

Lee D. Hoffman
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January 22, 2021

VIA ELECTRONIC MAIL

Melanie Bachman
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

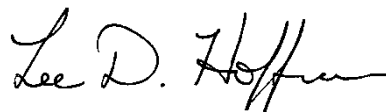
Re: PETITION NO. 1385 – Cobb Road LLC petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 1.95-megawatt AC solar photovoltaic electric generating facility on approximately 11.16 acres located at 20-1 Short Hills Road, Old Lyme, Connecticut and associated electrical interconnection.

Dear Ms. Bachman:

I am writing on behalf of my client, Cobb Road LLC (“Cobb Road”), in connection with the above-referenced Petition. With this letter, I am submitting the remainder of the Development & Management Plan for this Project.

Should you have any questions concerning this submittal, please contact me at your convenience. I certify that copies of this submittal have been made to all parties on the Petition’s service list.

Sincerely,



Lee D. Hoffman

Enclosures

Petition of Cobb Road, LLC
For a Declaratory Ruling that no Certificate of
Environmental Compatibility and Public Need is
Required for the Proposed Construction,
Operation and Maintenance of a 1.95 +/- MW AC
Ground-mounted Solar Photovoltaic Electric
Generating Facility Located on Short Hills Road
in Old Lyme, Connecticut

Development and Management Plan
for Remainder of Construction Activities

Prepared for
The Connecticut Siting Council

January 22, 2021

1.0 Introduction

On January 2, 2020, the Connecticut Siting Council approved the design, construction and development of a 1.95 +/- megawatt (MW) alternating current (AC) ground-mounted solar photovoltaic (PV) facility (the “Facility”) on a parcel of land located at 20-1 Short Hills Road in Old Lyme, Connecticut (the “Project”). The Project is being developed by Cobb Road, LLC (“Cobb Road”), an affiliate of Independence Solar, LLC (“Independence Solar”).

The Project was selected by Eversource and awarded a 15-year contract to participate in the Low Emissions Renewable Energy Credit (“LREC”) program. The Project’s output will be used to help Connecticut meet its emissions reduction targets via the State of Connecticut’s Renewable Portfolio Standards. The power from the Project is expected to be sold back to Eversource via its self-generation tariff.

The Project will be located at 20-1 Short Hills Road in Old Lyme, Connecticut (the “Site”; or “Project Site”). The Site itself is a privately-owned, irregular shaped parcel that consists of approximately 120.23 acres of primarily undeveloped land. The land is transected from west to east by overhead electric distribution lines (“Eversource ROW”). A single-family residence and a small cabin are located on the northeastern and southeast corners of the property, respectively. The Site vicinity is characterized as rural, with a mix of largely undeveloped land and sparse residential development.

Upon its completion, the Facility will occupy approximately 11.16 acres of the Site with an additional \pm 1.56 acres of disturbance beyond the Facility limits, for a total of \pm 12.72 acres, to enable development (“Project Area”). The final design of the Facility will be comprised of 7,566 photovoltaic modules (“panels”) installed at a fixed tilt angle; string inverters; one (1) pad mounted switchgear; and one (1) 2,000 kVA transformer. A ground-mounted racking system, with posts mounted on screw anchors, will be used to secure the panel arrays; while the Facility will be enclosed within a seven (7)-foot tall chain-link security fence. Electrical interconnection to existing distribution poles located within the Eversource ROW will require the installation of five (5) new utility poles. No utility poles, however, will be located within the Facility.

The Project's layout has been developed to minimize natural resource impact and carefully consider stormwater management both during and after construction. The characteristics of this type of solar facility minimizes the need for ground disturbance to the greatest extent feasible, avoids disruption of subsurface conditions, and allows for continued use of the Project Site as habitat for compatible species.

2.0 The Need for a D&M Plan and the Phasing of the D&M Plan

In issuing its approval for the Project, the Council did so with the requirement that the Project prepare a Development and Management Plan ("D&M Plan") for the Council's review. The D&M Plan was to contain the following information:

- a) A final site plan including, but not limited to, final solar panel layout, access roads, electrical interconnection, fence design and equipment pads;
- b) Copy of DEEP General Permit;
- c) Construction site plans that comply with the DEEP-approved Stormwater Pollution Control Plan that include, but are not limited to, site clearing, grading, site phasing, construction laydown areas, erosion and sedimentation controls, and details regarding construction-related environmental mitigation measures;
- d) Final Wetland and Vernal Pool Protection Plan;
- e) Post-construction restoration plan for all disturbed areas of the site;
- f) Post-construction site maintenance and vegetation management plan; and
- g) Contact information for the construction contractor.

