1. TREE REMOVAL WILL BE IN CONFORMANCE WITH LOCAL AND STATE REGULATIONS AS WELL AS ANY TOPOGRAPHY SHOWN ON THIS MAP HAS BEEN COMPILED FROM AVAILABLE LIDAR ELEVATION DATA.

2. TREE REMOVAL LIMITS IDENTIFIED ON THE PLANS SHALL BE DEMARCATED IN THE FIELD. TREE REMOVAL WITHIN 100' WETLAND BUFFER SHALL BE SELECTIVE CUTTING ONLY OF TREES TALLER THAN 25 FEET.

3. TREES AND OTHER VEGETATION MAY BE REDUCED TO CHIPS BY THE USE OF CHIPPING MACHINES OR BY FORMER JONES & LAUGHLIN ORE PROCESSING.

4. AT THE END OF EACH WORK DAY ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY SECURED. EXISTING TALL GROWING VEGETATION SHALL BE SCARIFIED/DECOMPACTED AND STOCKPILED SOIL SPREAD AND THE AREA STABILIZED AND SHALL REMAIN IN PLACE UNTIL THE RESTORED AREA HAS BEEN RE-VEGETATED.

5. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING IMPROVEMENTS AND FACILITIES TO RELATIVELY UNIFORM LAYERS WITHIN THE LIMITS OF THE TEMPORARY CONSTRUCTION LAYDOWN ROUTE 3 MUST ALSO BE IN ACCORDANCE WITH THE NOTICE OF CERTIFICATE OF COMPLETION MADE AND NO STORAGE, MIXING, OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN OBJECTS. REASONABLE EFFORTS SHALL BE MADE TO USE FILL MATERIALS THAT ARE VISIBLY FREE OF TOXIC TO AQUATIC LIFE IS EXPRESSLY PROHIBITED.

6. AT THE END OF EACH WORK DAY ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY SECURED. EXISTING TALL GROWING VEGETATION SHALL BE SCARIFIED/DECOMPACTED AND STOCKPILED SOIL SPREAD AND THE AREA STABILIZED AND SHALL REMAIN IN PLACE UNTIL THE RESTORED AREA HAS BEEN RE-VEGETATED.

7. INDIRECT IMPACTS TO STREAMS AND WETLANDS SHALL BE CONTROLLED THROUGH THE EMPLOYMENT OF APPROPRIATE BEST MANAGEMENT PRACTICES. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES PRIOR TO WORK AUTHORITY OR WHETHER TO DIRECT THE CONTRACTOR TO FURTHER MINIMIZE IMPACTS TO

8. TOPOGRAPHY SHOWN IN THIS MAP HAS BEEN COMPLIED FROM AVAILABLE LIDAR ELEVATION DATA, PREPARED BY D.LIMITS OF CLEARING AND DISTURBANCE (ACRES) 119.0

9. TAILINGS, AS SHOWN. PROPERTY NORTH OF N.Y.S. ROUTE NO. 3 IS CURRENTLY USED FOR AN EXISTING PROPOSED LEASE AREA (ACRES) 165.6

10. THE CONTRACTOR SHALL IDENTITY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES PRIOR TO

11. NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE SURVEY DATED JULY 26, 2021, SEALED BY MATTHEW C. VAN DOREN, PLS.

12. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES PRIOR TO

13. NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE SURVEY DATED JULY 26, 2021, SEALED BY MATTHEW C. VAN DOREN, PLS.

14. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES PRIOR TO

15. NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE SURVEY DATED JULY 26, 2021, SEALED BY MATTHEW C. VAN DOREN, PLS.

16. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES PRIOR TO

17. NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE SURVEY DATED JULY 26, 2021, SEALED BY MATTHEW C. VAN DOREN, PLS.

18. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES PRIOR TO

19. NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE SURVEY DATED JULY 26, 2021, SEALED BY MATTHEW C. VAN DOREN, PLS.
INDUSTRIAL USE
RESOURCE MANAGEMENT

LOCATION

PARCEL PROPERTY LINE
(PARCEL NO. 1 & 2)

SOUTH PORTION OF THE 2,049 ± Ac. PARCEL NO. 1

SOUTHWEST PORTION OF THE 1,002.3 ± Ac. PARCEL NO. 2

100' APA WETLAND SETBACK

EXISTING SNOWMOBILE TRAIL TO BE ABANDONED

EXISTING TRAIL

LEASE AREA

PROJECT BOUNDARY

STATE ROUTE 3 OLYMPIC TRAIL

LITTLE RIVER

STAR LAKE ROAD

BENSON MINES ROAD

LITTLE RIVER

SUNNY POND

MAP REFERENCES:
2. MAP OF SURVEY PREPARED FOR NATIONAL GRID STAR LAKE SUBSTATION PERMANENT EASEMENT, DATED DECEMBER, 2013, BY WCT SURVEYORS, P.C. = RONALD E. TOWNE, PLS.
3. POINT OF INTERCONNECTION (POI): BROWN'S FALLS TO NEWTON FALLS #2234.5kV LINE, NORTH OF STAR LAKE SUBSTATION. THE POI AS DEPICTED IS SUBJECT TO FINAL APPROVAL OF THE NEW YORK INDEPENDENT SYSTEM OPERATOR (NYISO) AND NATIONAL GRID THROUGH THE ONGOING SMALL GENERATOR INTERCONNECTION PROCESS (SGIP). ANY RESULTING MODIFICATION TO THE POI FACILITY CONFIGURATION WILL BE SUBMITTED TO THE APA BY PROVISION OF AN UPDATED DRAWING SHEET(S) PRIOR TO CONSTRUCTION.
TREE CLEARING WITHIN THE LOD SHALL INCLUDE FULL REMOVAL OF TREES, BRUSH, MAP OF SURVEY PREPARED FOR NATIONAL GRID STAR LAKE SUBSTATION PERMANENT KEY MAP AND TABLES, WITH ASSOCIATED MAPS AND PARCELS, OF PROPERTY ACQUISITIONS PROPOSED POINT OF INTERCONNECTION (POI): BROWN’S FALLS TO NEWTON FALLS #2234.5kV LINE, RMK 03/31/2022 IFP SET APA COMMENTS.

DATE CHK LOD

200 FT 100 EASEMENT RIGHT OF WAY

PROJECT BOUNDARY 100' APA WETLAND

STATE ROUTE 3 OLYMPIC TRAIL

RURAL USE

INDUSTRIAL USE

100’ APA WETLAND

100’ APA WETLAND

UTILITY POLE AND GUY

LAYDOWN YARD

GARDRAIL

TREELINE

FLOODPLAIN

WETLAND

PV ARRAY

CULVERT

STREAM

TRAIL

PAVED ROAD

GRAVEL ROAD

CHAIN LINK FENCE

REFLECTOR POST

FIRE HYDRANT

MAJOR CONTOUR

MINOR CONTOUR

SITE PLAN

FOR CONTINUATION, SEE SHEET C-301

KEY MAP

TABLE

PROJECT NO: 444154

DES

APP

REV

C-303

C-302

C-304

C-301

BENSON MINES SOLAR PROJECT

BR BENSON MINES SOLAR PROJECT

NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY

CLIFTON, ST LAWRENCE COUNTY, NEW YORK

P-0022-006
PROPOSED TREE CLEARING WITHIN THE LOD SHALL INCLUDE FULL REMOVAL OF TREES, BRUSH, STUMPS, AND SURFACE RESTORATION TO ACCOMMODATE PANEL INSTALLATION. TREE CLEARING NOTE: CUTTING OF ANY TREES TALLER THAN 30’. FOR SELECTIVE CUTTING WITHIN THE WETLAND BUFFER, ALL TREES AND SLASH SHALL BE DROPPED IN PLACE WITH NO EXCESS SOIL DURING LAYDOWN AREA AND TO INFILTRATION BASIN 4.

