

CONSTRUCTION PLANS FOR FUSION SOLAR CENTER

POTASH HILL RD
SPRAGUE, CT 06330

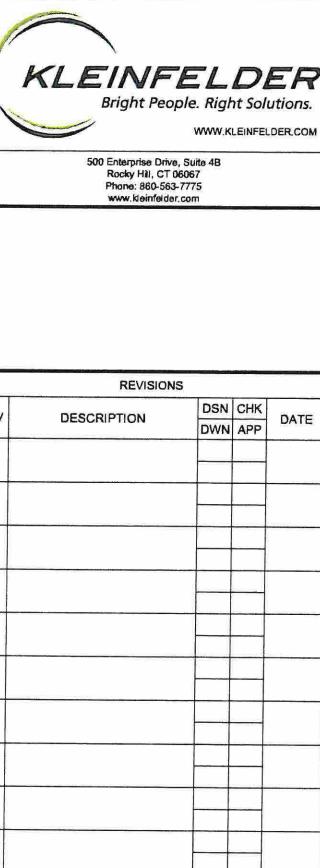
SHEET	TITLE
C-1	COVER
C-2	NOTES
C-3	EXISTING CONDITIONS
C-4	DRIVEWAY EXHIBIT
C-5 - C-7	EROSION AND SEDIMENT CONTROL PLANS
C-8 - C-10	GRADING AND DRAINAGE PLAN
C-11	LANDSCAPE BUFFER PLAN
C-12 - C-15	DETAILS
C-16	CALCULATIONS



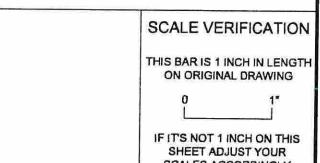
GEHRLICHER SOLAR AMERICA CORP.

21 FADEM ROAD
SPRINGFIELD, NEW JERSEY 07081
908-988-4453

PLOTTED: 6/30/2016 4:58 PM BY: rob gaule
LAYOUT: 1 COVER
C:\Users\rob\Documents\Gehrlicher Solar America Corp\Panasonic Fusion\Site Plan\Panasonic Fusion.dwg



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PERMITTING



ORIGINAL DRAWING SIZE IS 24 x 36
COVER

FUSION SOLAR CENTER
POTASH RD
SPRAGUE, CT 06630



GEHRLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

CONSTRUCTION

PROJECT NO. 20163850.001A	C-1
ISSUE DATE 06/30/2016	
CURRENT REVISION -	
DESIGNED BY JS	
DRAWN BY RGC	
CHECKED BY RGC	
APPROVED BY SC	



1 of 16

GENERAL NOTES

1. SURVEY PROVIDED BY FUSS AND O'NEIL, INC., DATED 05/29/2015.
2. WETLAND AND STREAM DELINEATION PROVIDED BY ALL-POINTS TECHNOLOGY CORPORATION, P.C.'S ENVIRONMENTAL ASSESSMENT, DATED JULY, 2015.
3. CLEARING AND GRUBBING WILL BE PERFORMED INSIDE THE LIMITS OF THE PROPOSED FENCE, 30' OUTSIDE OF THE FENCE, ON PROPOSED ACCESS ROADS, AND IN THE AREAS OF PROPOSED STORMWATER MANAGEMENT DEVICES. ALL OTHER AREAS SHALL BE CLEARED OF TREES AND STUMPS LEFT IN PLACE.
4. EXCESS CUT MATERIAL SHALL BE SPOILED AND STABILIZED ON SITE. SPOILING SHALL BE DONE IN AREAS SUCH THAT WETLANDS, 100' WETLAND BUFFER, AND STREAMS WILL NOT BE AFFECTED.
5. SALVAGEABLE TIMBER WILL BE HARVESTED PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES.
6. DISCARDED STUMPS AND TIMBER WILL BE GROUND AND SPOILED ON SITE. GROUND STUMPS AND TIMBER ARE NOT TO BE MIXED WITH STRUCTURAL FILL MATERIAL.
7. THE SITE DOES NOT CONTAIN ANY EXISTING SPECIES OF VEGETATION THATS TO BE PROTECTED.
8. PERIODIC MAINTENANCE OF THE SITE SHALL INCLUDE OCCASIONAL TRIMMING OF UNDERGROWTH, REMOVAL OF NUISANCE TREES, AND MOWING.

ENVIRONMENTAL NOTES

THE PROJECT SITE IS LOCATED WITHIN AN ENVIRONMENTALLY SENSITIVE AREA THAT INCLUDES RARE SPECIES, WETLANDS AND VERNAL POOL HABITATS. THE CONTRACTOR IS REQUIRED TO FOLLOW THE PROTECTION PROGRAMS IDENTIFIED BELOW TO AVOID ADVERSELY AFFECTING RARE SPECIES AND SPECIAL HABITATS DURING CONSTRUCTION. IN ADDITION, CERTAIN METHODS OF CLEARING BEYOND THE PROPOSED FENCED LIMITS OF THE SOLAR FACILITY ARE REQUIRED TO ENHANCE WILDLIFE HABITAT VALUE, AS DISCUSSED BELOW.

WOOD TURTLE AND WETLAND PROTECTION PROGRAM

WOOD TURTLE, A STATE-LISTED SPECIAL CONCERN SPECIES AFFORDED PROTECTION UNDER THE CONNECTICUT ENDANGERED SPECIES ACT, IS KNOWN TO OCCUR ON OR WITHIN THE VICINITY OF THE SITE. THE FOLLOWING PROTECTIVE MEASURES SATISFY REQUIREMENTS FROM THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION ("CTDEEP") WILDLIFE DIVISION AND FOLLOW PROTOCOLS DEVELOPED FROM PREVIOUS RARE SPECIES CONSULTATIONS AND STATE-APPROVED PROTECTION PLANS. THIS PROTECTION PROGRAM IS VALID UNTIL JANUARY 28, 2017, AT WHICH POINT IF CONSTRUCTION HAS NOT BEEN INITIATED A NEW NATURAL DIVERSITY DATA BASE ("NDDB") REVIEW REQUEST FROM CTDEEP IS REQUIRED.

IN ADDITION, THE PROPOSED PROJECT IS LOCATED IN CLOSE PROXIMITY TO WETLAND RESOURCE AREAS. AS A RESULT, THE FOLLOWING PROTECTIVE MEASURES INCLUDE PROTOCOLS TO BE FOLLOWED TO HELP AVOID POTENTIAL DEGRADATION OF NEARBY WETLAND/WATERCOURSE RESOURCES DURING CONSTRUCTION ACTIVITIES.

IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR COMPLIES WITH THE REQUIREMENT FOR THE INSTALLATION OF PROTECTIVE MEASURES AND THE EDUCATION OF ITS EMPLOYEES AND SUBCONTRACTORS PERFORMING WORK ON THE PROJECT SITE. THE TURTLE PORTION OF THIS PROTECTION PLAN SHALL BE IMPLEMENTED IF WORK WILL OCCUR DURING THE WOOD TURTLE'S ACTIVE PERIOD (APRIL 1 TO NOVEMBER 15). THE WETLAND PROTECTION PORTION OF THIS PLAN SHALL BE IMPLEMENTED REGARDLESS OF THE TIME OF YEAR. ALL-POINTS TECHNOLOGY CORPORATION, P.C. ("APT") WILL SERVE AS THE ENVIRONMENTAL MONITOR FOR THIS PROJECT TO ENSURE THAT THESE PROTECTION MEASURES ARE IMPLEMENTED PROPERLY AND WILL PROVIDE AN EDUCATION SESSION ON THIS RARE TURTLE SPECIES AND THE PROJECT'S PROXIMITY TO SENSITIVE WETLAND RESOURCES PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONTACT DEAN GUSTAFSON, SENIOR ENVIRONMENTAL SCIENTIST AT APT, AT LEAST 5 BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. MR. GUSTAFSON CAN BE REACHED BY PHONE AT (860) 984-9515 OR VIA EMAIL AT DGUSTAFSON@ALLPOINTSTECH.COM.

THE PROPOSED PROTECTION PROGRAM CONSISTS OF SEVERAL COMPONENTS: ISOLATION OF THE PROJECT PERIMETER; PERIODIC INSPECTION AND MAINTENANCE OF ISOLATION STRUCTURES; EDUCATION OF ALL CONTRACTORS AND SUB-CONTRACTORS PRIOR TO INITIATION OF WORK ON THE SITE; PROTECTIVE MEASURES; AND, REPORTING.

1. ISOLATION MEASURES & EROSION AND SEDIMENTATION CONTROLS

a. PLASTIC NETTING USED IN A VARIETY OF EROSION CONTROL PRODUCTS (I.E., EROSION CONTROL BLANKETS, FIBER ROLLS [WATTLES], REINFORCED SILT FENCE) HAS BEEN FOUND TO ENTANGLE WILDLIFE, INCLUDING REPTILES, AMPHIBIANS, BIRDS AND SMALL MAMMALS. NO PERMANENT EROSION CONTROL PRODUCTS OR REINFORCED SILT FENCE WILL BE USED ON THE FUSION SOLAR PROJECT. TEMPORARY EROSION CONTROL PRODUCTS WILL USE EITHER EROSION CONTROL BLANKETS AND FIBER ROLLS COMPOSED OF PROCESSED FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX (NETLESS) OR NETTING COMPOSED OF PLANAR WOVEN NATURAL BIODEGRADABLE FIBER TO AVOID/MINIMIZE WILDLIFE ENTANGLEMENT.

b. INSTALLATION OF EROSION AND SEDIMENTATION CONTROLS (I.E., SILT FENCING), REQUIRED FOR EROSION CONTROL COMPLIANCE AND CREATION OF A BARRIER TO POSSIBLE MIGRATING/DISPERSING HERPETOFAUNA, SHALL BE PERFORMED BY THE CONTRACTOR FOLLOWING CLEARING ACTIVITIES AND PRIOR TO ANY EARTHWORK. THE ENVIRONMENTAL MONITOR WILL INSPECT THE WORK ZONE AREA PRIOR TO AND FOLLOWING EROSION CONTROL BARRIER INSTALLATION TO ENSURE THE AREA IS FREE OF TO ENSURE THE AREA IS FREE OF WOOD TURTLES AND SATISFACTORILY INSTALLED. THE INTENT OF THE BARRIER IS TO SEGREGATE THE MAJORITY OF THE WORK ZONE AND ISOLATE IT FROM FORAGING/MIGRATING/DISPERSING TURTLES WHILE AT THE SAME TIME PROVIDING SEDIMENTATION AND EROSION CONTROL. OFTENTIMES COMPLETE ISOLATION OF A WORK ZONE IS NOT FEASIBLE DUE TO ACCESSIBILITY NEEDS AND LOCATIONS OF STAGING/MATERIAL STORAGE AREAS, ETC. IN THOSE CIRCUMSTANCES, THE BARRIERS WILL BE POSITIONED TO DEFLECT MIGRATING/DISPERSAL ROUTES AWAY FROM THE WORK ZONE TO MINIMIZE POTENTIAL ENCOUNTERS WITH TURTLES.

c. THE FENCING WILL CONSIST OF NON-REINFORCED CONVENTIONAL EROSION CONTROL WOVEN FABRIC, INSTALLED APPROXIMATELY SIX INCHES BELOW SURFACE GRADE AND STAKED AT SEVEN TO TEN-FOOT INTERVALS USING FOUR-FOOT OAK STAKES OR APPROVED EQUIVALENT. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTIONS OF THE FENCING FOR TEARS OR BREECHES IN THE FABRIC AND ACCUMULATION LEVELS OF SEDIMENT, PARTICULARLY FOLLOWING STORM EVENTS THAT GENERATE A DISCHARGE. APT WILL PROVIDE PERIODIC INSPECTIONS OF THE FENCING THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES ONLY AS IT PERTAINS TO PROTECTION OF RARE SPECIES AND NEARBY WETLANDS. THIRD PARTY MONITORING OF SEDIMENTATION AND EROSION CONTROLS WILL BE PERFORMED BY OTHER PARTIES, AS NECESSARY, UNDER APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS.

d. THE EXTENT OF THE BARRIER FENCING WILL BE AS SHOWN ON THE SITE PLANS. THE CONTRACTOR SHALL HAVE ADDITIONAL BARRIER FENCING AND SEDIMENTATION AND EROSION CONTROL MATERIALS STORED ON SITE SHOULD FIELD OR CONSTRUCTION CONDITIONS WARRANT EXTENDING/ADDING THE FENCING/CONTROLS AS DIRECTED BY APT.

e. NO EQUIPMENT, VEHICLES OR CONSTRUCTION MATERIALS SHALL BE STORED OUTSIDE OF THE ISOLATION BARRIER FENCING.

f. ALL SILT FENCING AND SEDIMENTATION AND EROSION CONTROLS SHALL BE REMOVED WITHIN 30 DAYS OF COMPLETION OF WORK AND PERMANENT STABILIZATION OF SITE SOILS SO THAT REPTILE AND AMPHIBIAN MOVEMENT BETWEEN UPLANDS AND WETLANDS IS NOT RESTRICTED.

2. CONTRACTOR EDUCATION

a. PRIOR TO WORK ON SITE, THE CONTRACTOR SHALL ATTEND AN EDUCATIONAL SESSION AT THE PRE-CONSTRUCTION MEETING WITH APT. THIS ORIENTATION AND EDUCATIONAL SESSION WILL CONSIST OF AN INTRODUCTORY MEETING WITH APT PROVIDING PHOTOS OF WOOD TURTLES AND EMPHASIZING THE NON-AGGRESSIVE NATURE OF THESE TURTLES, THE ABSENCE OF NEED TO DESTROY ANIMALS THAT MIGHT BE ENCOUNTERED AND THE NEED TO FOLLOW PROTECTIVE MEASURES AS DESCRIBED IN SECTION 4 BELOW. WORKERS WILL ALSO BE PROVIDED INFORMATION REGARDING THE IDENTIFICATION OF OTHER TURTLES, SNAKES AND COMMON HERPETOFAUNA SPECIES THAT COULD BE ENCOUNTERED.

b. THE EDUCATION SESSION WILL ALSO FOCUS ON MEANS TO DISCRIMINATE BETWEEN THE SPECIES OF CONCERN AND OTHER NATIVE SPECIES TO AVOID UNNECESSARY "FALSE ALARMS". ENCOUNTERS WITH ANY SPECIES OF TURTLES WILL BE DOCUMENTED.

c. THE CONTRACTOR WILL BE PROVIDED WITH CELL PHONE AND EMAIL CONTACTS FOR APT PERSONNEL TO IMMEDIATELY REPORT ANY ENCOUNTERS WITH WOOD TURTLE OR OTHER TURTLE SPECIES. EDUCATIONAL POSTER MATERIALS WILL BE PROVIDED BY APT AND DISPLAYED ON THE JOB SITE TO MAINTAIN WORKER AWARENESS AS THE PROJECT PROGRESSES.

3. PETROLEUM MATERIALS STORAGE AND SPILL PREVENTION

a. CERTAIN PRECAUTIONS ARE NECESSARY TO STORE PETROLEUM MATERIALS, REFUEL AND CONTAIN AND PROPERLY CLEAN UP ANY INADVERTENT FUEL OR PETROLEUM (I.E., OIL, HYDRAULIC FLUID, ETC.) SPILL TO AVOID POSSIBLE IMPACT TO NEARBY WETLANDS AND WILDLIFE HABITATS.

b. A SPILL CONTAINMENT KIT CONSISTING OF A SUFFICIENT SUPPLY OF ABSORBENT PADS AND ABSORBENT MATERIAL WILL BE MAINTAINED BY THE CONTRACTOR AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT. IN ADDITION, A WASTE DRUM WILL BE KEPT ON SITE TO CONTAIN ANY USED ABSORBENT PADS/MATERIAL FOR PROPER AND TIMELY DISPOSAL OFF SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

c. THE FOLLOWING PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING RESTRICTIONS AND SPILL RESPONSE PROCEDURES WILL BE ADHERED TO BY THE CONTRACTOR.

i. PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING

1. REFUELING OF VEHICLES OR MACHINERY SHALL OCCUR A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES AND SHALL TAKE PLACE ON AN IMPERVIOUS PAD WITH SECONDARY CONTAINMENT DESIGNATED TO CONTAIN FUELS.

2. ANY FUEL OR HAZARDOUS MATERIALS THAT MUST BE KEPT ON SITE SHALL BE STORED ON AN IMPERVIOUS SURFACE UTILIZING SECONDARY CONTAINMENT A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES.

ii. INITIAL SPILL RESPONSE PROCEDURES

1. STOP OPERATIONS AND SHUT OFF EQUIPMENT.

2. REMOVE ANY SOURCES OF SPARK OR FLAME.

3. CONTAIN THE SOURCE OF THE SPILL.

4. DETERMINE THE APPROXIMATE VOLUME OF THE SPILL.

5. IDENTIFY THE LOCATION OF NATURAL FLOW PATHS TO PREVENT THE RELEASE OF THE SPILL TO SENSITIVE NEARBY WATERWAYS OR WETLANDS.

6. ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL.

iii. SPILL CLEAN UP & CONTAINMENT

1. OBTAIN SPILL RESPONSE MATERIALS FROM THE ON-SITE SPILL RESPONSE KIT. PLACE ABSORBENT MATERIALS DIRECTLY ON THE RELEASE AREA.

2. LIMIT THE SPREAD OF THE SPILL BY PLACING ABSORBENT MATERIALS AROUND THE PERIMETER OF THE SPILL.

3. ISOLATE AND ELIMINATE THE SPILL SOURCE.

4. CONTACT THE APPROPRIATE LOCAL, STATE AND/OR FEDERAL AGENCIES, AS NECESSARY.

5. CONTACT A DISPOSAL COMPANY TO PROPERLY DISPOSE OF CONTAMINATED MATERIALS.

iv. REPORTING

1. COMPLETE AN INCIDENT REPORT.

2. SUBMIT A COMPLETED INCIDENT REPORT TO THE CONNECTICUT SITING COUNCIL AND ANY OTHER APPLICABLE LOCAL, STATE AND/OR FEDERAL AGENCIES.

4. TURTLE PROTECTIVE MEASURES

a. PRIOR TO THE START OF CONSTRUCTION EACH DAY, THE CONTRACTOR SHALL SEARCH THE ENTIRE WORK AREA FOR TURTLES.

b. IF A TURTLE IS FOUND, IT SHALL BE IMMEDIATELY MOVED, UNHARMED, BY CAREFULLY GRASPED IN BOTH HANDS, ONE ON EACH SIDE OF THE SHELL, BETWEEN THE TURTLE'S FORELIMBS AND THE HIND LIMBS, AND PLACED JUST OUTSIDE OF THE ISOLATION BARRIER IN THE SAME APPROXIMATE DIRECTION IT WAS WALKING.

c. SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR DURING EARLY MORNING AND EVENING HOURS SO THAT POSSIBLE BASKING OR FORAGING TURTLES ARE NOT HARMED BY CONSTRUCTION ACTIVITIES.

5. HERBICIDE AND PESTICIDE RESTRICTIONS

a. IN THE EVENT HERBICIDES AND/OR PESTICIDES ARE REQUIRED AT THE PROPOSED FACILITY, THEIR USE WILL BE USED IN ACCORDANCE WITH INTEGRATED PEST MANAGEMENT ("IPM") PRINCIPLES WITH PARTICULAR ATTENTION TO MINIMIZE APPLICATIONS WITHIN 100 FEET OF WETLAND OR WATERCOURSE RESOURCES. NO APPLICATIONS OF HERBICIDES OR PESTICIDES ARE ALLOWED WITHIN ACTUAL WETLAND OR WATERCOURSE RESOURCES.