As the Council is well-aware, on May 8, 2020, Cobb Road submitted a partial D&M Plan to undertake site clearing activities, civil work, construction of stormwater features and vegetative covering. The goal of proceeding in this fashion was to allow grass to grow at the site before the construction and installation of posts, racking, modules and inverters was to take place, in order to better minimize stormwater impacts associated with the construction of the Project.

As of December 2020, this phase of the construction of the project is complete. Since the Council's approval of the partial D&M Plan, Cobb Road has undertaken the following activities:

- Tree clearing;
- Installation of perimeter erosion controls;
- Installation of four (4) temporary sediment trap basins, including baffles;
- Hydroseeding of the basins and installation of erosion control mats in and around the sediment trap basins;
- Installation of the access road;
- Stumping and grubbing of the array field;
- Grading of the array field, where needed; and
- Loaming and hydroseeding of the array field.

As a result of these activities, the site has seen significant grass growth. In addition, the array field and basins have been fully stabilized as of November 2020. The pictures below document the progress that has been achieved at the site.



Grass growth and stabilization



Grass growth and stabilization



Sediment trap basins with baffles



Sediment trap basins with grass growth and stabilization

As was indicated in the May 8, 2020 D&M Plan submittal, once these preliminary construction activities were completed, Cobb Road was to complete its final design, including the specifics of which solar modules and inverters will be utilized for the Project, and submit those final designs to the Siting Council for approval. This D&M Plan contains these remaining materials, which are discussed in greater detail below.

It should be noted that this D&M Plan, particularly in the detail in the attached drawings, contain several revisions from the Petition that was originally submitted to the Council. For example, the number of inverters has increased in the project from twelve to nineteen, and the inverters are now slated to be dispersed throughout the array rather than co-located in one area. The module rack orientation has also changed from a 4Up landscape design to a 2Up portrait design. The panels have improved slightly as well. Instead of utilizing Trina 390 Watt panels, the project will now use a combination of Trina 395 and 405 Watt panels.

These changes have resulted in positive changes to the project. Through the use of these design refinements, the project has been able to reduce the number of panels it will use by 138 panels. The original design called for 7,704 panels, however, the new design will have 7,566. Despite fewer panels being used, the project anticipates slightly increasing its output, from approximately 1.95 kW to 1.975 kW. These improvements are relatively small, to be certain, but they have been achieved without changing the project's overall footprint.

3.0 Elements of the D&M Plan

As stated above, the D&M Plan is required to contain the following information:

- a) A final site plan including, but not limited to, final solar panel layout, access roads, electrical interconnection, fence design and equipment pads;
- b) Copy of DEEP General Permit;
- c) Construction site plans that comply with the DEEP-approved Stormwater Pollution Control Plan that include, but are not limited to, site clearing, grading, site phasing, construction laydown areas, erosion and sedimentation controls, and details regarding construction-related environmental mitigation measures;
- d) Final Wetland and Vernal Pool Protection Plan;
- e) Post-construction restoration plan for all disturbed areas of the site;
- f) Post-construction site maintenance and vegetation management plan; and
- g) Contact information for the construction contractor.

Each of these elements is discussed in turn below.

3.1 Final Site Plans

The final site plans (revision date January 8, 2021) are included as an attachment to this D&M Plan, including the Site and Utility Plans found on sheets SP-0, SP-1 and SP-3.

3.2 Copy of the DEEP Stormwater General Permit

The Project obtained a General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("General Permit") from the Connecticut Department of Energy and Environmental Protection ("DEEP") before it commenced construction activities on the site. Cobb Road provided a copy of the General Permit to the Siting Council on May 20, 2020.

3.3 Construction Site Plans

As indicated above, revised drawings (revision date January 8, 2021) are included with this D&M Plan submittal. These were previously provided in Cobb Road's May 9, 2020 D&M Plan submittal.

3.4 Final Wetland and Vernal Pool Protection Plan

The Wetland and Vernal Pool Protection Plan can be found in the attached drawings at Sheet Number DN-4, which was also included in the May 8, 2020 submission.

3.5 Post-Construction Restoration Plan for All Disturbed Areas of the Site

The Post-Construction Restoration Plan for all disturbed areas of the Site can be found in the attached drawings at Sheet Number SP-3, which was also included in the May 8, 2020 submission.

3.6 Post-Construction Site Maintenance and Vegetative Management Plan

The Post-Construction Site Maintenance and Vegetation Management Plan is intended to outline the required work expected to keep the Facility operating as designed throughout its life cycle. The Post-Construction Site Maintenance and Vegetation Management Plan consists of the elements listed below.

Daily System Monitoring

The Facility will be monitored remotely 24 hours a day 7 seven days a week for system performance. Any alerts and/or alarms that are received will be reviewed and technicians will be dispatched as required.

