

BRISTOL SOLAR ONE, LLC

"BRISTOL SOLAR ONE, LLC"

399 HILL STREET BRISTOL, CT

CSC D&M PLANS DECEMBER 18, 2020

BRISTOL SOLAR ONE, LLC
150 TRUMBULL STREET
4TH FLOOR
HARTFORD, CT, 06103

ALL-POINTS
TECHNOLOGY CORPORATION
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

APPROVED FOR CONSTRUCTION		
NO	DATE	REVISION
0	12/18/20	CSC D&M PLANS: BJP
1		
2		
3		
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DESIGN PROFESSIONAL OF RECORD
PROF: BRADLEY J. PARSONS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385
OWNER: MARK E., ANN L. & PAUL C. MINOR
ADDRESS: 399 HILL STREET BRISTOL, CT

BRISTOL SOLAR ONE, LLC
SITE ADDRESS: 399 HILL STREET BRISTOL, CT
APT FILING NUMBER: CT590220
DRAWN BY: JT
DATE: 12/18/20 CHECKED BY: BJP

SHEET TITLE:
TITLE SHEET & INDEX

SHEET NUMBER:
T-1

LIST OF DRAWINGS

- T-1 TITLE SHEET & INDEX
- 1, 2, & 3 EXISTING CONDITIONS PLAN PROVIDED BY WSP USA INC. OF 3
- GN-1 GENERAL NOTES
- GN-2 ENVIRONMENTAL NOTES RESOURCE PROTECTION MEASURES
- OP-1 OVERALL SITE PLAN
- EC-1 SEDIMENTATION & EROSION CONTROL NOTES
- EC-2 SEDIMENTATION & EROSION CONTROL DETAILS
- EC-3 PHASE 1 SEDIMENTATION & EROSION CONTROL PLAN
- EC-4 PHASE 1 SEDIMENTATION & EROSION CONTROL PLAN
- EC-5 PHASE 2 SEDIMENTATION & EROSION CONTROL PLAN
- EC-6 PHASE 2 SEDIMENTATION & EROSION CONTROL PLAN
- GP-1 FINAL GRADING & DRAINAGE PLAN
- GP-2 FINAL GRADING & DRAINAGE PLAN
- SP-1 SITE & UTILITY PLAN
- SP-2 SITE & UTILITY PLAN
- DN-1 SITE DETAILS
- DN-2 SITE DETAILS

SITE INFORMATION

SITE NAME: "BRISTOL SOLAR ONE, LLC"
LOCATION: 399 HILL STREET BRISTOL, CT

SITE TYPE/DESCRIPTION: ADD (1) GROUND MOUNTED SOLAR PANEL ARRAY W/ ASSOCIATED EQUIPMENT, GRAVEL ACCESS ROAD, AND STORMWATER MANAGEMENT.

PROPERTY OWNER: MARK E., ANN L. & PAUL C. MINOR
399 HILL STREET BRISTOL, CT

APPLICANT: BRISTOL SOLAR ONE, LLC
150 TRUMBULL STREET, 4TH FLOOR HARTFORD, CT 06103

ENGINEER CONTACT: BRADLEY J. PARSONS, P.E.
(860) 663-1697 x208

LATITUDE: 41°41'27.70" N
LONGITUDE: 72°58'41.72" W
ELEVATION: 765± AMSL

MBLU: 66-263
ZONE: R-25
EXISTING LAND USE: SINGLE FAMILY RESIDENTIAL & AGRICULTURAL
PROPOSED LAND USE: COMMUNICATIONS, TRANSPORTATION AND PUBLIC UTILITY USES
- LARGE SCALE GROUND MOUNTED SOLAR PHOTOVOLTAIC INSTALLATIONS

TOTAL SITE ACREAGE: 26.90± AC.
TOTAL DISTURBED AREA: 18.19± AC.

PROP. STORMWATER MANAGEMENT GRADING
APPROX. VOLUME OF CUT : 9,728± CY
APPROX. VOLUME OF FILL: 1,492± CY

PROP. BERM GRADING
APPROX. VOLUME OF FILL: 8,236± CY

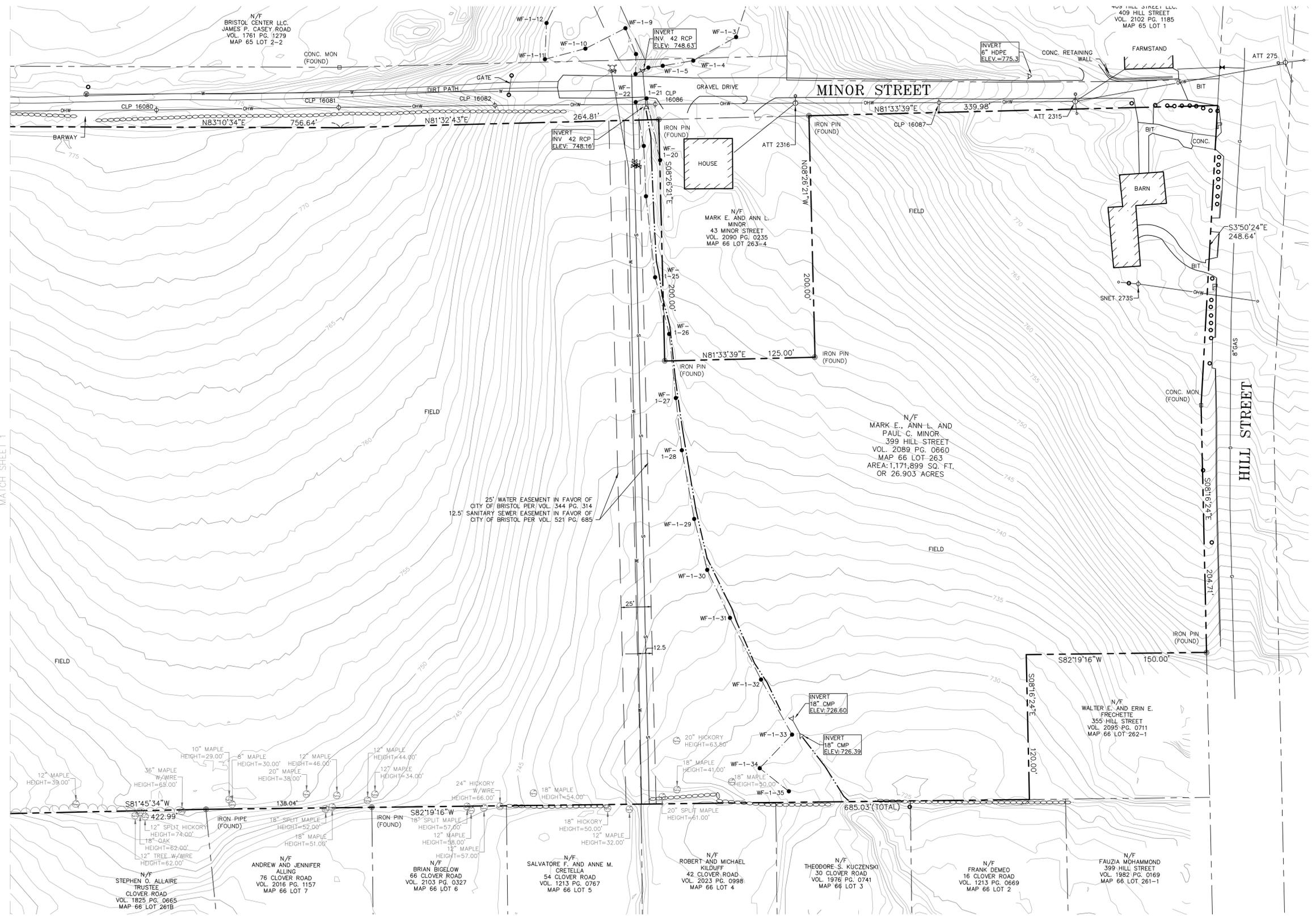
APPROX. OVERALL NET VOLUME: 0± CY OF CUT

PROP. GRAVEL ACCESS ROAD: 425± LINEAR FEET
PROP. FILTER SOCK: 3,210± LINEAR FEET
TREE CLEARING AREA: 0.06± ACRE
IMPERVIOUS AREA: 7,707± SQUARE FEET

USGS TOPOGRAPHIC MAP



SCALE : 1" = 2000± SOURCE: USGS 7.5 BRISTOL QUADRANGLE, CT 2012



LOCUS MAP
(N.T.S.)

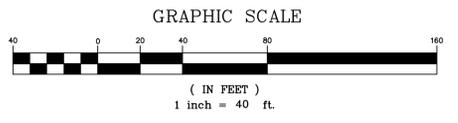
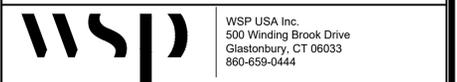
GENERAL NOTES
SEE SHEET THREE FOR GENERAL NOTES, MAP REFERENCES, AND CERTIFICATION.

LEGEND

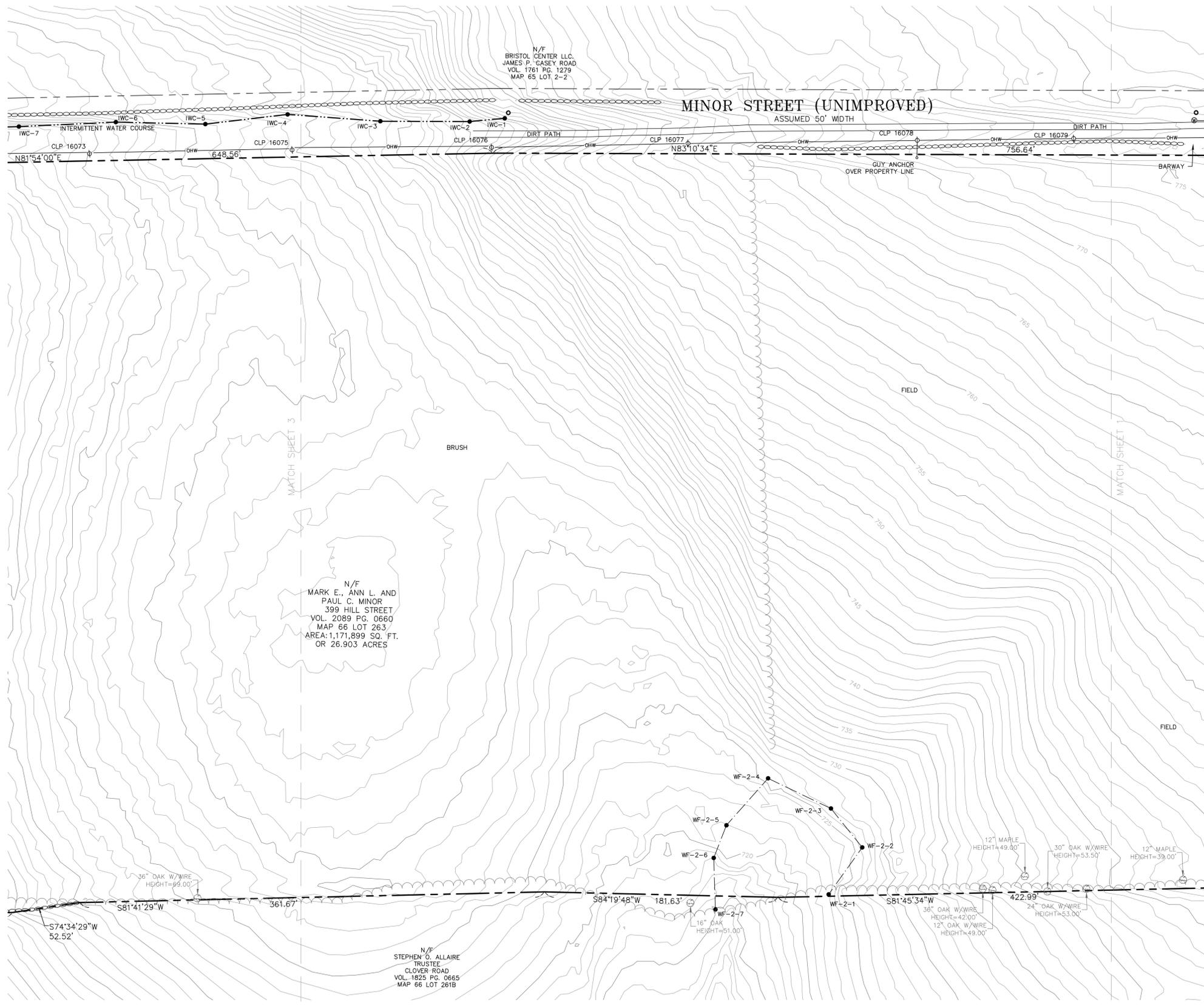
- CULVERT
- DRAIN MANHOLE
- GAS VALVE
- WATER MANHOLE
- WATER GATE
- FIRE HYDRANT
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- UTILITY POLE W/LIGHT AND TRANSFORMER
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- TREE LINE
- INTERMEDIATE CONTOURS
- INDEX CONTOURS
- WETLAND LINE
- INTERMITTENT WATER COURSE

REVISION	DATE	DESCRIPTION

PROPERTY AND TOPOGRAPHIC SURVEY
LAND OF
**MARK E., ANN L. AND
PAUL C. MINOR**
399 HILL STREET
BRISTOL, CONNECTICUT
PREPARED FOR
BRISTOL ONE SOLAR, LLC.



Drawn By	ZJM	Date	MARCH 4, 2020	Job No.	190379A
Surveyed By	ZJM / JWG	Scale	1" = 40'	Sheet No.	1 OF 3
Checked By	MG	Book No.	N/A		



LOCUS MAP
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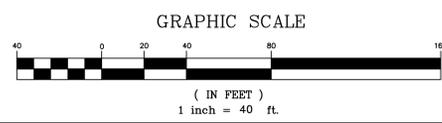
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wsp WSP USA Inc.
500 Winding Brook Drive
Glastonbury, CT 06033
860-659-0444

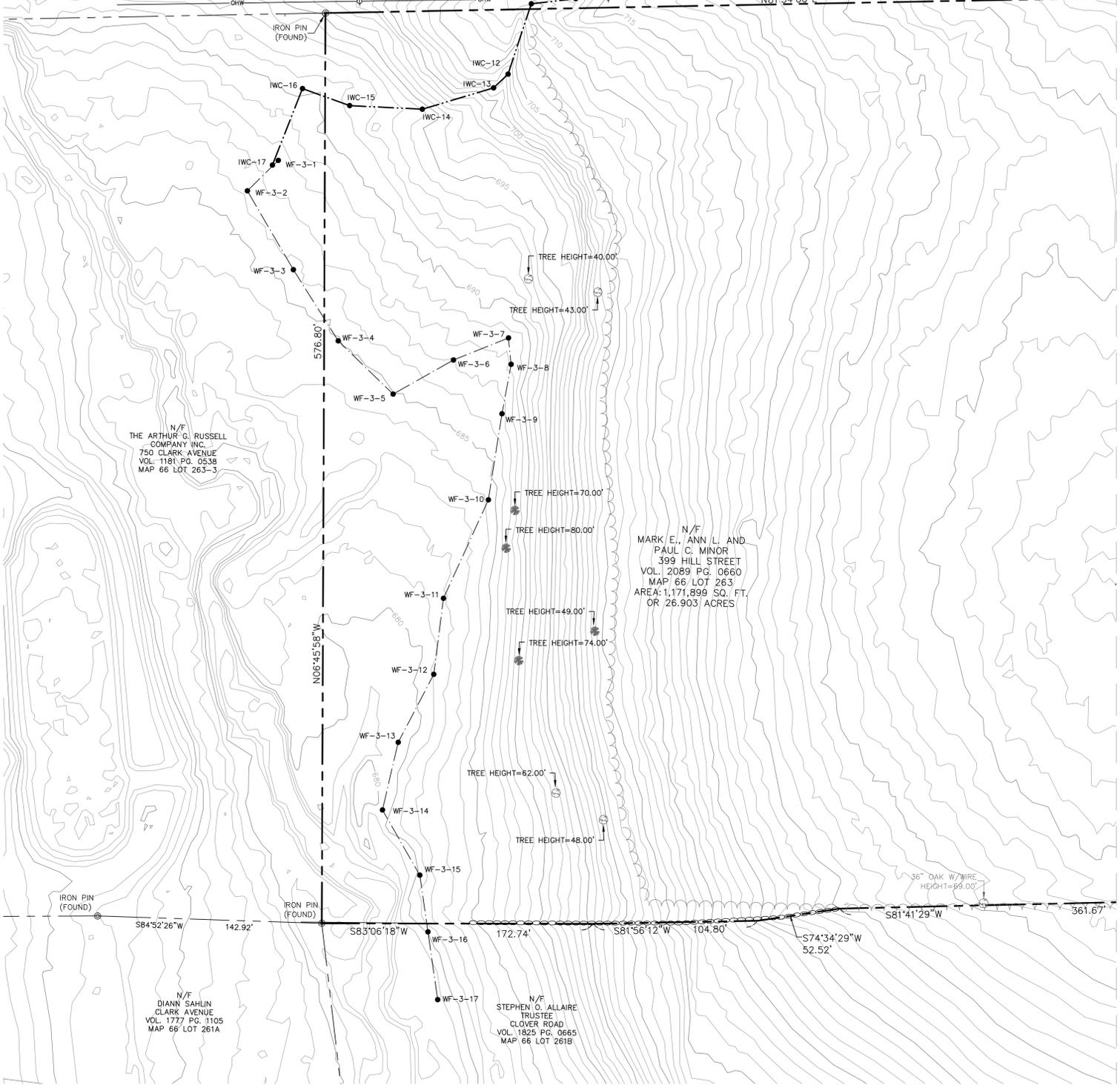
Drawn By	ZJM	Date	MARCH 4, 2020	Job No.	190379A
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MINOR STREET (UNIMPROVED)

