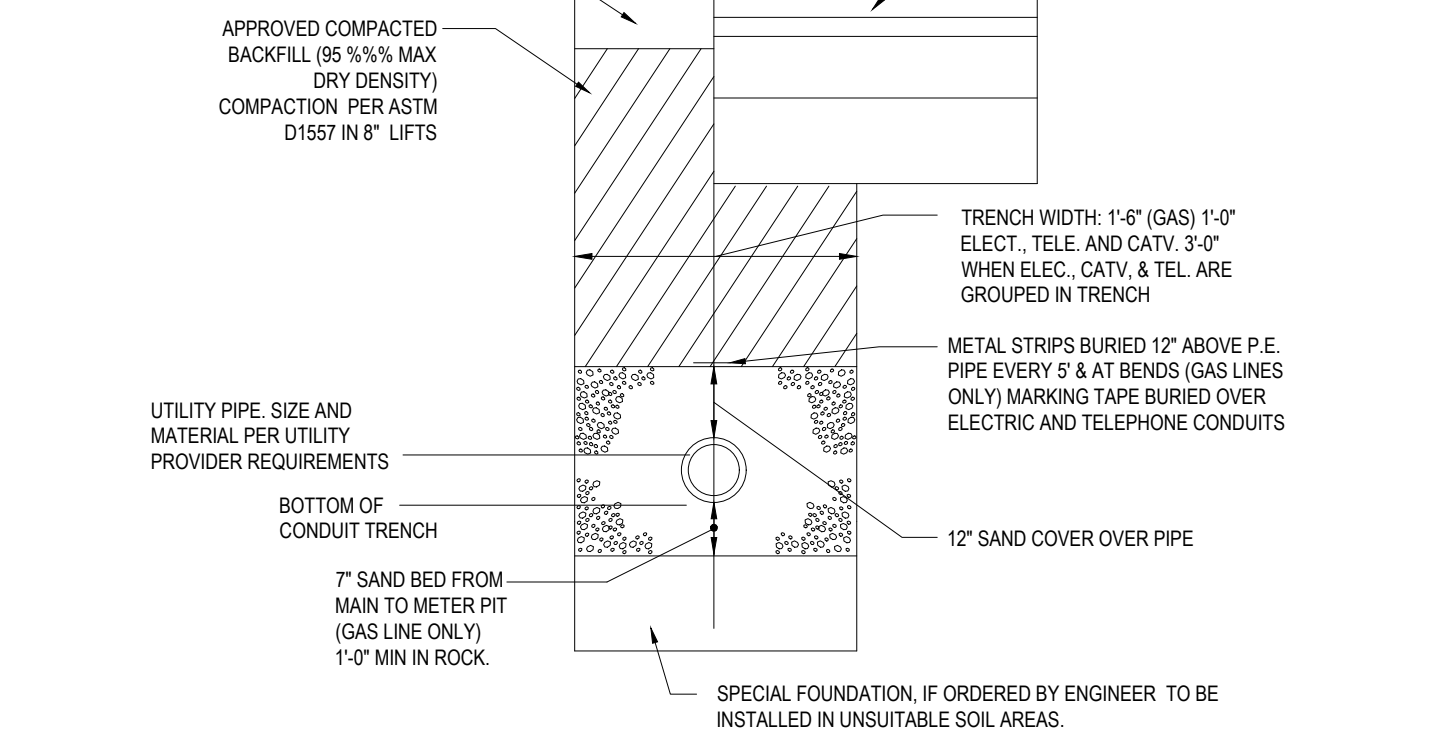
- NOTES:
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
 - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
 - SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.
 - DEBRIS FROM THE VEHICLE WASH AREA SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.



CONCRETE WASHOUT DETAIL

N.T.S.

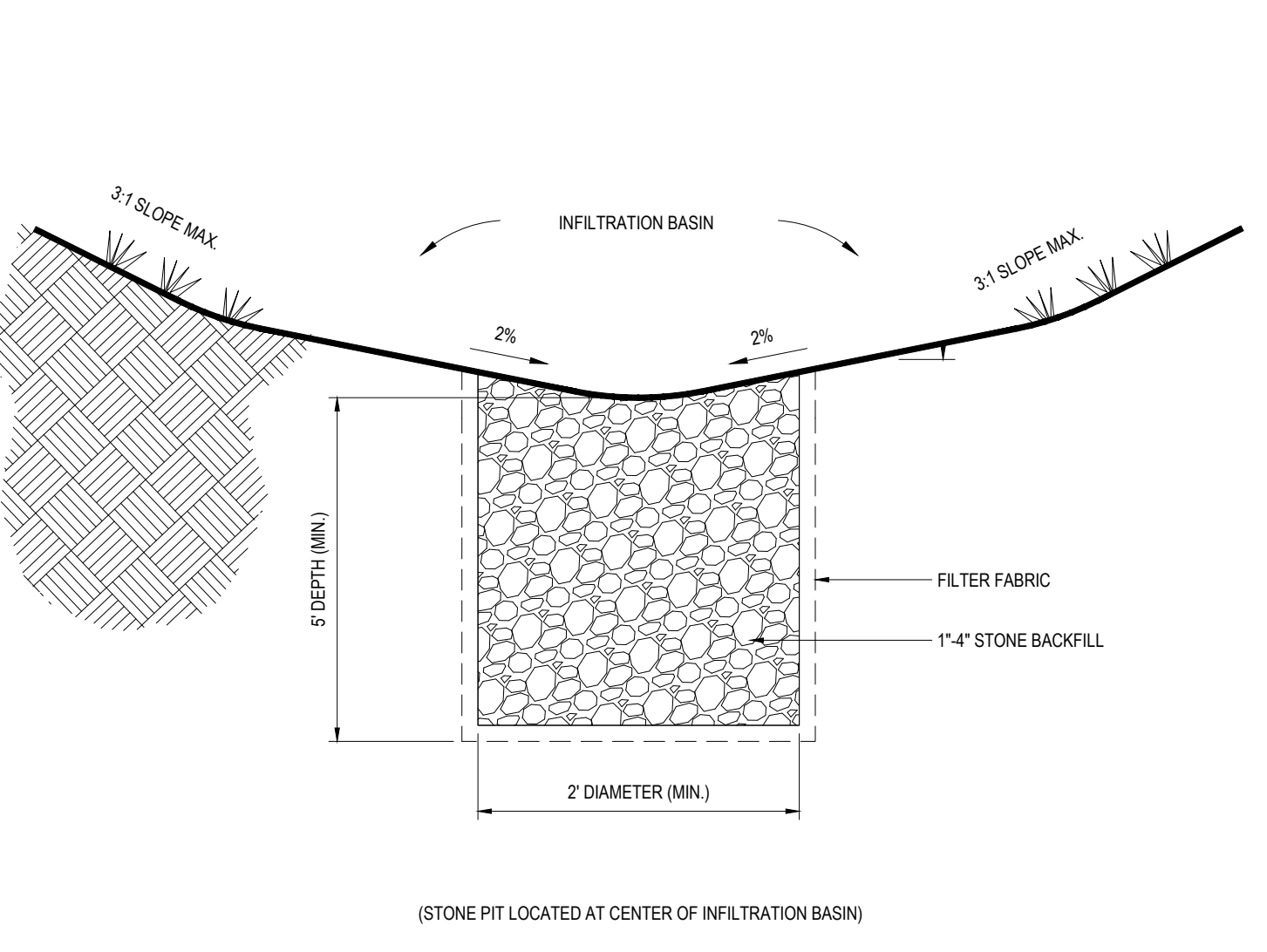
- NOTE: THE CONTRACTOR IS DIRECTED AND RESPONSIBLE TO SLOPE AND/OR SHIELD THE TRENCH EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE OSHA REGULATIONS.



NOTE: ALL PROPOSED UNDERGROUND UTILITIES THAT FALL WITHIN THE EXISTING ELECTRIC EASEMENTS SHALL BE 44SHTO HS-25 RATED.

