

WOODVILLE SOLAR PROJECT PRELIMINARY DETERMINATION APPLICATION

PROPERTY

AP 9A, LOT 18-3
RICHMOND, RI 02832

PROPERTY OWNER

WILLIAM E. JAMES
36 WOODVILLE ROAD
RICHMOND, RI 02832

PREPARED FOR:

STANDARD SOLAR, INC.
530 GAITHER ROAD, SUITE 900
ROCKVILLE, MD 20850

JANUARY 5, 2021

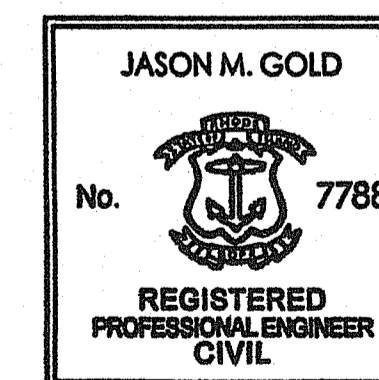
REVISED: APRIL 23, 2021

PREPARED BY:



environmental consulting
& engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com



2021.04.2

Jason M. Gold 6:18:58:37
-04'00'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 20-0258
DATED May 21 2021
SEE LETTER OF SAME DATE.

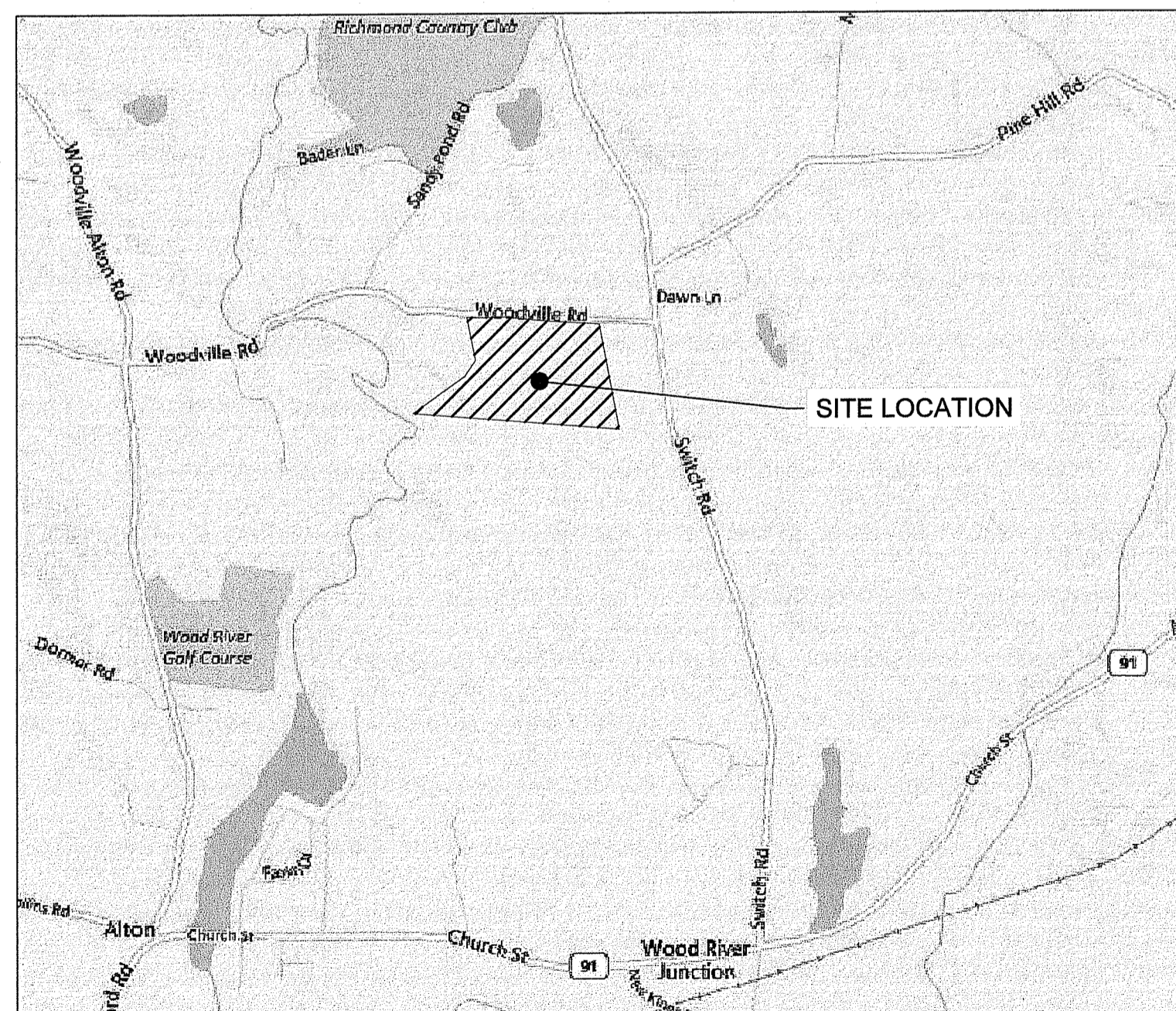
Nancy L. Freeman

Sheet List Table

DRAWING NUMBER	SHEET TITLE
-	COVER
N-1	NOTES
N-2	NOTES
I-1	INDEX SHEET
C-1	PROPOSED OVERALL PLAN
C-2	LAYOUT AND MATERIALS
C-3	LAYOUT AND MATERIALS
C-4	LAYOUT AND MATERIALS
D-1	DETAILS
D-2	DETAILS

ATTACHMENTS

PLAN OF LAND TITLED "EXISTING CONDITIONS PLAN", DATED JUNE 11, 2018, AND PREPARED BY MARSH & LONG SURVEYING INC.



LOCATION MAP
SCALE 1"=2000'



MAY - 3 2021

FOR PERMITTING PURPOSES ONLY

PLAN REFERENCES:

- EXISTING CONDITIONS INFORMATION USED ON THIS PROJECT WAS OBTAINED FROM A PLAN OF LAND TITLED "EXISTING CONDITIONS PLAN" DATED JUNE 11, 2018 AND PREPARED BY MARSH & LONG SURVEYING INC.
- PLANS DEVELOPED FROM "PERMIT APPLICATION SET" PREPARED BY TIGHE AND BOND, ENDORSED APRIL 10, 2019. EQUIPMENT LAYOUT PROVIDED ELECTRONICALLY BY STANDARD SOLAR, INC. ON DECEMBER 9, 2020.
- WETLANDS DELINEATION CONDUCTED BY TIGHE & BOND ON MAY 2, 2018 AND PROVIDED TO ESS ELECTRONICALLY ON DECEMBER 21, 2020. WETLAND EDGES DELINEATED WITH GLOBAL POSITION SYSTEM (GPS) TECHNOLOGY. OFF-PARCEL PORTION OF WETLAND 3 WAS DELINEATED WITH WETLANDS INVENTORY (NWI) DATA.
- EXISTING DEPRESSION LOCATIONS PROVIDED ELECTRONICALLY BY TIGHE & BOND ON APRIL 7, 2021.

GENERAL NOTES:

- ALL ELECTRICAL, STRUCTURAL, PHOTOVOLTAIC SYSTEM, AND LANDSCAPE DESIGN TO BE PROVIDED BY OTHERS. ELECTRICAL INTERCONNECTION LAYOUT AND DESIGN SUBJECT TO REVIEW AND APPROVAL BY INTERCONNECTING UTILITY COMPANY.
- THE FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTIONS AND DISTRIBUTION WITHIN THE FACILITY SHALL BE UNDERGROUND. ALL SOLAR ENERGY SYSTEM RELATED UTILITIES DESIGNED BY OTHERS NOT SHOWN IN THIS PLAN SET.
- EXTERIOR LIGHTING IS NOT PROPOSED.
- THE SITE IS LOCATED WITHIN THE R-3 (RESIDENTIAL, 3-ACRE MINIMUM) ZONING DISTRICT AND WITHIN THE AGRICULTURAL OVERLAY DISTRICT AND AQUIFER PROTECTION OVERLAY ZONING DISTRICT. THE PARCEL IS NOT WITHIN 400 FEET OF A COMMUNITY WELLHEAD PROTECTION AREA OR NON-COMMUNITY WELLHEAD PROTECTION AREA PER RIGIS 2019 CWHPA AND NCWHPA DATA LAYERS.
- UNDER SECTION 18.34.030 OF THE RICHMOND ZONING BYLAW, THE MINIMUM FRONT, SIDE, AND REAR YARDS REQUIRED IN R-3 BY SECTION 18.20.010 SHALL NOT APPLY. THE FRONT, SIDE AND REAR YARD FOR DEVELOPMENT SHALL BE AT LEAST 50-FEET, MEASURED FROM THE PROPERTY LINE TO THE PERIMETER OF THE SOLAR ENERGY SYSTEM.

DISTRICT	FRONT	SIDE	REAR
R-3	50'	35'	100'
R-3 (SOLAR)	50'	50'	50'

- PORTIONS OF THIS PARCEL LIE WITHIN FEMA SPECIAL FLOOD HAZARD AREAS ZONE AE - REGULATORY FLOODWAY & ZONE AE, BASE FLOOD ELEVATION (B.F.E.) 53.7 FEET, AS DEPICTED IN FLOOD PROFILE DATA IN THE FLOOD INSURANCE STUDY DATA WASHINGTON COUNTY, RI ALL JURISDICTION PANEL 51P OF 54P MAP NUMBER 44009C0154J, EFFECTIVE DATE APRIL 3, 2020.
- A PORTION OF THIS PARCEL LIES WITHIN THE NATURAL HERITAGE AREA (NUMBER 214 EFFECTIVE DATE MARCH 20, 2012) ON NOVEMBER 17, 2016 THE R.I. DEPARTMENT OF ENVIRONMENTAL MANAGEMENT CONFIRMED THAT THERE ARE NO RARE SPECIES AT THE PROJECT SITE.
- PLANTABLE SOIL OR PRIME FARMLAND SOILS NOT TO BE REMOVED FROM THE PROPERTY. PER SPECIAL USE PERMIT CONDITION #2, PLANTABLE SOIL DISPLACED DURING CONSTRUCTION SHALL BE RE-SPREAD ON SITE RATHER THAN BEING STOCKPILED, IN ORDER TO PREVENT IT FROM BEING REMOVED FROM THE PROPERTY.
- THERE ARE NO HISTORIC STRUCTURES ON THE PARCEL

EROSION AND SEDIMENT CONTROL NOTES:

- INSTALL ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED AND REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN ALL SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- DO NOT DISTURB VEGETATION AND PLANTABLE SOIL BEYOND THE PROPOSED LIMIT OF DISTURBANCE. COORDINATE WITH THE ENGINEER THE LOCATIONS FOR THE TEMPORARY STOCKPILING OF MATERIALS DURING CONSTRUCTION.
- SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS, TO BE A MAXIMUM GRADE OF 2:1, COMPACTED, STABILIZED, COVERED WITH PLANTABLE SOIL AND SEEDED AS SHOWN ON PLANS. IMMEDIATELY FINE GRADE AND SEED ALL SIDE SLOPES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- REMOVE SILT TRAPPED AT BARRIERS AND DISPOSE OF IN UPLAND AREAS OUTSIDE WETLAND SETBACKS. REMOVE MATERIALS DEPOSITED IN ANY EXISTING DRAINAGE INFRASTRUCTURE AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS.
- REMOVE ANY SEDIMENT TRACKED ONTO PUBLIC RIGHTS-OF-WAY AT THE END OF EACH DAY.
- EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN HEREIN OR AS REQUIRED TO COMPLY WITH THE RIPDES CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS.

- ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
- PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE TRIBUTARY WATERSHED. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- CARE SHOULD BE TAKEN TO THE BEST OF THE OPERATOR'S ABILITY TO AVOID DISTURBING LARGE AREAS PRIOR TO ANTICIPATED PRECIPITATION EVENTS. AT A MINIMUM, STORM EVENTS MUST BE MONITORED AND TRACKED IN ORDER TO DETERMINE WHEN POST-STORM EVENT INSPECTIONS MUST BE CONDUCTED. INSPECTIONS MUST BE CONDUCTED AND DOCUMENTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT, WHICH GENERATES AT LEAST 0.25 INCHES OF RAINFALL PER TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF OR SNOWMELT.
- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF SIX INCHES OF PLANTABLE SOIL PLACED BEFORE BEING PERMANENTLY SEEDED AND MULCHED. EXISTING PLANTABLE SOIL TO BE REUSED SHALL BE FREE OF DEBRIS. LOAM FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE BY THE ENGINEER PRIOR TO ITS DELIVERY TO THE SITE
- SEEDING SHALL OCCUR PRIOR TO OCTOBER 15TH. AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15TH, MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. AREAS SEEDED BETWEEN MAY 15TH AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
- ANY NECESSARY REPLACEMENT OR REPAIR TO EROSION CONTROL MEASURES SHALL BE PERFORMED PROMPTLY BY THE CONTRACTOR. ACCUMULATED SEDIMENT SHALL BE RE-SPREAD IN UPLAND AREAS WITHIN THE SUBJECT PROPERTY.
- SOIL AND MATERIAL STOCKPILES SHALL BE LOCATED AND MANAGED AS SHOWN HEREIN, AND AS SPECIFIED BY THE ENGINEER.
- ALL SOIL STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS REGARDLESS OF THEIR DURATION OF EXPOSURE UNTIL SUCH TIME AS THE MATERIAL IS RE-SPREAD AND STABILIZED OR TRANSPORTED OFF SITE. PLANTABLE SOIL SHALL NOT BE ALLOWED TO BE TRANSPORTED OFF SITE. FOR STOCKPILES THAT WILL BE UNUSED FOR 14 OR MORE DAYS, PROVIDE COVER OR APPROPRIATE TEMPORARY STABILIZATION.
- TEMPORARY STORAGE OF MATERIALS ON-SITE IS TO BE LOCATED AS FAR FROM WETLAND AREAS AS FEASIBLE, AND AS DIRECTED BY THE ENGINEER. THERE IS TO BE NO LONG TERM STORAGE OF MATERIAL ON-SITE. MATERIAL NOT USED ON-SITE IS TO BE TRUCKED TO AN ACCEPTABLE OFF-SITE DISPOSAL LOCATION.
- IF SEEDING IS PERFORMED WHERE WOOD CHIPS HAVE BEEN PREVIOUSLY APPLIED, THE WOOD CHIPS SHOULD BE REMOVED OR TILLED INTO THE GROUND AND ADDITIONAL NITROGEN APPLIED PRIOR TO SEEDING. NITROGEN APPLICATION RATE SHALL BE DETERMINED BY SOIL TEST AT TIME OF SEEDING.
- WOOD CHIP MULCH GENERATED ON-SITE MAY BE APPLIED TO SLOPES 3:1 OR FLATTER FOR TEMPORARY EROSION CONTROL WHEN SOIL AND SITE CONDITIONS ARE SUITABLE FOR SPREADING. ALL MULCH MATERIAL SHALL BE CAPABLE OF BEING APPLIED EVENLY SUCH THAT IT PROVIDES 100% INITIAL SOIL COVERAGE AND ADHERES TO THE SOIL SURFACE, DOES NOT SLIP ON SLOPES WHEN IT RAINS OR IS WATERED, DOES NOT BLOW OFF SITE AND DISSIPATES RAINDROF SPLASH. SPREAD WOOD CHIP MULCH UNIFORMLY RESULTING IN 100% COVERAGE OF DISTURBED SOIL TO BE STABILIZED. SUGGESTED APPLICATION RATE IS 8 CY/1,000 SQ. FT. DO NOT SPREAD WOOD CHIPS ON SLOPES SO THICK THAT IT WILL SLIP OR SLUMP.
- WHERE SOIL PROTECTION FALLS BELOW 100%, REAPPLY SOIL PROTECTION WITHIN 48 HOURS. DETERMINE THE CAUSE OF THE FAILURE. IF FAILURE WAS THE RESULT OF WIND, CONSIDER APPLYING A TACKIFIER OR NETTING. IF FAILURE WAS CAUSED BY CONCENTRATING WATER, INSTALL ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT, REPAIR EROSION DAMAGE, REAPPLY MULCH WITH ANCHORING OR USE TEMPORARY EROSION CONTROL BLANKETS.
- PERMANENT SEEDING SHALL BE USED ON AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL AND REDUCE EROSION AND SEDIMENTATION. GRASS SEED SHALL BE LOW MAINTENANCE, REQUIRING MINIMAL TO NO FERTILIZATION ONCE ESTABLISHED. RAPIDLY GROWING GRASSES SHALL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SEED MIXTURE TO BE USED FOR PERMANENT STABILIZATION IS RIDOT M.18.10.6 - NATIVE SEED MIX OR APPROVED EQUIVALENT.
- EROSION CONTROL MEASURES SHALL BE REMOVED WHEN THE DISTURBED AREA IS STABILIZED OR AS SPECIFIED BY THE ENGINEER. DISTURBED AREA RESULTING FROM THE REMOVAL OF EROSION CONTROL MEASURES SHALL BE PERMANENTLY SEEDED. ALL ACCUMULATED SEDIMENT SHALL BE RE-SPREAD IN UPLAND AREAS WITHIN THE SUBJECT PROPERTY.

- DUST FROM THE SITE SHALL BE CONTROLLED BY USING COVERED TRUCKS, WETTING EXPOSED SOIL AREAS, SEEDING, INSTALLING WIND SCREENS AND/OR BARRIERS, APPLYING SOIL STABILIZATION AGENTS, MINIMIZING UNNECESSARY TRANSFERS AND DISTURBANCES OF EARTH MATERIALS AND ON-GOING CONSTRUCTION CLEAN-UP. SEVERAL APPLICATIONS PER DAY MAY BE NECESSARY DEPENDING UPON WEATHER CONDITIONS AND WORK ACTIVITY.
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE ENTRANCE TO THE SITE. THE ENTRANCE SHALL BE APPROXIMATELY 50 FEET LONG, AND SHALL BE MADE OF RIDOT TWO (2) INCH CRUSHED STONE. THE WIDTH OF THE CONSTRUCTION ENTRANCE SHALL BE EQUAL TO THE WIDTH OF THE PROPOSED SITE ENTRANCE. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADS SHALL BE REMOVED AT THE END OF EACH DAY. DURING WET WEATHER, IT MAY BE NECESSARY TO WASH VEHICLE TIRES AT THESE LOCATIONS PRIOR TO VEHICLE LEAVING THE SITE.
- TEMPORARY WHEEL WASH STATIONS SHALL BE PROVIDED AT THE CONSTRUCTION ENTRANCES. THE WASHOUT AREA SHALL BE INSPECTED DAILY TO ENSURE ALL FLUIDS ARE CONTAINED AND CLEANED OUT PERIODICALLY TO ENSURE PROPER OPERATION.
- TEMPORARY ABOVE-GRADE CONCRETE WASHOUTS SHALL BE PROVIDED ADJACENT TO THE CONSTRUCTION ENTRANCES. THE WASHOUT AREA SHALL BE INSPECTED DAILY TO ENSURE ALL FLUIDS ARE CONTAINED AND CLEANED OUT PERIODICALLY TO ENSURE PROPER OPERATION. SELF-INSTALLED ABOVE-GRADE CONCRETE WASHOUTS SHOULD BE CONSTRUCTED WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUIDS AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. INCLUDE A MINIMUM OF 12 INCHES OF FREEBOARD IN THE SIZING CALCULATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NOT LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE, SLURRIES AND LIQUIDS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
- TREATMENT CHEMICALS SHALL NOT BE APPLIED.
- HYDRO-MULCH, HYDRACX2 OR APPROVED EQUAL, SHALL BE APPLIED AS PERMANENT SEEDING TO ALL CUT SLOPES PRIOR TO INSTALLING EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS.
- GROUNDWATER SEEPAGE OCCURRING AT CUT SLOPES SHALL BE ADDRESSED PRIOR TO INSTALLING HYDRO-MULCH AND EROSION CONTROL BLANKET/TURF REINFORCEMENT MAT.
- THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN THROUGHOUT CONSTRUCTION. THE PLAN MUST BE MAINTAINED AT THE SITE. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THIS MAY REQUIRE THE CONTRACTOR TO REVISE AND AMEND THE SESC PLAN DURING CONSTRUCTION TO ADDRESS VARYING SITE AND/OR WEATHER CONDITIONS, SUCH AS BY ADDING OR REALIGNING EROSION OR SEDIMENT CONTROLS TO ENSURE THE SESC PLAN REMAINS COMPLIANT WITH THE RIPDES CONSTRUCTION GENERAL PERMIT.
- UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, THE OPERATOR SHALL INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREAS HAS TEMPORARILY OR PERMANENTLY CEASED. ANY DISTURBED AREA THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED USING THE CONTROL MEASURES DEPICTED IN THE SESC SITE PLANS, IN ACCORDANCE WITH THE RHODE ISLAND SESC HANDBOOK, AND PER MANUFACTURER PRODUCT SPECIFICATIONS.
- TEMPORARY STRAW MULCH OR TEMPORARY EROSION CONTROL BLANKETS SHALL BE USED WHERE NON-VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN 14 DAYS BUT LESS THAN SIX MONTHS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE RESULTING IN 100% COVERAGE OF THE DISTURBED SOIL. IF ANCHORING IS NECESSARY, TACKIFIERS AND/OR NETTING EITHER WITH THE MULCH OR IMMEDIATELY FOLLOWING MULCH APPLICATION SHALL BE USED.
- TEMPORARY SEEDING SHALL BE USED WHERE VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN ONE MONTH BUT LESS THAN TWELVE MONTHS ON DISTURBED SOIL AREAS. RAPIDLY GROWING ANNUAL GRASSES WILL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SITE SHALL BE CHECKED PERIODICALLY TO ASSESS THE GROWTH OF THE PLANTS. IF SEEDING FAILS TO GROW, THE AREA SHALL BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL. THE SEED MIXTURE SHALL BE RIDOT TEMPORARY SEED MIX (M18.10.5), OR APPROVED EQUIVALENT.

- SURFACE ROUGHENING IMPLEMENTS SHALL BE USED ON SLOPES WHOSE GRADIENTS ARE BETWEEN 2:1 AND 4:1, INCLUSIVE, AS DESCRIBED IN THE MOST RECENT RHODE ISLAND SEDIMENT AND EROSION CONTROL HANDBOOK, SECTION 4. SURFACE ROUGHENING IMPLEMENTS INCLUDE BUT ARE NOT LIMITED TO:

- DISCS
- TILLERS
- SPRING-TOOTH HARROWS
- DOZER TRACK CLEATS
- FRONT LOADER BUCKET TEETH

GROOVES MAY BE MADE WITH ANY APPROPRIATE IMPLEMENT, AS MENTIONED ABOVE, WHICH CAN BE SAFELY OPERATED ON THE SLOPE AND WHICH WILL NOT CAUSE UNDUE COMPACTION. GROOVES SHALL NOT BE LESS THAN 3-INCHES DEEP NOR FURTHER THAN 15-INCHES APART AVOID EXCESSIVE COMPACTION OF THE SOIL SURFACE WHEN ROUGHENING THE SURFACE. AVOID EXCESSIVE COMPACTION OF THE SOIL SURFACE WHEN ROUGHENING THE SURFACE.

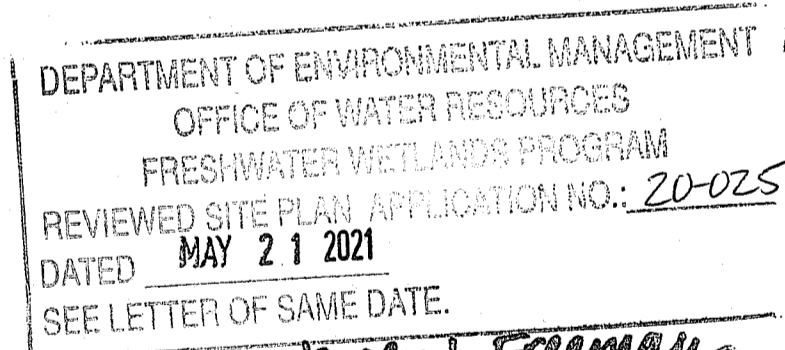
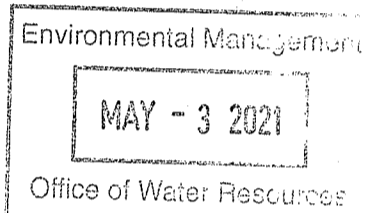
AREAS WHICH WILL NOT BE MOWED:
CUT SLOPES: GROOVES SHALL NOT BE LESS THAN 3 INCHES DEEP NOR FURTHER THAN 15 INCHES APART.
FILL SLOPES: SHALL BE GROOVED OR ALLOWED TO REMAIN ROUGH AS THEY ARE CONSTRUCTED.

AREAS WHICH WILL BE MOWED:
EXCESSIVE ROUGHNESS IS UNDESIRABLE WHERE MOWING IS PLANNED. AREAS TO BE SEEDED AND MOWED MAY BE ROUGHENED WITH SHALLOW DEPRESSIONS SUCH AS THOSE THAT REMAIN AFTER HARROWING, RAKING, OR USING A CULTIPACKER-SEEDER. DEPRESSIONS FORMED BY SUCH EQUIPMENT SHOULD BE AT LEAST 1 INCH DEEP AND NOT FURTHER THAN 12 INCHES APART. THE FINAL PASS OF ANY EQUIPMENT SHALL BE ON THE CONTOUR (PERPENDICULAR TO THE DIRECTION OF THE SLOPE).

CUT SLOPES:
GROOVES MAY BE MADE WITH ANY APPROPRIATE IMPLEMENT WHICH CAN BE SAFELY OPERATED ON THE SLOPE AND WHICH WILL NOT CAUSE UNDUE COMPACTION.

FILL SLOPES:
AS LIFTS OF THE FILL ARE CONSTRUCTED, SOIL AND ROCK MATERIALS MAY BE ALLOWED TO FALL NATURALLY ONTO THE SLOPE SURFACE AFTER FILLING IS COMPLETED. AFTER FILLING IS COMPLETED, IF THE SURFACE IS NOT SUFFICIENTLY ROUGHENED, GROOVE OR TRACK THE SURFACE THE SAME AS FOR CUT SLOPES. SLOPES SHALL NOT BE BLADED OR SCRAPED TO PRODUCE A SMOOTH, HARD SURFACE, EXCEPT WHERE SLOPES ARE MEANT TO BE USED AS A TRAVELWAY FOR VEHICLES AND ADDITIONAL EROSION AND SEDIMENT CONTROLS ARE INSTALLED.

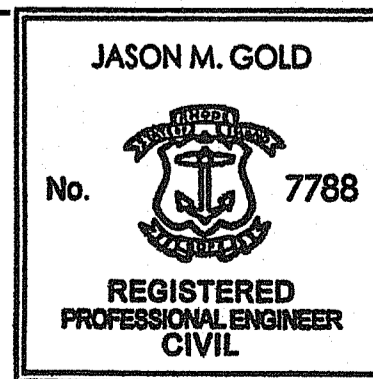
- TOPOGRAPHY AND BOUNDARIES OF THE EXISTING DEPRESSIONS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND WILL SERVE AS POST-CONSTRUCTION STORMWATER MANAGEMENT FEATURES.