ASSUMED 50' WIDTH

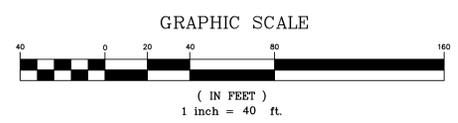


N/F THE ARTHUR G. RUSSELL COMPANY INC. 750 CLARK AVENUE VOL. 1181 PG. 0538 MAP 66 LOT 263-3

N/F MARK E. ANN L. AND PAUL C. MINOR 399 HILL STREET VOL. 2089 PG. 0660 MAP 66 LOT 263 AREA: 1,171,899 SQ. FT. OR 26.903 ACRES

N/F DIANN SAHLIN CLARK AVENUE VOL. 1777 PG. 1105 MAP 66 LOT 261A

N/F STEPHEN O. ALLAIRE TRUSTEE CLOVER ROAD VOL. 1825 PG. 0665 MAP 66 LOT 261B



GENERAL NOTES

- A) THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS.
- B) THIS PLAN CONFORMS TO HORIZONTAL ACCURACY CLASS A-2, AND TOPOGRAPHIC ACCURACY CLASS T-2.
- C) BOUNDARY DETERMINATION IS BASED UPON A RESURVEY.
- D) THE TYPE OF SURVEY PERFORMED IS A PROPERTY AND TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT LAND KNOWN AS 399 HILL STREET IN BRISTOL, CONNECTICUT.
- NORTH ARROW REFERS TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD83 EPOCH2011) AND IS BASED ON GPS OBSERVATIONS PERFORMED BY WSP USA.
- ELEVATIONS REFER TO NAVD 88.
- UNDERGROUND UTILITIES DEPICTED HAVE BEEN PLOTTED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES DEPICTED ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY EXPOSED THE UNDERGROUND UTILITIES. PER CONNECTICUT STATE LAW THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION.
- SUBJECT PARCEL IS LOCATED IN ZONE X, "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" AS DEPICTED ON FIRM MAP NUMBER 0902004457, PANEL NUMBER 455 OF 675, EFFECTIVE DATE, SEPTEMBER 26, 2008.
- WETLANDS DELINEATED AND SURVEYED BY ALL POINTS TECHNOLOGY ON NOVEMBER 18, 2019.
- CONTOURS DEPICTED ARE DERIVED FROM AVAILABLE PUBLIC DATA AND VERIFIED WITH GROUND SURVEY PERFORMED BY WSP, USA.

MAP REFERENCES

- "MAP OF LAND OWNED BY PAUL J. & JANE F. MINOR TO BE CONVEYED TO ARTHUR G. RUSSELL CO., INC., CLARK AVENUE, BRISTOL, CONNECTICUT," SCALE: 1"=40'; DATE: DECEMBER, 1995; PREPARED BY NASCIMBENI & JAHNE SURVEYORS, P.C.
- "PROPERTY SURVEY SHOWING PARCEL #263-4, LOT #263 HILL STREET, BRISTOL, CONNECTICUT, OWNED BY PAUL J. & JANE F. MINOR" SCALE: 1"=50'; DATE: AUGUST 2, 2001; PREPARED BY LEPORE ASSOCIATES, INC.
- "LOT LINE REVISION, PARCELS 65-1 & 66-263, PREPARED FOR PAUL C. MINOR, MARK E. MINOR, AND ANN L. MINOR, BRISTOL, CONNECTICUT" SCALE: 1"=40'; DATE: DECEMBER 31, 2018; AND PREPARED BY CLARK LAND SURVEYING, LLC.
- "PROPERTY/BOUNDARY SURVEY MAP DEPICTING LOT 261A, PROPOSED LOT 261B, AND LOT 264-1, LAND N/F DIANN SAHLIN, CLARK AVENUE, ALSO FRONTING ON CLOVER ROAD, BRISTOL, CONNECTICUT" SCALE: 1"=100'; DATE: NOVEMBER 20, 2009; PREPARED BY WINTERBOURNE LAND SERVICES.
- "MAP SHOWING PROPOSED SANITARY SEWER EASEMENT OVER EXISTING CITY WATER EASEMENT, CLOVER ROAD TO MINOR STREET," SCALE 1"=60'; DATE: AUGUST, 1966; PREPARED BY CITY OF BRISTOL ENGINEERING DEPARTMENT.
- BRISTOL WATER DEPT. MAP SHOWING RIGHT OF WAY, MARSH RD. TO CLOVER RD., BRISTOL, CONN." SCALE: 1"=200'; REVISED DATE: AUGUST 15, 1956; PREPARED BY CITY OF BRISTOL ENGINEERING DEPARTMENT.
- MAP OF FARMSTEAD MANOR DEVELOPED BY SAL-RAY DEVELOPMENT CO., BRISTOL, CONN." SCALE: 1"=40'; DATE: JANUARY 1, 1956; PREPARED BY L.J. BARIBAULT.
- SANITARY SEWER EASEMENT, PROPERTY OF ARGONAUT REALTY DIVISION OF GENERAL MOTORS CORP., MINOR STREET, BRISTOL, CONN." SCALE: 1"=40'; DATE: NOVEMBER 13, 1967; PREPARED BY MORTON S. FINE AND ASSOCIATES.
- "PROPERTY OF GENERAL MOTORS CORP. TO BE DEEDED TO THE CITY OF BRISTOL FOR THE RELOCATION OF MINOR STREET, BRISTOL, CONN." SCALE: 1"=100'; DATE: AUGUST 4, 1966; PREPARED BY MORTON S. FINE AND ASSOCIATES.
- "JAMES P. CASE ROAD STREET LINE MAP, HILL STREET TO CLARK AVENUE" SCALE: 1"=50'; DATE: APRIL, 1992; PREPARED BY DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING, CITY OF BRISTOL, CONNECTICUT.



LEGEND

- < CULVERT
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- ⊕ GAS VALVE
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- ⊕ WATER GATE
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BRISTOL ONE SOLAR, LLC.



TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Michael J. Garon
MICHAEL J. GARON L.S. #70366

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR.

Drawn By	ZJM	Date	MARCH 4, 2020	Job No.	190379A
Surveyed By	ZJM / JWG	Scale	1" = 40'	Sheet No.	3 OF 3
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Book No.	N/A				

GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH PROJECT DEVELOPER STANDARDS, CITY OF BRISTOL STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
- IF NO PROJECT CONSTRUCTION SPECIFICATION PACKAGE IS PROVIDED BY THE PROJECT DEVELOPER OR THEIR REPRESENTATIVE, THE CONTRACTOR SHALL COMPLY WITH THE MANUFACTURE, CITY OF BRISTOL, OR CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND BE IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- THE PROJECT DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL CITY OF BRISTOL CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- REFER TO PLANS, DETAILS AND REPORTS PREPARED BY ALL-POINTS TECHNOLOGY CORPORATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE PROJECT DEVELOPER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING/CONSTRUCTION. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE PROJECT DEVELOPERS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS PER PLANS AND SPECIFICATIONS TO THE PROJECT DEVELOPER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- SHOULD ANY UNKNOWN OR INCORRECTLY LOCATED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE PROJECT DEVELOPER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE PROJECT DEVELOPER OR OTHERS DURING OCCUPIED HOURS, EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE PROJECT DEVELOPER AND THE LOCAL MUNICIPALITY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COMPLY WITH OSHA CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OF PERSONNEL OR TO SUPERVISE SAFETY AND DO NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE PROJECT DEVELOPER OR CITY OF BRISTOL.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE PROJECT DEVELOPER AT THE END OF CONSTRUCTION.
- ALTERNATIVE METHODS AND PRODUCTS, OTHER THAN THOSE SPECIFIED, MAY BE USED IF REVIEWED AND APPROVED BY THE PROJECT DEVELOPER, ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING/CONSTRUCTION PROCESS.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "DIG SAFE" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "811" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.

SITE PLAN NOTES

- THE SURVEY WAS PROVIDED BY WSP USA INC. DATED MARCH 4, 2020.
- THERE ARE WETLAND AREAS LOCATED ON THE SITE AS INDICATED ON THE PLANS. WETLAND AREA BOUNDARIES WERE FLAGGED AND LOCATED BY ALL POINTS TECHNOLOGY, IN NOVEMBER 2019.
- THERE WILL BE GRADING ON SITE FOR THE INSTALLATION OF STORMWATER MANAGEMENT FEATURES.
- THE CONTRACTOR SHALL FOLLOW THE RECOMMENDED SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN OR SUBMIT AN ALTERNATE PLAN FOR APPROVAL BY THE ENGINEER AND/OR PERMITTING AGENCIES PRIOR TO THE START CONSTRUCTION. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR BVWS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. IN ADDITION, THE CONTRACTOR SHALL ADHERE TO "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY GOVERNMENT AGENCIES WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK, SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN 8" LIFTS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT 95% PERCENT OF OPTIMUM MOISTURE CONTENT.
- ALL DISTURBANCE INCURRED TO PUBLIC, MUNICIPAL, COUNTY, STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY OF BRISTOL AND STATE OF CONNECTICUT.
- IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE PROJECT DEVELOPER AND/OR PROJECT DEVELOPERS ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE PROJECT DEVELOPER AND/OR PROJECT DEVELOPERS ENVIRONMENTAL CONSULTANT.

UTILITY NOTES

- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF BRISTOL TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- REFER TO DRAWINGS BY PROJECT DEVELOPER FOR THE ONSITE ELECTRICAL DRAWINGS AND INTERCONNECTION TO EXISTING ELECTRICAL GRID. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT. THESE DETAILS ARE NOT INCLUDED IN THESE PLANS.
- UTILITY LOCATIONS AND PENETRATIONS ARE SHOWN FOR THE CONTRACTORS INFORMATION AND SHALL BE VERIFIED WITH THE ELECTRICAL ENGINEER AND THE PROJECT DEVELOPERS CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROP. SANITARY SEWERS AND WHERE PROP. STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE PROJECT DEVELOPER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE CITY OF BRISTOL.
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- RELOCATION OF UTILITY PROVIDER FACILITIES, SUCH AS POLES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
- THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
- CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.
- A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER. A 6-INCH TO 18-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROP. SANITARY PIPING.
- THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE PROJECT DEVELOPER AND CITY OF BRISTOL.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY, AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE INCLUDING SERVICES. CONTACT "DIG SAFE" AT 811 72 HOURS PRIOR TO CONSTRUCTION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY AND STORM DRAINAGE LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROP. UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
- THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND REPAIR PAVEMENTS AS NECESSARY.
- ELECTRIC DRAWINGS AND REQUIREMENTS ARE NOT INCLUDED AS PART OF THIS DRAWING SET AND SHOULD BE OBTAINED FROM THE PROJECT DEVELOPER.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE PROJECT DEVELOPER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE PROJECT DEVELOPER, CITY OF BRISTOL, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.

GENERAL LEGEND		
	EXISTING	PROPOSED
PROPERTY LINE	=====	
BUILDING SETBACK	-----	
SOLAR SETBACK	-----	
EASEMENT	=====	
TREE LINE		~~~~~
WETLAND	~~~~~	
WETLAND BUFFER	-----	
VERNAL POOL	=====	
VERNAL POOL BUFFER	-----	
WATERCOURSE	=====	
WATERCOURSE BUFFER	-----	
MAJOR CONTOUR	-----	=====
MINOR CONTOUR	-----	=====
UNDERGROUND ELECTRIC		--- E --- E ---
OVERHEAD ELECTRIC		--- OH --- OH ---
GAS LINE		--- G --- G ---
WATER LINE		--- W --- W ---
BASIN		--->--->--->--->---
SWALE		--->--->--->---
FENCE		--- X --- X --- X ---
LIMIT OF DISTURBANCE		--- LOD ---
LIMIT OF CLEARING AND GRUBBING		--- LCG ---
FILTER SOCK		--- FS --- FS ---
SILT FENCE		--- SF --- SF ---
BAFFLE		--- --- --- ---

BRISTOL SOLAR ONE, LLC

**150 TRUMBULL STREET
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HARTFORD, CT, 06103**



567 VAUXHAUL STREET EXTENSION - SUITE 311
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DESIGN PROFESSIONAL OF RECORD

**PROF: BRADLEY J. PARSONS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
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MINOR
ADDRESS: 399 HILL STREET
BRISTOL, CT**

BRISTOL SOLAR ONE, LLC

**SITE 399 HILL STREET
ADDRESS: BRISTOL, CT**

APT FILING NUMBER: CT590220

DRAWN BY: JT

DATE: 12/18/20 CHECKED BY: BJP

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-1



ENVIRONMENTAL NOTES RESOURCE PROTECTION MEASURES

WETLAND, EASTERN BOX TURTLE AND BOBOLINK PROTECTION PROGRAM

AS A RESULT OF THE PROJECT'S LOCATION IN THE VICINITY OF SENSITIVE WETLANDS AND WATERCOURSES AND RARE SPECIES HABITAT, THE FOLLOWING BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED BY THE CONTRACTOR TO AVOID UNINTENTIONAL IMPACTS TO THESE RESOURCES.

IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR COMPLIES WITH THE REQUIREMENT FOR IMPLEMENTATION OF THESE PROTECTIVE MEASURES AND THE EDUCATION OF ITS EMPLOYEES AND SUBCONTRACTORS PERFORMING WORK ON THE PROJECT SITE. THESE WETLAND AND SPECIES PROTECTION MEASURES SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES AND, TO FURTHER PROTECT WETLANDS AND WATERCOURSES, UNTIL PERMANENT STABILIZATION OF SITE SOILS HAS OCCURRED.

EASTERN BOX TURTLE (*TERRAPENNE CAROLINA CAROLINA*) AND BOBOLINK (*DOLICHONYX ORYZIVORUS*), STATE-LISTED SPECIAL CONCERN SPECIES AFFORDED PROTECTION UNDER THE CONNECTICUT ENDANGERED SPECIES ACT, ARE KNOWN TO OCCUR WITHIN THE VICINITY OF THE PROJECT. THE TURTLE AND BOBOLINK PROTECTION MEASURES INCLUDED HEREIN SATISFY REQUIREMENTS FROM THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION ("DEEP") WILDLIFE DIVISION IN ACCORDANCE WITH THEIR NATURAL DIVERSITY DATA BASE ("NDDB") DETERMINATION LETTER (NO. 202004621) DATED FEBRUARY 27, 2020; THIS DETERMINATION IS VALID UNTIL FEBRUARY 27, 2022 PROVIDED THE SCOPE OF THE PROJECT HAS NOT CHANGED AND WORK HAS BEGUN ON THE PROJECT PRIOR TO THE EXPIRATION DATE.

IT IS RECOMMENDED THAT WORK, PARTICULARLY TREE REMOVAL/LAND CLEARING ACTIVITIES, SHOULD OCCUR WHEN THESE TURTLES ARE ACTIVE (APRIL 1 THROUGH NOVEMBER 1). CONDUCTING LAND CLEARING WHILE TURTLES ARE ACTIVE WILL ALLOW THE ANIMAL TO MOVE OUT OF HARMS WAY AND MINIMIZE MORTALITY TO HIBERNATING INDIVIDUALS; HIBERNATION HABITAT TYPICALLY INCLUDES WOODLANDS, WOODLAND EDGES AND FORESTED WETLANDS.

TO AVOID IMPACT TO BOBOLINK, IT IS RECOMMENDED THAT WORK BE PERFORMED OUTSIDE OF THIS BIRDS BREEDING SEASON (MAY 20 THROUGH AUGUST 20).

ALL-POINTS TECHNOLOGY CORPORATION, P.C. ("APT") WILL SERVE AS THE ENVIRONMENTAL MONITOR FOR THIS PROJECT TO ENSURE THAT THESE PROTECTION MEASURES ARE IMPLEMENTED PROPERLY. APT WILL PROVIDE AN EDUCATION SESSION FOR THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES ON EASTERN BOX TURTLE, BOBOLINK AND NEARBY SENSITIVE WETLAND RESOURCES THAT MAY BE ENCOUNTERED DUE TO THE PROJECT'S LOCATION WITHIN AND ADJACENT TO POTENTIALLY SENSITIVE HABITAT. THE CONTRACTOR SHALL CONTACT DEAN GUSTAFSON, SENIOR BIOLOGIST AT APT, AT LEAST 5 BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. MR. GUSTAFSON CAN BE REACHED BY PHONE AT (860) 552-2033 OR VIA EMAIL AT DGUSTAFSON@ALLPOINTSTECH.COM.