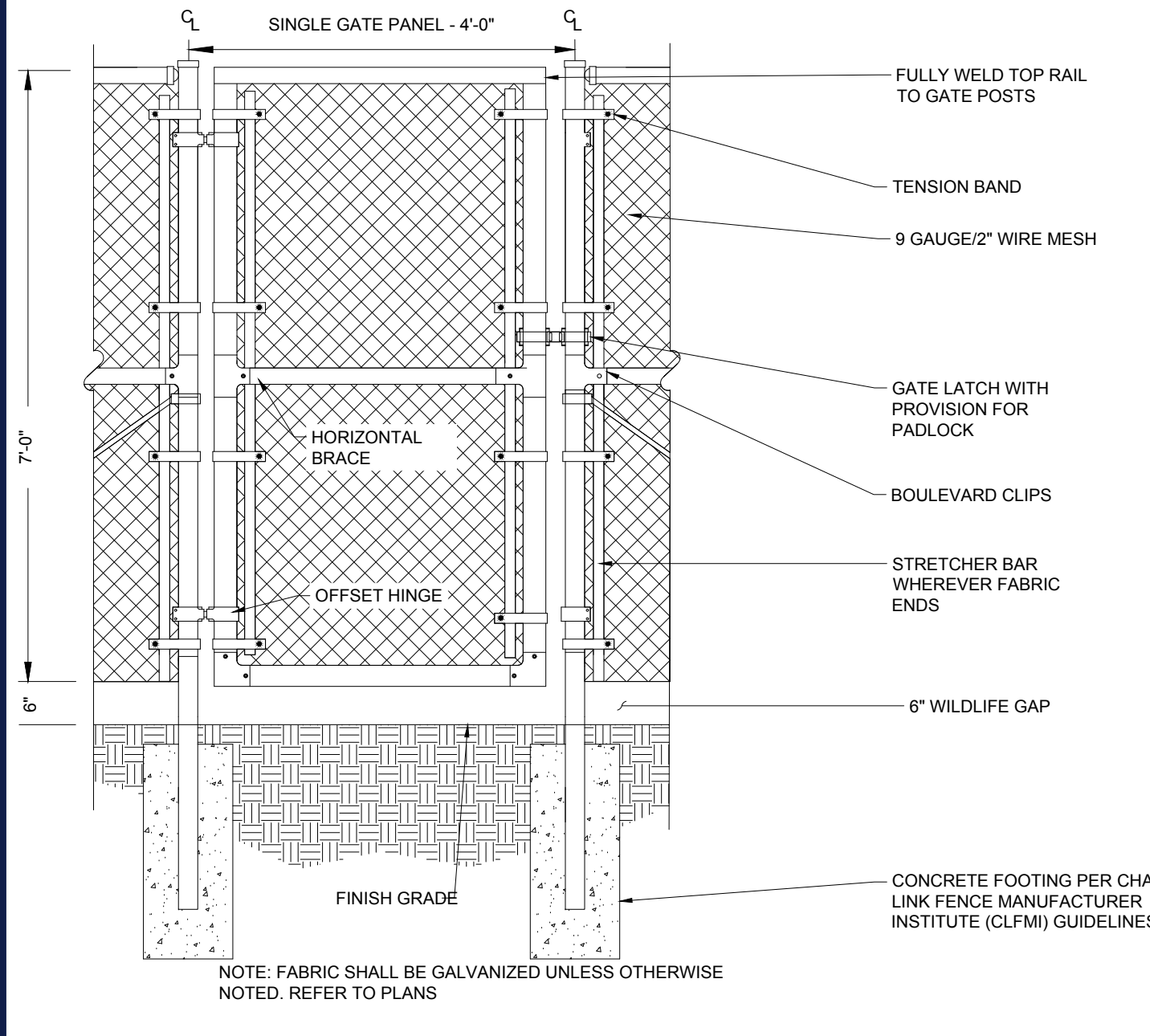
PRIMARY ELECTRICAL TRENCH DETAIL

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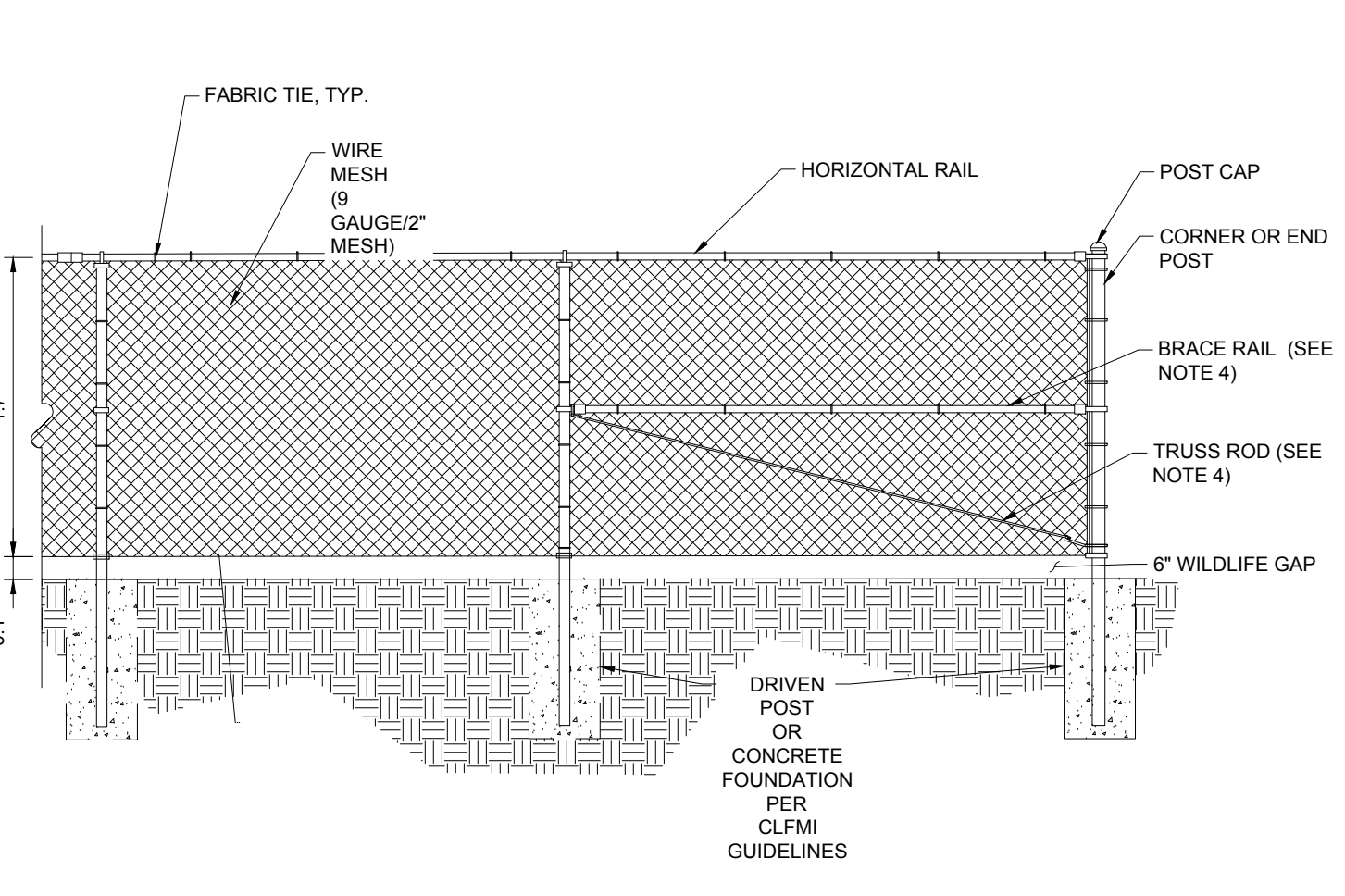
STORMWATER INFILTRATION TRENCH

NOT TO SCALE (S500.01xx_07/2022)



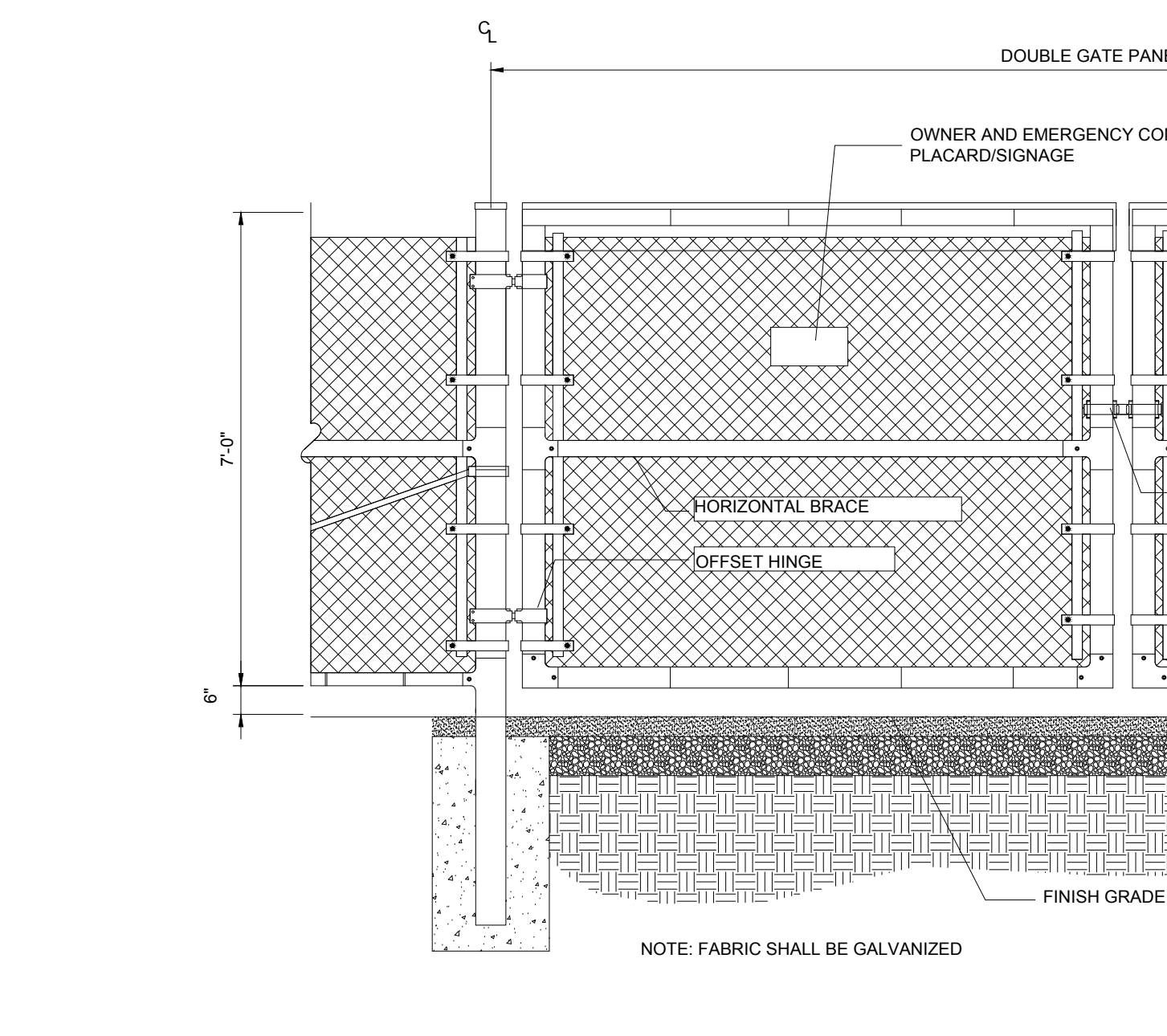
7' ACCESS GATE WITH WILDLIFE GAP

N.T.S.



