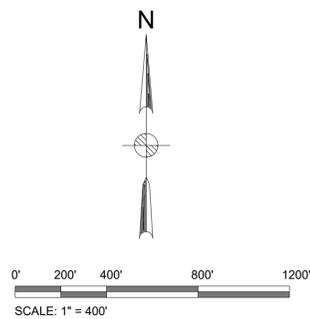


GREYCOURT ROAD SOLAR PROJECT

SITE DRAWINGS

190 GREYCOURT ROAD
CHESTER, NY 10918



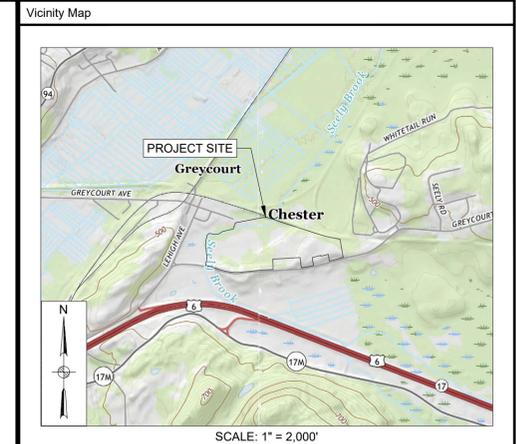
APPLICANT
NY SOLAR 1001, LLC
SCOTT GREENBERG
501 BOYLSTON STREET
BOSTON, MA 02116

ENGINEER
MOTT MACDONALD NY, INC.
438 MAIN STREET, #300
BUFFALO, NY 14202

I HEREBY GRANT APPROVAL TO THIS PLAN
SIGNATURE: _____ DATE: _____
OWNER: _____

APPROVED BY THE PLANNING BOARD
TOWN OF CHESTER, ORANGE COUNTY, N.Y.
DATE: _____ MEMBER: _____
MEMBER: _____

TAX ID: 3-1-72



| Site Data | | |
|---------------------------------|-----------------------------------|---|
| PARCEL GRID # PID 3-1-72 | PROPERTY OWNER GARY F. JOHNSON | SITE ADDRESS 190 GREYCOURT ROAD CHESTER, NY 10918 |
| JURISDICTION TOWN OF CHESTER | ZONING OFFICE PARK (OP) | ACRES 22.9 |
| CAPACITY (AC) 4.1 MW | CAPACITY (DC) 5.1 MWp | |

| Drawing List | |
|--------------|------------------------------|
| C-001: | COVER SHEET |
| C-101: | EXISTING CONDITIONS |
| C-201: | SITE PLAN |
| C-202: | LANDSCAPING PLAN (1 OF 5) |
| C-203: | LANDSCAPING PLAN (2 OF 5) |
| C-204: | LANDSCAPING PLAN (3 OF 5) |
| C-205: | LANDSCAPING PLAN (4 OF 5) |
| C-206: | LANDSCAPING PLAN (5 OF 5) |
| C-401: | GENERAL NOTES |
| C-402: | CIVIL DETAILS |
| C-403: | CIVIL DETAILS |
| C-404: | CIVIL DETAILS |
| C-405: | ROAD DETAILS |
| C-406: | ACCESS ROAD PLAN AND PROFILE |

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|----------|-------|-------------------|--------|-------|
| G | 7/27/22 | JLL | ISSUED FOR PERMIT | EMC | CC |
| F | 5/3/22 | RCH | ISSUED FOR PERMIT | EMC | CC |
| E | 4/8/22 | DOW | ISSUED FOR PERMIT | EMC | CC |
| D | 2/4/22 | DOW | ISSUED FOR PERMIT | EMJ | CC |
| C | 12/28/21 | DOW | ISSUED FOR PERMIT | EMJ | CC |
| B | 10/29/21 | DOW | ISSUED FOR PERMIT | SEP | CC |
| A | 10/14/21 | DOW | ISSUED FOR PERMIT | SEP | CC |

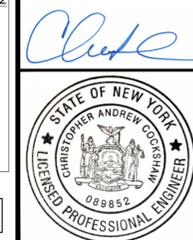
M M
MOTT MACDONALD

MOTT MACDONALD NY, INC.
438 Main Street, #300
Buffalo, NY 14202

United States
T +1 (781) 915-0015
F +1 (781) 915-0001
W www.mottmac.com

Client
NY SOLAR 1001, LLC

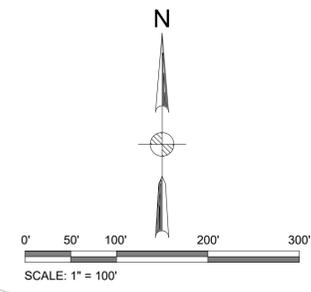
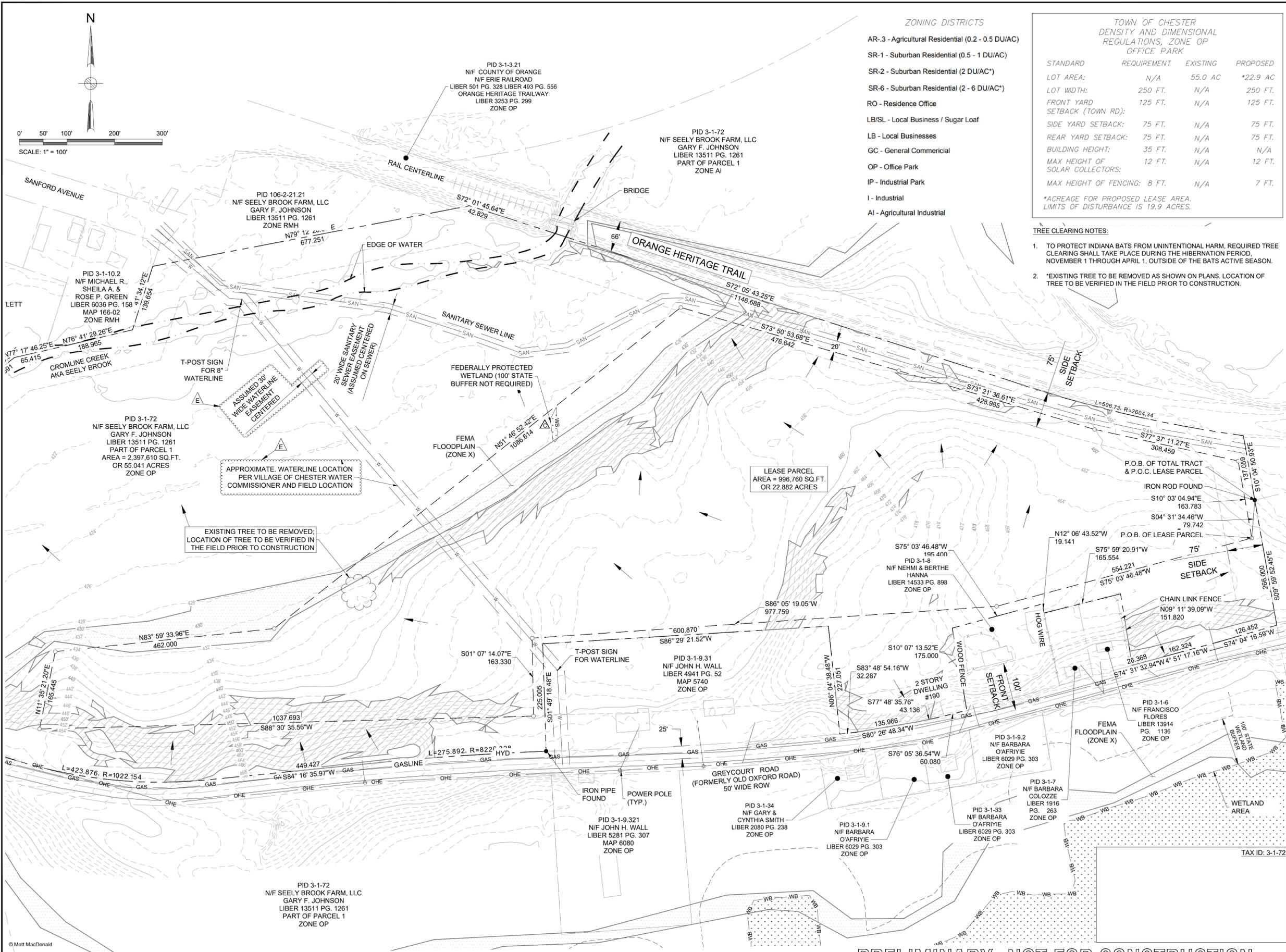
Title
 GREYCOURT ROAD SOLAR PROJECT
COVER SHEET



| | | | |
|-----------------------------|------------------|----------|-----|
| Designed | EMJ | Check | EMJ |
| Drawn | DOW | Approved | CC |
| | SEP | | |
| Scale at ANSI D AS SHOWN | Date 2/4/2022 | Rev G | |
| Drawing Number | C-001 | | |

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PRELIMINARY- NOT FOR CONSTRUCTION



ZONING DISTRICTS

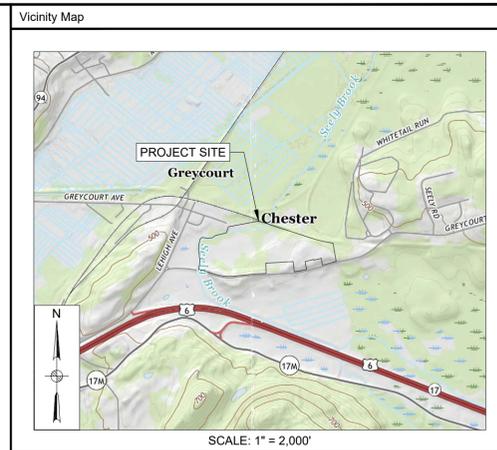
- AR-3 - Agricultural Residential (0.2 - 0.5 DU/AC)
- SR-1 - Suburban Residential (0.5 - 1 DU/AC)
- SR-2 - Suburban Residential (2 DU/AC*)
- SR-6 - Suburban Residential (2 - 6 DU/AC*)
- RO - Residence Office
- LB/SL - Local Business / Sugar Loaf
- LB - Local Businesses
- GC - General Commercial
- OP - Office Park
- IP - Industrial Park
- I - Industrial
- AI - Agricultural Industrial

TOWN OF CHESTER DENSITY AND DIMENSIONAL REGULATIONS, ZONE OP OFFICE PARK

| STANDARD REQUIREMENT | EXISTING | PROPOSED | |
|---------------------------------|----------|----------|----------|
| LOT AREA: | N/A | 55.0 AC | *22.9 AC |
| LOT WIDTH: | 250 FT. | N/A | 250 FT. |
| FRONT YARD SETBACK (TOWN RD): | 125 FT. | N/A | 125 FT. |
| SIDE YARD SETBACK: | 75 FT. | N/A | 75 FT. |
| REAR YARD SETBACK: | 75 FT. | N/A | 75 FT. |
| BUILDING HEIGHT: | 35 FT. | N/A | N/A |
| MAX HEIGHT OF SOLAR COLLECTORS: | 12 FT. | N/A | 12 FT. |
| MAX HEIGHT OF FENCING: | 8 FT. | N/A | 7 FT. |

*ACREAGE FOR PROPOSED LEASE AREA, LIMITS OF DISTURBANCE IS 19.9 ACRES.

- TREE CLEARING NOTES:**
- TO PROTECT INDIANA BATS FROM UNINTENTIONAL HARM, REQUIRED TREE CLEARING SHALL TAKE PLACE DURING THE HIBERNATION PERIOD, NOVEMBER 1 THROUGH APRIL 1, OUTSIDE OF THE BATS ACTIVE SEASON.
 - *EXISTING TREE TO BE REMOVED AS SHOWN ON PLANS. LOCATION OF TREE TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.



Site Data

| PARCEL GRID # | PROPERTY OWNER | SITE ADDRESS |
|---------------|-----------------|---|
| PID 3-1-72 | GARY F. JOHNSON | 190 GREYCOURT ROAD CHESTER, NY 10918 |

| JURISDICTION | ZONING | ACRES |
|-----------------|------------------|-------|
| TOWN OF CHESTER | OFFICE PARK (OP) | 22.9 |

Legend

- PROPERTY BOUNDARY
- - - LEASE AREA
- - - PROPERTY (ADJOINER)
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING PIPELINE
- EXISTING WATER LINE
- EXISTING SANITARY SEWER
- MAJOR CONTOUR (10' INTERVAL TYP.)
- MINOR CONTOUR (2' INTERVAL TYP.)
- WB WETLAND BOUNDARY
- RAILROAD
- EXISTING TREELINE/VEGETATION
- EDGE OF WATER LINE
- FLOW DIRECTION ARROW
- 15% OR GREATER SLOPE ZONE
- FEMA FLOODPLAIN
- WETLAND HATCH

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|----------|-------|-------------------|--------|-------|
| E | 7/27/22 | JLL | ISSUED FOR PERMIT | EMC | CC |
| D | 2/4/22 | MAA | ISSUED FOR PERMIT | EMJ | CC |
| C | 12/28/21 | DOW | ISSUED FOR PERMIT | EMJ | CC |
| B | 10/29/21 | DOW | ISSUED FOR PERMIT | SEP | CC |
| A | 10/14/21 | DOW | ISSUED FOR PERMIT | SEP | CC |

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438 Main Street, #300
Buffalo, NY 14202

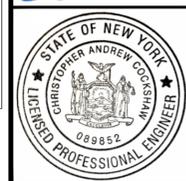
United States
T +1 (781) 915-0015
F +1 (781) 915-0001
W www.mottmac.com

Client
NY SOLAR 1001, LLC

Title
GREYCOURT ROAD SOLAR PROJECT EXISTING CONDITIONS PLAN

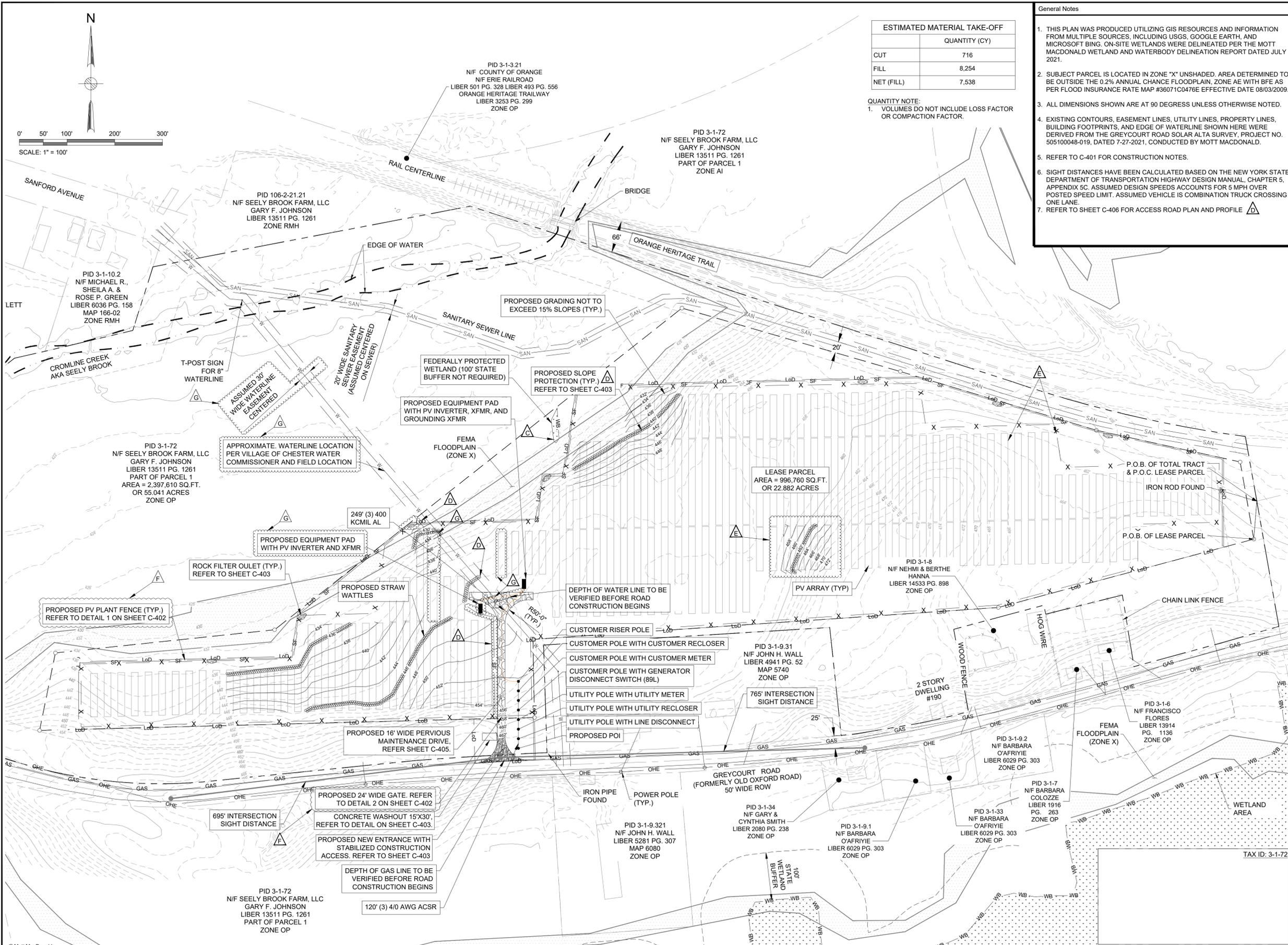
Clute

| Designed | EMJ | Check | EMJ |
|-----------------|--------------|----------|----------|
| Drawn | DOW | Approved | CC |
| Scale at ANSI D | 1" = 100' | Date | 2/4/2022 |
| Rev | E | | |
| Drawing Number | C-101 | | |



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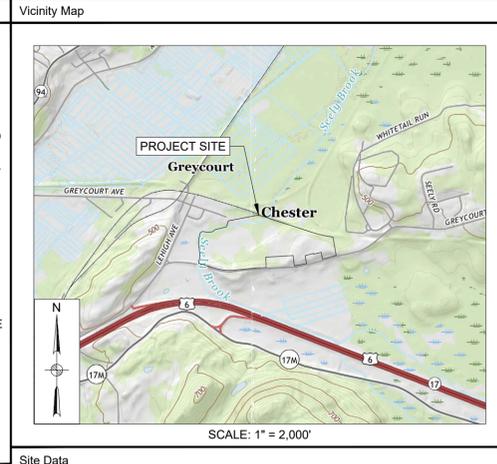
PRELIMINARY - NOT FOR CONSTRUCTION



| ESTIMATED MATERIAL TAKE-OFF | |
|-----------------------------|---------------|
| | QUANTITY (CY) |
| CUT | 716 |
| FILL | 8,254 |
| NET (FILL) | 7,538 |

QUANTITY NOTE:
1. VOLUMES DO NOT INCLUDE LOSS FACTOR OR COMPACTION FACTOR.