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

1. ISOLATION MEASURES & SEDIMENTATION AND EROSION CONTROLS

- a. PLASTIC NETTING USED IN A VARIETY OF EROSION CONTROL PRODUCTS (I.E., EROSION CONTROL BLANKETS, FIBER ROLLS (WATTLES), REINFORCED SILT FENCE) HAS BEEN USED TO ENTANGLE WILDLIFE, INCLUDING REPTILES, AMPHIBIANS, BIRDS AND SMALL MAMMALS, BUT PARTICULARLY SNAKES. NO PERMANENT EROSION CONTROL PRODUCTS OR REINFORCED SILT FENCE WILL BE USED ON THE PROJECT. TEMPORARY EROSION CONTROL PRODUCTS WILL USE EITHER EROSION CONTROL BLANKETS AND FIBER ROLLS COMPOSED OF PROCESSED FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX (NETLESS) OR NETTING COMPOSED OF PLANAR WOVEN NATURAL BIODEGRADABLE FIBER TO AVOID/MINIMIZE WILDLIFE ENTANGLEMENT.
- b. INSTALLATION OF SEDIMENTATION AND EROSION CONTROLS, REQUIRED FOR EROSION CONTROL COMPLIANCE AND CREATION OF A BARRIER TO POSSIBLE MIGRATING/DISPERSING TURTLES, SHALL BE PERFORMED BY THE CONTRACTOR FOLLOWING CLEARING ACTIVITIES AND PRIOR TO ANY EARTHWORK. THE ENVIRONMENTAL MONITOR WILL INSPECT THE WORK ZONE AREA PRIOR TO AND FOLLOWING EROSION CONTROL BARRIER INSTALLATION TO ENSURE THE AREA IS FREE OF EASTERN BOX TURTLE AND DOCUMENT BARRIERS HAVE BEEN SATISFACTORILY INSTALLED. THE INTENT OF THE BARRIER IS TO SEGREGATE THE MAJORITY OF THE WORK ZONE AND ISOLATE IT FROM FORAGING/MIGRATING/DISPERSING TURTLES, SNAKES AND OTHER HERPETOFAUNA. OFTENTIMES COMPLETE ISOLATION OF A WORK ZONE IS NOT FEASIBLE DUE TO ACCESSIBILITY NEEDS AND LOCATIONS OF STAGING/MATERIAL STORAGE AREAS, ETC. ALTHOUGH THE BARRIERS MAY NOT COMPLETELY ISOLATE THE WORK ZONE, THEY WILL BE POSITIONED TO DEFLECT MIGRATING/DISPERSAL ROUTES AWAY FROM THE WORK ZONE TO MINIMIZE POTENTIAL ENCOUNTERS WITH TURTLES, SNAKES AND OTHER HERPETOFAUNA.
- c. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTIONS OF THE SEDIMENTATION AND EROSION CONTROLS FOR TEARS OR BREECHES AND ACCUMULATION LEVELS OF SEDIMENT, PARTICULARLY FOLLOWING STORM EVENTS THAT GENERATE A DISCHARGE. APT WILL PROVIDE PERIODIC INSPECTIONS OF THE SEDIMENTATION AND EROSION CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES ONLY AS IT PERTAINS TO THEIR FUNCTION AS ISOLATION MEASURES FOR THE PROTECTION OF RARE SPECIES. THIRD PARTY MONITORING OF SEDIMENTATION AND EROSION CONTROLS WILL BE PERFORMED BY OTHER PARTIES, AS NECESSARY, UNDER APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS.
- d. THE EXTENT OF THE SEDIMENTATION AND EROSION CONTROLS WILL BE AS SHOWN ON THE SITE PLANS. THE CONTRACTOR SHALL HAVE ADDITIONAL SEDIMENTATION AND EROSION CONTROLS STOCKPILED ON SITE SHOULD FIELD OR CONSTRUCTION CONDITIONS WARRANT EXTENDING THE CONTROLS AS DIRECTED BY APT OR OTHER REGULATORY AGENCIES.
- e. NO EQUIPMENT, VEHICLES OR CONSTRUCTION MATERIALS SHALL BE STORED OUTSIDE OF THE SEDIMENTATION AND EROSION CONTROLS WITHIN 100 FEET OF WETLANDS OR WATERCOURSES.
- f. ALL SEDIMENTATION AND EROSION CONTROLS SHALL BE REMOVED WITHIN 30 DAYS OF COMPLETION OF WORK AND PERMANENT STABILIZATION OF SITE SOILS SO THAT REPTILE AND AMPHIBIAN MOVEMENT BETWEEN UPLANDS AND WETLANDS IS NOT RESTRICTED.

ENVIRONMENTAL NOTES RESOURCE PROTECTION MEASURES (CONT.)

2. CONTRACTOR EDUCATION

- a. PRIOR TO WORK ON SITE, THE CONTRACTOR SHALL ATTEND AN EDUCATIONAL SESSION AT THE PRE-CONSTRUCTION MEETING WITH APT. THIS ORIENTATION AND EDUCATIONAL SESSION WILL CONSIST OF AN INTRODUCTORY MEETING WITH APT PROVIDING PHOTOS OF EASTERN BOX TURTLE EMPHASIZING THE NON-AGGRESSIVE NATURE OF THESE SPECIES AND PHOTOS OF BOBOLINK, THE IMPORTANCE OF PROTECTING THESE ANIMALS IF THEY ARE ENCOUNTERED AND THE NEED TO FOLLOW PROTECTIVE MEASURES AS DESCRIBED IN SECTION 4 BELOW. WORKERS WILL ALSO BE PROVIDED INFORMATION REGARDING THE IDENTIFICATION OF OTHER TURTLES, SNAKES AND COMMON HERPETOFAUNA SPECIES THAT COULD BE ENCOUNTERED. THE IMPORTANCE OF PROTECTING NEARBY WETLAND RESOURCES WILL BE STRESSED AS PART OF THIS EDUCATIONAL SESSION.
- b. THE EDUCATION SESSION WILL ALSO FOCUS ON MEANS TO DISCRIMINATE BETWEEN THE SPECIES OF CONCERN AND OTHER NATIVE SPECIES TO AVOID UNNECESSARY "FALSE ALARMS". ENCOUNTERS WITH ANY SPECIES OF TURTLES OR SNAKES WILL BE DOCUMENTED.
- c. THE CONTRACTOR WILL BE PROVIDED WITH CELL PHONE AND EMAIL CONTACTS FOR APT PERSONNEL TO IMMEDIATELY REPORT ANY ENCOUNTERS WITH EASTERN BOX TURTLE, BOBOLINK OR OTHER SPECIES. EDUCATIONAL POSTER MATERIALS WILL BE PROVIDED BY APT AND DISPLAYED ON THE JOB SITE TO MAINTAIN WORKER AWARENESS AS THE PROJECT PROGRESSES.
- d. IF AN EASTERN BOX TURTLE OR BOBOLINK IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL WORK, AVOID DISTURBANCE OF THE ANIMAL AND CONTACT APT.

3. PETROLEUM MATERIALS STORAGE AND SPILL PREVENTION

- a. CERTAIN PRECAUTIONS ARE NECESSARY TO STORE PETROLEUM MATERIALS, REFUEL AND CONTAIN AND PROPERLY CLEAN UP ANY INADVERTENT FUEL OR PETROLEUM (I.E., OIL, HYDRAULIC FLUID, ETC.) SPILL TO AVOID POSSIBLE IMPACT TO NEARBY HABITATS.
- b. A SPILL CONTAINMENT KIT CONSISTING OF A SUFFICIENT SUPPLY OF ABSORBENT PADS AND ABSORBENT MATERIAL WILL BE MAINTAINED BY THE CONTRACTOR AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT. IN ADDITION, A WASTE DRUM WILL BE KEPT ON SITE TO CONTAIN ANY USED ABSORBENT PADS/MATERIAL FOR PROPER AND TIMELY DISPOSAL OFF SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- c. THE FOLLOWING PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING RESTRICTIONS AND SPILL RESPONSE PROCEDURES WILL BE ADHERED TO BY THE CONTRACTOR.
 - c.1. PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING
 - c.1.1. REFUELING OF VEHICLES OR MACHINERY SHALL OCCUR A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES AND SHALL TAKE PLACE ON AN IMPERVIOUS PAD WITH SECONDARY CONTAINMENT DESIGNED TO CONTAIN FUELS.
 - c.1.2. ANY FUEL OR HAZARDOUS MATERIALS THAT MUST BE KEPT ON SITE SHALL BE STORED ON AN IMPERVIOUS SURFACE UTILIZING SECONDARY CONTAINMENT A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES.
 - c.2. INITIAL SPILL RESPONSE PROCEDURES
 - c.2.1. STOP OPERATIONS AND SHUT OFF EQUIPMENT.
 - c.2.2. REMOVE ANY SOURCES OF SPARK OR FLAME.
 - c.2.3. CONTAIN THE SOURCE OF THE SPILL.
 - c.2.4. DETERMINE THE APPROXIMATE VOLUME OF THE SPILL.
 - c.2.5. IDENTIFY THE LOCATION OF NATURAL FLOW PATHS TO PREVENT THE RELEASE OF THE SPILL TO SENSITIVE NEARBY WATERWAYS OR WETLANDS.
 - c.2.6. ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL.
 - c.3. SPILL CLEAN UP & CONTAINMENT
 - c.3.1. OBTAIN SPILL RESPONSE MATERIALS FROM THE ON-SITE SPILL RESPONSE KIT. PLACE ABSORBENT MATERIALS DIRECTLY ON THE RELEASE AREA.
 - c.3.2. LIMIT THE SPREAD OF THE SPILL BY PLACING ABSORBENT MATERIALS AROUND THE PERIMETER OF THE SPILL.
 - c.3.3. ISOLATE AND ELIMINATE THE SPILL SOURCE.
 - c.3.4. CONTACT THE APPROPRIATE LOCAL, STATE AND/OR FEDERAL AGENCIES, AS NECESSARY.
 - c.3.5. CONTACT A DISPOSAL COMPANY TO PROPERLY DISPOSE OF CONTAMINATED MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
 - c.4. REPORTING
 - c.4.1. COMPLETE AN INCIDENT REPORT.
 - c.4.2. SUBMIT A COMPLETED INCIDENT REPORT TO THE APPROPRIATE MUNICIPAL OFFICIAL, CONNECTICUT SITING COUNCIL AND OTHER APPLICABLE LOCAL, STATE AND FEDERAL OFFICIALS.

4. HERBICIDE AND PESTICIDE RESTRICTIONS

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

ENVIRONMENTAL NOTES RESOURCE PROTECTION MEASURES (CONT.)

5. EASTERN BOX TURTLE PROTECTIVE MEASURES

- a. LIMIT TREE REMOVAL/LAND CLEARING ACTIVITIES TO THE TURTLE'S ACTIVE SEASON (APRIL 1ST TO NOVEMBER 1ST) TO ALLOW THE ANIMAL TO MOVE OUT OF HARMS WAY AND MINIMIZE MORTALITY TO HIBERNATING INDIVIDUALS.
 - b. INSTALL ISOLATION BARRIERS (E.G., SILT FENCE, ANIMAL EXCLUSIONARY FENCING, ETC.) PRIOR TO THE START OF TREE REMOVAL OPERATIONS.
 - c. APT WILL SWEEP THE TREE REMOVAL AREA FOR TURTLES PRIOR TO TREES BEING REMOVED.
 - d. DURING THE TURTLE ACTIVE PERIOD AND PRIOR TO THE START OF CONSTRUCTION EACH DAY, THE CONTRACTOR SHALL SEARCH THE ENTIRE WORK AREA FOR TURTLES.
 - e. IF A TURTLE IS FOUND DURING THE ACTIVE PERIOD, IT SHALL BE IMMEDIATELY MOVED, UNHARMED, BY CAREFULLY GRASPED IN BOTH HANDS, ONE ON EACH SIDE OF THE SHELL, BETWEEN THE TURTLE'S FORELIMBS AND THE HIND LIMBS, AND PLACED JUST OUTSIDE OF THE ISOLATION BARRIER IN THE SAME APPROXIMATE DIRECTION IT WAS WALKING.
 - f. DURING THE ACTIVE TURTLE PERIOD, SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR DURING EARLY MORNING AND EVENING HOURS SO THAT POSSIBLE BASKING OR FORAGING TURTLES ARE NOT HARMED BY CONSTRUCTION ACTIVITIES.
 - g. THE CONTRACTOR SHALL BE PARTICULARLY DILIGENT DURING THE MONTH OF JUNE WHEN TURTLES ARE ACTIVELY SELECTING NESTING SITES WHICH RESULTS IN AN INCREASE IN TURTLE MOVEMENT ACTIVITY.
- ### 6. BOBOLINK PROTECTIVE MEASURES

- a. RESTRICT CONSTRUCTION ACTIVITIES OUTSIDE OF THE BOBOLINK'S BREEDING SEASON (MAY 20 TO AUGUST 20). BRISTOL SOLAR ONE, LLC CURRENTLY ANTICIPATES THAT CONSTRUCTION WILL START AFTER AUGUST 20, 2020 BUT DURING THE LATE SUMMER/FALL 2020 SEASON, WHICH WOULD AVOID ANY POTENTIAL BOBOLINK CONFLICTS.
- b. IF CONSTRUCTION STARTS BEFORE, BUT IS ANTICIPATED TO EXTEND BEYOND, MAY 20TH (INTO THE BOBOLINK BREEDING SEASON), APT WILL PERFORM A BREEDING BIRD SURVEY STARTING IN LATE MAY WITH PERIODIC SURVEYS THROUGHOUT THE DURATION OF CONSTRUCTION TO DOCUMENT NO BOBOLINK NESTS ARE BEING ESTABLISHED. IF AN ACTIVE NEST IS IDENTIFIED, A 400-FOOT BUFFER RESTRICTING ANY DISTURBANCE WOULD BE ESTABLISHED AROUND THE NEST UNTIL THE JUVENILE BIRDS HAVE FLEDGED.
- c. IF CONSTRUCTION IS PROPOSED TO START AFTER MAY 20TH BUT BEFORE AUGUST 20TH, A BOBOLINK BREEDING SURVEY WOULD BE PERFORMED BY APT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. IF AN ACTIVE NEST IS IDENTIFIED, A 400-FOOT BUFFER RESTRICTING ANY DISTURBANCE WOULD BE ESTABLISHED AROUND THE NEST UNTIL THE JUVENILE BIRDS HAVE FLEDGED. IF NO NEST IS FOUND, THE RULES NOTED IN B. ABOVE WOULD APPLY.
- d. FOR MAINTENANCE OF THE FACILITY, MOWING ACTIVITIES SHOULD BE RESTRICTED OUTSIDE OF THE ACTIVE BOBOLINK BREEDING SEASON (MAY 20 TO AUGUST 20).

7. REPORTING

- a. DAILY COMPLIANCE MONITORING REPORTS (BRIEF NARRATIVE AND APPLICABLE PHOTOS) DOCUMENTING EACH APT INSPECTION WILL BE SUBMITTED BY APT TO BRISTOL SOLAR ONE, LLC FOR COMPLIANCE VERIFICATION. ANY OBSERVATIONS OF TURTLES, BOBOLINK, WETLAND IMPACTS, OR CORRECTIVE ACTIONS WILL BE INCLUDED IN THE REPORTS. THE REPORTS WILL DOCUMENT IMPLEMENTATION OF THIS WETLAND, EASTERN BOX TURTLE AND BOBOLINK PROTECTION PROGRAM, MONITORING OBSERVATIONS AND ANY SPECIES OBSERVATIONS. BRISTOL SOLAR ONE, LLC WILL PROVIDE COPIES OF THE COMPLIANCE MONITORING REPORTS TO THE CONNECTICUT SITING COUNCIL FOR COMPLIANCE VERIFICATION.
- b. ANY OBSERVATIONS OF EASTERN BOX TURTLE, BOBOLINK OR ANY OTHER RARE SPECIES WILL BE REPORTED TO CTDEEP BY APT ON THE APPROPRIATE SPECIAL ANIMAL REPORTING FORM, WITH PHOTO-DOCUMENTATION (IF POSSIBLE) AND SPECIFIC INFORMATION ON THE LOCATION AND DISPOSITION OF THE ANIMAL.