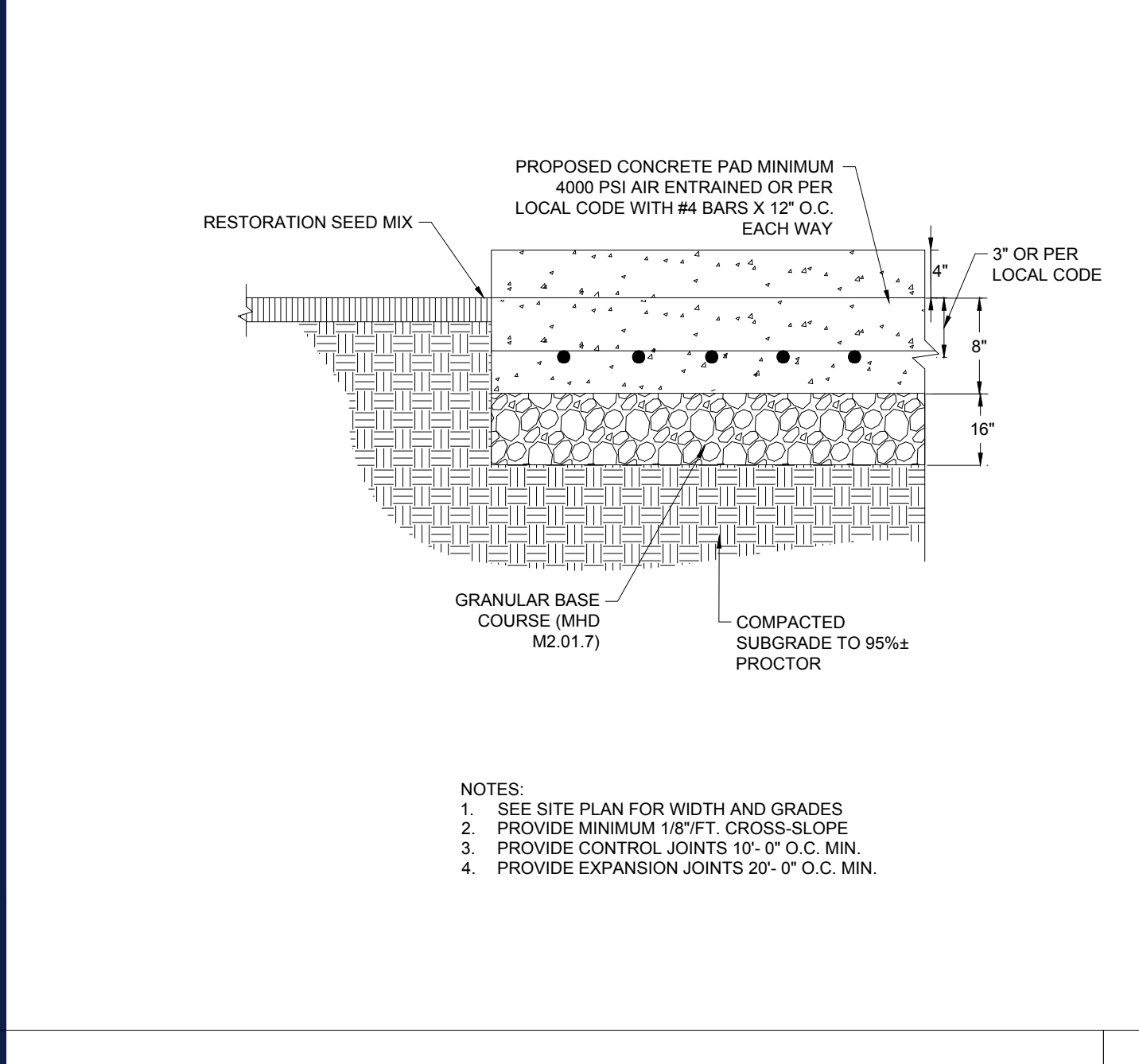
7' CHAIN LINK FENCE WITH WILDLIFE GAP

N.T.S.



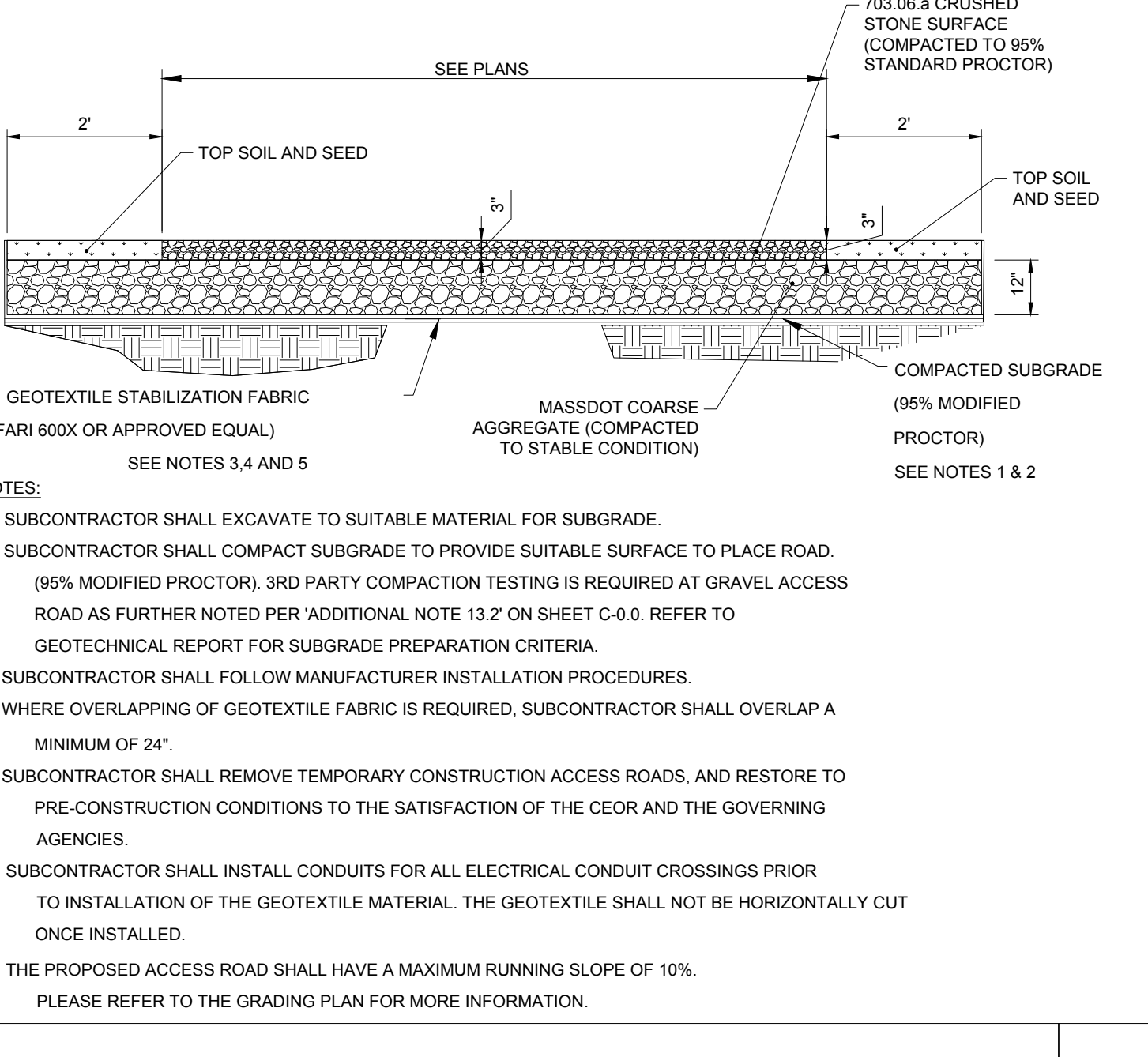
24' WIDE DOUBLE SWING GATE WITH WILDLIFE GAP

N.T.S.



CONCRETE PAD FOR EQUIPMENT

N.T.S.



ACCESS GRAVEL ROAD

N.T.S.

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

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
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2	02/16/2024	PER TOWN COMMENTS	SMK	GD

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PROJECT No.: W201257
 DRAWN BY: CMC / OCR
 CHECKED BY: GD
 DATE: 07/20/2023
 CAD ID: W201257.02-DET-2A

PROPOSED SITE PLAN DOCUMENTS

FOR
MAPLE STREET SOLAR LLC
 PROPOSED
 SOLAR FARM - SOUTH

LOTS INCLUDED (PARCEL #): 255-001, 254-001, 239-010 A, 239-010 B, 239-010 C, PORTION OF D 239-010, & 32-0009
 160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN,
 NORFOLK COUNTY, MASSACHUSETTS

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

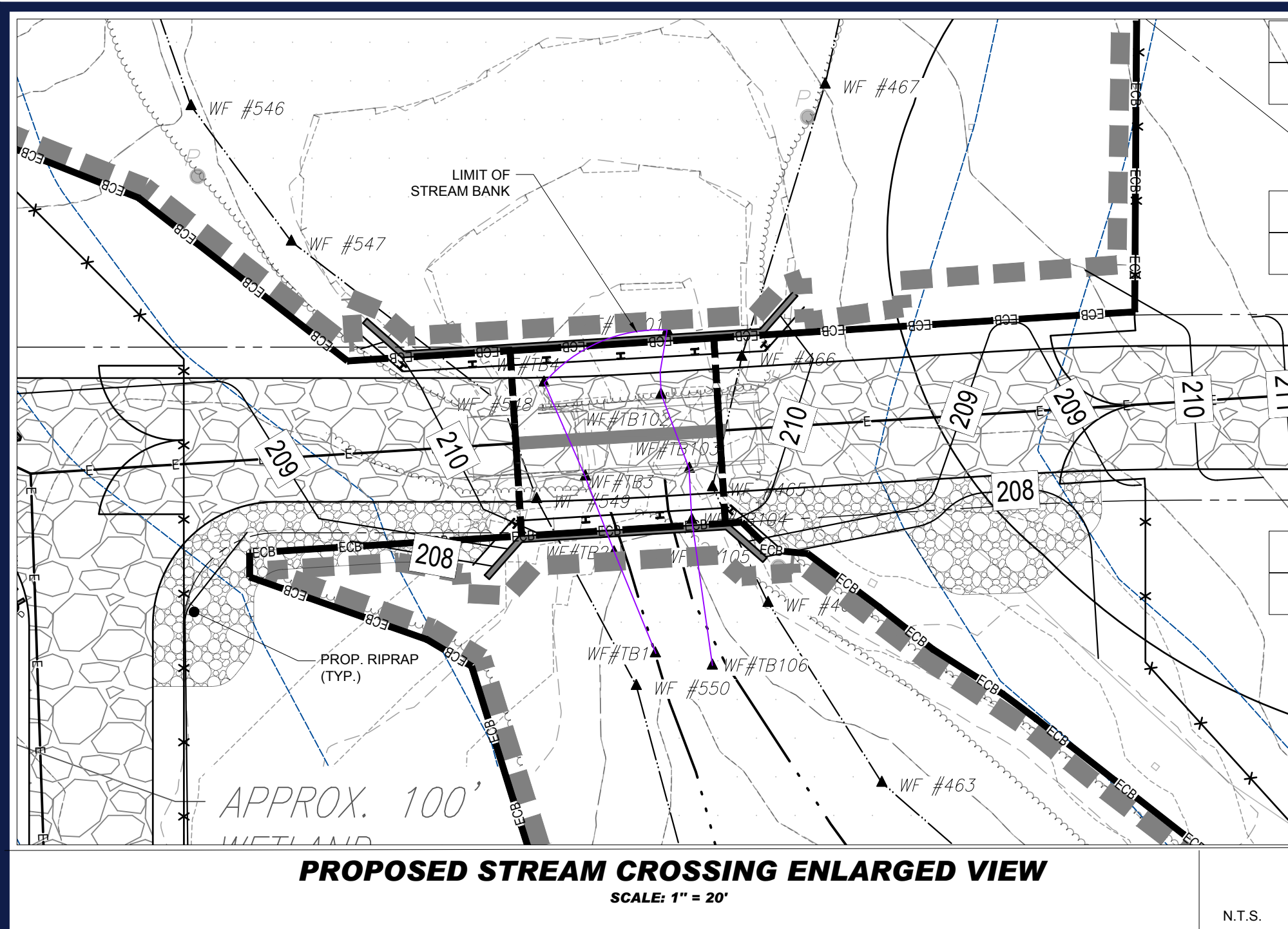
Professional Engineer Seal for John A. Bohler, No. 41530, State of Massachusetts, License No. 12553.

SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-901

REVISION 2 - 02/16/2024

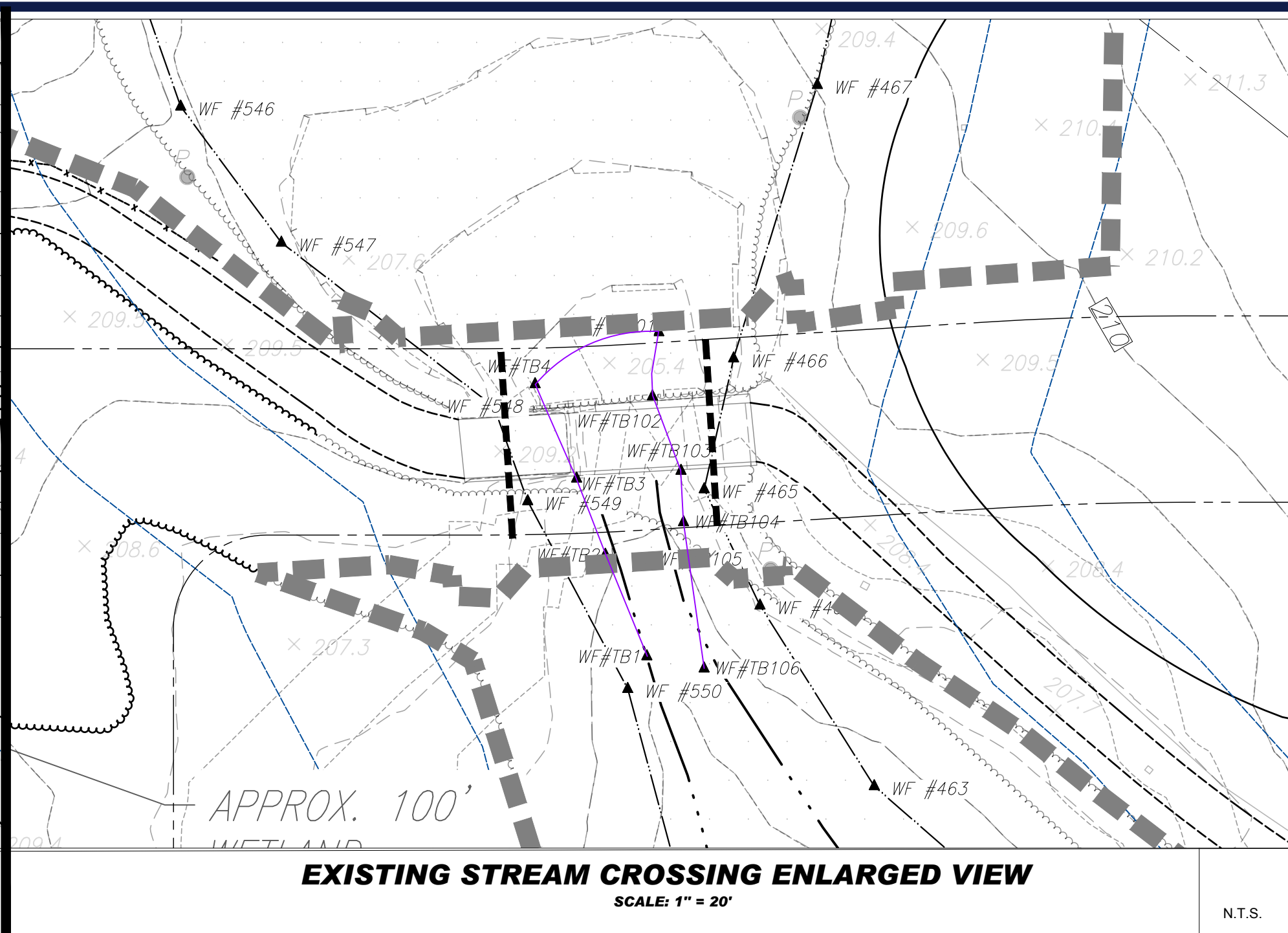
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PROPOSED STREAM CROSSING ENLARGED VIEW

SCALE: 1" = 20'

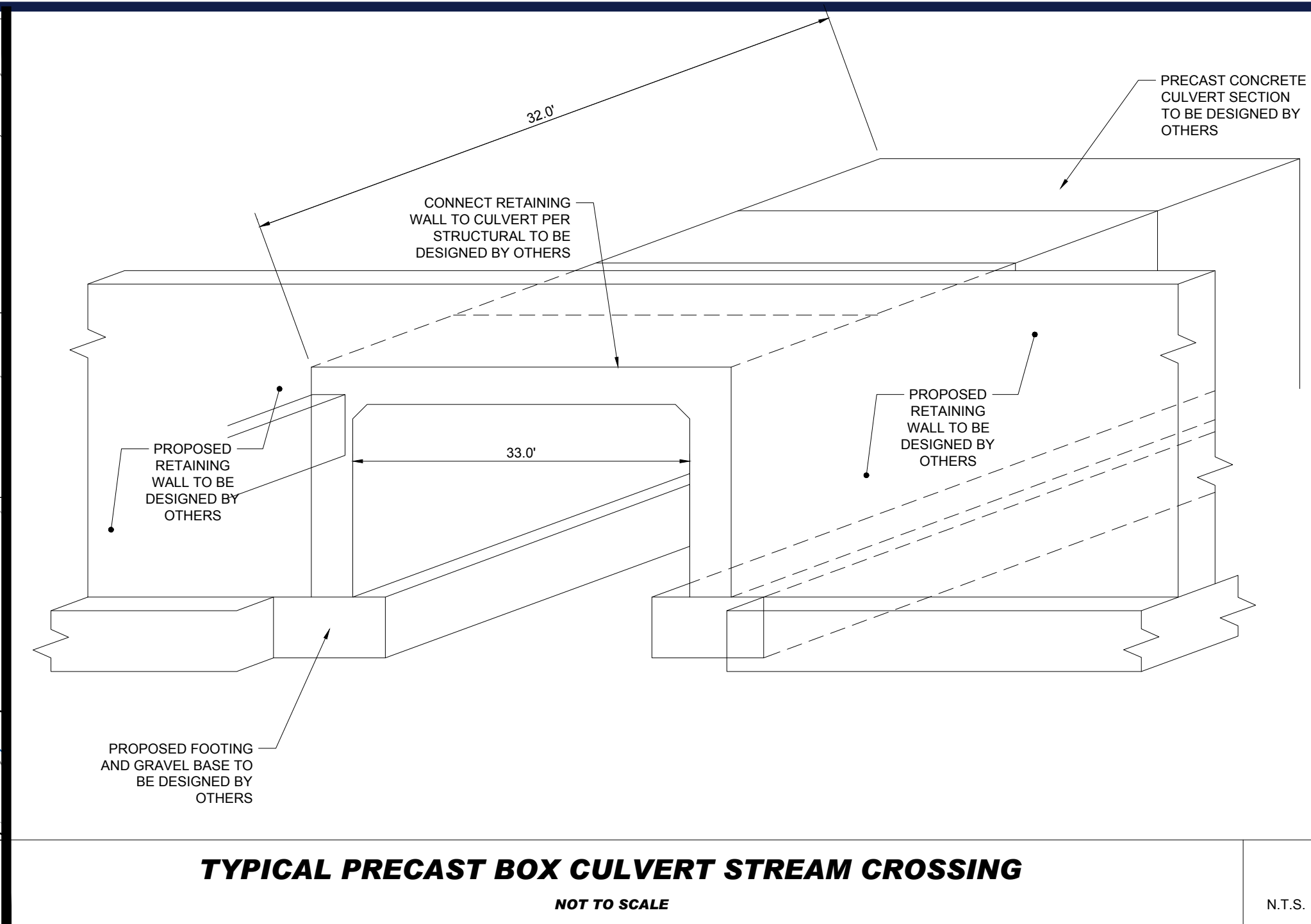
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EXISTING STREAM CROSSING ENLARGED VIEW

SCALE: 1" = 20'