- General Notes
- THIS PLAN WAS PRODUCED UTILIZING GIS RESOURCES AND INFORMATION FROM MULTIPLE SOURCES, INCLUDING USGS, GOOGLE EARTH, AND MICROSOFT BING. ON-SITE WETLANDS WERE DELINEATED PER THE MOTT MACDONALD WETLAND AND WATERBODY DELINEATION REPORT DATED JULY 2021.
 - SUBJECT PARCEL IS LOCATED IN ZONE "X" UNSHADED. AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, ZONE AE WITH BFE AS PER FLOOD INSURANCE RATE MAP #36071C0476E EFFECTIVE DATE 08/03/2009.
 - ALL DIMENSIONS SHOWN ARE AT 90 DEGREES UNLESS OTHERWISE NOTED.
 - EXISTING CONTOURS, EASEMENT LINES, UTILITY LINES, PROPERTY LINES, BUILDING FOOTPRINTS, AND EDGE OF WATERLINE SHOWN HERE WERE DERIVED FROM THE GREYCOURT ROAD SOLAR ALTA SURVEY, PROJECT NO. 505100048-019, DATED 7-27-2021, CONDUCTED BY MOTT MACDONALD.
 - REFER TO C-401 FOR CONSTRUCTION NOTES.
 - SIGHT DISTANCES HAVE BEEN CALCULATED BASED ON THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL, CHAPTER 5, APPENDIX 5C. ASSUMED DESIGN SPEEDS ACCOUNTS FOR 5 MPH OVER POSTED SPEED LIMIT. ASSUMED VEHICLE IS COMBINATION TRUCK CROSSING ONE LANE.
 - REFER TO SHEET C-406 FOR ACCESS ROAD PLAN AND PROFILE.



Site Data

| | | |
|---------------------------------|-----------------------------------|---|
| PARCEL GRID # PID 3-1-72 | PROPERTY OWNER GARY F. JOHNSON | SITE ADDRESS 190 GREYCOURT ROAD CHESTER, NY 10918 |
| JURISDICTION TOWN OF CHESTER | ZONING OFFICE PARK (OP) | ACRES 22.9 |

- Legend
- PROPERTY BOUNDARY
 - LEASE AREA
 - PROPERTY (ADJOINER)
 - EXISTING OVERHEAD ELECTRIC LINE
 - GAS
 - EXISTING PIPELINE
 - W
 - EXISTING WATER LINE
 - SAN
 - EXISTING SANITARY SEWER
 - EX. MAJOR CONTOUR (10' INTERVAL TYP.)
 - EX. MINOR CONTOUR (2' INTERVAL TYP.)
 - PROPOSED MAJOR CONTOURS (2 & 10' INV.)
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED PV PLANT FENCE
 - LoD
 - PROPOSED LOD
 - SF
 - PROPOSED SILT FENCE
 - WB
 - WETLAND BOUNDARY
 - RAILROAD
 - EDGE OF WATER LINE
 - FEMA FLOODPLAIN
 - WETLAND HATCH
 - PROPOSED SLOPE PROTECTION

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|----------|-------|-------------------|--------|-------|
| G | 7/27/22 | JLL | ISSUED FOR PERMIT | EMC | CC |
| F | 5/3/22 | RCH | ISSUED FOR PERMIT | EMC | CC |
| E | 4/8/22 | JSR | ISSUED FOR PERMIT | EMC | CC |
| D | 2/4/22 | MAA | ISSUED FOR PERMIT | EMJ | CC |
| C | 12/28/21 | DOW | ISSUED FOR PERMIT | EMJ | CC |

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438 Main Street, #300
Buffalo, NY 14202

United States
T +1 (781) 915-0015
F +1 (781) 915-0001
W www.mottmac.com

Client
NY SOLAR 1001, LLC

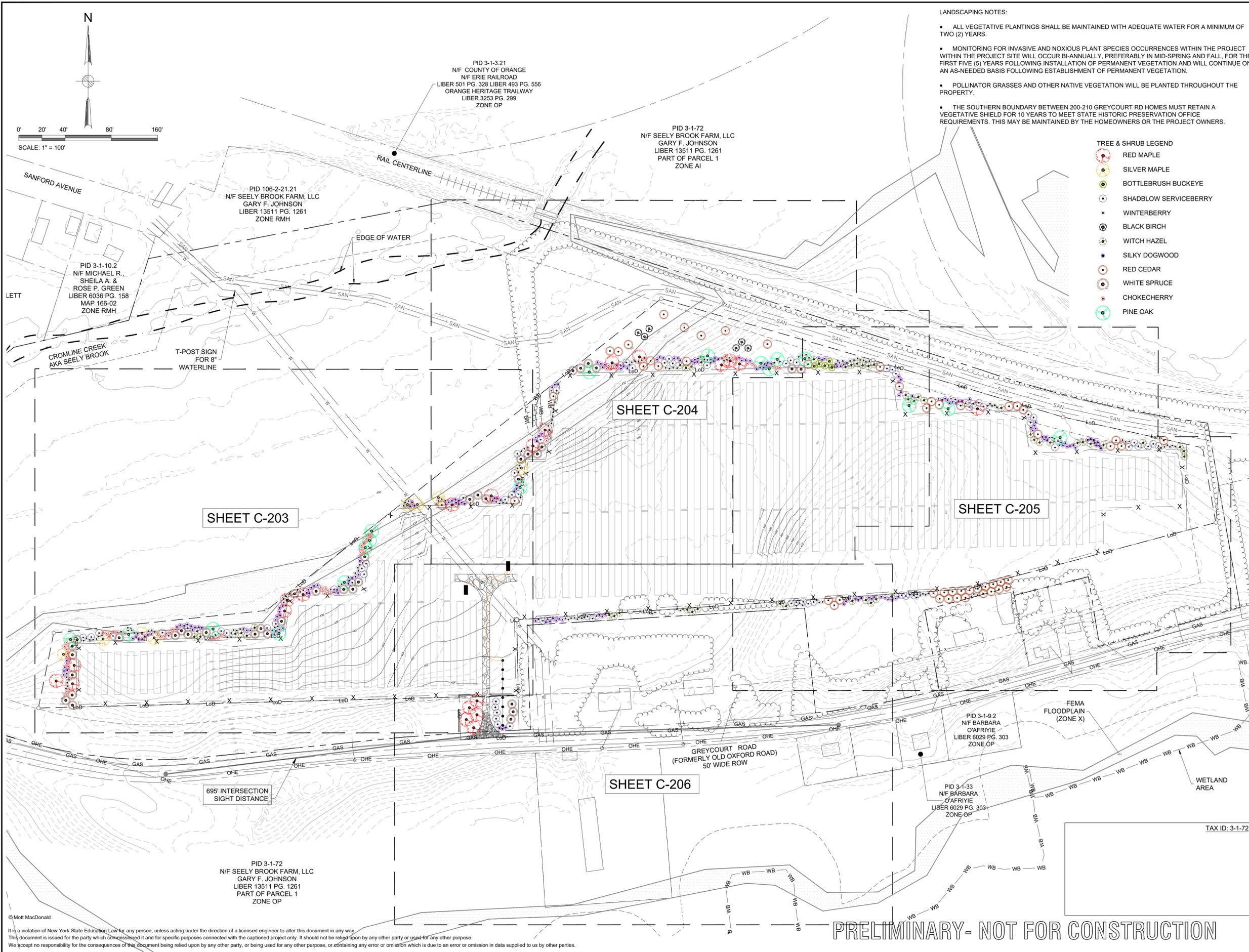
Title
**GREYCOURT ROAD SOLAR PROJECT
SITE PLAN**

Clute

| | | | |
|-----------------|-------|----------|-----|
| Designed | EMJ | Check | EMJ |
| Drawn | DOW | Approved | CC |
| Scale at ANSI D | SEP | Date | Rev |
| 1" = 100' | | 2/4/2022 | G |
| Drawing Number | C-201 | | |

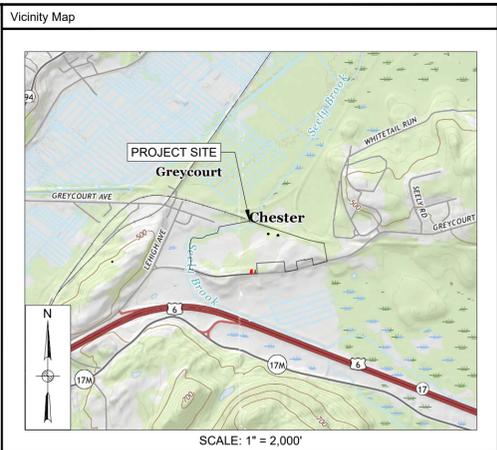
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PRELIMINARY- NOT FOR CONSTRUCTION



- LANDSCAPING NOTES:**
- ALL VEGETATIVE PLANTINGS SHALL BE MAINTAINED WITH ADEQUATE WATER FOR A MINIMUM OF TWO (2) YEARS.
 - MONITORING FOR INVASIVE AND NOXIOUS PLANT SPECIES OCCURRENCES WITHIN THE PROJECT WITHIN THE PROJECT SITE WILL OCCUR BI-ANNUALLY, PREFERABLY IN MID-SPRING AND FALL, FOR THE FIRST FIVE (5) YEARS FOLLOWING INSTALLATION OF PERMANENT VEGETATION AND WILL CONTINUE ON AN AS-NEEDED BASIS FOLLOWING ESTABLISHMENT OF PERMANENT VEGETATION.
 - POLLINATOR GRASSES AND OTHER NATIVE VEGETATION WILL BE PLANTED THROUGHOUT THE PROPERTY.
 - THE SOUTHERN BOUNDARY BETWEEN 200-210 GREYCOURT RD HOMES MUST RETAIN A VEGETATIVE SHIELD FOR 10 YEARS TO MEET STATE HISTORIC PRESERVATION OFFICE REQUIREMENTS. THIS MAY BE MAINTAINED BY THE HOMEOWNERS OR THE PROJECT OWNERS.

- TREE & SHRUB LEGEND**
- RED MAPLE
 - SILVER MAPLE
 - BOTTLEBRUSH BUCKEYE
 - SHADBLOW SERVICEBERRY
 - WINTERBERRY
 - BLACK BIRCH
 - WITCH HAZEL
 - SILKY DOGWOOD
 - RED CEDAR
 - WHITE SPRUCE
 - CHOKECHERRY
 - PINE OAK



Site Data

| | | |
|---------------------------------|-----------------------------------|---|
| PARCEL GRID # PID 3-1-72 | PROPERTY OWNER GARY F. JOHNSON | SITE ADDRESS 190 GREYCOURT ROAD CHESTER, NY 10918 |
| JURISDICTION TOWN OF CHESTER | ZONING OFFICE PARK (OP) | ACRES 22.9 |

- PROJECT BOUNDARY
- EXISTING SETBACK
- EXISTING TREELINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING RIGHT OF WAY
- EXISTING ROADWAY
- PROPOSED ACCESS ROAD
- PROPOSED DETENTION AREA
- PROPOSED LAYDOWN AREA
- PROPOSED FENCE
- PROPOSED LIMITS OF DISTURBANCE
- WETLAND HATCH

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|---------|-------|-------------------|--------|-------|
| D | 7/27/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
| C | 4/8/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
| B | 2/4/22 | JWD | ISSUED FOR PERMIT | EMJ | CC |
| A | 1/28/21 | JWD | ISSUED FOR PERMIT | EMJ | CC |

MOTT MACDONALD

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W www.mottmac.com

Client: **NY SOLAR 1001, LLC**

Title: **GREYCOURT ROAD SOLAR PROJECT
LANDSCAPING PLAN (1 OF 5)**

Clute

| | | | |
|------------------------------|-------|----------|----------|
| Designed | EMJ | Check | EMJ |
| Drawn | DOW | Approved | CC |
| Scale at ANSI D 1" = 100' | SEP | Date | 2/4/2022 |
| Drawing Number | C-202 | | |



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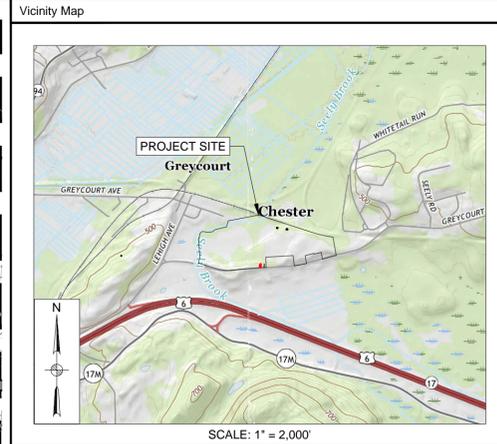
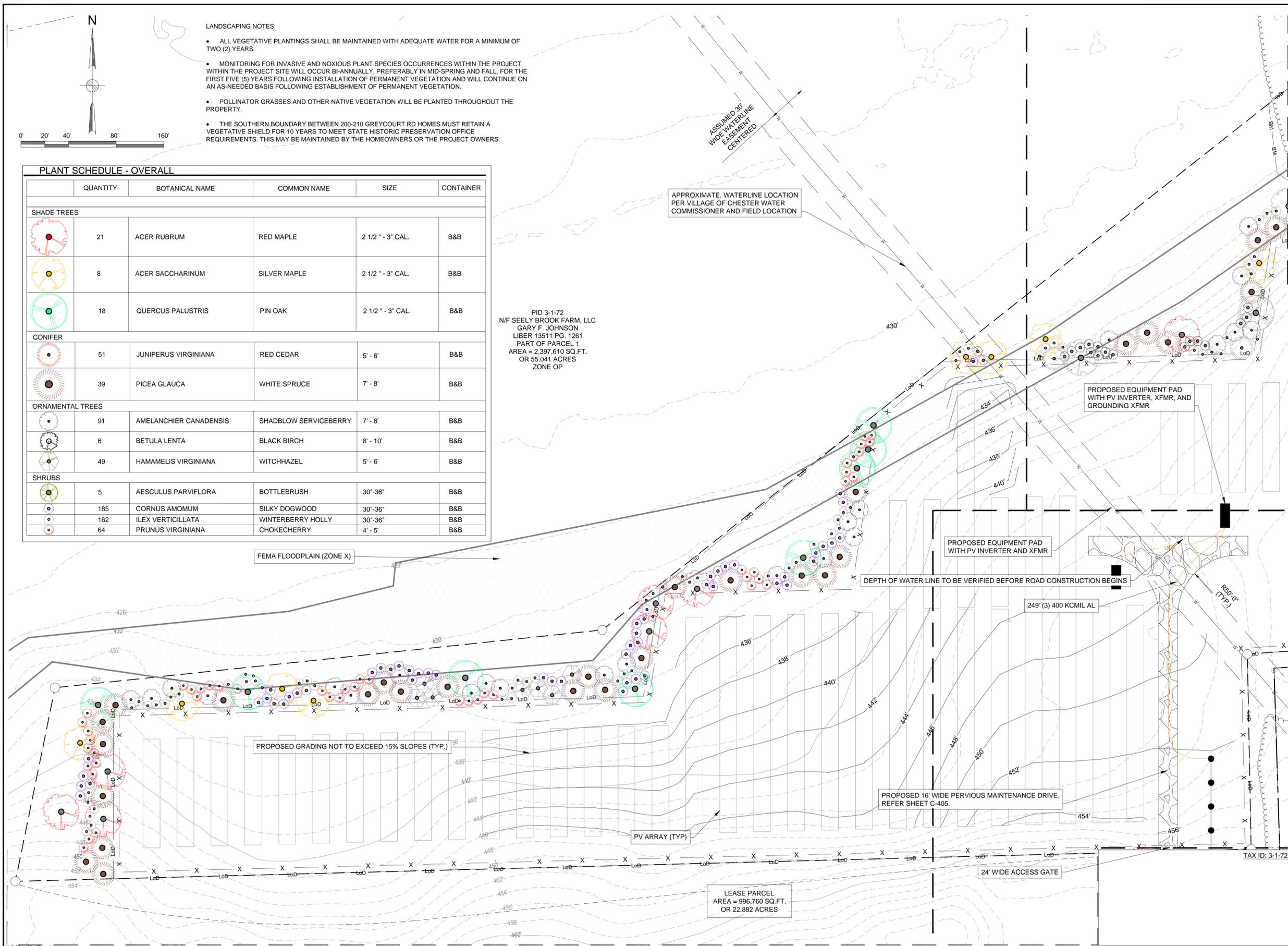
LANDSCAPING NOTES:

- ALL VEGETATIVE PLANTINGS SHALL BE MAINTAINED WITH ADEQUATE WATER FOR A MINIMUM OF TWO (2) YEARS.
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| PLANT SCHEDULE - OVERALL | | | | | |
|--------------------------|----------|------------------------|-----------------------|------------------|-----------|
| | QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER |
| SHADE TREES | | | | | |
| | 21 | ACER RUBRUM | RED MAPLE | 2 1/2" - 3" CAL. | B&B |
| | 8 | ACER SACCHARINUM | SILVER MAPLE | 2 1/2" - 3" CAL. | B&B |
| | 18 | QUERCUS PALUSTRIS | PIN OAK | 2 1/2" - 3" CAL. | B&B |
| CONIFER | | | | | |
| | 51 | JUNIPERUS VIRGINIANA | RED CEDAR | 5' - 6' | B&B |
| | 39 | PICEA GLAUCA | WHITE SPRUCE | 7' - 8' | B&B |
| ORNAMENTAL TREES | | | | | |
| | 91 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 7' - 8' | B&B |
| | 6 | BETULA LENTA | BLACK BIRCH | 8' - 10' | B&B |
| | 49 | HAMAMELIS VIRGINIANA | WITCHHAZEL | 5' - 6' | B&B |
| SHRUBS | | | | | |
| | 5 | AESCULUS PARVIFLORA | BOTTLEBRUSH | 30"-36" | B&B |
| | 185 | CORNUS AMOMUM | SILKY DOGWOOD | 30"-36" | B&B |
| | 162 | ILEX VERTICILLATA | WINTERBERRY HOLLY | 30"-36" | B&B |
| | 64 | PRUNUS VIRGINIANA | CHOKECHERRY | 4' - 5' | B&B |

PID 3-1-72
N/F SEELY BROOK FARM, LLC
GARY F. JOHNSON
LIBER 13511 PG. 1281
PART OF PARCEL 1
AREA = 2,397,610 SQ.FT.
OR 55.041 ACRES
ZONE OP



Site Data

| | | |
|---------------------------------|-----------------------------------|---|
| PARCEL GRID # PID 3-1-72 | PROPERTY OWNER GARY F. JOHNSON | SITE ADDRESS 190 GREYCOURT ROAD CHESTER, NY 10918 |
| JURISDICTION TOWN OF CHESTER | ZONING OFFICE PARK (OP) | ACRES 22.9 |

Legend

| | |
|--|---------------------------------|
| | PROJECT BOUNDARY |
| | EXISTING SETBACK |
| | EXISTING TREELINE |
| | EXISTING OVERHEAD ELECTRIC LINE |
| | EXISTING RIGHT OF WAY |
| | EXISTING ROADWAY |
| | PROPOSED ACCESS ROAD |
| | PROPOSED DETENTION AREA |
| | PROPOSED LAYDOWN AREA |
| | PROPOSED FENCE |
| | PROPOSED LIMITS OF DISTURBANCE |
| | WETLAND HATCH |

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|---------|-------|-------------------|--------|-------|
| C | 7/27/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
| B | 4/8/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
| A | 2/4/22 | JWD | ISSUED FOR PERMIT | EMJ | CC |

MOTT MACDONALD

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Buffalo, NY 14202

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F +1 (781) 915-0001
W www.mottmac.com

Client: **NY SOLAR 1001, LLC**

Title: **GREYCOURT ROAD SOLAR PROJECT LANDSCAPING PLAN (2 OF 5)**

Chris

| | | | |
|-----------------|-------|----------|-----|
| Designed | EMJ | Check | EMJ |
| Drawn | DOW | Approved | CC |
| | SEP | | |
| Scale at ANSI D | | Date | Rev |
| 1" = 100' | | 2/4/2022 | C |
| Drawing Number | C-203 | | |

STATE OF NEW YORK
CHRISTOPHER ANDREW COOK
LICENSED PROFESSIONAL ENGINEER
069852

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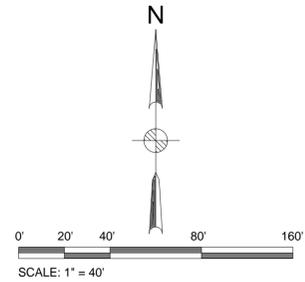
PRELIMINARY- NOT FOR CONSTRUCTION

PLANT SCHEDULE - OVERALL

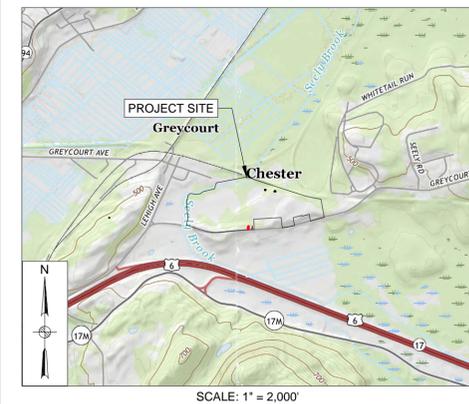
| QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER |
|-------------------------|------------------------|-----------------------|------------------|-----------|
| SHADE TREES | | | | |
| 21 | ACER RUBRUM | RED MAPLE | 2 1/2" - 3" CAL. | B&B |
| 8 | ACER SACCHARINUM | SILVER MAPLE | 2 1/2" - 3" CAL. | B&B |
| 18 | QUERCUS PALUSTRIS | PIN OAK | 2 1/2" - 3" CAL. | B&B |
| CONIFER | | | | |
| 51 | JUNIPERUS VIRGINIANA | RED CEDAR | 5' - 6' | B&B |
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| 91 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 7' - 8' | B&B |
| 6 | BETULA LENTA | BLACK BIRCH | 8' - 10' | B&B |
| 49 | HAMAMELIS VIRGINIANA | WITCHHAZEL | 5' - 6' | B&B |
| SHRUBS | | | | |
| 5 | AESCULUS PARVIFLORA | BOTTLEBRUSH | 30"-36" | B&B |
| 185 | CORNUS AMOMUM | SILKY DOGWOOD | 30"-36" | B&B |
| 162 | ILEX VERTICILLATA | WINTERBERRY HOLLY | 30"-36" | B&B |
| 64 | PRUNUS VIRGINIANA | CHOKECHERRY | 4' - 5' | B&B |

LANDSCAPING NOTES:

- ALL VEGETATIVE PLANTINGS SHALL BE MAINTAINED WITH ADEQUATE WATER FOR A MINIMUM OF TWO (2) YEARS.
- MONITORING FOR INVASIVE AND NOXIOUS PLANT SPECIES OCCURRENCES WITHIN THE PROJECT WITHIN THE PROJECT SITE WILL OCCUR BI-ANNUALLY, PREFERABLY IN MID-SPRING AND FALL, FOR THE FIRST FIVE (5) YEARS FOLLOWING INSTALLATION OF PERMANENT VEGETATION AND WILL CONTINUE ON AN AS-NEEDED BASIS FOLLOWING ESTABLISHMENT OF PERMANENT VEGETATION.
- POLLINATOR GRASSES AND OTHER NATIVE VEGETATION WILL BE PLANTED THROUGHOUT THE PROPERTY.
- THE SOUTHERN BOUNDARY BETWEEN 200-210 GREYCOURT RD HOMES MUST RETAIN A VEGETATIVE SHIELD FOR 10 YEARS TO MEET STATE HISTORIC PRESERVATION OFFICE REQUIREMENTS. THIS MAY BE MAINTAINED BY THE HOMEOWNERS OR THE PROJECT OWNERS.



Vicinity Map



Site Data

| | | |
|---------------------------------|-----------------------------------|---|
| PARCEL GRID # PID 3-1-72 | PROPERTY OWNER GARY F. JOHNSON | SITE ADDRESS 190 GREYCOURT ROAD CHESTER, NY 10918 |
| JURISDICTION TOWN OF CHESTER | ZONING OFFICE PARK (OP) | ACRES 22.9 |

Legend

| | |
|--|---------------------------------|
| | PROJECT BOUNDARY |
| | EXISTING SETBACK |
| | EXISTING TREELINE |
| | EXISTING OVERHEAD ELECTRIC LINE |
| | EXISTING RIGHT OF WAY |
| | EXISTING ROADWAY |
| | PROPOSED ACCESS ROAD |
| | PROPOSED DETENTION AREA |
| | PROPOSED LAYDOWN AREA |
| | PROPOSED FENCE |
| | PROPOSED LIMITS OF DISTURBANCE |
| | WETLAND HATCH |

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|---------|-------|-------------------|--------|-------|
| C | 7/27/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
| B | 4/8/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
| A | 2/4/22 | JWD | ISSUED FOR PERMIT | EMJ | CC |

MOTT MACDONALD

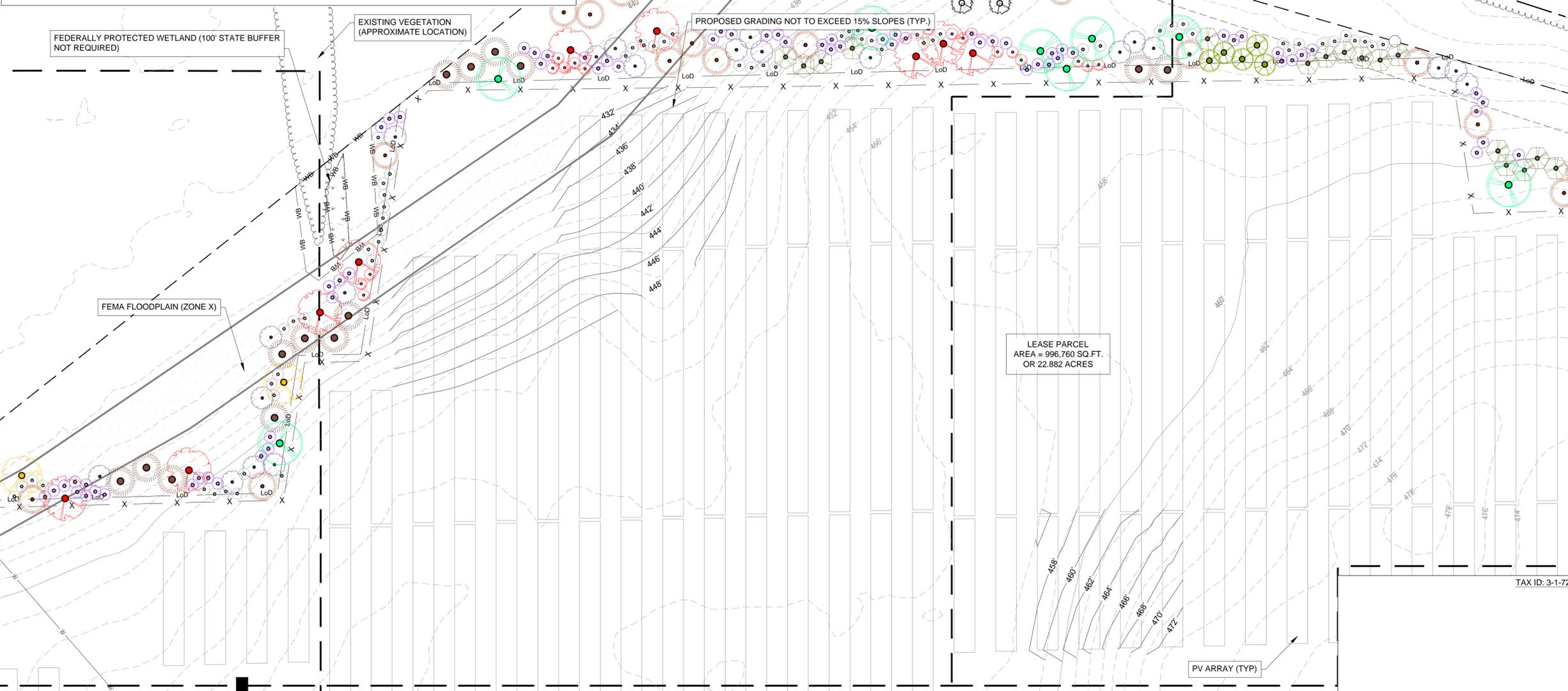
MOTT MACDONALD NY, INC.
438 Main Street, #300
Buffalo, NY 14202

United States
T +1 (781) 915-0015
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W www.mottmac.com