BRISTOL SOLAR ONE, LLC

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DESIGN PROFESSIONAL OF RECORD

**PROF: BRADLEY J. PARSONS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
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BRISTOL SOLAR ONE, LLC

**SITE 399 HILL STREET
ADDRESS: BRISTOL, CT**

APT FILING NUMBER: CT590220

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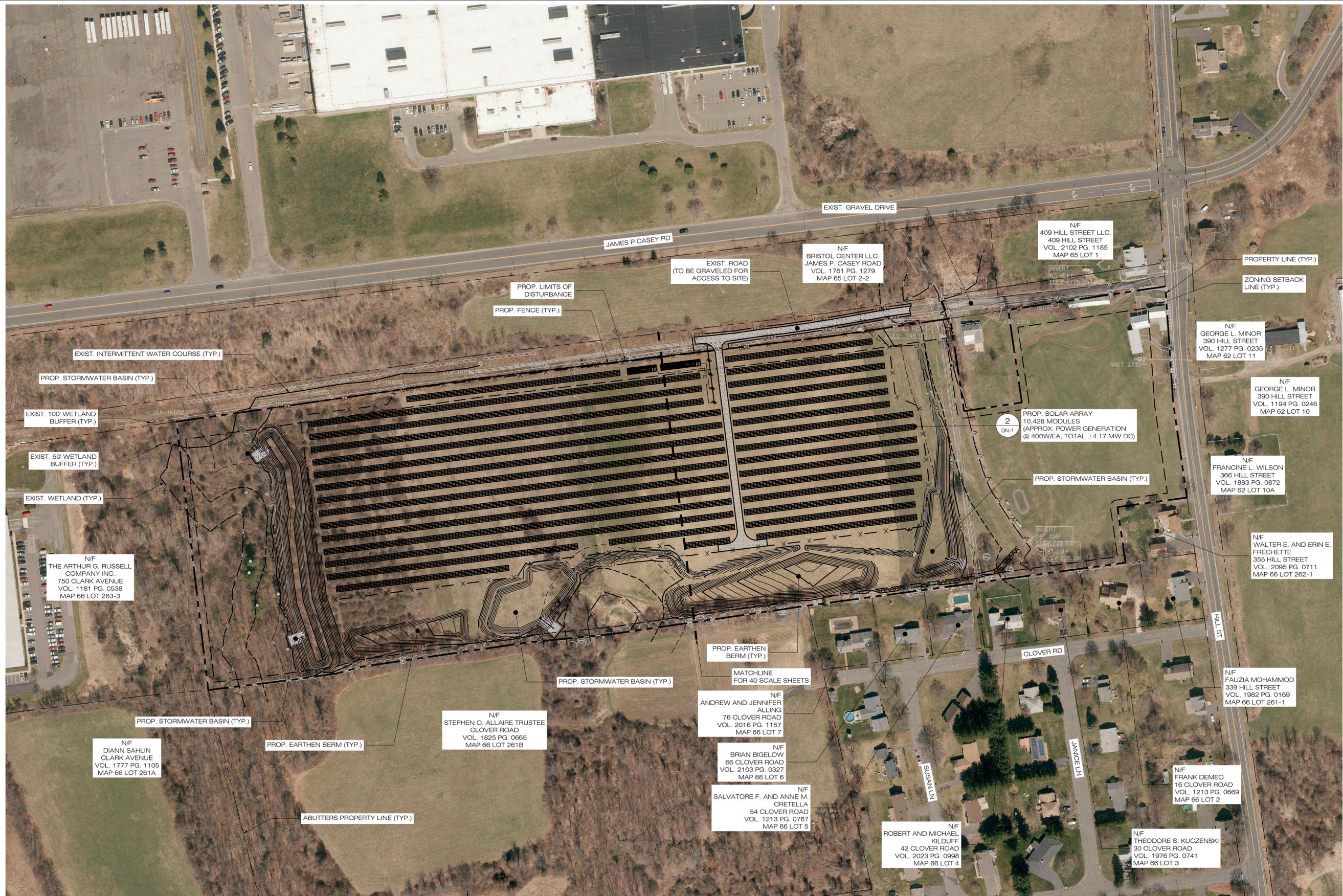
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BRISTOL SOLAR ONE, LLC
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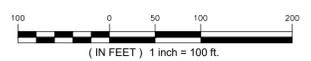
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SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
OP-1

1 OVERALL LOCUS MAP
 SCALE: 1" = 100'-0"



EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL PLAN NOTES

- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE CITY OF BRISTOL, PERMITTEE, AND/OR SWPCP MONITOR. ALL PERIMETER SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. SEE CONSTRUCTION SEQUENCE FOR ADDITIONAL INFORMATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS, AS REQUIRED, AND AS DIRECTED BY THE PERMITTEE AND/OR SWPCP MONITOR. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- A BOND OR LETTER OF CREDIT MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.
- THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS AS NECESSARY IN A TIMELY MANNER.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, COMPOST FILTER SOCK, EROSION CONTROL BLANKET, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING, ORANGE SAFETY FENCE, CONSTRUCTION TAPE, OR EQUIVALENT FENCING/TAPE. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- CONSTRUCTION ENTRANCES (ANTI-TRACKING PADS) SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION IF REQUIRED. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED. CONTRACTOR SHALL ENSURE THAT ALL VEHICLES EXITING THE SITE ARE PASSING OVER THE ANTI-TRACKING PADS PRIOR TO EXISTING.
- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS. ALL SLOPES SHALL BE SEEDED AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR MUNICIPALITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDDED WITH TACKIFIER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- SEEDING MIXTURES SHALL BE NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX (SEE SITE DETAILS SHEET DN-1), OR APPROVED EQUAL BY OWNER.

CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR		
E&S MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
COMPOST FILTER SOCK	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED.
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TOPSOIL/BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
TEMPORARY SEDIMENT BASIN (W/ BAFFLES)	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.5"	REMOVE SEDIMENT ONCE IT HAS ACCUMULATED TO ONE HALF OF MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATERING AS NEEDED. RESTORE TRAP TO ORIGINAL DIMENSIONS. REPAIR/REPLACE BAFFLES WHEN FAILURE OR DETERIORATION IS OBSERVED.
TEMPORARY SEDIMENT TRAP (W/ BAFFLES)	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.5"	REMOVE SEDIMENT ONCE IT HAS ACCUMULATED TO ONE HALF OF MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATERING AS NEEDED. RESTORE TRAP TO ORIGINAL DIMENSIONS. REPAIR/REPLACE BAFFLES WHEN FAILURE OR DETERIORATION IS OBSERVED.

SEDIMENT & EROSION CONTROL NARRATIVE

- THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT, INCLUDING THE CLEARING, GRUBBING AND GRADING OF APPROXIMATELY 18.19± ACRES OF EXISTING LOT.

THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:

- CLEARING, GRUBBING, AND GRADING OF EXISTING LOT.
 - CONSTRUCTION OF 11,024 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.
 - THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT VEGETATIVE TREATMENTS.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 18.19± ACRE OF THE SITE BEING DISTURBED WITH NEGLIGIBLE INCREASE IN THE IMPERVIOUS AREA OF THE SITE, AS ALL ACCESS THROUGH THE SITE WILL BE GRAVEL. IMPERVIOUS AREAS ARE LIMITED TO THE CONCRETE PADS FOR ELECTRICAL EQUIPMENT.
 - THE PROJECT SITE, AS MAPPED IN THE SOIL SURVEY OF STATE OF CONNECTICUT (NRCS, VERSION 18, DEC 6, 2018), CONTAINS TYPE 4 (HYDROLOGIC SOIL GROUP B), 45B, 84B, AND 84C (HYDROLOGIC SOIL GROUP C), AND 3 (HYDROLOGIC SOIL GROUP D) SOILS. A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN COMPLETED.
 - IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 3-4 MONTHS.
 - REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
 - STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL AND THE CITY OF BRISTOL STANDARDS, TO THE EXTENT POSSIBLE AND PRACTICABLE FOR THIS PROJECT ON THIS SITE. EROSION AND SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE CONNECTICUT EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, LATEST EDITION.
 - DETAILS FOR THE TYPICAL STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON THE PLAN SHEETS OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
 - CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION:
 - STAGED CONSTRUCTION;
 - MINIMIZE THE DISTURBED AREAS TO THE EXTENT PRACTICABLE DURING CONSTRUCTION;
 - STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT MEASURES AS SOON AS POSSIBLE, BUT NO LATER THAN 7-DAYS FOLLOWING DISTURBANCE;
 - MINIMIZE IMPERVIOUS AREAS;
 - UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
 - THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:
 - STORMWATER MANAGEMENT REPORT DATED DECEMBER 2020.
 - SWPCP DATED DECEMBER 2020.

SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS. SHOULD THE CONTRACTOR ALTER THE CONSTRUCTION SEQUENCE OR ANY EROSION AND SEDIMENTATION CONTROL MEASURES THEY SHALL MODIFY THE STORMWATER POLLUTION CONTROL PLAN ("SWPCP") AS REQUIRED BY THE GENERAL PERMIT. MAJOR CHANGES IN SEQUENCING AND/OR METHODS MAY REQUIRE REGULATORY APPROVAL PRIOR TO IMPLEMENTATION.

- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF DISTURBANCE IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNERS REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.

- NOTIFY CALL BEFORE YOU DIG AT 1-800-922-4455, AS REQUIRED, PRIOR TO THE START OF CONSTRUCTION.

PHASE 1

- REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE/S.
- CLEAR ONLY AS NEEDED TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION. ALL WETLAND AREAS SHALL BE PROTECTED BEFORE MAJOR CONSTRUCTION BEGINS.
- INSTALL PERIMETER EROSION CONTROL.
- INSTALL EROSION CONTROL BELOW EQUIPMENT AREA AND INSTALL CONCRETE EQUIPMENT PADS AND CONDUITS PROTECTED BY THESE CONTROLS.
- INSTALL TEMPORARY SEDIMENT BASIN 3 AND ASSOCIATED SWALES. UPON COMPLETION OF THE INSTALLATION AND STABILIZATION OF THE BASIN AND SWALES, PHASE 2 WORK UP GRADIENT CAN PROCEED.
- INSTALL TEMPORARY SEDIMENT BASIN 2 AND ASSOCIATED SWALES. UPON COMPLETION OF THE INSTALLATION AND STABILIZATION OF THE BASIN AND SWALES, PHASE 2 WORK UP GRADIENT CAN PROCEED.
- INSTALL TEMPORARY SEDIMENT BASIN 1. UPON COMPLETION OF THE INSTALLATION AND STABILIZATION OF THE BASIN, PHASE 2 WORK UP GRADIENT CAN PROCEED.

PHASE 2

- UPON COMPLETION OF THE INSTALLATION OF EACH OF THE TEMPORARY SEDIMENT BASINS, THE AREA ABOVE THE BASIN CAN HAVE THE REMAINING AFRAY AREA CLEARING AND GRUBBING COMPLETED AS REQUIRED. REMOVE CUT WOOD AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE IN ACCORDANCE WITH APPLICABLE LAWS.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
- INSTALL REMAINING ELECTRICAL CONDUIT.
- INSTALL RACKING POSTS FOR GROUND MOUNTED SOLAR PANELS.
- INSTALL GROUND MOUNTED SOLAR PANELS AND COMPLETE ELECTRICAL INSTALLATION.
- AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF THE SOLAR PANELS, COMPLETE REMAINING SITE WORK, INCLUDING ANY REQUIRED LANDSCAPE SCREENING, AND STABILIZE ALL DISTURBED AREAS.
- FINE GRADE, RAKE, SEED AND MULCH ALL REMAINING DISTURBED AREAS.
- AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE PERMITTEE AND CITY OF BRISTOL AGENT, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.

BRISTOL SOLAR ONE, LLC

150 TRUMBULL STREET
4TH FLOOR
HARTFORD, CT, 06103



567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	12/18/20	CSC D&M PLANS: BJP
1		
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5		
6		

DESIGN PROFESSIONAL OF RECORD

PROF: BRADLEY J. PARSONS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE 311
WATERFORD, CT 06385

OWNER: MARK E., ANN L. & PAUL C. MINOR
ADDRESS: 399 HILL STREET
BRISTOL, CT

BRISTOL SOLAR ONE, LLC

SITE 399 HILL STREET
ADDRESS: BRISTOL, CT

APT FILING NUMBER: CT590220

DRAWN BY: JT
DATE: 12/18/20 CHECKED BY: BJP

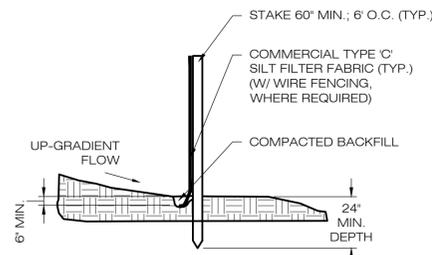
SHEET TITLE:

SEDIMENTATION &
EROSION CONTROL
NOTES

SHEET NUMBER:

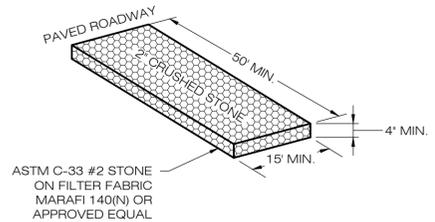
EC-1



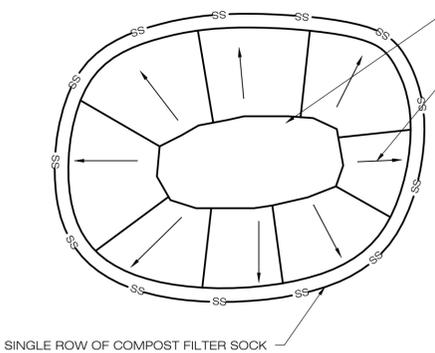


NOTE:
SILT FENCE SHALL BE LAPPED ONLY
WHEN NECESSARY PER THE
MANUFACTURER RECOMMENDATIONS.

1 SILT FENCE DETAIL
SCALE : N.T.S.



2 CONSTRUCTION ENTRANCE DETAIL
SCALE : N.T.S.

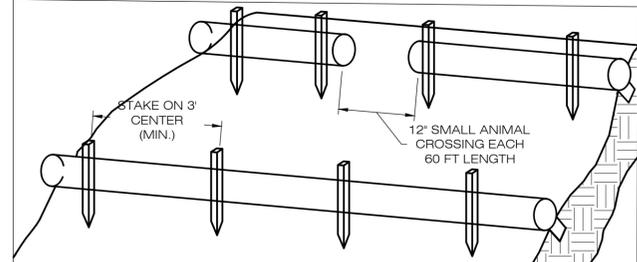


SOIL/AGGREGATE STOCKPILE OF EXISTING
SITE MATERIAL TO BE REUSED AND/OR NEW
MATERIAL TO BE INSTALLED IN THE WORK

DIRECTION OF RUN-OFF FLOW (TYP.)

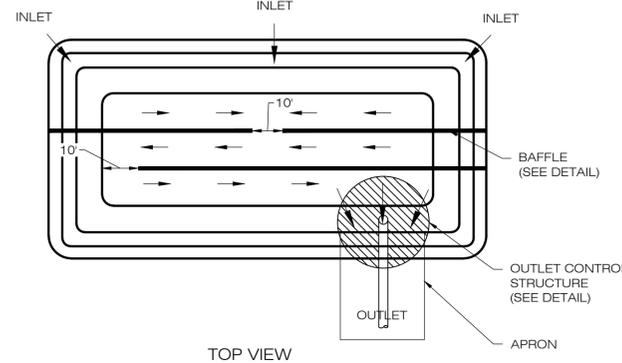
NOTES:
1. ALL EXISTING EXCAVATED
MATERIAL THAT IS NOT TO BE
REUSED IN THE WORK IS TO BE
IMMEDIATELY REMOVED FROM THE
SITE AND PROPERLY DISPOSED OF.
2. SOIL/AGGREGATE STOCKPILE
SITES TO BE WHERE SHOWN ON
THE DRAWINGS.
3. RESTORE STOCKPILE SITES TO
PRE-EXISTING PROJECT CONDITION
AND RESEED AS REQUIRED.
4. STOCKPILE HEIGHTS MUST NOT
EXCEED 35'. STOCKPILE SLOPES
MUST BE 2:1 OR FLATTER.

3 MATERIALS STOCKPILE DETAIL
SCALE : N.T.S.

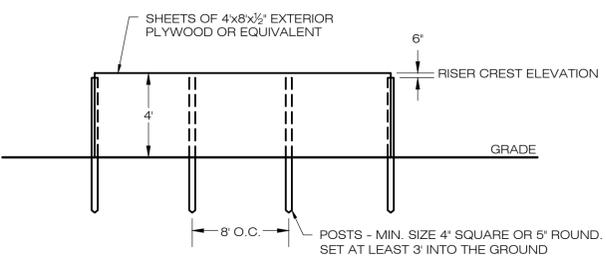


1. BEGIN AT THE LOCATION WHERE THE SOCK IS TO BE INSTALLED BY EXCAVATING A 2'-3" (61-76 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE SOCK IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE SOCK ON THE UPHILL SIDE. SOCKS SHALL BE INSTALLED IN 60 FT CONTINUOUS LENGTHS WITH ADJACENT SOCKS TIGHTLY ABUT. EVERY 60 FT THE SOCK ROW SHALL BE SPACED 12 INCHES CLEAR, END TO END, FOR AMPHIBIAN AND REPTILE TRAVEL. THE OPEN SPACES SHALL BE STAGGERED MID LENGTH OF THE NEXT DOWN GRADIENT SOCK.
3. SECURE THE SOCK WITH 18-24" (45.7-61 CM) STAKES EVERY 3'-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK LEAVING AT LEAST 2'-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE SOCK. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

4 COMPOST FILTER SOCK SEDIMENTATION CONTROL BARRIER
SCALE : N.T.S.

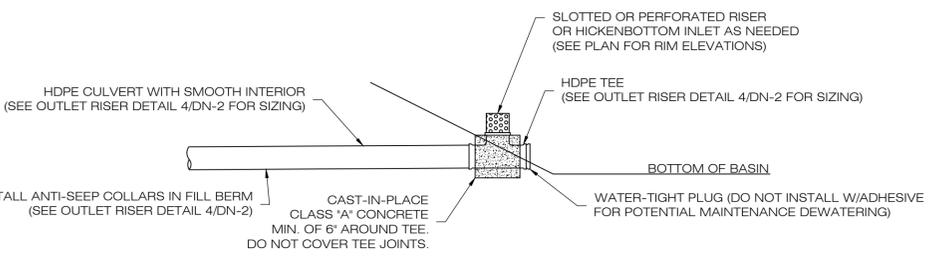


TOP VIEW

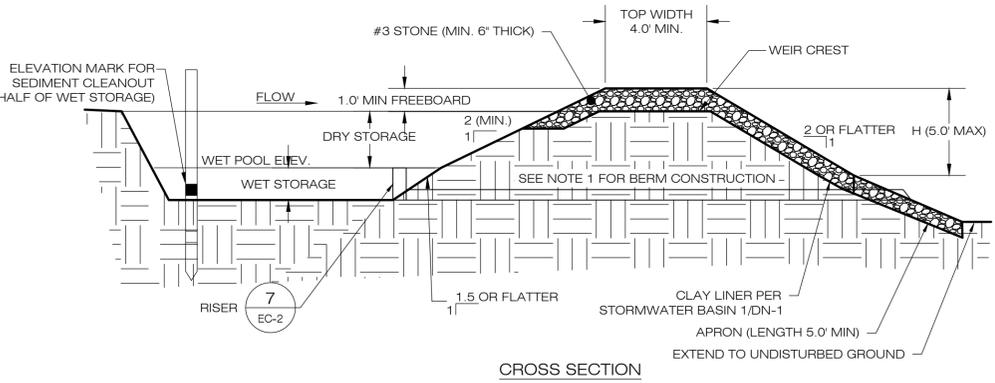


NOTES:
1. FILL ANY VOIDS BETWEEN THE BOTTOM OF THE BASIN AND BAFFLE.