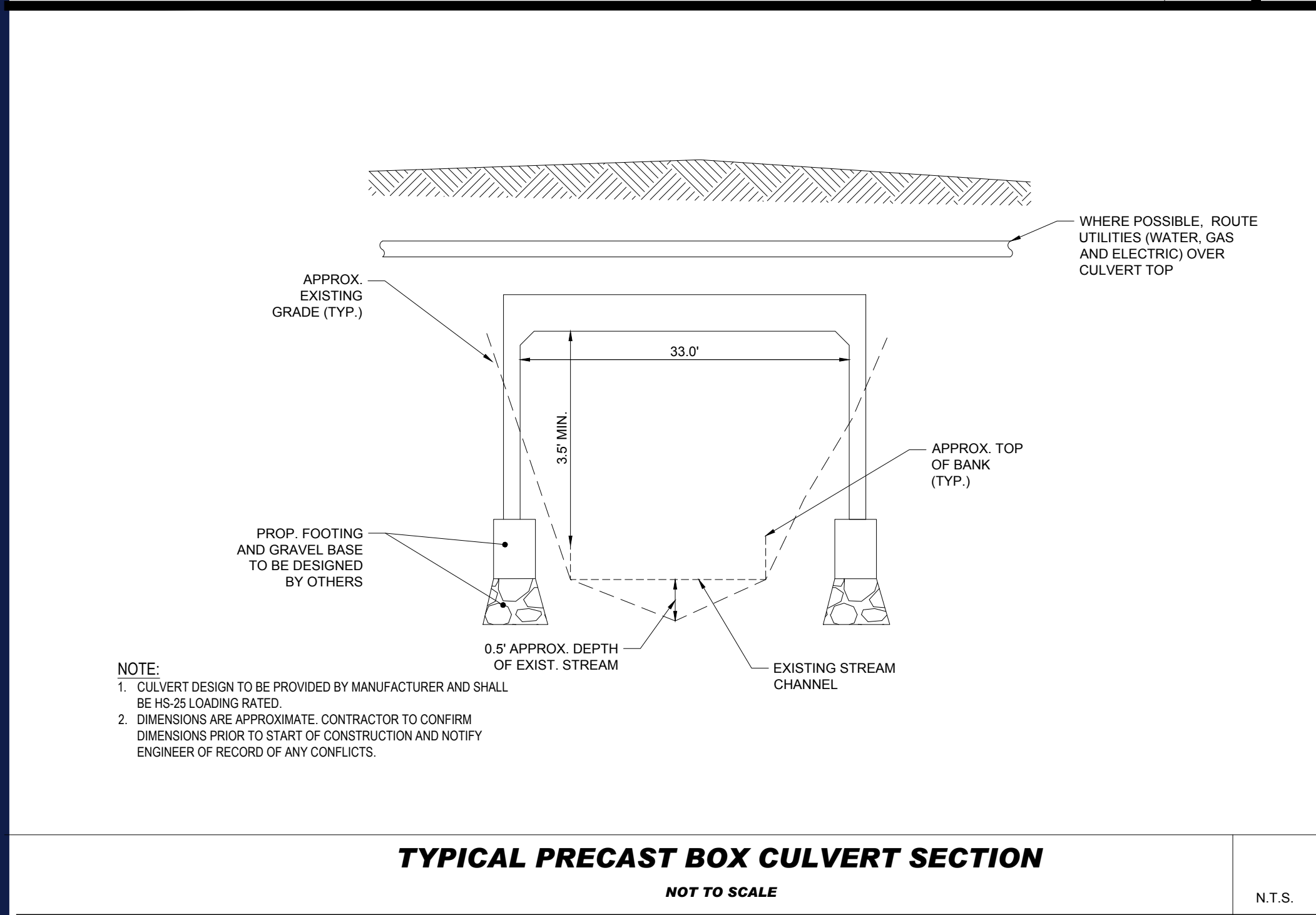
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TYPICAL PRECAST BOX CULVERT STREAM CROSSING

NOT TO SCALE

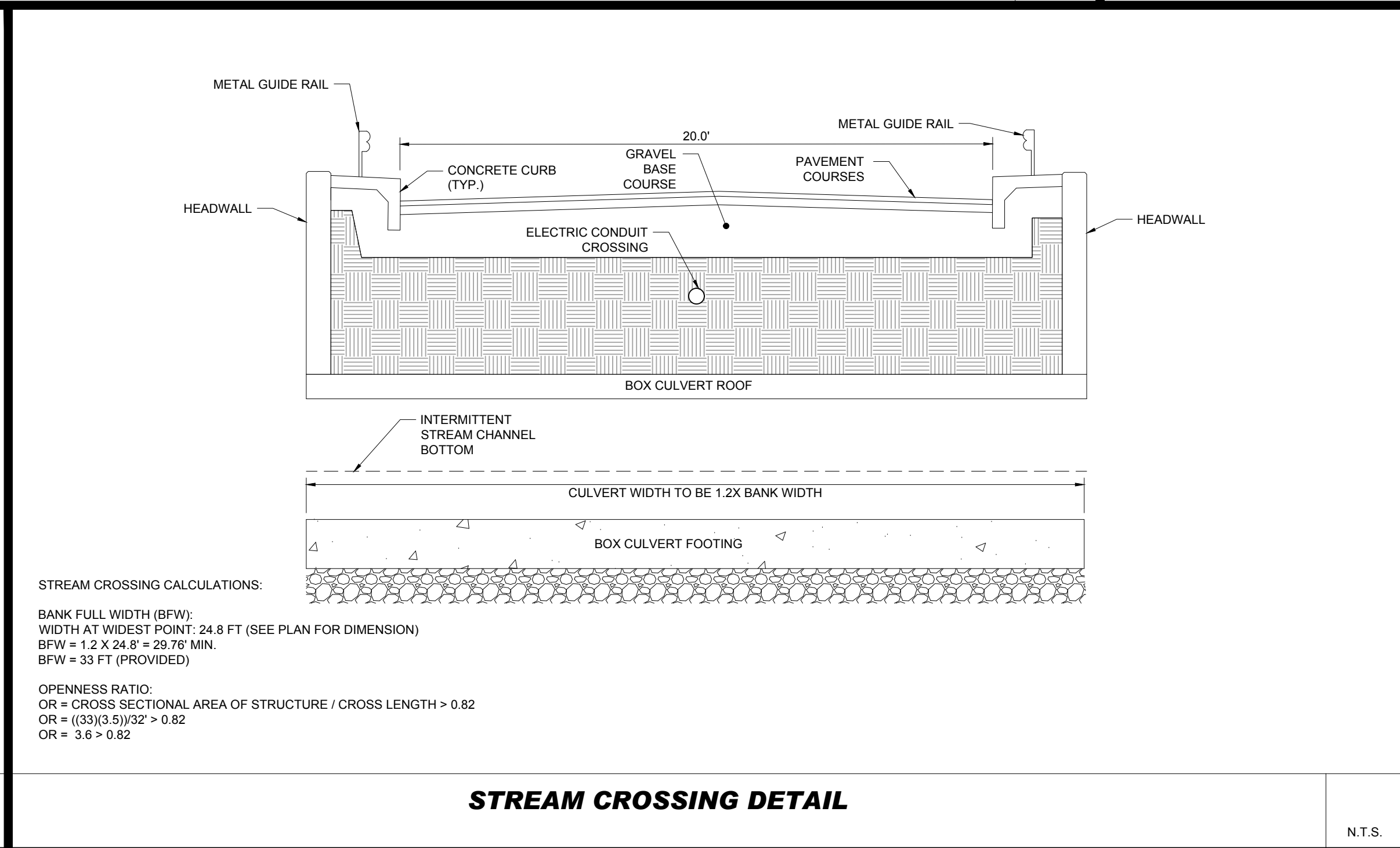
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TYPICAL PRECAST BOX CULVERT SECTION

