

BWC WADES STREAM, LLC

2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT

190 RIDGE ROAD

WORTHINGTON, MA 01098

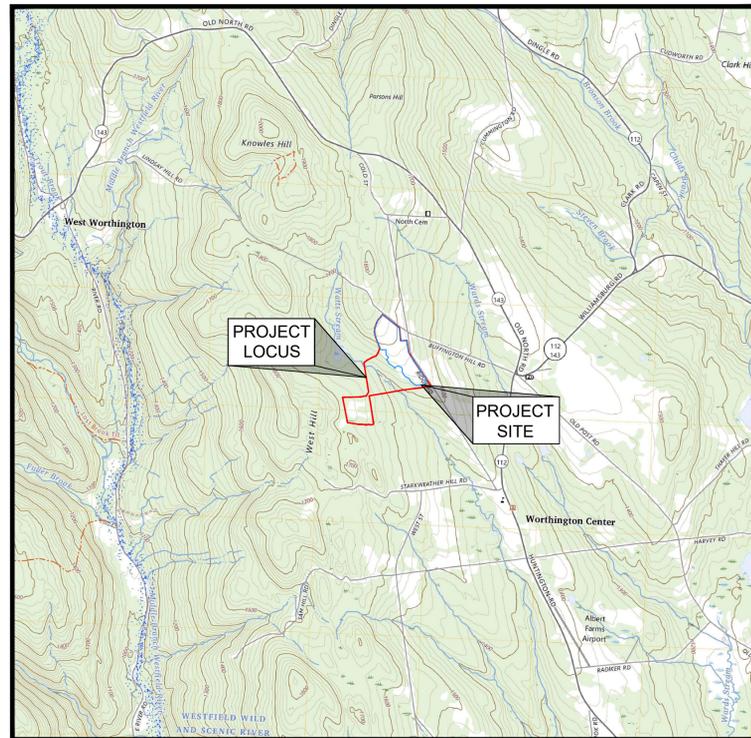
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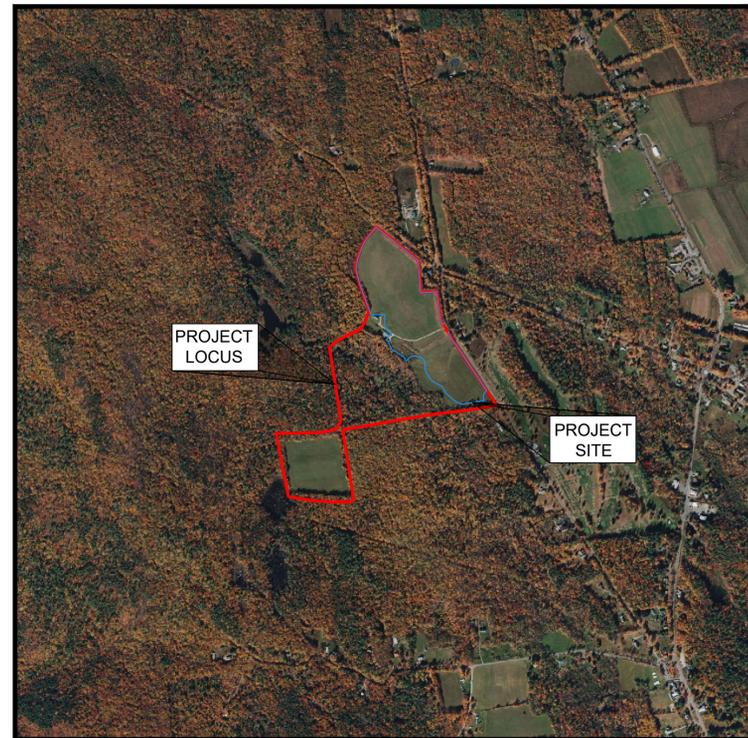
ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

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LOCUS MAP
1"=2500'



AERIAL IMAGE
1"=1000'

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MATERIAL SPECIFICATIONS AND PLACEMENT REQUIREMENTS:

1.1 ANGULAR ROCK FILL

ANGULAR ROCK FILL SHALL BE USED FOR THE CONSTRUCTION ENTRANCE AS SHOWN ON THE DRAWINGS, AND SHALL MEET THE GRADATION REQUIREMENTS LISTED BELOW.

U.S. STANDARD SIEVE	PERCENT PASSING
3 INCH	100
2 INCH	80 - 100
1 INCH	50 - 80
NO. 200	0 - 10

PRIOR TO USE, THE ANGULAR ROCK FILL SHALL BE TESTED FOR APPROVAL AS DESCRIBED IN SECTION 2.0 AND SHALL BE PLACED AS DESCRIBED IN SECTION 3.0.

1.2 DENSE GRADED CRUSHED STONE

DENSE GRADED CRUSHED STONE SHALL BE USED TO CONSTRUCT THE CRUSHED STONE ACCESS ROAD, AND SHALL MEET THE REQUIREMENTS OF A MATERIAL SUCH AS MASSDOT SPECIFICATION M2.01.7 CRUSHED STONE, OR APPROVED EQUAL. THIS MATERIAL SHALL BE PLACED AT A MINIMUM THICKNESS OF 6-INCHES AND SHALL BE IN DIRECT CONTACT WITH THE BALLAST BLOCKS. THIS MATERIAL SHALL CONSIST OF CLEAN, HARD, DURABLE CRUSHED ROCK OR CRUSHED GRAVEL STONE, FREE FROM LOAM AND CLAY AND DELETERIOUS MATERIAL AND NO MORE THAN 10 PERCENT PASSING THE U.S. NO. 200 SIEVE. THIS MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING
2-INCH	100
1.5-INCH	70-100
¾-INCH	50-85
NO. 4	30-55
NO. 50	8-24
NO. 200	3-10

PRIOR TO USE, THE DENSE GRADED CRUSHED STONE SHALL BE TESTED FOR APPROVAL AS DESCRIBED BELOW IN SECTION 2.0 AND SHALL BE PLACED AS DESCRIBED BELOW IN SECTION 3.0.

1.3 GRANULAR FILL MATERIAL

CLEAN GRANULAR FILL MAY BE USED FOR FILL OR GRADING MATERIAL. GRANULAR FILL SHALL CONSIST OF MASSDOT MATERIAL M1.03.0, GRAVEL BORROW, TYPE C, OR APPROVED EQUAL, AND MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING
2-INCH	100
¾-INCH	50-85
NO. 4	40-75
NO. 50	8-28
NO. 200	0-10

PRIOR TO USE, THE GRANULAR FILL SHALL BE TESTED FOR APPROVAL AS DESCRIBED IN SECTION 2.0 AND SHALL BE PLACED AS DESCRIBED IN SECTION 3.0.

1.4 LOAM BORROW MATERIAL

THE LOAM BORROW SHALL CONFORM TO MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, DIVISION III - MATERIALS SPECIFICATIONS, SECTION M1.05.0 "LOAM BORROW". THE LOAM SHALL CONTAIN NOT LESS THAN 4% NOR MORE THAN 20% ORGANIC MATTER.

1.5 GEOTEXTILE FABRIC

FIBERS USED IN MANUFACTURING OF THE GEOTEXTILES SHALL CONSIST OF POLYPROPYLENE, POLYVINYL CHLORIDE, NYLON, POLYOLEFINS, POLYAMIDES, OR POLYESTER. THE FIBERS SHALL BE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING SELVAGES. THE GEOTEXTILE SHALL CONTAIN STABILIZERS AND/OR INHIBITORS TO MAKE THE FIBERS RESISTANT TO DEGRADATION RESULTING FROM EXPOSURE TO SUNLIGHT, WATER, OR HEAT. THE GEOTEXTILE SHALL BE FREE OF DEFECTS OR FLAWS WHICH WILL AFFECT ITS PHYSICAL PROPERTIES. PROVIDE A GEOTEXTILE MEETING THE PROPERTIES LISTED IN TABLE 1:

TABLE 1 REQUIRED PHYSICAL PROPERTIES OF GEOTEXTILE FABRIC			
PROPERTY	TEST METHOD	NON-WOVEN	WOVEN
MASS PER UNIT AREA	D 5261	6	N/A
GRAB TENSILE STRENGTH (LBS)	D 4632	170	N/A
TENSILE STRENGTH (LBS/FT)	D 4595	N/A	7200
ELONGATION (%)	D 4632	50	N/A
PUNCTURE STRENGTH (LBS)	D 6241	435	N/A
TRAPEZOID TEAR (LBS)	D 4533	70	N/A
PERMITTIVITY (SEC ⁻¹)	D 4491	1.50	0.90
WATER FLOW RATE (GPM/FT ²)	D 4491	110	65
ULTRAVIOLET STABILITY (% FOR MIN 500 HRS)	D 4355	70	80
APPARENT OPENING SIZE (AOS) (STANDARD SIEVE)	D 4751	70	20

TABLE NOTES:

- ALL NUMERICAL VALUES EXCEPT AOS AND ULTRAVIOLET STABILITY REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV), IN THE WEAKER PRINCIPAL DIRECTION.
- AOS VALUE IS A MAXIMUM AVERAGE ROLL VALUE OR MAXARV.
- ULTRAVIOLET STABILITY IS MEASURED AS A MINIMUM AVERAGE PERCENTAGE.
- SEE DETAILS ON DRAWING C-501 FOR LOCATIONS OF WOVEN AND NON-WOVEN GEOTEXTILES.

2.0 BORROW SOURCE TESTING REQUIREMENTS

PRIOR TO USE, BORROW SOURCE TESTING, INCLUDING GEOTECHNICAL CHARACTERIZATION REQUIREMENTS, SHALL BE CONDUCTED ON ALL SOIL MATERIALS PROPOSED FOR CONSTRUCTION AND SUBMITTED TO THE ENGINEER TO ASSESS CONFORMANCE TO MATERIAL SPECIFICATIONS.

3.0 MATERIAL PLACEMENT AND FIELD QUALITY CONTROL REQUIREMENTS

- FILL MATERIAL SHALL NOT BE PLACED ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
- SURFACES ON WHICH THE GEOTEXTILE WILL BE PLACED SHALL BE PREPARED TO A RELATIVELY SMOOTH SURFACE CONDITION. SURFACES SHALL BE FREE FROM OBSTRUCTION, DEBRIS, DEPRESSIONS, EROSION FEATURE, OR VEGETATION. ANY IRREGULARITIES SHALL BE REMOVED SO AS TO ENSURE CONTINUOUS, INTIMATE CONTACT OF THE GEOTEXTILE WITH THE SURFACE. ANY LOOSE MATERIAL, OR SOFT OR LOW DENSITY POCKETS OF MATERIAL, SHALL BE REMOVED, FILLED WITH SUITABLE SUBGRADE FILL, AND COMPACTED. EROSION FEATURES SUCH AS RILLS AND GULLIES MUST BE GRADED OUT OF THE SURFACE BEFORE GEOTEXTILE PLACEMENT.
- AT THE TIME OF INSTALLATION, FABRIC SHALL BE REJECTED IF IT HAS DEFECTS, RIPS, HOLES, FLAWS, DEGRADATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORT OR STORAGE.
- FABRIC SHALL LAY SMOOTH AND BE FREE OF TENSION, STRESS, FOLDS, WRINKLES, OR CREASES.
- CRUSHED STONE FOR ACCESS ROADS SHALL BE PLACED IN MAXIMUM 6-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY (MODIFIED PROCTOR (ASTM D 1557)).
- LOAM BORROW FOR STORMWATER INFILTRATION BEST MANAGEMENT PRACTICES (BMPS) SHALL BE PLACED IN MAXIMUM 6-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 92% OF MAXIMUM DRY DENSITY (MODIFIED PROCTOR (ASTM D 1557)).

CONCEPTUAL CONSTRUCTION SEQUENCE:

- ESTABLISHMENT OF LIMITS OF WORK;
- PLACEMENT OF EROSION CONTROLS;
- MINOR CLEARING AND GRUBBING AND SITE GRADING;
- CONSTRUCTION OF ACCESS ROAD;
- CONSTRUCTION OF THE SOLAR ARRAY AND APPURTENANT EQUIPMENT;
- RESTORATION OF DISTURBED AREAS;
- CONSTRUCTION OF STORMWATER INFILTRATION BMPS;
- ERECTION OF THE PERIMETER FENCE; AND
- FINAL STABILIZATION OF DISTURBED AREAS.

EROSION AND SEDIMENTATION CONTROL PLAN:

THIS PLAN HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR CONTROLLING SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROPOSED PROJECT.

THIS PLAN IS BASED ON STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, 2003.

GENERAL EROSION AND SEDIMENTATION CONSTRUCTION DETAIL NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO SCHEDULE EARTHWORK OPERATIONS SUCH THAT THE AREA OF EXPOSED AND DISTURBED SOIL IS MINIMIZED. CONSTRUCTION SHALL BE PHASED TO MINIMIZE THE AREA OF DISTURBED SOIL THAT IS EXPOSED AT ANY ONE TIME. UPGRADIENT STORM WATER DIVERSION AND DISPERSION MEASURES SHALL BE INSTALLED WHERE APPROPRIATE. ALL CUT AND FILL SLOPES SHALL BE STABILIZED UPON COMPLETION. THE FOLLOWING MEASURES WILL BE UNDERTAKEN TO PROVIDE MAXIMUM PROTECTION TO THE SOIL, WATER, AND ABUTTING LANDS:

PRIOR TO GRUBBING OR ANY EARTH MOVING OPERATION, SEDIMENT BARRIERS, OR OTHER APPROPRIATE PERIMETER CONTROL BMPS SHALL BE INSTALLED ACROSS THE SLOPE ON THE CONTOUR AT THE DOWNHILL LIMIT OF THE WORK AS PROTECTION AGAINST CONSTRUCTION RELATED EROSION. INSTALL ALL NECESSARY STORMWATER DIVERSIONS AND DISPERSION MEASURES.