6 SEDIMENT TRAP BAFFLE
SCALE : N.T.S.



7 RISER DETAIL
SCALE : N.T.S.



CROSS SECTION

NOTES:
1. CONSTRUCT TEMPORARY SEDIMENT BASIN BERMS AND SIDEWALLS PER THE GRASS LINED BASIN DETAIL.
2. SEDIMENT BAFFLES SHALL BE INSTALLED AS SHOWN ON EC-1.
3. SEE TSB SIZING TABLE FOR WET AND DRY STORAGE VOLUMES.

5 TEMPORARY SEDIMENT BASIN
SCALE : N.T.S.

TEMPORARY SEDIMENT BASIN SIZING TABLE

NAME	DRAINAGE AREA (AC)	REQ. DRY VOLUME (CF)	REQ. WET VOLUME (CF)	PROP. BTM. ELEV. (FT)	PROP. OUTLET RIM ELEV. (FT)	PROP. WEIR CREST ELEV. (FT)	PROP. TOP ELEV. (FT)	WET VOL. PROVIDED (CF)	DRY VOL. PROVIDED (CF)	TOTAL VOL. PROVIDED (CF)
TSB-1	5.86	4,690	9,379	705.00	706.30	707.00	709.00	11,851	8,363	20,214
TSB-2	6.91	5,527	11,053	721.00	722.50	723.00	724.00	18,299	6,826	25,125
TSB-3	4.45	3,562	7,124	738.00	739.30	740.00	741.00	7,637	4,929	12,566

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SHEET TITLE:
SEDIMENTATION & EROSION CONTROL DETAILS

SHEET NUMBER:
EC-2

BRISTOL SOLAR ONE, LLC

150 TRUMBULL STREET
4TH FLOOR
HARTFORD, CT, 06103



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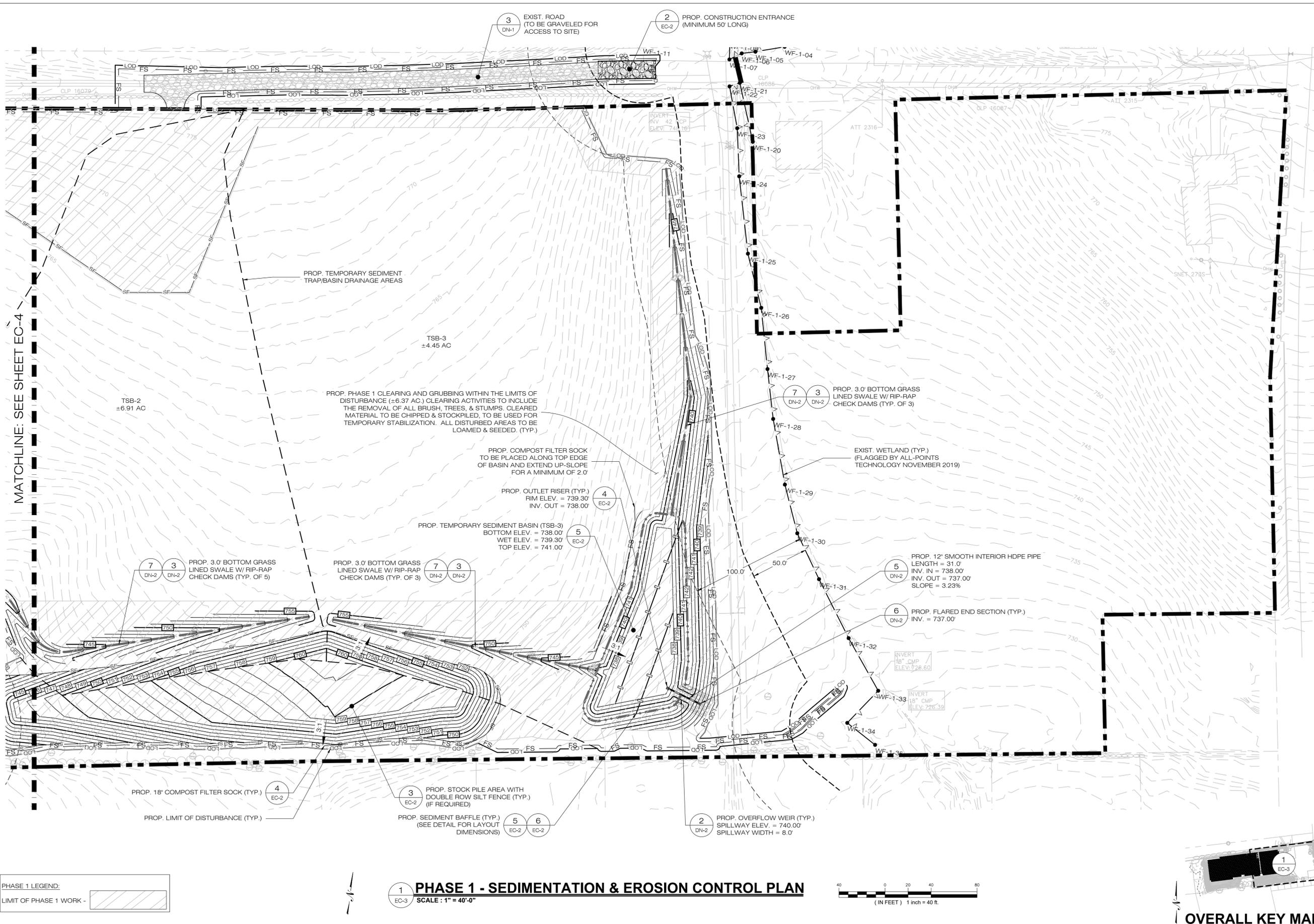
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SHEET TITLE:
**PHASE 1
SEDIMENTATION &
EROSION CONTROL PLAN**

SHEET NUMBER:

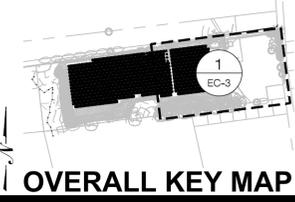
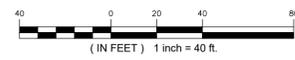
EC-3



MATCHLINE: SEE SHEET EC-4

PHASE 1 LEGEND:
LIMIT OF PHASE 1 WORK - [Hatched Box]

1 PHASE 1 - SEDIMENTATION & EROSION CONTROL PLAN
SCALE: 1" = 40'-0"



OVERALL KEY MAP

BRISTOL SOLAR ONE, LLC

150 TRUMBULL STREET
4TH FLOOR
HARTFORD, CT, 06103



567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	12/18/20	CSC D&M PLANS: BJP
1		
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DESIGN PROFESSIONAL OF RECORD

PROF. BRADLEY J. PARSONS, P.E.
COMP. ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385

OWNER: MARK E., ANN L. & PAUL C. MINOR
ADDRESS: 399 HILL STREET
BRISTOL, CT

BRISTOL SOLAR ONE, LLC

SITE 399 HILL STREET
ADDRESS: BRISTOL, CT

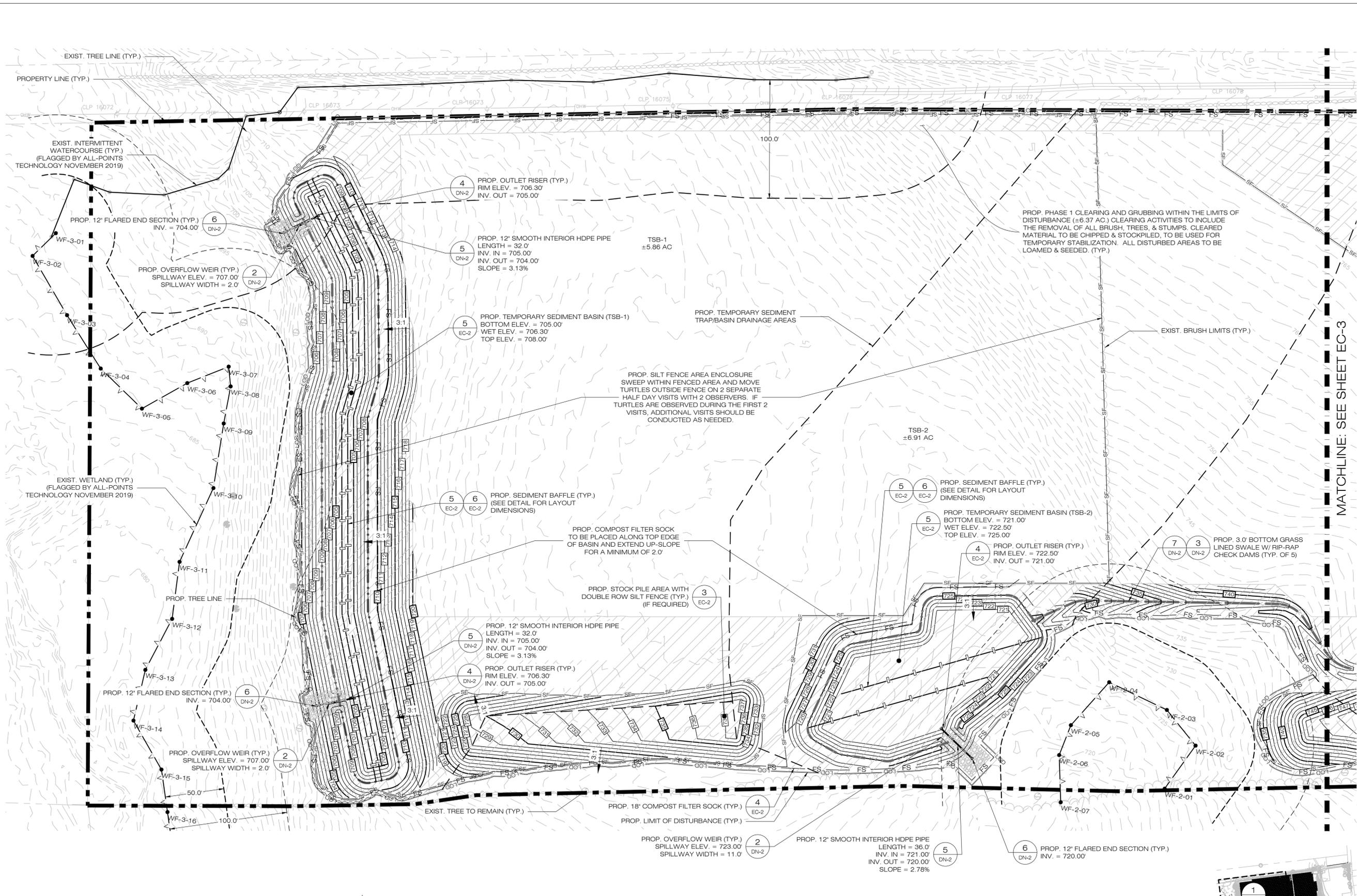
APT FILING NUMBER: CT590220

DRAWN BY: JT

DATE: 12/18/20 CHECKED BY: BJP

SHEET TITLE:
**PHASE 1
SEDIMENTATION &
EROSION CONTROL PLAN**

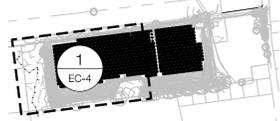
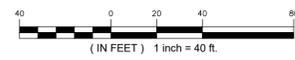
SHEET NUMBER:
EC-4



MATCHLINE: SEE SHEET EC-3

PHASE 1 LEGEND:
LIMIT OF PHASE 1 WORK - [Hatched Box]

1 PHASE 1 - SEDIMENTATION & EROSION CONTROL PLAN
SCALE: 1" = 40'-0"



OVERALL KEY MAP

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4TH FLOOR
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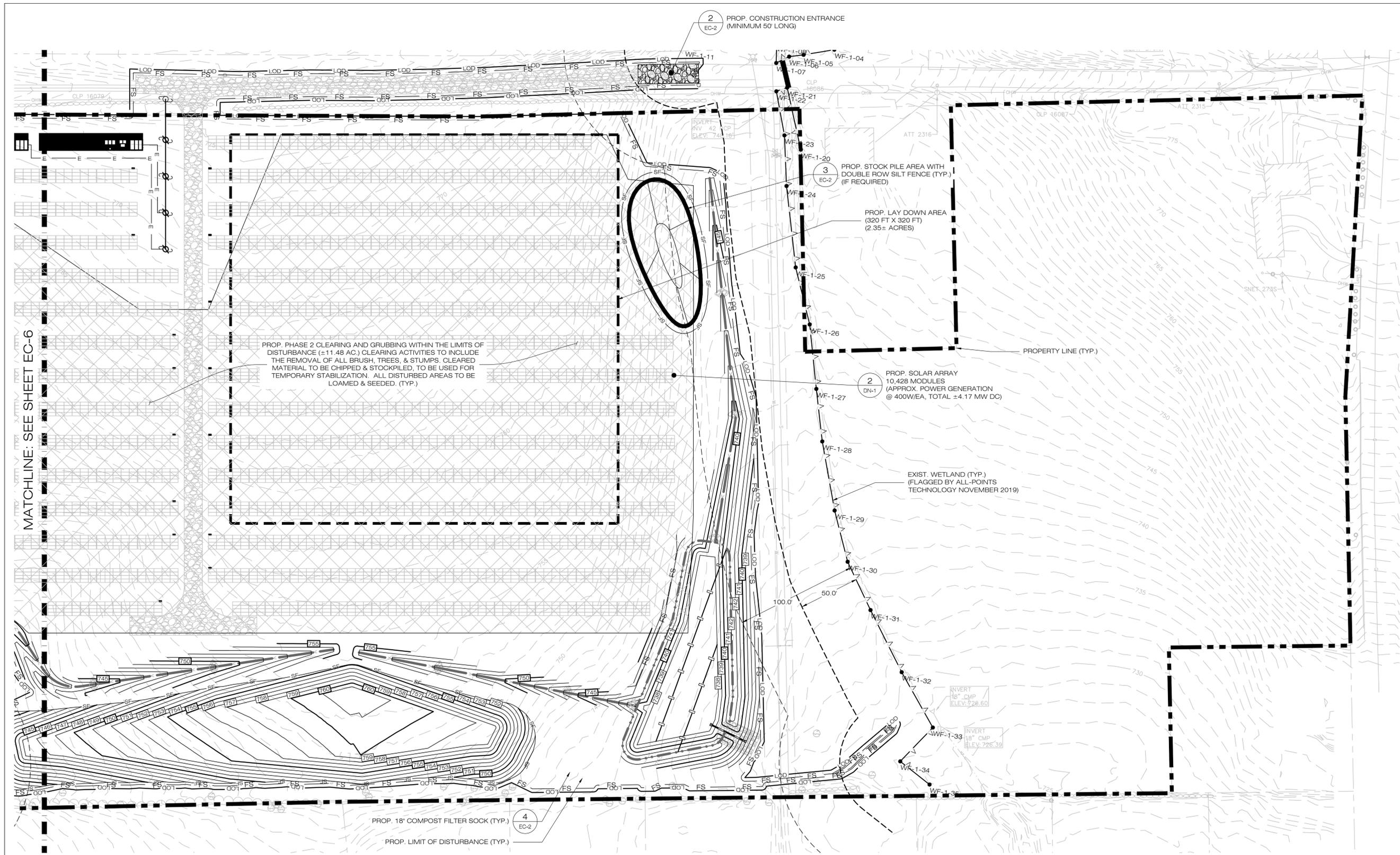
SITE 399 HILL STREET
ADDRESS: BRISTOL, CT

APT FILING NUMBER: CT590220

DATE: 12/18/20 DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:
**PHASE 2
SEDIMENTATION &
EROSION CONTROL PLAN**

SHEET NUMBER:
EC-5



MATCHLINE: SEE SHEET EC-6

PROP. PHASE 2 CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE (±11.48 AC.) CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED, TO BE USED FOR TEMPORARY STABILIZATION. ALL DISTURBED AREAS TO BE LOAMED & SEEDED. (TYP.)