6. REPORTING

a. DAILY COMPLIANCE MONITORING REPORTS (BRIEF NARRATIVE AND APPLICABLE PHOTOS) DOCUMENTING EACH APT INSPECTION WILL BE SUBMITTED TO FUSION SOLAR FOR COMPLIANCE VERIFICATION. ANY OBSERVATIONS OF TURTLES WILL BE INCLUDED IN THE REPORTS.

b. FOLLOWING COMPLETION OF THE CONSTRUCTION PROJECT, APT WILL PROVIDE A COMPLIANCE MONITORING SUMMARY REPORT TO FUSION SOLAR DOCUMENTING IMPLEMENTATION OF THE RARE SPECIES AND WETLAND PROTECTION PROGRAM, MONITORING AND ANY SPECIES OBSERVATIONS. FUSION SOLAR WILL PROVIDE A COPY OF THE COMPLIANCE MONITORING SUMMARY REPORT TO THE CONNECTICUT SITING COUNCIL FOR COMPLIANCE VERIFICATION.

c. ANY OBSERVATIONS OF WOOD TURTLE WILL BE REPORTED TO CTDEEP BY APT, WITH PHOTO-DOCUMENTATION (IF POSSIBLE) AND WITH SPECIFIC INFORMATION ON THE LOCATION AND DISPOSITION OF THE ANIMAL.

BOBOLINK PROTECTION PROGRAM

THE SOUTHERN END OF THE PROPOSED SOLAR FACILITY ENCOMPASSES A ±10-ACRE MOWED HAYFIELD. THIS HAYFIELD HAS BEEN OBSERVED TO SUPPORT BOBOLINK, A STATE-LISTED SPECIAL CONCERN SPECIES AFFORDED PROTECTION UNDER THE CONNECTICUT ENDANGERED SPECIES ACT. THEREFORE, MEASURES SHOULD BE TAKEN TO AVOID INCIDENTAL TAKE OF BOBOLINK DURING CONSTRUCTION. IDEALLY, THE HAYFIELD VEGETATION SHOULD BE REMOVED DURING THE NON-BREEDING SEASON (SEPTEMBER TO APRIL) IN ORDER TO PREVENT ATTRACTION OF BOBOLINK DURING SPRING MIGRATION AND SPRING-SUMMER BREEDING SEASON. IF THIS IS NOT FEASIBLE, HAY MOWING ACTIVITIES SHOULD BE DELAYED UNTIL MID-JULY OR EARLY AUGUST TO ALLOW GRASSLAND BIRDS TO COMPLETE MOST NESTING ACTIVITIES. IF DELAYED MOWING IS NOT FEASIBLE AND CONSTRUCTION ACTIVITIES MUST BE CONDUCTED DURING THE BREEDING SEASON, THE FOLLOWING MEASURES CAN BE TAKEN TO MINIMIZE IMPACTS ON NESTING BOBOLINK.

1. HAYFIELDS SHOULD BE MOWED FROM THE FIELD CENTER OUTWARD TO ALLOW BIRDS TO ESCAPE TO ADJACENT HABITATS.

2. FIELDS CAN BE BROKEN INTO SUB-UNITS AND MOWED ON A ROTATIONAL BASIS TO ALLOW FOR SOME USEABLE HABITAT TO BE AVAILABLE AT ALL TIMES.

3. ADULT NESTING BIRDS AND ROOSTING INDIVIDUALS ARE LESS LIKELY TO FLUSH FROM COVER DURING THE NIGHT. THEREFORE, NIGHT MOWING SHOULD BE AVOIDED TO PREVENT ADULT BIRD MORTALITY.

4. FLUSHING BARS SHOULD BE MOUNTED ON HARVESTING EQUIPMENT TO MINIMIZE BIRD MORTALITY DURING MOWING OPERATIONS.

GENERAL BREEDING BIRD PROTECTION MEASURES

THE PROPOSED CONSTRUCTION ACTIVITIES WILL RESULT IN THE CLEARING OF TREES AND MATURE VEGETATION THAT HAS THE POTENTIAL TO SUPPORT BREEDING BIRDS. ONCE A CONSTRUCTION SCHEDULE IS DETERMINED, APT WILL EVALUATE WHETHER THE POTENTIAL EXISTS FOR BREEDING BIRD NEST DISTURBANCE AND DEVELOP A PLAN ACCORDINGLY. TO AVOID POTENTIAL DISTURBANCE DURING PERIODS OF HIGH BIRD NESTING ACTIVITY, APT RECOMMENDS USE OF THE FOLLOWING SCHEDULE AS A GENERAL GUIDELINE. IF CONSTRUCTION ACTIVITIES SHOULD OCCUR DURING THE PEAK NESTING PERIOD OF MAY 1ST THROUGH AUGUST 15TH, EFFORTS SHOULD BE TAKEN TO COMPLETE TREE CLEARING WORK PRIOR TO MAY 1ST, OR, IF TREE CLEARING HAS NOT BEEN COMPLETED BY MAY 1ST, AN AVIAN SURVEY WILL BE PERFORMED BY APT TO DETERMINE IF A SIGNIFICANT NUMBER OF BREEDING BIRDS WOULD BE DISTURBED. IF THE AVIAN SURVEY CONCLUDES THAT A SIGNIFICANT NUMBER OF BREEDING BIRDS WOULD BE DISTURBED, TREE CLEARING ACTIVITIES MAY BE RESTRICTED THROUGH THE PEAK NESTING PERIOD (OR A MODIFIED TIME FRAME BASED ON THE SPECIFIC FINDINGS OF THE SURVEY).

WILDLIFE HABITAT ENHANCEMENT MEASURES

TREE CLEARING ACTIVITIES BEYOND THE PROPOSED SOLAR FACILITY'S PERIMETER FENCE ARE NECESSARY TO PREVENT SHADING OF THE SOLAR ARRAYS. THERE ARE TWO ZONES WITHIN THIS TREE CLEARING AREA: 1) WITHIN 30 FEET OF THE PERIMETER FENCE; AND, 2) BEYOND 30 FEET, WHICH REQUIRE DIFFERENT CLEARING METHODS.

THE 30 FOOT ZONE IMMEDIATELY AROUND THE PERIMETER FENCE WILL BE CLEARED AND GRUBBED OF TREES AND STUMPS. SPECIAL PRECAUTIONS SHALL BE EMPLOYED DURING CLEARING AND GRUBBING ACTIVITIES TO PROTECT AND RETAIN AS MUCH NATIVE UNDERSTORY SHRUB AND HERBACEOUS MATERIAL AS REASONABLY POSSIBLE. ASIDE FROM TEMPORARY AND PERMANENT STORMWATER MANAGEMENT FEATURES LOCATED IN THIS ZONE, NO GRADING ACTIVITIES WILL OCCUR OTHER THAN MINOR GRADING TO REESTABLISH ORIGINAL GRADES ONCE STUMP REMOVAL ACTIVITIES HAVE BEEN COMPLETED. ANY DISTURBED AND EXPOSED SOILS WILL BE SEEDED WITH A BLEND OF NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES AND NEW ENGLAND CONSERVATION/WILDLIFE MIX (NEW ENGLAND WETLAND PLANTS INC./NEWP.COM/413.549.8000, OR APPROVED EQUIVALENT) AT THE RESPECTIVE RATIO BY WEIGHT OF A 80/20 BLEND. THIS AREA SHALL BE MANAGED FOR WILDLIFE HABITAT BY RESTRICTING MOWING ON A ROTATION BASIS EVERY 4 TO 7 YEARS. THIS WILL ALLOW THE AREA TO REVERT TO A SCRUB-SHRUB HABITAT AND CREATE A "SOFT" ECOTONE THAT WILL PROVIDE COVER AND HABITAT FOR A NUMBER OF FOREST-DWELLING WILDLIFE AND EDGE NESTING BIRDS.

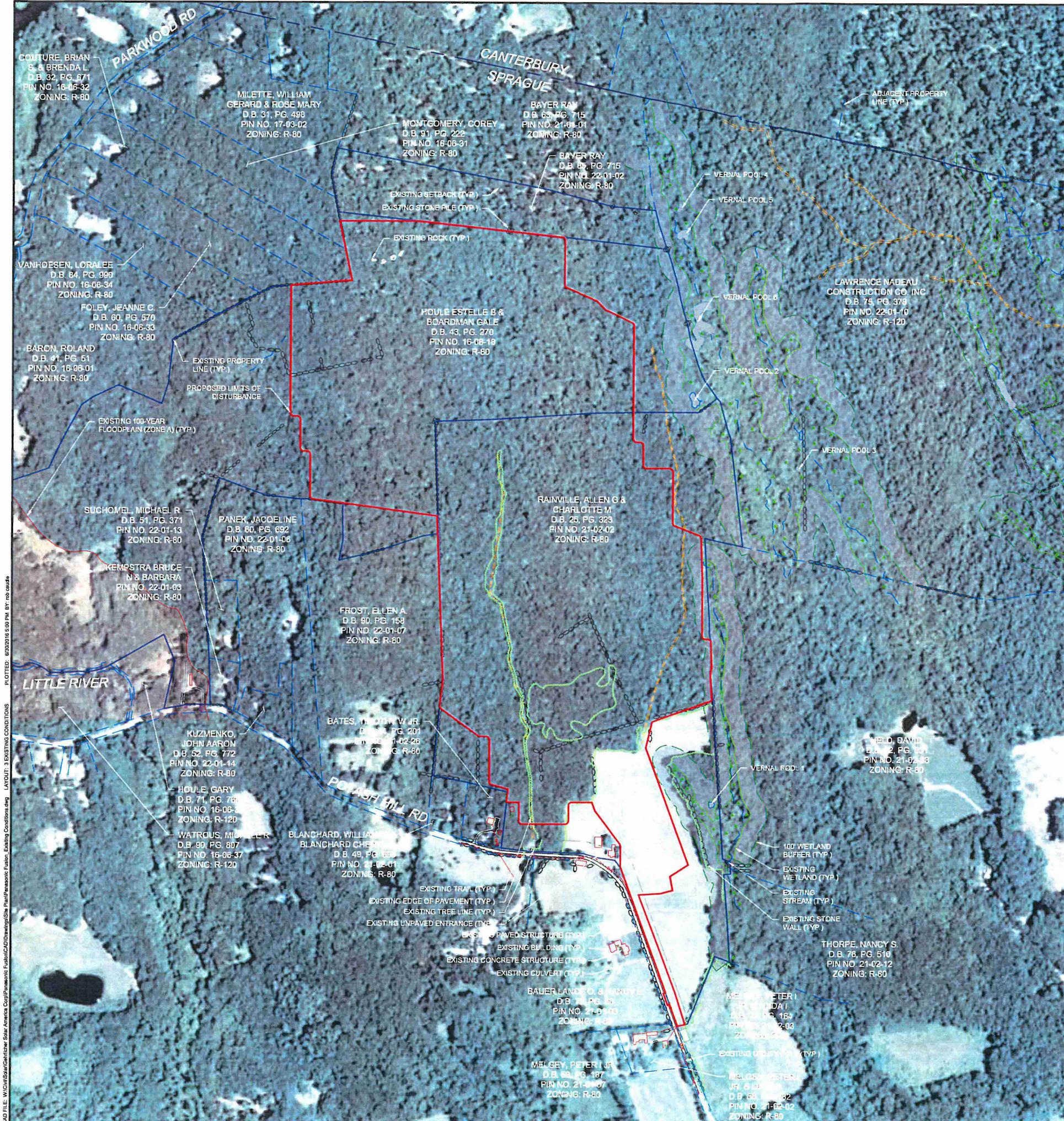
THE ZONE BEYOND 30 FEET UP TO THE LIMIT OF CLEARING LINE SHALL BE CLEARED OF TREES, USING THE SAME PRECAUTIONS IDENTIFIED WITHIN THE 30 FOOT ZONE, BUT WILL NOT INCLUDE GRUBBING OF STUMPS. ANY DISTURBED AND EXPOSED SOILS WILL BE SEEDED WITH A BLEND OF NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES AND NEW ENGLAND CONSERVATION/WILDLIFE MIX (NEW ENGLAND WETLAND PLANTS INC./NEWP.COM/413.549.8000, OR APPROVED EQUIVALENT) AT THE RESPECTIVE RATIO BY WEIGHT OF A 80/20 BLEND. THIS AREA SHALL BE MANAGED FOR WILDLIFE HABITAT BY RESTRICTING MOWING AND INCLUDE SELECTIVE TREE SAPLING REMOVAL ON A ROTATION BASIS EVERY 4 TO 7 YEARS. THIS WILL ALLOW THE AREA TO REVERT TO A SCRUB-SHRUB HABITAT AND CREATE A "SOFT" ECOTONE THAT WILL PROVIDE COVER AND HABITAT FOR A NUMBER OF FOREST-DWELLING WILDLIFE AND EDGE NESTING BIRDS.



500 Enterprise Drive, Suite 4B
Rocky Hill, CT 06067
Phone: 888-563-7775
www.kleinfelder.com

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE



500 Enterprise Drive, Suite 4B
Rocky Hill, CT 06067
Phone: 860-563-7775
www.kleinfelder.com

LEGEND

Legend for the site plan:

- 300 - EXISTING MAJOR CONTOUR (10')
- EXISTING MINOR CONTOUR (2')
- EXISTING PROPERTY BOUNDARY
- EXISTING ABUTTING PROPERTY BOUNDARY
- EXISTING CITY LIMITS
- EXISTING TREELINE
- EXISTING ROAD
- EXISTING TRAIL
- EXISTING STREAM
- EXISTING UNPAVED ROAD
- EXISTING BUILDING
- EXISTING CONCRETE STRUCTURE
- EXISTING STONE WALL
- EXISTING SETBACK
- 100' WETLAND BUFFER
- OME - - OME - EXISTING OVERHEAD ELECTRIC LINES
- PROJECT BOUNDARY

REVISION

GENERAL NOTES

1. SURVEY PROVIDED BY FUSS AND ONEIL, INC., DATED 05/29/2015.

2. WETLAND AND STREAM DELINEATION PROVIDED BY ALL-POINTS TECHNOLOGY CORPORATION, P.C.'S ENVIRONMENTAL ASSESSMENT, DATED JULY, 2015.

3. PARCEL INFORMATION:

PROPERTY OWNER: HOULE, ESTELLE B & BOARDMAN GALE
PIN: 16-06-18
DEED BOOK: 43 **PAGE:** 270

PROPERTY OWNER: RAINVILLE, ALLEN G. & CHARLOTTE M.
PIN: 21-02-02
DEED BOOK: 25 **PAGE:** 323

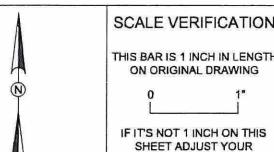
PROPERTY OWNER: BAYER, RAY
PIN: 22-01-02
DEED BOOK: 65 **PAGE:** 715

4. EXISTING SETBACKS:
- FRONT: 100' (R-120), 75' (R-80)
- SIDE: 35' (R-120), 25' (R-80)
- BACK: 75' (R-120), 50' (R-80)

5. THE PROPERTY DOES NOT CONTAIN SPECIAL FLOOD HAZARD AREAS PER FEMA FIRM MAP PANEL NO. 09011c00686G, DATED 7/18/2011

6. NO SHOTWEEPS, CRANES, AND WILDLIFE RESTRICTED

**ISSUED FOR
PERMITTING**



A vertical scale verification bar on the left side of the drawing. It features a series of tick marks and a central vertical line. To the right of the bar, the text "SCALE VERIFICATION" is written in all caps. Below the bar, the text "THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING" is centered. At the bottom right, there is a rectangular box containing the numbers "0" and "1". Below this box, the text "IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR" is centered.

300 150 0 300

SCALE: 1 INCH = 300 FEET

FUSION SOLAR CENTER
POTASH RD

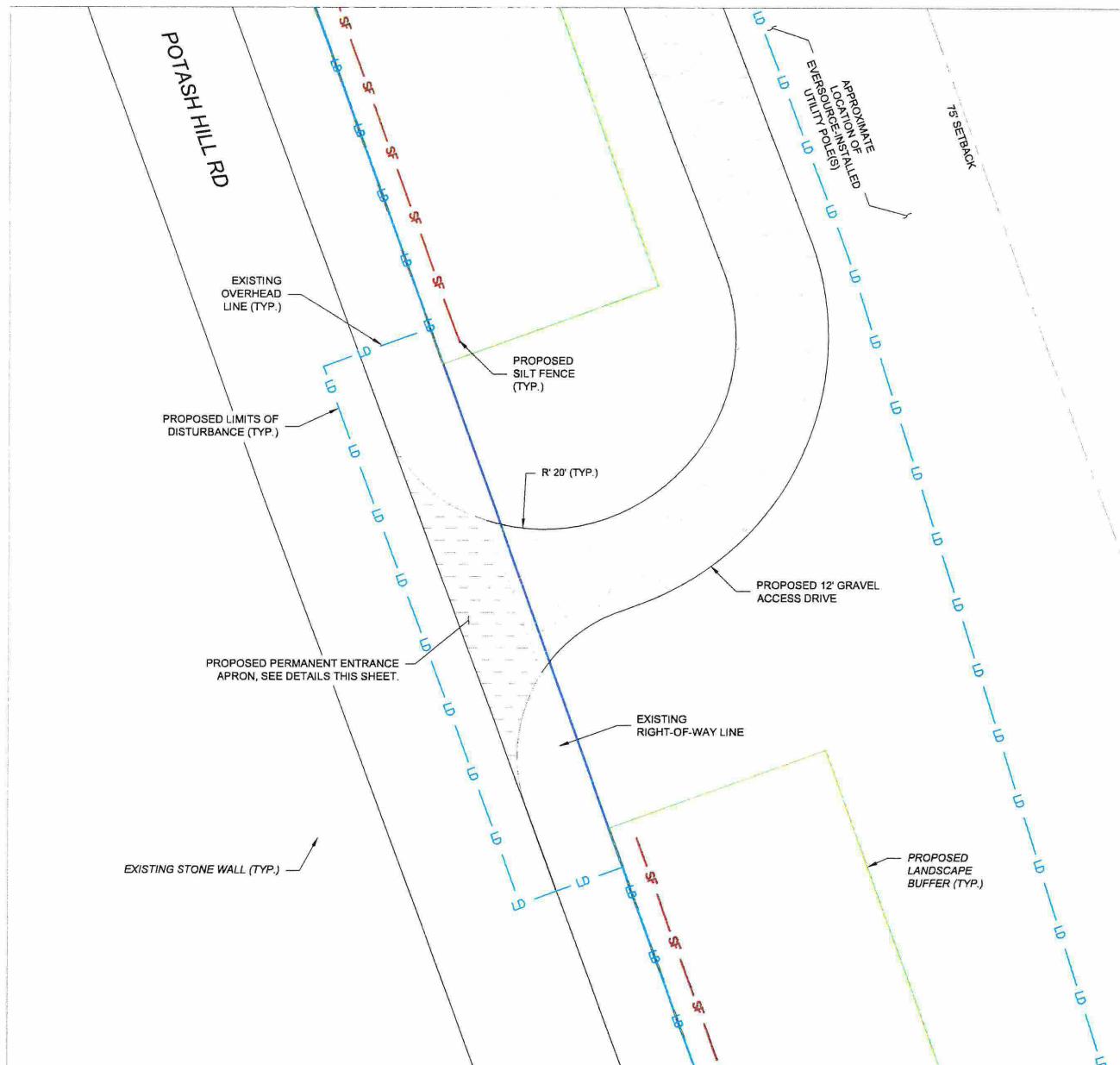
HRLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