- PERMANENT SOIL STABILIZATION MEASURES FOR ALL SLOPES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN FOURTEEN CALENDAR DAYS AFTER FINAL GRADING HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE OR PRACTICAL TO PERMANENTLY STABILIZE DISTURBED LAND, TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS (INCLUDING STOCKPILES) WITHIN FOURTEEN CALENDAR DAYS OF EXPOSURE OF SOIL OR FORMATION OF PILES, UNLESS THESE AREAS ARE TO BE SUBSEQUENTLY SURFACED WITH PERMANENT STRUCTURES. ALL DISTURBED AREAS SHALL BE MULCHED FOR EROSION CONTROL UPON COMPLETION OF ROUGH GRADING.
- ANY EXPOSED SLOPES 3:1 OR GREATER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS (NORTH AMERICAN GREEN C125BN OR APPROVED EQUAL) TO PREVENT EROSION DURING CONSTRUCTION AND TO FACILITATE REVEGETATION AFTER TOPSOILING AND SEEDING.
- EXISTING TOPSOIL SHALL BE SAVED, STOCKPILED, AND REUSED AS MUCH AS POSSIBLE ON SITE. SEDIMENT BARRIER SHALL BE INSTALLED AT THE BASE OF STOCKPILES AT THE DOWNHILL LIMIT TO PROTECT AGAINST EROSION. STOCKPILES ANTICIPATED TO REMAIN FOR MORE THAN 14 CALENDAR DAYS SHALL BE STABILIZED BY SEEDING AND MULCHING UPON FORMATION OF THE PILES. UPGRADIENT OF THE STOCKPILES, STABILIZED DITCHES AND/OR BERMS SHALL BE CONSTRUCTED TO DIVERT STORMWATER RUNOFF AWAY FROM THE PILES.
- INTERCEPTED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SEDIMENT BARRIER, OR AS DIRECTED IN THE DRAWING DETAILS FOR OTHER BMPS, AND SHALL BE DEPOSITED IN AN AREA THAT SHALL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED. ALL DAMAGED EROSION CONTROL DEVICES SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY. DEVICES NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION SHALL ALSO BE REPAIRED AND/OR REPLACED AS REQUIRED.
- ADDITIONAL EROSION CONTROL METHODS SHALL BE IMPLEMENTED IF CONSTRUCTION OCCURS BETWEEN NOVEMBER 1ST AND APRIL 15TH. ALL DISTURBED AREAS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE. PRIOR TO FREEZING, ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS APPROPRIATE. INSPECTION OF THESE EROSION CONTROL ITEMS SHALL BE FREQUENT, WITH PARTICULAR ATTENTION PAID TO WEATHER PREDICTIONS TO ENSURE THAT THESE MEASURES ARE PROPERLY IN PLACE TO HANDLE LARGE QUANTITIES OF RUNOFF RESULTING FROM HEAVY RAINS OR EXCESSIVE THAWS.
- GENERAL EROSION AND SEDIMENTATION CONTROL ACTIONS SHALL BE EMPLOYED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - MARK SOIL DISTURBANCE LIMITS
 - INSTALL SEDIMENT BARRIERS BEFORE DISTURBING ANY SOILS
 - DIVERT AND DISPERSE STORM WATER RUNOFF TO UNDISTURBED AREAS WHEREVER POSSIBLE
 - MULCH DISTURBED AREAS
 - PROTECT STEEP SLOPES
 - INSPECT AND REPAIR EROSION CONTROLS AND SEDIMENT BARRIERS

DUST CONTROL:

- CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE THE AREA OF DISTURBED SOIL THAT IS EXPOSED AT ONE TIME.
- DUST CONTROL SHALL BE USED ON CONSTRUCTION ROUTES AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BLOWING.
- MAINTAIN DUST CONTROL MEASURES PROPERLY THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- DUST CONTROL METHODS SHALL BE APPROVED BY THE ENGINEER AND MAY INCLUDE VEGETATIVE COVER, MULCH (INCLUDING GRAVEL MULCH), SPRINKLING, STONE, AND BARRIERS.
- VEGETATIVE COVER - FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
- MULCH (INCLUDING GRAVEL MULCH) - WHEN PROPERLY APPLIED, MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST. SEE MANUFACTURER'S RECOMMENDATIONS OR THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, 2003 FOR APPLICATION RATES.
- SPRINKLING - EXPOSED SOILS MAY BE SPRINKLED UNTIL THE SURFACE IS WET. SPRINKLING IS ESPECIALLY EFFECTIVE FOR DUST CONTROL ON HAUL ROADS AND OTHER TRAFFIC ROUTES.
- STONE - USED TO STABILIZE CONSTRUCTION ROADS; CAN ALSO BE EFFECTIVE FOR DUST CONTROL.
- BARRIERS - A BOARD FENCE, WIND FENCE, SEDIMENT FENCE, OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AND BLOWING SOIL. ALL OF THESE FENCES ARE NORMALLY CONSTRUCTED OF WOOD AND THEY PREVENT EROSION BY OBSTRUCTING THE WIND NEAR THE GROUND AND PREVENTING THE SOIL FROM BLOWING OFFSITE.

MONITORING PROGRAM:

- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.25 INCHES OR GREATER. DAILY RAINFALL SHALL BE MONITORED AND RECORDED BY THE CONTRACTOR. ALL STRUCTURES DAMAGED BY CONSTRUCTION EQUIPMENT, VANDALS, OR THE ELEMENTS SHALL BE REPAIRED OR REPLACED IMMEDIATELY, PRIOR TO CONTINUING THE CONSTRUCTION.
- FOLLOWING THE FINAL SEEDING, THE SITE SHALL BE INSPECTED IN ACCORDANCE WITH THE SCHEDULE OUTLINED IN #1 ABOVE. TO ENSURE THAT THE VEGETATION HAS BEEN ESTABLISHED (90% COVER ACHIEVED), IN THE EVENT OF ANY UNSATISFACTORY GROWTH, RESEEDING WILL BE CARRIED OUT, WITH FOLLOW-UP INSPECTION.
- AFTER THE CONSTRUCTION INSPECTOR HAS DETERMINED THAT THE PROJECT AREA HAS BEEN PERMANENTLY STABILIZED (70% COVER HAS BEEN ACHIEVED OR NON-VEGETATED MEASURES HAVE BEEN IMPLEMENTED), THE CONTRACTOR SHALL REMOVE ALL SEDIMENT BARRIERS, TEMPORARY SEDIMENTATION CONTROL RISERS AND ANY OTHER TEMPORARY EROSION CONTROL MEASURES.

SEEDING AND REVEGETATION PLAN:

IMMEDIATELY FOLLOWING THE COMPLETION OF TREE CLEARING, ALL DISTURBED AREAS SHALL BE TREATED AS STATED BELOW IN ORDER TO MINIMIZE CONSTRUCTION-PERIOD EROSION.

APPLY SEED/TACKIFIER MIX ACCORDING TO THE FOLLOWING SPECIFICATIONS:

- SEED: ERNST SEEDS QUICK EROSION CONTROL COVER MIX CONSISTING OF (% BY WEIGHT):
 - 50% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)
 - 50% LOLIUM PERENNE, 'BIGLEAGUE' (PERENNIAL RYEGRASS, 'BIGLEAGUE')

- SEEDING RATE: 50 LBS PER ACRE
- TACKIFIER: GEOPERM BONDED FIBER MATRIX (OR APPROVED EQUAL) APPLIED PER MANUFACTURER SPECIFICATIONS.

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED WITHIN THE FENCED AREA SHALL BE TREATED AS STATED BELOW. THESE AREAS WILL BE CLOSELY MONITORED BY THE CONTRACTOR UNTIL SUCH TIME AS A SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED. SATISFACTORY GROWTH SHALL MEAN A MINIMUM OF 90% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

- TOPSOIL WILL BE SPREAD OVER ALL DISTURBED AREAS TO BE REVEGETATED AND SHALL BE GRADED TO A UNIFORM DEPTH OF FOUR (4) TO SIX (6) INCHES.
- APPLY SEED AS DIRECTED BY THE OWNER AND FARMER OF THE LAND TO MAINTAIN HAY PRODUCTION AND RESTORE SITE TO PRE-EXISTING CONDITIONS TO THE MAXIMUM EXTENT PRACTICABLE.
- SEEDING METHODS MAY BE DRILL SEEDINGS, BROADCASTS AND ROLLED, CULTIPACKED, OR TRACKED WITH A SMALL TRACK PIECE OF CONSTRUCTION EQUIPMENT, OR HYDRO-SEEDING, WITH SUBSEQUENT TRACKING.
- WATERING MAY BE REQUIRED DURING DRY PERIODS, THE CONTRACTOR MUST CONSULT SEED MANUFACTURER'S INSTRUCTIONS.
- INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEED IMMEDIATELY. CONDUCT A FOLLOW-UP SURVEY AFTER ONE YEAR AND RESEED WHERE NECESSARY.
- ALL SEDIMENT CONTROL STRUCTURES LOCATED DOWN GRADIENT OF SOILS STABILIZED BY VEGETATIVE MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 70% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED OUTSIDE THE FENCED AREA SHALL BE TREATED AS STATED BELOW. THESE AREAS WILL BE CLOSELY MONITORED BY THE CONTRACTOR UNTIL SUCH TIME AS A SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED. SATISFACTORY GROWTH SHALL MEAN A MINIMUM OF 90% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

- APPLY SEED AS DIRECTED BELOW:

(APRIL 1ST THROUGH OCTOBER 1ST)

- SEED DISTURBED AREAS AT THE RATE OF 30 LBS PER ACRE OF ERNST SEEDS NORTHEAST SOLAR POLLINATOR 4' MIX CONSISTING OF (% BY WEIGHT):
 - 35% BOUTELOUA CURTIPENDULA, BUTTE (SIDEOATS GRAMA, BUTTE)
 - 35% SCHIZACHYRIUM SCOPARIUM, 'CAMPER' (LITTLE BLUESTEM, 'CAMPER')
 - 10% PANICUM SPHAERONCARPON (ROUNDSEED PANICGRASS)
 - 4% ASCLEPIAS TUBEROSA (BUTTERFLY MILKWEED)
 - 4% CHAMAECRISTA FASCICULATA, PA ECOTYPE (PARTRIDGE PEA, PA ECOTYPE)
 - 4% COREOPSIS LANCEOLATA (LANCELEAF COREOPSIS)
 - 4% RUDBECKIA HIRTA (BLACKEYED SUSAN)
 - 0.9% PYCNANTHEMUM TENUIFOLIUM (NARROWLEAF MOUNTAINMINT)
 - 0.7% ASTER OBLONGIFOLIUS, (AROMATIC ASTER, PA ECOTYPE)
 - 0.5% ASTER PRENANTHOIDES, PA ECOTYPE (ZIGZAG ASTER, PA ECOTYPE)
 - 0.5% PENSTEMON DIGITALIS (TALL WHITE BEARDTONGUE)
 - 0.5% TRADESCANTIA OHIENSIS (OHIO SPIDERWORT, PA ECOTYPE)
 - 0.5% ZIZIA AUREA (GOLDEN ALEXANDERS)
 - 0.3% OENOTHERA FRUTICOSA VAR. FRUTICOSA (SUNDROPS)
 - 0.1% SOLIDAGO NEMORALIS, PA ECOTYPE (GRAY GOLDENROD, PA ECOTYPE)
- APPLY WOOD FIBER MULCH AT A RATE OF 2,000 LBS PER ACRE FOR MAXIMUM MOISTURE RETENTION.
- SEEDING SHALL HAVE A MINIMUM GERMINATION PERCENTAGE OF 85%.

(NOVEMBER 1ST THROUGH DECEMBER 15TH)

- SEED DISTURBED AREAS AT THE RATE OF 3 LBS PER 1,000 SQ. FT. OF WINTER RYE
- APPLY HAY MULCH AT THE RATE OF 100 LBS PER 1,000 SQ. FT.

(AFTER DECEMBER 15TH)

- DO NOT SEED.
 - APPLY HAY MULCH AT THE RATE OF 100 LBS PER 1,000 SQ. FT.
- SEEDING METHODS MAY BE DRILL SEEDINGS, BROADCASTS AND ROLLED, CULTIPACKED, OR TRACKED WITH A SMALL TRACK PIECE OF CONSTRUCTION EQUIPMENT, OR HYDRO-SEEDING, WITH SUBSEQUENT TRACKING.
 - WATERING MAY BE REQUIRED DURING DRY PERIODS CONSULT SEED MANUFACTURER'S INSTRUCTIONS.
 - INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEED IMMEDIATELY. CONDUCT A FOLLOW-UP SURVEY AFTER ONE YEAR AND RESEED WHERE NECESSARY.
 - ALL SEDIMENT CONTROL STRUCTURES LOCATED DOWN GRADIENT OF SOILS STABILIZED BY VEGETATIVE MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 70% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

AGRIVOLTAICS SPECIFICS:

- REMOVE TOPSOIL IN AREAS OF PROPOSED GRADING TO ACHIEVE REQUIRED RACKING SYSTEM SLOPES. STOCKPILE TOPSOIL SEPERATELY TO AVOID MIXING WITH OTHER SOILS AND INVERTING SOIL LAYERS. LOAM AND SEED DISTURBED AREAS WITH TEMPORARY SEEDING AND INSTALL INTERMEDIATE EROSION CONTROL MEASURES PARALLEL TO THE SLOPES IMMEDIATELY FOLLOWING COMPLETION OF GRADING.
- TOPSOIL SHALL NOT BE MIXED WITH SUBGRADE MATERIALS. TOPSOIL SHALL NOT BE BURIED. NO TOPSOIL SHALL LEAVE THE SITE. CONTRACTOR SHALL EMPLOY BEST MANAGEMENT PRACTICES TO ENSURE NO INVERSION OF TOPSOIL AND PROVIDE DECOMPACTION FOR FUTURE SOIL PRESERVATION.
- APPLY NPK FERTILIZER AND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT MANUFACTURER'S RECOMMENDED RATES. FINE GRADE, LOAM DISTURBED AREAS AS NECESSARY AND SEED SITE FOLLOWING INSTALLATION OF PANELS. DISTURBED AREAS SHALL BE TREATED WITH SUFFICIENT TOPSOIL/LOAM TO PROMOTE VEGETATION GROWTH FOR STABILIZATION IN ACCORDANCE WITH THE NOTES IN THIS PLAN. DISTURBED AREAS SHALL BE RAKED AND SURFACE STONES LARGER THAN 6" SHALL BE REMOVED PRIOR TO PLACEMENT OF SEED.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED SHALL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - INTER-ROW AREAS SHALL BE DECOMPACTED TO A DEPTH OF 12", REMOVING STONES GREATER THAN 3" AND WOOD DEBRIS. ENSURE PROTECTIONS OF BURIED CONDUIT DURING DECOMPACTION.
 - ANY TOPSOIL TO BE PLACED FOR REVEGETATION MEASURES (WHETHER SCREENED ON-SITE OR IMPORTED) SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL BE PLACED TO A DEPTH OF FOUR (4) INCHES ON ALL LOAM AND SEED AREAS OR AS SPECIFIED ON THE DRAWINGS.
 - APPLY FERTILIZER AND/OR LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT MANUFACTURER'S RECOMMENDED RATES.
 - THE DESIGN MIXES FOR SEEDING SHALL BE IN ACCORDANCE WITH THE SEED MIX TABLES AS SHOWN IN THIS PLAN. THE SEED MIX SHALL BE INOCULATED WITHIN TWENTY-FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY. (ALTERNATIVE SEED MIXES SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION).