Client
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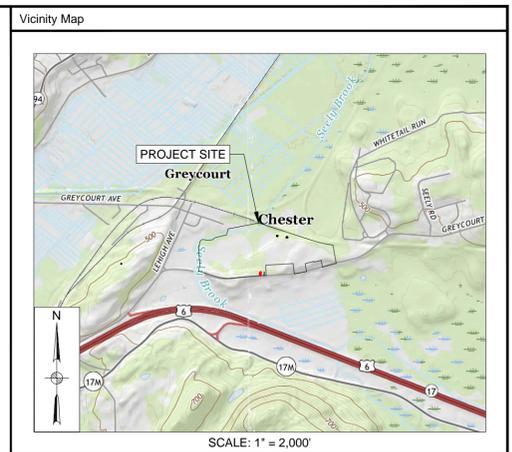
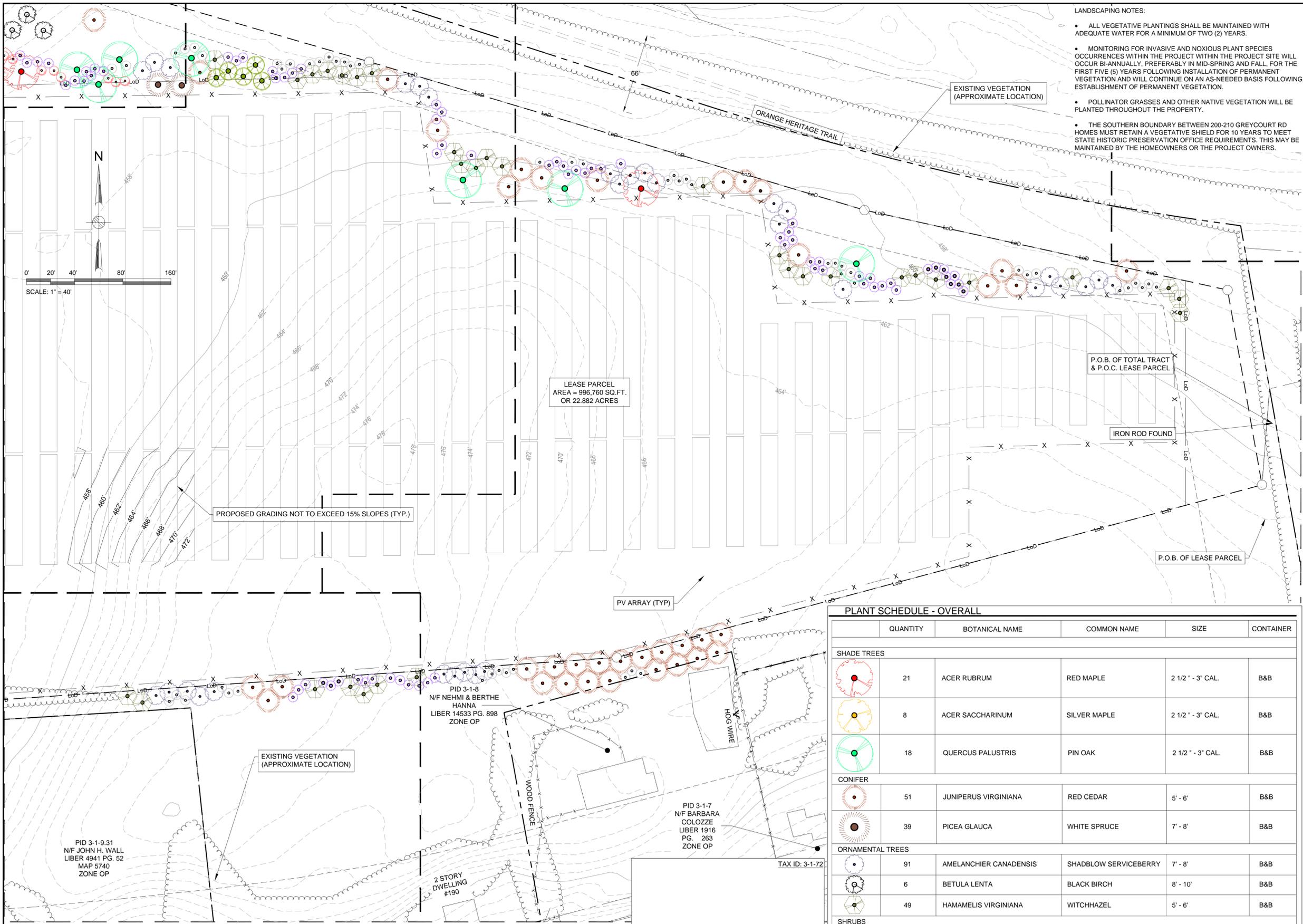
Title
**GREYCOURT ROAD SOLAR PROJECT
LANDSCAPING PLAN (3 OF 5)**

| | | | |
|-----------------|-------|----------|-----|
| Designed | EMJ | Check | EMJ |
| Drawn | JWD | Approved | CC |
| Scale at ANSI D | SEP | Date | Rev |
| 1" = 40' | | 2/4/2022 | C |
| Drawing Number | C-204 | | |



PRELIMINARY- NOT FOR CONSTRUCTION

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Site Data

| | | |
|---------------------------------|-----------------------------------|--|
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| JURISDICTION TOWN OF CHESTER | ZONING OFFICE PARK (OP) | ACRES 22.9 |

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| Rev | Date | Drawn | Description | Ch'k'd | App'd |
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| C | 7/27/22 | JRH | ISSUED FOR PERMIT | EMC | CC |
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| A | 2/4/22 | JWD | ISSUED FOR PERMIT | EMJ | CC |

PLANT SCHEDULE - OVERALL

| | QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER |
|-------------------------|----------|------------------------|-----------------------|------------------|-----------|
| SHADE TREES | | | | | |
| | 21 | ACER RUBRUM | RED MAPLE | 2 1/2" - 3" CAL. | B&B |
| | 8 | ACER SACCHARINUM | SILVER MAPLE | 2 1/2" - 3" CAL. | B&B |
| | 18 | QUERCUS PALUSTRIS | PIN OAK | 2 1/2" - 3" CAL. | B&B |
| CONIFER | | | | | |
| | 51 | JUNIPERUS VIRGINIANA | RED CEDAR | 5' - 6' | B&B |
| | 39 | PICEA GLAUCA | WHITE SPRUCE | 7' - 8' | B&B |
| ORNAMENTAL TREES | | | | | |
| | 91 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 7' - 8' | B&B |
| | 6 | BETULA LENTA | BLACK BIRCH | 8' - 10' | B&B |
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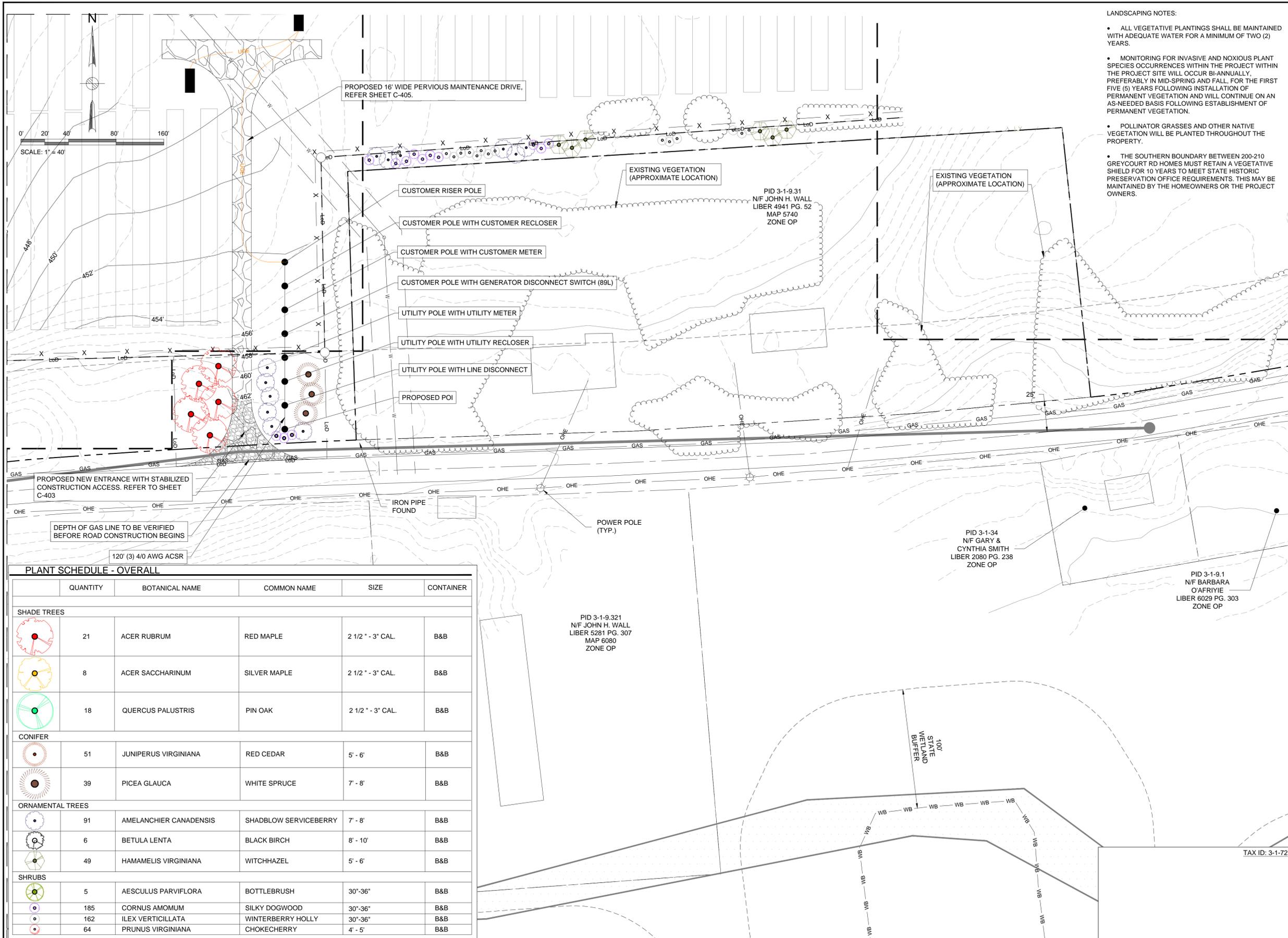
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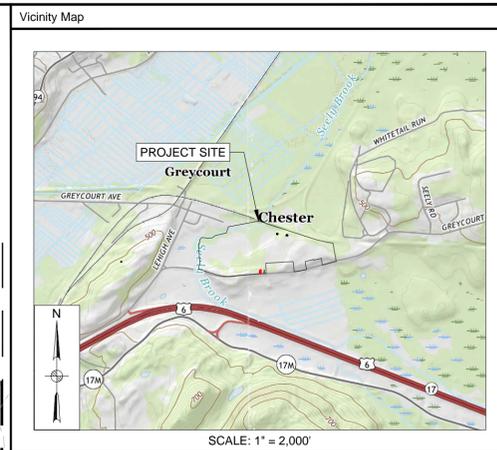
Title
**GREYDCOURT ROAD SOLAR PROJECT
LANDSCAPING PLAN (4 OF 5)**

Clute

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|-----------------|--------------|----------|-----|
| Designed | EMJ | Check | EMJ |
| Drawn | JWD | Approved | CC |
| | SEP | | |
| Scale at ANSI D | Date | Rev | |
| 1" = 40' | 2/4/2022 | C | |
| Drawing Number | C-205 | | |



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Client
NY SOLAR 1001, LLC

Title
**GREYCOURT ROAD SOLAR PROJECT
LANDSCAPING PLAN (5 OF 5)**

Clute

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|-----------------|-------|----------|-----|
| Designed | EMJ | Check | EMJ |
| Drawn | JWD | Approved | CC |
| Scale at ANSI D | SEP | Date | Rev |
| 1" = 40' | | 2/4/2022 | C |
| Drawing Number | C-206 | | |

STATE OF NEW YORK
CHRISTOPHER ANDREW COOK
LICENSED PROFESSIONAL ENGINEER
089852

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PRELIMINARY- NOT FOR CONSTRUCTION

GENERAL NOTES:

- THIS PLAN WAS PRODUCED UTILIZING GIS RESOURCES AND INFORMATION FROM MULTIPLE SOURCES, INCLUDING USGS, GOOGLE EARTH, AND MICROSOFT BING. ON-SITE WETLANDS WERE DELINEATED PER THE MOTT MACDONALD WETLAND AND WATERBODY DELINEATION REPORT DATED JULY 2021. 0.02 ACRES OF WETLAND LIE WITHIN THE PROJECT AREA.
- BEARINGS AND NORTH SHOWN HEREON ARE REFERENCED TO NAD 83-NY EAST USING NYSNET RTN GPS.
- TOPOGRAPHY HAS BEEN DERIVED FROM NY STATE LIDAR DATA AND VERIFIED WITH TRADITIONAL GROUND RUN SURVEY. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD 88 REFERENCED TO GEOID 18.
- SUBJECT PARCEL IS LOCATED IN ZONE "X" UNSHADED. AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, ZONE AE WITH BFE AS PER FLOOD INSURANCE RATE MAP #36071C0476E EFFECTIVE DATE 08/03/2009.
- PROJECT AREA, INCLUDING CONSTRUCTION STAGING AREAS, SHALL BE CLEARED AND GRUBBED AS NECESSARY, RETAINING PRE-DEVELOPMENT DRAINAGE PATTERNS TO THE GREATEST EXTENT POSSIBLE.
- ALL DIMENSIONS SHOWN ARE AT 90 DEGRESS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CALL DIG SAFELY NEW YORK, CALL 811 AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
- CONTRACTOR SHALL MAINTAIN ACCESS AND UTILITY SERVICES TO ANY REMAINING BUILDING(S) OR ADJACENT BUILDING(S) THROUGHOUT THE DEMOLITION AND CONSTRUCTION PHASES. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE SIGNS, BARRICADES, WARNING LIGHTS, GUARD RAILS, AND EMPLOY FLAGGERS AS NECESSARY WHEN CONSTRUCTION ENDANGERS EITHER VEHICULAR OR PEDESTRIAN TRAFFIC. THESE DEVICES SHALL REMAIN IN PLACE UNTIL THE TRAFFIC MAY PROCEED NORMALLY AGAIN.
- DURING SITE DEVELOPMENT, CONSPICUOUS AND LEGIBLE SIGNAGE INDICATING THE NAME OF THE PRACTICE, SPDES PERMIT NUMBER, ETC. SHALL BE POSTED IN THE IMMEDIATE VICINITY OF THE STORMWATER MANAGEMENT PRACTICES.
- EQUIPMENT AUDIBLE EMISSION LEVELS MEASURED AT A DISTANCE OF 1 METER FROM SOURCE:
 INVERTER: 65 db(A)
 TRANSFORMER: 50 db(A)
- PESTICIDES AND HERBICIDES ARE NOT PERMITTED WITHIN THE SENSITIVE OVERLAY (SA) DISTRICT. ANY MAINTENANCE OF GROUND VEGETATION SHALL BE MECHANICAL MEANS.
- 2.66 ACRES OF THE PROJECT SITE INCLUDE SLOPES GREATER THAN 15%.
- THE SUBJECT PROPERTY LIES WITHIN TOWN OF CHESTER, NY ZONE OP (OFFICE PARK).
- EXISTING CONTOURS, EASEMENT LINES, UTILITY LINES, PROPERTY LINES, BUILDING FOOTPRINTS, AND EDGE OF WATERLINE SHOWN HERE WERE DERIVED FROM THE GREYCOURT ROAD SOLAR ALTA SURVEY, PROJECT NO. 505100048-019, DATED 7-27-2021, CONDUCTED BY MOTT MACDONALD.

CONSTRUCTION SEQUENCE NOTES:

- THE OWNER/OPERATOR SHALL FILE AN NOTICE OF INTENT (NOI) WITH THE NYSDEC 5 BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH SPDES PERMIT GP-0-20-001.
- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE PROJECT TEAM INVOLVED IN SITE DISTURBANCE.
 LOCATE ALL EXISTING UTILITIES WITHIN PROJECT AREA (DIG SAFELY NEW YORK-811).
 THE OWNER OPERATOR SHALL AUTHORIZE THE QUALIFIED PROFESSIONAL TO PERFORM WEEKLY INSPECTIONS FOR EROSION AND SEDIMENT CONTROL ONCE CONSTRUCTION BEGINS.
- INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, AND OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED IMMEDIATELY AFTER CONSTRUCTION.
 INSTALL STABILIZED CONSTRUCTION ENTRANCE.
 CLEAR ONLY THE AREAS NECESSARY TO INSTALL EROSION CONTROL MEASURES. GRUB ONLY AS NECESSARY TO INSTALL SILT FENCING AS DESIGNATED WITHIN THIS PLAN. ANY ADJUSTMENT TO THE EROSION CONTROL MEASURES AS SHOWN TO ACCOMMODATE EXISTING UNFORESEEN FIELD CONDITIONS, MUST BE APPROVED BY THE ENGINEER OF RECORD. SILT FENCE SHALL BE INSTALLED PARALLEL TO THE CONTOUR, UNLESS SPECIFIED OTHERWISE ON THE PLAN.
 SILT FENCE SHOULD BE INSTALLED ON ALL DOWNSLOPE PORTIONS OF THE DISTURBED AREA. SILT FENCE SHOULD NOT BE INSTALLED ON THE HIGH SIDE OF THE DISTURBANCE AREA (TREE PROTECTION FENCING IS AN ACCEPTABLE ALTERNATIVE IF DESIRED). SILT FENCE LOCATIONS MAY VARY FROM THE APPROVED PLANS PER SITE CONDITIONS. COMPOST FILTER SOCK MAY BE USED ALONG LONG SLOPES AND LAID PARALLEL TO THE CONTOUR IN ACCORDANCE WITH CHAPTER 5 OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, JULY, 2016. FILTER SOCKS MAY BE SUBSTITUTED FOR SLOPE BREAKS, CHECK DAMS, AND INLET PROTECTION. THE COMPOST SOCK MUST BE INSTALLED PER MANUFACTURER SPECIFICATIONS. THEY MUST BE SIZED TO PREVENT OVERTOPPING. INSTALL BARRIERS PRIOR TO CONSTRUCTION ACTIVITIES. ALL MEASURES TO BE INSTALLED CONSISTENT WITH THIS PLAN SET AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, JULY, 2016. PRIOR TO INSTALLING A MEASURE, EVALUATE THE SURROUNDING AREA IN THE FIELD TO CONFIRM THAT THE SPECIFIED MEASURE AND BE CONSTRUCTED/INSTALLED AS TO FUNCTION PROPERLY. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING TO MAINTAIN SUFFICIENT SEDIMENT PROTECTION.
 ALL STOCKPILES, FUEL TANKS, AND CONCRETE WASHOUT AREAS SHOULD BE NO LESS THAN 50 FEET AWAY FROM ALL INLETS AND WATER.
 INSTALL STABILIZE AND LINE CLEAN SILT FENCE BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING TO PROVIDE/MAINTAIN SUFFICIENT SEDIMENT PROTECTION.
 APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
- CALL THE QUALIFIED PROFESSIONAL FOR AN ONSITE INSPECTION PRIOR TO CLEARING AND GRUBBING.
 TO PROTECT INDIANA BATS FROM UNINTENTIONAL HARM, REQUIRED TREE CLEARING SHALL TAKE PLACE DURING THE HIBERNATION PERIOD, NOVEMBER 1 THROUGH MARCH 31, WHEN BATS ARE NOT EXPECTED TO BE PRESENT.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
 BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES.
 INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE INCLUDING ADDITIONAL SILT FENCE.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
 ESTABLISH GROUND COVER ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
 PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICH-EVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 COMPLETE ALL SITE IMPROVEMENTS.
 PLANT/STABILIZE REMAINDER OF SITE.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL QUALIFIED PROFESSIONAL FOR AN INSPECTION.
- PRIOR TO REMOVAL OF SILT FENCE, SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE QUALIFIED PROFESSIONAL. FILE A NOTICE OF TERMINATION (NOT).