2
DN-1
PROP. SOLAR ARRAY
10,428 MODULES
(APPROX. POWER GENERATION
@ 400W/EA, TOTAL ±4.17 MW DC)

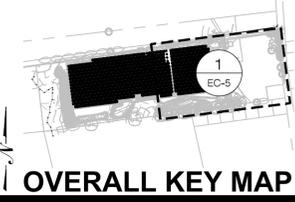
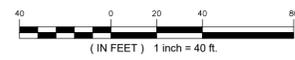
3
EC-2
PROP. STOCK PILE AREA WITH
DOUBLE ROW SILT FENCE (TYP.)
(IF REQUIRED)

PROP. LAY DOWN AREA
(320 FT X 320 FT)
(2.35± ACRES)

2
EC-2
PROP. CONSTRUCTION ENTRANCE
(MINIMUM 50' LONG)

4
EC-2
PROP. 18\"/>

1
EC-5
PHASE 2 - SEDIMENTATION & EROSION CONTROL PLAN
SCALE: 1" = 40'-0"



PHASE 2 LEGEND:

LIMIT OF PHASE 2 WORK UPON COMPLETION OF PHASE 1 WORK	
---	--

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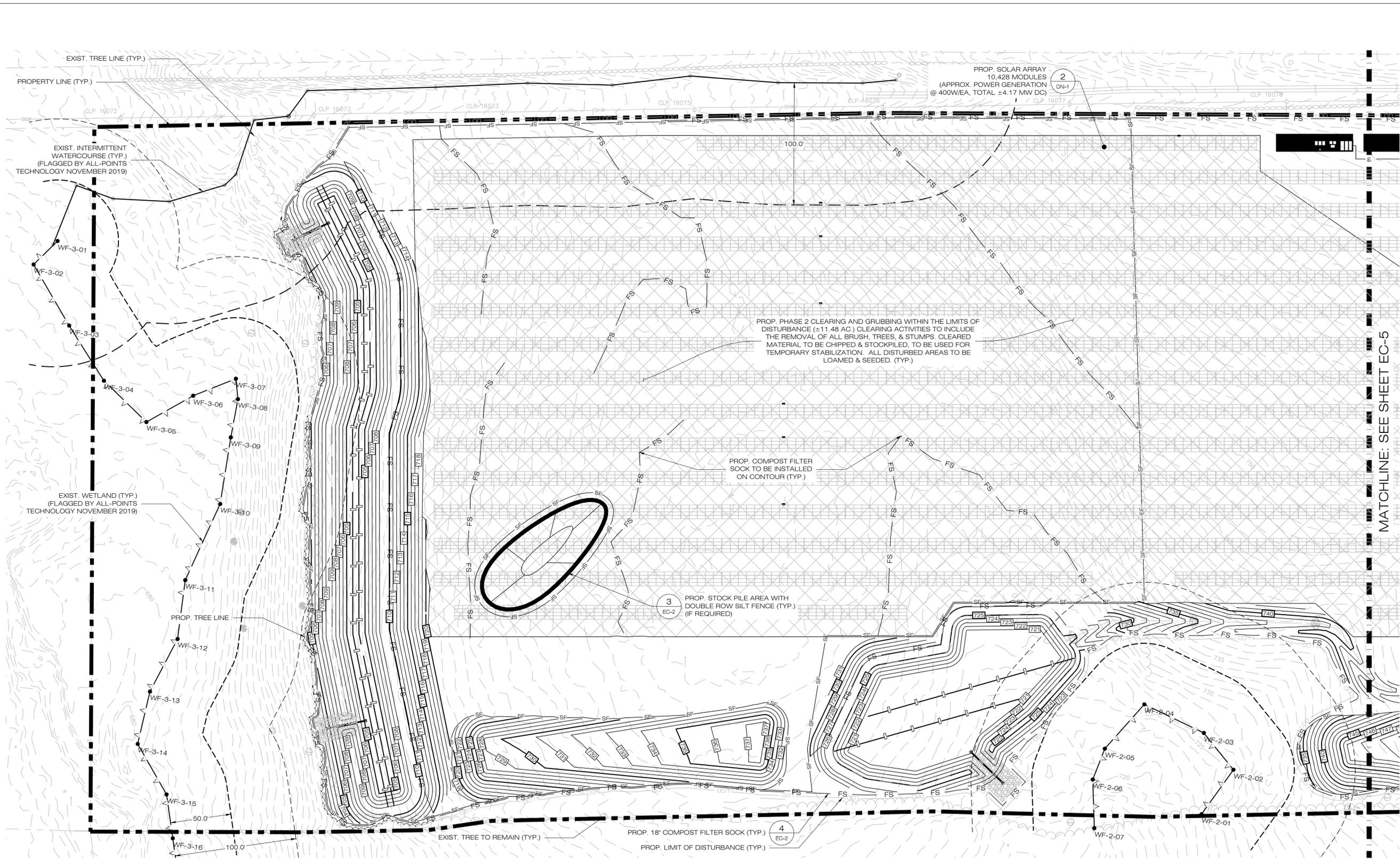
DRAWN BY: JT

DATE: 12/18/20 CHECKED BY: BJP

SHEET TITLE:
**PHASE 2
SEDIMENTATION &
EROSION CONTROL PLAN**

SHEET NUMBER:

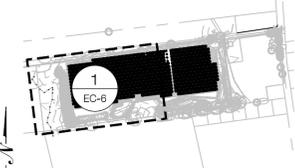
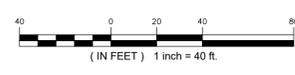
EC-6



MATCHLINE: SEE SHEET EC-5



1 PHASE 2 - SEDIMENTATION & EROSION CONTROL PLAN
 EC-6 SCALE: 1" = 40'-0"



OVERALL KEY MAP

BRISTOL SOLAR ONE, LLC

150 TRUMBULL STREET
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HARTFORD, CT, 06103



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SITE 399 HILL STREET
ADDRESS: BRISTOL, CT

APT FILING NUMBER: CT590220

DRAWN BY: JT

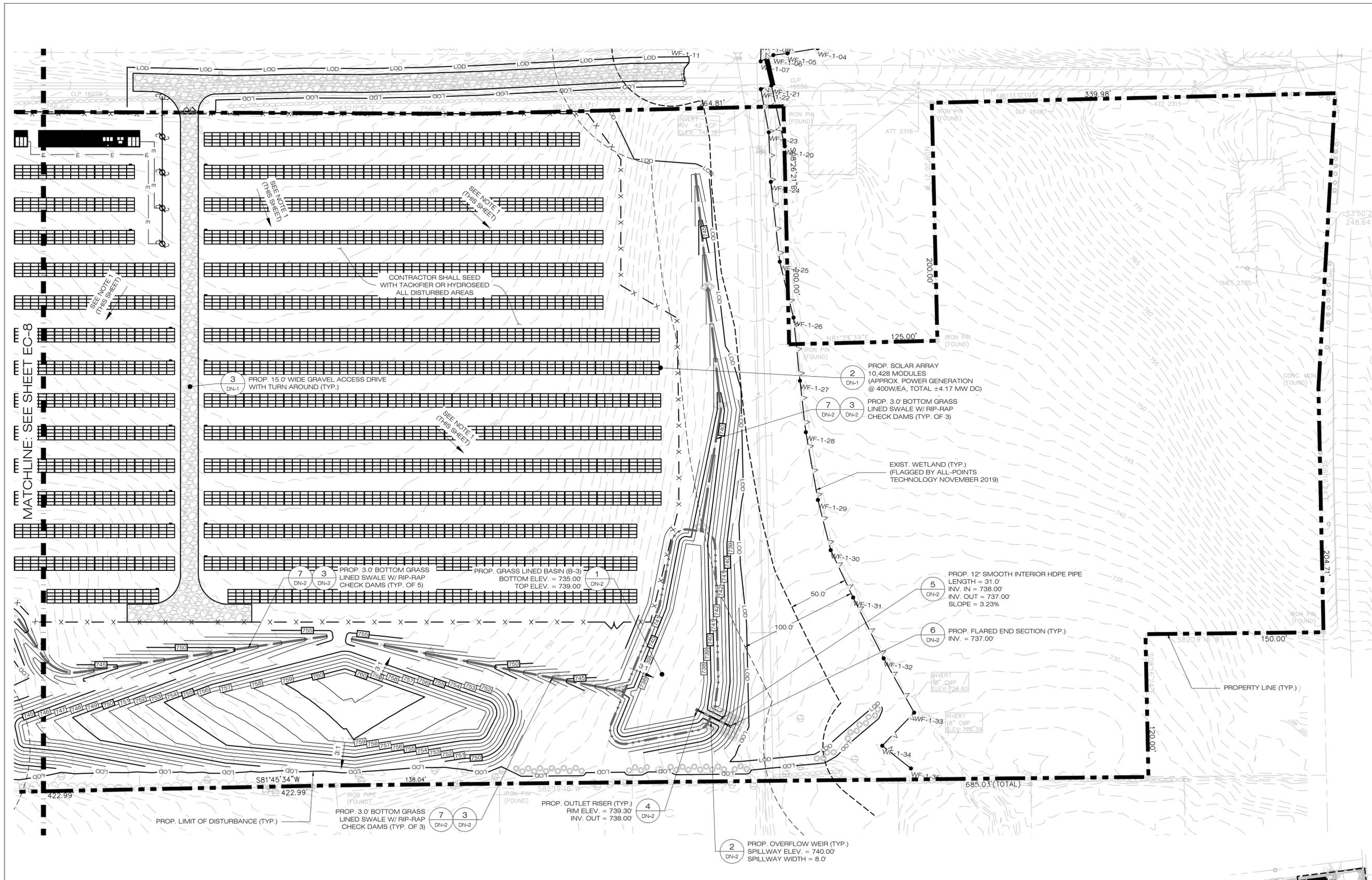
DATE: 12/18/20 CHECKED BY: BJP

SHEET TITLE:

FINAL GRADING & DRAINAGE PLAN

SHEET NUMBER:

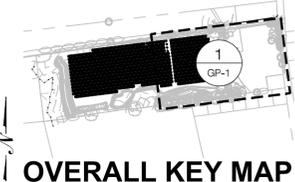
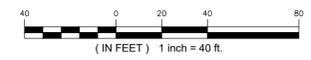
GP-1



NOTES:

- GRADE/SHAPE AREA TO MAINTAIN EXIST. DRAINAGE PATTERNS.
- CONTRACTOR SHALL REMOVE ALL BAFFLES AND SEDIMENT BASINS AND SWALES.
- CONTRACTOR SHALL REPLACE TEMPORARY SEDIMENT BASIN OUTLET WITH GRAVEL OVERFLOW WEIR UPON THE SITE OR DRAINAGE AREA BEING DEEMED STABILIZED PER THE SWPCP.
- CONTRACTOR SHALL MODIFY/REPLACE THE TEMPORARY SEDIMENT BASIN RISER AS NEEDED UPON THE SITE OR DRAINAGE AREA BEING DEEMED STABILIZED PER THE SWPCP.

1 FINAL GRADING & DRAINAGE PLAN
GP-1 SCALE: 1" = 40'-0"



BRISTOL SOLAR ONE, LLC

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BRISTOL SOLAR ONE, LLC

SITE 399 HILL STREET
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APT FILING NUMBER: CT590220

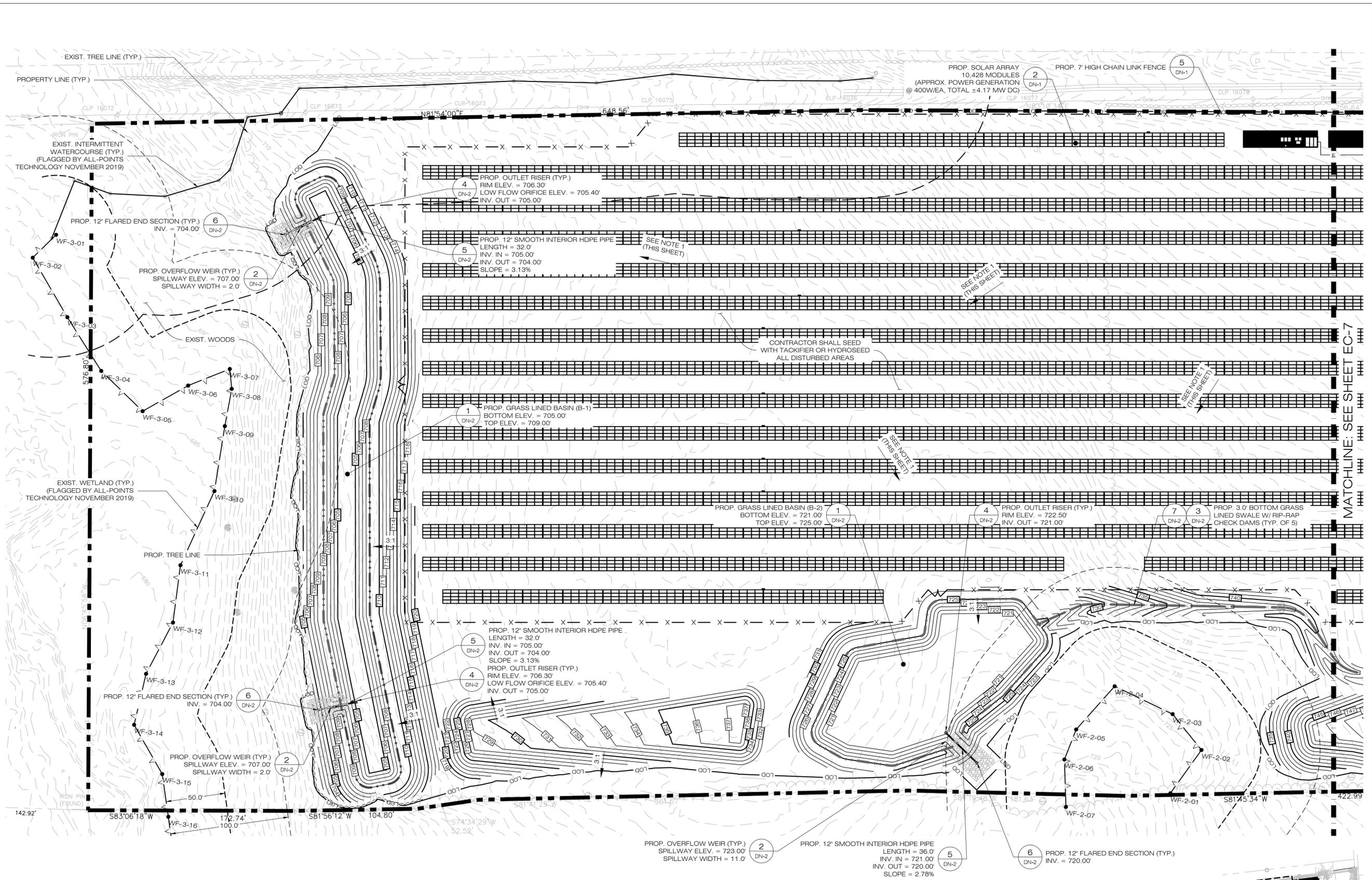
DRAWN BY: JT

DATE: 12/18/20 CHECKED BY: BJP

SHEET TITLE:
**PHASE 3
FINAL GRADING &
DRAINAGE PLAN**

SHEET NUMBER:

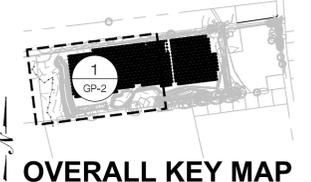
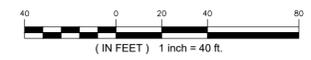
EC-8



NOTES:

- GRADE/SHAPE AREA TO MAINTAIN EXIST. DRAINAGE PATTERNS.
- CONTRACTOR SHALL REMOVE ALL BAFFLES AND SEDIMENT BASINS AND SWALES.
- CONTRACTOR SHALL REPLACE TEMPORARY SEDIMENT BASIN OUTLET WITH GRAVEL OVERFLOW WEIR UPON THE SITE OR DRAINAGE AREA BEING DEEMED STABILIZED PER THE SWPCP.
- CONTRACTOR SHALL MODIFY/REPLACE THE TEMPORARY SEDIMENT BASIN RISER AS NEEDED UPON THE SITE OR DRAINAGE AREA BEING DEEMED STABILIZED PER THE SWPCP.