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DATE	REVISION	ISSUE / REVISION DESCRIPTION
02/03/2008	3	RESPONSE TO COMMENTS
01/05/2008	2	RESPONSE TO COMMENTS
10/21/2005	1	REVISED PER TOWN OF WORTHINGTON PLANNING BOARD COMMENTS
09/23/2005	0	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

PROJECT: **2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT**
190 RIDGE ROAD
WORTHINGTON, MA 01098
CLIENT: **BWC WADES STREAM, LLC**
TITLE: **CONSTRUCTION, EROSION, AND SEDIMENTATION CONTROL NOTES**



DESIGNED BY: OAC	DRAWN BY: MRB
CHECKED BY: APV	SCALE: AS SHOWN
PROJECT NUMBER: US-EI-365230438	DRAWING NUMBER: G-001
SHEET NUMBER: 1 OF 11	

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

REVISION	DATE	ISSUE / REVISION DESCRIPTION
3	02/03/2026	RESPONSE TO COMMENTS
2	01/05/2026	RESPONSE TO COMMENTS
1	10/12/2025	REVISED PER TOWN OF WORTHINGTON PLANNING BOARD COMMENTS
0	09/23/2025	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

PROJECT:
 2.0 MW AC GROUND-MOUNT SOLAR PV
 DEVELOPMENT
 190 RIDGE ROAD
 WORTHINGTON, MA 01098

TITLE:
 EXISTING CONDITIONS

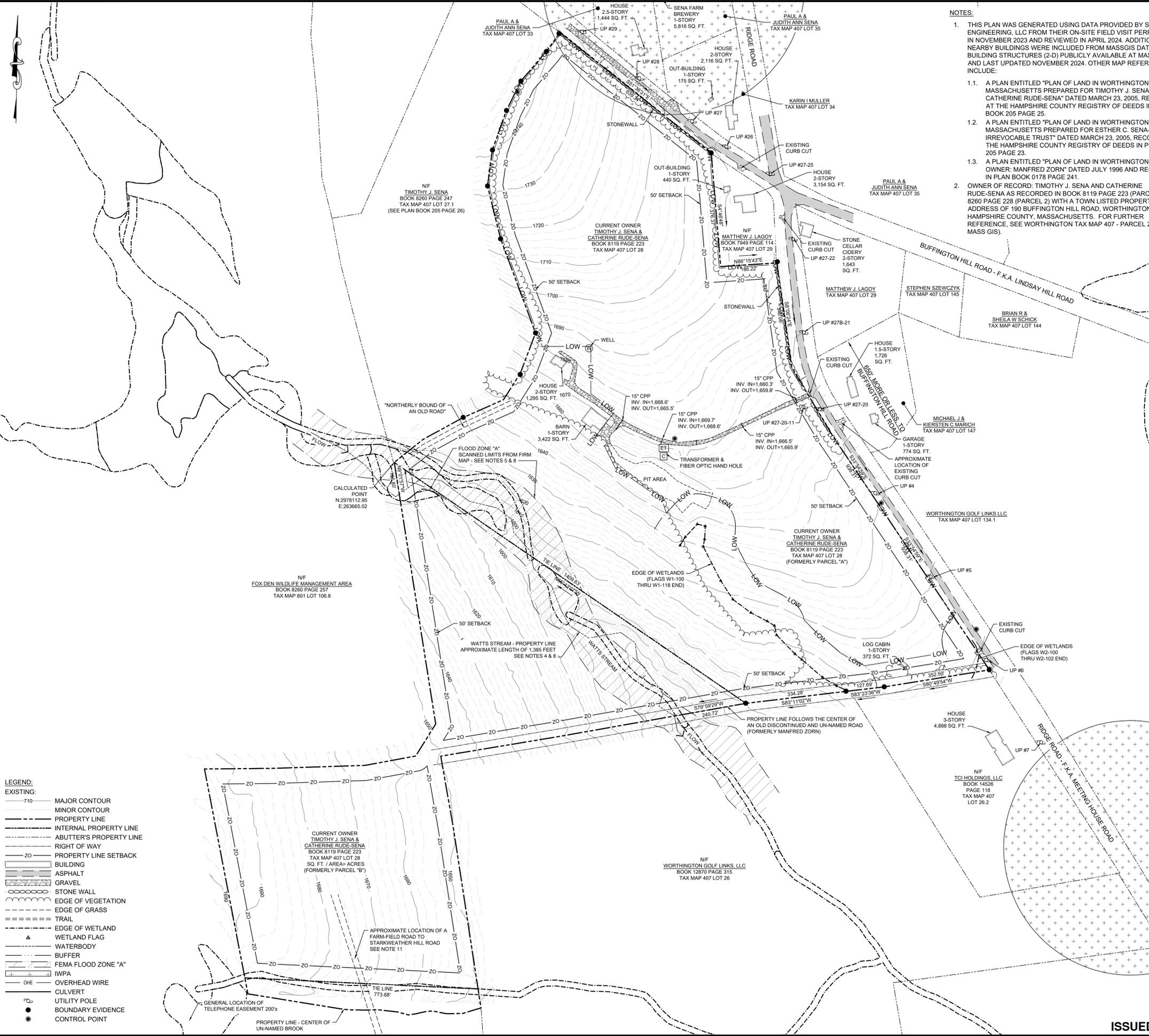
CLIENT:
 BWC WADES
 STREAM, LLC



DESIGNED BY: OAC
CHECKED BY: APV
PROJECT NUMBER: US-EI-365230438
DRAWING NUMBER: V-101
SHEET NUMBER: 2 OF 11

NOTES:

- THIS PLAN WAS GENERATED USING DATA PROVIDED BY SGC ENGINEERING, LLC FROM THEIR ON-SITE FIELD VISIT PERFORMED IN NOVEMBER 2023 AND REVIEWED IN APRIL 2024. ADDITIONAL NEARBY BUILDINGS WERE INCLUDED FROM MASSGIS DATA: BUILDING STRUCTURES (2-D) PUBLICLY AVAILABLE AT MASS.GOV AND LAST UPDATED NOVEMBER 2024. OTHER MAP REFERENCES INCLUDE:
 - A PLAN ENTITLED "PLAN OF LAND IN WORTHINGTON, MASSACHUSETTS PREPARED FOR TIMOTHY J. SENA & CATHERINE RUDE-SENA" DATED MARCH 23, 2005, RECORDED AT THE HAMPSHIRE COUNTY REGISTRY OF DEEDS IN PLAN BOOK 205 PAGE 25.
 - A PLAN ENTITLED "PLAN OF LAND IN WORTHINGTON, MASSACHUSETTS PREPARED FOR ESTHER C. SENA-SANDERS IRREVOCABLE TRUST" DATED MARCH 23, 2005, RECORDED AT THE HAMPSHIRE COUNTY REGISTRY OF DEEDS IN PLAN BOOK 205 PAGE 23.
 - A PLAN ENTITLED "PLAN OF LAND IN WORTHINGTON, MASS - OWNER: MANFRED ZORN" DATED JULY 1996 AND RECORDED IN PLAN BOOK 0178 PAGE 241.
- OWNER OF RECORD: TIMOTHY J. SENA AND CATHERINE RUDE-SENA AS RECORDED IN BOOK 8119 PAGE 223 (PARCEL 1) 8260 PAGE 228 (PARCEL 2) WITH A TOWN LISTED PROPERTY ADDRESS OF 190 BUFFINGTON HILL ROAD, WORTHINGTON, HAMPSHIRE COUNTY, MASSACHUSETTS. FOR FURTHER REFERENCE, SEE WORTHINGTON TAX MAP 407 - PARCEL 28 (PER MASS GIS).
- HORIZONTAL DATUM IS BASED ON MASSACHUSETTS STATE GRID COORDINATE SYSTEM NAD83 (2011 - MAINLAND). VERTICAL DATUM IS REFERENCED TO NAVD 88. TOPOGRAPHY SHOWN WAS DEVELOPED UTILIZING THE MOST UP TO DATE ONLINE ELECTRONIC LIDAR FILES FROM NGS, IN COMBINATION WITH ON THE GROUND DATA COLLECTION WITH SURVEY GRADE GPS AND OR ROBOTIC TOTAL STATION. CONTOUR INTERVAL SHOWN ON PLAN IS 2 FOOT.
- BUILDING STORY HEIGHTS WERE OBTAINED FROM PUBLICLY AVAILABLE PROPERTY RECORD CARDS AND GOOGLE IMAGERY. AN AVERAGE STORY IS APPROXIMATELY 10 FEET TALL FLOOR TO FLOOR AND ROOFING CAN PROVIDE AN ADDITIONAL AVERAGE 3 TO 7 FEET TO THE TOTAL BUILDING HEIGHT.
- THE WETLANDS SHOWN ON THIS PLAN WERE REVIEWED, DEFINED, AND FLAGGED BY OTHERS AND FIELD LOCATED BY SGC ENGINEERING DATED NOVEMBER 22, 2023. ADDITIONAL WETLANDS SHOWN WITHOUT BUFFERS WERE INCLUDED FROM MASSGIS DATA: NATIONAL WETLANDS INVENTORY PUBLICLY AVAILABLE AT MASS.GOV AND LAST UPDATED SEPTEMBER 2025.
- A PREDOMINATE PORTION OF THE PROPERTY LIES WITHIN ZONE "X" AND THE PROPOSED SOLAR DEVELOPMENT IS NOT AFFECTED (SEE PLAN). A SMALL CENTRAL PORTION OF THE LOCUS PARCEL IS AFFECTED BY ZONE "A" AND IS CATEGORIZED AS A SPECIFIED FLOOD HAZARD ZONE. FOR FURTHER REFERENCE SEE F.I.R.M. - FLOOD INSURANCE RATE MAP - COMMUNITY PANEL NUMBER 250175 0008 SUFFIX B / MAP NUMBER 8 OF 25 FOR THE TOWN OF WORTHINGTON, HAMPSHIRE COUNTY (ALL JURISDICTIONS), MASSACHUSETTS, WITH AN EFFECTIVE DATE OF JUNE 19, 1989. ZONE "A" (WATTS STREAM SO-CALLED) IS DESCRIBED AS AN AREA THAT NO BASE FLOOD ELEVATION HAS BEEN DETERMINED. THE BASE FLOOD ELEVATION IS THE WATER SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD. ZONE "X" IS DETERMINED AS AREAS OUTSIDE 500 - YEAR FLOOD PLAIN.
- NEITHER SGC ENGINEERING, LLC NOR WSP HAVE INDEPENDENTLY VERIFIED THE LOCATION, EXISTENCE, AND SERVICEABILITY OF ANY UTILITIES AND MAKE NO GUARANTEE TO THE COMPLETENESS OR THE ACCURACY OF ANY UTILITIES SHOWN ON THIS PLAN. UTILITIES SHOWN WERE FIELD LOCATED ABOVEGROUND AND VISUAL, AND OR REFERENCED FROM PLANS AND MAP REFERENCES. ADDITIONAL UTILITIES MAY EXIST IN THE FIELD, WHICH ARE NOT SHOWN ON THIS PLAN. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD PRIOR TO EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES. CALL "DIG SAFE" AT 1-888-344-7233 OR DIAL 811. SGC ENGINEERING, LLC AND WSP USA INC. ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN ON THIS PLAN.
- THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS, OR ENTITY NAMED IN THE CERTIFICATION AND TITLE BLOCK OF THIS PLAN. THIS SURVEY DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS, OR ENTITY WITHOUT HAVING SGC ENGINEERING'S CONSENT IN WRITING.
- THE LOCATIONS OF THE WATTS STREAM, WITHIN PARCEL "A" (SO CALLED), AND AN UN-NAMED BROOK, THAT DEMARCATES A WESTERLY BOUNDARY LINE OF PARCEL "B", ARE BOTH BASED ON PHYSICAL FIELD EVIDENCE, DEED CALLS, AND OR PLANS OF RECORD AT TIME OF SURVEY. BOTH WATTS STREAM AND THE UN-NAMED BROOK MAY OR MAY NOT AFFECT THE PRESENT - FUTURE PROPERTY DUE TO AVULSION, ACCRETION, AND/OR RELICTION.
- OBSERVATIONS OF THE PREMISES BY SGC IN NOVEMBER 2023:
 - LOCUS PARCEL HAS FREE AND CLEAR ACCESS, IN AND TO BUFFINGTON HILL ROAD AND RIDGE ROAD AS SHOWN ON PLAN. BOTH ROADS ARE DEDICATED AND PUBLIC WAYS OF VARIABLE WIDTHS.
 - THE LOCUS PARCEL IS THE SAME LAND AS DESCRIBED IN THE TITLE COMMITMENT AS EXHIBIT "A".
 - NO EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION, AND BUILDING ADDITIONS WERE OBSERVED ON SURVEYED PREMISES.
 - THE PROPERTY COMPRISES A SINGLE TAX LOT - TOWN OF WORTHINGTON TAX MAP NUMBER 407 PARCEL 28.
 - NO EVIDENCE WAS NOTICED OF THE SITE BEING USED AS A SOLID WASTE DUMP.

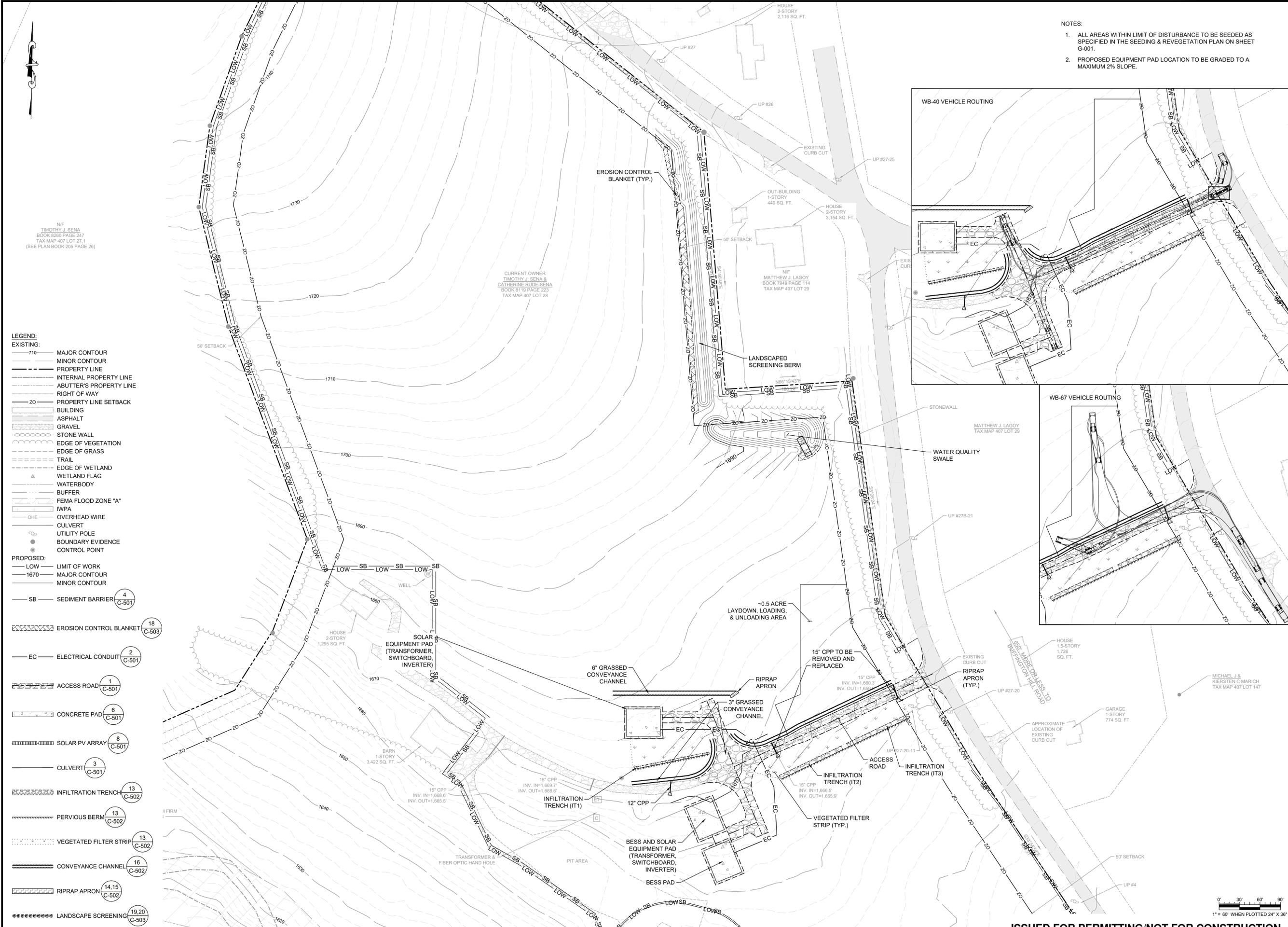


ITEM	REQUIRED	PROPOSED
PARCEL ID NUMBER(S)	TAX MAP 407 0 28	
ZONING DISTRICT	RESIDENTIAL - AGRICULTURAL DISTRICT	
PARCEL ACREAGE	2.0	71.6
FRONT SETBACK (FT)	50	50
REAR SETBACK (FT)	50	>500
SIDE SETBACK (FT)	50	50
MINIMUM FRONTAGE (FT)	400	1542
ADDITIONAL SETBACKS	ACCESS TO SIDE-REAR (FT)	25 >400
	ACCESS EASEMENT (FT)	15 -
	UTILITY EASEMENT (FT)	20 -
	LEASE TO FENCE (FT)	25 -
	LEASE TO BASINS (FT)	15 -
WETLANDS (FT)	100 -	
LOT COVERAGE	<50%	7.7%
MAX BUILDING HEIGHT (FT)	35	10