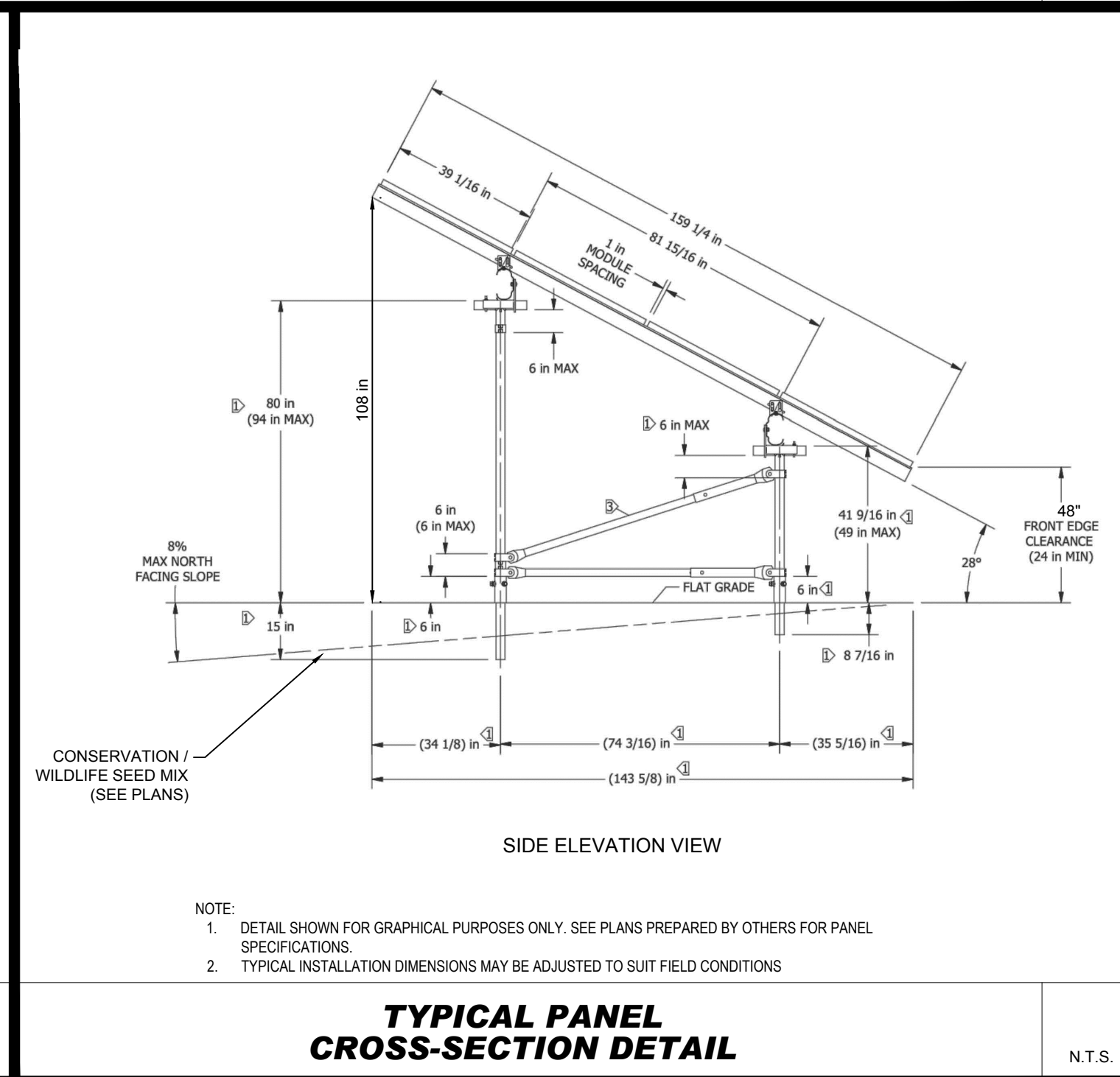
NOT TO SCALE

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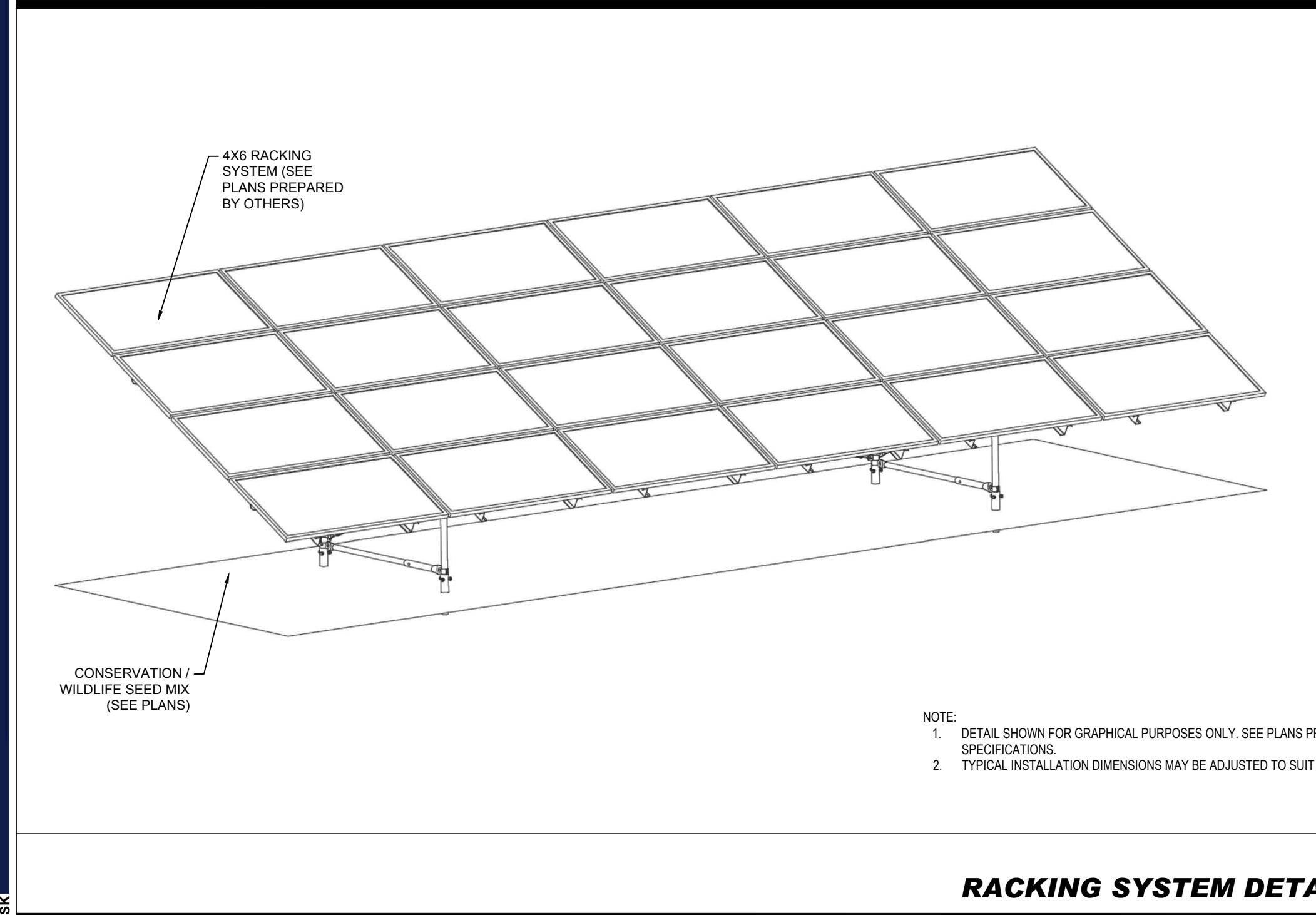
STREAM CROSSING DETAIL

N.T.S.



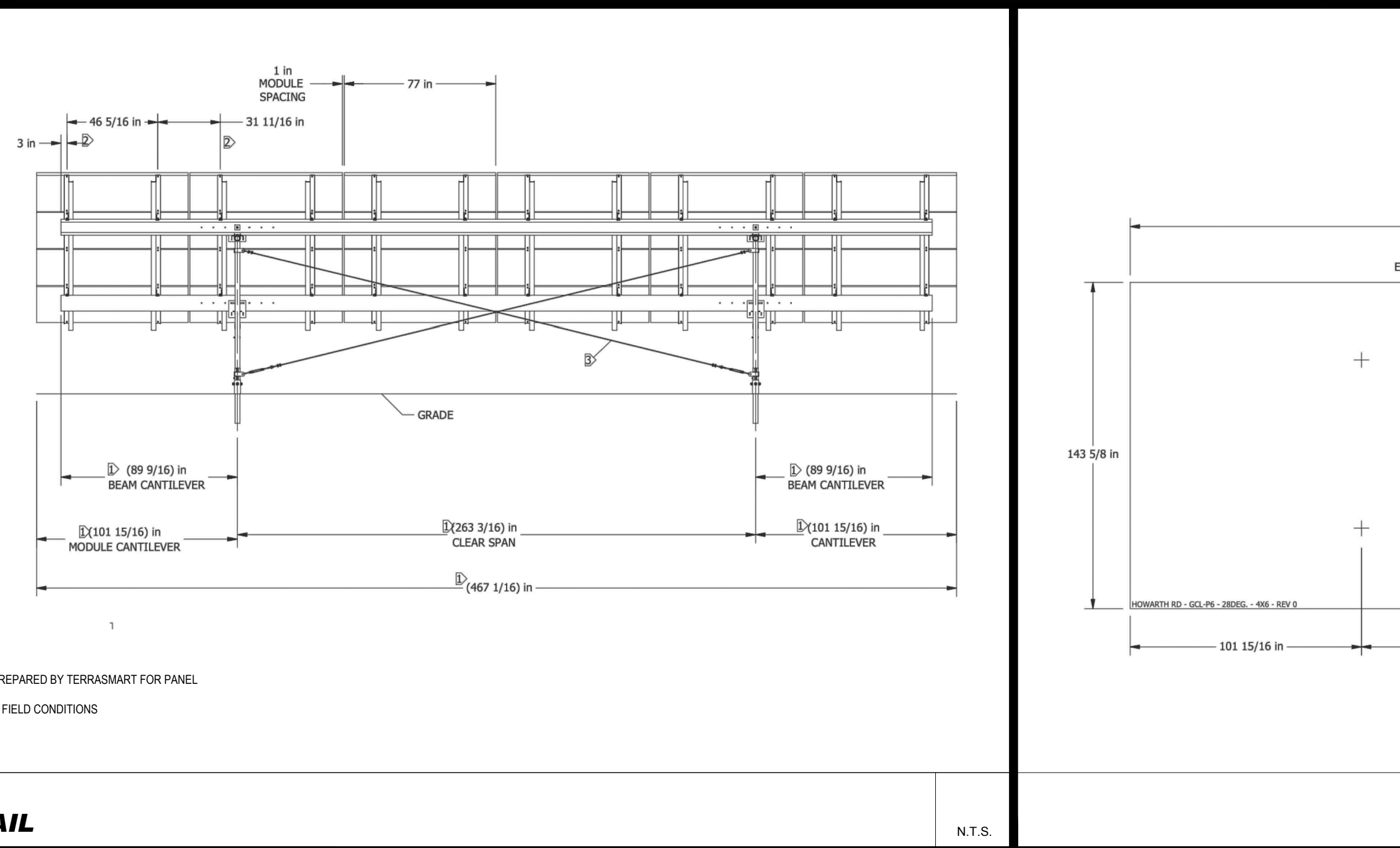
TYPICAL PANEL CROSS-SECTION DETAIL

N.T.S.



RACKING SYSTEM DETAIL

N.T.S.



PANEL LAYOUT DETAIL

N.T.S.

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

REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	10/04/2023	REVS PER UTILITY POLE LAYOUT	JDL GD
2	02/16/2024	PER TOWN COMMENTS	SMK GD

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MAPLE STREET SOLAR LLC

PROPOSED
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PROFESSIONAL ENGINEER
JAMES J. BOHLER
No. 41530
MAINE LICENSE No. 22553

DETAIL SHEET

SHEET NUMBER:
C-902

REVISION 2 - 02/16/2024

REVISIONS

REV	DATE	COMMENT	CHECKED BY
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2	02/16/2024	PER TOWN COMMENTS	SMK GD



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PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