1 FINAL GRADING & DRAINAGE PLAN
GP-2 SCALE: 1" = 40'-0"



OVERALL KEY MAP

MATCHLINE: SEE SHEET EC-7

PROP. OVERFLOW WEIR (TYP.)
SPILLWAY ELEV. = 723.00'
SPILLWAY WIDTH = 11.0'

PROP. 12" SMOOTH INTERIOR HDPE PIPE
LENGTH = 36.0'
INV. IN = 721.00'
INV. OUT = 720.00'
SLOPE = 2.78%

PROP. 12" FLARED END SECTION (TYP.)
INV. = 720.00'

PROP. 12" SMOOTH INTERIOR HDPE PIPE
LENGTH = 32.0'
INV. IN = 705.00'
INV. OUT = 704.00'
SLOPE = 3.13%

PROP. OUTLET RISER (TYP.)
RIM ELEV. = 706.30'
LOW FLOW ORIFICE ELEV. = 705.40'
INV. OUT = 705.00'

PROP. 12" FLARED END SECTION (TYP.)
INV. = 704.00'

PROP. OVERFLOW WEIR (TYP.)
SPILLWAY ELEV. = 707.00'
SPILLWAY WIDTH = 2.0'

PROP. GRASS LINED BASIN (B-1)
BOTTOM ELEV. = 705.00'
TOP ELEV. = 709.00'

PROP. GRASS LINED BASIN (B-2)
BOTTOM ELEV. = 721.00'
TOP ELEV. = 725.00'

PROP. OUTLET RISER (TYP.)
RIM ELEV. = 722.50'
INV. OUT = 721.00'

PROP. 3.0' BOTTOM GRASS LINED SWALE W/ RIP-RAP CHECK DAMS (TYP. OF 5)

PROP. OUTLET RISER (TYP.)
RIM ELEV. = 706.30'
LOW FLOW ORIFICE ELEV. = 705.40'
INV. OUT = 705.00'

PROP. 12" SMOOTH INTERIOR HDPE PIPE
LENGTH = 32.0'
INV. IN = 705.00'
INV. OUT = 704.00'
SLOPE = 3.13%

PROP. OVERFLOW WEIR (TYP.)
SPILLWAY ELEV. = 707.00'
SPILLWAY WIDTH = 2.0'

PROP. 12" FLARED END SECTION (TYP.)
INV. = 704.00'

CONTRACTOR SHALL SEED WITH TACKIFIER OR HYDROSEED ALL DISTURBED AREAS

PROP. SOLAR ARRAY
10,428 MODULES
(APPROX. POWER GENERATION @ 400W/EA, TOTAL ± 4.17 MW DC)

PROP. 7' HIGH CHAIN LINK FENCE

EXIST. TREE LINE (TYP.)

PROPERTY LINE (TYP.)

EXIST. INTERMITTENT WATERCOURSE (TYP.)
(FLAGGED BY ALL-POINTS TECHNOLOGY NOVEMBER 2019)

IRON PIN
EXIST. INTERMITTENT WATERCOURSE (TYP.)
(FLAGGED BY ALL-POINTS TECHNOLOGY NOVEMBER 2019)

EXIST. WOODS

EXIST. WETLAND (TYP.)
(FLAGGED BY ALL-POINTS TECHNOLOGY NOVEMBER 2019)

PROP. TREE LINE

IRON PIN (FOUND)

CLP 19072

CLP 15673

CLB 16073

CLP 16075

CLP 16076

CLP 16077

CLP 16078

CLP 16079

CLP 16080

CLP 16081

CLP 16082

CLP 16083

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BRISTOL SOLAR ONE, LLC

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SITE ADDRESS: 399 HILL STREET
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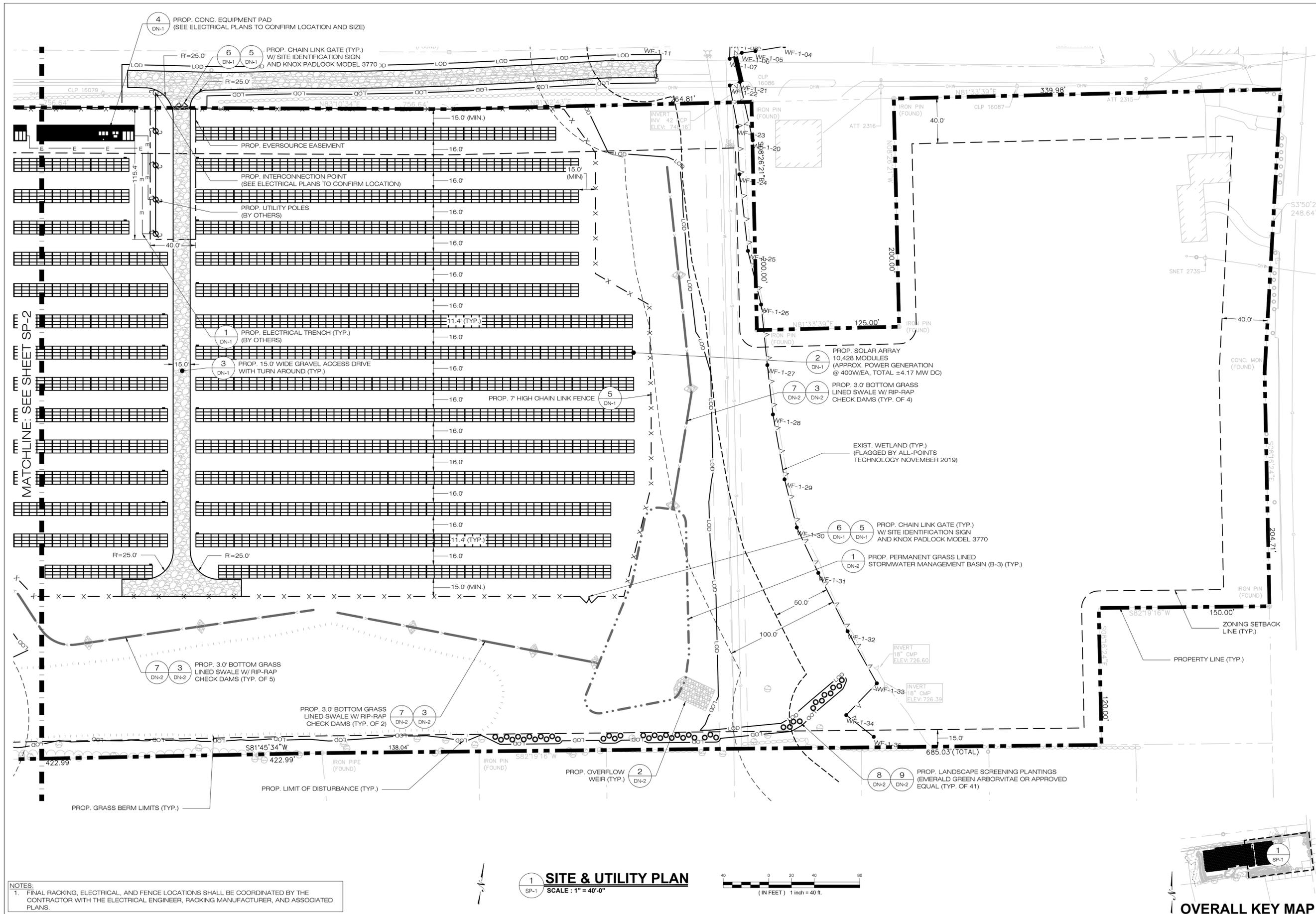
DRAWN BY: JT
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SHEET TITLE:

SITE & UTILITY PLAN

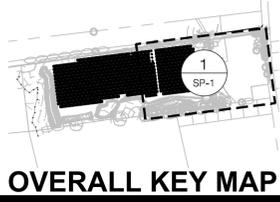
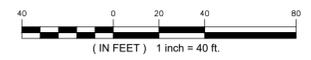
SHEET NUMBER:

SP-1



NOTES:
1. FINAL RACKING, ELECTRICAL, AND FENCE LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ELECTRICAL ENGINEER, RACKING MANUFACTURER, AND ASSOCIATED PLANS.

1 SITE & UTILITY PLAN
SCALE: 1" = 40'-0"



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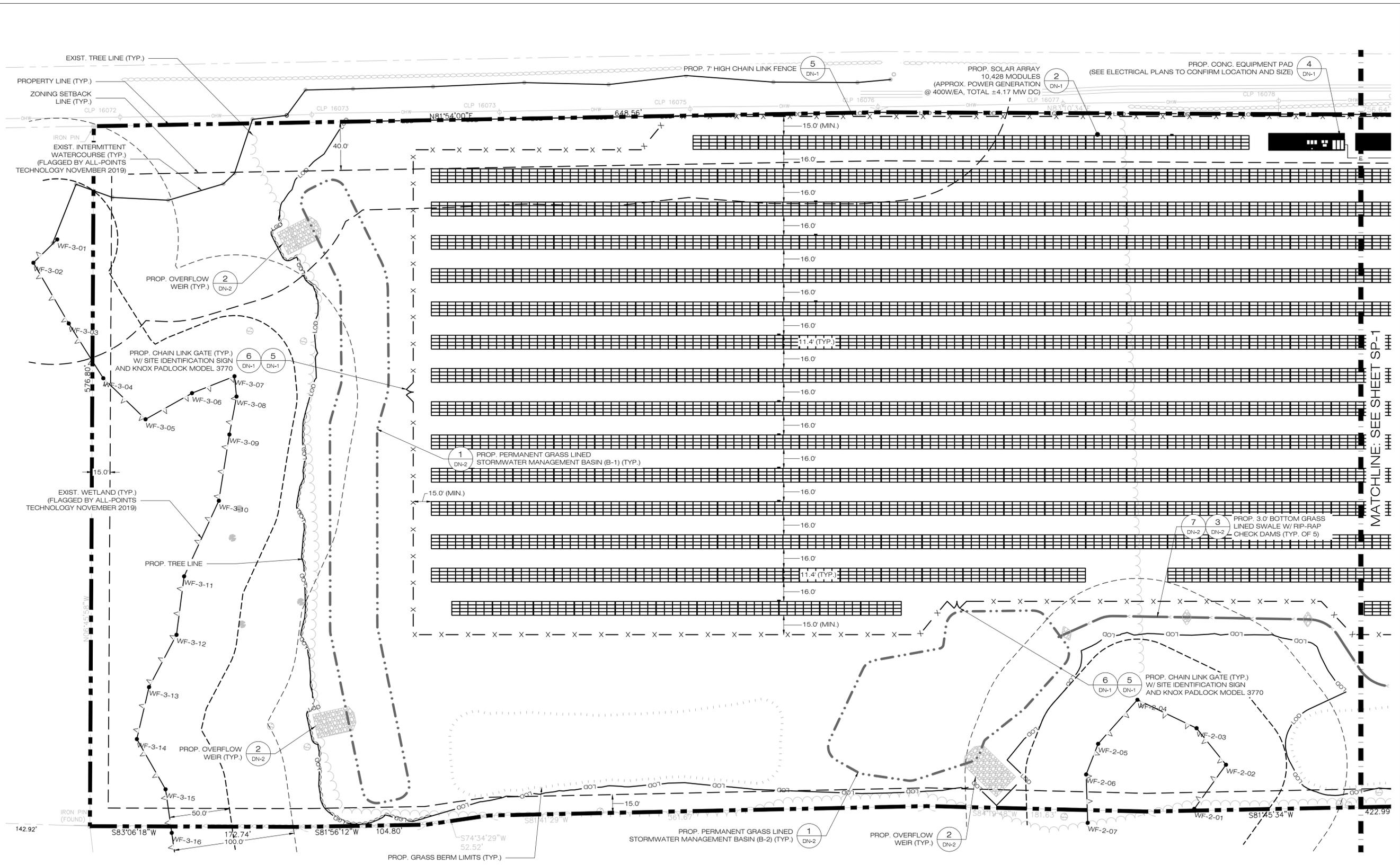
SITE 399 HILL STREET
ADDRESS: BRISTOL, CT

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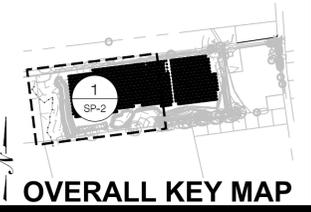
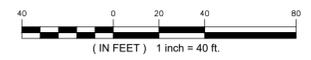
SHEET TITLE:
SITE & UTILITY PLAN

SHEET NUMBER:
SP-2



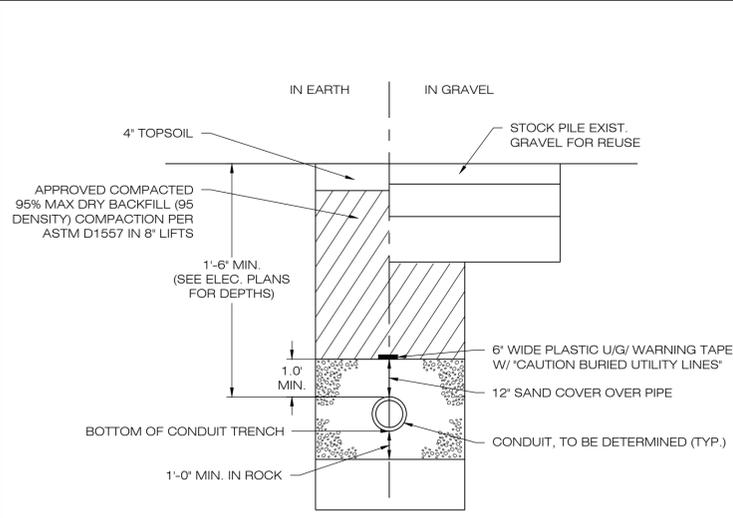
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1 SITE & UTILITY PLAN
SCALE: 1" = 40'-0"

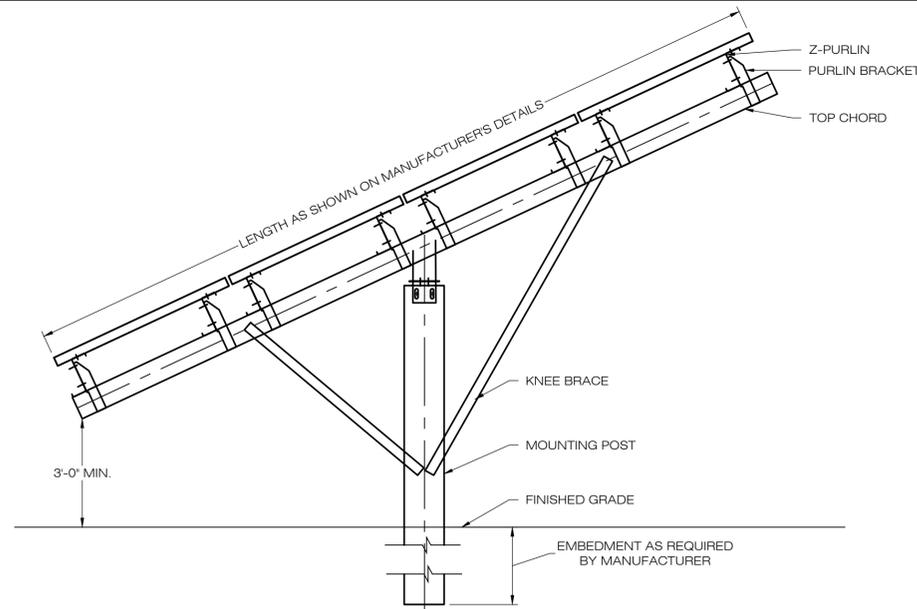


OVERALL KEY MAP

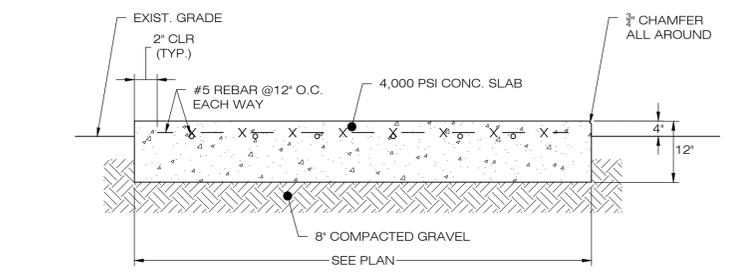
MATCHLINE: SEE SHEET SP-1



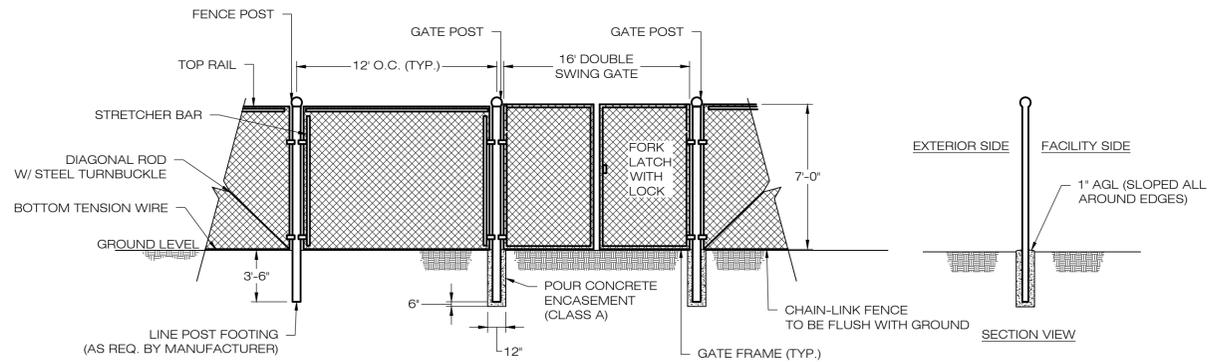
1 ELECTRICAL TRENCH DETAIL
DN-1 SCALE : N.T.S.