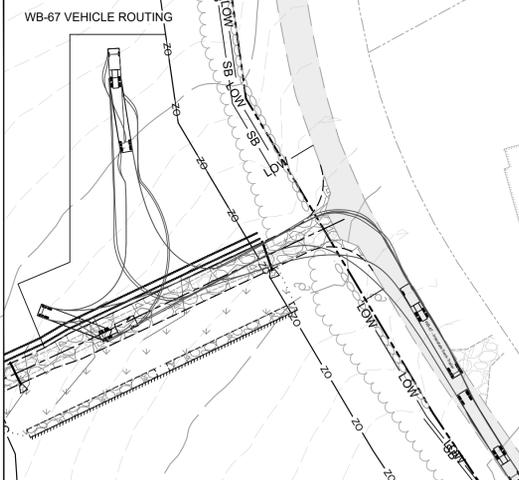
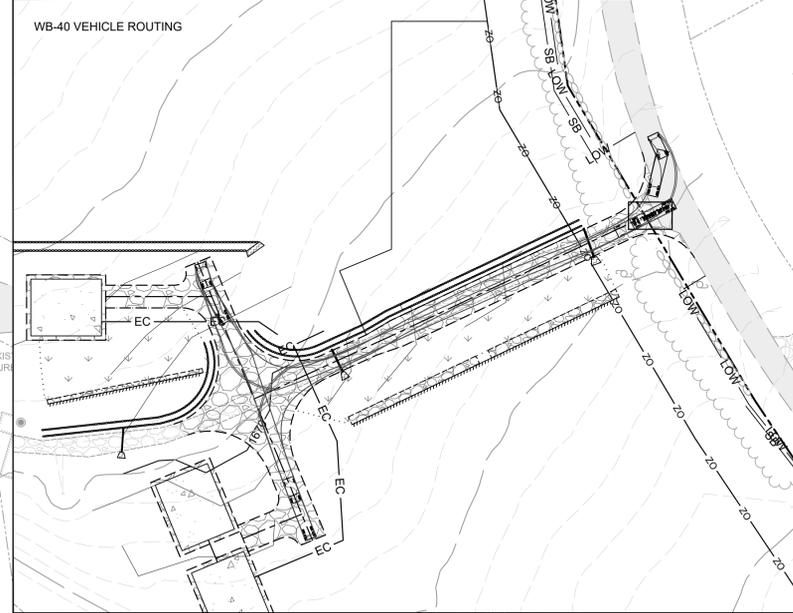


ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

NOTES:
 1. ALL AREAS WITHIN LIMIT OF DISTURBANCE TO BE SEEDED AS SPECIFIED IN THE SEEDING & REVEGETATION PLAN ON SHEET G-001.
 2. PROPOSED EQUIPMENT PAD LOCATION TO BE GRADED TO A MAXIMUM 2% SLOPE.



- LEGEND:**
- EXISTING:**
- 710 MAJOR CONTOUR
 - MINOR CONTOUR
 - PROPERTY LINE
 - INTERNAL PROPERTY LINE
 - ABUTTER'S PROPERTY LINE
 - RIGHT OF WAY
 - PROPERTY LINE SETBACK
 - BUILDING
 - ASPHALT
 - GRAVEL
 - STONE WALL
 - EDGE OF VEGETATION
 - EDGE OF GRASS
 - TRAIL
 - EDGE OF WETLAND
 - WETLAND FLAG
 - WATERBODY
 - BUFFER
 - FEMA FLOOD ZONE "A"
 - IWPA
 - OHE OVERHEAD WIRE
 - CULVERT
 - UTILITY POLE
 - BOUNDARY EVIDENCE
 - CONTROL POINT
- PROPOSED:**
- LOW LIMIT OF WORK
 - 1670 MAJOR CONTOUR
 - MINOR CONTOUR
 - SB SEDIMENT BARRIER (4 C-501)
 - EROSION CONTROL BLANKET (18 C-503)
 - EC ELECTRICAL CONDUIT (2 C-501)
 - ACCESS ROAD (1 C-501)
 - CONCRETE PAD (6 C-501)
 - SOLAR PV ARRAY (8 C-501)
 - CULVERT (3 C-501)
 - INFILTRATION TRENCH (13 C-502)
 - PERVIOUS BERM (13 C-502)
 - VEGETATED FILTER STRIP (13 C-502)
 - CONVEYANCE CHANNEL (16 C-502)
 - RIPRAP APRON (14,15 C-502)
 - LANDSCAPE SCREENING (19,20 C-503)



REVISION	DATE	ISSUE / REVISION DESCRIPTION
3	02/03/2026	RESPONSE TO COMMENTS
2	01/05/2026	RESPONSE TO COMMENTS
1	10/21/2025	REVISED PER TOWN OF WORTHINGTON PLANNING BOARD COMMENTS
0	09/23/2025	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

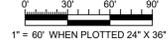
PROJECT: 2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT
 190 RIDGE ROAD
 WORTHINGTON, MA 01098

TITLE: GRADING/EARTHWORK PLAN

CLIENT: BWC WADES STREAM, LLC



DESIGNED BY: OAC
 CHECKED BY: APV
 PROJECT NUMBER: US-EI-365230438
 DRAWING NUMBER: C-101
 SHEET NUMBER: 3 OF 11



ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

NOTES:

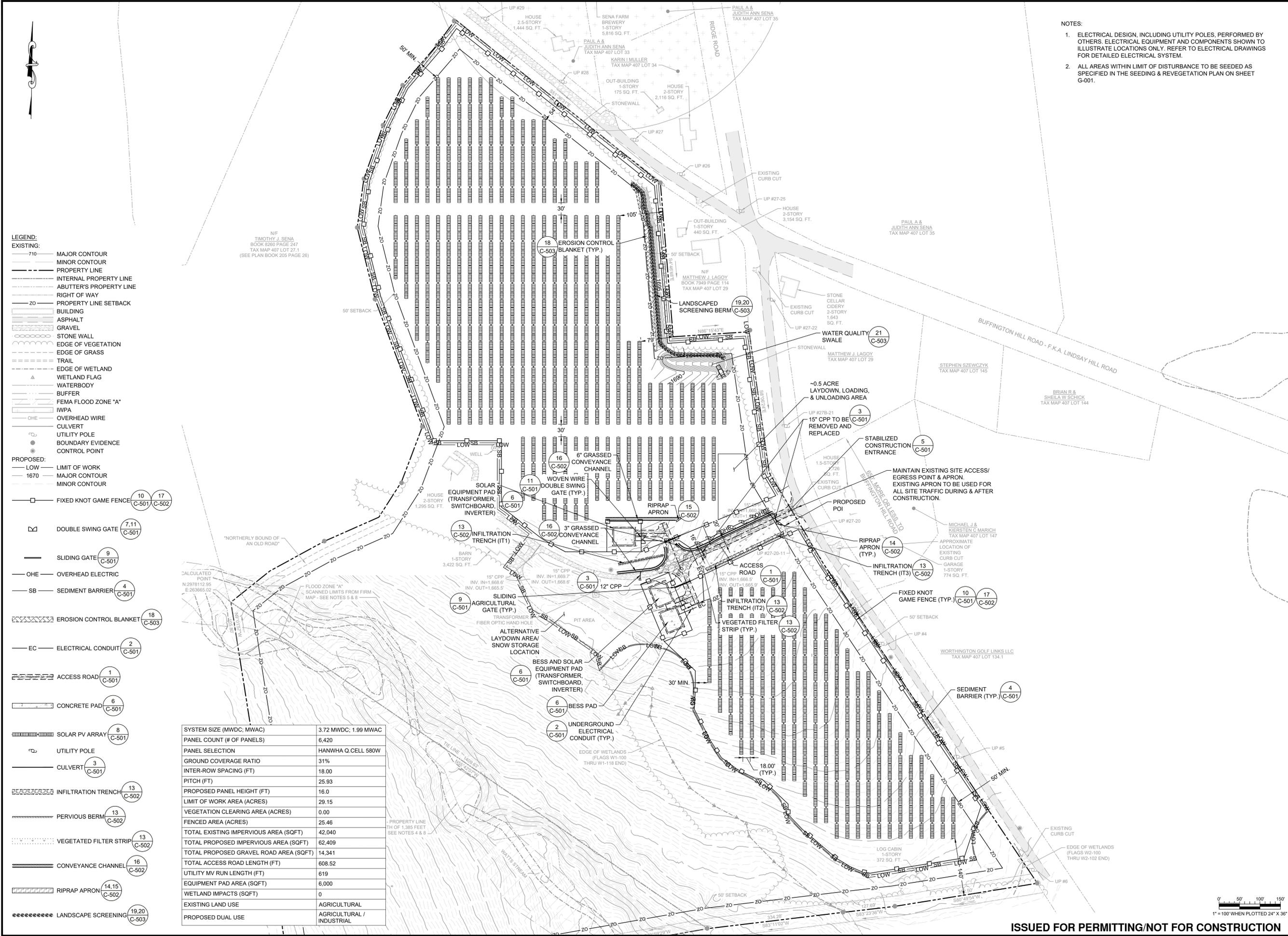
- ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM.
- ALL AREAS WITHIN LIMIT OF DISTURBANCE TO BE SEEDED AS SPECIFIED IN THE SEEDING & REVEGETATION PLAN ON SHEET G-001.

REVISION	DATE	ISSUE / REVISION DESCRIPTION
3	02/03/2026	RESPONSE TO COMMENTS
2	01/05/2026	RESPONSE TO COMMENTS
1	10/12/2025	REVISED PER TOWN OF WORthingTON PLANNING BOARD COMMENTS
0	09/23/2025	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

PROJECT:	2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT 190 RIDGE ROAD WORthingTON, MA 01098
CLIENT:	BWC WADES STREAM, LLC
TITLE:	PROPOSED CONDITIONS

DESIGNED BY:	OAC	DRAWN BY:	MRB
CHECKED BY:	APV	SCALE:	AS SHOWN
PROJECT NUMBER:	US-EI-365230438	DRAWING NUMBER:	C-102
SHEET NUMBER:	4 OF 11		

SEAL:

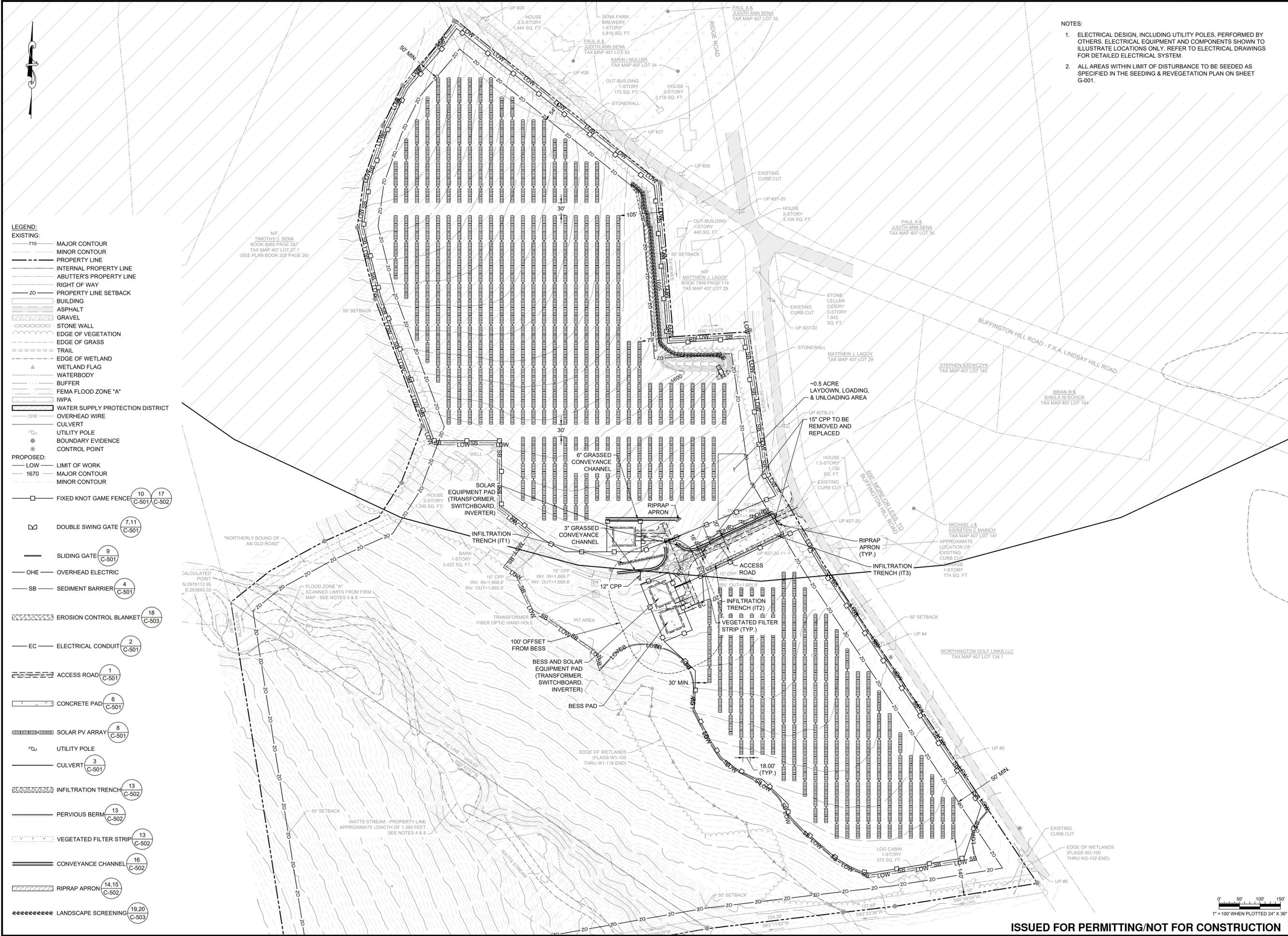


- LEGEND:**
- EXISTING:**
- 710 MAJOR CONTOUR
 - MINOR CONTOUR
 - PROPERTY LINE
 - INTERNAL PROPERTY LINE
 - ADJACENT'S PROPERTY LINE
 - RIGHT OF WAY
 - ZO PROPERTY LINE SETBACK
 - BUILDING
 - ASPHALT
 - GRAVEL
 - STONE WALL
 - EDGE OF VEGETATION
 - EDGE OF GRASS
 - TRAIL
 - EDGE OF WETLAND
 - WETLAND FLAG
 - WATERBODY
 - BUFFER
 - FEMA FLOOD ZONE "A"
 - IWPA
 - OHE OVERHEAD WIRE
 - CULVERT
 - UTILITY POLE
 - BOUNDARY EVIDENCE
 - CONTROL POINT
- PROPOSED:**
- LOW LIMIT OF WORK
 - 1670 MAJOR CONTOUR
 - MINOR CONTOUR
 - FIXED KNOT GAME FENCE (10, 17) C-501/C-502
 - DOUBLE SWING GATE (7, 11) C-501
 - SLIDING GATE (9) C-501
 - OHE OVERHEAD ELECTRIC
 - SB SEDIMENT BARRIER (4) C-501
 - EROSION CONTROL BLANKET (18) C-503
 - EC ELECTRICAL CONDUIT (2) C-501
 - ACCESS ROAD (1) C-501
 - CONCRETE PAD (6) C-501
 - SOLAR PV ARRAY (8) C-501
 - UTILITY POLE (3) C-501
 - CULVERT (3) C-501
 - INFILTRATION TRENCH (13) C-502
 - PERVIOUS BERM (13) C-502
 - VEGETATED FILTER STRIP (13) C-502
 - CONVEYANCE CHANNEL (16) C-502
 - RIPRAP APRON (14, 15) C-502
 - LANDSCAPE SCREENING (19, 20) C-503