404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

STANDARD SOLAR, INC.
1355 PICCARD DRIVE, SUITE 300
ROCKVILLE, MD 20850

WOODVILLE SOLAR
AP 9-A LOT 18-3
RICHMOND, RI 02832



2021.04.26
18:58:17
-04'00'

1	RESPONSE TO RIDEM TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR			DESIGNED BY: JMG		CHECKED BY: JMG

PRELIMINARY DETERMINATION NOTES

FOR PERMITTING ONLY

DRAWING NO:

N-1

PROJECT NO: S484-000
DATE OF ISSUE: 1/5/2021
SHEET NO: 2 OF 10

DATE: Apr 22, 2021 - 1:48PM
FILENAME: J:\668-000 Standard Solar Inc. - Woodville Solar - Design and Permitting\04 - GRAPHICS\040-Drawing\040-RIDEM PD\040-RIDEM PD - NOTES.dwg
Copyright © ESS Group, Inc. 2021

UTILITIES NOTES:

- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE APPROPRIATE.
- ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED, OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- EXISTING FIELD MAY HAVE UNDERGROUND DRAINAGE STRUCTURES. THE CONTRACTOR SHALL CONFIRM AND PROTECT ALL EXISTING UNDERGROUND UTILITY STRUCTURES PRIOR TO INSTALLATION OF SOLAR EQUIPMENT.

GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS ARE OBSERVED THAT SIGNIFICANTLY VARY FROM THOSE SHOWN ON THESE PLANS, IMMEDIATELY NOTIFY THE ENGINEER AND OWNER FOR RESOLUTION OF THE CONFLICTING INFORMATION.
- THE CONTRACTOR SHALL COMPLY WITH OSHA'S LATEST STANDARDS. PROVIDE ALL REQUIREMENTS OF OSHA'S EXCAVATION STANDARDS, INCLUDING BUT NOT LIMITED TO PROVISION FOR A COMPETENT PERSON ON SITE AND ALL DOCUMENTATION REQUIRING CERTIFICATION BY A PROFESSIONAL ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION. LEAVE ALL PIPES, SWALES AND STRUCTURES WITHIN THE LIMIT OF THIS CONTRACT IN CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE SYSTEM. CONTRACTOR IS RESPONSIBLE FOR DAMAGE SUSTAINED TO ANY EXISTING UTILITIES AND WILL MAKE REPAIRS THAT COMPLY WITH REQUIREMENTS OF OWNER OR RESPECTIVE UTILITY COMPANY.
- THE CONTRACTOR SHALL APPLY A MINIMUM OF SIX INCHES OF PLANTABLE SOIL AND SEED TO ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
- NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE ENGINEERS AND/OR APPLICANT/OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
- WORK WITHIN LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS.
- UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR FIRE HYDRANTS WITHOUT APPROPRIATE PERMITS.

- AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
- DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO CROSS AND/OR IMPACT WETLAND RESOURCE AREAS DURING CONSTRUCTION.
- IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, SEDIMENT, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- THE CONTRACTOR SHALL ESTABLISH LIMITS OF DISTURBANCE INDICATED ON THE PLANS WITH ACCEPTABLE VISIBLE MARKERS. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED.
- MAINTENANCE OR REFUELING OF VEHICLES OR CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM ANY AREA WITHIN 100 FEET OF A WETLAND.
- FILL MATERIAL SHALL BE FREE FROM DELETERIOUS MATERIALS SUCH AS, BUT NOT LIMITED TO, STUMPS, WOOD, AND ROOTS.
- ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL INSPECT THE SITE AND RECTIFY CONDITIONS AS NEEDED TO PROVIDE A SAFE AND STABLE GROUND SURFACE. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A SAFE AND CLEAN CONDITION FOR THE DURATION OF CONSTRUCTION.
- UNLESS OTHERWISE SPECIFIED, ALL WORK AND MATERIALS HEREIN SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, AS SUPPLEMENTED AND RHODE ISLAND STANDARD DETAILS, JUNE 15, 1998, AS AMENDED BY REVISION. THIS WORK MAY INCLUDE BUT IS NOT LIMITED TO:

- SECTION 201 - SITE PREPARATION
- SECTION 202 - EXCAVATION AND EMBANKMENT
- SECTION 203 - STRUCTURE EXCAVATION AND BACKFILL
- SECTION 204 - TRIMMING AND FINE GRADING
- SECTION 205 - TRENCH EXCAVATION
- SECTION 206 - PERIMETER EROSION CONTROLS
- SECTION 211 - CONSTRUCTION ACCESS
- SECTION 212 - MAINTENANCE AND CLEANING OF EROSION CONTROLS
- SECTION 301 - AGGREGATE AND GRAVEL BASE COURSES
- SECTION 302 - GRAVEL BORROW SUBBASE COURSES
- SECTION 903 - FENCES
- SECTION 907 - DUST CONTROL
- SECTION 931 - CLEANING AND SWEEPING PAVEMENT
- SECTION 934 - FIELD CONTROL AND CONSTRUCTION LAYOUT
- SECTION 936 - MOBILIZATION AND DEMOBILIZATION
- SECTION L.01 - LOAM, PLANTABLE SOIL OR HIGH ORGANIC SOIL
- SECTION L.02 - SEEDING
- SECTION M.01 - BORROW AND AGGREGATES
- SECTION M.02 - PORTLAND CEMENT CONCRETE
- SECTION M.18 - LANDSCAPING MATERIALS

- THE CONTRACTOR SHALL INSTALL SIGNAGE INDICATING MANUFACTURER'S IDENTIFICATION, INSTALLER'S IDENTIFICATION, EQUIPMENT INFORMATION, INDICATION OF OWNERSHIP, AND APPROPRIATE WARNING STATEMENTS SHALL BE POSTED ON OR NEAR THE SOLAR MODULES IN A CLEAR VISIBLE MANNER AND SHALL COMPLY WITH PREVAILING REGULATIONS. SIGNS SHALL NOT BE PLACED BEHIND TREES REFERENCED IN NOTE 24.
- THE CONTRACTOR SHALL INSTALL WARNING/DANGER SIGNAGE TO BE INSTALLED AT 300 FT INTERVALS ON PERIMETER FENCE AND NO TRESPASSING SIGN TO BE INSTALLED AT 100 FT INTERVALS, WITH MIN (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
- THE CONTRACTOR SHALL POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON EACH GATE PER BUILDING INSPECTOR. REFER TO THE FENCE DETAIL ON SHEET D-1 FOR EMERGENCY CONTACT INFORMATION SIGNAGE DETAIL.
- PER SPECIAL USE PERMIT CONDITION 1, THE REQUIRED VEGETATIVE BUFFER SHALL CONSIST OF TWO STAGGERED TIERS OF DEER-RESISTANT EVERGREEN TREES OR BUSHES BETWEEN NINE AND ONE-HALF FEET AND TEN FEET TALL, MEASURED FROM FINISHED GRADE, AT THE TIME OF PLANTING. THE TREES SHALL BE PLANTED 15 FEET ON CENTER. THE OWNER OF THE SOLAR ENERGY SYSTEM SHALL CONTINUOUSLY MONITOR THE HEALTH OF THE VEGETATION AND PROMPTLY REPLACE ANY TREE OR BUSH THAT IS DEAD OR DYING.

CONSTRUCTION SEQUENCE NOTES:

PHASING SHALL BE IMPLEMENTED TO MINIMIZE THE AMOUNT OF EARTH DISTURBANCE AT ANY ONE TIME. EARTH DISTURBANCE ACTIVITIES DURING EACH PHASE OF CONSTRUCTION SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES WITH A COMMON DRAINAGE LOCATION. INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED AND PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.

CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO MINIMIZE DISTURBANCE OF EXISTING CONDITIONS AND OPERATIONS AND SHALL GENERALLY BE CONDUCTED AS FOLLOWS:

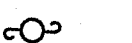
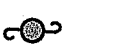
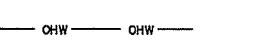
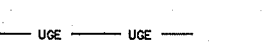
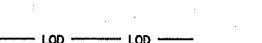




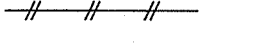


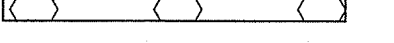
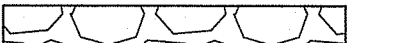
- CONDUCT A PRECONSTRUCTION MEETING WITH THE OWNER OR OWNER'S REPRESENTATIVE, REPRESENTATIVES/OFFICIALS OF THE TOWN OF RICHMOND, DESIGN ENGINEER, CONTRACTOR AND SITE SUPERINTENDENT TO ESTABLISH THE LIMITS OF CONSTRUCTION AND CONSTRUCTION PROCEDURES.
- FIELD MARK THE LIMITS OF DISTURBANCE.
- INSTALL ALL APPLICABLE SOIL AND EROSION CONTROL MEASURES AROUND THE PERIMETER OF THE SITE TO THE EXTENT POSSIBLE. THIS WILL INCLUDE THE CONSTRUCTION ENTRANCE AND SILTATION FENCE AROUND THE PROJECT AS SHOWN ON THE PLANS.
- ESTABLISH TEMPORARY STAGING AREA.
- CONSTRUCT ACCESS ROAD.
- CLEAR TREES AND STUMPS.
- CONSTRUCT THE SOLAR ARRAY AND ASSOCIATED WORK SUCH AS FENCING, EQUIPMENT PADS, ALL ELECTRICAL COMPONENTS, AND DUCTBANKS.
- RESTORE TEMPORARY STAGING AREA BY REMOVING CRUSHED STONE AND FILTER CLOTH AND SUITABLY AMENDING SOILS TO RESTORE INFILTRATION CAPACITY. AERATE ANY EXISTING TURF AREAS THAT HAVE BECOME COMPACTED DURING CONSTRUCTION.

- PERMANENTLY STABILIZE ANY DISTURBED AREAS IMPACTED BY CONSTRUCTION ACTIVITIES.
- REMOVE EROSION CONTROLS AND PERMANENTLY STABILIZE AREAS DISTURBED BY THE REMOVAL OF EROSION CONTROLS.

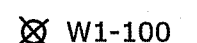





DOCUMENT USE:

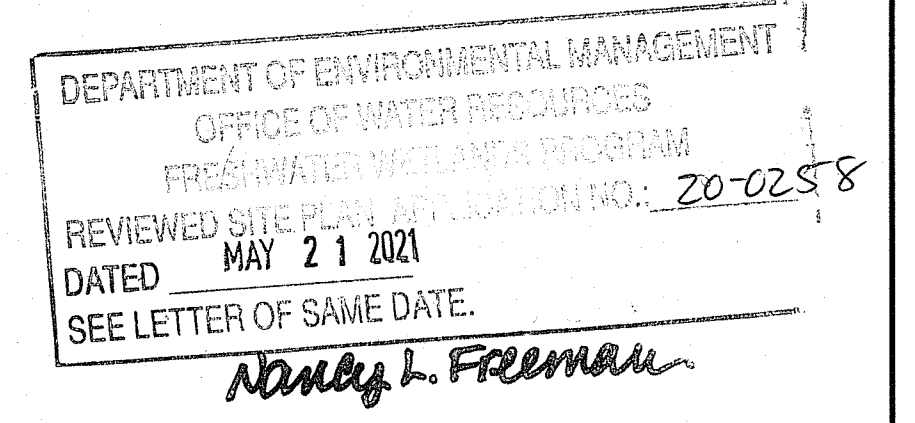
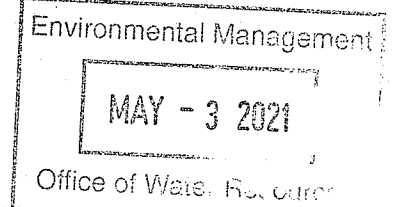
- THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY ESS GROUP, INC., AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED WRITTEN CONSENT OF ESS GROUP, INC. ANY UNAUTHORIZED USE, REUSE, MODIFICATION, OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT, SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO ESS GROUP, INC.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, OR DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS OR OWNER, BUT SHALL VERIFY LOCATIONS OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS, AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

PROPOSED LEGEND

-  ELECTRICAL PROVIDER OWNED UTILITY POLE
-  CUSTOMER OWNED UTILITY POLE
-  OVERHEAD ELECTRICAL
-  UNDERGROUND UTILITIES
-  LIMIT OF DISTURBANCE
-  FILTER SOCK
-  COMBINED SILT FENCE & FILTER SOCK / LIMITS OF DISTURBANCE
-  CHAINLINK FENCE
-  CHAINLINK FENCE WITH PRIVACY SLATS
-  PROPOSED TREE LINE
-  VEGETATIVE BUFFER
-  GRAVEL ROAD
-  CONSTRUCTION ENTRANCE
-  TEMPORARY STAGING AREA

EXISTING RESOURCE AREA LEGEND

-  W1-100 WETLAND FLAG
-  PERIMETER WETLAND
-  HYDROLOGIC SOIL GROUP BOUNDARY
-  EFB HYDROLOGIC SOIL GROUP MAP UNIT SYMBOL
-  FEMA SPECIAL FLOOD HAZARD AREA - ZONE AE (BFE 53.7)
-  FEMA SPECIAL FLOOD HAZARD AREA - ZONE AE REGULATORY FLOODWAY



ess group
environmental consulting & engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

STANDARD SOLAR, INC.
1355 PICCARD DRIVE, SUITE 300
ROCKVILLE, MD 20850

WOODVILLE SOLAR
AP 9-A LOT 18-3
RICHMOND, RI 02832

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER CIVIL

2021.04.26		18:57:57		-04'00'	
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR		DESIGNED BY: JMG		CHECKED BY: JMG	