MAPLE STREET SOLAR LLC

PROPOSED SOLAR FARM - SOUTH

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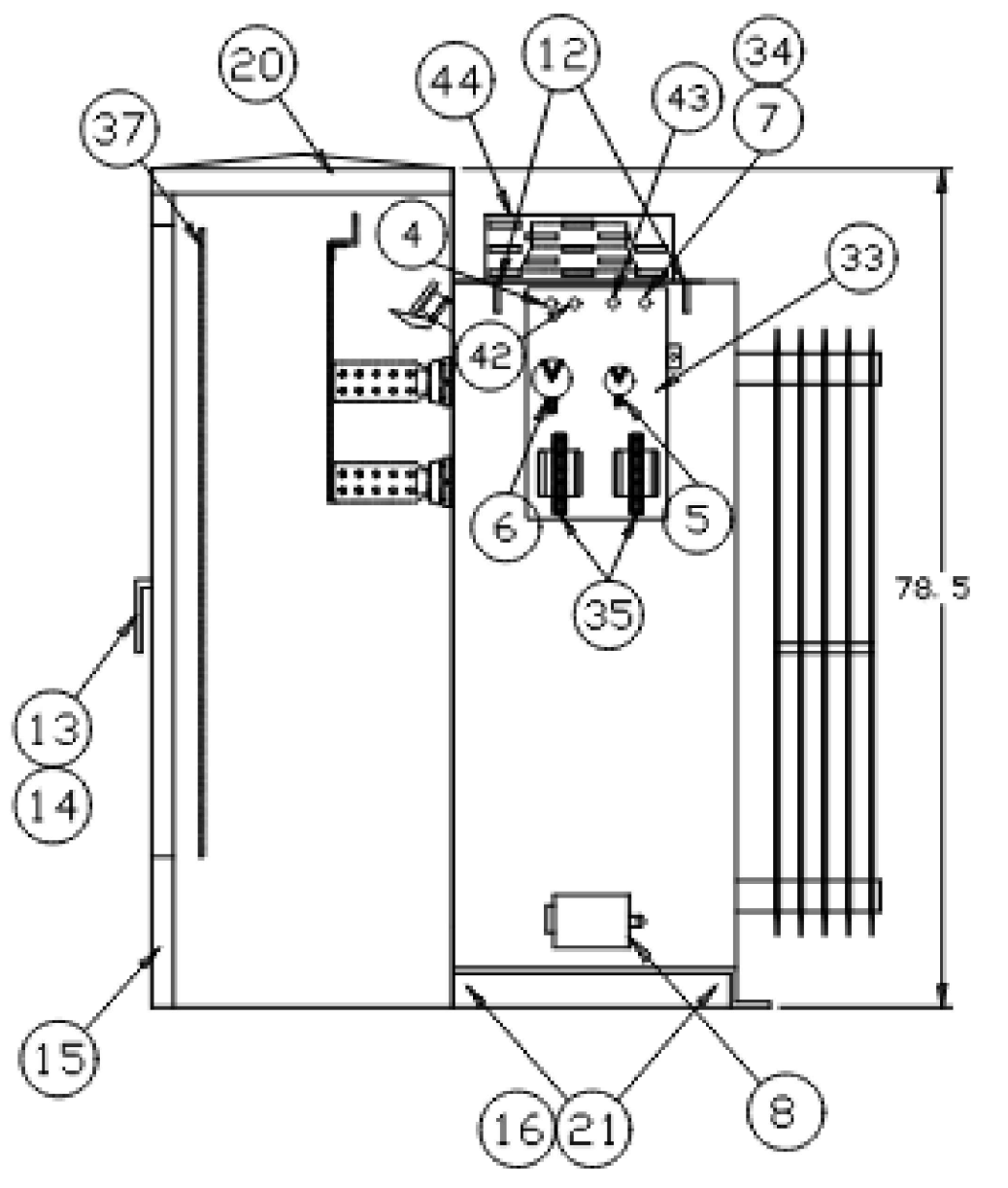
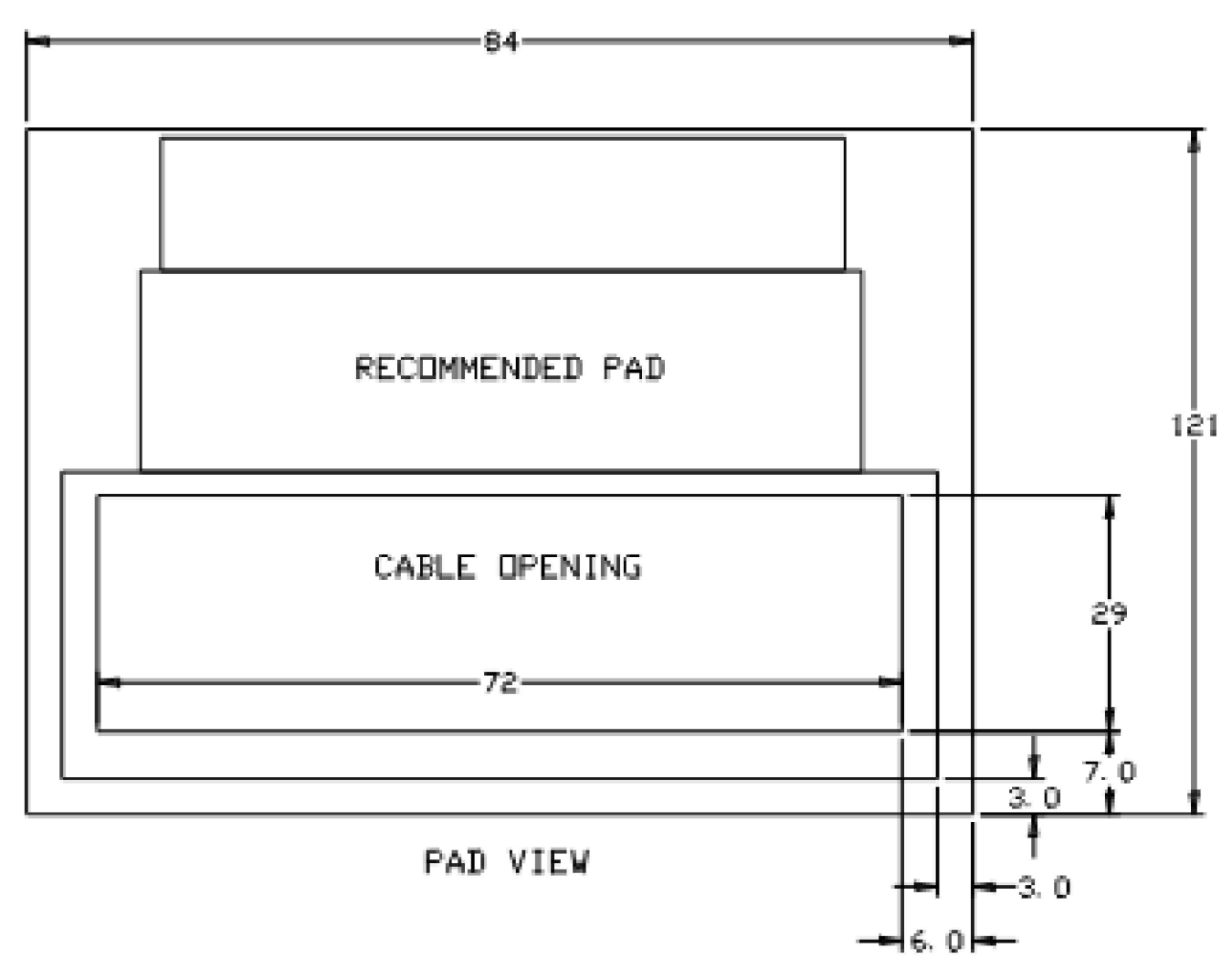
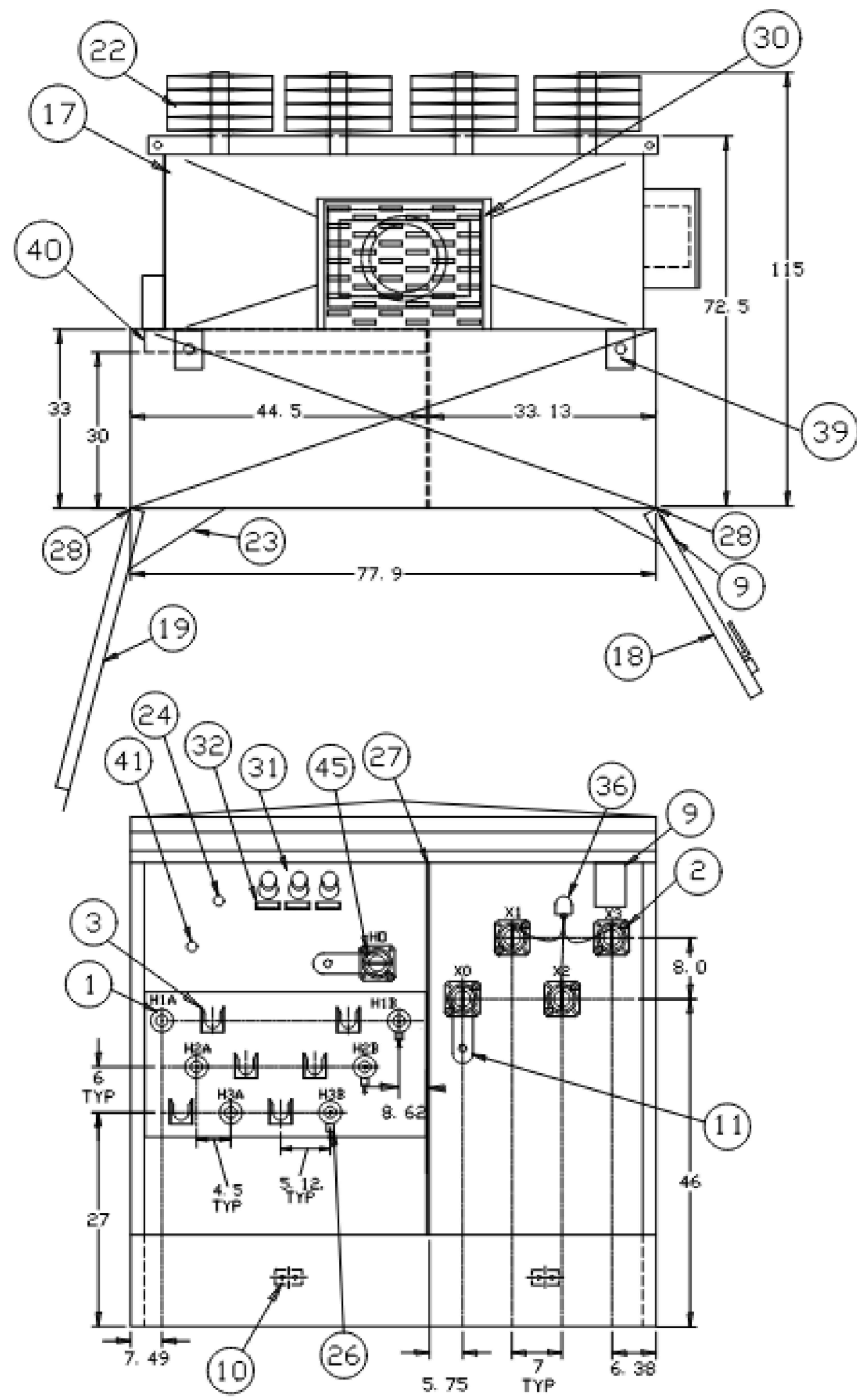
SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

C-903

REVISION 2 - 02/16/2024



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 302-060-01N)
- 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, 31SRFM-AH)
- 26 DISTRIBUTION CLASS ELBOW ARRESTER 10KV 8.4 MCOV 25CL 600AMP (SHIPPED DETAIL ON PALLET) (T&B K65SESA-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 4038361C05CB)
- 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 ASZH480C301)
- 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 BOX
- 41 2-POSITION LOAD-BREAK SWITCH (C.M. 703436-60)
- 42 GEM PRESSURE SWITCH FACTORY SET TO +7PSI
- 43 GEM 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.

BOHLER ENGINEERING, INC. PROJECT: W201257.02-DET-2A - LAYOUT: C-903.DET1

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 Franksville, Wisconsin. Such revolutionary products as distribution-class UltraSIL™ Polymer-Housed Evolution™ surge arresters and Envirotemp™ FR3™ fluid have been developed at our Franksville 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, expulsion 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 bio-degradable fluid. Electrical codes recognize the advantages of using Envirotemp™ FR3™ fluid both indoors and outdoors for fire sensitive applications. The bio-based fluid meets Occupational Safety and Health Administration (OSHA) and Section 450.23 NEC Requirements.