SYSTEM SIZE (MWDC, MWAC)	3.72 MWDC; 1.99 MWAC
PANEL COUNT (# OF PANELS)	6,420
PANEL SELECTION	HANWHA Q.CELL 580W
GROUND COVERAGE RATIO	31%
INTER-ROW SPACING (FT)	18.00
PITCH (FT)	25.93
PROPOSED PANEL HEIGHT (FT)	16.0
LIMIT OF WORK AREA (ACRES)	29.15
VEGETATION CLEARING AREA (ACRES)	0.00
FENCED AREA (ACRES)	25.46
TOTAL EXISTING IMPERVIOUS AREA (SQFT)	42,040
TOTAL PROPOSED IMPERVIOUS AREA (SQFT)	62,409
TOTAL PROPOSED GRAVEL ROAD AREA (SQFT)	14,341
TOTAL ACCESS ROAD LENGTH (FT)	608.52
UTILITY MV RUN LENGTH (FT)	619
EQUIPMENT PAD AREA (SQFT)	6,000
WETLAND IMPACTS (SQFT)	0
EXISTING LAND USE	AGRICULTURAL
PROPOSED DUAL USE	AGRICULTURAL / INDUSTRIAL

0' 50' 100' 150'
 1" = 100' WHEN PLOTTED 24" X 36"

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION



- LEGEND:**
- EXISTING:**
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 - MINOR CONTOUR
 - PROPERTY LINE
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 - RIGHT OF WAY
 - PROPERTY LINE SETBACK
 - BUILDING
 - ASPHALT
 - GRAVEL
 - STONE WALL
 - EDGE OF VEGETATION
 - EDGE OF GRASS
 - TRAIL
 - EDGE OF WETLAND
 - WETLAND FLAG
 - WATERBODY
 - BUFFER
 - FEMA FLOOD ZONE "A"
 - IWPA
 - WATER SUPPLY PROTECTION DISTRICT
 - OVERHEAD WIRE
 - CULVERT
 - UTILITY POLE
 - BOUNDARY EVIDENCE
 - CONTROL POINT
- PROPOSED:**
- LOW LIMIT OF WORK
 - 1670 MAJOR CONTOUR
 - MINOR CONTOUR
 - FIXED KNOT GAME FENCE (10, 17) (C-501, C-502)
 - DOUBLE SWING GATE (7, 11) (C-501)
 - SLIDING GATE (9) (C-501)
 - OHE OVERHEAD ELECTRIC
 - SB SEDIMENT BARRIER (4) (C-501)
 - EROSION CONTROL BLANKET (18) (C-503)
 - EC ELECTRICAL CONDUIT (2) (C-501)
 - ACCESS ROAD (1) (C-501)
 - CONCRETE PAD (6) (C-501)
 - SOLAR PV ARRAY (8) (C-501)
 - UTILITY POLE
 - CULVERT (3) (C-501)
 - INFILTRATION TRENCH (13) (C-502)
 - PERVIOUS BERM (13) (C-502)
 - VEGETATED FILTER STRIP (13) (C-502)
 - CONVEYANCE CHANNEL (16) (C-502)
 - RIPRAP APRON (14, 15) (C-502)
 - LANDSCAPE SCREENING (19, 20) (C-503)

- NOTES:**
- ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM.
 - ALL AREAS WITHIN LIMIT OF DISTURBANCE TO BE SEEDED AS SPECIFIED IN THE SEEDING & REVEGETATION PLAN ON SHEET G-001.

wsp

WSP USA INC.
100 APOLLO DRIVE, SUITE 302
CHELMSFORD MASSACHUSETTS 01824
TELEPHONE: (978) 692-9000
FAX: (978) 692-6633
WEB: WWW.WSP.COM

REVISION	DATE	ISSUE / REVISION DESCRIPTION
3	02/03/2026	RESPONSE TO COMMENTS
2	01/05/2026	RESPONSE TO COMMENTS
1	10/21/2025	REVISED PER TOWN OF WORTHINGTON PLANNING BOARD COMMENTS
0	09/23/2025	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

PROJECT: 2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT
190 RIDGE ROAD
WORTHINGTON, MA 01098

TITLE: WATER SUPPLY PROTECTION DISTRICT OVERLAY

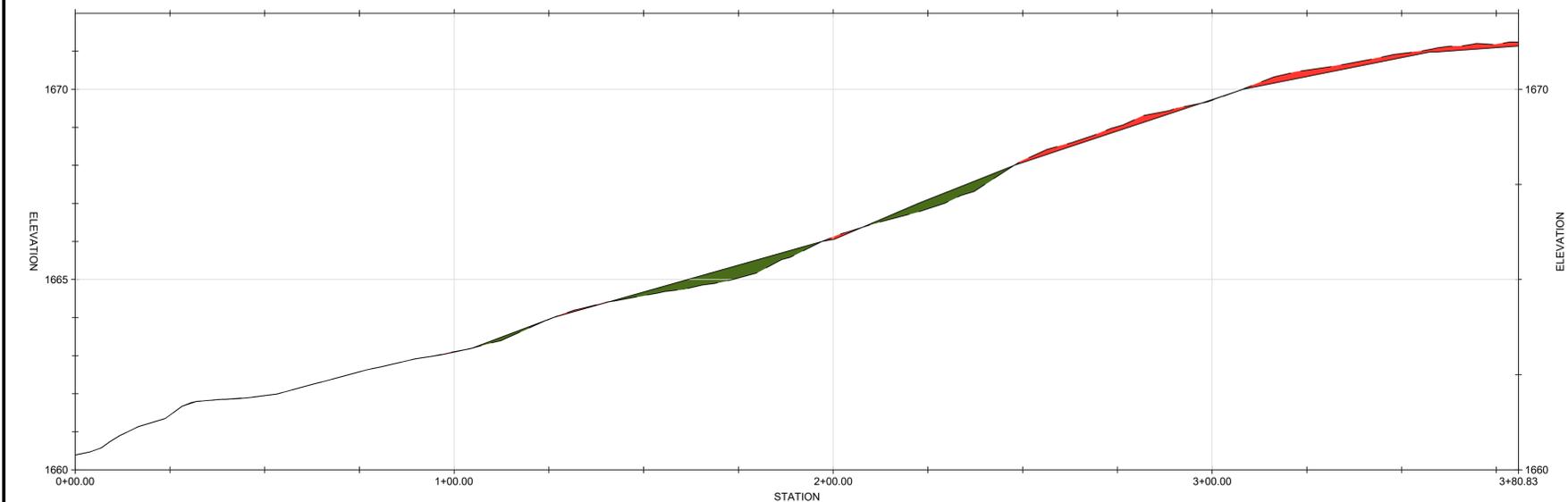
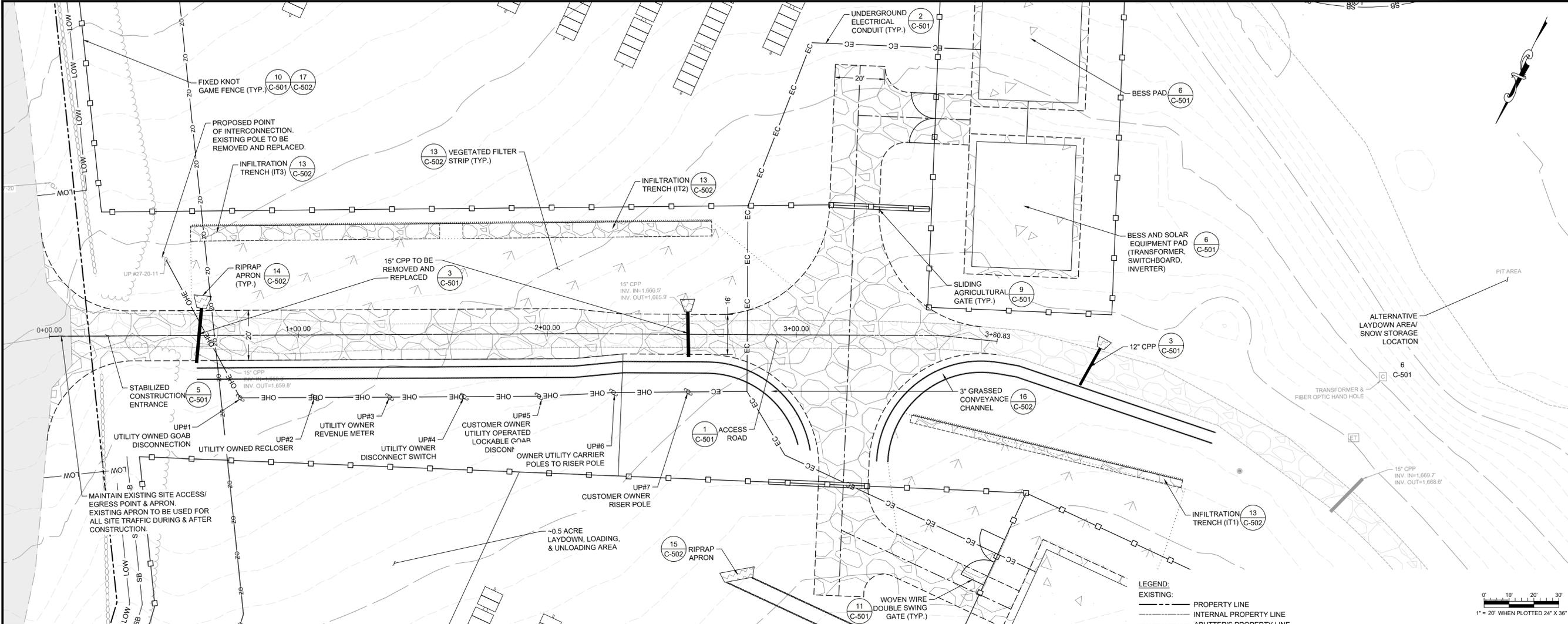
CLIENT: BWC WADES STREAM, LLC

SEAL:

DESIGNED BY: OAC
CHECKED BY: APV
PROJECT NUMBER: US-EI-365230438
DRAWING NUMBER: C-103
SHEET NUMBER: 5 OF 11



ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION



- LEGEND:**
- EXISTING:**
- PROPERTY LINE
 - INTERNAL PROPERTY LINE
 - ABUTTER'S PROPERTY LINE
 - RIGHT OF WAY
 - PROPERTY LINE SETBACK
 - BUILDING
 - ASPHALT
 - GRAVEL
 - STONE WALL
 - EDGE OF VEGETATION
 - EDGE OF GRASS
 - TRAIL
 - EDGE OF WETLAND
 - WETLAND FLAG
 - WATERBODY
 - BUFFER
 - FEMA FLOOD ZONE "A"
 - IWPA
 - OHE OVERHEAD WIRE
 - CULVERT
 - UTILITY POLE
 - BOUNDARY EVIDENCE
 - CONTROL POINT
- PROPOSED:**
- LOW LIMIT OF WORK
 - 1670 MAJOR CONTOUR
 - MINOR CONTOUR
 - FIXED KNOT GAME FENCE
 - DOUBLE SWING GATE
 - SLIDING GATE
 - OHE OVERHEAD ELECTRIC
 - SB SEDIMENT BARRIER
 - EROSION CONTROL BLANKET
 - EC ELECTRICAL CONDUIT
 - ACCESS ROAD
 - CONCRETE PAD
 - SOLAR PV ARRAY
 - UTILITY POLE
 - CULVERT
 - INFILTRATION TRENCH
 - PERVIOUS BERM
 - VEGETATED FILTER STRIP
 - CONVEYANCE CHANNEL
 - RIPRAP APRON
 - LANDSCAPE SCREENING

- PROFILE LEGEND:**
- EXISTING ELEVATION
 - PROPOSED ELEVATION
 - CUT AREA
 - FILL AREA

- NOTES:**
- ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM.
 - ALL AREAS WITHIN LIMIT OF DISTURBANCE TO BE SEEDED AS SPECIFIED IN THE SEEDING & REVEGETATION PLAN ON SHEET G-001.
 - THE TOTAL GRADING CUT VOLUME FOR THE ACCESS ROAD AND EQUIPMENT PAD AREA IS 841.92 CUBIC YARDS. THE TOTAL GRADING FILL VOLUME IS 584.76 CUBIC YARDS. THE GRADING OF THE ACCESS ROAD AND EQUIPMENT PAD AREA WILL RESULT IN A NET CUT VOLUME OF 257.16 CUBIC YARDS.

REVISION	DATE	ISSUE / REVISION DESCRIPTION	APPROVED
3	02/03/2026	RESPONSE TO COMMENTS	OAC
2	01/05/2026	RESPONSE TO COMMENTS	MRB
1	10/21/2025	REVISED PER TOWN OF WORTHINGTON PLANNING BOARD COMMENTS	MRB
0	09/23/2025	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION	MRB

PROJECT: 2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT
 190 RIDGE ROAD
 WORTHINGTON, MA 01098