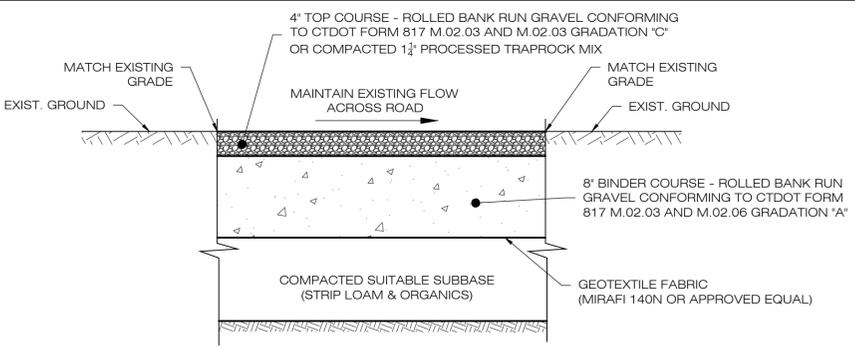
2 TYPICAL POST MOUNTED RACKING SYSTEM
DN-1 SCALE : N.T.S.



4 CONCRETE EQUIPMENT PAD
DN-1 SCALE : N.T.S.

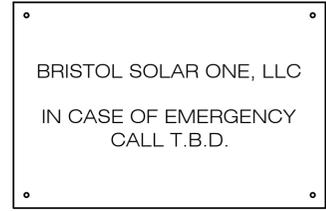


5 CHAIN-LINK FENCE & GATE DETAIL
DN-1 SCALE : N.T.S.



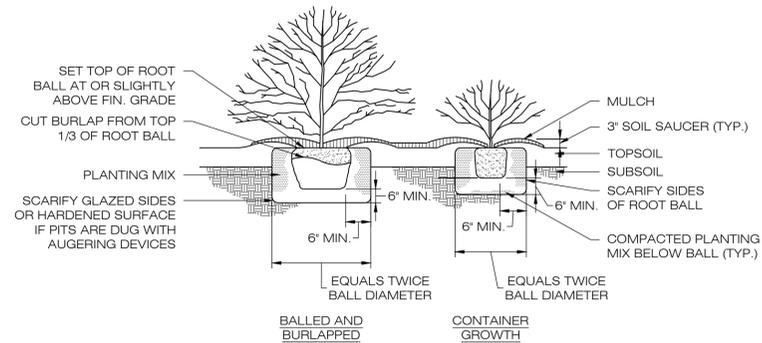
- NOTES:**
- SUBBASE MAY CONSIST OF NATIVE MATERIALS IF FOUND ACCEPTABLE BY THE ENGINEER. SUBBASE TO BE COMPACTED TO 95% MAX DRY DENSITY.
 - SUBBASE IS TO BE FREE FROM DEBRIS AND UNSUITABLE MATERIALS.
 - CONTRACTOR SHALL INSTALL ACCESS ROAD FLUSH WITH EXISTING GRADE TO ENSURE DRAINAGE FLOW PATHS ARE MAINTAINED.
 - SEE PLAN VIEW SHEETS FOR ROAD WIDTH.

3 GRAVEL ACCESS DRIVE SECTION
DN-1 SCALE : N.T.S.



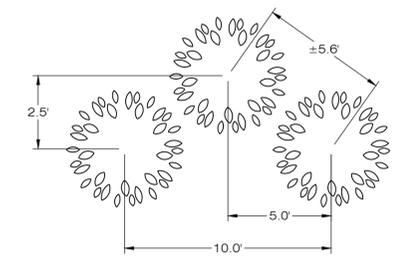
- NOTES:**
EMERGENCY CALL NUMBER TO BE PROVIDED ONCE DETERMINED.

6 NOTIFICATION SIGN DETAIL
DN-1 SCALE : N.T.S.



- NOTES:**
IN AREAS OF MASS PLANTINGS, CONTINUOUSLY EXCAVATE AND MULCH ENTIRE BED.

8 TYPICAL PLANTING DETAIL
DN-1 SCALE : N.T.S.



9 SCREENING TREE SPACING
DN-1 SCALE : N.T.S.

BRISTOL SOLAR ONE, LLC
150 TRUMBULL STREET
4TH FLOOR
HARTFORD, CT, 06103



567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	12/18/20	CSC D&M PLANS: BJP
1		
2		
3		
4		
5		
6		

DESIGN PROFESSIONAL OF RECORD

PROF: BRADLEY J. PARSONS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE 311
WATERFORD, CT 06385

OWNER: MARK E., ANN L. & PAUL C. MINOR
ADDRESS: 399 HILL STREET
BRISTOL, CT

BRISTOL SOLAR ONE, LLC

SITE ADDRESS: 399 HILL STREET
BRISTOL, CT

APT FILING NUMBER: CT590220

DATE: 12/18/20 DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:
SITE DETAILS

SHEET NUMBER:
DN-1

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
New England Semi-Shade Grass and Forbs Mix

Botanical Name	Common Name	Indicator
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Liatis spicata</i>	Spiked Gayfeather/Marsh Blazing Star	FAC+
<i>Onoclea sensibilis</i>	Sensitive Fern	FACW
<i>Aster prenanthoides (Symphyotrichum prenanthoide)</i>	Zigzag Aster	FAC
<i>Eupatorium fistulosum (Eutrochium fistulosum)</i>	Hollow-Stem Joe Pye Weed	FACW
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Juncus tenuis</i>	Path Rush	FAC

PRICE PER LB. \$87.00 MIN. QUANTITY 1 LBS. TOTAL: \$87.00 APPLY: 30 LBS/ACRE :1450 sq ft/lb

The New England Semi Shade Grass & Forb Mix contains a broad spectrum of native grasses and forbs that will tolerate semi-shade and edge conditions. Always apply on clean bare soil. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper seed to soil contact. Best results are obtained with a Spring seeding. Late Spring and early Summer seeding will benefit with a light mulching of weed-free straw to conserve moisture. If conditions are drier than usual, watering will be required. Late Fall and Winter dormant seeding require an increase in the seeding rate. Fertilization is not required unless the soils are particularly infertile. Preparation of a clean weed free seed bed is necessary for optimal results.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus SH and applicable taxes.

7 SEMI-SHADE MIX
DN-1 SCALE : N.T.S.

BRISTOL SOLAR ONE, LLC

150 TRUMBULL STREET
4TH FLOOR
HARTFORD, CT, 06103



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APPROVED FOR CONSTRUCTION

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DESIGN PROFESSIONAL OF RECORD

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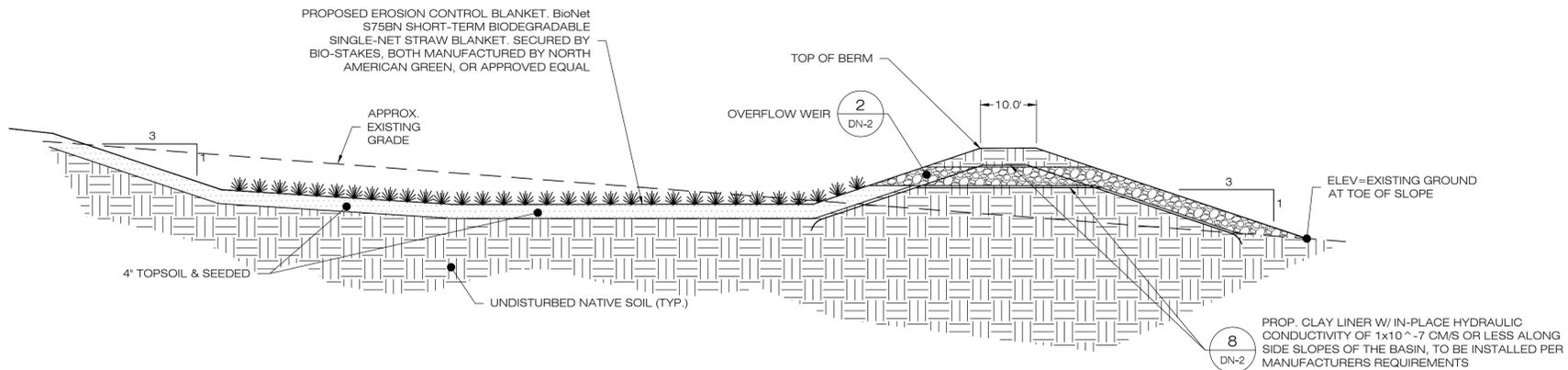
DATE: 12/18/20 DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:

SITE DETAILS

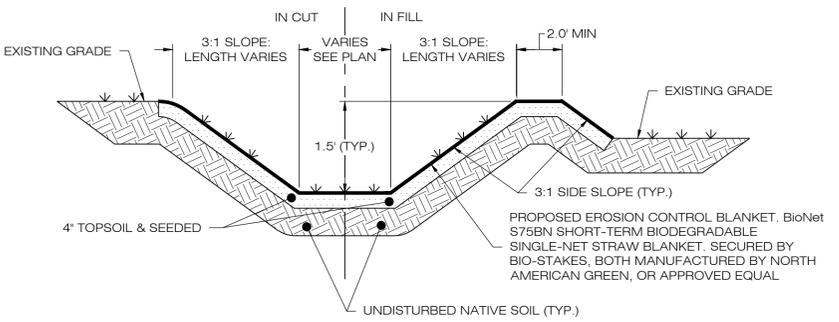
SHEET NUMBER:

DN-2



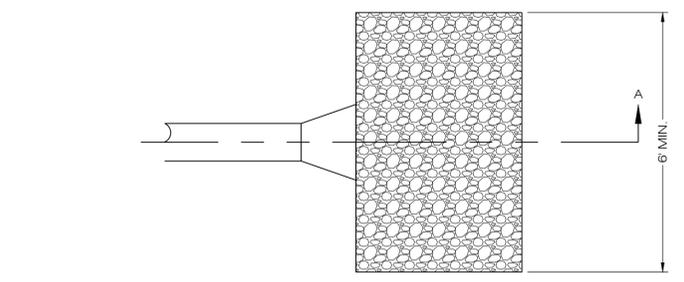
- NOTES:
- SEED MIX TO BE NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR MOIST SITES ON THE BOTTOM OF THE BASIN AND NEW ENGLAND EROSION/RESTORATION MIX FOR DRY SITES ON THE SIDE SLOPES.
 - FOR CONVERTING TEMPORARY SEDIMENT BASIN TO INFILTRATION BASIN, REMOVE BAFFLES, CLEAN OUT SEDIMENT, RESHAPE AS REQUIRED. SEE PLANS FOR BASIN DEPTHS AND ELEVATIONS.
 - INSPECT AND CLEAN PIPES.

1 GRASS LINED BASIN
SCALE: N.T.S.

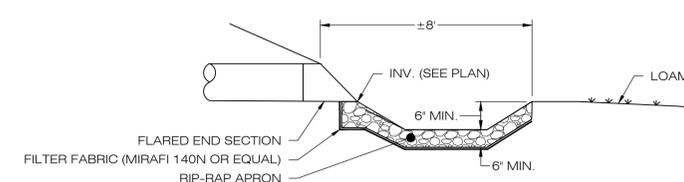


- NOTES:
- SEED MIX TO BE NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR MOIST SITES ON THE BOTTOM OF THE BASIN AND NEW ENGLAND EROSION/RESTORATION MIX FOR DRY SITES ON THE SIDE SLOPES.
 - IF DEPTH VARIES FROM 1.5', SEE PLAN CALLOUTS.

3 GRASS LINED SWALE
SCALE: N.T.S.



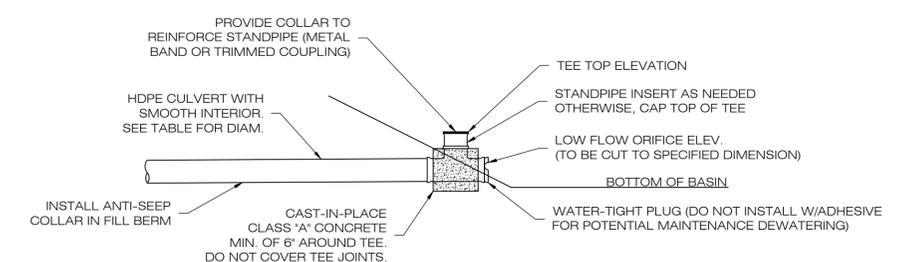
PLAN VIEW



SECTION A-A

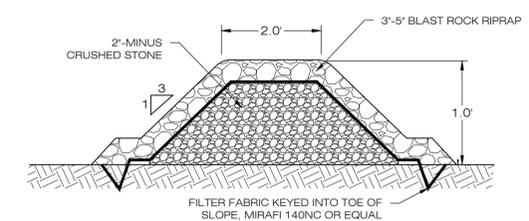
6 FLARED END SECTION/PLUNGE POOL
SCALE: N.T.S.

BASIN	TEE TOP ELEV. (FT)	LOW FLOW ORIFICE ELEV. (FT)	LOW FLOW ORIFICE DIMENSION (FT)	OUTLET PIPE SIZE (IN.)	OUTLET PIPE LENGTH (FT)	OUTLET PIPE SLOPE (%)	OUTLET PIPE INV. ELEV. AT STRUCTURE (FT)	OUTLET PIPE INV. AT OUTFALL (FT)
B-1 (2 OUTLET STRUCTURES)	706.30	705.40	DIAMETER = 4.0"	12	32.0	3.13	705.00	704.00
B-2	722.50	721.40	DIAMETER = 4.0"	12	36.0	2.78	721.00	720.00
B-3	739.30	738.50	DIAMETER = 4.0"	12	31.0	3.23	738.00	737.00



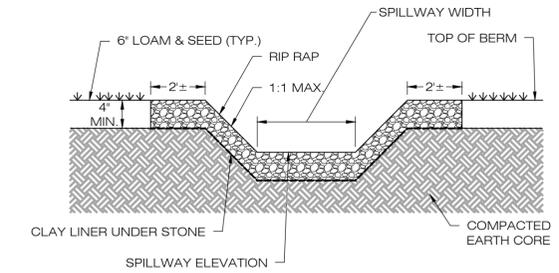
- NOTES:
- TEE TO BE ADS ADVANEDGE (TM) FABRICATED TEE OR APPROVED EQUAL. CONTRACTOR TO MODIFY TEE AS NEEDED.
 - ANTI-SEEP COLLARS TO BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.
 - CONVERT TEMPORARY SEDIMENT BASIN RISER TO FINAL BASIN OUTLET RISER.

4 OUTLET RISER
SCALE: N.T.S.

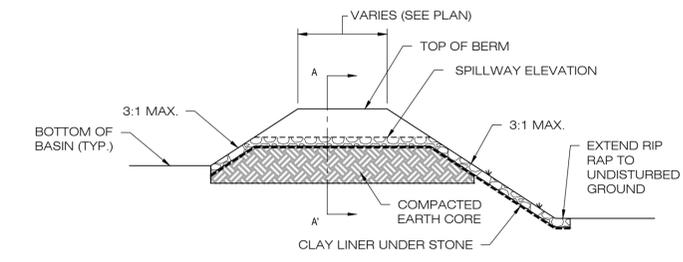


- NOTES:
- STONE SHALL BE PLACED MECHANICALLY OR BY HAND. STONE SHALL NOT BE DUMPED DIRECTLY INTO SWALE.
 - SEE GRADING AND DRAINAGE PLAN.

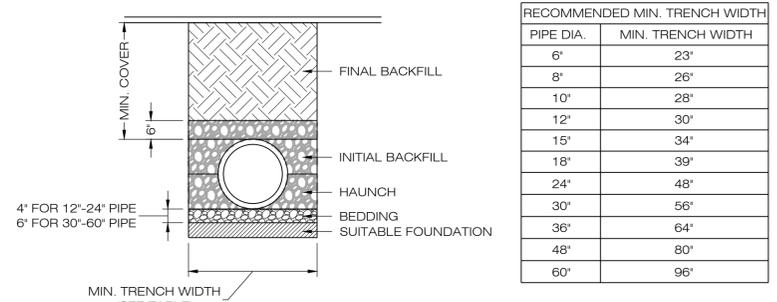
7 STONE CHECK DAM
SCALE: N.T.S.



SECTION A-A' THROUGH SPILLWAY



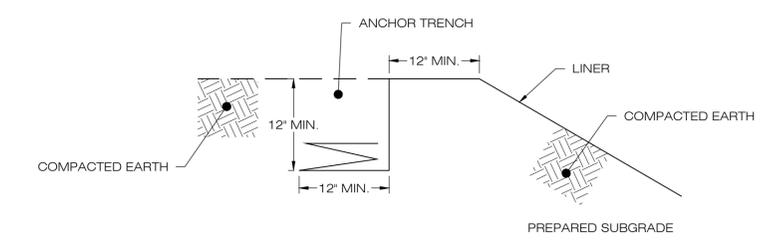
2 OVERFLOW WEIR DETAIL
SCALE: N.T.S.



PIPE DIA.	MIN. TRENCH WIDTH
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
48"	80"
60"	96"

- NOTES:
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS"; LATEST ADDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

5 HDPE STORM DRAINAGE TRENCH DETAIL
SCALE: N.T.S.



8 LINER ANCHOR DETAIL
SCALE: N.T.S.