GRADING AND DRAINAGE NOTES:

- THIS DRAWING IS THE PRELIMINARY DESIGN AND SHOWS BASIC FEATURES ONLY. ADDITIONAL FEATURES MAY BE REQUIRED NOT SHOWN IN THIS DRAWING.
- THE SITE SHALL BE CLEARED AND GRUBBED TO REMOVE ALL DEBRIS, TOPSOIL AND ORGANIC MATERIAL GREATER THAN 1-INCH IN DIAMETER. ALL TRASH SHALL BE REMOVED.
- WHERE TOPSOIL STRIPPING IS REQUIRED, TOPSOIL, OR OTHER SOIL ENCOUNTERED, THAT PROMOTES VEGETATIVE GROWTH SHALL BE STOCKPILED AND USED IN AREAS THAT WILL BE SEEDED. TOPSOIL SHALL BE DEFINED AS SURFACE ROOT-ZONE SOILS WITH AN ORGANIC CONTENT OF GREATER THAN 8% BY WET COMBUSTION TEST METHODS.
- AFTER COMPLETION OF CLEARING AND GRUBBING OPERATIONS, ALL AREAS SHOWN TO SUPPORT STRUCTURAL FILL MATERIAL, AND/OR STRUCTURES, SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK. PROOF ROLLING SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER. IDENTIFIED WEAK OR SOFT AREAS SHALL BE RECTIFIED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS, AND ANY GUIDANCE PROVIDED BY THE GEOTECHNICAL ENGINEER.
- FILL MATERIAL, PLACEMENT AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT. EXCEPT AS SPECIFICALLY NOTED FOR STRUCTURAL SELECT FILL FOR THE ARCH CULVERT IN THE DETAIL NOTES.
- STRUCTURAL FILL MATERIAL CLASSIFICATIONS AND PLACEMENT REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS EXCEPT AS SPECIFICALLY MODIFIED FOR THE ARCH CULVERT AS NOTED IN THE DETAILS.
- IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY AN EXPERIENCED GEOTECHNICAL ENGINEERING TECHNICIAN TO EVALUATE THE PERFORMANCE OF THE CONTRACTOR'S COMPACTION EFFORTS. COMPACTION TESTING SHALL BE PERFORMED AT A TESTING FREQUENCY OF ONE TEST PER 10,000 SQUARE FEET, PER LIFT, AND DIRECT TESTING IN ANY AREA WHERE SOFT OR QUESTIONABLE MATERIAL MAY BE IDENTIFIED. THE TECHNICIAN SHALL ALSO BE EMPLOYED TO ASSIST THE GRADING CONTRACTOR IN MOISTURE CONTROL BY PERFORMING ON-SITE FILL MOISTURE TESTS.
- ALL DISTURBED AREAS SHALL BE SEEDED UPON COMPLETION OF GRADING AND EARTHWORK OPERATIONS. STAKED, OVERLAPPING SOD MAY BE REQUIRED IN AREAS WHERE THE CONTRACTOR CANNOT ESTABLISH A STAND OF SEED. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING SEED UNTIL A STABLE AND ROBUST STAND OF PLANTINGS ARE ESTABLISHED.
- THE FINISH GRADE OF ALL FILLED AREAS THAT ARE NOT GRAVELED, SHALL INCLUDE PLACEMENT OF MINIMUM 6" TOPSOIL MATERIAL.
- FILL VOLUME INCLUDES REPLACEMENT VOLUME OF REMOVED MINIMUM 6" TOPSOIL FOR SITE PREPARATION. TOPSOIL DEPTHS SHALL BE ADJUSTED BASED ON OBSERVABLE ROOT ZONE DEPTHS AND/OR ORGANIC CARBON CONTENT WHERE ROOT ZONE MAY BE INDETERMINATE OR DISPUTED. FILL VOLUME DOES NOT INCLUDE VOLUME OF REQUIRED GRAVEL SURFACING FOR ACCESS DRIVES. ALL FILL MATERIAL TO BE APPROVED BY OWNER'S GEOTECHNICAL ENGINEER.

EROSION AND SEDIMENT CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL DETAILS SHALL BE IN ACCORDANCE WITH NY STATE STANDARD AND SPECIFICATIONS AS WELL AS APPENDIX M OF THE PROJECT SWPPP.
- ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE SOIL RESTORATION REQUIREMENTS IN TABLE 5.3 OF THE DESIGN MANUAL.
- ALL TREES OUTSIDE OF TREE REMOVAL LIMITS SHALL REMAIN IN PLACE.
- EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) OUTLINED IN THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE IMPLEMENTED DURING DECOMMISSIONING OF THE PROJECT. SILT FENCES, COMPOST FILTER SOCK, STRAW BALES, EROSION CONTROL BLANKETS (ECB) OR OTHER SIMILAR STORMWATER STRUCTURES WILL BE INSTALLED, AS NEEDED, TO CONTROL SOIL EROSION AND SEDIMENTATION WHILE RE-ESTABLISHING VEGETATION IN SEEDED AREAS. UPON COMPLETION OF RESTORATION AND RECLAMATION ACTIVITIES, ANY TEMPERATURE STRUCTURES, SILT FENCES OR BARRIERS USED AS EROSION AND SEDIMENT CONTROLS DURING DECOMMISSIONING, RESTORATION AND RESEEDING ACTIVITIES WILL BE REMOVED WHEN THEY ARE NO LONGER NEEDED.

| Species | % Mi |
|-------------------------------------|------|
| <i>Aquilegia canadensis</i> | 4 |
| <i>Baptisia tinctoria</i> | 2 |
| <i>Chamaecrista fasciculata</i> | 3 |
| <i>Conoclinium coelestinum</i> | 7 |
| <i>Coreopsis lanceolata</i> | 6 |
| <i>Elymus virginicus</i> | 17 |
| <i>Eragrostis spectabilis</i> | 10 |
| <i>Monarda punctata</i> | 3 |
| <i>Penstemon hirsutus</i> | 3 |
| <i>Pycnanthemum tenuifolium</i> | 1 |
| <i>Rudbeckia fulgida</i> | 3 |
| <i>Rudbeckia hirta</i> | 6 |
| <i>Schi achyrium scoparium</i> | 10 |
| <i>Solidago caesia</i> | 2 |
| <i>Solidago nemoralis</i> | 2 |
| <i>Symphyotrichum laeve</i> | 7 |
| <i>Symphyotrichum oblongifolium</i> | 7 |
| <i>Tradescantia ohiensis</i> | 4 |
| <i>Zi ia aurea</i> | 3 |

4 MONTH CONSTRUCTION PERIOD

| ITEM NO. | DESCRIPTION | MONTH OF CONSTRUCTION | | | |
|----------|---|-----------------------|---|---|---|
| | | 1 | 2 | 3 | 4 |
| 1 | SILT FENCE INSTALLATION | █ | | | |
| 2 | CLEARING AND GRUBBING | █ | | | |
| 3 | UTILITY CONSTRUCTION | | █ | █ | |
| 4 | TEMPORARY SEEDING | | █ | █ | |
| 5 | FINAL SEEDING AND REMOVAL OF TEMPORARY STRUCTURES | | | | █ |
| 6 | MAINTAIN SOIL AND EROSION CONTROL STRUCTURES | | █ | █ | █ |

POST CONSTRUCTION MAINTENANCE

- GRAVEL ACCESS ROAD
 INSPECT ACCESS ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED.
- CHAIN LINK FENCE
 CHAIN LINK FENCE SHALL BE INSPECTED ON AN ANNUAL BASIS. ANY FABRIC THAT HAS BEEN DAMAGED SHALL BE REPLACED.
- VEGETATION
 ALL SEEDED AREAS WITHIN THE SOLAR ARRAY SHALL BE MAINTAINED BY MOWING A MAXIMUM OF TWICE PER YEAR, IN LATE SPRING AND EARLY FALL, FOR THE LIFE OF THE SOLAR ARRAYS. THE OWNER SHALL DO A YEARLY EVALUATION OF THE TREES AND REPLACE ALL TREES THAT HAVE DIED THROUGH THE LIFE OF THE SOLAR ARRAYS. MOWING DECK HEIGHT MUST BE SET 6"-8" FROM GROUND.

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| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|----------|-------|-------------------|--------|-------|
| D | 5/11/22 | RCH | ISSUED FOR PERMIT | EMC | CC |
| C | 2/4/22 | MAA | ISSUED FOR PERMIT | EMJ | CC |
| B | 10/29/21 | DOW | ISSUED FOR PERMIT | SEP | CC |
| A | 10/14/21 | DOW | ISSUED FOR PERMIT | SEP | CC |

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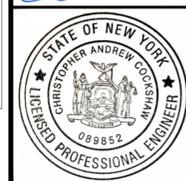
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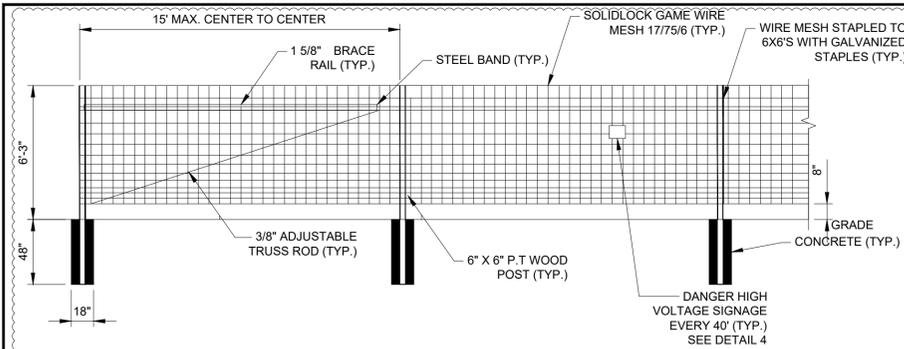
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Title
**GREYCOURT ROAD SOLAR PROJECT
 GENERAL NOTES**

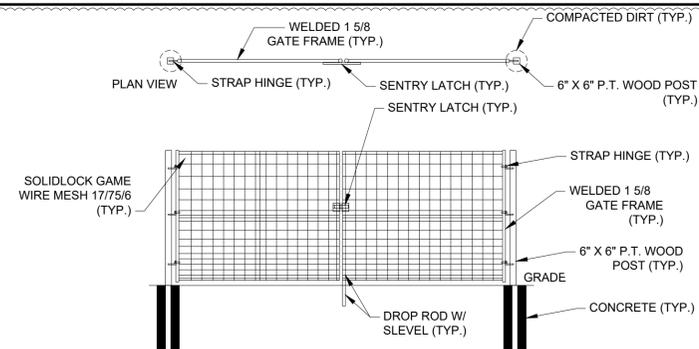
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| Designed | EMJ | Check | EMJ |
| Drawn | DOW | Approved | CC |
| | SEP | | |
| Scale at ANSI D | N/A | Date | 2/4/2022 |
| | | Rev | D |
| Drawing Number | C-401 | | |





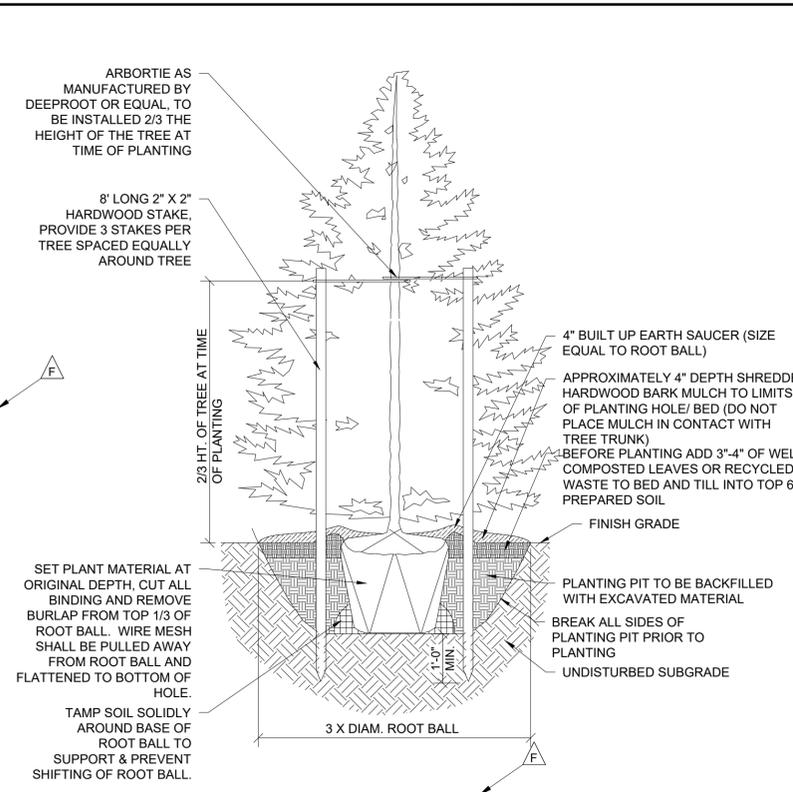
- NOTES:
- ALL DIMENSIONS TO BE VERIFIED IN THE FIELD.
 - POST - 6"X6" PRESSURE TREATED WOOD.
 - BRACE RAIL - 1 5/8" OD GALVANIZED STEEL PIPE, WT-40 1.84 LBS./PF.
 - WIRE MESH - 12.5 GAUGE SOLIDLOCK GAME WIRE FENCE 17/75/6, FIXED KNOT.
 - FOOTINGS - 18" X 48" DEEP HOLE, FILLED WITH CONCRETE
 - FINISH - ALL METAL COMPONENTS TO BE GALVANIZED STEEL
 - ALTERNATE EQUIVALENT MUST BE PRE-APPROVED BY ENGINEER-OF-RECORD PRIOR TO CONSTRUCTION.

1 6'-3" HIGH FIXED KNOT SOLIDLOCK GAME WIRE FENCE
SCALE: NTS



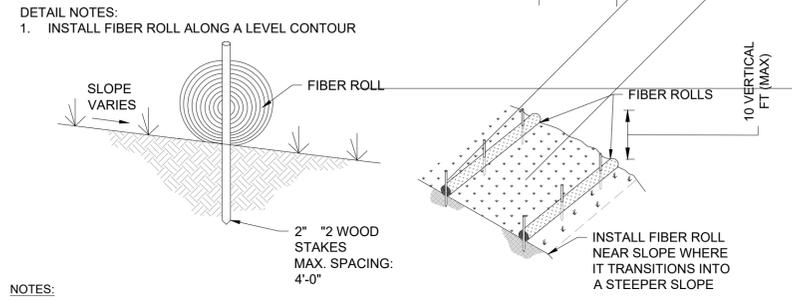
- NOTES:
- ALL DIMENSIONS TO BE VERIFIED IN THE FIELD.
 - POST - 6"X6" PRESSURE TREATED WOOD.
 - GATE FRAME - WELDED 1 5/8" OD GALVANIZED STEEL PIPE, WT-40 1.84 LBS./PF.
 - WIRE MESH - 12.5 GAUGE SOLIDLOCK GAME WIRE FENCE 17/75/6, FIXED KNOT.
 - FOOTINGS - 18" X 48" DEEP HOLE, FILLED WITH CONCRETE
 - FINISH - ALL METAL COMPONENTS TO BE GALVANIZED STEEL
 - ALTERNATE EQUIVALENT MUST BE PRE-APPROVED BY ENGINEER-OF-RECORD PRIOR TO CONSTRUCTION.