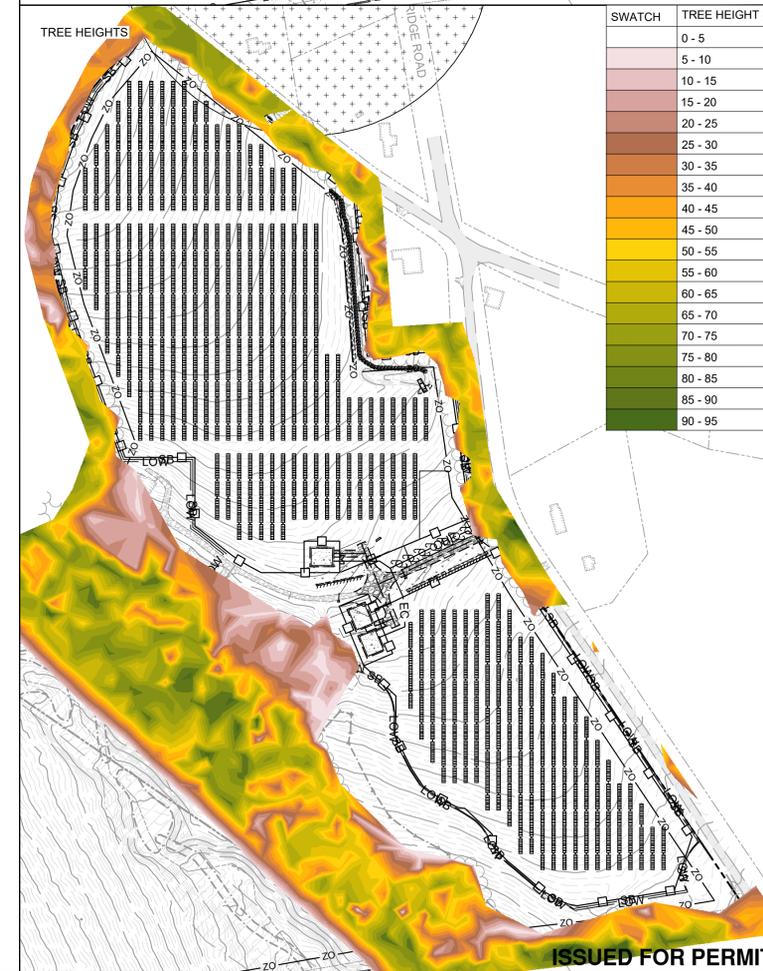
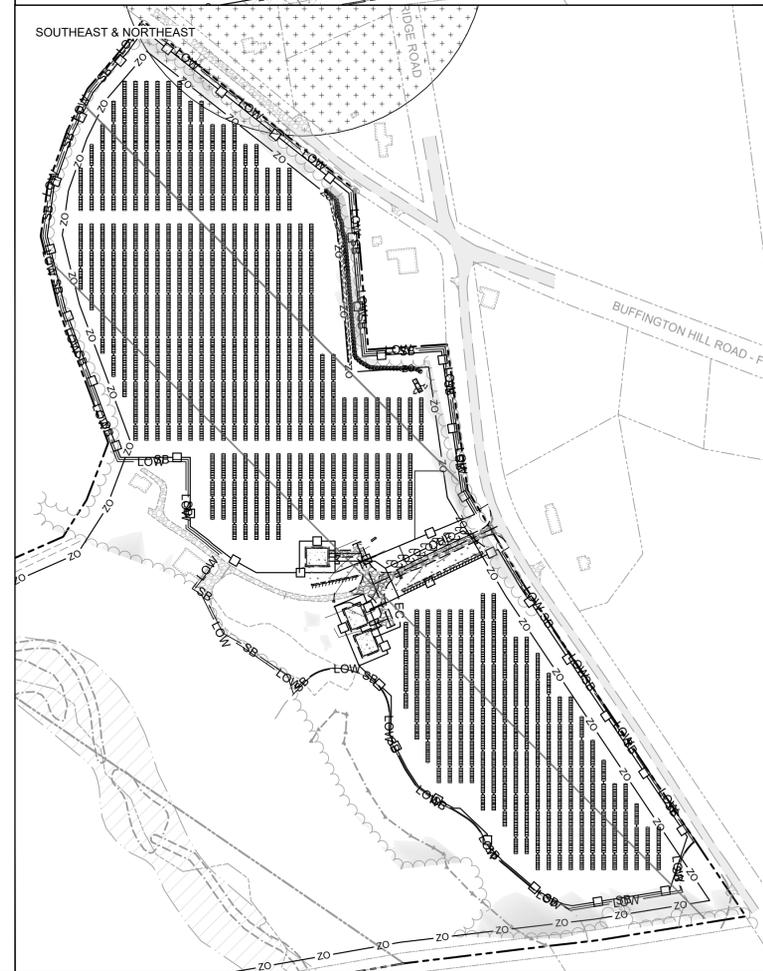
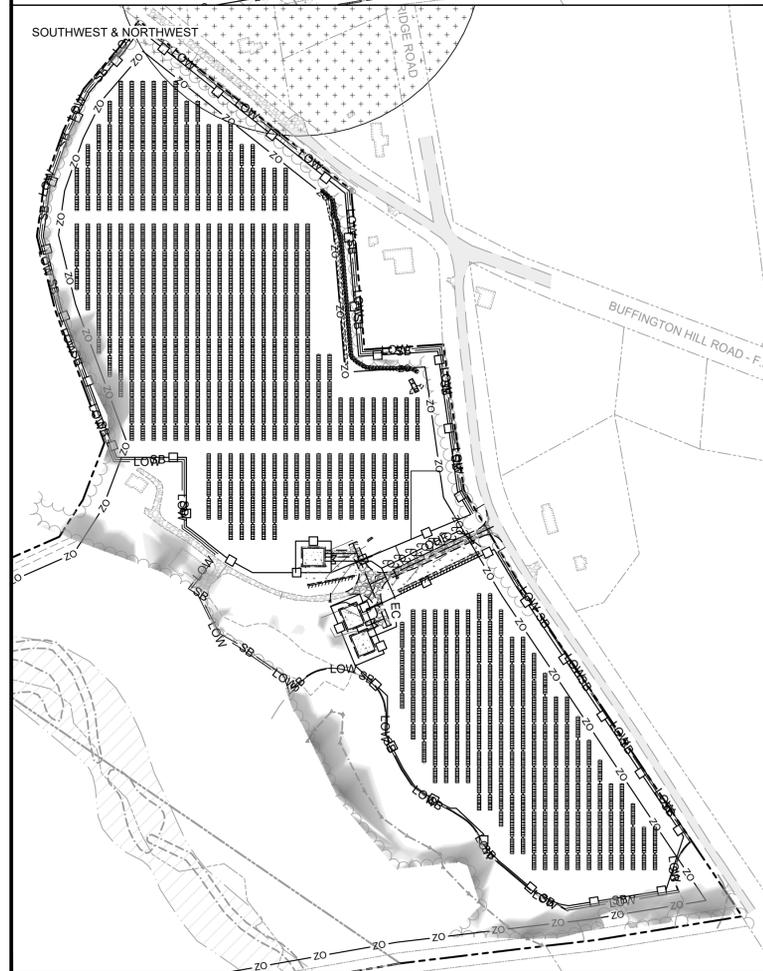
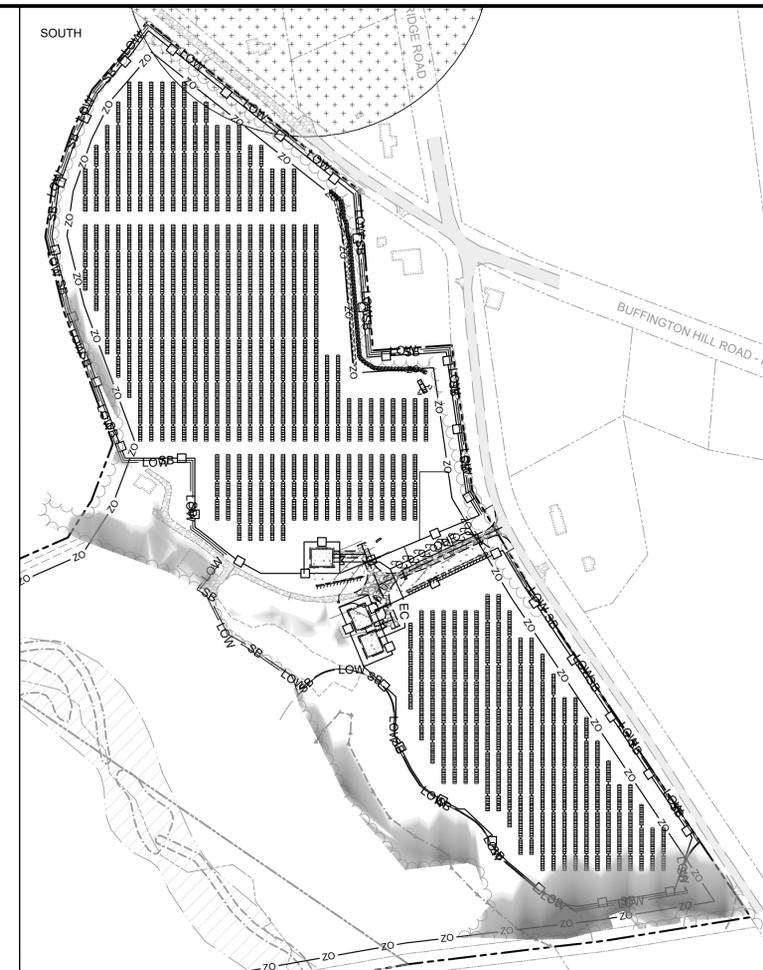
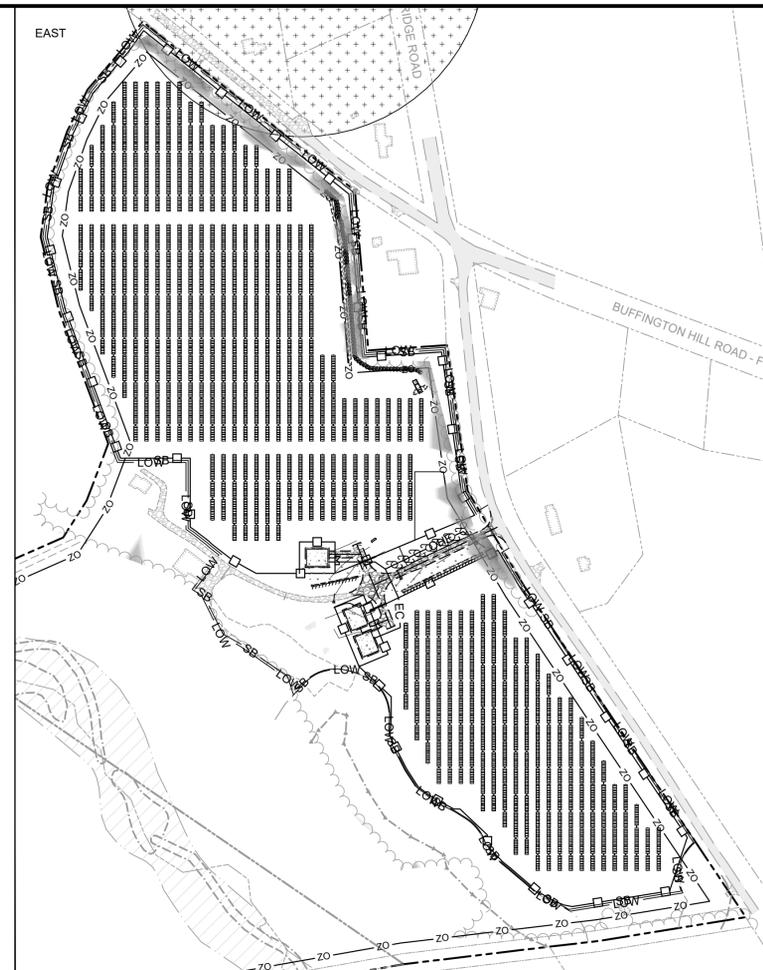
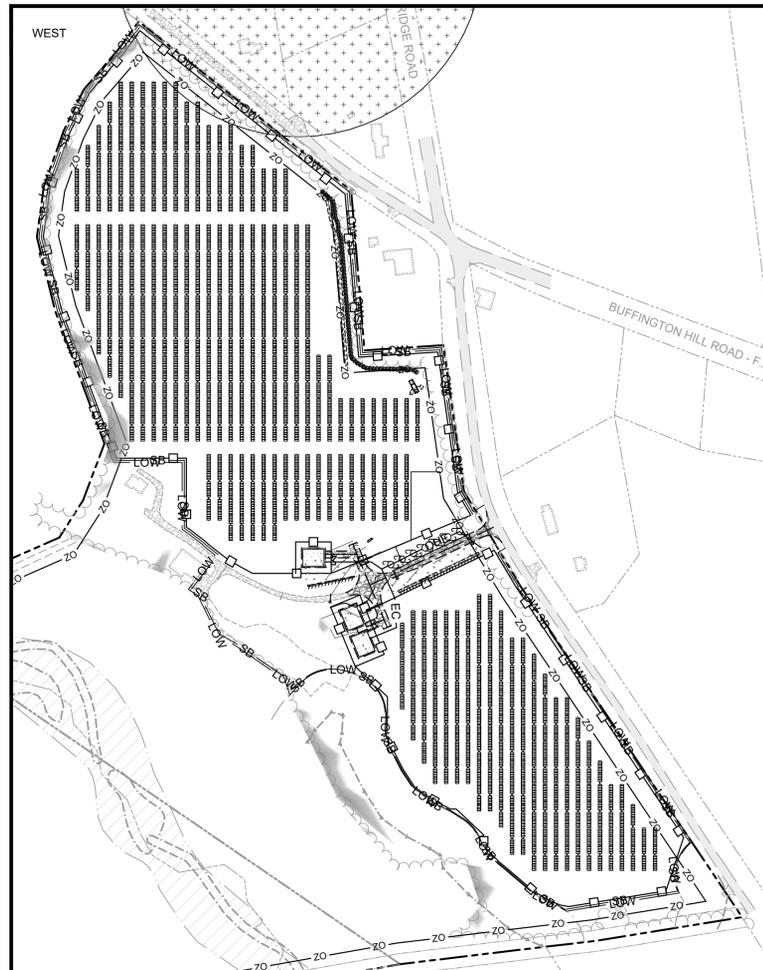
TITLE: ACCESS ROAD TOPOGRAPHIC PROFILE ANALYSIS

CLIENT: BWC WADES STREAM, LLC



DESIGNED BY: OAC
CHECKED BY: APV
PROJECT NUMBER: US-EI-365230438
DRAWING NUMBER: C-104
SHEET NUMBER: 6 OF 11

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION



- NOTES:
1. IDEAL SHADING SETBACKS:
 - 1.1. SOUTHERN TREES: 3X TREE HEIGHT
 - 1.2. EAST & WEST TREES: 2.5X TREE HEIGHT
 - 1.3. SOUTHWEST & SOUTHEAST TREES: 3X TREE HEIGHT
 - 1.4. NORTHWEST AND NORTHEAST TREES: 0.85X TREE HEIGHT

- LEGEND:
- EXISTING:
- 710 MAJOR CONTOUR
 - MINOR CONTOUR
 - PROPERTY LINE
 - INTERNAL PROPERTY LINE
 - ABUTTER'S PROPERTY LINE
 - RIGHT OF WAY
 - 20 PROPERTY LINE SETBACK
 - BUILDING
 - ASPHALT
 - GRAVEL
 - STONE WALL
 - EDGE OF VEGETATION
 - EDGE OF GRASS
 - TRAIL
 - EDGE OF WETLAND
 - WETLAND FLAG
 - WATERBODY
 - BUFFER
 - FEMA FLOOD ZONE "A"
 - IWPA
 - OHE OVERHEAD WIRE
 - CULVERT
 - UTILITY POLE
 - BOUNDARY EVIDENCE
 - CONTROL POINT
- PROPOSED:
- LOW LIMIT OF WORK
 - 1670 MAJOR CONTOUR
 - MINOR CONTOUR
 - FIXED KNOT GAME FENCE
 - DOUBLE SWING GATE
 - SLIDING GATE
 - OHE OVERHEAD ELECTRIC
 - SB SEDIMENT BARRIER
 - EROSION CONTROL BLANKET
 - EC ELECTRICAL CONDUIT
 - ACCESS ROAD
 - CONCRETE PAD
 - SOLAR PV ARRAY
 - UTILITY POLE
 - CULVERT
 - INFILTRATION TRENCH
 - PERVIOUS BERM
 - VEGETATED FILTER STRIP
 - CONVEYANCE CHANNEL
 - RIPRAP APRON
 - LANDSCAPE SCREENING

SWATCH	TREE HEIGHT (FT)
Lightest	0 - 5
	5 - 10
	10 - 15
	15 - 20
	20 - 25
	25 - 30
	30 - 35
	35 - 40
	40 - 45
	45 - 50
	50 - 55
	55 - 60
	60 - 65
	65 - 70
	70 - 75
	75 - 80
	80 - 85
	85 - 90
Darkest	90 - 95

- 10 C-501
- 17 C-502
- 7,11 C-501
- 9 C-501
- 4 C-501
- 18 C-503
- 2 C-501
- 1 C-501
- 6 C-501
- 8 C-501
- 3 C-501
- 13 C-502
- 13 C-502
- 13 C-502
- 16 C-502
- 14,15 C-502
- 19,20 C-503

WSP USA INC.
100 APOLLO DRIVE, SUITE 302
CHELMSFORD MASSACHUSETTS 01824
TELEPHONE: (978) 692-9090
FAX: (978) 692-6633
WEB: WWW.WSP.COM