Annual Inspections and Maintenance

The Facility will be inspected twice per year to determine if there are any issues with the system and perform any preventative maintenance that maybe required. The inspections will include the following:

Site Inspection

- Condition of Project access drive (free of obstructions and stable)
- Condition of fencing and gates
- Condition of equipment pads and supports
- Vegetative ground cover, both within and outside the Facility, will be checked for erosion
- Stormwater management basins shall be inspected for damage including rilling and erosion, sediment accumulation, and confirm there is no blockage of outlet control weir
- Any required corrective actions shall be performed promptly

Electrical and Racking Equipment

- Visual inspection of all electrical equipment including but not limited to modules, wiring, conduit, mounting system, switchgear, and transformers
- Inspect ground connections
- Inverter cleaning, testing, and preventative maintenance as required by manufacturer
- Transformer cleaning, testing, and preventative maintenance as required by manufacturer
- Check proper operation of all AC and DC disconnect switches
- Electrical testing of DC strings

Landscaping

The Facility will be mowed twice per year as required to keep panels from shading. The pollinator habitat will be mowed only once per year at the end of the growing season.

Maintenance and Repairs

Any repairs that are identified during the inspections or through dispatched alarm visits will be reviewed with Cobb Road LLC and a priority and timeline for repair will be developed for each instance. Once repairs are completed Cobb Road LLC will close out work orders.

3.7 Contact Information for the Construction Contractor

The construction contractor for the construction of the Project is Hubert E. Butler Construction Company. Its General Manager, Brian Gombotz, can be reached as follows:

Hubert E. Butler Construction Co., LLC
984 Portland-Cobalt Road (Rte. 66)
Portland, CT 06480
Phone 860-342-3880 - Fax 860-342-2142
bg@hbutlerconstruction.com

In addition, the civil work performed at the Project Site is supervised by Bradley J. Parsons, the Manager of Civil Engineering for All-Points Technology Corporation. Mr. Parsons can be contacted as follows:

All-Points Technology Corporation, P.C.
567 Vauxhall Street Extension – Suite 311
Waterford, CT 06385
860.552.2046
bparsons@allpointstech.com

The installation of the modules and racking will be managed by the Pat Munger Construction Company. Its Project Manager, Michael Cormier, can be reached as follows:

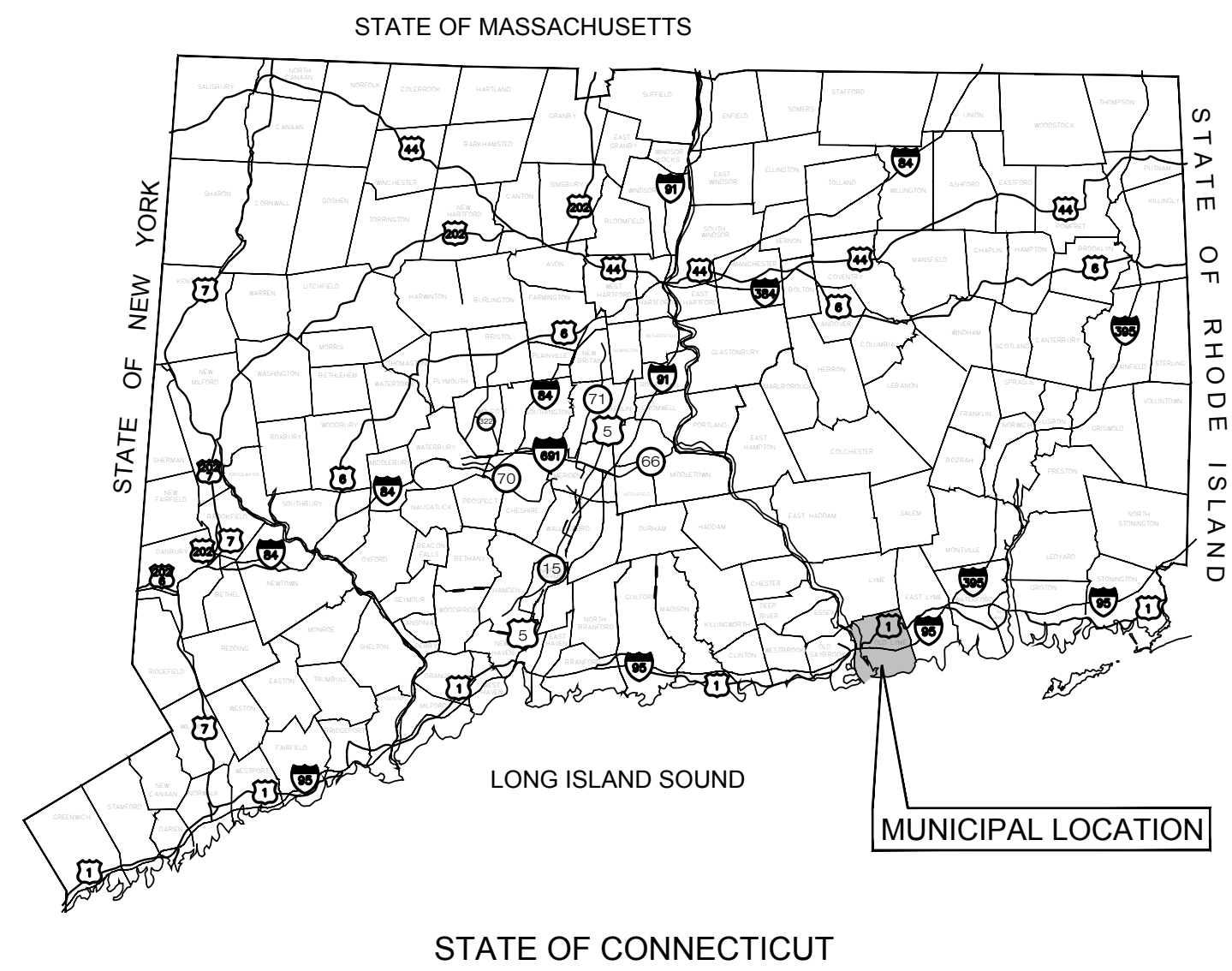
Pat Munger Construction Company

750 East Main Street, Suite 1

Branford CT 06405

Phone 203-483-3645

mcormier@mungerconstruction.com



COBB ROAD LLC

"POWER LINES SOLAR"

20-1 SHORT HILLS RD OLD LYME, CT 06371

LIST OF DRAWINGS

- T-1 TITLE SHEET & INDEX
- 1 & 2 OF 2 EXISTING CONDITIONS PLAN
PROVIDED BY BENNETT & SMILAS ASSOCIATES, INC.
- OP-1 OVERALL LOCUS MAP
- SP-0 OVERALL SITE PLAN
- SP-1 SITE & UTILITY PLAN
- SP-2 SITE & UTILITY PLAN
- SP-3 FINAL RESTORATION SITE PLAN
- GP-1 GRADING & DRAINAGE PLAN
- GP-2 GRADING & DRAINAGE PLAN
- EC-1 SEDIMENTATION & EROSION CONTROL PLAN
- EC-2 SEDIMENTATION & EROSION CONTROL PLAN
- EC-3 SEDIMENTATION & EROSION CONTROL NOTES
- EC-4 SEDIMENTATION & EROSION CONTROL DETAILS
- DN-1 SITE DETAILS
- DN-2 SITE DETAILS
- DN-3 SITE NOTES
- DN-4 ENVIRONMENTAL NOTES

SITE INFORMATION

SITE NAME: "POWER LINES SOLAR"
 LOCATION: 20-1 SHORT HILLS RD
 OLD LYME, CT 06371

SITE TYPE/DESCRIPTION: ADD (1) GROUND MOUNTED SOLAR PANEL
 ARRAY W/ ASSOCIATED EQUIPMENT.