MAP REFERENCES:
1. A KEY MAP WITH ASSOCIATED MAPS AND PARCELS WERE PROVIDED BY WCT SURVEYORS, P.C. = RONALD E. TOWNE, CLIFTON, ST LAWRENCE COUNTY, NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY.
2. ANOTHER KEY MAP WITH ASSOCIATED MAPS AND PARCELS WAS MAPPED EXISTING FROM ROUTE 3.
3. C-302 C-402 C-404 ANOTHER KEY MAP WITH ASSOCIATED MAPS AND PARCELS WERE PROVIDED BY N.Y.S.D.O.T. REGION 7.

FOR CONTINUATION, SEE SHEET C-303

PRELIMINARY
NOT FOR CONSTRUCTION
POINT OF INTERCONNECTION (POI): BROWN'S FALLS TO NEWTON FALLS #2234.5kV LINE,
TREE CLEARING WITHIN THE LOD SHALL INCLUDE FULL REMOVAL OF TREES, BRUSH,

IFP SET APA COMMENTS
IFP SET
NEW YORK
RMK
03/31/2022
LOD
E1
E1
E1
E1
E1
E1
E1
E1
E1
RIGHT OF WAY
STOCKPILE
BYPASS DETENTION BASIN
INFILTRATION BASIN NO. 2
18 inch Corrugated HDPE Pipe
2,049 ± Ac. PARCEL NO. 1
TO INFILTRATION BASIN
CONVEYANCE SWALE
PROPOSED TEMPORARY
10'
20' (TYP)
STOCKPILE
INDUSTRIAL USE
COLLECTOR LINE
SCALE: 1" = 100'
FOR CONTINUATION, SEE SHEET C-301

1. KEY MAP AND TABLES MAY INCLUBUDE MAPS AND MAPIECE OF PROPERTY ATTACHED TO
2. ANY DRAWING, SHEET OR DOCUMENT PREPARED OR MAINTAINED FOR MAINTENANCE,
3. PROJECT AS DEPICTED IS SUBJECT TO FINAL APPROVAL
OF THE NEW YORK INDEPENDENT SYSTEM OPERATOR (NYISO) AND NATIONAL GRID
APPROVED
DESIGNED
CHECKED
DRAWN
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BWH
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BR BENSON HINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH
AND DEVELOPMENT AUTHORITY
CLIFTON, ST LAWRENCE COUNTY, NEW YORK

PRELIMINARY
NOT FOR CONSTRUCTION
PROPOSED OHE TREE CLEARING WITHIN THE LOD SHALL INCLUDE FULL REMOVAL OF TREES, BRUSH, AND SLASH.

MAP OF SURVEY PREPARED FOR NATIONAL GRID STAR LAKE SUBSTATION PERMANENT POINT OF INTERCONNECTION (POI): BROWN'S FALLS TO NEWTON FALLS #2234.5kV LINE, WITH ASSOCIATED MAPS AND PARCELS, OF PROPERTY ACQUISITIONS 200FT EASEMENT RIGHT OF WAY.

FOR THE "PAPER STREET" FORMER N.Y.S. HIGHWAY±, LANDS NOW OR FORMERLY OF COUNTY OF ST. LAWRENCE, INSTRUMENT DOC. NO. INSTRUMENT DOC. NO. C-301 BENSON MINES ROAD ROW (SEE MAP REFERENCE NO. 3)

FOR CONTINUATION, SEE SHEET C-302
BENSON MINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
CLIFTON, ST. LAWRENCE COUNTY, NEW YORK