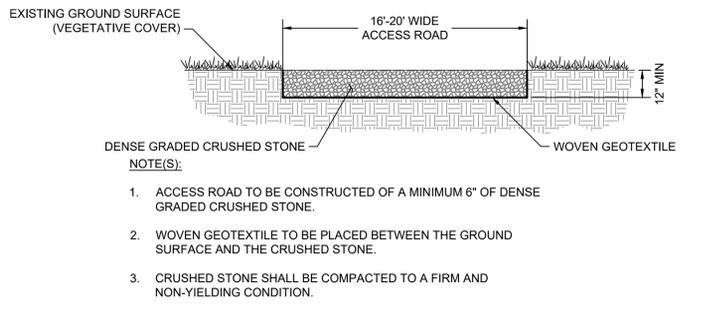
REVISION	DATE	ISSUE / REVISION DESCRIPTION
3	02/03/2026	RESPONSE TO COMMENTS
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PROJECT: 2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT
190 RIDGE ROAD
WORTHINGTON, MA 01098

TITLE: SHADOW ANALYSIS OF PROPOSED CONDITIONS

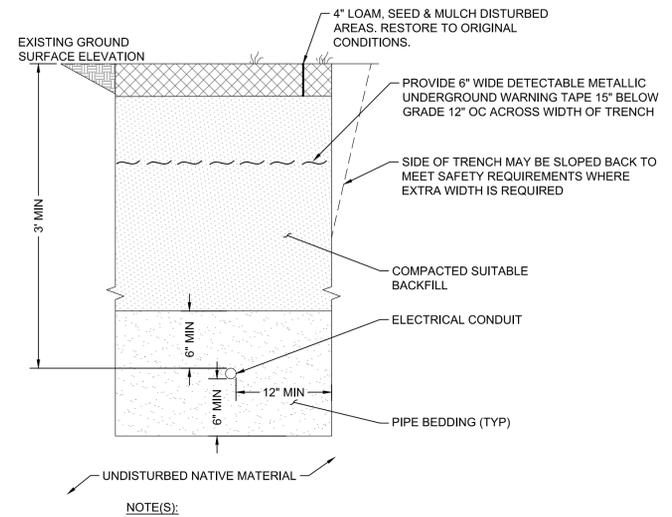
CLIENT: BWC WADES STREAM, LLC

DESIGNED BY: OAC
DRAWN BY: MRB
CHECKED BY: APV
SCALE: AS SHOWN
PROJECT NUMBER: US-EI-365230438
DRAWING NUMBER: C-106
SHEET NUMBER: 8 OF 11



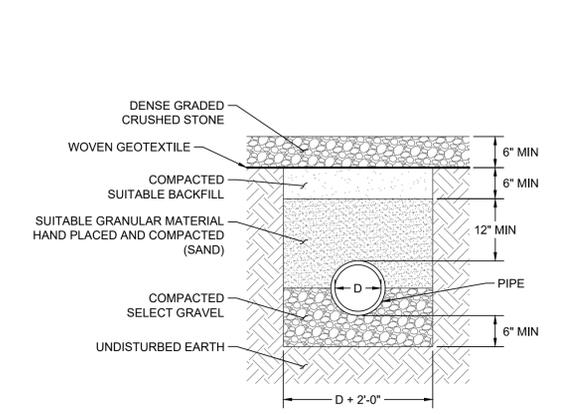
FLUSH CRUSHED STONE ACCESS ROAD
NOT TO SCALE

- NOTE(S):**
- ACCESS ROAD TO BE CONSTRUCTED OF A MINIMUM 6" OF DENSE GRADED CRUSHED STONE.
 - WOVEN GEOTEXTILE TO BE PLACED BETWEEN THE GROUND SURFACE AND THE CRUSHED STONE.
 - CRUSHED STONE SHALL BE COMPACTED TO A FIRM AND NON-YIELDING CONDITION.



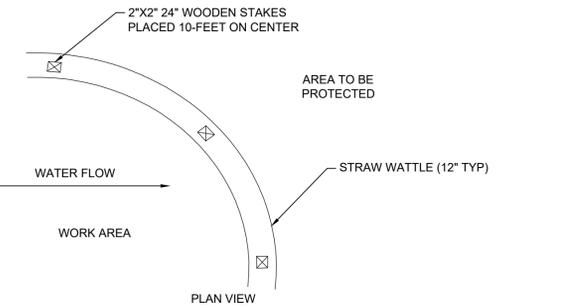
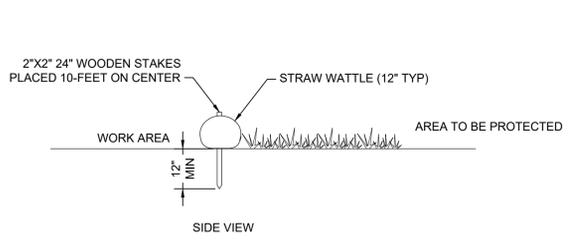
TYPICAL ELECTRICAL CONDUIT UTILITY TRENCH
NOT TO SCALE

- NOTE(S):**
- DETAIL SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. ELECTRICAL ENGINEER TO CONFIRM REGULATORY AND CODE COMPLIANCE.

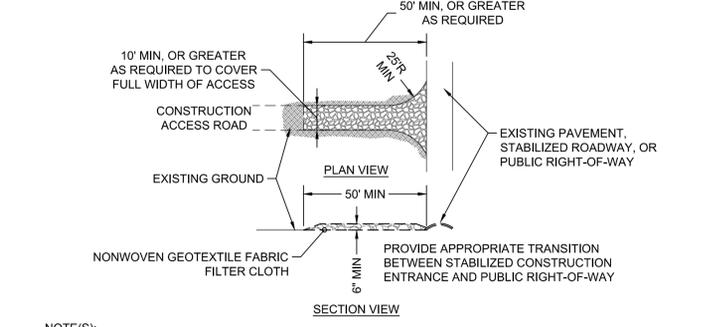


TYPICAL CULVERT TRENCH
NOT TO SCALE

- NOTE(S):**
- ALIGN CENTER OF PIPE WITH CENTERLINE OF DITCH AND BOTTOM OF PIPE WITH DITCH LINE.
 - PIPE EXTENDS A MINIMUM OF 3' BEYOND DENSE GRADED CRUSHED STONE AT INLET AND OUTLET.
 - PIPE SLOPE SHALL FOLLOW EXISTING DITCH LINE BUT BE NO LESS THAN 1.5% AND NO MORE THAN 10%.

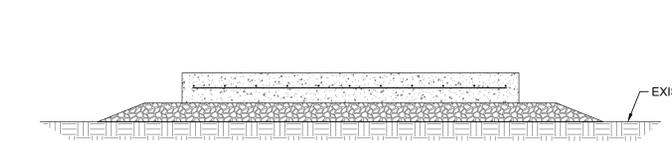


SEDIMENT BARRIER - STRAW WATTLE
NOT TO SCALE



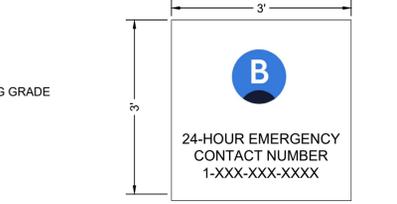
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

- NOTE(S):**
- STONE TO BE 1"-3" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FT.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - TEN (10) FT. MIN, BUT NOT LESS THAN THE FULL TRAVELED WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS OR BENEATH THE ENTRANCE.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

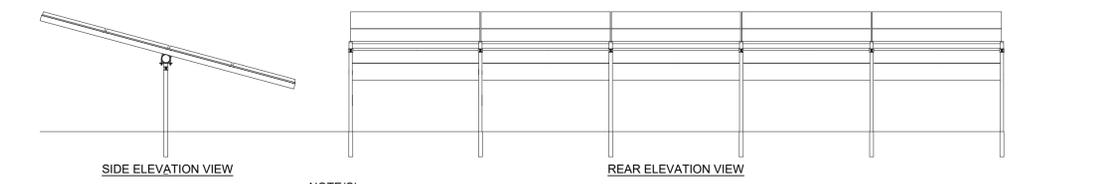


TYPICAL CONCRETE EQUIPMENT PAD SECTION
NOT TO SCALE

- NOTE(S):**
- CONCRETE PAD SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN TO BE FINALIZED AT LATER DATE.

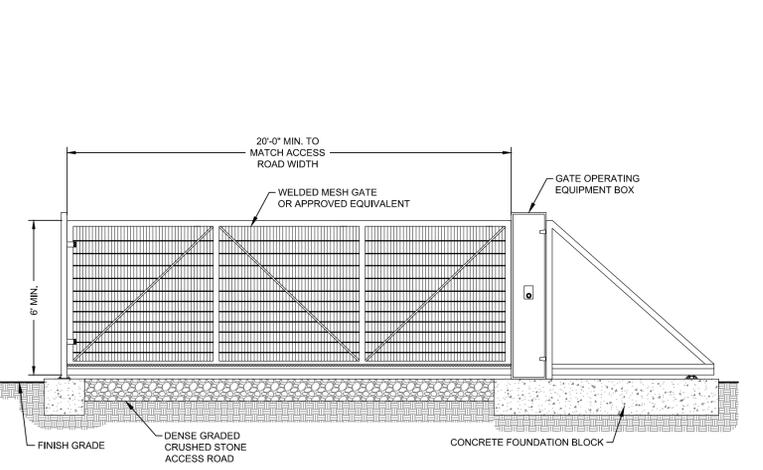


TYPICAL ENTRANCE SIGN
NOT TO SCALE



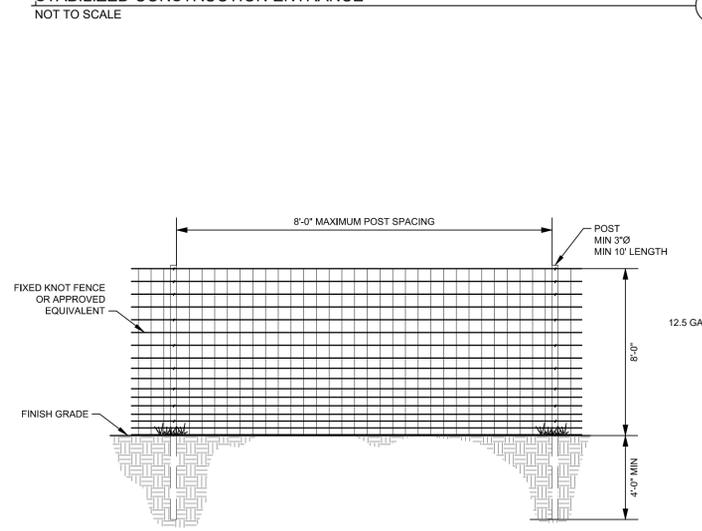
TRACKER SOLAR PV ARRAY
NOT TO SCALE

- NOTE(S):**
- DESIGN FOR FOUNDATIONS, RACKING, AND MODULES BY OTHERS. DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY.



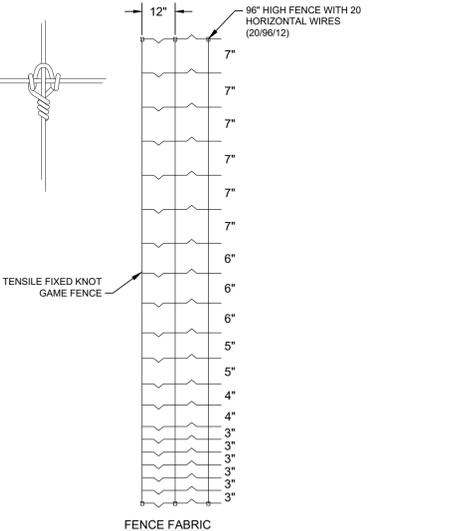
WELDED MESH ELECTRIC SLIDING GATE
NOT TO SCALE

- NOTE:**
- TYPICAL GATE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN TO BE FINALIZED AT LATER DATE.



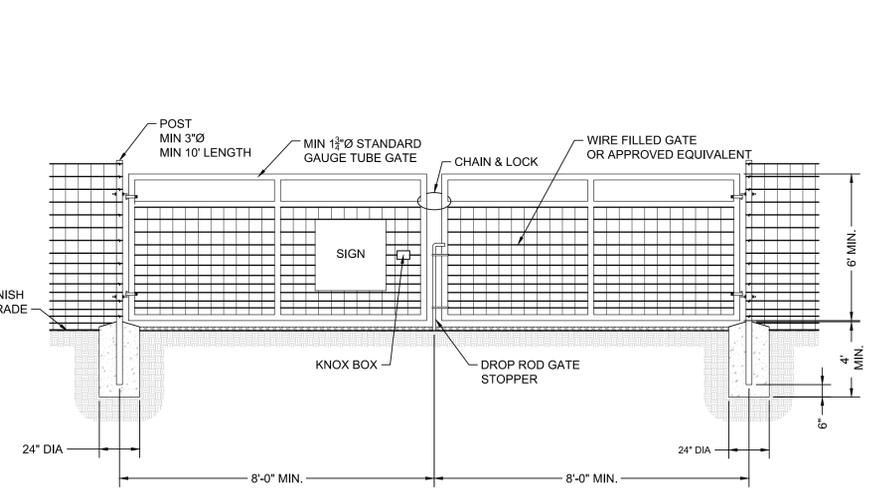
WOVEN WIRE FENCE
NOT TO SCALE

- NOTE:**
- TYPICAL FENCE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN TO BE FINALIZED AT LATER DATE.



WOVEN WIRE DOUBLE SWING GATE
NOT TO SCALE

- NOTE:**
- TYPICAL GATE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN TO BE FINALIZED AT LATER DATE.



HIGH VOLTAGE SIGN
NOT TO SCALE

- NOTES:**
- PLACE ALONG PERIMETER FENCING AT AN INTERVAL NO LESS THAN 100 FEET.
 - DETAIL SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN TO BE FINALIZED AT LATER DATE.

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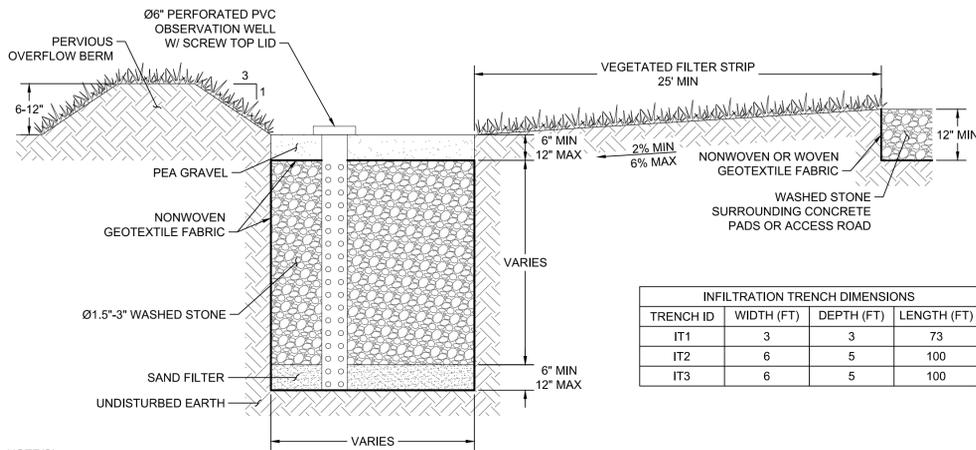
PROJECT: 2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT
190 RIDGE ROAD
WORTHINGTON, MA 01098

TITLE: DETAILS (SHEET 1 OF 3)

CLIENT: BWC WADES STREAM, LLC



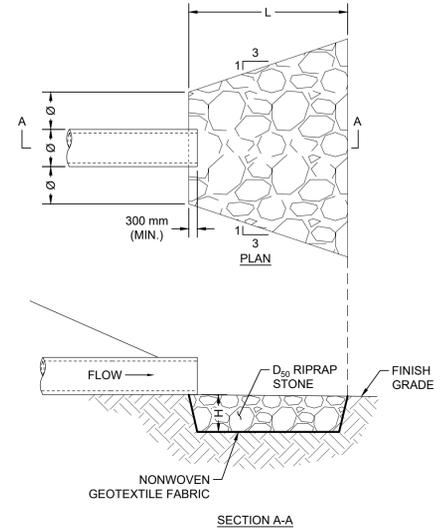
DESIGNED BY: OAC	DRAWN BY: MRB
CHECKED BY: APV	SCALE: AS SHOWN
PROJECT NUMBER: US-EI-365230438	DRAWING NUMBER: C-501
SHEET NUMBER: 9	OF 11



NOTE(S):

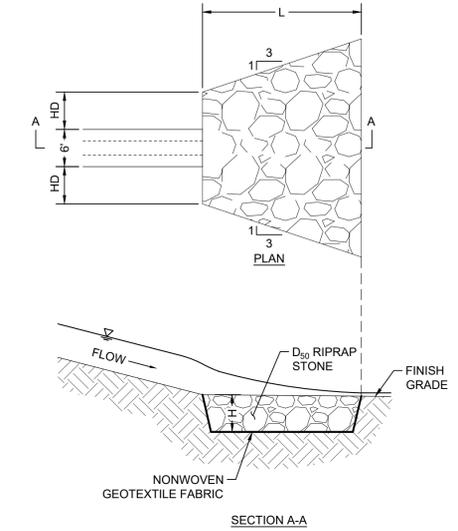
1. PEROUS BERM MAY VARY IN HEIGHT BETWEEN 6 TO 12 INCHES IN ORDER TO ACHIEVE A LEVEL ELEVATION ALONG THE TOP OF THE BERM TO THE MAXIMUM EXTENT POSSIBLE.
2. ONE SCREW TOP OBSERVATION WELL TO BE INSTALLED CENTRAL TO THE TRENCH LENGTH.