PROPERTY OWNER: HOWARD S. TOOKER
 20-1 SHORT HILLS RD
 OLD LYME, CT 06371

APPLICANT: COBB ROAD LLC
 9 NOVELTY LANE, UNIT 9B
 ESSEX, CT 06426

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

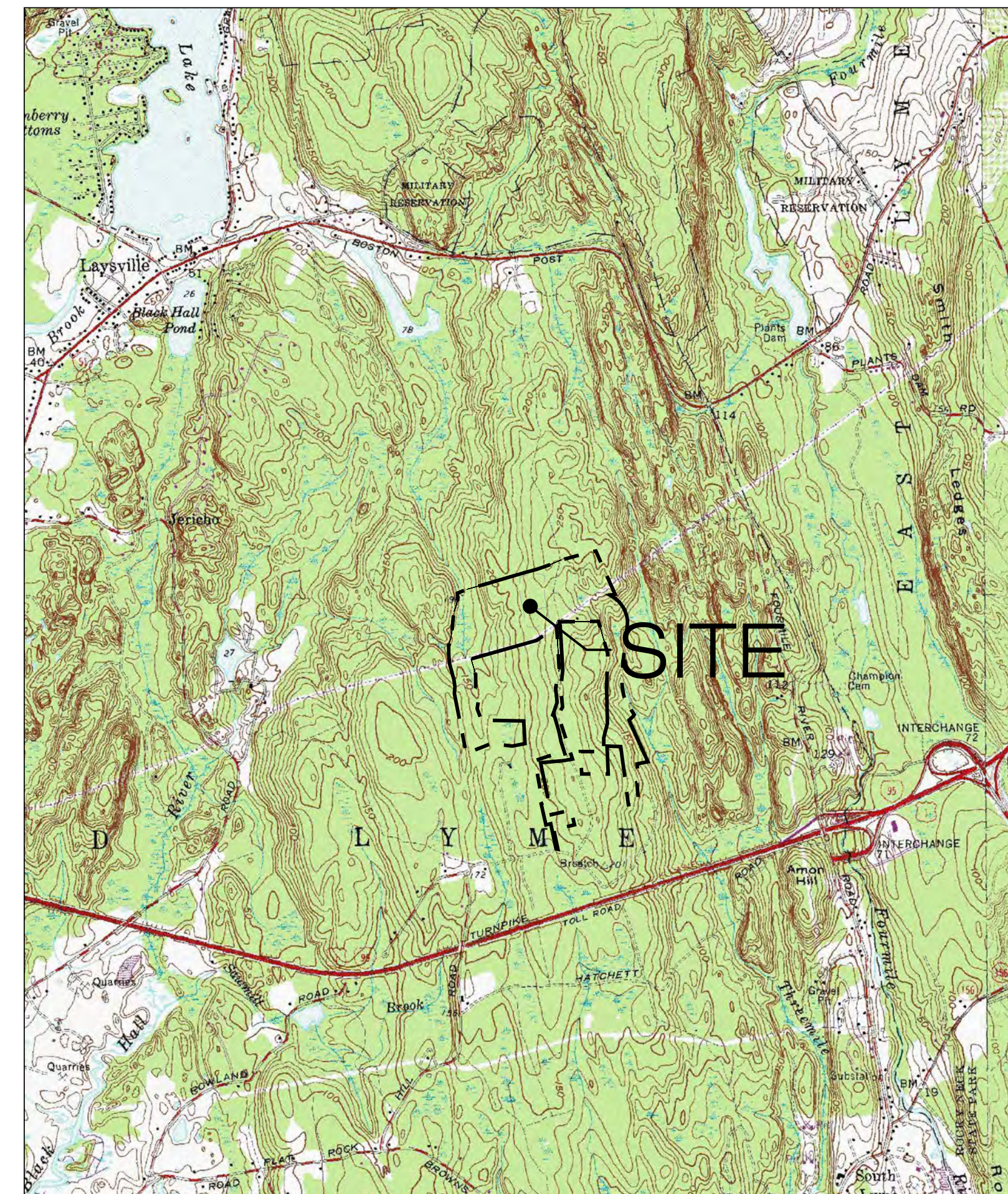
LATITUDE: 42°19'59.26" N
 LONGITUDE: 72°16'37.00" W
 ELEVATION: 231'± AMSL

MBLU: MAP 24, LOT 13
 ZONE: RU-80 (RESIDENTIAL DISTRICT)
 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: 120.23± AC.
 TOTAL DISTURBED AREA: 12.69± AC.
 TOTAL CLEARING AREA: 12.33± AC.

APPROX. VOLUME OF CUT: 2,876± CY
 APPROX. VOLUME OF FILL: 2,266± CY
 APPROX. NET VOLUME: 610± CY OF CUT

USGS TOPOGRAPHIC MAP



SCALE: 1" = 2000' SOURCE: USGS 7.5 OLD LYME QUADRANGLE, CT 2012

COBB ROAD LLC

9 NOVELTY LANE, UNIT 9B
 ESSEX, CT 06426



3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
 KILLINGWORTH, CT 06419 FAX: (860)-663-0935
 WWW.ALLPOINTSTECH.COM

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	01/27/19	FOR GENERAL PERMIT: BJP
1	04/09/20	FOR CONSTRUCTION: BJP
2	05/27/20	PRE-CON NOTES EC3: BJP
3	06/11/20	CON NOTES EC1&EC2: BJP
4	01/08/21	MODULE LAYOUT D&M: BJP
5		
6		

DESIGN PROFESSIONAL OF RECORD

PROF: BRADLEY J. PARSONS P.E.
 COMP: ALL-POINTS TECHNOLOGY
 CORPORATION
 ADD: 3 SADDLEBROOK DRIVE
 KILLINGWORTH, CT 06419