CONSTRUCTION

O. 20163850.001A
E 06/30/2016
REVISION -
BY JS
RGC
Y RGC
BX CS SHEET 3 of 10

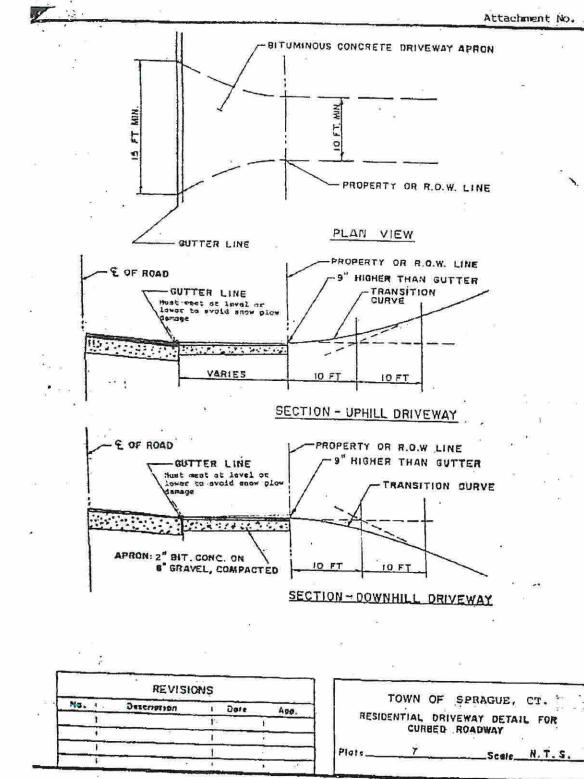
6-3

**ISSUED FOR
PERMITTING**



DRIVEWAY INSE
SCALE: 1" = 10'

SCALE: 1" =



DRIVEWAY DETAIL (SEE PERMIT APPLICATION)
NOT TO SCALE

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH
ON ORIGINAL DRAWING

0 1"

IF IT'S NOT 1 INCH IN LENGTH
ON THIS SHEET ADJUST YOUR
SCALES ACCORDINGLY

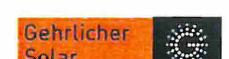
10 5 0 10

SCALE: 1 INCH = 10 FEET

ORIGINAL DRAWING SIZE IS 24 x 36

DRIVeway EXHIBIT

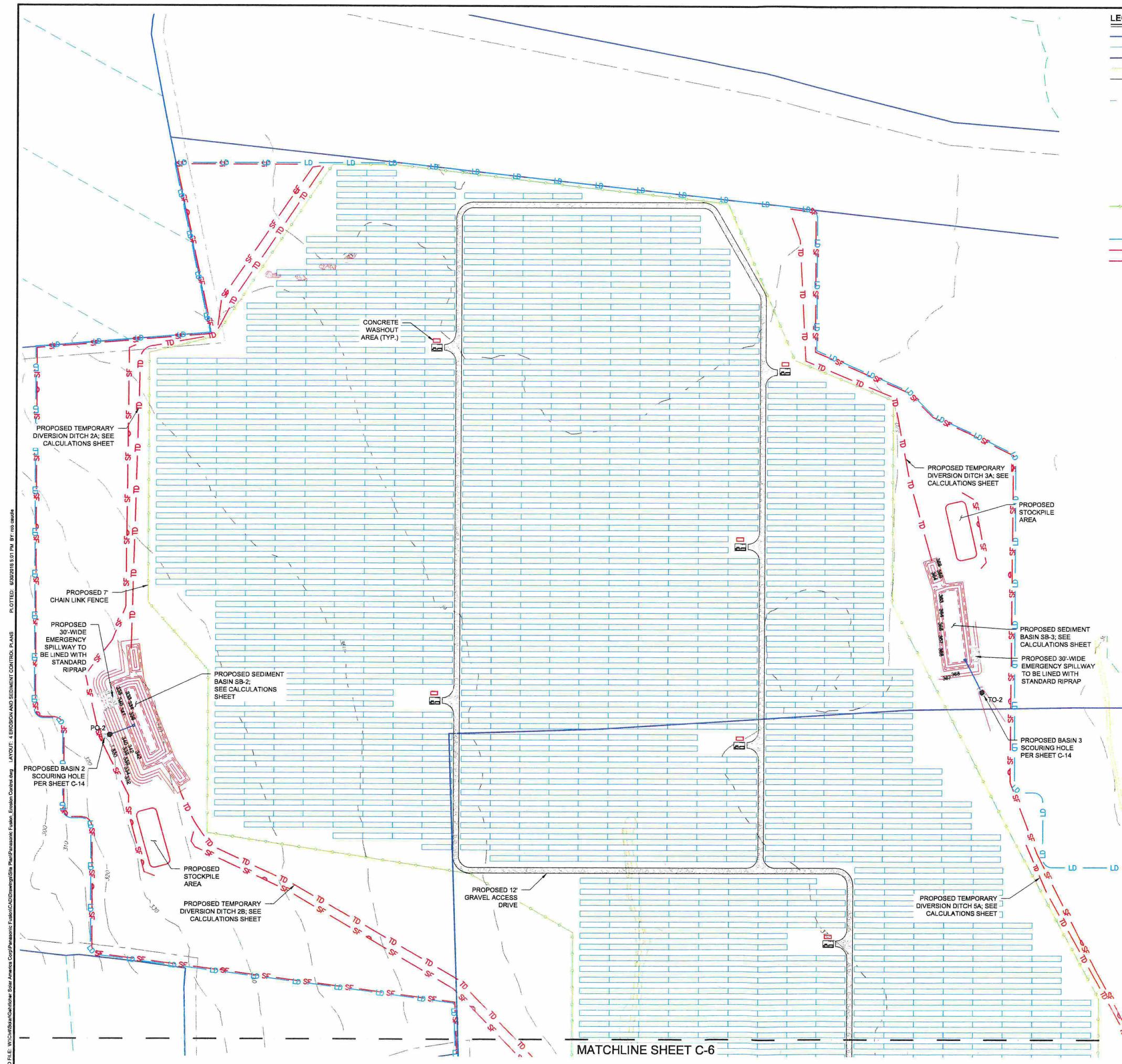
FUSION SOLAR CENTER
POTASH RD
SPRAGUE, CT 06630



GEHRLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

CONSTRUCTION	
PROJECT NO.	20163850.001A
SUE DATE	06/30/2016
CURRENT REVISION	-
DESIGNED BY	JS
DRAWN BY	RGC
CHECKED BY	RGC
APPROVED BY	SC
SHEET 4 of 16	

C-4



LEGEND

LEGEND

EXISTING PROPERTY BOUNDARY
EXISTING ABUTTING PROPERTY BOUNDARY
EXISTING CITY LIMITS
EXISTING TREELINE
EXISTING ROAD
EXISTING TRAIL
EXISTING STREAM
EXISTING VERNAL POOL
EXISTING WETLAND
100' WETLAND BUFFER
PROPOSED SOLAR ARRAY
PROPOSED INVERTER
PROPOSED FENCE
PROPOSED ACCESS DRIVE
LIMITS OF DISTURBANCE
PROPOSED SILT FENCE
PROPOSED TEMPORARY DIVERSION DITCH
PROPOSED ROCK CONSTRUCTION ENTRANCE
PROPOSED SILT FENCE OUTLETS
OUTFALL LOCATION

TO-8

EROSION CONTROL NOTES

1. ALL LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH CT STANDARDS AND SPECIFICATIONS.
2. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED IN PROPER WORKING CONDITION DURING THE PERIOD OF CONSTRUCTION. SKIMMER SEDIMENT BASIN SHALL BE CLEANED OUT WHEN 50% OF THE VOLUME IS FULL OF SEDIMENT. SILT FENCE IS TO BE CLEANED WHEN HALF THE FENCE IS OVERWHELMED BY SEDIMENT.
3. PLACE SILT FENCE OUTLETS AT LOW POINTS ALONG SILT FENCE AS NECESSARY.
4. ADDITIONAL EROSION CONTROL MEASURES AND/OR MODIFICATIONS TO PROPOSED MEASURES MAY BE NECESSARY DEPENDING ON ACTUAL SITE CONDITIONS.
5. EROSION CONTROL DEVICES ARE TO BE INSTALLED BASED ON DETAILS PROVIDED UNDER THE APPROVED PLANS. THE PLANS AND DETAILS ARE BASED ON THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL.
6. A RAIN GAUGE SHALL BE KEPT ON-SITE. THE CONTRACTOR SHALL INSPECT ALL E&SC MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT THAT GENERATES A DISCHARGE. REPAIRS SHALL BE MADE TO E&SC MEASURES IMMEDIATELY. RECORD OF INSPECTIONS AND ANY CORRECTIVE ACTIONS SHALL BE KEPT ON SITE.
7. DEDICATED DEMOLITION AND OTHER WASTE AREAS AND EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FROM STORM DRAINS OR STREAMS UNLESS NO ALTERNATIVE IS FEASIBLE.
8. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTOR. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE EROSION CONTROL INSPECTOR THAT ARE NOT INDICATED ON THE PLANS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN EROSION ONSITE, REGARDLESS OF THE MEASURES REQUIRED. ANY CHANGE IN THE EROSION CONTROL MEASURES AND/OR GRADING SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND THE EROSION CONTROL INSPECTOR.
9. WEATHER FORECAST SHALL BE MONITORED. THE CONTRACTOR SHALL PREPARE FOR RAIN EVENTS BY RE-EXAMINING ALL EROSION CONTROL MEASURES PRIOR TO START OF PRECIPITATION. ANY RE-ENFORCEMENT OR CORRECTIONS SHOULD BE PERFORMED AND DOCUMENTED.
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11. NORTH AMERICAN GREEN S150BN EROSION CONTROL MATTING SHALL

**ISSUED FOR
PERMITTING**



SCALE VERIFICATION
THIS BAR IS 1 INCH IN LENGTH
ON ORIGINAL DRAWING

0 1"

IF IT'S NOT 1 INCH ON THIS
SHEET ADJUST YOUR
SCALES ACCORDINGLY

Digitized by srujanika@gmail.com

0 0 100
E: 1 INCH = 100 FEET

ND SEDIMENT CONTROL
PLANS

licher

R SOLAR AMERICA CORP.
1 FADEM ROAD
MENASHEE, NEW JERSEY 07043

CONSTRUCTION

PROJECT NO.	20163850.001A
SUE DATE	06/30/2016
CURRENT REVISION	-
DESIGNED BY	JS
DRAWN BY	RGC
CHECKED BY	RGC
APPROVED BY	SC
SHEET	
5 of 16	

LEGEND

LEGEND

EXISTING PROPERTY BOUNDARY
EXISTING ABUTTING PROPERTY BOUNDARY
EXISTING CITY LIMITS
EXISTING TREELINE
EXISTING ROAD
EXISTING TRAIL
EXISTING STREAM

EXISTING VERNAL POOL

EXISTING WETLAND

100' WETLAND BUFFER

PROPOSED SOLAR ARRAY

PROPOSED INVERTER

PROPOSED FENCE

PROPOSED ACCESS DRIVE

LD LD LD LIMITS OF DISTURBANCE

SF SF PROPOSED SILT FENCE

TD TD PROPOSED TEMPORARY DIVERSION DITCH

PROPOSED ROCK CONSTRUCTION ENTRANCE

PROPOSED SILT FENCE OUTLETS

OUTFALL LOCATION

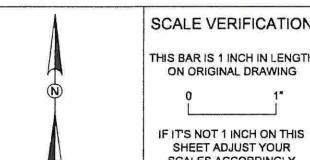
TO-8

PROPOSED LANDSCAPE BUFFER

**ISSUED FOR
PERMITTING**

EROSION CONTROL NOTES

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11. NORTH AMERICAN GREEN S150BN EROSION CONTROL MATTING SHALL



A rectangular block containing text and a scale bar. The text reads 'SCALE VERIFICATION' at the top and 'THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING' below it. At the bottom is a scale bar with '0' on the left and '1"' on the right, with a vertical line between them.

100 50 0 100

ORIGINAL DRAWING SIZE IS 24 x 36
EROSION AND SEDIMENT CONTROL

FUSION SOLAR CENTER
POTASH RD
SPRINGFIELD, CT 06060



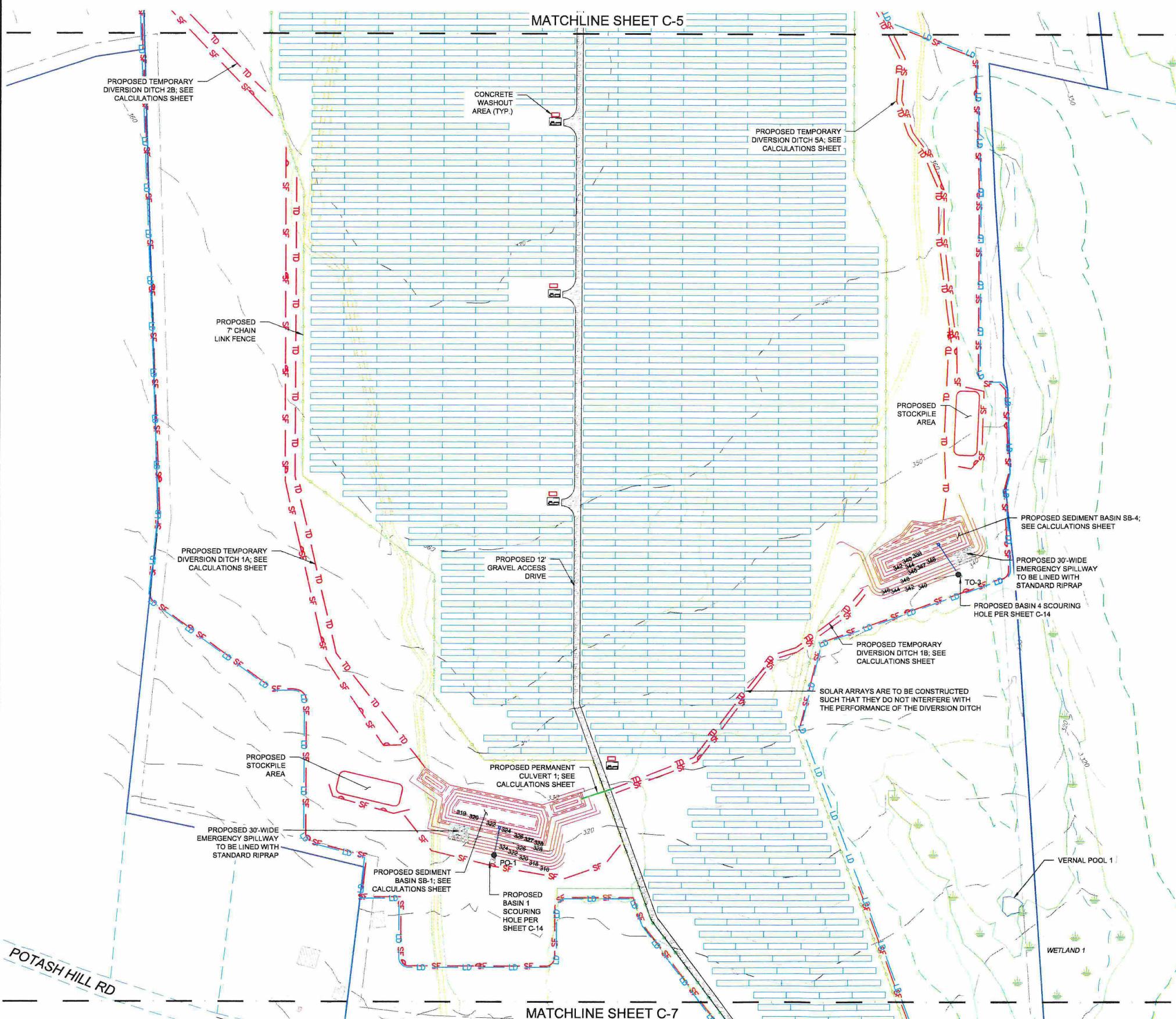
EHRLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

CONSTRUCTION

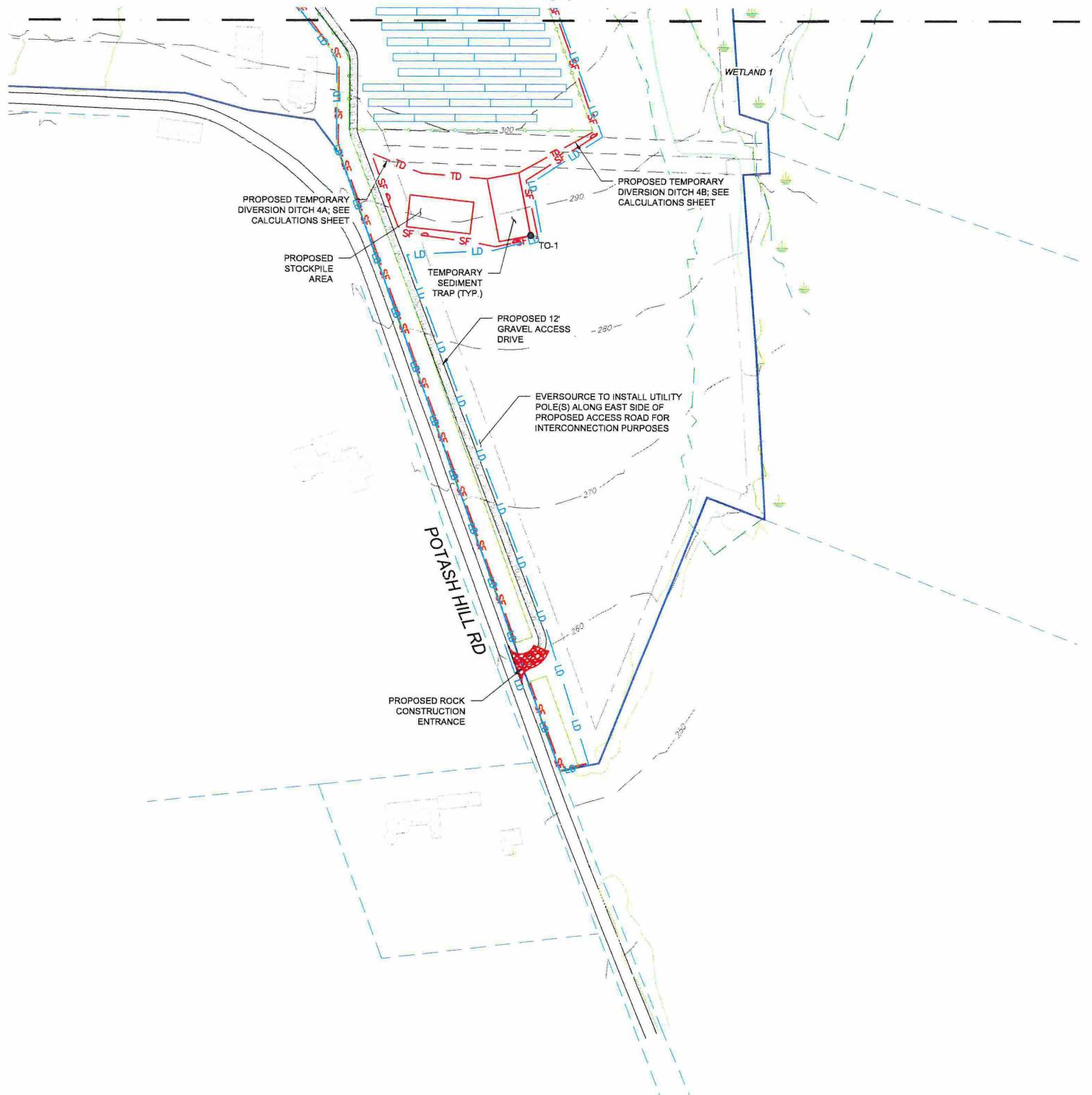
JECT NO. 20163850.001A	
IE DATE	06/30/2016
RENT REVISION	-
DNEY BY	JS
WN BY	RGC
CKED BY	RGC
ROVED BY	SC
SHEET 6 of 16	