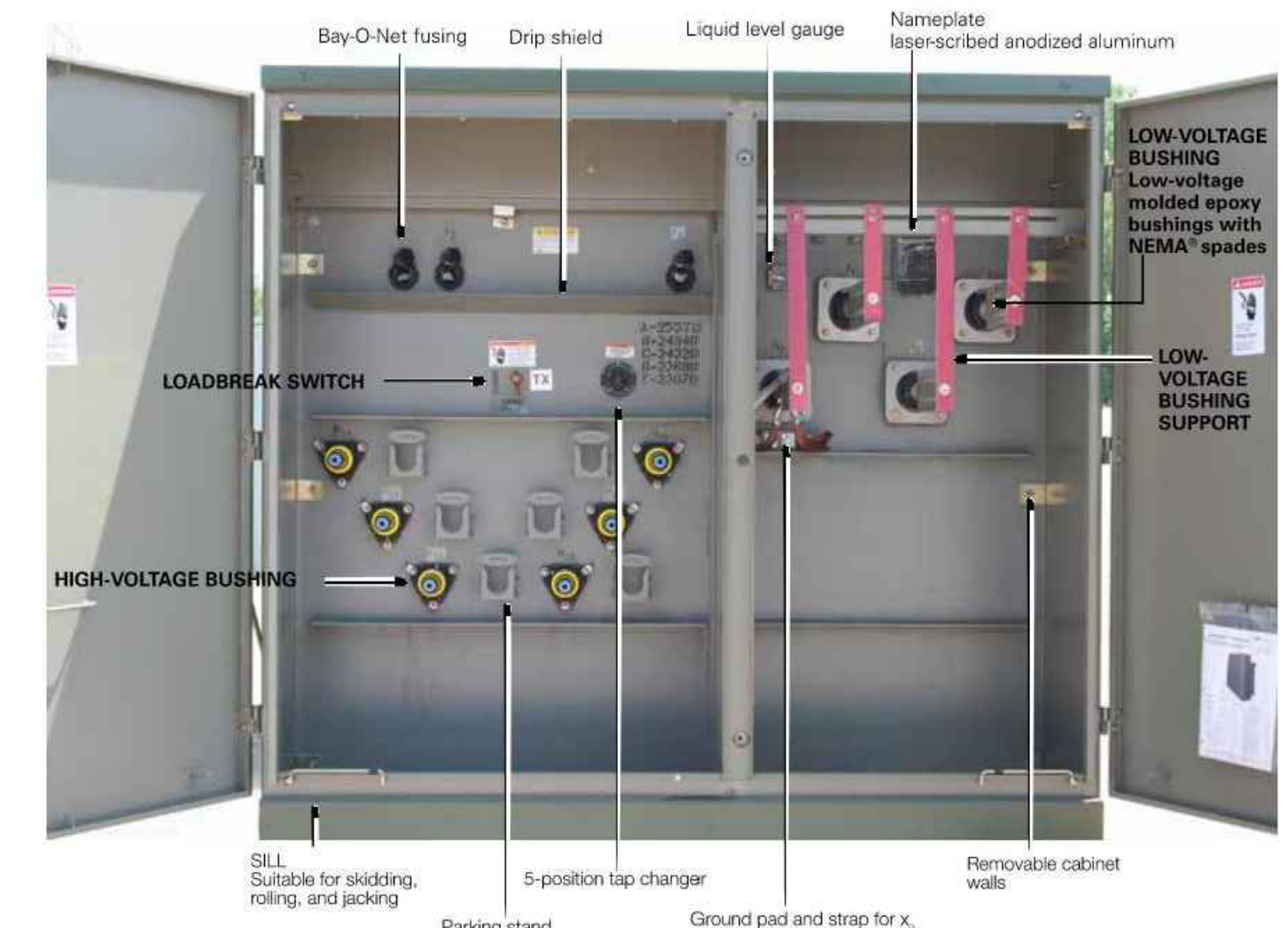


Figure 1. Three-phase pad-mounted compartmental type transformer.

Table 1. Product Scope

Type	Three Phase, 50 or 60 Hz, 65 C Rise
Fluid Type	Mineral oil or Envirotemp™ FR3™ fluid
Cell Configuration	2-winding or 4-winding or 3-winding (Low-Low-Low, 3-winding (Low-Low-High))
Size	45 – 10,000 kVA
Primary Voltage	2,400 – 48,000 V
Secondary Voltage	208Y/120 V to 14,400 V
Specialty Designs	Inverter/Rectifier Bridge K-Factor (up to K-19) Vacuum Fault Interrupter (VFI) UL® Listed & Labeled and Classified Factory Mutual (FM) Approved® Solar/Wind Designs Differential Protection Seismic Applications (including OSHA) Hardened Data Center

2 www.eaton.com/cooperpowerseries

Table 2. Three-Phase Ratings

Rating (kVA)	Low-voltage rating
45-75	2,200-5,75
112.5-300	3,100-5,75
500	4,350-5,75
750-2500	5,75
3750	5,75
5000	6,00

Table 3. Impedance Voltage

Rating (kVA)	Low-voltage rating	2400 Δ through 4800 Δ	6900 Δ through 13800GY/7970 or 13800 Δ
45-75	2,200-5,75	2,200-5,75	2,200-5,75
112.5-300	3,100-5,75	3,100-5,75	3,100-5,75
500	4,350-5,75	4,350-5,75	4,350-5,75
750-2500	5,75	5,75	5,75
3750	5,75	5,75	6,00
5000	6,00	6,00	6,50

Note: The standard tolerance is ± 75%

Table 4. Audible Sound Levels

Self-Cooled, Two Winding kVA Rating	NEMA TR-1 Average Decibels (dB)
45-500	56
501-700	57
701-1000	58
1001-1500	60
1501-2000	61
2001-2500	62
2501-3000	63
3001-4000	64
4001-5000	65
5001-6000	66
6001-7500	67
7501-10000	68

Table 5. Insulation Test Levels

kV Class	Induced Test 180 or 400 Hz 7200 Cycles	kV BIL Distribution	Applied Test 60 Hz (kV)
1.2	30		10
2.5	45		15
5	60		19
8.7	75	Twice Rated Voltage	26
15	95		34
25	125		40
34.5	150		50

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

Unit Rating (Temperature Rise Winding)	Standard	Optional
65 C	55 C, 55/65 C, 75 C	
Ambient Temperature Max	40 C	50 C
Ambient Temperature 24 Hour Average	30 C	40 C
Temperature Rise Hotspot	80 C	65 C

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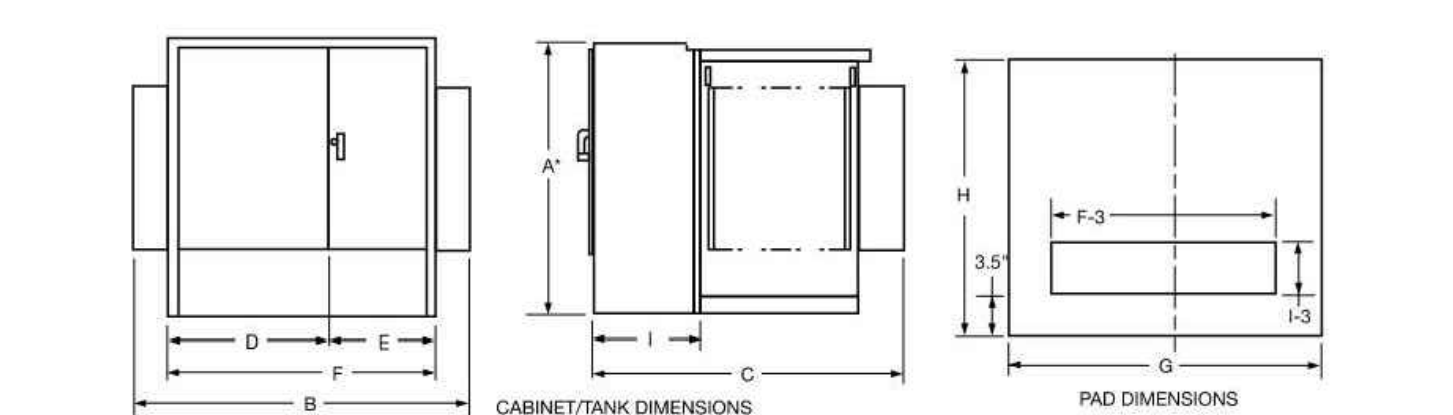


Figure 2. Transformer and pad dimensions.

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	68	39	42	28	68	72	43	20	110	2,100
75	50	68	39	42	28	68	72	43	20	115	2,250
112.5	50	68	49	42	28	68	72	53	20	120	2,350
150	50	68	49	42	28	68	72	53	20	125	2,700
225	50	72	51	42	30	72	78	55	20	140	3,150
300	50	72	51	42	30	72	78	55	20	160	3,650
500	50	88	53	42	30	72	93	57	20	190	4,650
750	64	89	57	42	30	72	93	61	20	270	6,500
1000	64	89	59	42	30	72	93	63	20	350	8,200
1500	73	89	66	42	30	72	93	90	24	410	10,300
2000	73	72	87	42	30	72	78	91	24	490	12,500
2500	73	72	89	42	30	72	78	103	24	530	14,500
3000	73	84	98	46	37	84	88	103	24	620	16,700
3750	84	85	108	47	38	85	88	112	24	660	19,300
5000	84	96	108	48	48	96	100	112	24	830	25,000
7500	94	122	122	54	48	102	100	126	24	1,580	41,500

* Add 9" 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	64	39	34	30	64	69	43	20	110	2,100
75	50	64	39	34	30	64	69	43	20	115	2,250
112.5	50	64	49	34	30	64	69	53	20	115	2,500
150	50	64	49	34	30	64	69	53	20	120	2,700
225	50	64	51	34	30	64	75	55	20	140	3,250
300	50	64	51	34	30	64	75	55	20	160	3,850
500	50	81	53	34	30	64	85	57	20	200	4,800
750	64	89	57	42	30	72	93	61	20	255	6,500
1000	64	89	59	42	30	72	93	63	20	300	7,800
1500	73	89	66	42	30	72	93	90	24	410	10,300
2000	73	72	87	42	30	72	78	91	24	420	11,600
2500	73	72	89	42	30	72	78	103	24	500	14,000
3000	73	84	98	46	37	84	88	103	24	725	18,700
3750	84	85	108	47	38	85	88	112	24	850	20,500
5000	84	96	108	48	48	96	100	112	24	850	25,000
7500	94	102	122	54	48	102	100	126	24	1,620	46,800

* Add 9" for Bay-O-Net fusing.

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THREE-PHASE PAD-MOUNTED COMPARTMENTAL TYPE TRANSFORMER



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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-904
REVISION 2 - 02/16/2024

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