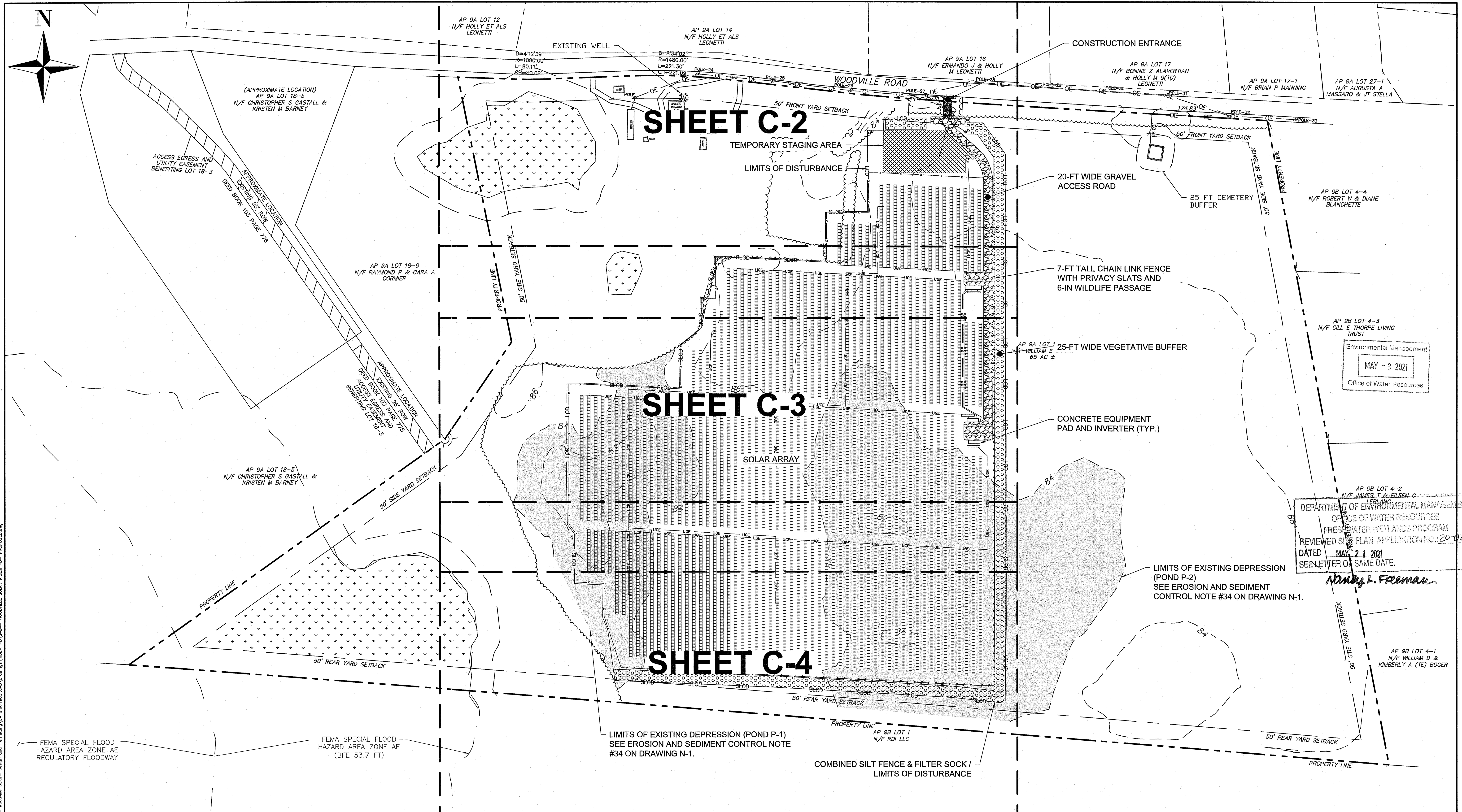
PRELIMINARY DETERMINATION NOTES

FOR PERMITTING ONLY

DRAWING NO: **N-2**

PROJECT NO: 8484-000
DATE OF ISSUE: 1/9/2021
SHEET NO: 9 OF 10

DATE: Apr 22, 2021 - 14:05 PM FILENAME: A:\S&E\000 Standard Solar Inc. - Woodville Solar - Design and Permitting\04_gis\graphics\CAD\Drawings\RIDEM_PDF\3484- Woodville Solar RIDEM PDF - NOTES.dwg



SHEET C-2

SHEET C-3

SHEET C-4

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESH WATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 20-0258
 DATED MAY 21 2021
 SEE LETTER OF SAME DATE.

Environmental Management
 MAY - 3 2021
 Office of Water Resources

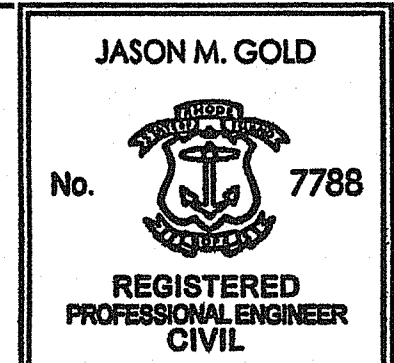
DATE: Apr 22, 2021, 11:48PM FILENAME: A:\3484-000 Standard Solar Inc. - Woodville Solar- Design and Permitting\04 Graphics\CAD Drawings\WSDM_P01\3484-000 Woodville Solar RIDEW.P01.dwg



404 Wyman Street, Suite 375
 Waltham, Massachusetts 02451
 p 781.419.7696
 www.essgroup.com

STANDARD SOLAR, INC.
 1355 PICCARD DRIVE, SUITE 300
 ROCKVILLE, MD 20850

WOODVILLE SOLAR
 AP 9-A LOT 18-3
 RICHMOND, RI 02832



0 100' 200'
 SCALE: 1" = 100'
 2021.04.26
 18:57:34
 -04'00"

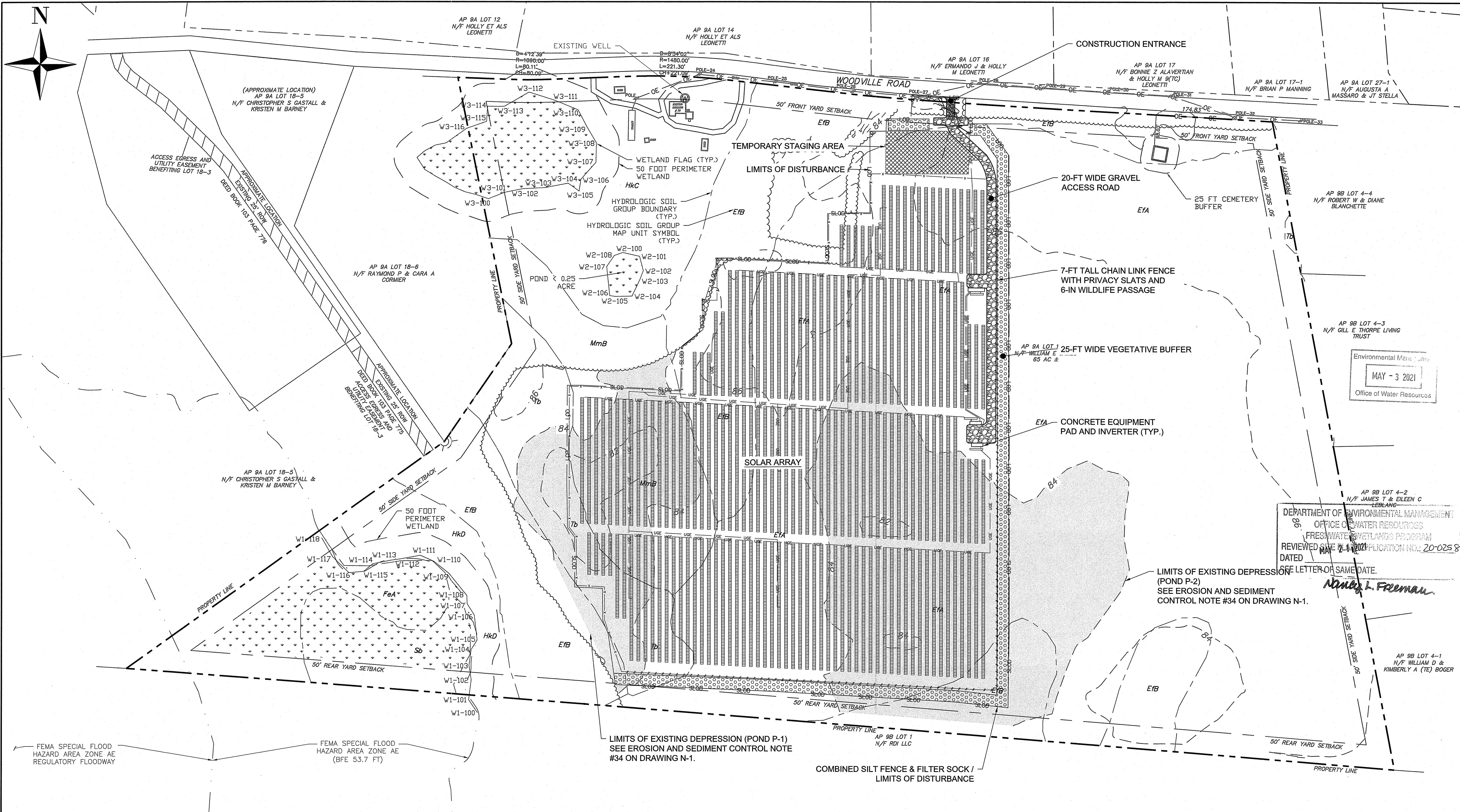
No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO RIDEW TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG

DRAWN BY: GJR DESIGNED BY: JMG CHECKED BY: JMG

**PRELIMINARY DETERMINATION
 INDEX SHEET**

FOR PERMITTING ONLY

DRAWING NO:
1-1
 PROJECT NO: 8484-000
 DATE OF ISSUE: 18/2021
 SHEET NO: 4 OF 10



Environmental Maps Unit
 MAY - 3 2021
 Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 20-0258
 DATED MAY 21 2021
 SEE LETTER OF SAME DATE.

Monica L. Freeman

FEMA SPECIAL FLOOD HAZARD AREA ZONE AE REGULATORY FLOODWAY

FEMA SPECIAL FLOOD HAZARD AREA ZONE AE (BFE 53.7 FT)

LIMITS OF EXISTING DEPRESSION (POND P-1) SEE EROSION AND SEDIMENT CONTROL NOTE #34 ON DRAWING N-1.

LIMITS OF EXISTING DEPRESSION (POND P-2) SEE EROSION AND SEDIMENT CONTROL NOTE #34 ON DRAWING N-1.

COMBINED SILT FENCE & FILTER SOCK / LIMITS OF DISTURBANCE

DATE: Apr 22, 2021 - 1:48PM
 FILENAME: A:\S484-C00 Standard Solar Inc. - Woodville Solar- Design and Permitting\04 Environmental\04 Drawings\04 RIBEM P-1- WOODVILLE SOLAR RIBEM P-1- PROPOSED.dwg
 Copyright © ESS Group, Inc. 2021



404 Wyman Street, Suite 375
 Waltham, Massachusetts 02451
 p 781.419.7696
 www.essgroup.com

STANDARD SOLAR, INC.
 1355 PICCARD DRIVE, SUITE 300
 ROCKVILLE, MD 20850

WOODVILLE SOLAR
 AP 9-A LOT 18-3
 RICHMOND, RI 02832

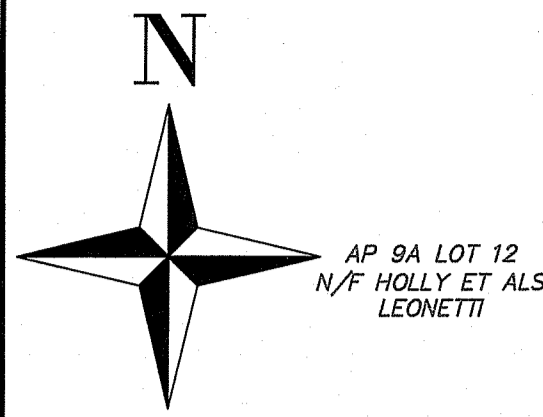


0 100' 200'
 SCALE: 1" = 100'
 2021.04.26
Jason Gold
 18:57:15
 -04'00"