MATCHLINE SHEET C

MATCHLINE SHEET C-1



MATCHLINE SHEET C-6



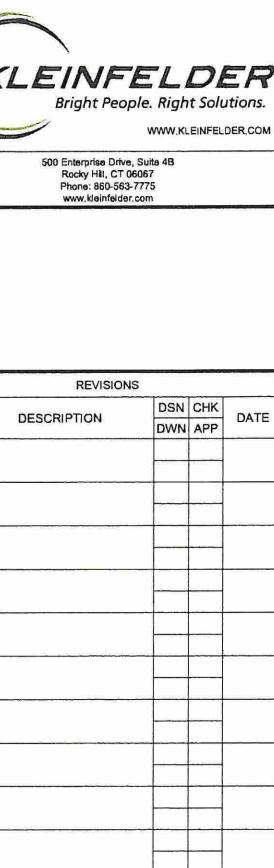
LEGEND

LEGEND

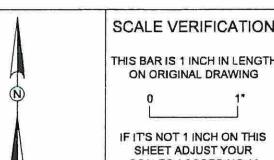
- EXISTING PROPERTY BOUNDARY
- EXISTING ABUTTING PROPERTY BOUNDARY
- EXISTING CITY LIMITS
- EXISTING TREELINE
- EXISTING ROAD
- EXISTING TRAIL
- EXISTING STREAM
- EXISTING VERNAL POOL
- EXISTING WETLAND
- 100' WETLAND BUFFER
- PROPOSED SOLAR ARRAY
- PROPOSED INVERTER
- PROPOSED FENCE
- PROPOSED ACCESS DRIVE
- LD LD LD LIMITS OF DISTURBANCE
- SF SF PROPOSED SILT FENCE
- TD TD PROPOSED TEMPORARY DIVERSION DITCH
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED SILT FENCE OUTLETS
- OUTFALL LOCATION
- TO-8
- PROPOSED LANDSCAPE BUFFER

EROSION CONTROL NOTES

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11. NORTHERN AMERICAN GREEN S150BN EROSION CONTROL MATTING SHALL BE PLACED DUAL-LAYER OVERLAYER THAN 74"



**ISSUED FOR
PERMITTING**



A scale bar with markings at 0, 50, and 100. A vertical line is drawn at the 50 mark. Below the scale bar, the text "SCALE: 1 INCH = 100 FEET" is written.

ORIGINAL DRAWING SIZE IS 24 x 36
EROSION AND SEDIMENT CONTROL

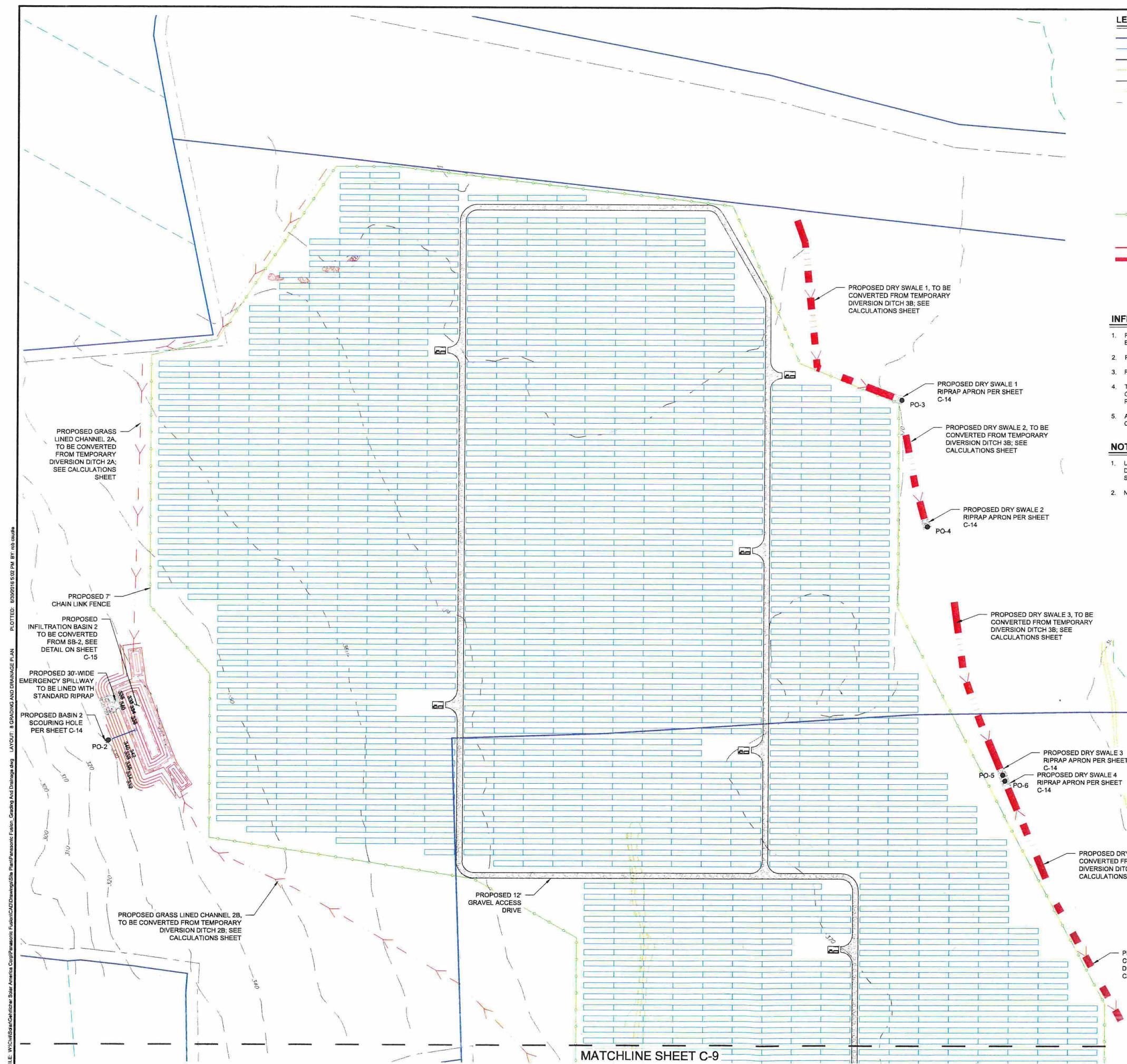
Gehrlicher
Solar

GEHRLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

CONSTRUCTION

EC NO.	20163850.001A
DATE	06/30/2016
RENT REVISION	-
SIGNED BY	JS
WVN BY	RGC
REKED BY	RGC
OVER BY	SC
SHEET	

G-7



LEGE

LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING ABUTTING PROPERTY BOUNDARY
- EXISTING CITY LIMITS
- EXISTING TREELINE
- EXISTING ROAD
- EXISTING TRAIL
- EXISTING STREAM
- EXISTING VERNAL POOL
- EXISTING WETLAND
- 100' WETLAND BUFFER
- PROPOSED SOLAR ARRAY
- PROPOSED INVERTER
- PROPOSED FENCE
- PROPOSED ACCESS DRIVE
- PROPOSED GRASS LINED CHANNEL
- PROPOSED DRY SWALE
- LANDSCAPE BUFFER

INFILTRATION BASIN CONSTRUCTION SEQUENCE

1. REMOVE SKIMMER AND CLEAN OUT ACCUMULATED SEDIMENT VIA SILT BAG.
2. PERFORM ANY NECESSARY GRADING TO MATCH PROPOSED GRADES.
3. REFERENCE DETAIL SHEET C-15 FOR FINAL OUTLET STRUCTURE DETAILS.
4. THE INFILTRATION BASIN AND SIDE SLOPES SHALL BE PLANTED WITH GRASS, HYBRID BERMUDA, CENTIPEDE, OR FESCUE/BLUEGRASS ARE RECOMMENDED.
5. ALL CONSTRUCTION, MONITORING, AND MAINTENANCE GUIDELINES IN THE CTDEP STORMWATER BMP MANUAL SHALL BE FOLLOWED.

NOTES

1. UPON COMPLETION OF CONSTRUCTION PHASE TEMPORARY DIVERSION DITCHES SHOULD BE CONVERTED TO GRASS LINED CHANNELS AND DRY SWALES ACCORDINGLY.
2. NO SIGNIFICANT GRADING OF THE SITE IS PROPOSED.

**ISSUED FOR
PERMITTING**



SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH
ON ORIGINAL DRAWING

0 1"

IF IT'S NOT 1 INCH ON THIS
SHEET ADJUST YOUR
SCALES ACCORDINGLY

100 52 3 100

GRADING AND DRAINAGE PLAN

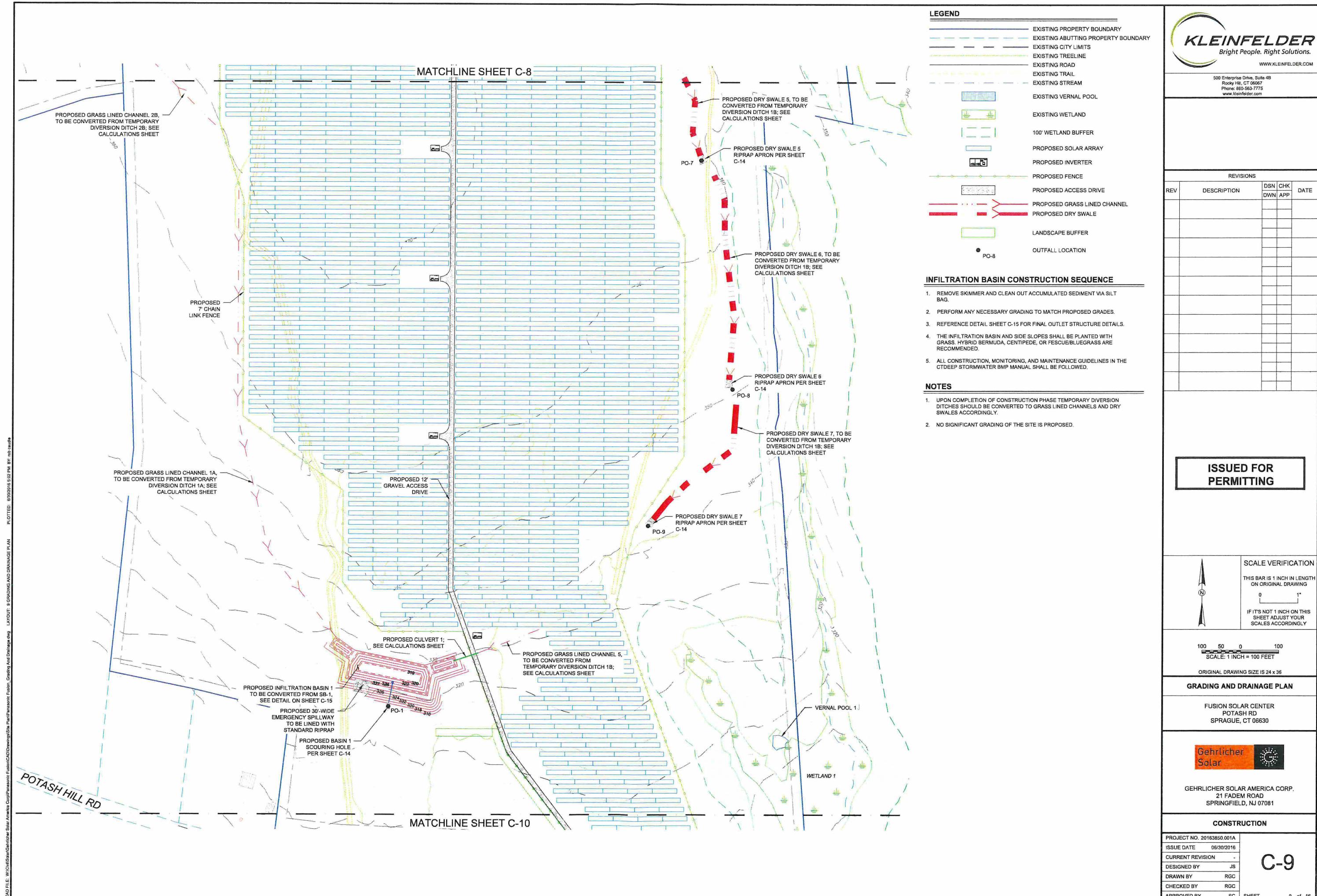
FUSION SOLAR CENTER
POTASH RD
SPRAGUE, CT 06630

GEHRLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
PENNSAUKEN, NEW JERSEY

CONSTRUCTION

PROJECT NO.	20163850.001A
ISSUE DATE	06/30/2016
CURRENT REVISION	-
DESIGNED BY	JS
DRAWN BY	RGC
CHECKED BY	RGC
APPROVED BY	SC
SHEET 8 of 16	

C-8



MATCHLINE SHEET C-9

This site plan illustrates the proposed layout for a facility adjacent to Potash Hill Rd. The plan shows the following key features and dimensions:

- POTASH HILL RD:** A road running vertically along the left side of the proposed facility.
- PROPOSED 7' CHAIN LINK FENCE:** A fence line extending from the top of the site towards the road, with a total length of 300' indicated.
- PROPOSED 12' GRAVEL ACCESS DRIVE:** A proposed access road extending from the road to the facility, with a total length of 290' indicated.
- PROPOSED ACCESS ROAD:** A road leading into the facility area, with a total length of 280' indicated.
- WETLAND 1:** A wetland area located to the east of the facility, indicated by green hatching.
- EVERSOURCE TO INSTALL UTILITY POLE(S) ALONG EAST SIDE OF PROPOSED ACCESS ROAD FOR INTERCONNECTION PURPOSES:** A note indicating utility pole placement.
- VERTICAL DIMENSIONS:** Vertical dimensions of 270', 280', 290', and 300' are marked along the proposed fence and access drive lines.

LEGEND

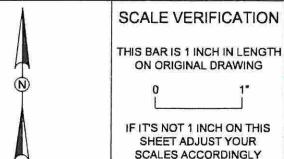
INFILTRATION BASIN CONSTRUCTION SEQUENCE

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NOTES

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2. NO SIGNIFICANT GRADING OF THE SITE IS PROPOSED.

**ISSUED FOR
PERMITTING**



A horizontal scale bar with markings at 0, 50, and 100. Below the scale bar, the text "SCALE: 1 INCH = 100 FEET" is written.

ING AND DRAINAGE PLAN

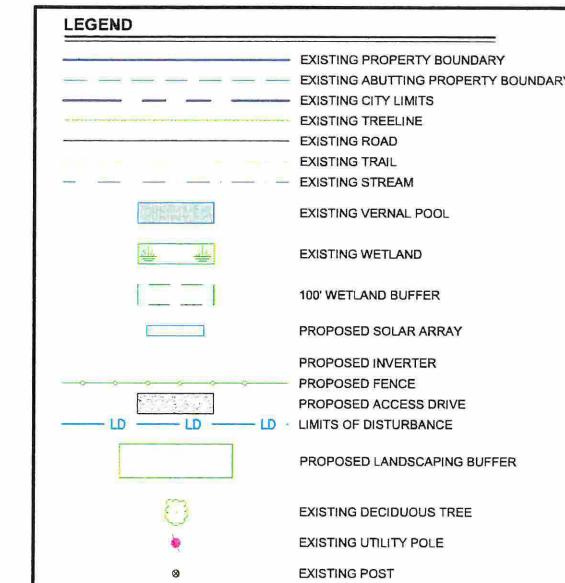
FUSION SOLAR CENTER
POTASH RD
SPRAGUE, CT 06630

CHRLLICHER SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

CONSTRUCTION

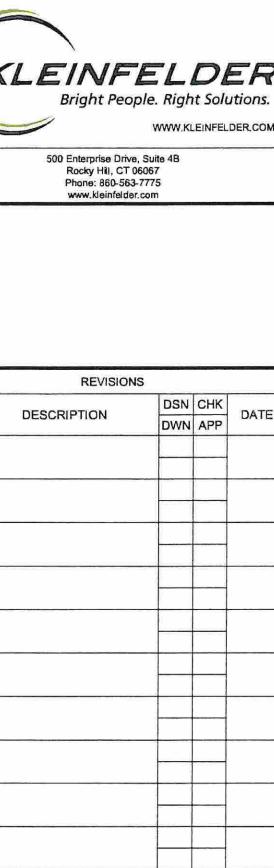
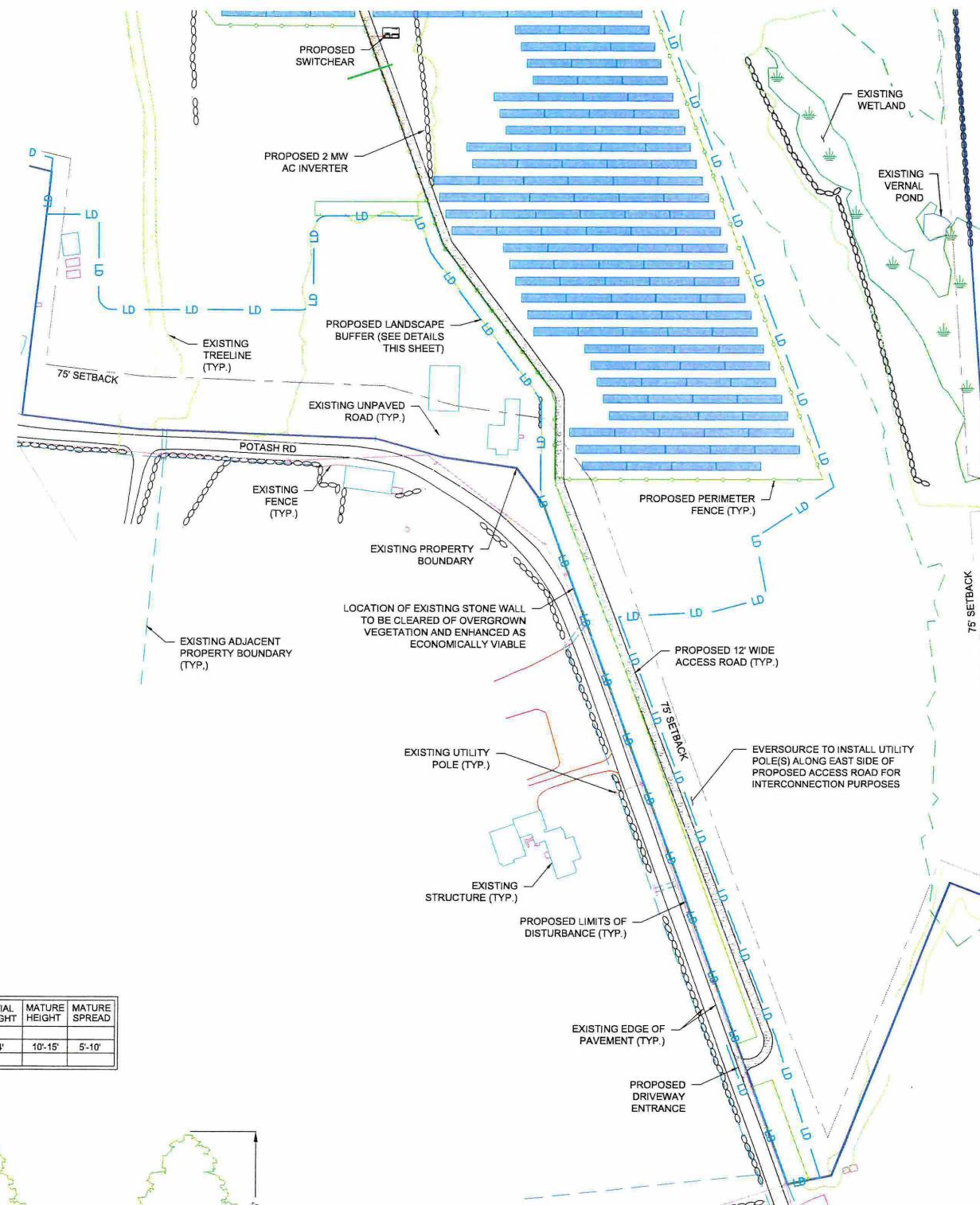
JECT NO.	20163850.001A
E DATE	06/30/2016
RENT REVISION	-
GNED BY	JS
WN BY	RGC
CKED BY	RGC
UISHED BY	RR
SUBJECT	