1. INSTALL RECP ON ALL SLOPES 3:1 OR GREATER AND IN CHANNELS
   7. ALL RECP TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN
   6. ENSURE EROSION CONTROL MATERIAL ROLLS ARE UNRAVELED DOWN
3. INSTALL RECP ON ALL SLOPES 3:1 OR GREATER AND IN CHANNELS
   5. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED
   4. DISTURBED AREA SHALL BE SMOOTHLY GRADED TO ENSURE CLOSE
5. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER
   3. ANCHOR SLOT
6. ENSURE EROSION CONTROL MATERIAL ROLLS ARE UNRAVELED DOWN
   2. JUNCTION SLOT
7. ALL RECP TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED
   1. CHECK SLOT
   TO SUBGRADE. PIPE SHALL NOT BE LAID IN UNCOMPACTED SOIL OR IN WATER. IF IN LEDGE
6. ENSURE EROSION CONTROL MATERIAL ROLLS ARE UNRAVELED DOWN
5. EROSION CONTROL MATERIAL ROLLS ARE UNRAVELED DOWN
4. DISTURBED AREA SHALL BE SMOOTHLY GRADED TO ENSURE CLOSE
3. ANCHOR SLOT
2. JUNCTION SLOT
1. CHECK SLOT
   TO SUBGRADE. PIPE SHALL NOT BE LAID IN UNCOMPACTED SOIL OR IN WATER. IF IN LEDGE
   MINIMUM BURY DEPTH 12" OR AS REQUIRED BY MANUFACTURER.
   MIN. OF 6" IN GROUND
B. BED PIPE TO SPRINGLINE IN 6" OF BEDDING MATERIAL MEASURED FROM BOTTOM OF PIPE
   PIPE BEDDING, TYP.
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STATE ROUTE 3 DRIVEWAY DETAIL

TYPICAL ACCESS ROAD TURNAROUND

TYPICAL ACCESS ROAD SECTION

PRELIMINARY

DRIVEWAY AND ROAD DETAILS

BRI-BENSON MINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
CLIFTON ST. LAWRENCE COUNTY, NEW YORK

MULCH
FERTILIZER, &
AND DEVELOPMENT AUTHORITY

GRADE
MILL EXISTING PAVEMENT TO A DEPTH
2'-0"
MINIMUM
2'-0"
MINIMUM 200'-R1 MIRAFI 600X
C-401

SCALE: N.T.S.

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NOT FOR CONSTRUCTION

1. PAVED DRIVEWAY APRON SHALL MEET ALL SDOT REQUIREMENTS FOR A MINOR COMMERCIAL DRIVEWAY ACCESSED FROM A STATE HIGHWAY.
2. THE DRIVEWAY HAS BEEN DESIGNED IN ACCORDANCE WITH SDOT STANDARDS SHEETS 1040-2004 AND 1040-2008 FOR THE DESIGN OF ENTRANCES TO STATE HIGHWAYS (SEPTEMBER 1, 2017 EDITION).
POST HOLE DEPTH SHALL BE INCREASED TO 6 FEET.

1. DIMENSIONS: 18" X 12".
2. SIGNS SHALL BE 0.040" (MIN.) RUST-FREE ALUMINUM.
3. ALL CORNER, POST CONCRETE FOOTING DETAIL
   POSTS SHALL BE STEEL PIPE, ASTM F1083 STANDARD
   · GATE POSTS - 3 1/2" SCH 40 (O.D. = 4"
   · LINE POSTS - 1 1/2" SCH 40 (O.D. = 1 7/8"
   · CORNER AND ALL POSTS - 1 1/2" SCH 40 (O.D. = 1 7/8"

1'-0" X 10' MAXIMUM
GATE WIDTHS AS INDICATED ON PLANS

1'-0" X 10' MAXIMUM
GATE WIDTHS AS INDICATED ON PLANS

1'-0" X 10' MAXIMUM
GATE WIDTHS AS INDICATED ON PLANS

1'-0" X 10' MAXIMUM
GATE WIDTHS AS INDICATED ON PLANS

1'-0" X 10' MAXIMUM
GATE WIDTHS AS INDICATED ON PLANS

ARRIVAL OR EQUIVALENT

DISTRIBUTED

WARNING
KEEP OUT
PRIVATE PROPERTY
NO TRESPASSING

NOTES:
1. DIMENSIONS: 9" X 12"
2. BOARD SHALL BE 3/4" MIN WOOD FREE ALUMINUM
3. ATTACH TO OUTSIDE OF FENCE POST EVERY 200' MAX.