2 6'-3" HIGH X 24' WIDE GAME WIRE DOUBLE SWING GATE
SCALE: NTS



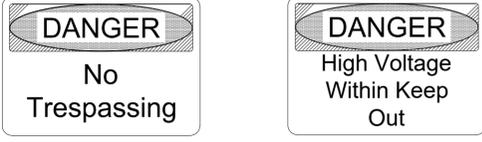
- CONIFEROUS TREE PLANTING NOTES:
- FOR CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOL TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL. THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
 - INCORPORATE COMMERCIALY PREPARED MYCORRHIZAE SPORES IN THE SOIL IMMEDIATELY AROUND THE ROOTBALL AT RATES SPECIFIED BY THE MANUFACTURER.
 - THOROUGHLY SOAK THE TREE ROOTBALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AS PER MAINTENANCE SPECIFICATIONS.
 - NORTH SIDE OF TREE TO BE IDENTIFIED ON TREE TRUNK WITH SEMI-PERMANANT MARKING POINT PRIOR TO DIGGING. NORTH ORIENTATION OF TREE TO BE MAINTAINED. ANY TREE WITHOUT NORTH ORIENTATION MARK WILL BE REJECTED BY PROJECT PROFESSIONAL.
 - ROOT FLAIR/ COLLAR IS TO BE EXPOSED AT TIME OF PLANTING. CONTRACTOR TO REMOVE EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLAIR/ COLLAR. ROOT FLAIR/ COLLAR TO BE VISIBLE AFTER PLANTING.
 - WHEN PLANTING HOLE 1/2 FULL OF PLANTING SOIL THOROUGHLY SOAK PLANTING HOLE WITH WATER UNTIL SOIL IS TOTALLY SATURATED AND WILL NOT ABSORB ADDITIONAL WATER. THEN FILL WITH SOIL TO FINISH GRADE. ESTABLISH EARTH SAUCER, AND AGAIN THOROUGHLY SOAK.

8 CONIFEROUS TREE PLANTING DETAIL
SCALE: NTS



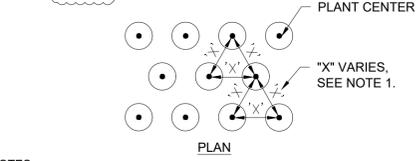
- DETAIL NOTES:
- INSTALL FIBER ROLL ALONG A LEVEL CONTOUR
- NOTES:
- LOCATE THE FIBER ROLLS DOWN SLOPE OF ALL DISTURBED SOIL (CUT AND FILL) AREAS TO CONTROL SEDIMENT TRANSPORT AND REDUCE OVERLAND FLOW VELOCITIES.
 - FIBER ROLLS SHALL BE ORIENTED PERPENDICULAR TO THE SLOPE (PARALLEL TO THE CONTOUR LINES ILLUSTRATED ON THE PLANS).
 - FIBER ROLLS SHALL BE SPACED HORIZONTALLY TO OCCUR EVERY TEN (10) VERTICAL FEET OF SLOPE.
 - LOCATIONS OF THE FIBER ROLLS ILLUSTRATED ON THE PLANS ARE CONCEPTUAL AND MAY BE FIELD ADJUSTED AS REQUIRED TO MATCH THE SOIL DISTURBANCES. THE INTENT IS TO LOCATE THE 1ST/ ROLL IMMEDIATELY DOWN SLOPE OF THE DISTURBED AREA AND TO REPEAT THE ROLL INSTALLATIONS EVERY 10 VERTICAL FEET OF SLOPE AS REQUIRED TO MATCH THE FIELD REQUIREMENTS.

3 SLOPE PROTECTION DETAIL
SCALE: NTS



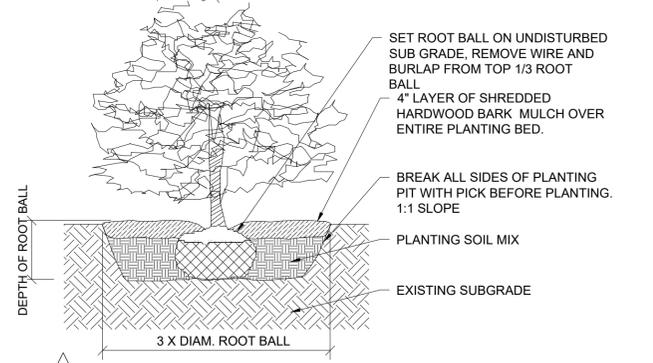
- NOTES:
- SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
 - SIGNS SHALL BE 20" WIDE BY 14" HIGH.
 - SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES, SECURELY ATTACHED TO THE SECURITY FENCE, ADJACENT TO THE ADDRESS SIGN NEAR THE SITE ENTRANCE.
 - SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.

4 WARNING SIGN DETAILS
SCALE: NTS

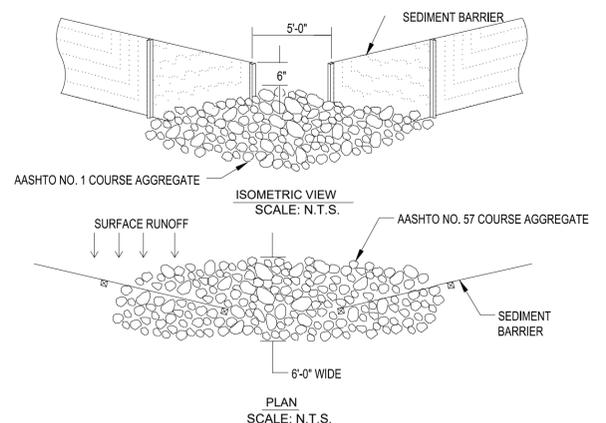


- NOTES:
- SPACING VARIES FOR VEGETATIVE BUFFER TYPE A AND TYPE B, PER LANDSCAPE NOTES, SHEET C-403.
 - PRIOR TO PLANTING, PLANTS TO BE REMOVED FROM CONTAINER AND ROOTS GENTLY COMBED OUT.

6 PLANTING SPACING DETAIL
SCALE: NTS

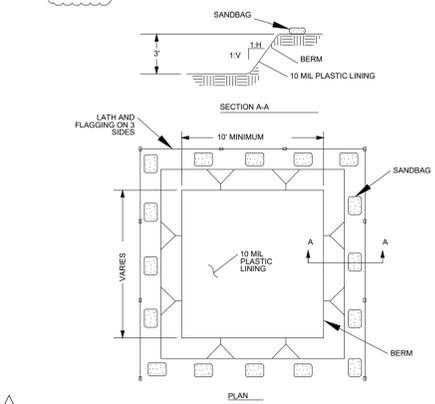


9 SHRUB PLANTING DETAIL
SCALE: NTS

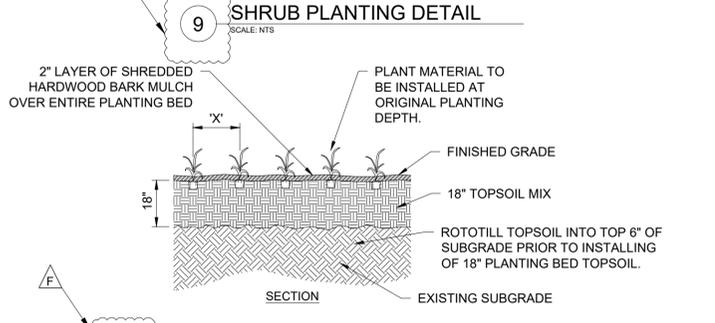


- NOTES:
- ROCK FILTER OUTLETS SHALL BE PLACED ALONG SEDIMENT BARRIERS AS SHOWN ON THE PLAN. THE ROCK FILTER OUTLET IS NOT INTENDED TO BE PLACED IN STREAMS, RIVERS, CREEKS OR DITCHES WHICH NORMALLY HAVE FLOWING WATER.
 - ONCE THE DISTURBED AREA IS STABILIZED, THE ROCK FILTER OUTLET SHALL BE REMOVED AND ANY DISTURBED AREAS CAUSED BY REMOVAL SHALL BE RETURNED TO ORIGINAL CONDITION AND REVEGETATED.
 - THE ROCK UTILIZED IN THE ROCK FILTER OUTLET SHALL BE CLEANED OR REPLACED WHEN THE ACCUMULATION OF SEDIMENT IS SUCH THAT THE ROCK FILTER OUTLET CAN NOT EFFECTIVELY FILTER DISCHARGE WATER.
 - INSTALL AASHTO NO. 1 COURSE AGGREGATE AT THE OUTLET SIDE OF THE SEDIMENT BARRIER AS SHOWN IN THE DETAIL. AFTER INSTALLING AASHTO NO. 1 COURSE AGGREGATE, INSTALL AASHTO NO. 57 COURSE AGGREGATE AT THE INLET SIDE OF THE SEDIMENT BARRIER TO CREATE AN ADEQUATE FILTER STONE FACE FOR THE OUTLET STRUCTURE.

5 ROCK FILTER OUTLET
SCALE: NTS



7 CONCRETE WASHOUT PIT
SCALE: NTS



10 GRASSES/ HERBACEOUS PLANTING DETAIL
SCALE: NTS

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
|-----|----------|-------|-------------------|--------|-------|
| F | 5/11/22 | RCH | ISSUED FOR PERMIT | EMC | CC |
| E | 4/8/22 | JLL | ISSUED FOR PERMIT | EMC | CC |
| D | 2/4/22 | MAA | ISSUED FOR PERMIT | EMJ | CC |
| C | 12/28/21 | DOW | ISSUED FOR PERMIT | EMJ | CC |
| B | 10/29/21 | DOW | ISSUED FOR PERMIT | SEP | CC |
| A | 10/14/21 | DOW | ISSUED FOR PERMIT | SEP | CC |

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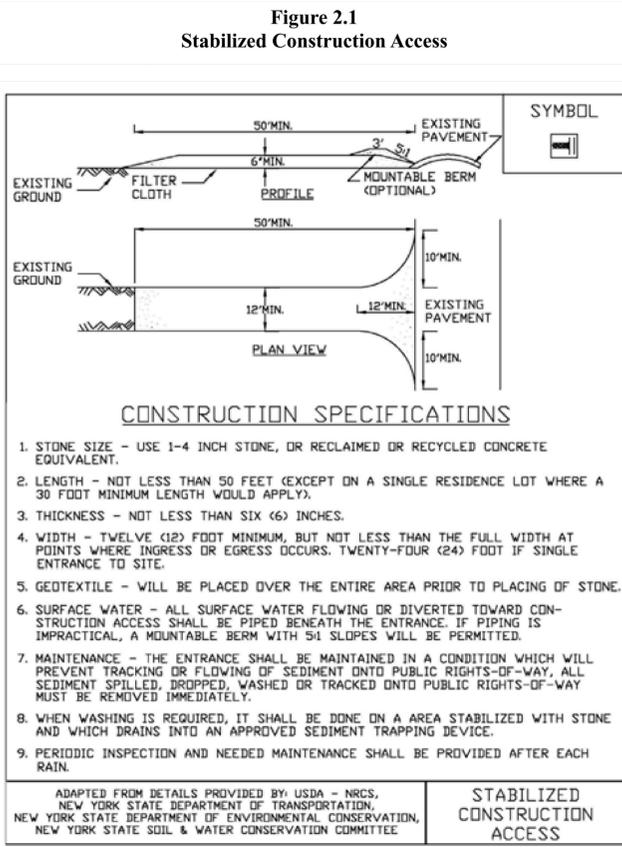
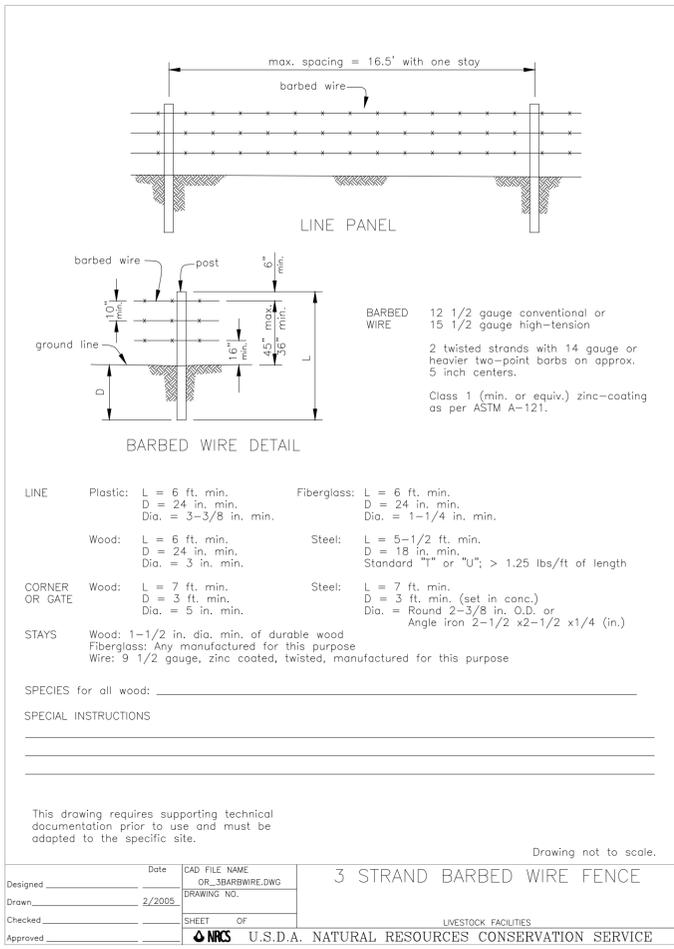
Client
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Title
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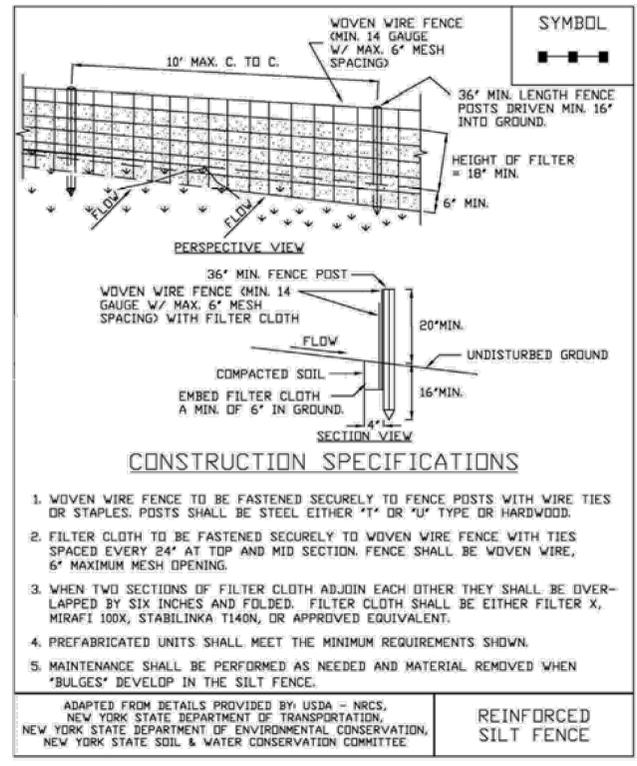
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| Designed | EMJ | Check | EMJ |
| Drawn | DOW | Approved | CC |
| Scale at ANSI D | N/A | Date | 2/4/2022 |
| Rev | F | Drawing Number | C-402 |

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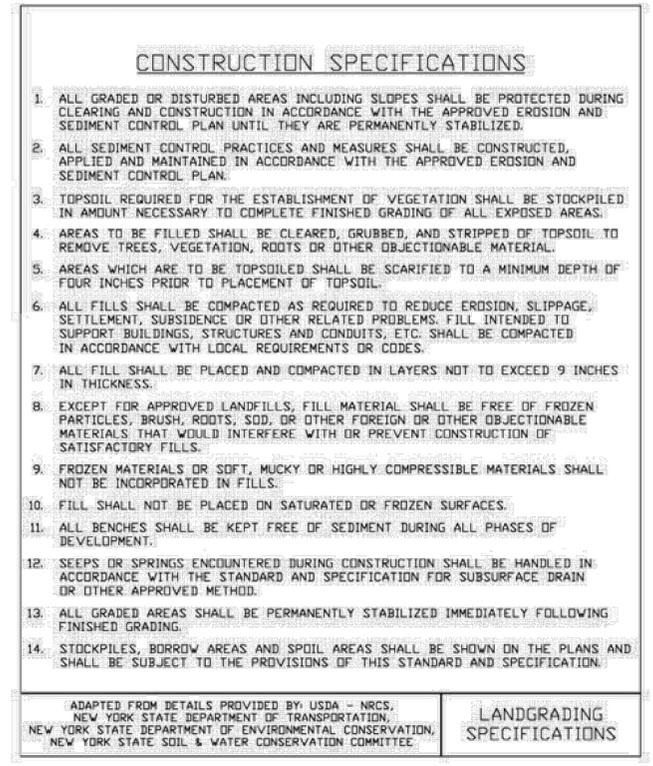
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New York State Standards and Specifications For Erosion and Sediment Control Page 2.31 November 2016



November 2016 Page 5.56 New York State Standards and Specifications For Erosion and Sediment Control



November 2016 Page 4.28 New York State Standards and Specifications For Erosion and Sediment Control

Table 4.7 - Topsoil Application Depth

| Site Conditions | Intended Use | Minimum Topsoil Depth |
|--|-----------------------|-----------------------|
| 1. Deep sand or loamy sand | Mowed lawn | 6 in. |
| | Tall legumes, unmowed | 2 in. |
| | Tall grass, unmowed | 1 in. |
| 2. Deep sandy loam | Mowed lawn | 5 in. |
| | Tall legumes, unmowed | 2 in. |
| | Tall grass, unmowed | none |
| 3. Six inches or more: silt loam, clay loam, loam, or silt | Mowed lawn | 4 in. |
| | Tall legumes, unmowed | 1 in. |
| | Tall grass, unmowed | 1 in. |

| Rev | Date | Drawn | Description | Ch'kd | App'd |
|-----|----------|-------|-------------------|-------|-------|
| C | 4/8/22 | DOW | ISSUED FOR PERMIT | EMC | CC |
| B | 10/29/21 | DOW | ISSUED FOR PERMIT | SEP | CC |
| A | 10/14/21 | DOW | ISSUED FOR PERMIT | SEP | CC |

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| Designed | EMJ | Check | EMJ |
|-----------------|------------|----------|-----|
| Drawn | DOW | Approved | CC |
| Scale at ANSI D | SEP | Date | Rev |
| NA | 10/29/2021 | | C |
| Drawing Number | C-403 | | |

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STANDARD AND SPECIFICATIONS FOR PERMANENT CONSTRUCTION AREA PLANTING



Definition & Scope

Establishing permanent grasses with other forbs and/or shrubs to provide a minimum 80% perennial vegetative cover on areas disturbed by construction and critical areas to reduce erosion and sediment transport. Critical areas may include but are not limited to steep excavated cut or fill slopes as well as eroding or denuded natural slopes and areas subject to erosion.