C-10



GENERAL NOTES

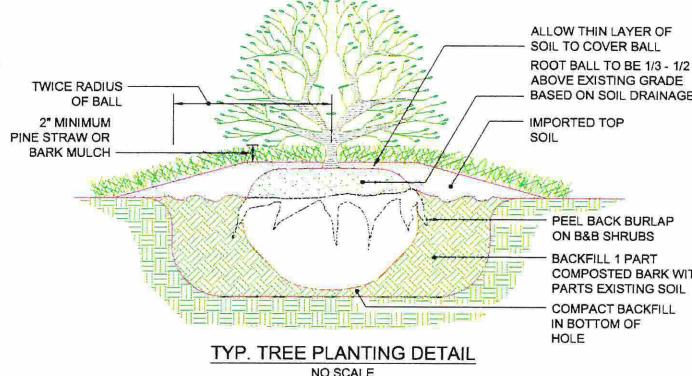
1. SURVEY PROVIDED BY FUSS AND O'NEIL, INC., DATED 05/29/2015.
2. PARCEL INFORMATION:
PROPERTY OWNER: RAINVILLE, ALLEN G & CHARLOTTE M
PROPERTY ID: 21-02-02
3. EXISTING STONE WALL ADJACENT TO POTASH RD SHALL BE ENHANCED AS ECONOMICALLY Viable.



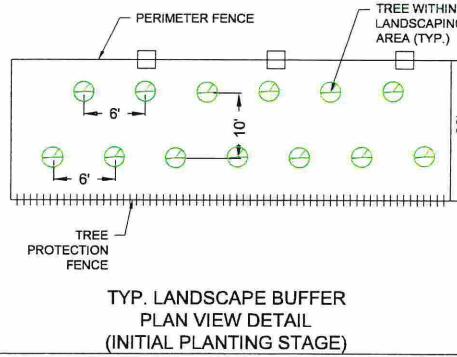
ISSUED FOR
PERMITTING

PLOTTED: 6/30/2016 5:03 PM BY: rob caudle

CAD FILE: W:\C:\Users\Gehrlicher Solar America\Copy\Panasonic Fusion\Drawings\Site Plan\Parasitic Fusion.CAD



TYP. TREE PLANTING DETAIL
NO SCALE



TYP. LANDSCAPE BUFFER
PLAN VIEW DETAIL
(INITIAL PLANTING STAGE)
NO SCALE

PLANTING SCHEDULE

QUA.	BOTANICAL NAME	COMMON NAME	INITIAL HEIGHT	MATURE HEIGHT	MATURE SPREAD
525	LLEX 'NELLIE R. STEVENS'	NELLIE STEVENS HOLLY	4'	10'-15'	5'-10'

*TREES USED TO CREATE LANDSCAPE BUFFER SHALL REACH A
MINIMUM HEIGHT OF 8 FEET WITHIN 2-3 YEARS OF PLANTING.



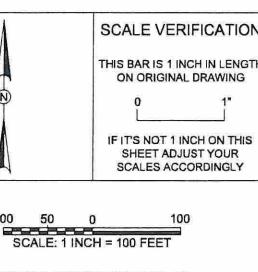
TYP. LANDSCAPE BUFFER
CROSS SECTION DETAIL
(MATURE GROWTH STAGE)
NO SCALE

TREE PROTECTION PLAN:

1. PERIMETER FENCE ADJACENT TO LANDSCAPE BUFFER SHALL BE INSTALLED PRIOR TO PLANTING ANY TREES.
2. LANDSCAPE BUFFER SHALL BE ENCLOSED WITH ORANGE TREE PROTECTION FENCING ONCE THE TREES HAVE BEEN PLANTED.

NOTES:

1. ALL TREE/EVERGREEN BEDS SHALL BE RAISED 6"-8" ABOVE ADJACENT GRADE, AND TILLED WITH SOIL CONDITIONER.
2. TOTAL LENGTH OF PROPOSED LANDSCAPE BUFFER: 1025'



100 50 0 100
SCALE: 1 INCH = 100 FEET

ORIGINAL DRAWING SIZE IS 24 x 36

LANDSCAPE BUFFER PLAN

FUSION SOLAR CENTER
POTASH RD
SPRAGUE, CT 06630

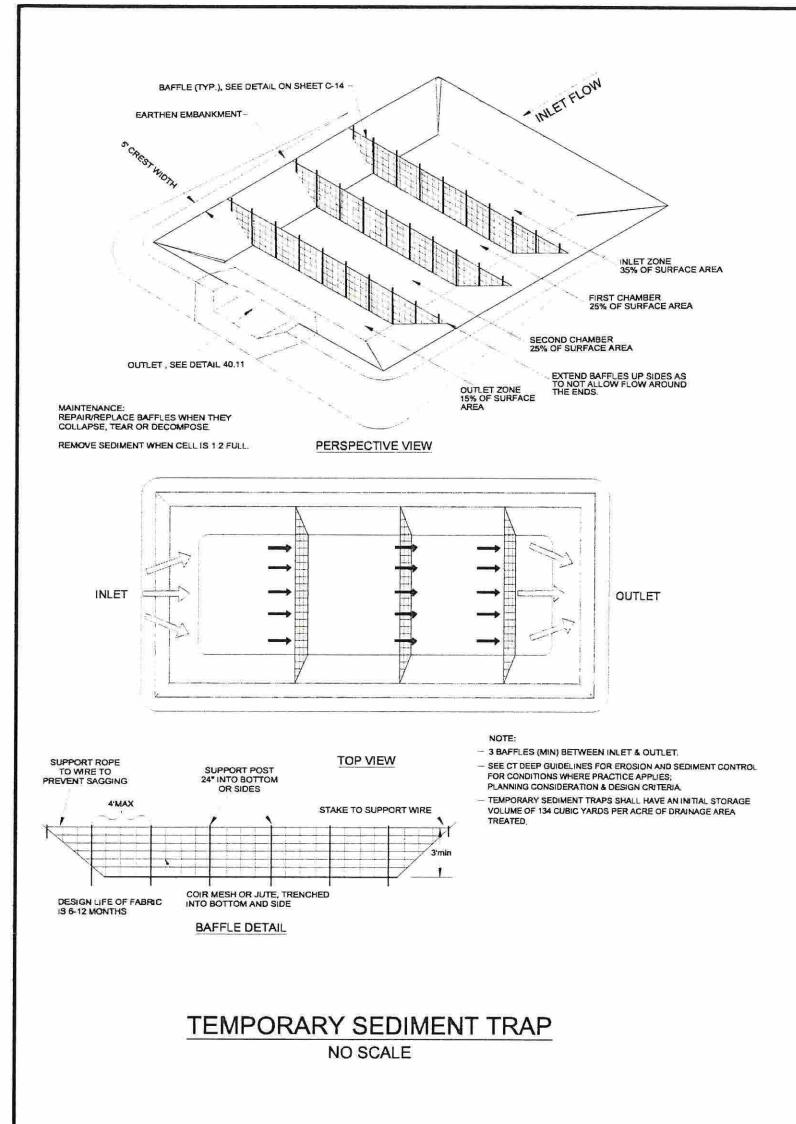


GEHRLICH SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

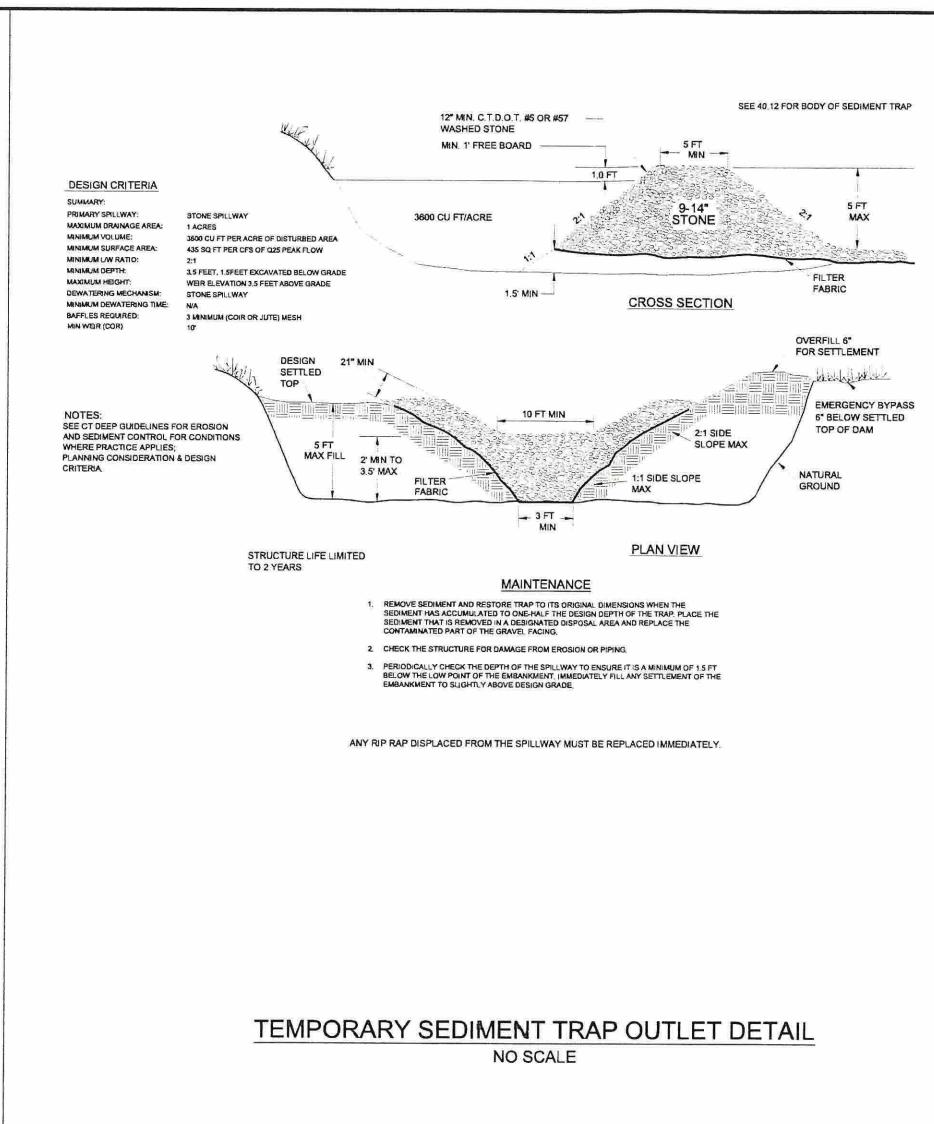
CONSTRUCTION

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APPROVED BY	SC

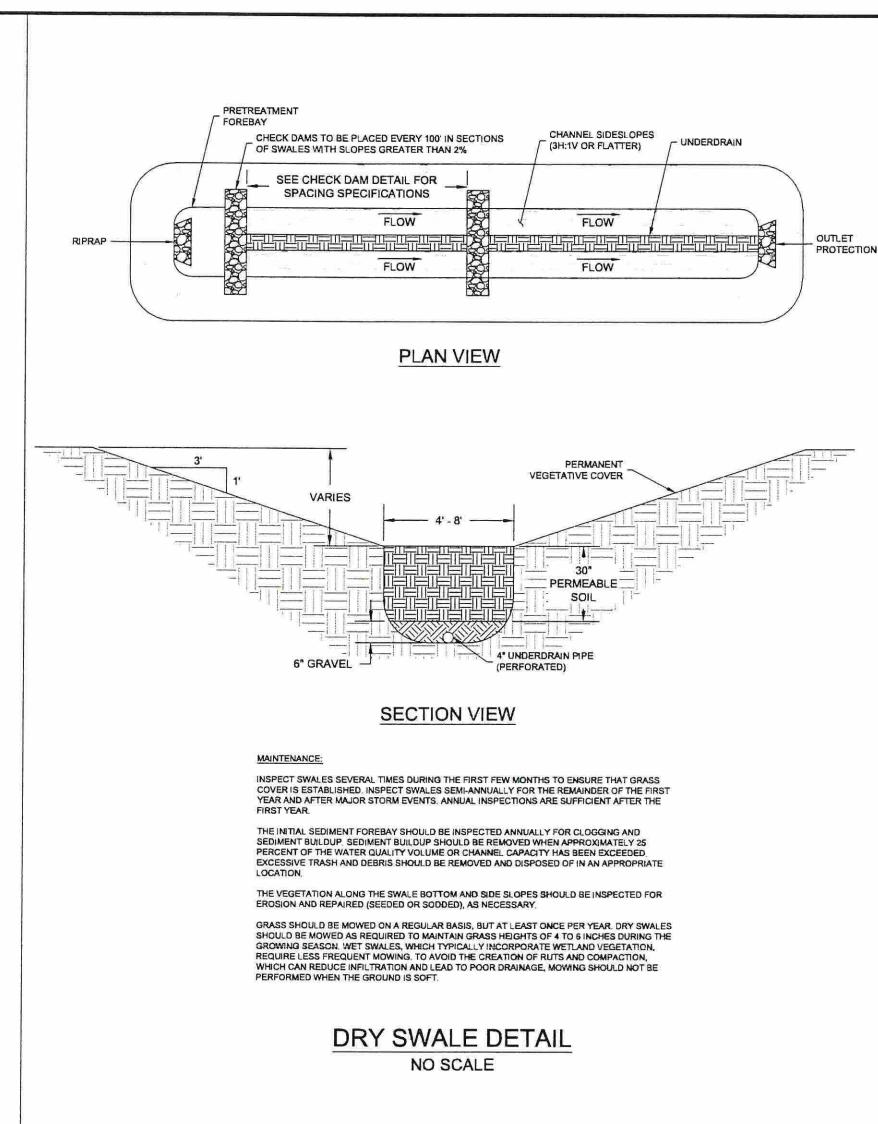
C-11



TEMPORARY SEDIMENT TRAP
NO SCALE

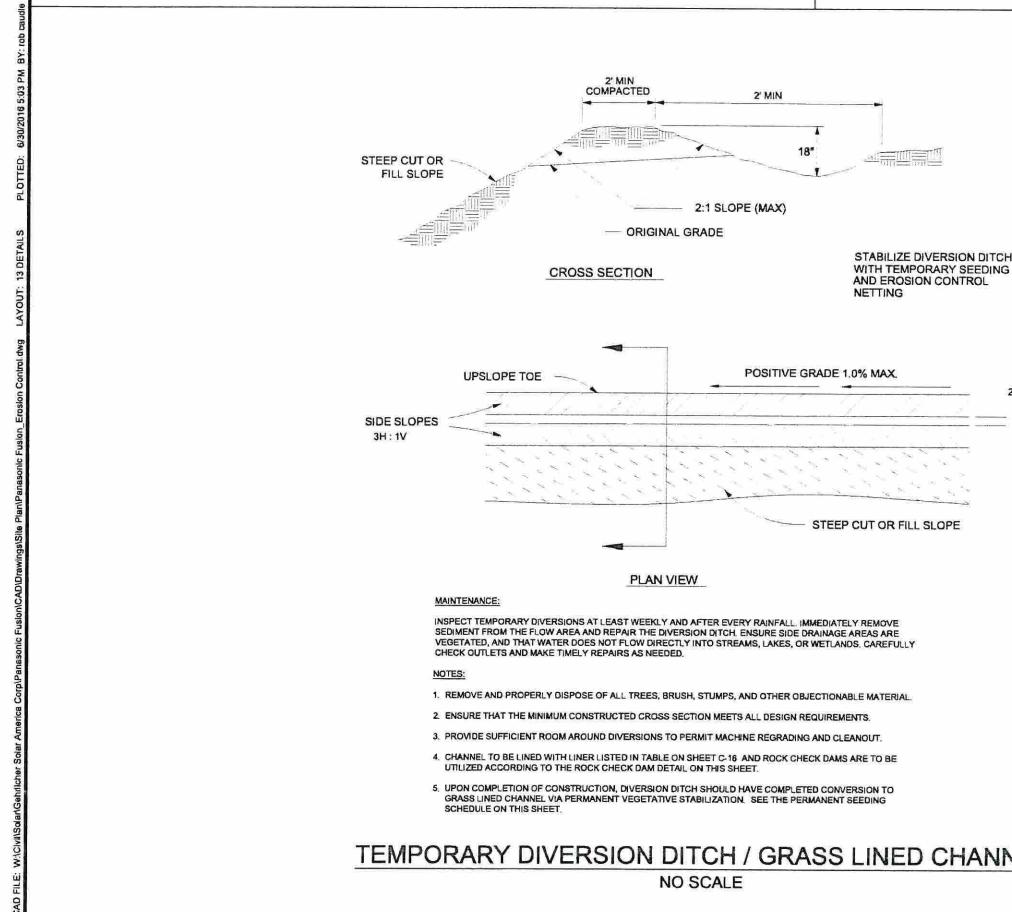


TEMPORARY SEDIMENT TRAP OUTLET DETAIL
NO SCALE

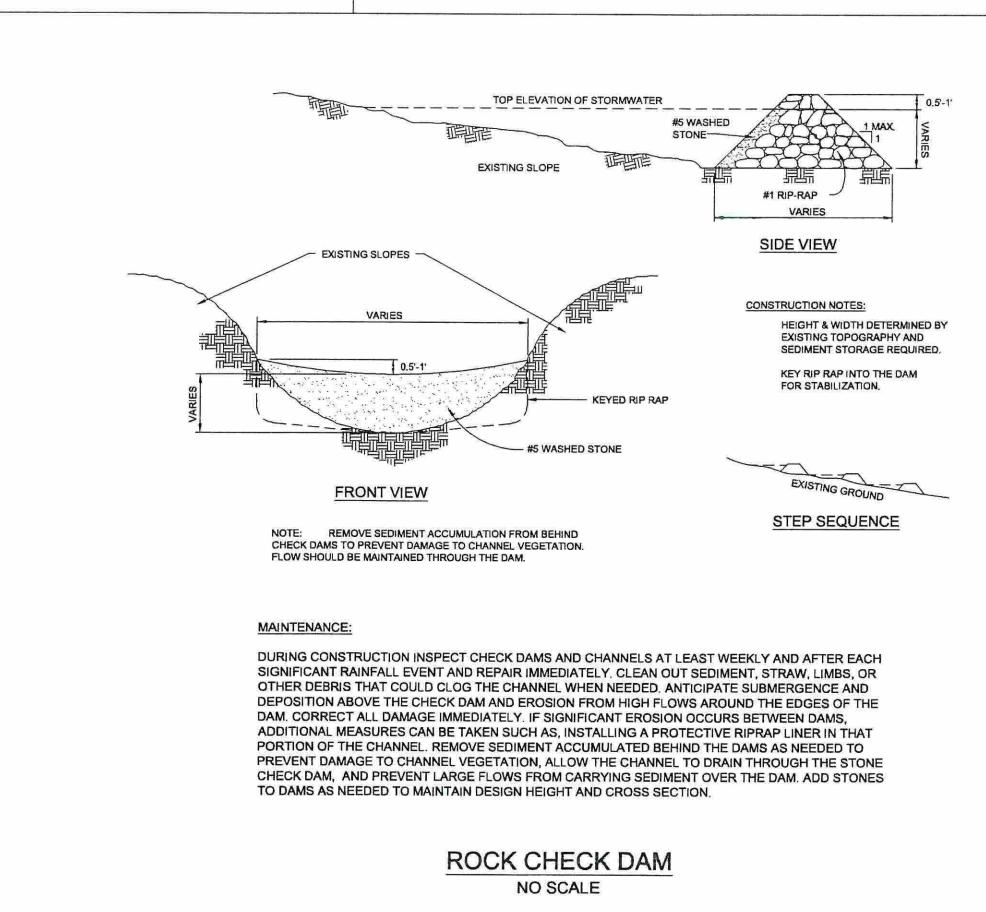


DRY SWALE DETAIL
NO SCALE

ISSUED FOR PERMITTING



TEMPORARY DIVERSION DITCH / GRASS LINED CHANNEL
NO SCALE



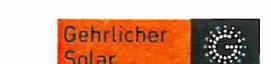
ROCK CHECK DAM
NO SCALE

SCALE VERIFICATION	
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY	0 1"