INFILTRATION TRENCH
NOT TO SCALE



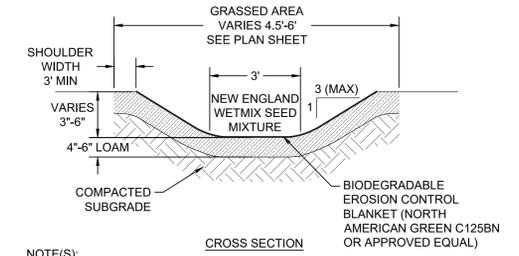
RIPRAP APRON DIMENSIONS				
PIPE Ø	CLASS	D ₅₀ (IN)	LENGTH L (FT)	HEIGHT H (IN)
12"	1	5	4	18
15"	1	5	5	18

RIPRAP APRON (PIPE)
NOT TO SCALE



RIPRAP APRON DIMENSIONS				
HYDRAULIC DIAMETER (HD)	CLASS	D ₅₀ (IN)	LENGTH L (FT)	HEIGHT H (IN)
0.75'	3	10	4	24

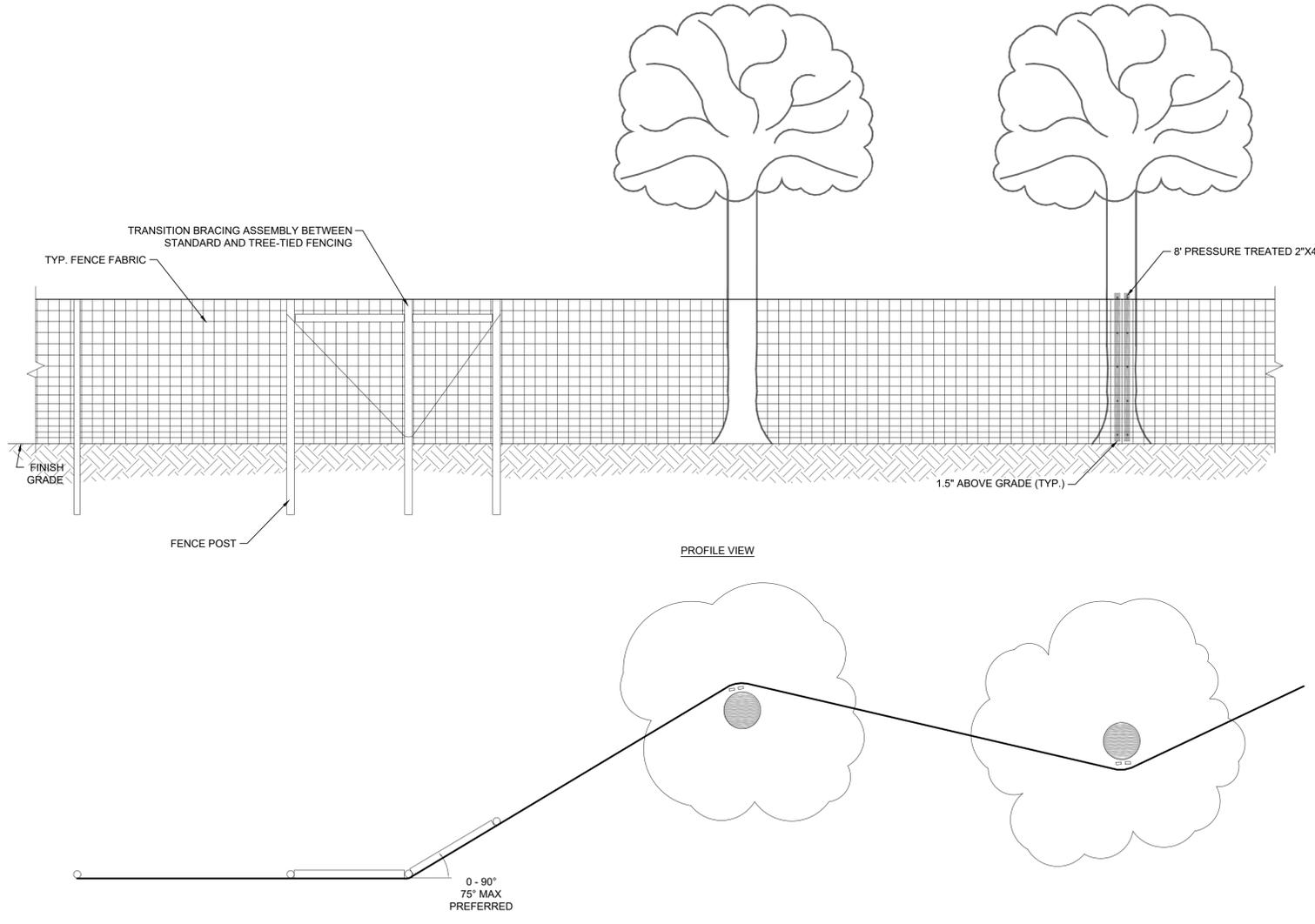
RIPRAP APRON (CHANNEL)
NOT TO SCALE



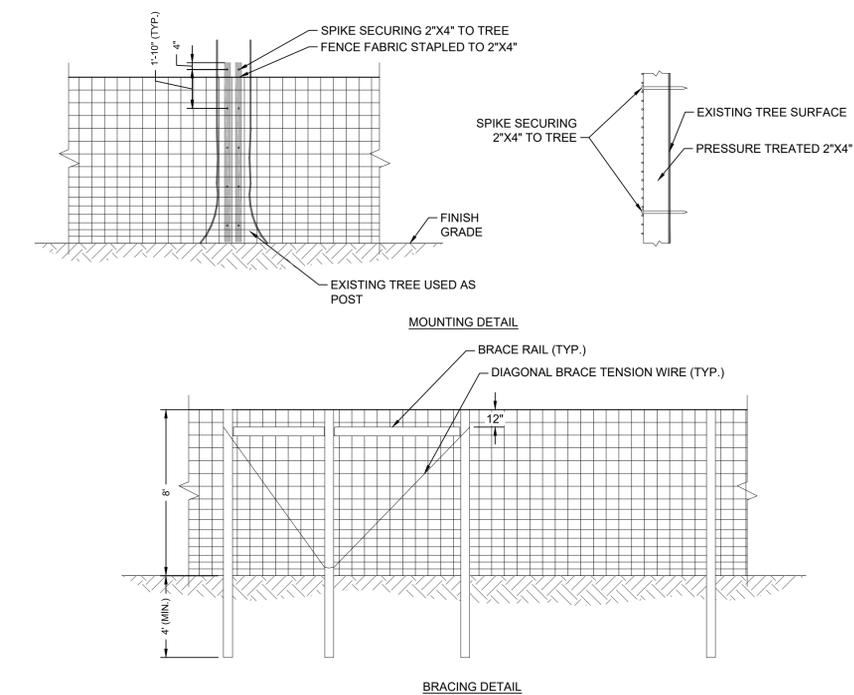
NOTE(S):

1. THE LONGITUDINAL SLOPE OF THE CHANNEL BOTTOM SHOULD BE AS FLAT AS POSSIBLE AND NO GREATER THAN 5%.

GRASSED CONVEYANCE CHANNEL
NOT TO SCALE



TREE-TIED WOVEN WIRE FENCE
NOT TO SCALE



NOTE(S):

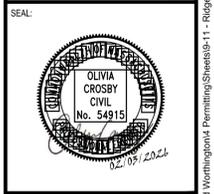
1. ALL FENCING AND HARDWARE SHALL BE GALVANIZED.
2. FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK (R) PRO 30 (2096-3), 12.5AWG-16 HIGH TENSILE FIXED KNOT GAME FENCE OR APPROVED EQUIVALENT. INSTALLED AND BRACED PER MANUFACTURERS RECOMMENDATIONS. NOT TO EXCEED 2" GAP ABOVE GRADE.
3. ONLY SOUND, HEALTHY TREES GREATER THAN 6" DBH SPACED 10' - 40' APART SHALL BE USED.
4. ROUTE FENCE TO AVOID IMPINGING ON GROWTH OF ADJACENT TREES.
5. ADD 2"x4" SPACERS AS NEEDED BASED ON ANGLE AND DBH TO ENSURE FENCING DOES NOT CONTACT TREE.
6. OBSTRUCTIVE LIMBS TO BE CLIPPED FROM TRUNK OF TREE.

BRACING DETAIL

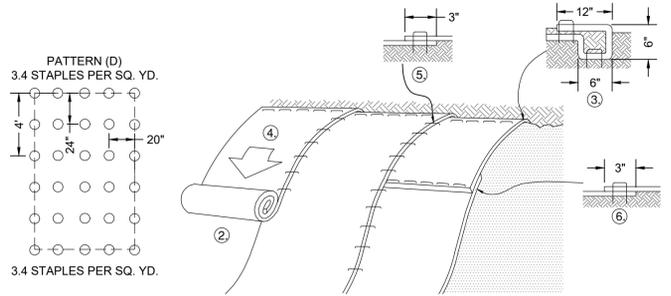
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PROJECT: **2.0 MW AC GROUND-MOUNT SOLAR PV DEVELOPMENT**
190 RIDGE ROAD
WORTHINGTON, MA 01098
TITLE: **DETAILS (SHEET 2 OF 3)**

CLIENT: **BWC WADES STREAM, LLC**



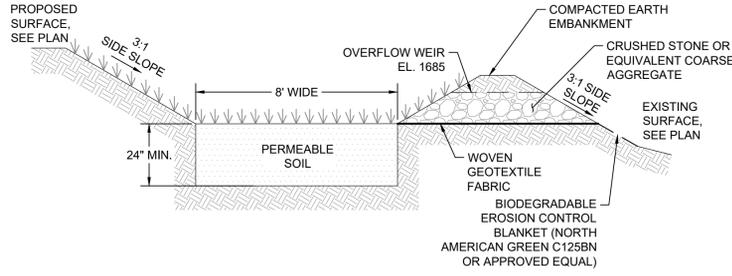
DESIGNED BY: OAC
DRAWN BY: MRB
CHECKED BY: APV
SCALE: AS SHOWN
PROJECT NUMBER: US-EI-365230438
DRAWING NUMBER: **C-502**
SHEET NUMBER: **10 OF 11**



PATTERN (D)
3.4 STAPLES PER SQ. YD.
STAPLE PATTERN GUIDE
6.67" WIDE ROLLS
SLOPE INSTALLATION
(SEE STEPS BELOW)

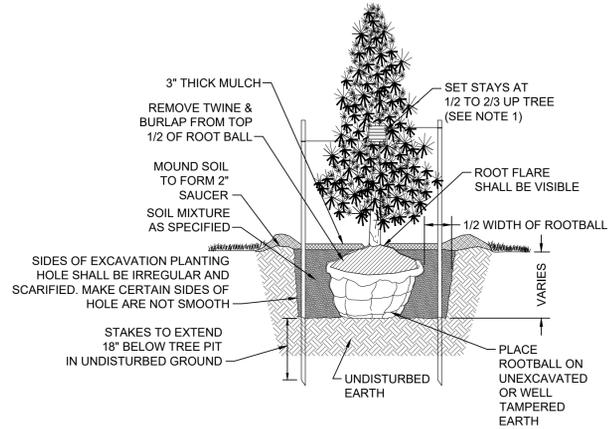
- NOTE(S):**
- THIS DETAIL REFERENCES PRODUCTS BY NORTH AMERICAN GREEN. EQUIVALENT PRODUCTS MAY BE USED AS APPROVED BY THE ENGINEER. EROSION CONTROL BLANKETS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
 - EROSION CONTROL MATTING TO BE NORTH AMERICAN GREEN C125BN OR APPROVED EQUAL. INSTALL USING STAPLE PATTERN D.
 - PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED (SEE DRAWING G-001).
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECPs BACK OVER SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPs.
 - ROLL THE RECPs DOWN THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH AN APPROXIMATE 3" OVERLAP.
 - CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPs WIDTH.
 - STAPLES LONGER THAN 6 INCHES SHALL NOT BE USED WITHIN THE LIMIT OF WASTE TO AVOID PENETRATION INTO THE LANDFILL CAP.

EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE 18



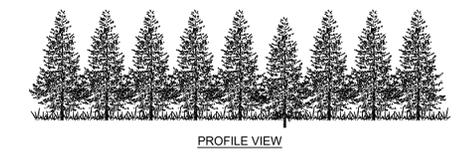
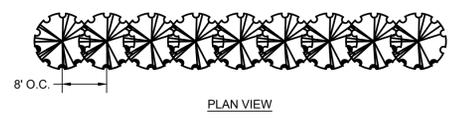
- NOTE(S):**
- LONGITUDINAL SLOPE OF THE BOTTOM OF THE SWALE SHALL NOT EXCEED 5%.

WATER QUALITY DRY SWALE
NOT TO SCALE 21



- NOTE(S):**
- STAKE ALL TREES OVER 6 FEET TALL.
 - TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE (OR SLIGHTLY ABOVE).
 - NEVER CUT LEADERS.
 - PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES.
 - REMOVE ALL WIRE BRACKETS FROM ROOTBALL.
 - REMOVE ALL STAKES 1 YEAR AFTER PLANTING.

VEGETATIVE SCREENING PLANTING
NOT TO SCALE 19



SPECIES	COMMON NAME	HEIGHT WHEN PLANTED	MATURE HEIGHT	MATURE WIDTH	ROOT
THUJA PLICATA X STANDISHII 'GREEN GIANT'	GREEN GIANT ARBORVITAE	6'-7'	30'-50'	10'-15'	BALLED & BURLAPED (B&B)

VEGETATIVE SCREENING PLANTING PLAN
NOT TO SCALE 20

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WORTHINGTON, MA 01098

TITLE: DETAILS (SHEET 3 OF 3)

CLIENT: BWC WADES STREAM, LLC

DESIGNED BY: OAC	DRAWN BY: MRB
CHECKED BY: APV	SCALE: AS SHOWN
PROJECT NUMBER: US-EI-365230438	
DRAWING NUMBER: C-503	
SHEET NUMBER: 11 OF 11	

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