SWING GATE FRAME
SCALE: NTS

CONCRETE FOOTING DETAIL
SCALE: NTS

ACCESS GATE DETAILS
SCALE: NTS

ARY FENCE DETAILS
SCALE: NTS

SITE SIGNAGE
SCALE: NTS

POLICE WARNING SIGNS AS INDICATED

NOTES:
1. DIMENSIONS: 30" X 24"
2. SIGNS SHALL BE 0.080" (MIN.) RUST-FREE ALUMINUM.
3. ATTACH TO OUTSIDE OF PERIMETER FENCE EVERY 200' MAX.

NOTES:
1. DIMENSIONS: 18" X 12".
2. SIGNS SHALL BE 0.040" (MIN.) RUST-FREE ALUMINUM.
3. ATTACH TO OUTSIDE OF PERIMETER FENCE EVERY 200' MAX.

NOTES:
1. DIMENSIONS: 30" X 24"
2. SIGNS SHALL BE 0.080" (MIN.) RUST-FREE ALUMINUM.
3. ATTACH TO OUTSIDE OF PERIMETER FENCE EVERY 200' MAX.

PRELIMINARY
CIVIL AND FENCING DETAILS
BRI BENSON MINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
CLIFTON ST LAWRENCE COUNTY, NEW YORK
NOTE:
THE PV MODULE TRACKING SYSTEM ROTATES EAST AND WEST TO FOLLOW THE SUN.

POST DEPTH VARIES

TRACKER RACK SECTION DETAIL

TOTAL HEIGHT

TYPICAL GROUTED PILE

TYPICAL DRIVEN PILE

TYPICAL GROUND SCREW PILE W/ CAP

TYPICAL RACK FOUNDATION DETAILS

± 12' SPACING MAY VARY

REV.

DATE

SCALE

SIDE VIEW

PLAN VIEW

TYPICAL INVERTER SKID

TYPICAL RACK FOUNDATION DETAILS

1. FOUNDATION DESIGNED BY OTHERS, SHOWN FOR GENERAL REFERENCE ONLY.
2. THE LOCATIONS AND SIZES OF THE CABLE ENTRANCE AND THE OIL TRAY, IF APPLICABLE, MUST BE TAKEN INTO ACCOUNT FOR THE FOUNDATION DESIGN.
3. SKIDTAINER DIMENSIONS ARE TYPICAL AND VARY BY MANUFACTURER.

12 MAXWELL DRIVE
CLIFTON PARK, NY 12065

ARRAY AND RACKING DETAILS

BENSON MINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
CLIFTON, ST LAWRENCE COUNTY, NEW YORK

PRELIMINARY
NOT FOR CONSTRUCTION

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
1. Stone Bales - Use 1’-0” stone or reclaimed or recycled concrete on embankments.
2. Straw Bales - Use straw bales on embankments.
3. Thieves - No less than 10’ @ 36”.
4. Depth - Not less than 36”.
5. Height - Not less than 36”.
6. Minimum - Not less than 4’.
7. Minimum - Not less than 50’.

STABILIZED CONSTRUCTION ENTRANCE

1. Area chosen for stockpiling operations shall be dry and level except for shallow soil stockpiles that are surrounded with either silt fencing or straw bales, then stabilized with vegetation or covered.