OWNER: HOWARD S. TOOKER
 ADDRESS: 20-1 SHORT HILLS RD
 OLD LYME, CT 06371

POWER LINES SOLAR

SITE: 20-1 SHORT HILLS RD
 ADDRESS: OLD LYME, CT 06371

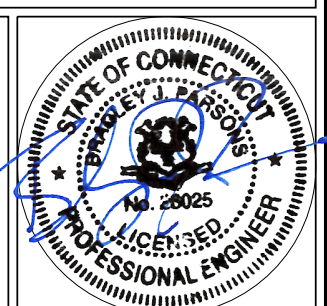
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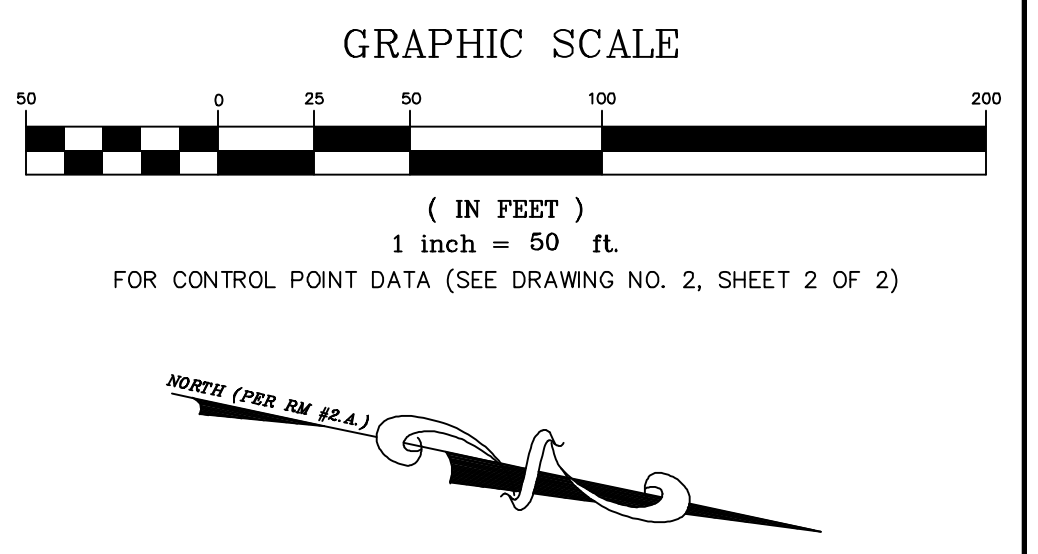
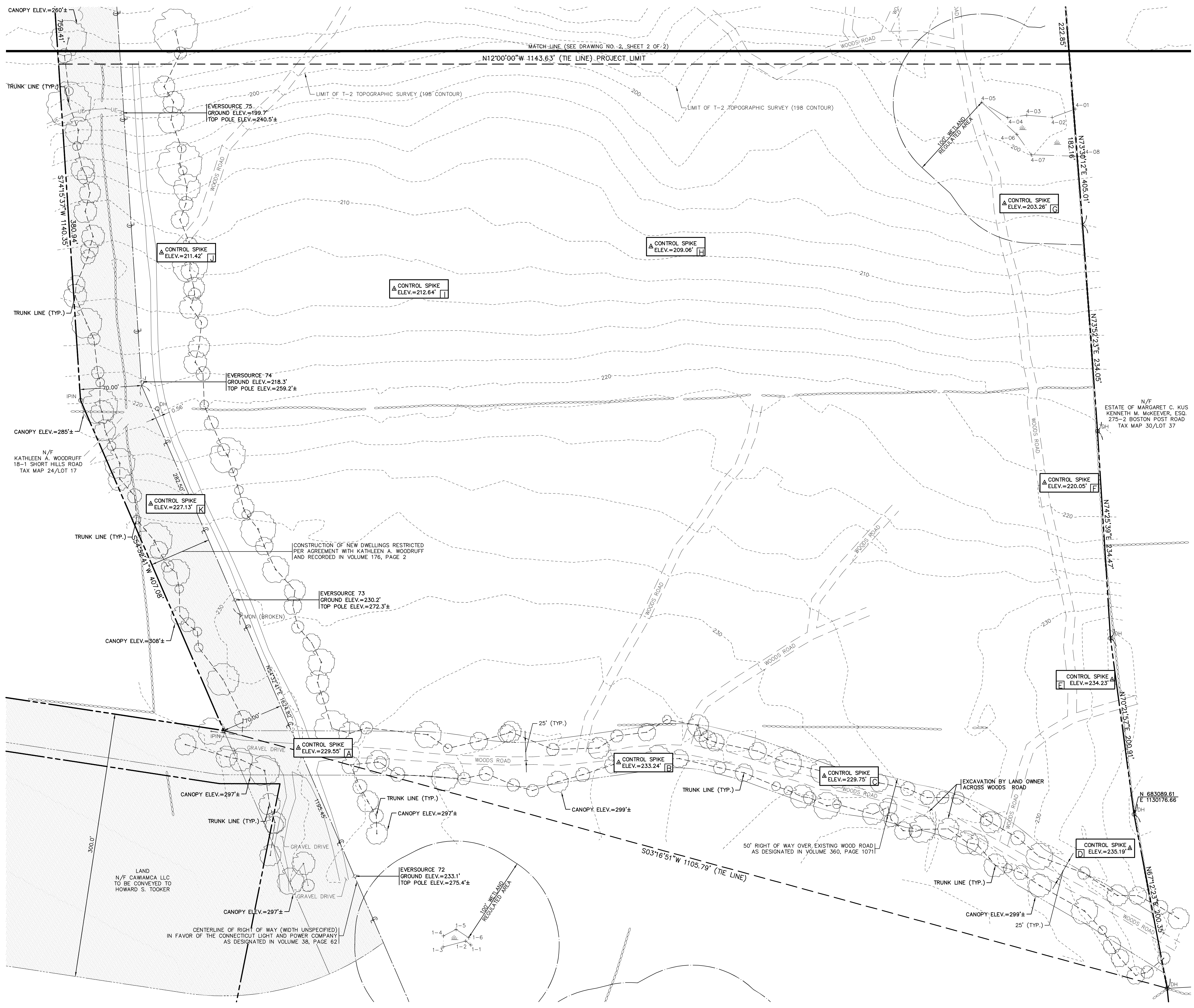
DATE: 01/27/19
 DRAWN BY: JT
 CHECKED BY: BJP