1	RESPONSE TO RIDEM TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR			DESIGNED BY: JMG	CHECKED BY: JMG	

**PRELIMINARY DETERMINATION
 PROPOSED OVERALL PLAN**
FOR PERMITTING ONLY

DRAWING NO:
C-1
 PROJECT NO: S484-000
 DATE OF ISSUE: 1/8/2021
 SHEET NO: 6 OF 10

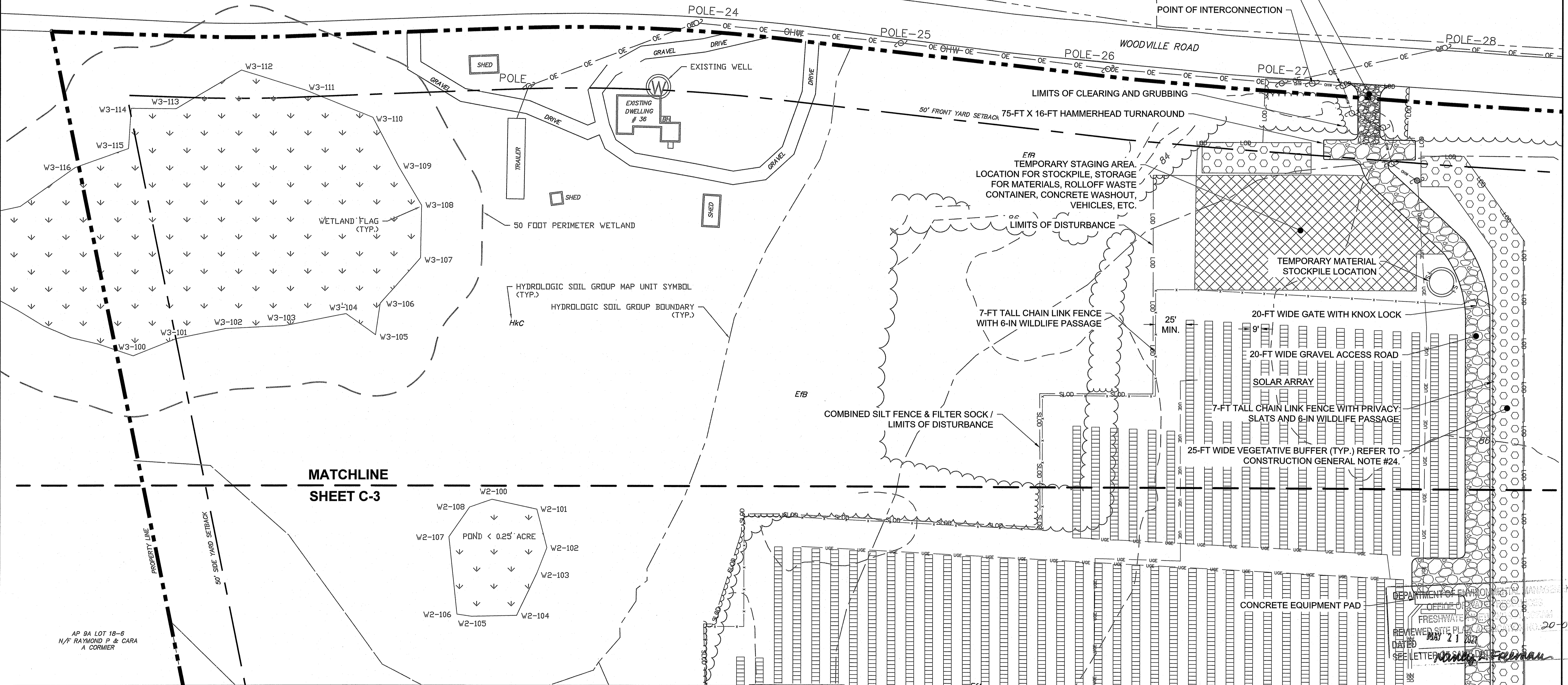


AP 9A LOT 12
N/F HOLLY ET ALS
LEONETTI

AP 9A LOT 14
N/F HOLLY ET ALS
LEONETTI

Environmental Management
MAY - 3 2021
Office of Water Resources

AP 9A LOT 16
N/F ERMANNO J & HOLLY
M LEONETTI



MATCHLINE
SHEET C-3

DATE: Apr 22, 2021 - 14:58PM
FILENAME: A:\S484-000 Standard Solar Inc. - Woodville Solar Design and Permitting\04_GRAPHICS\040_Drawing\A2021\WOODVILLE SOLAR RIDEM PD - PROPOSED.dwg

ess group
environmental consulting & engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

STANDARD SOLAR, INC.
1355 PICCARD DRIVE, SUITE 300
ROCKVILLE, MD 20850

WOODVILLE SOLAR
AP 9-A LOT 18-3
RICHMOND, RI 02832

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER CIVIL

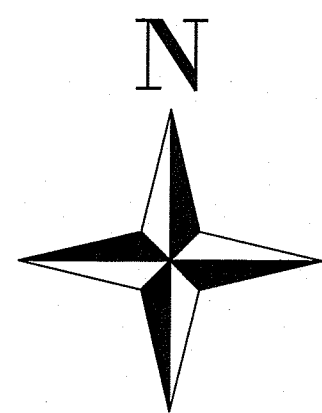
SCALE: 1" = 40'
2021.04.26
18:56:57
-04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG

PRELIMINARY DETERMINATION LAYOUT AND MATERIALS
FOR PERMITTING ONLY

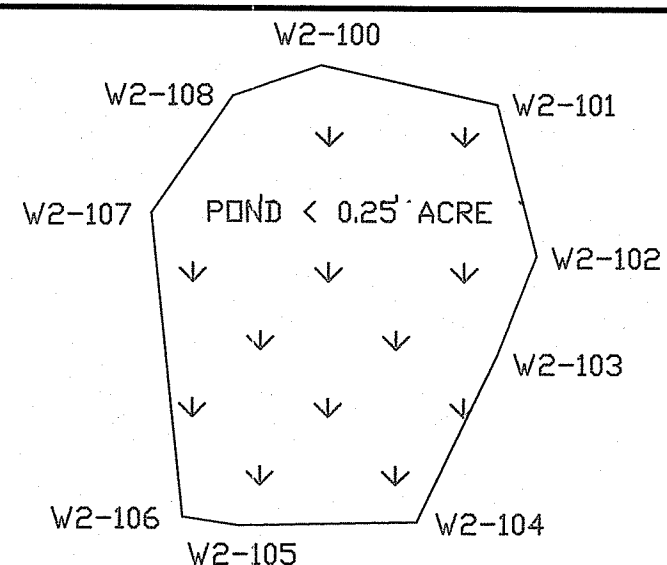
DRAWING NO: **C-2**
PROJECT NO: S484-000
DATE OF ISSUE: 1/5/2021
SHEET NO: 6 OF 10

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF PERMITS
FRESHWATER
REVIEWED SITE PLAN
DATE: MAY 21 2021
SEE LETTER TO PERMITTEE



AP 9A LOT 18-6
N/F RAYMOND P & CARA
A CORMIER

SHEET C-2
MATCHLINE



7-FT TALL CHAIN LINK FENCE
WITH 6-IN WILDLIFE PASSAGE

COMBINED SILT FENCE & FILTER SOCK /
LIMITS OF DISTURBANCE

SOLAR ARRAY

CONCRETE EQUIPMENT PAD

20-FT WIDE GRAVEL ACCESS
ROAD

7-FT TALL CHAIN LINK FENCE
WITH PRIVACY SLATS AND
6-IN WILDLIFE PASSAGE

25-FT WIDE VEGETATIVE
BUFFER. REFER TO
CONSTRUCTION GENERAL
NOTE #24.

CONCRETE EQUIPMENT PAD

40-FT X 64-FT TURNAROUND

CONCRETE EQUIPMENT PAD

LIMITS OF EXISTING DEPRESSION
(POND P-2)

LIMITS OF EXISTING DEPRESSION
(POND P-1)

MATCHLINE
SHEET C-4

DEPARTMENT OF ENVIRONMENTAL AND PLANNING
OFFICE OF WATER RESOURCES
FRESHWATER DIVISION
REVIEWED SITE PLAN APPLICATION
DATED MAY 21 2021
SEE LETTER OF SAME DATE

Nancy L. Freeman

P:\2021\186PM\186PM.dwg 2021-05-21 1:46PM Jason Gold Standard Solar Inc. - Woodville Solar - Design and Permitting\04 - SERVICES\03 Drawings\03A - WOODVILLE SOLAR REBU RD - PROPOSED.dwg

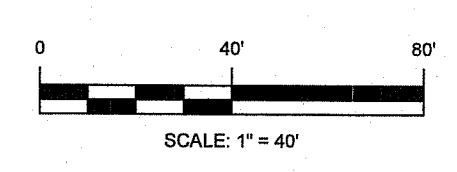


404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

STANDARD SOLAR, INC.
1355 PICCARD DRIVE, SUITE 300
ROCKVILLE, MD 20850

WOODVILLE SOLAR
AP 9-A LOT 18-3
RICHMOND, RI 02832

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER CIVIL

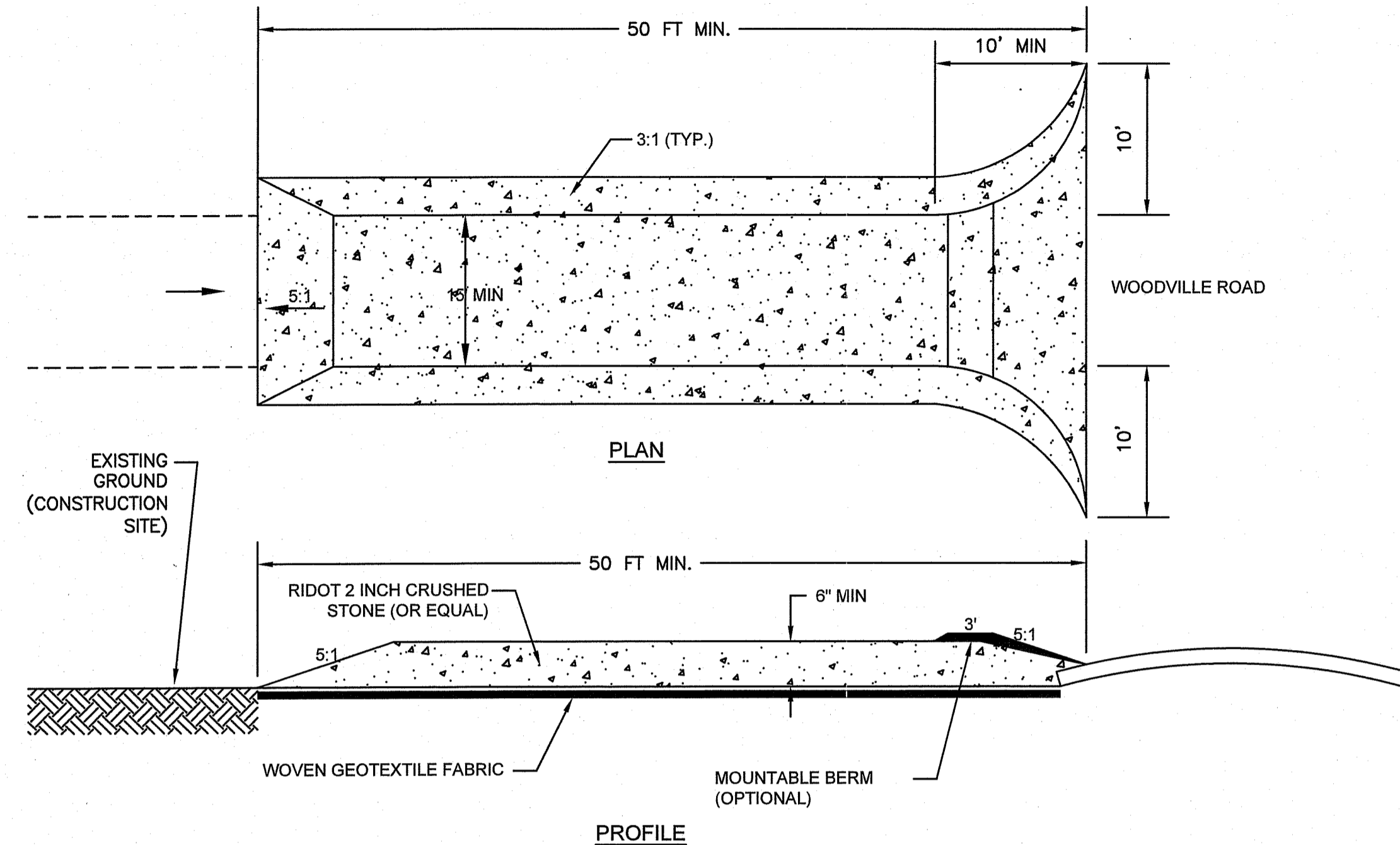


2021.04.26
18:56:39
-04'00'

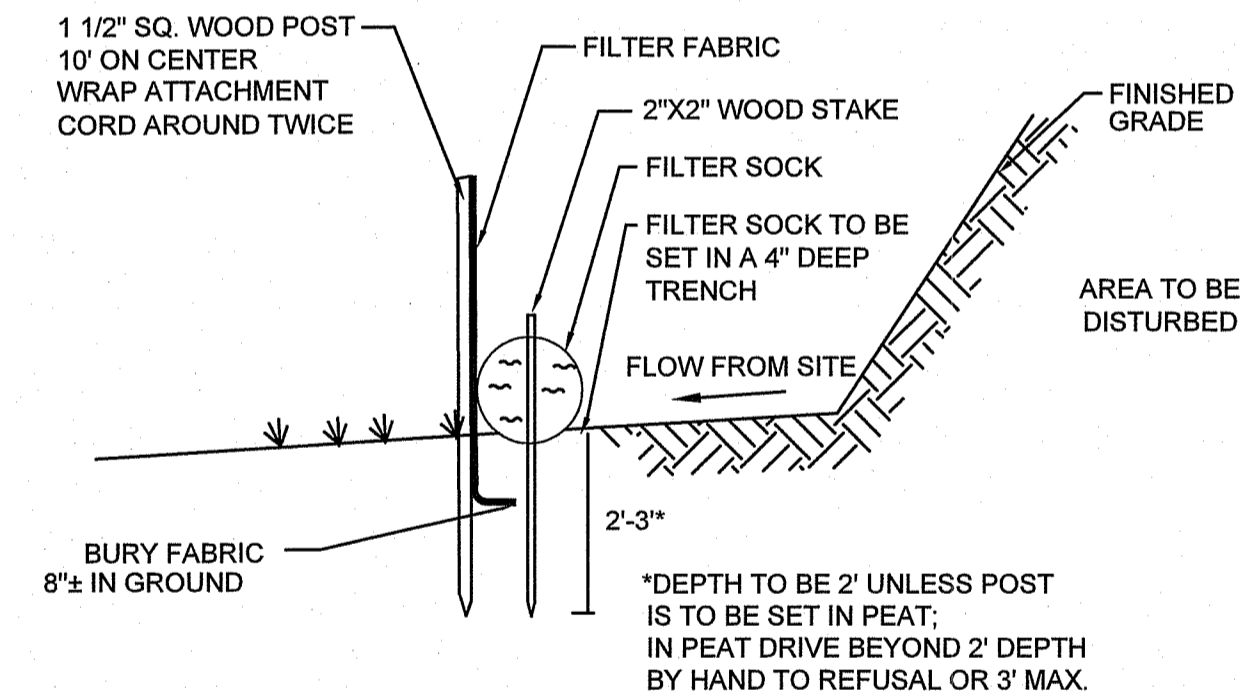
No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG

**PRELIMINARY DETERMINATION
LAYOUT AND MATERIALS**
FOR PERMITTING ONLY

DRAWING NO:
C-3
PROJECT NO: S484-000
DATE OF ISSUE: 10/2021
SHEET NO: 7 OF 10

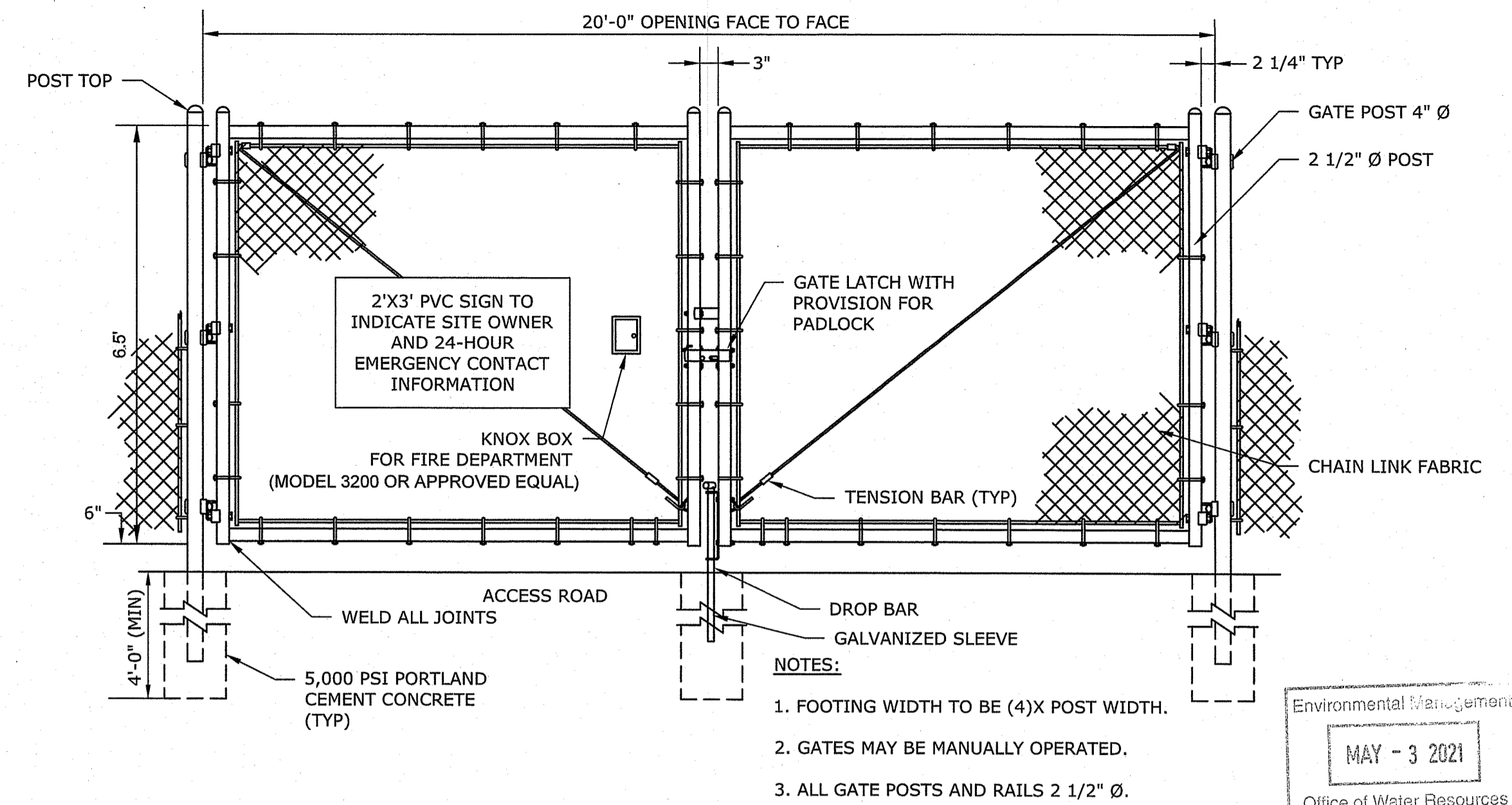


1 TYPICAL CONSTRUCTION ENTRANCE
SCALE: NTS

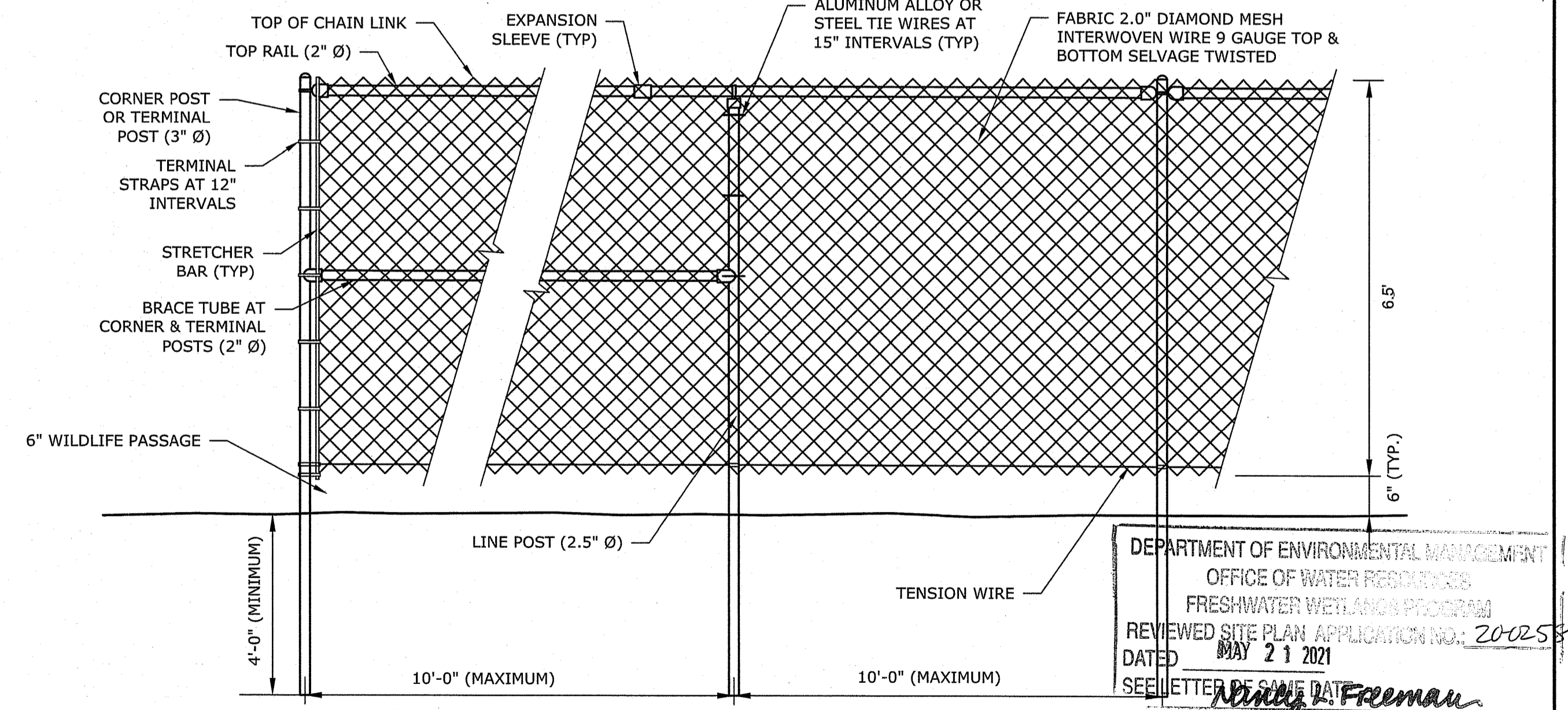


- CONSTRUCTION SPECIFICATIONS**
1. FILTER SOCKS SHALL BE FILTREXX SILT SOCKS OR EQUIVALENT APPROVED BY THE OWNER. FILTER SOCK AND COMPOST MATERIALS SHALL BE IN ACCORDANCE WITH AASHTO MP 9-06, LATEST REVISION.
 2. FILTER SOCKS SHALL BE 12 INCHES IN DIAMETER.
 3. FILTER SOCKS SHALL BE PLACED IN ACCORDANCE WITH THIS PLAN SET AND IN A ROW WITH ENDS OVERLAPPING 2 FEET (MIN.).
 4. FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES, 10 FEET ON CENTER (MAX).
 5. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 6. FILTER SOCKS SHALL NOT BE MOVED TO OTHER LOCATIONS IN THE PROJECT ONCE PLACED.

2 TYPICAL COMBINED SILT FENCE AND FILTER SOCK & LIMITS OF DISTURBANCE(SLOD)
SCALE: NTS



- CHAINLINK FENCING NOTES:**
1. FENCING SHALL INCLUDE PRIVACY SLATS ON THE LOCATIONS SPECIFIED ON THE DRAWINGS
 2. UNLESS OTHERWISE NOTED ON THE SITE PLANS, ALL CHAINLINK FENCING COMPONENTS SHALL HAVE A HOT DIPPED GALVANIZED FINISH. ANY CHIPS IN THE GALVANIZED FINISH DUE TO SITE INSTALLATION SHOULD BE MINIMIZED AND REPAIRED WITH INDUSTRIAL GRADE GALVANIZED PAINT. ALL CUT ENDS ARE TO BE FINISHED WITH INDUSTRIAL GRADE PAINT ON GALVANIZED FINISH.
 3. CHAINLINK FABRIC SHALL BE MADE OF 9 GAUGE STEEL WIRE, 2" MESH SIZE, AND HOT DIPPED GALVANIZED PRIOR TO WEAVING. THE FABRIC SHALL BE FINISHED WITH A SELVAGE TWIST TOP AND BOTTOM.
 4. ALL POSTS ARE TO BE PLUMB IN ALL DIRECTIONS.
 5. LINE POSTS MAY BE HAMMER DRIVEN IF HAMMER DRIVEN, POST END MUST BE CUT TO FINAL HEIGHT AFTER DRIVING IS COMPLETE. CUT END IS TO BE CUT SQUARE AND FREE OF BENDS, MUSHROOMING, AND BURRS. CUT END TO BE TREATED AS PER NOTE #1.
 6. LINE & TERMINAL POSTS, BRACE TUBES, TOP RAILS, & GATE POSTS SHALL ALL BE SCHEDULE 40 PIPE. REFERENCED DIAMETER IS NOMINAL.
 7. ALL FENCE POSTS TO HAVE CAPS.
 8. SEE DETAILS 4 AND 5 ON DRAWING NUMBER D-2 FOR DANGER SIGN AND NO TRESPASSING SIGN DETAILS.



3 CHAIN LINK FENCE
SCALE: NTS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO: 20-02-58
DATED: MAY 21 2021
SEE LETTER OF SAME DATE

ess group
environmental consulting & engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7896
www.essgroup.com

STANDARD SOLAR, INC.
1355 PICCARD DRIVE, SUITE 300
ROCKVILLE, MD 20850

WOODVILLE SOLAR
AP 9-A LOT 18-3
RICHMOND, RI 02832

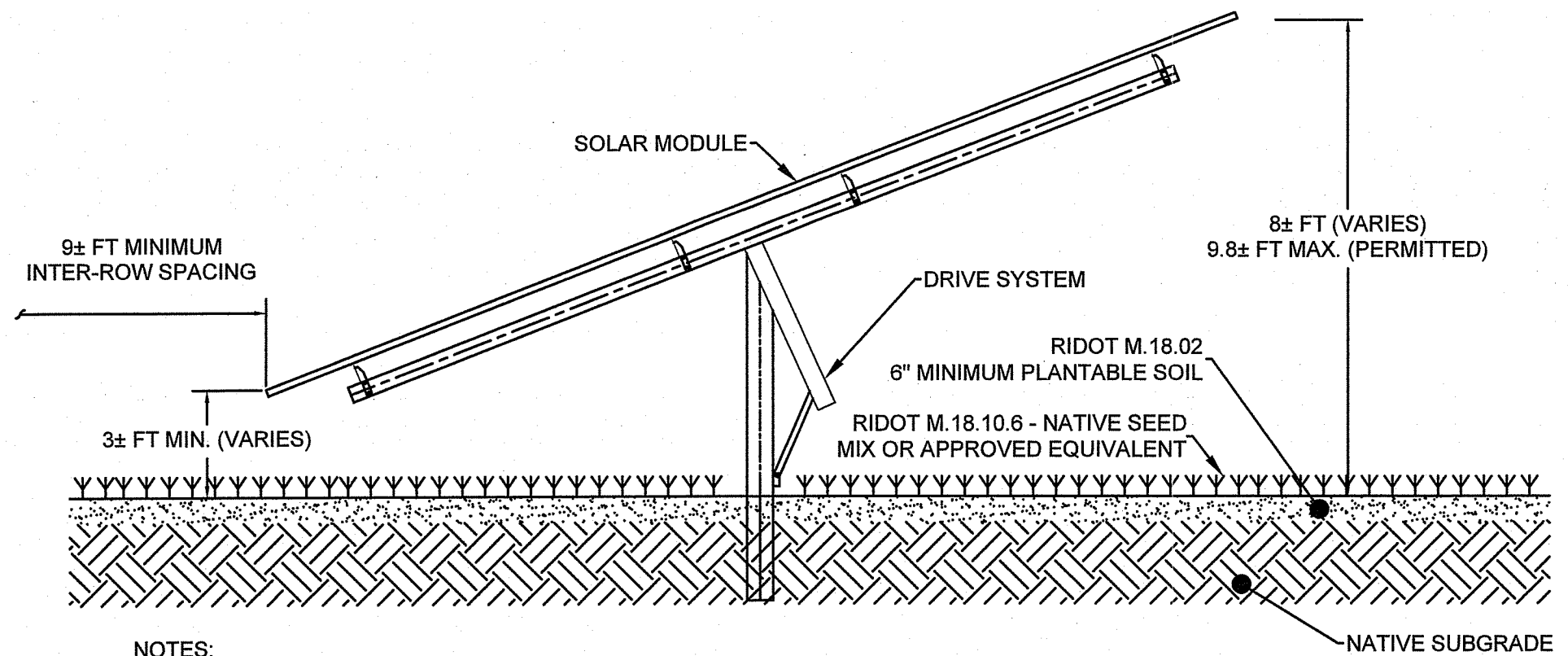
JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER CIVIL