Conditions Where Practice Applies

This practice applies to all disturbed areas void of, or having insufficient, cover to prevent erosion and sediment transport. See additional standards for special situations such as sand dunes and sand and gravel pits.

Criteria

All water control measures will be installed as needed prior to final grading and seedbed preparation. Any severely compacted sections will require chiseling or disking to provide an adequate rooting zone, to a minimum depth of 12", see Soil Restoration Standard. The seedbed must be prepared to allow good soil to seed contact, with the soil not too soft and not too compact. Adequate soil moisture must be present to accomplish this. If surface is powder dry or sticky wet, postpone operations until moisture changes to a favorable condition. If seeding is accomplished within 24 hours of final grading, additional scarification is generally not needed, especially on ditch or stream banks. Remove all stones and other debris from the surface that are greater than 4 inches, or that will interfere with future mowing or maintenance.

Soil amendments should be incorporated into the upper 2 inches of soil when feasible. The soil should be tested to determine the amounts of amendments needed. Apply

ground agricultural limestone to attain a pH of 6.0 in the upper 2 inches of soil. If soil must be fertilized before results of a soil test can be obtained to determine fertilizer needs, apply commercial fertilizer at 600 lbs. per acre of 5-5-10 or equivalent. If manure is used, apply a quantity to meet the nutrients of the above fertilizer. This requires an appropriate manure analysis prior to applying to the site. Do not use manure on sites to be planted with birdsfoot trefoil or in the path of concentrated water flow.

Seed mixtures may vary depending on location within the state and time of seeding. Generally, warm season grasses should only be seeded during early spring, April to May. These grasses are primarily used for vegetating excessively drained sands and gravels. See Standard and Specification for Sand and Gravel Mine Reclamation. Other grasses may be seeded any time of the year when the soil is not frozen and is workable. When legumes such as birdsfoot trefoil are included, spring seeding is preferred. See Table 4.4, "Permanent Construction Area Planting Mixture Recommendations" for additional seed mixtures.

| General Seed Mix: | Variety | lbs./acre | lbs/1000 sq. ft. |
|----------------------------------|---------------------------------------|----------------|------------------|
| Red Clover ¹ OR | Acclaim, Rally, Red Head II, Renegade | 8 ² | 0.20 |
| Common white clover ¹ | Common | 8 | 0.20 |
| PLUS | | | |
| Creeping Red Fescue | Common | 20 | 0.45 |
| PLUS | | | |
| Smooth Bromegrass OR | Common | 2 | 0.05 |
| Ryegrass (perennial) | Pennfine/Linn | 5 | 0.10 |

¹ add inoculant immediately prior to seeding
² Mix 4 lbs each of Empire and Pardee OR 4 lbs of Birdsfoot and 4 lbs white clover per acre. All seeding rates are given for Pure Live Seed (PLS)

Pure Live Seed, or (PLS) refers to the amount of live seed in a lot of bulk seed. Information on the seed bag label includes the type of seed, supplier, test date, source of seed, purity, and germination. Purity is the percentage of pure seed. Germination is the percentage of pure seed that will produce normal plants when planted under favorable conditions.

To compute Pure Live Seed multiply the "germination times the "purity" and divide that by 100 to get Pure Live Seed.

$$\text{Pure Live Seed (PLS)} = \frac{\% \text{ Germination} \times \% \text{ Purity}}{100}$$

For example, the PLS for a lot of Kentucky Blue grass with 75% purity and 96% germination would be calculated as follows:

$$\frac{(96) \times (75)}{100} = 72\% \text{ Pure Live Seed}$$

For 10lbs of PLS from this lot =

$$\frac{10}{0.72} = 13.9 \text{ lbs}$$

Therefore, 13.9 lbs of seed is the actual weight needed to meet 10lbs PSL from this specific seed lot.

Time of Seeding: The optimum timing for the general seed mixture is early spring. Permanent seedings may be made any time of year if properly mulched and adequate moisture is provided. Late June through early August is not a good time to seed, but may facilitate covering the land without additional disturbance if construction is completed. Portions of the seeding may fail due to drought and heat. These areas may need reseeding in late summer/fall or the following spring.

Method of seeding: Broadcasting, drilling, cultipack type seeding, or hydroseeding are acceptable methods. Proper soil to seed contact is key to successful seedings.

Mulching: Mulching is essential to obtain a uniform stand of seeded plants. Optimum benefits of mulching new seedings are obtained with the use of small grain straw applied at a rate of 2 tons per acre, and anchored with a netting or tackifier. See the Standard and Specifications for Mulching for choices and requirements.

Irrigation: Watering may be essential to establish a new seeding when a drought condition occurs shortly after a new seeding emerges. Irrigation is a specialized practice and care must be taken not to exceed the application rate for the soil or subsoil. When disconnecting irrigation pipe, be sure pipes are drained in a safe manor, not creating an erosion concern.



80% Perennial Vegetative Cover



50% Perennial Vegetative Cover

STANDARD AND SPECIFICATIONS FOR TOPSOILING



Definition & Scope

Spreading a specified quality and quantity of topsoil materials on graded or constructed subsoil areas to provide acceptable plant cover growing conditions, thereby reducing erosion; to reduce irrigation water needs; and to reduce the need for nitrogen fertilizer application.

Conditions Where Practice Applies

Topsoil is applied to subsoils that are droughty (low available moisture for plants), stony, slowly permeable, salty or extremely acid. It is also used to backfill around shrub and tree transplants. This standard does not apply to wetland soils.

Design Criteria

1. Preserve existing topsoil in place where possible, thereby reducing the need for added topsoil.
2. Conserve by stockpiling topsoil and friable fine textured subsoils that must be stripped from the excavated site and applied after final grading where vegetation will be established. Topsoil stockpiles must be stabilized. Stockpile surfaces can be stabilized by vegetation, geotextile or plastic covers. This can be aided by orientating the stockpile lengthwise into prevailing winds.
3. Refer to USDA Natural Resource Conservation Service soil surveys or soil interpretation record sheets for further soil texture information for selecting appropriate design topsoil depths.

Site Preparation

1. As needed, install erosion and sediment control practices such as diversions, channels, sediment traps, and stabilizing measures, or maintain if already installed.
2. Complete rough grading and final grade, allowing for depth of topsoil to be added.
3. Scarify all compact, slowly permeable, medium and fine textured subsoil areas. Scarify at approximately right angles to the slope direction in soil areas that are steeper than 5 percent. Areas that have been overly compacted shall be decompacted in accordance with the Soil Restoration Standard.
4. Remove refuse, woody plant parts, stones over 3 inches in diameter, and other litter.

Topsoil Materials

1. Topsoil shall have at least 6 percent by weight of fine textured stable organic material, and no greater than 20 percent. Muck soil shall not be considered topsoil.
2. Topsoil shall have not less than 20 percent fine textured material (passing the NO. 200 sieve) and not more than 15 percent clay.
3. Topsoil treated with soil sterilants or herbicides shall be so identified to the purchaser.
4. Topsoil shall be relatively free of stones over 1 1/2 inches in diameter, trash, noxious weeds such as nut sedge and quackgrass, and will have less than 10 percent gravel.
5. Topsoil containing soluble salts greater than 500 parts per million shall not be used.
6. Topsoil may be manufactured as a mixture of a mineral component and organic material such as compost.

Application and Grading

1. Topsoil shall be distributed to a uniform depth over the area. It shall not be placed when it is partly frozen, muddy, or on frozen slopes or over ice, snow, or standing water puddles.
2. Topsoil placed and graded on slopes steeper than 5 percent shall be promptly fertilized, seeded, mulched, and stabilized by "tracking" with suitable equipment.
3. Apply topsoil in the amounts shown in Table 4.7 below:

STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING



Definition & Scope

Providing temporary erosion control protection to disturbed areas and/or localized critical areas for an interim period by covering all bare ground that exists as a result of construction activities or a natural event. Critical areas may include but are not limited to steep excavated cut or fill slopes and any disturbed, denuded natural slopes subject to erosion.

Conditions Where Practice Applies

Temporary seedings may be necessary on construction sites to protect an area, or section, where final grading is complete, when preparing for winter work shutdown, or to provide cover when permanent seedings are likely to fail due to mid-summer heat and drought. The intent is to provide temporary protective cover during temporary shutdown of construction and/or while waiting for optimal planting time.

Criteria

Water management practices must be installed as appropriate for site conditions. The area must be rough graded and slopes physically stable. Large debris and rocks are usually removed. Seedbed must be seeded within 24 hours of disturbance or scarification of the soil surface will be necessary prior to seeding.

Fertilizer or lime are not typically used for temporary seedings.

IF: Spring or summer or early fall, then seed the area with ryegrass (annual or perennial) at 30 lbs. per acre (Approximately 0.7 lb./1000 sq. ft. or use 1 lb./1000 sq. ft.).

IF: Late fall or early winter, then seed Certified 'Aroostook' winter rye (cereal rye) at 100 lbs. per acre (2.5 lbs./1000 sq. ft.).

Any seeding method may be used that will provide uniform application of seed to the area and result in relatively good soil to seed contact.

Mulch the area with hay or straw at 2 tons/acre (approx. 90 lbs./1000 sq. ft. or 2 bales). Quality of hay or straw mulch allowable will be determined based on long term use and visual concerns. Mulch anchoring will be required where wind or areas of concentrated water are of concern. Wood fiber hydromulch or other sprayable products approved for erosion control (nylon web or mesh) may be used if applied according to manufacturers' specification. Caution is advised when using nylon or other synthetic products. They may be difficult to remove prior to final seeding and can be a hazard to young wildlife species.

STANDARD AND SPECIFICATIONS FOR SOIL RESTORATION



2. Soil restoration will be completed in accordance with Table 4.6 on page 4.53.

Specification for Full Soil Restoration

During periods of relatively low to moderate subsoil moisture, the disturbed subsoils are returned to rough grade and the following Soil Restoration steps applied:

1. Apply 3 inches of compost over subsoil. The compost shall be well decomposed (matured at least 3 months), weed-free, organic matter. It shall be aerobically composted, possess no objectionable odors, and contain less than 1%, by dry weight, of man-made foreign matter. The physical parameters of the compost shall meet the standards listed in Table 5.2 - Compost Standards Table, except for "Particle Size" 100% will pass the 1/2" sieve. **Note: All biosolids compost produced in New York State (or approved for importation) must meet NYS DEC's 6 NYCRR Part 360 (Solid Waste Management Facilities) requirements. The Part 360 requirements are equal to or more stringent than 40 CFR Part 503 which ensure safe standards for pathogen reduction and heavy metals content.**



2. Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor mounted disc, or tiller, to mix and circulate air and compost into the subsoil.
3. Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.
4. Apply topsoil to a depth of 6 inches.
5. Vegetate as required by the seeding plan. Use appropriate ground cover with deep roots to maintain the soil structure.
6. Topsoil may be manufactured as a mixture of a mineral component and organic material such as compost.

Decompaction

At the end of the project an inspector should be able to push a 3/8" metal bar 12 inches into the soil just with body weight. This should not be performed within the drip line of any existing trees or over utility installations that are within 24 inches of the surface.

Maintenance

Keep the site free of vehicular and foot traffic or other weight loads. Consider pedestrian footpaths.

Table 4.6
AG & Markets Soil Restoration Requirements

| Type of Soil Disturbance | Soil Restoration Requirement | Comments/Examples |
|---|--|---|
| No soil disturbance | Restoration not permitted | Preservation of Natural Features |
| Minimal soil disturbance | Restoration not required | Clearing and grubbing |
| Areas where topsoil is stripped only - no change in grade | HSG A&B | HSG C&D |
| | Apply 6 inches of topsoil | Aerate* and apply 6 inches of topsoil |
| Areas of cut or fill | HSG A&B | HSG C&D |
| | Aerate* and apply 6 inches of topsoil | Apply full Soil Restoration** |
| Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls) | Apply full Soil Restoration (decompaction and compost enhancement) | |
| Areas where Runoff Reduction and/or Infiltration practices are applied | Restoration not required, but may be applied to enhance the reduction specified for appropriate practices. | Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area |
| Redevelopment projects | Soil Restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area. | |

* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.
 ** Per "Deep Ripping and De-compaction, DEC 2008".

Definition & Scope

The decompaction of areas of a development site or construction project where soils have been disturbed to recover the original properties and porosity of the soil; thus providing a sustainable growth medium for vegetation, reduction of runoff and filtering of pollutants from stormwater runoff.

Conditions Where Practice Applies

Soil restoration is to be applied to areas whose heavy construction traffic is done and final stabilization is to begin. This is generally applied in the cleanup, site restoration, and landscaping phase of construction followed by the permanent establishment of an appropriate ground cover to maintain the soil structure. Soil restoration measures should be applied over and adjacent to any runoff reduction practices to achieve design performance.