SHEET TITLE:
TITLE SHEET & INDEX

SHEET NUMBER:

T-1





LEGEND

EXISTING	PROPOSED	PROPERTY/HIGHWAY LINE
⊙	⊙	IRON PIPE/PIPE/DH
⊠	⊠	IRON PIN/IRON PIPE/DRILL HOLE
⊡	⊡	CONCRETE MONUMENT
⊠	⊠	CONTROL POINT
⊠	⊠	CONTROL POINT DESIGNATION
⊠	⊠	STONE WALL
---	---	TIE LINE
---	---	CENTER LINE
---	---	EASEMENT LINE
---	---	CONTOUR
---	---	SPOT ELEVATION
---	---	WOODS ROAD/TRAIL
---	---	INLAND WETLANDS/FLAG NO.
---	---	MARSH/WETLAND
---	---	WETLAND REGULATED AREA
---	---	STREAM
---	---	TREE LINE
---	---	TREE
---	---	TREE TRUNK LINE

- NOTES:**
- THIS SURVEY AND MAP HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300B-1 THROUGH 20-300B-20, THE MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON JUNE 21, 1996 AND AMENDED OCTOBER 26, 2018.
 - THE HORIZONTAL ACCURACY CONFORMS TO CLASS A-2, AND THE TOPOGRAPHIC ACCURACY CONFORMS TO CLASS T-2.
 - THE BOUNDARY DETERMINATION CATEGORY IS A PENDANT RESURVEY OF THE MAP REFERENCED IN NOTE #2A.
 - THE TYPE OF SURVEY IS A PARTIAL PROPERTY SURVEY. THIS MAP IS INTENDED TO DEPICT OR NOTE THE LOCATION OF EXISTING PROPERTY LINES, LINES OF OCCUPATION, EASEMENTS, ENCROACHMENTS, BUILDINGS AND OTHER SITE IMPROVEMENTS.
 - REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS ENTITLED:
 - "LOT LINE MODIFICATION PLAN EXISTING CONDITIONS LAND NOW OR FORMERLY HOWARD S. TOOKER LAND NOW OR FORMERLY CAWAMACA LLC GREAT OAK ROAD OLD LYME CONNECTICUT" BY: BENNETT & SMILAS ASSOCIATES, INC.; SCALE: 1"=100'; SHEETS: 1-3 OF 3; DATED: FEB. 19, 2019 AND REVISED LAST: 04/10/19.
 - BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND WERE OBTAINED BY GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS, BY: URS CORPORATION ON APRIL 26, 2005.
 - ELEVATIONS SHOWN HEREON ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE OBTAINED BY GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS, BY: URS CORPORATION ON APRIL 26, 2005.
 - CONTOURS SHOWN WITHIN THE PROJECT AREA ARE BASED UPON A FIELD SURVEY BY BENNETT & SMILAS ASSOCIATES, INC. ON APRIL 15-19, 2019. CONTOURS OUTSIDE OF THE PROJECT AREA ARE BASED UPON AERIAL TOPOGRAPHIC MAPPING PROVIDED BY EAST COAST MAPPING, EGM., AND DATED JUNE 6, 2005.
 - THE CURRENT PROPERTY OWNER OF RECORD IS HOWARD S. TOOKER OF 20-1 SHORT HILLS ROAD OLD LYME, CONNECTICUT AS DESIGNATED IN VOLUME 108, PAGE 135 IN THE TOWN OF OLD LYME CLERKS' OFFICE.
 - PROPERTY LOCATED AT 20-1 SHORT HILLS ROAD, IS SHOWN ON TAX MAP 24, LOT 13 IN THE TOWN OF OLD LYME ASSESSOR'S OFFICE.
 - THIS PROPERTY IS ZONED RU-80, RESIDENTIAL DISTRICT. THE MINIMUM LOT AREA IS 80,000 SQUARE FEET AND THE MINIMUM SETBACK REQUIREMENTS ARE GENERALLY: FRONT: 50 FEET, SIDE: 35 FEET, AND REAR: 35 FEET.
 - THE TOTAL AREA OF THIS PROPERTY AT 20-1 SHORT HILLS ROAD IS 5,237,098 SQUARE FEET (120,227 ACRES)
 - PROPERTY LOCATED AT 20-1 SHORT HILLS ROAD IS SUBJECT TO THE FOLLOWING EASEMENTS AND RESTRICTIONS:
 - 50' RIGHT OF WAY OVER EXISTING WOODS ROAD AS DESIGNATED IN VOLUME 360, PAGE 1071 IN THE TOWN OF OLD LYME CLERKS' OFFICE.
 - CONSTRUCTION OF DWELLINGS RESTRICTED PER AGREEMENT WITH KATHLEEN A. WOODRUFF AS DESIGNATED IN VOLUME 176, PAGE 2 IN THE TOWN OF OLD LYME CLERKS' OFFICE.
 - RIGHT OF WAY IN FAVOR OF THE CONNECTICUT LIGHT AND POWER COMPANY AS DESIGNATED IN VOLUME 38, PAGE 62 IN THE TOWN OF OLD LYME CLERKS' OFFICE.
 - INLAND WETLAND LIMITS SHOWN HEREON WERE DELINEATED BY DEAN GUSTAFSON, SENIOR WETLAND SCIENTIST, ALL-POINTS TECHNOLOGY CORPORATION, P.C. ON MARCH 21, 2019 AND FIELD LOCATED BY ALL-POINTS TECHNOLOGY CORPORATION, P.C. ON MARCH 21, 2019. (WETLAND FLAGS 1-1 THRU 1-6, 3-01 THRU 3-10, AND 4-01 THRU 4-08).
 - REMAINING INLAND WETLAND LIMITS SHOWN HEREON WERE DELINEATED BY HARVEY LUCE, CERTIFIED PROFESSIONAL SOIL SCIENTIST & SOIL CLASSIFIER IN JUNE THROUGH AUGUST OF 2005 AND IN JUNE 2007. WETLANDS WERE FIELD LOCATED BY BENNETT & SMILAS ASSOCIATES, INC. IN JULY THROUGH AUGUST OF 2005 AND IN JUNE 2007.
 - THE LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS, MAPPING, INFORMATION PROVIDED BY OTHERS AND OTHER SOURCES. THEIR TRUE LOCATION MAY VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. IF APPLICABLE, UTILIZE THE "CALL BEFORE YOU DIG" NUMBER (1-800-922-4455) TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.