ORIGINAL DRAWING SIZE IS 24 x 36

DETAILS

FUSION SOLAR CENTER
POTASH RD
SPRAGUE, CT 06630



GEHRLICH SOLAR AMERICA CORP.
21 FADEM ROAD
SPRINGFIELD, NJ 07081

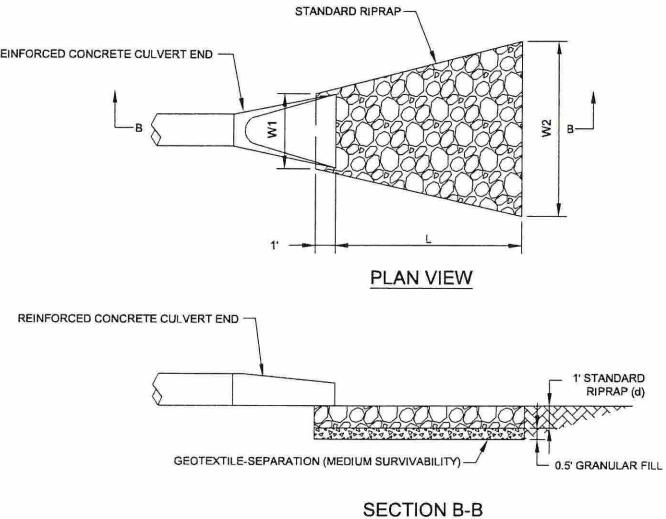
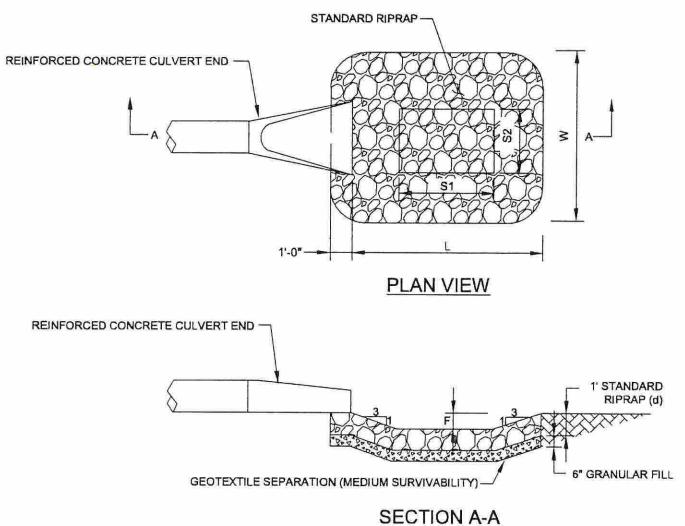
CONSTRUCTION

PROJECT NO. 20163850.001A	SC
ISSUE DATE	06/30/2016
CURRENT REVISION	-
DESIGNED BY	JS
DRAWN BY	RGC
CHECKED BY	RGC
APPROVED BY	SC
SHEET	13 of 16

C-13

BASIN	L (FT)	W (FT)	d (FT)	RIPRAP TYPE	S1 (FT)	S2 (FT)
1	27	24	1	STANDARD	9	6
2	24	20	1	STANDARD	12	8
3	27	24	1	STANDARD	9	6
4	27	24	1	STANDARD	9	6

DRY SWALE	L (FT)	W1 (FT)	W2 (FT)	d (FT)	RIPRAP TYPE
1	15	9	15	1	STANDARD
2	15	9	15	1	STANDARD
3	15	9	15	1	STANDARD
4	15	9	15	1	STANDARD
5	15	9	15	1	STANDARD
6	15	9	15	1	STANDARD
7	15	9	15	1	STANDARD



SCOURING HOLE
NO SCALE

RIP RAP APRON
NO SCALE

Figure PS-2 Selecting Seed Mix to Match Need

Area To Be Seeded	Mixture Number ¹	
	Mowing Desired	Mowing Not Required
ROBBOW AREAS: ROADSIDES, DIKES, LEVEES, POND BANKS AND OTHER SLOPES AND BANKS		
A: Well or excessively drained soils ²	1, 2, 3, 4, 5, or 31	5, 6, 7, 8, 9, 10, 11, 12, 16, 22
B: Somewhat poorly drained soils ³	2	5, 10
C: Variable drainage soils ⁴	2	5, 10, 11
DRY OR DRY AND CHANNEL BANKS		
A: Well or excessively drained soils ²	1, 2, 3, or 3	9, 10, 11, 12
B: Somewhat poorly drained soils ³	2	
C: Variable drainage soils ⁴	2	
DIVERNS		
A: Well or excessively drained soils ²	2, 3, or 3	9, 10, 11
B: Somewhat poorly drained soils ³	2	
C: Variable drainage soils ⁴	2	
EFILLET DISPOSAL		5 or 6
GRAVEL/PITS ⁵		26, 27, 28
GUARDED AND FROZEN AREAS		3, 4, 5, 8, 10, 11, 12
MINESPOIL & WASTE, AND OTHER SOIL BANKS (if toxic substances & physical properties not limiting) ⁶		15, 16, 17, 18, 26, 27, 28
SHOWPLACES (Guarding with levels)		5 or 6
SKI SLOPES		4, 10
SOD WATERWAYS AND SPILLWAYS	1, 2, 3, 4, 6, 7, or 8	1, 2, 3, 4, 6, 7, or 8
SUNNY RECREATION AREAS (Picnic areas and playgrounds or driving and archery ranges, nature trails)	1, 2, or 23	
CAMPING AND PARKING, NATURE TRAILS (Shaded)	19, 27 or 23	
SAND Dunes (Blowing sand)	25	
WOODLAND ACROSS ROADS, SKID TRAILS AND LOG YARDING AREAS		9, 10, 16, 22, 26
LAWNS AND HIGH MAINTENANCE AREAS	1, 19, 21 or 29	

¹ The numbers following in this column refer to seed mixtures in Figure PS-3, mixes for shaded areas are in **bold-faces** and include mixes 20 through 24.

² See county soil survey for drainage class. Soil surveys are available from the County Soil and Water Conservation District Office.

³ See mix 26 when soil passing 25% mesh is less than 15% of total weight. For mix 28 & 27 when soil passing 25% mesh is between 15% and 20% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is above 20% of total weight.

⁴ See mix 26 when soil passing 25% mesh is less than 15% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is between 15% and 20% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is above 20% of total weight.

⁵ See mix 26 when soil passing 25% mesh is less than 15% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is between 15% and 20% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is above 20% of total weight.

⁶ See mix 26 when soil passing 25% mesh is less than 15% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is between 15% and 20% of total weight. Use mix 26, 27 & 28 when soil passing 25% mesh size is above 20% of total weight.

TEMPORARY SEEDING (CT DEEP)
NO SCALE

Figure PS-3 Seed Mixtures for Permanent Seeding

No.	Seed Mixture (Variety) ¹	Lbs/Acre	Lbs/1,000 Sq. Ft.
1 ²	Smooth Bluegrass	20	.45
	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Perennial Ryegrass (Norlea, Manhattan)	.5	.10
	Total 45	1.00	
2 ³	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Redtop (Strecker, Common)	2	.05
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Sartoga, Lincoln)	.5	.10
	Total 24	.55	
3 ⁴	Creeping Red Fescue (Pennlawn, Wintergreen) or Tall Fescue (Kentucky 31)	20	.45
	Redtop (Strecker, Common)	2	.05
	Birds-foot Trefoil (Empire, Viking) with inoculant ⁵	.5	.10
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Sartoga, Lincoln)	.5	.10
	Total 48	1.10	
4 ⁵	Creeping Red Fescue (Pennlawn, Wintergreen) or Tall Fescue (Kentucky 31)	20	.45
	Redtop (Strecker, Common)	2	.05
	Birds-foot Trefoil (Empire, Viking) with inoculant ⁵	.5	.10
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Sartoga, Lincoln)	.5	.10
	Total 48	1.10	
5 ⁶	White Clover	10	.25
	Perennial Rye Grass	2	.05
	Total 12	.30	
6 ⁷	White Clover	10	.25
	Perennial Rye Grass	2	.05
	Total 12	.30	
7 ⁸	Creeping Red Fescue	20	.45
	Redtop (Strecker, Common)	2	.05
	Birds-foot Trefoil (Empire, Viking) with inoculant ⁵	.5	.10
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Sartoga, Lincoln)	.5	.10
	Total 40	1.00	
8 ⁹	White Clover	10	.25
	Perennial Rye Grass	2	.05
	Total 12	.30	
9 ¹⁰	Creeping Red Fescue	20	.45
	Redtop (Strecker, Common)	2	.05
	Birds-foot Trefoil (Empire, Viking) with inoculant ⁵	.5	.10
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Sartoga, Lincoln)	.5	.10
	Total 40	1.00	
10 ¹¹	White Clover	10	.25
	Perennial Rye Grass	2	.05
	Total 12	.30	
11 ¹²	Creeping Red Fescue	20	.45
	Redtop (Strecker, Common)	2	.05
	Birds-foot Trefoil (Empire, Viking) with inoculant ⁵	.5	.10
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Sartoga, Lincoln)	.5	.10
	Total 40	1.00	
12 ¹³	Smooth Bluegrass	18	.55
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total 23	.70	
13 ¹⁴	Smooth Bluegrass (Sartoga, Lincoln)	18	.55
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total 23	.70	
14 ¹⁵	Smooth Bluegrass (Sartoga, Lincoln)	18	.55
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total 23	.70	
15 ¹⁶	Smooth Bluegrass (Sartoga, Lincoln)	18	.55
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total 23	.70	
16 ¹⁷	Smooth Bluegrass (Sartoga, Lincoln)	18	.55
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total 23	.70	
17 ¹⁸	Smooth Bluegrass (Sartoga, Lincoln)	18	.55
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total 23	.70	
18 ¹⁹	Deer Tongue (Tiggo) with inoculant ⁵	10	.25
	Crown Vetch (Chenop, Penngift) with inoculant ⁵	15	.35
	Perennial Ryegrass (Norlea, Manhattan)	.5	.05
	Total 28	.65	
19 ²⁰	Chewings Fescue	35	.80
	Hard Fescue	50	.70
	Colonial Bentgrass	5	.10
	Birds-foot Trefoil (Empire, Viking) with inoculant ⁵	10	.25
	Perennial Ryegrass	20	.50
	Total 100	2.50	
20 ²¹	Deer Tongue (Tiggo) with inoculant ⁵	10	.25
	Crown Vetch (Chenop, Penngift) with inoculant ⁵	15	.35
	Perennial Ryegrass (Norlea, Manhattan)	.5	.05
	Total 28	.65	
21 ²²	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Tall Fescue (Kentucky 31)	20	.45
	Total 40	.90	
22 ²³	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Tall Fescue (Kentucky 31)	20	.45
	Total 40	.90	
23 ²⁴	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Flapleaf (Latiflo) with inoculant ⁵	20	.45
	Total 40	.90	
24 ²⁵	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Flapleaf (Latiflo) with inoculant ⁵	20	.45
	Total 40	.90	
25 ²⁶	Tall Fescue (Kentucky 31)	20	.45
	Total 40	.90	

PERMANENT SEED

TEMPORARY RISER SEDIMENT BASIN DESIGN																									
BASIN NUMBER	DRAINAGE AREA	AVERAGE ANNUAL EROSION	DELIVERY RATIO	EFFICIENCY	ESTIMATED SEDIMENT DENSITY	REQUIRED SEDIMENT STORAGE VOLUME	REQUIRED WET STORAGE VOLUME (CF)	DEPTH** (2 FT MIN.)	SIDESLOPE GRADE (H:V)	WIDTH*	LENGTH*	VOLUME PROVIDED	(AC)	(TON/AC)	%	(LBS/CU FT)	(AC*FT)	(AC*FT)	(CF)	(FT)	(FT/FT)	(FT)	(FT)	(CF)	
SB-1	21.06	1	28	0.8	105	0.21	0.41	26,957	8	3	70	210	59,892												
SB-2	36.58	1	28	0.8	105	0.36	0.72	46,822	8	3	65	195	49,077												
SB-3	11.80	1	28	0.8	105	0.12	0.23	15,104	4	3	60	180	24,192												
SB-4	19.28	1	28	0.8	105	0.19	0.38	24,678	8	3	55	180	33,852												

*SEDIMENT TRAP/BASIN DIMENSIONS REPRESENT DIMENSIONS AT SPILLWAY ELEVATION. THESE ARE MINIMUMS, AND CAN BE EXCEEDED.

**DEPTH BELOW SPILLWAY.

TEMPORARY DIVERSION DESIGN																					
DITCH NAME	DRAINAGE AREA (acres)	tc TIME OF CONC. (min)	INTENSITY (in/hr)	RUNOFF COEFFICIENT, C	Q (cfs)	TOTAL RUNOFF, Q (cfs)	CHANNEL SLOPE (ft/ft)	CHANNEL SECTION	BOTTOM WIDTH (ft)	LEFT SIDE SLOPE, Z:1 (ft)	RIGHT SIDE SLOPE, Z:1 (ft)	CHANNEL DEPTH (ft)	LENGTH (ft)	UPPER INVERT (ft)	LOWER INVERT (ft)	NORMAL DEPTH (ft)	FREEBOARD (ft)	shear stress (lb/ft ²)	Velocity (fps)	n VALUE	TEMPORARY LINER
DITCH 1A	7.70	5.0	6.00	0.36	16.45	16.45	0.030	TRAPEZOIDAL	3.00	3.00	3.00	2.00	1,301.00	370.00	328.00	0.75	1.25	1.40	4.91	0.033	STRAW W/ NET
DITCH 1B	8.12	5.0	6.00	0.36	17.64	17.64	0.020	TRAPEZOIDAL	3.00	3.00	3.00	2.50	638.00	341.00	328.00	1.43	1.07	1.82	5.24	0.033	STRAW W/ NET
DITCH 2A	11.12	5.0	6.00	0.36	23.75	23.75	0.024	TRAPEZOIDAL	3.00	3.00	3.00	2.00	1,188.00	370.00	342.00	0.95	1.05	1.40	5.89	0.033	STRAW W/ NET
DITCH 2B	12.89	5.0	6.00	0.36	27.52	27.52	0.035	TRAPEZOIDAL	5.00	3.00	3.00	2.00	1,188.00	384.00	342.00	0.77	1.23	1.70	5.75	0.033	STRAW W/ NET
DITCH 3A	10.64	5.0	6.00	0.36	22.73	22.73	0.014	TRAPEZOIDAL	4.00	3.00	3.00	2.00	877.00	380.00	368.00	0.89	1.11	0.76	3.83	0.033	STRAW W/ NET
DITCH 4A	1.85	5.0	6.00	0.36	3.95	3.95	0.005	TRIANGULAR	-	2.00	2.00	1.50	184.00	295.00	294.00	0.99	0.51	0.34	2.02	0.033	STRAW W/ NET
DITCH 4B	2.11	5.0	6.00	0.36	4.51	4.51	0.012	TRIANGULAR	-	2.00	2.00	1.50	166.00	296.00	294.00	0.88	0.62	0.66	2.91	0.033	STRAW W/ NET
DITCH 5A	10.60	5.0	6.00	0.37	23.40	23.40	0.013	TRAPEZOIDAL	4.00	2.00	2.00	2.00	1,299.00	365.00	348.00	0.65	1.35	0.53	3.90	0.033	STRAW W/ NET

FUSION SOLAR PERMANENT CULVERT DESIGN																
PERMANENT CULVERT	DRAINAGE AREA (ac)	tc TIME OF CONC. (min)	I INTENSITY (in/hr)	RUNOFF COEFFICIENT, C	Q FLOW (cfs)	Q TOTAL FLOW (cfs)	SLOPE (ft/ft)	Dtheo (in)	SIZE (in)	Vfull (ft/sec)	LENGTH (ft)	UPPER INVERT (ft)	LOWER INVERT (ft)	TOP EL (ft)	PIPE MATERIAL	
1	8.12	5.0	6.00	0.36	17.3	17.3	0.0426	16.5	24	14.8	47.00	330.00	328.00	-	RCP	