Design Criteria

1. Soil restoration areas will be designated on the plan views of areas to be disturbed.

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| Title GREYCOURT ROAD SOLAR PROJECT CIVIL DETAILS | | | | |
| TAX ID: 3-1-72 | | | | |
| PRELIMINARY NOT FOR CONSTRUCTION REPLACE WITH ENGINEERS STAMP AT CONSTRUCTION AND/OR FABRICATION | Designed | EMJ | Check | EMJ |
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| C-404 | | | | |

GENERAL NOTES:

- USE OF THIS DETAIL/CRITERION IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE, ETC.).
- LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
- REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
- REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. COMPACT TO THE DEGREE OF THE NATIVE INSITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
- REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- ROADWAY WIDTH TO BE DETERMINED BY CLIENT.
- THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHOULD NOT EXCEED 6% THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
- LIMITED USE PERVIOUS ACCESS ROAD IS NOT INTENDED TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ACCESS TO SEDIMENT TRACKING. THIS SPECIFICATION IS TO BE DEVELOPED FOR POST-CONSTRUCTION USE. SOIL RESTORATION PRACTICES MAY BE APPLICABLE TO RESTORE CONSTRUCTION RELATED COMPACTION TO PRE-EXISTING CONDITIONS AND SHOULD BE VERIFIED BY SOIL PENETROMETER READINGS. THE PENETROMETER READINGS SHALL BE COMPARED TO THE RESPECTIVE RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION. EVERY 100 LINEAR FEET ALONG THE PROPOSED ROADWAY.
- TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE LIMITED USE PERVIOUS ACCESS ROAD, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF THE LIMITED USE PERVIOUS ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STANDARD NEW YORK STATE STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED AND UTILIZED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD FROM ANY LOCATION ON, OR OFF SITE. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
- THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION.
- PROJECTS SHOULD AVOID INSTALLATION OF THE LIMITED USE PERVIOUS ACCESS ROAD IN POORLY DRAINED AREAS, HOWEVER IF NO ALTERNATIVE LOCATION IS AVAILABLE, THE PROJECT SHALL UTILIZE WOVEN GEOTEXTILE MATERIAL AS DETAILED IN FOLLOWING NOTES.
- THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATED FLOW COULD NOT BE AVOIDED. THE INTENTION OF THIS DESIGN IS TO MINIMIZE ALTERATIONS TO HYDROLOGY, HOWEVER WHEN DEALING WITH 5%-15% GRADES NOT PARALLEL TO THE CONTOUR, A ROADSIDE DITCH MAY BE REQUIRED. THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED WATERWAYS AND VEGETATED WATERWAYS ARE APPLICABLE FOR SIZING AND STABILIZATION. DIMENSIONS FOR THE GRASSED WATERWAY SPECIFICATION WOULD BE DESIGNED FOR PROJECT SPECIFIC HYDROLOGIC RUNOFF CALCULATIONS AND A SEPARATE DETAIL FOR THE SPECIFIC GRASSED WATERWAY WOULD BE INCLUDED IN THIS PRACTICE. RUNOFF DISCHARGES WILL BE SUBJECT TO THE OUTLET REQUIREMENTS OF THE REFERENCED STANDARD. INCREASED POST-DEVELOPMENT RUNOFF FROM THE ASSOCIATED ROADSIDE DITCH MAY REQUIRE ADDITIONAL PRACTICES TO ATTENUATE RUNOFF TO PRE-DEVELOPMENT CONDITIONS.
- IF A ROADSIDE DITCH IS NOT UTILIZED TO CAPTURE RUNOFF FROM THE ACCESS ROAD, THE PERVIOUS ACCESS ROAD WILL HAVE A WELL-ESTABLISHED PERENNIAL VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION (I.E. BUFFER), 20 FEET WIDE AND PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THIS VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.
- THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USE PERVIOUS ACCESS ROAD IN THEIR SITE ASSESSMENT/HYDROLOGY ANALYSIS. IF THE HYDROLOGY ANALYSIS SHOWS THAT THE HYDROLOGY HAS BEEN ALTERED FROM PRE- TO POST-DEVELOPMENT CONDITIONS (SEE APPENDIX A OF GP-0-15-002 FOR THE DEFINITION OF "ALTER THE HYDROLOGY..."), THE DESIGN MUST INCLUDE THE NECESSARY DETENTION/RETENTION PRACTICES TO ATTENUATE THE RATES (10 AND 100 YEAR EVENTS) TO PRE-DEVELOPMENT CONDITIONS.

GEOGRID MATERIAL NOTES:

- THE GEOGRID, OR COMPARABLE PRODUCT, IS INTENDED FOR USE FOR ALL CONDITIONS, IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE ACCESS LOADS.
- GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYS DOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
- GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
- IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
- REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
- LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYS DOT ITEM 703-02 SPECIFICATIONS.

BASIS OF DESIGN: TENCATE MIRAFI BXG110 GEOGRIDS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA; 800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

GEOWEB MATERIAL NOTES:

- THE GEOWEB, OR COMPARABLE PRODUCT, IS SUGGESTED FOR USE ON ROAD PROFILES EXCEEDING 10% THE GEOWEB PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 2% NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS.
- GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYS DOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
- GEOWEB SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL. GEOWEB SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
- LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE, SIZE 3A, MEETING NYS DOT ITEM 703-02 SPECIFICATIONS.
- THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE I-SLOTS FOR INTERLEAF AND END CONNECTIONS. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER INSTALLATION, TYING AND CONNECTIONS.

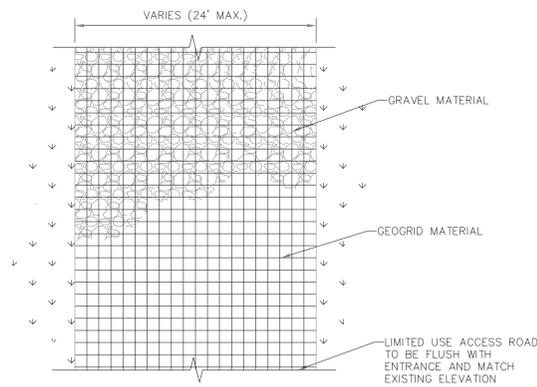
BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFO@PRESTOGEOWEB.COM; WWW.PRESTOGEOWEB.COM

WOVEN GEOTEXTILE MATERIAL NOTES:

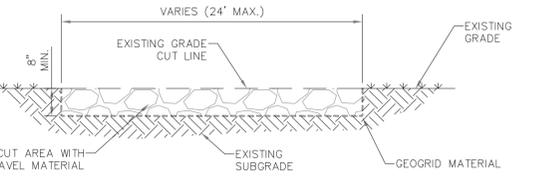
- SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OF C OR D, OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST, OR GEOTECHNICAL DATA.
- THE CONCERN FOR POTENTIAL REDUCTION OF NATIVE INFILTRATION RATES DUE TO THE GEOTEXTILE MATERIAL WOULD NOT BE A SIGNIFICANT CONCERN IN POORLY DRAINED SOILS WHERE SEGREGATION OF PERVIOUS STONE AND NATIVE MATERIALS IS CRUCIAL FOR LONG TERM OPERATION AND MAINTENANCE.

BASIS OF DESIGN: TENCATE MIRAFI RSI-SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA; 800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

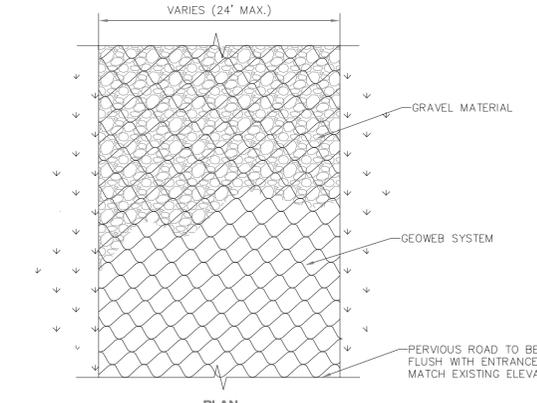
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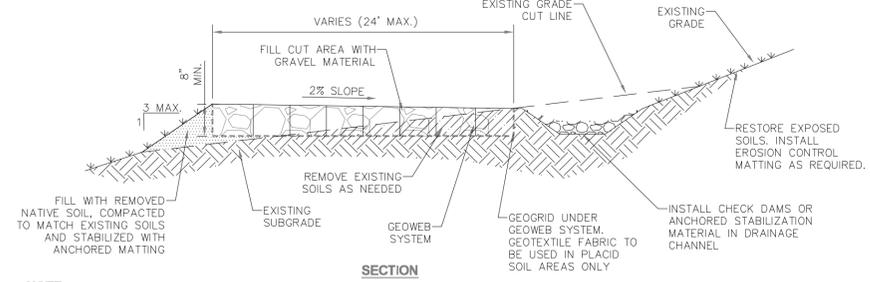
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SCALE: N.T.S.



3 LIMITED USE PERVIOUS ACCESS ROAD - 10% AND GREATER SLOPES
SCALE: N.T.S.

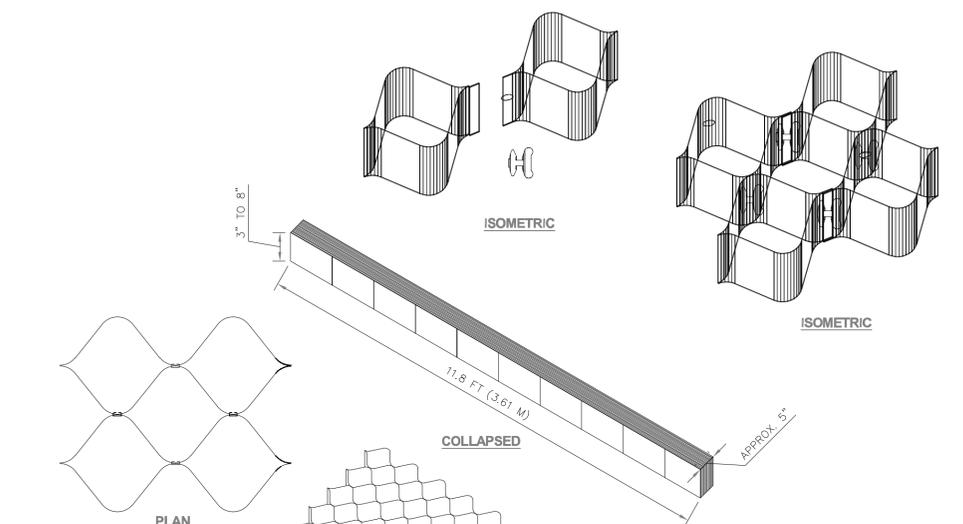


3 LIMITED USE PERVIOUS ACCESS ROAD - 10% AND GREATER SLOPES
SCALE: N.T.S.



- NOTE:**
- THE ROADSIDE DITCH SHALL BE DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED AND VEGETATED WATERWAYS. ADDITIONAL DETAILS WILL BE PROVIDED SPECIFIC TO THE SITE DESIGN.

2 LIMITED USE PERVIOUS ACCESS ROAD - 10% AND GREATER SLOPES WITH DITCH
SCALE: N.T.S.



4 GEOWEB SYSTEM
SCALE: N.T.S.

| Rev | Date | Drawn | Description | Ch'k'd | App'd |
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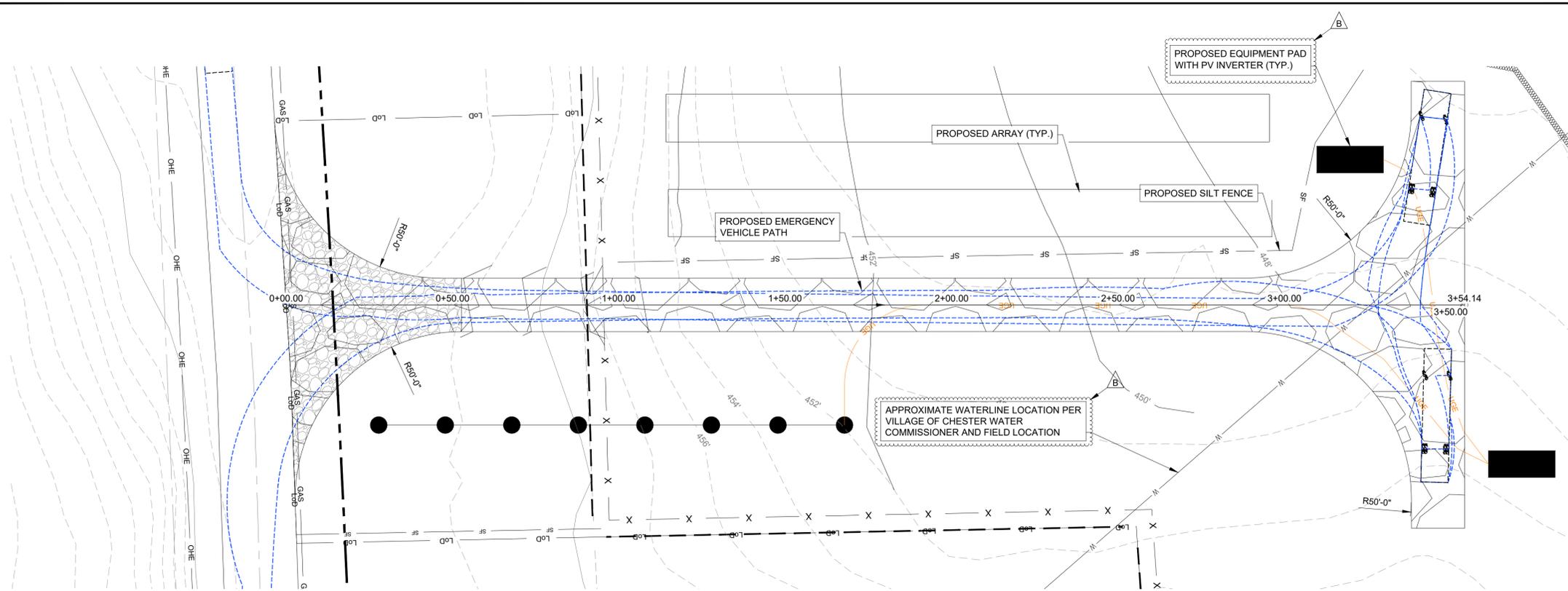
Title: **GREYCOURT ROAD SOLAR PROJECT ROAD DETAILS**

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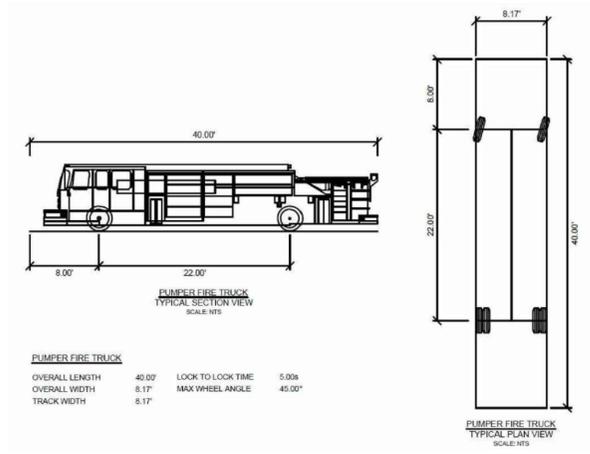
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TAX ID: 3-1-72



LEGEND

- PROPERTY BOUNDARY
- - - LEASE AREA
- - - PROPERTY (ADJOINER)
- - - EXISTING OVERHEAD ELECTRIC LINE
- - - EXISTING PIPELINE
- - - EXISTING WATER LINE
- - - EX. MAJOR CONTOUR (10' INTERVAL TYP.)
- - - EX. MINOR CONTOUR (2' INTERVAL TYP.)
- - - PROPOSED MAJOR CONTOURS (2 & 10' INV.)
- - - PROPOSED PV PLANT FENCE
- - - PROPOSED LOD
- - - PROPOSED EMERGENCY VEHICLE PATH
- - - PROPOSED UNDERGROUND ELECTRIC
- - - PROPOSED ACCESS ROAD
- - - PROPOSED SLOPE PROTECTION

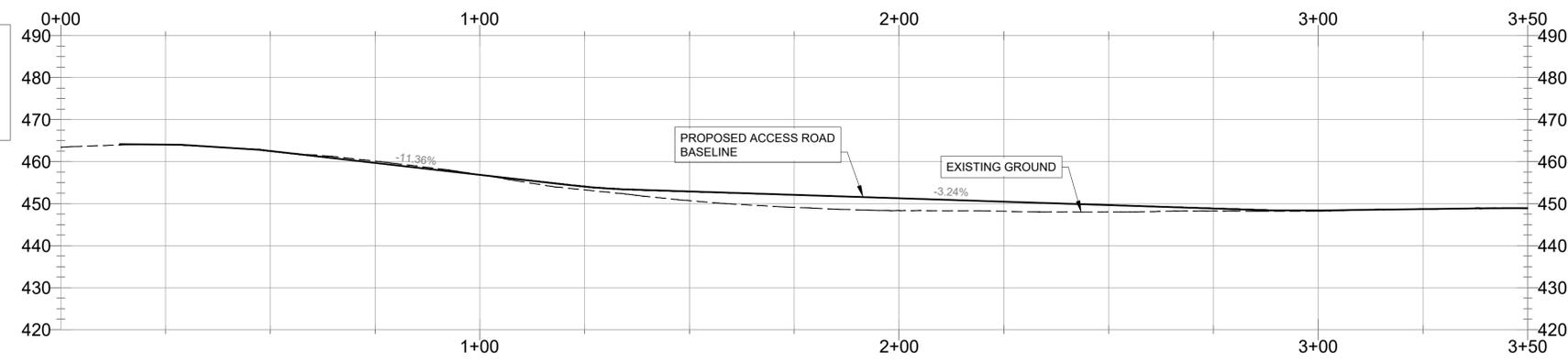


ENTRANCE ACCESS ROAD STATION 0+00.00 TO 3+50.00 PLAN



PROFILE LEGEND

- - - EXISTING GRADE
- PROPOSED GRADE



ENTRANCE ACCESS ROAD STATION 0+00.00 TO 3+50.00 PROFILE



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| A | 2/4/22 | MAA | ISSUED FOR PERMIT | SEP | CC |

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Client
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Title
**GREYCOURT ROAD SOLAR PROJECT
ACCESS ROAD PLAN AND PROFILE**

TAX ID: 3-1-72

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