2021.01.0	5 15:13:49	-05'00'							
No. REVISION	DATE	DRAWN	DESIGN	CHK					
DRAWN BY: GJR	DESIGNED BY: JMG	CHECKED BY: JMG							

PRELIMINARY DETERMINATION DETAILS
FOR PERMITTING ONLY

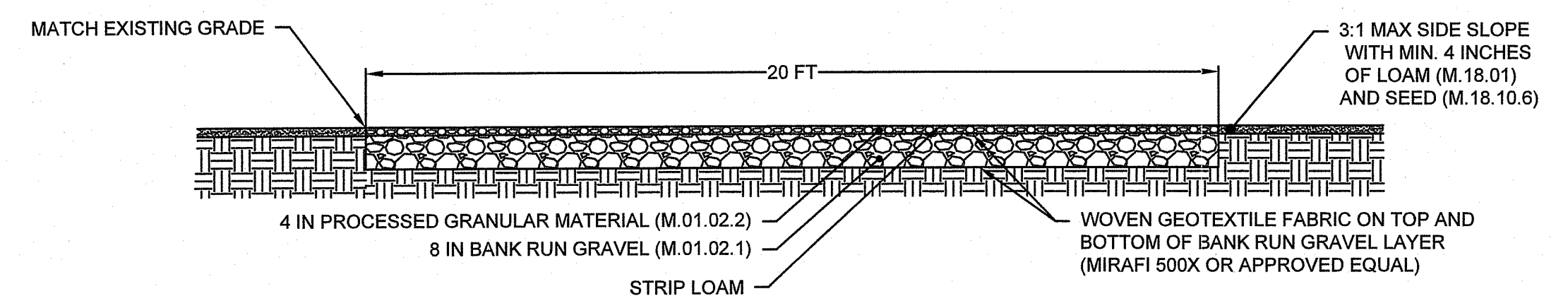
DRAWING NO: **D-1**
PROJECT NO: 5864-000
DATE OF ISSUE: 1/9/2021
SHEET NO: 9 OF 10

DATE: Jan 05, 2021 - 3:04PM
FILENAME: A:\5864-000 Standard Solar Inc. - Woodville Solar- Design and Permitting\04 GRAPHICS\DWG\Drawings\Wetland\PS\S484- WOODVILLE SOLAR RIDEN PD - DETAILS.dwg
Copyright © ESS Group, Inc. 2021

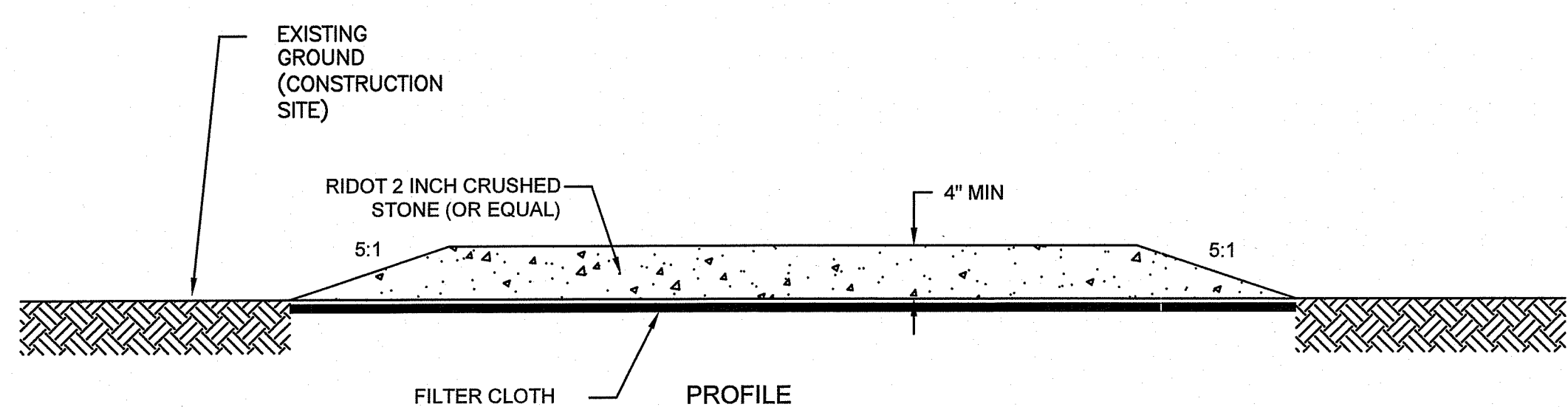


- NOTES:**
1. RACK STRUCTURE AND PV MODULES SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL COMPONENTS AND DIMENSIONS TO BE DESIGNED BY OTHERS. FOUNDATION TYPE TO BE DETERMINED BY OTHERS. CONCRETE BALLASTS ARE NOT PERMITTED.
 2. THE PROPOSED SOLAR ARRAY RACKING DESIGN PREPARED BY OTHERS UTILIZES A TRACKER MOUNTING SYSTEM. THE PANEL LIP HEIGHT WILL VARY THROUGHOUT THE DAY.

1
10 SCALE: NTS
TYPICAL SOLAR PANEL RACKING

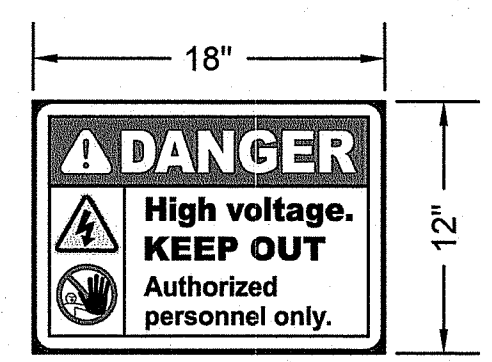


2
10 SCALE: NTS
TYPICAL GRAVEL ACCESS ROAD



- NOTES:**
1. THE TEMPORARY STAGING AREA SHALL BE ACCESSED ONLY THROUGH THE CONSTRUCTION ENTRANCE. ACCESS FROM THE TEMPORARY STAGING AREA DIRECTLY TO WOODVILLE ROAD IS NOT PERMITTED.
 2. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND GATES AS REQUIRED TO SECURE THE LAYDOWN AREA AT THE END OF EACH WORK DAY.

3
10 SCALE: NTS
TYPICAL TEMPORARY STAGING AREA DETAIL



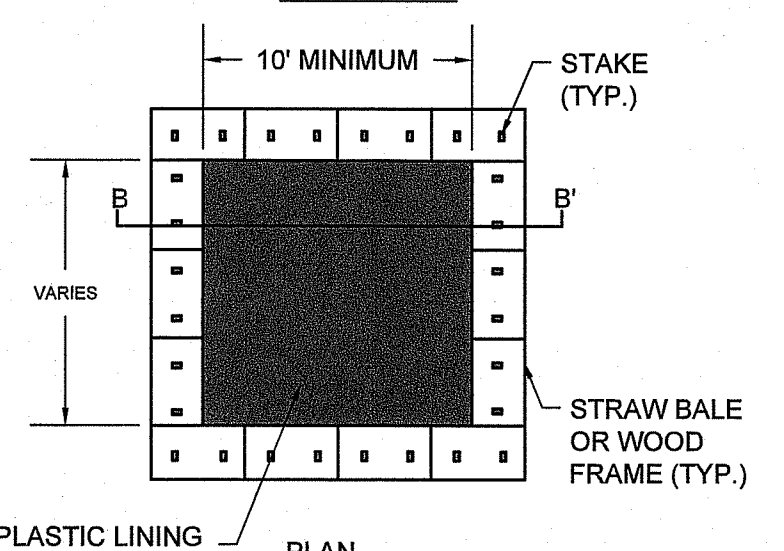
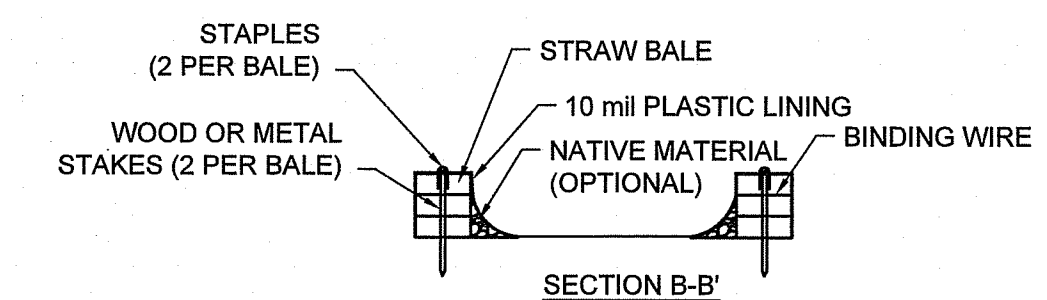
- NOTES:**
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
 2. SIGN SHALL COMPLY WITH ANSI Z535.
 3. DANGER SIGN TO BE SPACED EVERY 300 FEET ALONG FENCE LINE.

4
10 SCALE: NTS
DANGER SIGN



- NOTES:**
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
 2. SIGN SHALL COMPLY WITH ANSI Z535.
 3. NO TRESPASSING SIGN TO BE SPACED EVERY 100 FEET ALONG FENCE LINE.

5
10 SCALE: NTS
NO TRESPASSING SIGN



- NOTES:**
1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED BY THE CONTRACTOR. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE AREAS SUCH AS STORM DRAINS, OPEN DITCHES, OR WATER BODIES, INCLUDING WETLANDS.
 2. CONCRETE WASHOUT SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PROVIDE 12 INCHES OF FREEBOARD.
 3. PLASTIC LINING SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
 4. WASHOUT SHALL BE CLEANED OR REPLACED ONCE 75% FULL.

6
10 SCALE: NTS
TYPICAL CONCRETE WASHOUT

RI DEM FILE NO.
XX-XXXX

- NOTES:**
1. SIGN SHALL BE 12 INCHES WIDE BY 18 INCHES LONG AND MADE OF WEATHER RESISTANT MATERIAL.
 2. THE SIGN SHALL BE LOCATED IN A CONSPICUOUS LOCATION.
 3. SIGN BACKGROUND SHALL BE WHITE.
 4. SIGN LETTERING SHALL BE BLACK, AND AT LEAST 1/2 INCHES TALL.
 5. SIGN SHALL NOT BE ATTACHED TO A LIVE TREE.

7
10 SCALE: NTS
FRESHWATER WETLANDS ACT SIGN

Office of Water Resources
Environmental Management
MAY 3 2021

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 20-0258
DATED MAY 21 2021
SEE LETTER OF SAME DATE.
Nancy L. Freeman

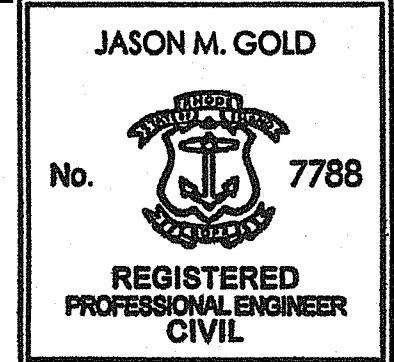
DATE: Apr 22, 2021 - 14:27PM
FILENAME: \A\5484-000 Standard Solar Inc. - Woodville Solar - Design and Permitting\04 - BRONKHES\04\Drawing\01 - WOODVILLE SOLAR RIDEM PD - DETAILS.dwg



404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

STANDARD SOLAR, INC.
1355 PICCARD DRIVE, SUITE 300
ROCKVILLE, MD 20850

WOODVILLE SOLAR
AP 9-A LOT 18-3
RICHMOND, RI 02832



2021.04.26
18:55:53
-04'00"

No.	REVISION	DATE	GJR	JMG	JMG
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	4/23/21	GJR	JMG	JMG
			DRAWN	DESIGN	CHK