DRY SWALE DESIGN																									
DRY SWALE NAME	DRAINAGE AREA (acres)	PERCENT IMPERVIOUS (%)	tc TIME OF CONC. (min)	2-YR INTENSITY (in/hr)	10-YR INTENSITY (in/hr)	RUNOFF COEFFICIENT, C	DRAINAGE AREA WQV (cf)	SWALE VOLUME (cf)	WQV CREDIT (25%)	2-YR FLOW, Q (cfs)	10-YR FLOW, Q (cfs)	CHANNEL SLOPE (ft/ft)	BOTTOM WIDTH (ft)	LEFT SIDE SLOPE, Z:1 (ft)	RIGHT SIDE SLOPE, Z:1 (ft)	CHANNEL DEPTH (ft)	LENGTH (ft)	UPPER INVERT (ft)	LOWER INVERT (ft)	2-YR FLOW DEPTH (ft)	2-YR VELOCITY (fps)	2-YR SHEAR STRESS (lb/ft ²)	10-YR FLOW DEPTH (ft)	10-YR FREEBOARD (ft)	PERMANENT LINER
DRY SWALE 1	3.71	0.06	5.0	5.50	6.70	0.36	1,349	6,930	1,733	7.26	8.85	0.022	4.00	3.00	3.00	2.00	495.00	381.00	370.00	0.69	1.73	0.96	0.62	1.38	GRASS W/ ROCK CHECK DAMS
DRY SWALE 2	4.98	0.02	5.0	5.50	6.70	0.36	1,224	2,604	651	9.92	12.08	0.005	4.00	3.00	3.00	2.00	186.00	369.50	368.50	1.10	1.22	0.37	1.16	0.84	GRASS W/ ROCK CHECK DAMS
DRY SWALE 3	1.45	0.00	5.0	5.50	6.00	0.36	263	5,250	1,313	2.84	3.10	0.013	4.00	3.00	3.00	2.00	375.00	368.50	363.50	0.48	1.09	0.40	0.51	1.49	GRASS W/ ROCK CHECK DAMS
DRY SWALE 4	0.63	0.00	5.0	5.50	6.00	0.36	114	2,940	735	1.23	1.35	0.006	4.00	3.00	3.00	2.00	210.00	364.75	363.50	0.40	0.59	0.15	0.42	1.58	GRASS W/ ROCK CHECK DAMS
DRY SWALE 5	4.39	0.01	5.0	5.50	6.00	0.37	940	7,812	1,953	8.89	9.69	0.007	4.00	3.00	3.00	2.00	558.00	364.75	360.75	0.97	1.33	0.43	1.01	0.99	GRASS W/ ROCK CHECK DAMS
DRY SWALE 6	4.82	0.02	5.0	5.50	6.00	0.36	1,247	7,630	1,908	9.44	10.30	0.018	4.00	3.00	3.00	2.00	545.00	360.50	350.75	0.78	1.91	0.8			



CORONAL

A Panasonic Eco Solutions Partner

Equipment Elevations & Foundation and Trenching Plans

Excerpted from Building Permit Drawings



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Professional Engineer:

PE Seal:

DRAWING ISSUE

<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction
<input type="checkbox"/> Customer Approval	<input type="checkbox"/> As-built
<input checked="" type="checkbox"/> Permitting	<input type="checkbox"/> Other

REVISIONS

Rev	By	App	Description	Date
0	GH	MK	Permit Set	05/31/2016
1	GH	MK	Permit Set Rev 1	06/22/2016

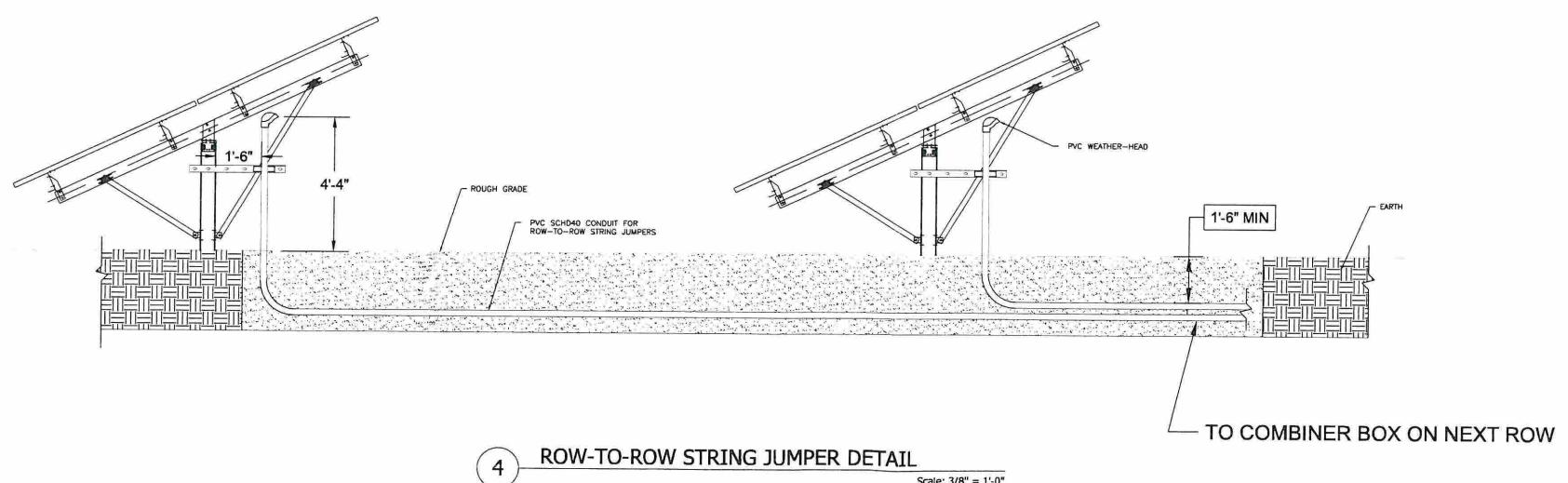
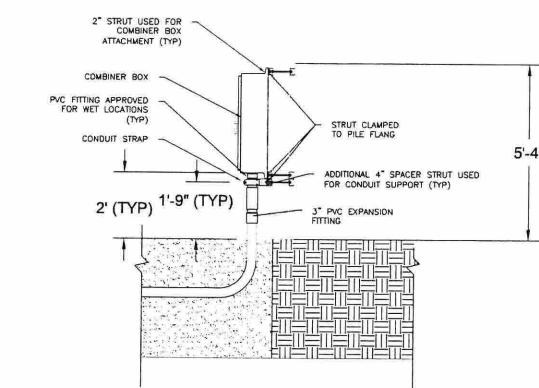
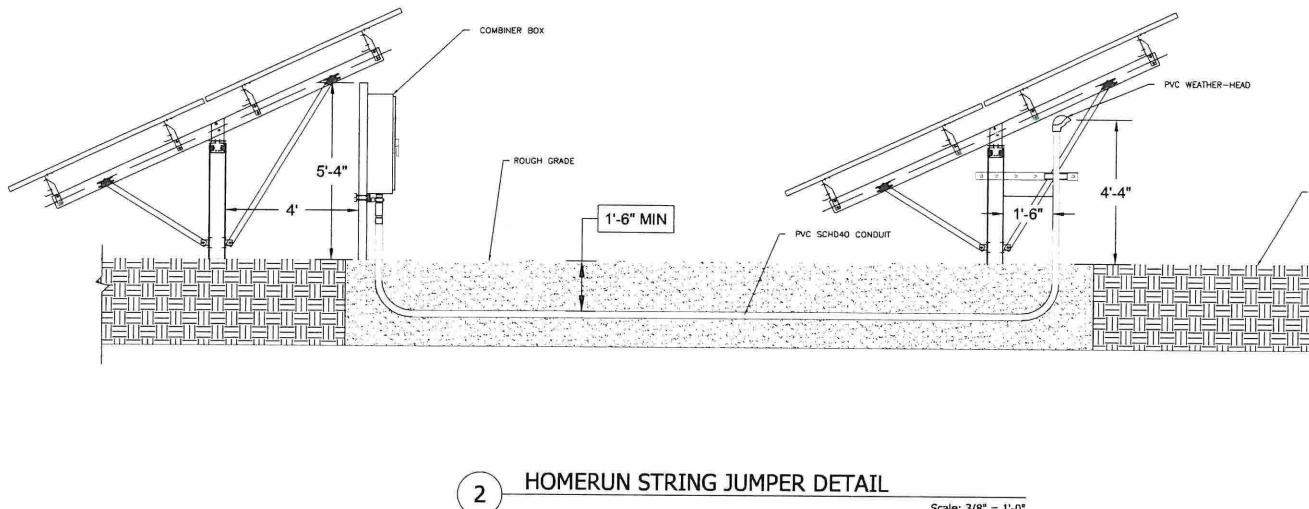
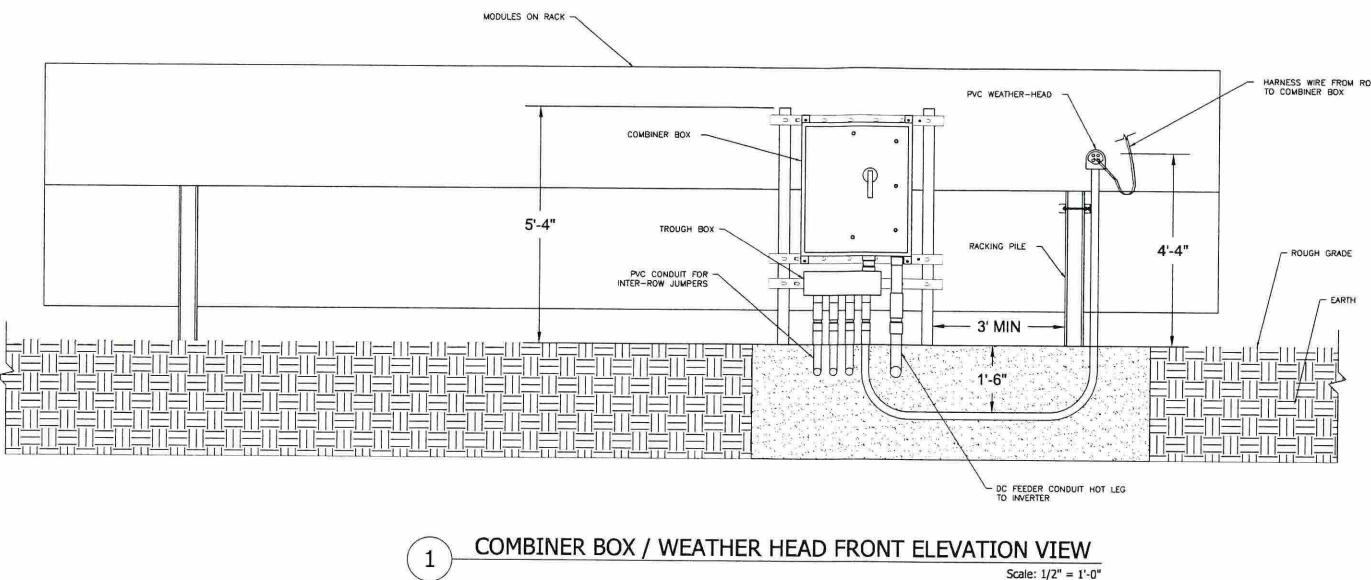
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Site Address: **POTASH HILL RD
SPRAGUE, CT 06330**
41°38'57.68"N, 72°04'42.45"W

Sheet Name: **EQUIPMENT MOUNTING DETAIL**

Scale: **TBD** Project ID: **TBD**
Sheet No:

L2.1





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Professional Engineer:

PE Seal:

DRAWING ISSUE

<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction
<input type="checkbox"/> Customer Approval	<input type="checkbox"/> As-built
<input checked="" type="checkbox"/> Permitting	<input type="checkbox"/> Other

REVISIONS

Rev	By	App	Description	Date
0	GH	MK	Permit Set	05/31/2016
1	GH	MK	Permit Set Rev 1	06/22/2016

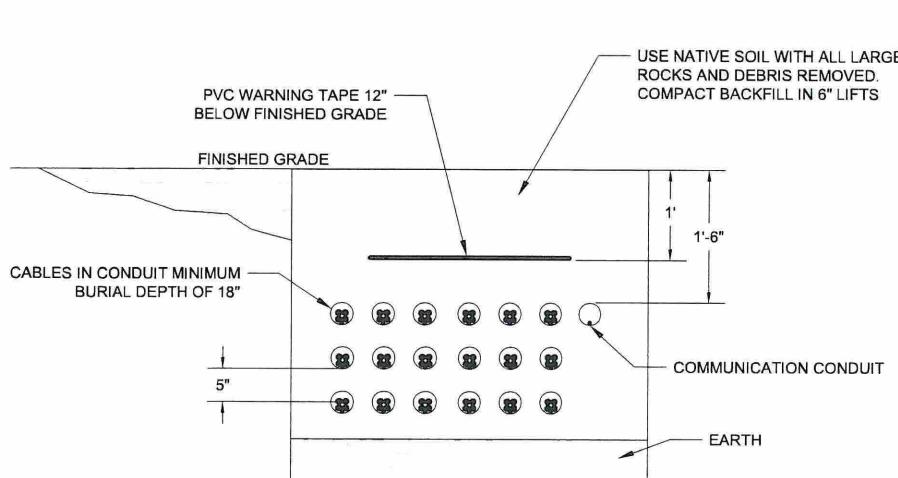
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Site Address: POTASH HILL RD
SPRAGUE, CT 06330
41°38'57.68"N, 72°04'42.45"W

Sheet Name: TRENCHING DETAILS

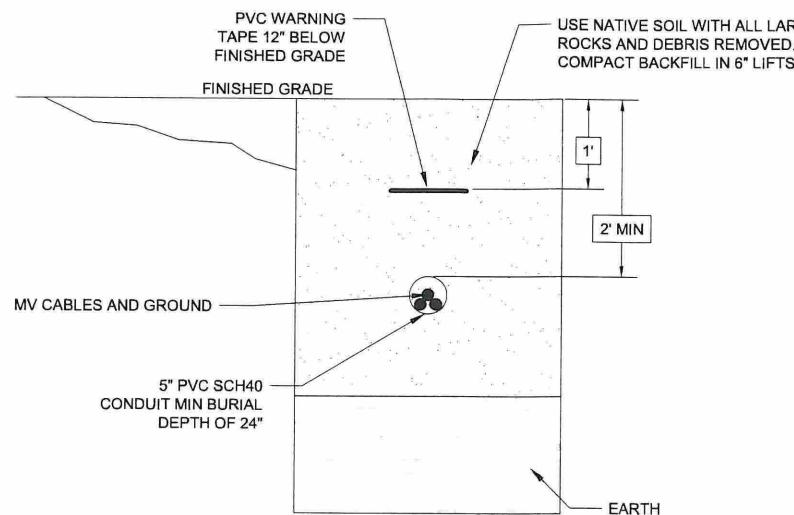
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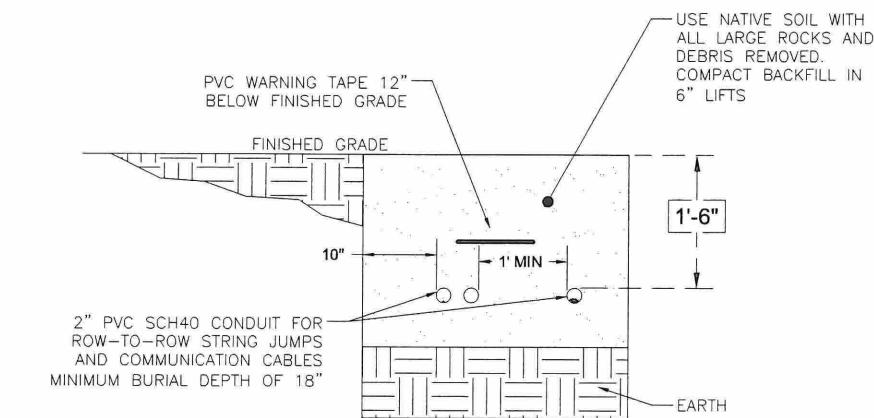
1 DC TRENCH DETAIL

Scale: 1" = 1'-0"



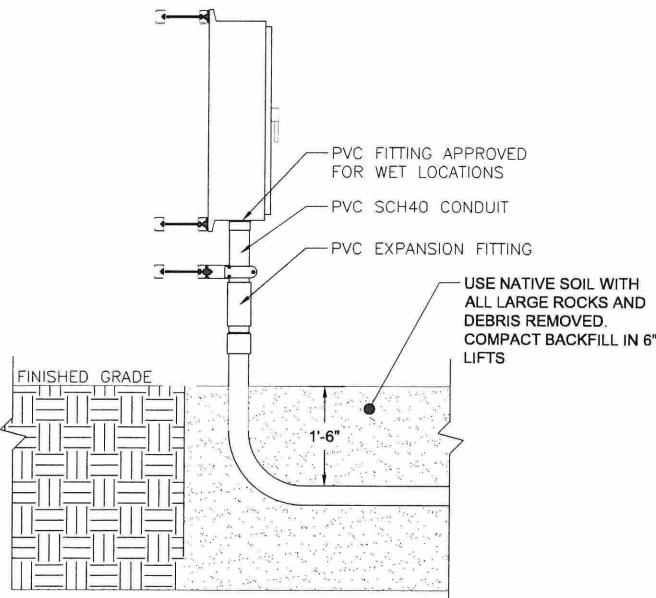
2 MEDIUM VOLTAGE TRENCH DETAIL

Scale: 1" = 1'-0"



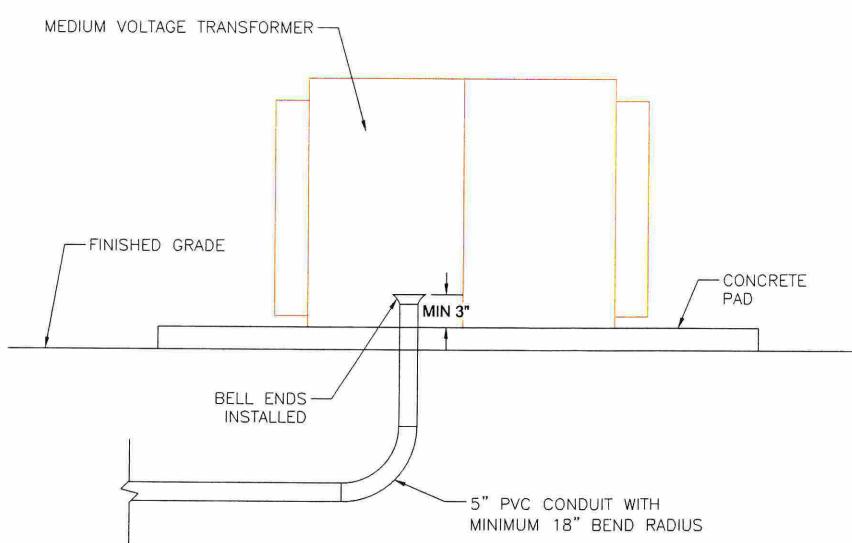
3 COMMUNICATION / STRING JUMPER DETAIL

Scale: 1" = 1'-0"