2. MAXIMUM SLOPE LENGTH

3. COMPOST FILTER Sock

4. TYPICAL CONCRETE WASHOUT

5. TEMPORARY LAYDOWN YARD TYPICAL SECTION

6. STRAW BALES BARRIER

NOTES:
1. Straw Bales shall be used only as reinforcement for silty or sandy soils and shall be replaced at a minimum of 10% of all bales or on the centerline, with the same type and alignment as the original.
2. Straw Bales shall be left in place until final stability is achieved.
3. Straw Bales shall be replaced to maintain stockpile stability.
4. Straw Bales shall be replaced at a minimum of 10% of all bales or on the centerline, with the same type and alignment as the original.
5. Straw Bales shall be placed in a row at the toe of a slope or on the contour.
6. Straw Bales shall be placed in a row at the toe of a slope or on the contour.

Erosion and Sedimentation Control Details

New York State Energy Research and Development Authority

10 Maxwell Drive
Clifton Park, NY 12065

Preliminary

Not for Construction

BRI BENSON MINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
CLIFTON ST., LAURENCE COUNTY, NEW YORK
ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.

PROVIDE STABILIZATION AND EROSION CONTROLS AS REQUIRED BY THE ON-SITE ENVIRONMENTAL

FIGURE IS BASED ON NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING BASIN.

ALL EXCAVATED MATERIAL NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SUCH THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.

DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN LINED 4-8" RIP RAP OR GEOTEXTILE (5 AC OR LESS)

ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE removing and disposed of 30' TO 30' NOT TO BE BURIED WITH THE PROPER FUNCTION OF THE DITCH.

A LINED DRAIN AGGREGATE SHAL BE STABILIZED WITH A 6" GEOTEXTILE FABRIC TO CONTROL EROSION RUN-OFF. PROVIDED TO CONTROL EROSION RUN-OFF.

TRANSPORTATION DITCHES SHALL BE CONSTRUCTED AND MAINTAINED TO PROVIDE A STABLE CHANNEL.

Sediment filter bags shall be inspected daily. If any problem is detected, pumping shall cease immediately and the pump shall be removed. Provided. Filter bags shall be replaced when they become 75% full. The accumulated sediment shall be managed in conformance with the project SWPPP.

PROVIDE YOUR OWN INFILTRATION CONTROLS AS REQUIRED BY THE LOCAL ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH "THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL - 2015"

The pumping rate shall be no greater than 750 GPM or 50% of the maximum rate specified by the manufacturer, whichever is less. Provide floating suction screens at the water source.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND THE PUMP SHALL BE REMOVED.

WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. FILTER BAGS SHALL BE PLACED ON STRAPS AS SHOWN TO FACILITATE REMOVAL.

DCOM PIPING 

2. ALL DRAINAGE DITCHES SHALL BE ROUNDED OFF AT TRANSITIONS WHERE IT IS IN THE BODY OF WATER.

3. DIVERTED DITCHES SHALL BE CONSTRUCTED AND MAINTAINED TO PROVIDE A STABLE CHANNEL.

4. ALL DREDGED/DEPOSITED/REMOVED MATERIAL SHALL BE CONVEYED TO A LICENSED DREDGE OR DISPOSED OF IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

5. INSPECT AND PROVIDE MAINTENANCE AS DIRECTED BY THE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THE DOCUMENT

6. FILTER BAGS SHALL BE LOCATED IN A WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. FILTER BAGS SHALL BE PLACED WHERE A GRASSY AREA IS NOT AVAILABLE. A COMPOST FILTER SOCK PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 75% FULL. THE ACCUMULATED SEDIMENT DISPOSAL SHALL BE MANAGED IN CONFORMANCE WITH THE PROJECT SWPPP.

1. DAMAGE DRAIN CONVEYORS SHALL BE HOSTED TO THE TRANSITIONS WHERE IT IS IN THE BODY OF WATER.

11. FILTER BAGS SHALL BE INSTALLED BELOW BAGS PLACED WHERE A GRASSY AREA IS NOT AVAILABLE. A LINED FABRIC FILTER SHALL BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.