DRAWN BY: GJR DESIGNED BY: JMG CHECKED BY: JMG

**PRELIMINARY DETERMINATION
DETAILS**
FOR PERMITTING ONLY

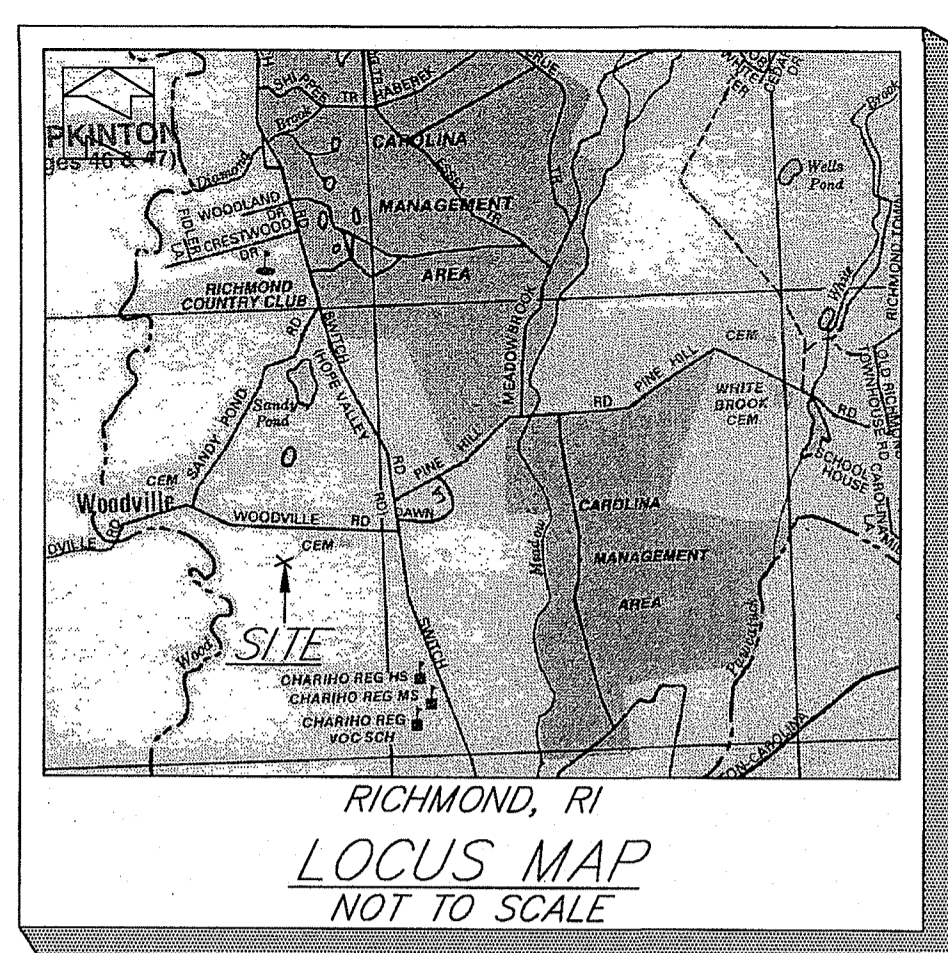
DRAWING NO:
D-2
PROJECT NO: 5484-000
DATE OF ISSUE: 1/5/2021
SHEET NO: 10 OF 10

REFERENCE PLANS:
 ADMINISTRATIVE SUBDIVISION PREPARED FOR WILLIAM E. & JUDITH S. JAMES & ROBERT E. & MARY J. JAMES ASSESSOR'S PLAT 9A, LOT 18-3 ASSESSOR'S PLAT 9B, LOT 4 WOODVILLE ROAD & SWITCH ROAD RICHMOND, RHODE ISLAND SCALE: 1" = 100' DATE: AUGUST 12, 2002 BY RICHARD A. GREENE & ASSOCIATES, INC.
 SURVEY OF TUCKAHOE FARMS FOR RHODE ISLAND AGRICULTURAL LAND PRESERVATION COMMISSION AP 9B LOT 1 & AP 10B LOT 8 SWITCH ROAD RICHMOND, RHODE ISLAND

- THIS PARCEL MAY BE SUBJECT TO THE FOLLOWING:
- RESERVATION OF BURIAL GROUND AS SET FORTH IN BOOK 19 AT PAGE 317.
 - EASEMENT AS SET FORTH IN BOOK 22 AT PAGE 155. (NOT PLOTTABLE)
 - EASEMENT AS SET FORTH IN BOOK 103 AT PAGE 755.
 - EASEMENT AS SET FORTH IN BOOK 103 AT PAGE 776.
 - EXHIBIT B TO OPTION AGREEMENT: MEMORANDUM OF OPTION AGREEMENT DATED NOVEMBER 7, 2016 AND RECORDED NOVEMBER 29, 2016 IN BOOK 308 AT PAGE 829.

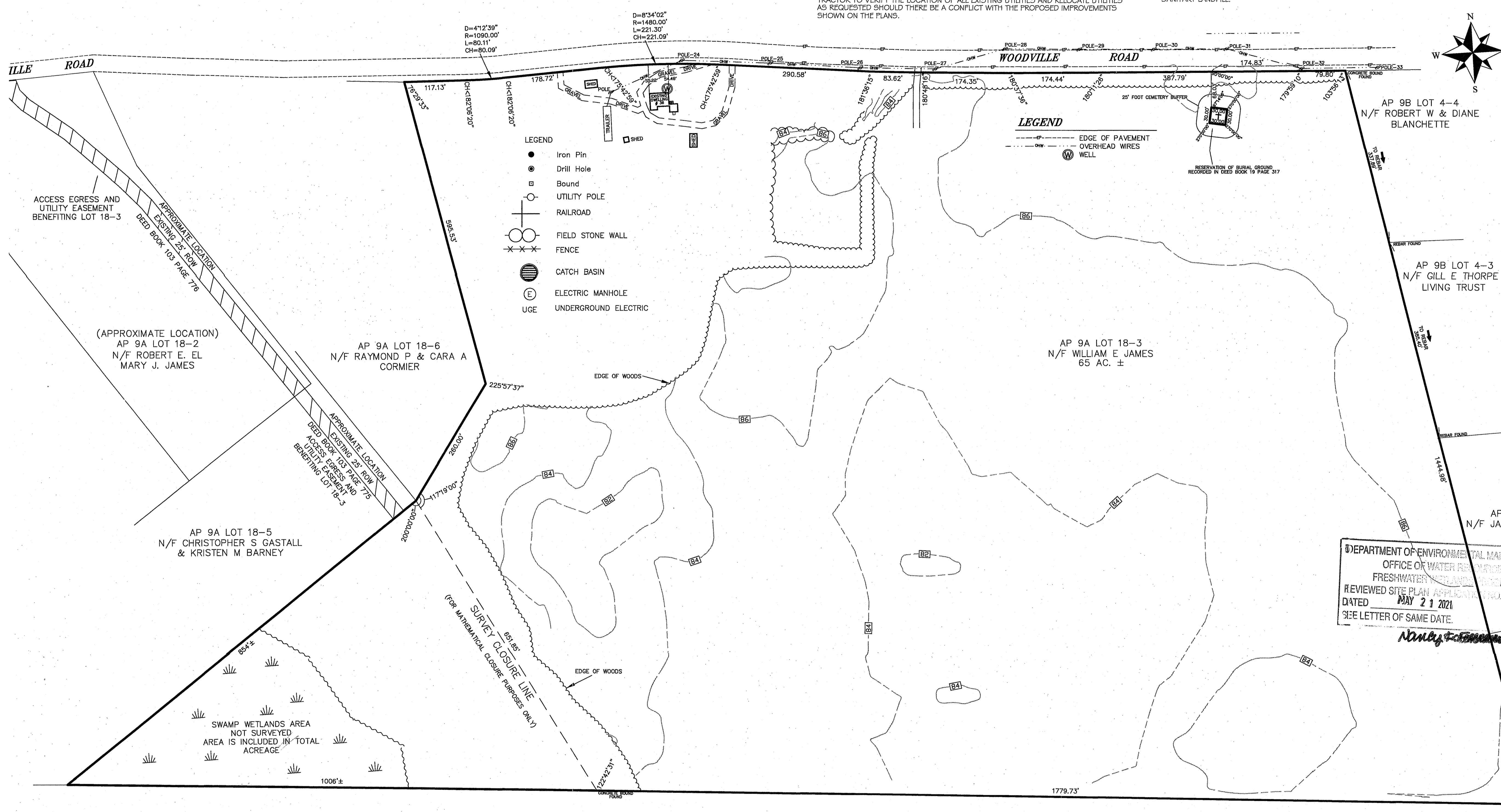
NOTES:
 1. PORTIONS OF THIS PARCEL MAY LIE WITHIN ZONE 'X' & ZONE 'A' FOUND ON FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 44009C0154H. ZONE 'X' = AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. ZONE 'A' = NO BASE FLOOD ELEVATIONS DETERMINED. MAP REVISED: 10/19/10
 2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO EXCAVATION AND SHALL NOTIFY LOCAL UTILITY COMPANIES BEFORE COMMENCEMENT OF WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RELOCATE UTILITIES AS REQUESTED SHOULD THERE BE A CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

- DATUM REFERENCED NAVD 88.
- HORIZONTAL & VERTICAL DATA ON THIS PLAN WERE OBTAINED BY FIELD SURVEY.
- WETLAND DELINEATION AND LOCATION NOT A PART OF THE SCOPE OF THIS SURVEY.
- THIS SURVEY IS PREPARED WITH REFERENCE TO A COMMITMENT FOR TITLE INSURANCE ISSUED BY CHICAGO TITLE INSURANCE COMPANY. COMMITMENT NUMBER: 6161937 EFFECTIVE DATE: JANUARY 4, 2017 @ 8:00 AM.
- THIS PROPERTY HAS DIRECT ACCESS TO WOODVILLE ROAD
- NO EVIDENCE WAS FOUND INDICATING CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
- NO EVIDENCE WAS FOUND INDICATING THE SITE'S USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.



ZONING: R-3
 AQUIFER OVERLAY DISTRICT
 LEGAL DESCRIPTION

That certain lot or parcel of land with all buildings and improvements thereon, located on the southerly line of Woodville Rd. in the Town of Richmond, County of Washington, State of Rhode Island and bounded and described as follows:
 Beginning at a point on the southerly line of Woodville Rd. at the northeast corner of the herein described parcel and the northwest corner of land now or formerly of Robert W. & Diane Blanchette;
 Thence: Running westerly along the southerly line of Woodville Rd. (79.80) feet;
 Thence: Turning an angle to the right of 179°59'10" and running westerly along the southerly line of Woodville Rd. (387.79) feet;
 Thence: Turning an angle to the right of 180°11'26" and running westerly along the southerly line of Woodville Rd. (174.44) feet;
 Thence: Turning an angle to the right of 180°37'36" and running westerly along the southerly line of Woodville Rd. (174.35) feet;
 Thence: Turning an angle to the right of 180°48'16" and running westerly along the southerly line of Woodville Rd. (83.62) feet;
 Thence: Turning an angle to the right of 181°36'15" and running westerly along the southerly line of Woodville Rd. (290.58) feet;
 Thence: Turning an angle to the right of 175°42'59" and running westerly along the arc of a curve to the left (221.30) feet, said curve having a delta angle of 8°34'02", a radius of (1,480.00) feet and a chord distance of (221.09) feet;
 Thence: Turning a chord angle to the right of 175°42'59" and running westerly along the southerly line of Woodville Rd. (178.72) feet;
 Thence: Turning a chord angle to the right of 182°06'20" and running westerly along the arc of a curve to the right (80.11) feet, said curve having a delta angle of 4°12'39", a radius of (1,090.00) feet and a chord distance of (80.09) feet;
 Thence: Turning a chord angle to the right of 182°06'20" and running westerly along the southerly line of Woodville Rd. (117.13) feet;
 Thence: Turning an angle to the right of 76°29'33" and running southerly (595.53) feet;
 Thence: Turning an angle to the right of 225°57'37" and running southwesterly (260.00) feet to a survey closure line;
 Thence: Turning an angle to the right of 117°19'00" and running southeasterly along said survey closure line (651.85) feet;
 Thence: Turning an angle to the right of 122°42'31" and running easterly (1779.73) feet;
 Thence: Turning an angle to the right of 74°43'46" and running northwesterly (1444.98) feet to the southerly line of Woodville Rd. and to the point and place of beginning and forming an angle to the right of 103°56'13" with the first course and containing (65) acres of land more or less.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER RESOURCES DIVISION
 REVIEWED SITE PLAN APPLICATION NO: 20-0258
 DATED MAY 21 2021
 SEE LETTER OF SAME DATE.

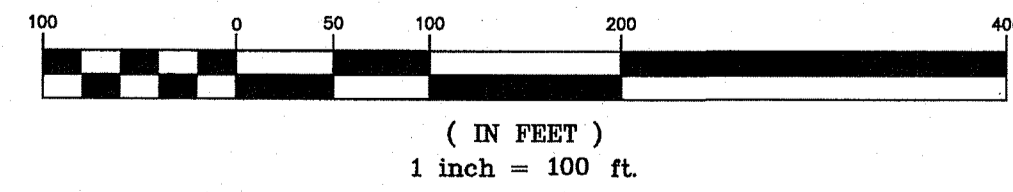
Office of Water Resources
 Environmental Management
 MAY - 3 2021

RICHMOND, RI
 ALTA/NSPS LAND TITLE SURVEY
 PREPARED FOR
 FREEPOINT SOLAR LLC.
 SURVEY OF
 AP 9A LOT 18-3
 36 WOODVILLE ROAD
 ZONE R-3
 APRIL 17, 2018
 BY



450 GEO. WASH. HWY. SMITHFIELD, RI
 (401) 231-0900

GRAPHIC SCALE



NO.	DATE	DESCRIPTION	BY
1.	11/19/18	ADD RECORD STAMP	MCL
2.	3/8/19	ADD ZONING APPROVAL BOX	MCL

APPROVED BY THE ZONING BOARD OF REVIEW
 CHAIRPERSON/SECRETARY DATE

TOWN OF RICHMOND, RHODE ISLAND
 RECEIVED FOR RECORD
 DATE: _____
 AT _____ M.
 MAP# _____ SLIDE# _____
 SARAH S. RAPOSE
 TOWN CLERK

AP 9B LOT 1
 N/F RDI LLC

TO FREEPOINT SOLAR LLC., CHICAGO TITLE INSURANCE COMPANY ITS SUCCESSORS AND/OR ASSIGNS, AS THEIR INTERESTS MAY APPEAR THAT: THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1,2,3,4,5,8,11,13 & 16 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 3/20/18 THRU 4/11/18

SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION PROFESSIONAL LAND SURVEYORS EFFECTIVE: JANUARY 2016 PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THIS PLAN IS AS FOLLOWS:
 NSPS LAND TITLE SURVEY
 CONTENT BOUNDARY SURVEY- MEASUREMENT SPECIFICATION - 1
 1/4"=1" SURVEY ACCURACY T-3
 Stephen T. Long

STEPHEN T. LONG
 No. 1530
 PROFESSIONAL
 LAND SURVEYOR