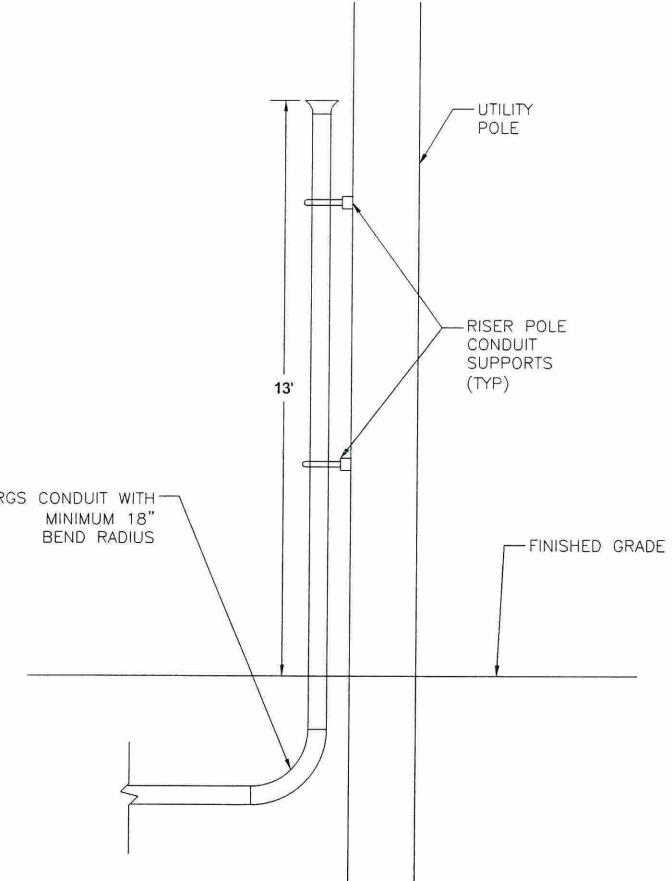
4 CONDUIT STUB-UP AT COMBINER BOX

Scale: 3/4" = 1'-0"



5 CONDUIT STUB-UP AT TRANSFORMER PRIMARY

Scale: 1/2" = 1'-0"



6 CONDUIT STUB-UP AT RISER POLE

Scale: 1/2" = 1'-0"



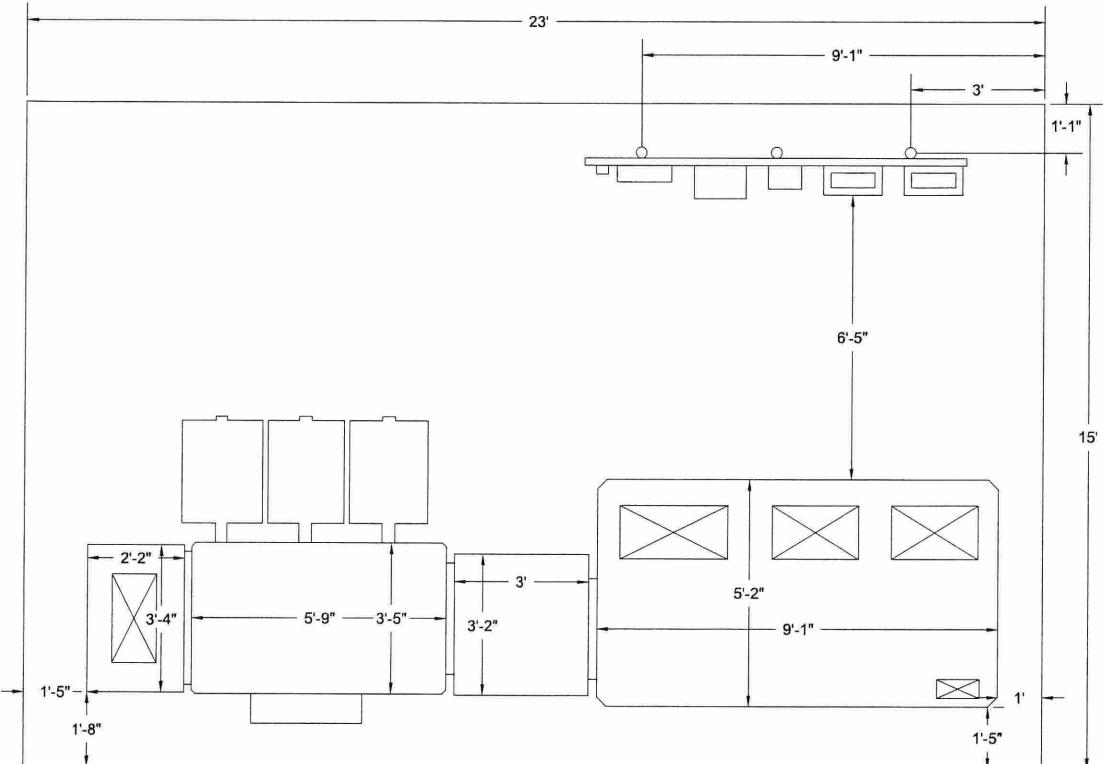
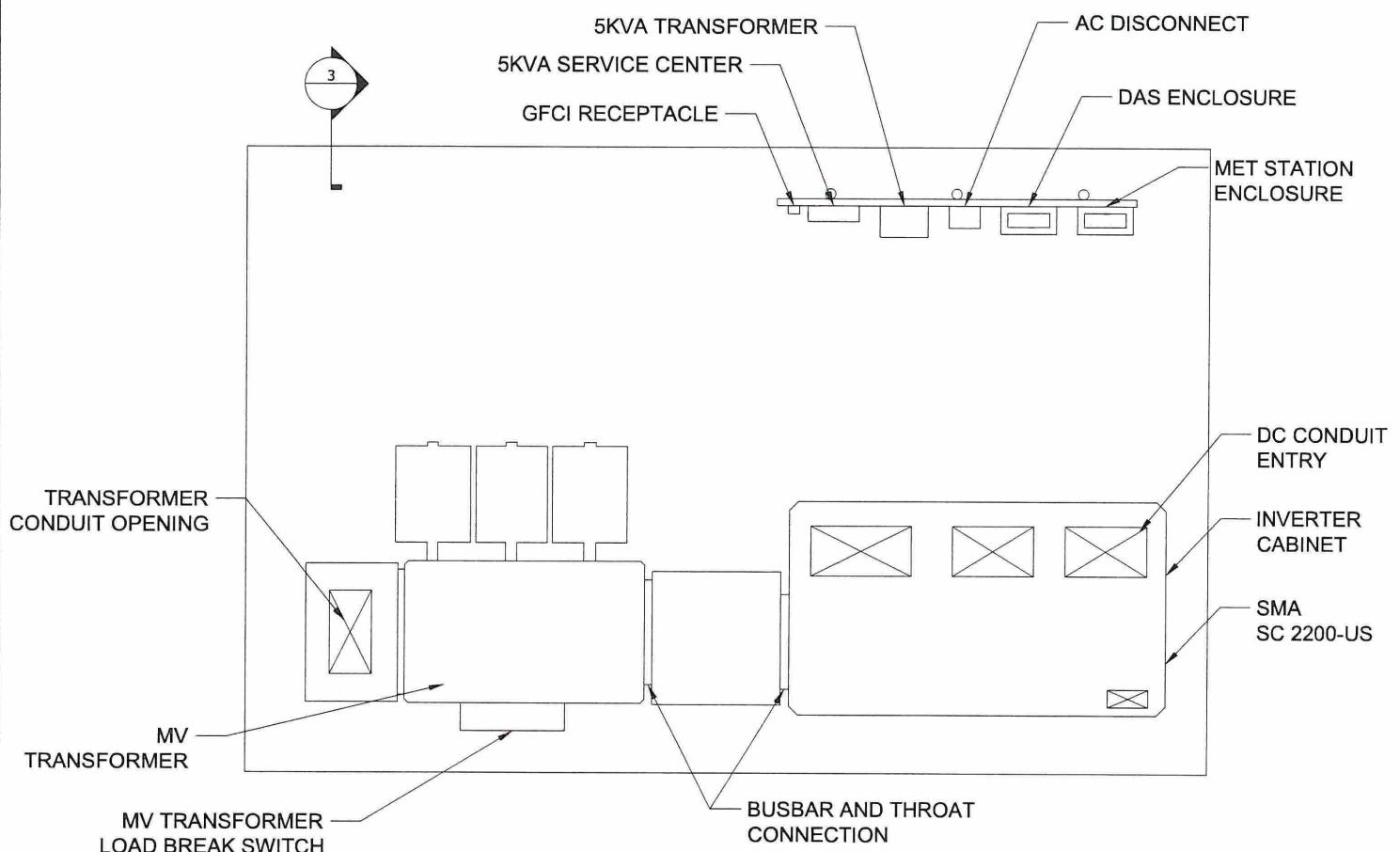
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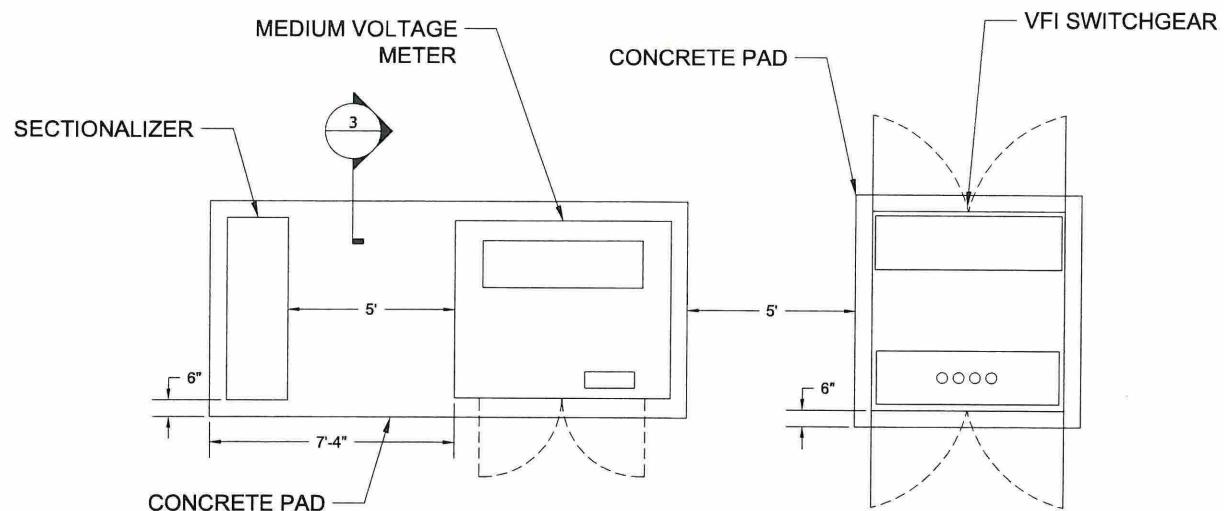
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Professional Engineer:

PE Seal:

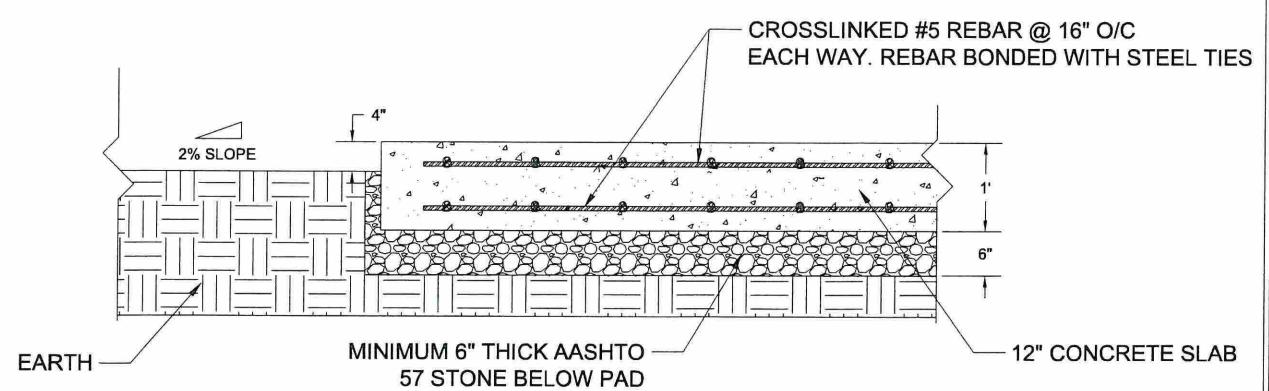


1 EQUIPMENT PAD LAYOUT (TYP)
Scale: 1/2" = 1'-0"



3 MEDIUM VOLTAGE EQUIPMENT PAD DETAIL
Scale: 3/8" = 1'-0"

2 EQUIPMENT PAD DIMENSIONS
Scale: 1/2" = 1'-0"



4 CONCRETE PAD DETAIL
Scale: 1" = 1'-0"

Project Name: CORONAL PANASONIC – FUSION
Site Address: POTASH HILL RD SPRAGUE, CT 06330
41°38'57.68"N, 72°04'42.45"W

Sheet Name: EQUIPMENT PAD LAYOUT & DETAIL

Scale: Project ID: TBD
Sheet No:

L2.3



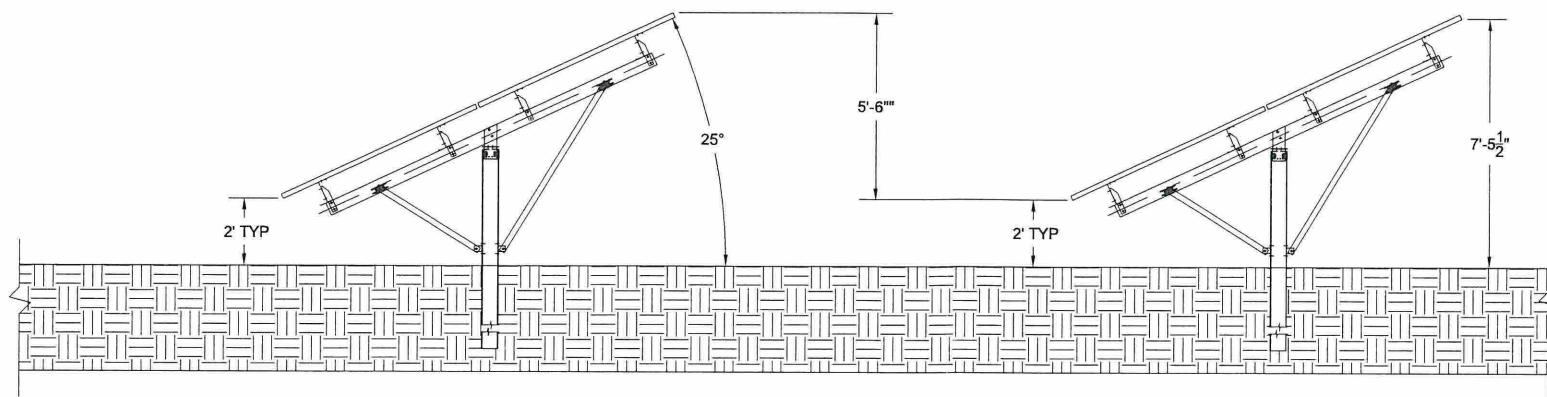
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Professional Engineer:

PE Seal:



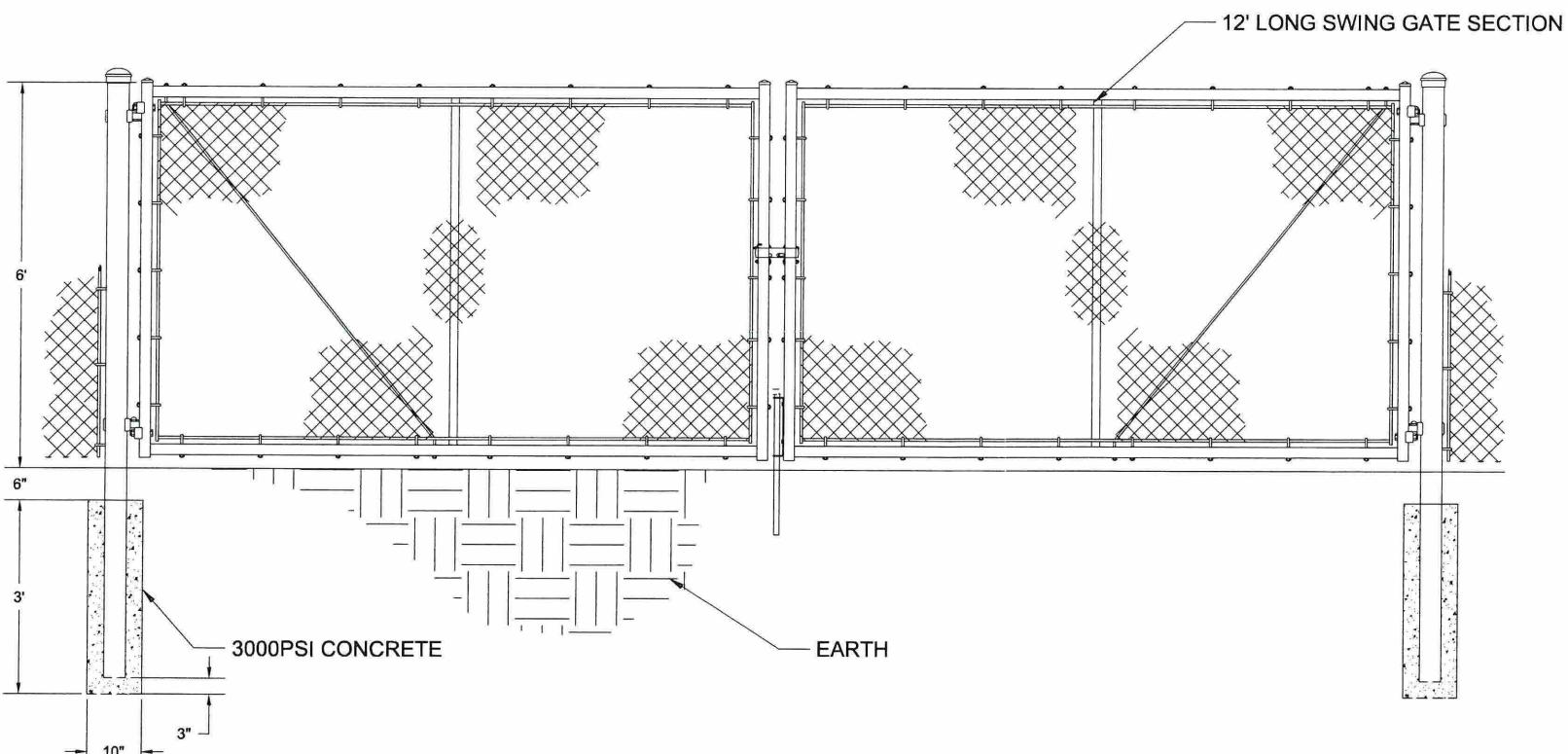
1 TYPICAL RBI RACKING DIMENSIONS

Scale: 3/8" = 1'-0"

NOTES:

1. REFER TO RACKING INSTALLATION MANUAL FOR ALL ASSEMBLY AND INSTALL INSTRUCTIONS.
2. EACH RACK SHALL HAVE AT LEAST (1) EGC CONNECTED TO IT WITH LAY-IN LUG AND STAR WASHER OR WEBB CLIP.
3. ADJACENT RACKS SHALL BE CONNECTED WITH A BARE, SOLID #6 AWG JUMPER EGC WITH (2) LAY-IN LUGS.

DRAWING ISSUE				
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction			
<input type="checkbox"/> Customer Approval	<input type="checkbox"/> As-built			
<input checked="" type="checkbox"/> Permitting	<input type="checkbox"/> Other			
REVISIONS				
Rev	By	App	Description	Date
O	GH	MK	Permit Set	05/01/2016
I	GH	MK	Permit Set Rev I	06/22/2016



2 FENCE DETAIL & 24' WIDE SWING GATE DETAIL

Scale: 3/4" = 1'-0"

Project Name: **CORONAL PANASONIC – FUSION**
Site Address: **POTASH HILL RD**
SPRAGUE, CT 06330
41°38'57.68"N, 72°04'42.45"W

Sheet Name: **GROUND MOUNT RACK & FENCE DETAIL**
Scale: **TBD**
Sheet No: **L3.1**