FILTER BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

12. FILTER BAGS SHALL BE INSTALLED BELOW BAGS PLACED WHERE A GRASSY AREA IS NOT AVAILABLE. A LINED FABRIC FILTER SHALL BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.

10. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 50 PERCENT OF THE MAXIMUM RATE SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PROVIDE FLOATING SUCTION SCREENS AT THE WATER SOURCE.

1. FILTER BAGS SHALL BE INSTALLED WHERE INDICATED ON SITE GRADING PLAN AND AS NEEDED BY SPACING REQUIREMENTS.

5.1-8.0% 3.1-5.0% 2.0-3.0%

5. GEOTEXTILE SHALL BE GEOTEX 801 OR APPROVED EQUAL.

4. MINIMUM RIPRAP THICKNESS (T) OF RIPRAP MUST BE DOUBLE STICHED "J" TYPE SEAMS (ASTM D4884).

2. RIPRAP GRADATION SHALL BE D-100 OR APPROVED EQUAL.

1. RIPRAP SIZES SHALL BE STABILIZED WITH A 6" GEOTEXTILE FABRIC TO CONTROL EROSION RUN-OFF.

4. GEOTEXTILE FABRIC-

APPROVED EQUAL

MIRAFI 140N OR APPROVED EQUAL

3. GEOTEXTILE STABILIZATION CHART BELOW:

ALL STABILIZATION DETAIL SHAL BE STABILIZED WITH A 6" GEOTEXTILE FABRIC TO CONTROL EROSION RUN-OFF.

10' MIN.

1'-6" 1'-6"

1. SWALES TYPE A (GREATER THAN 5 AC)

2. SWALE TYPE B (GREATER THAN 5 AC)

3. SECTION VIEW

4. TYPICAL DRAINAGE SWALE

5. TYPICAL RIPRAP SLOPE DETAIL

6. TYPICAL CHECK DAM DETAIL

1. TYPICAL DEWATERING BASIN

2. TYPICAL RIPRAP SLOPE DETAIL

3. TYPICAL DRAINAGE SWALE

4. TYPICAL SWALE DETAIL

5. TYPICAL CHECK DAM DETAIL

6. TYPICAL DRAINAGE SWALE
UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145, SUBDIVISION 15 OF SECTION 145.72, IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
LEGEND:

- PROPOSED INSTALL POLE
- 34.5kV OVERHEAD CONDUCTOR
- 34.5kV UNDERGROUND CABLE
- TURNKEY STATION
- TRANSFORMER INTEGRATED
- 34.5kV ABOVE GROUND
- JUNCTION BOX
- 38kV PADMOUNT RECLOSER
- G&W VIPER-S TYPE

NOTES:
1. ALL COLLECTION CIRCUITS OPERATED AT 34.5kV
UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ELECTRIC ONE-LINE DIAGRAM

BR BENSON MINES SOLAR PROJECT
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
CLIFTON, ST LAWRENCE COUNTY, NEW YORK

PRELIMINARY
NOT FOR CONSTRUCTION
8. Tree clearing will be limited to the areas shown on the site plan. Any tree clearing outside of the 100 foot APA wetland buffer areas can be done using hand tools and slash left in place to benefit wildlife habitats.

9. No mowing shall be used for tree clearing purposes. The top 10 foot area behind BURPER ABUR (B) may be mulched and no mowing shall be required.

10. All pruning must conform to the tree care industry association (PCA) hand (1991) "pruning and trimming protocols" that can be used instead of the following trimming methods. Manual felling, felling, shaping, removal, and shaping or trimming by classification, removal, and shaping by classification. Trees shall be pruned to their natural form. Trees shall be pruned in a manner that does not interfere with the operation of the solar array, and that will not cause damage to the structure or equipment.