BENNETT & SMILAS ASSOCIATES, INC.
415 KILLINGWORTH ROAD, P.O. BOX 241
HIGGANUM, CONNECTICUT 06441
PHONE (860) 346-4663 FAX (860) 346-8868

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

Michael J. Bennett
MICHAEL J. BENNETT R.L.S. #10831

SEAL

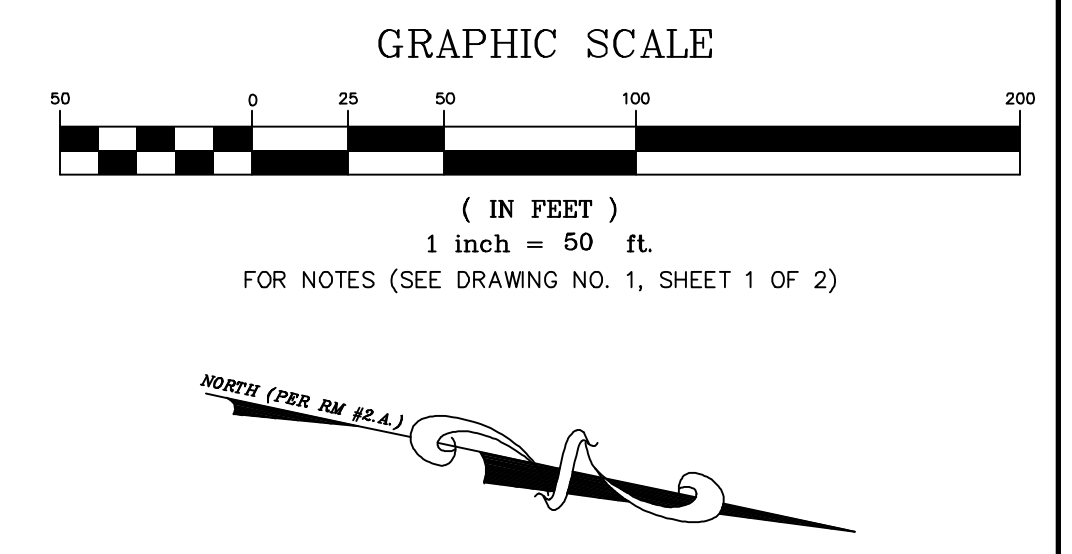
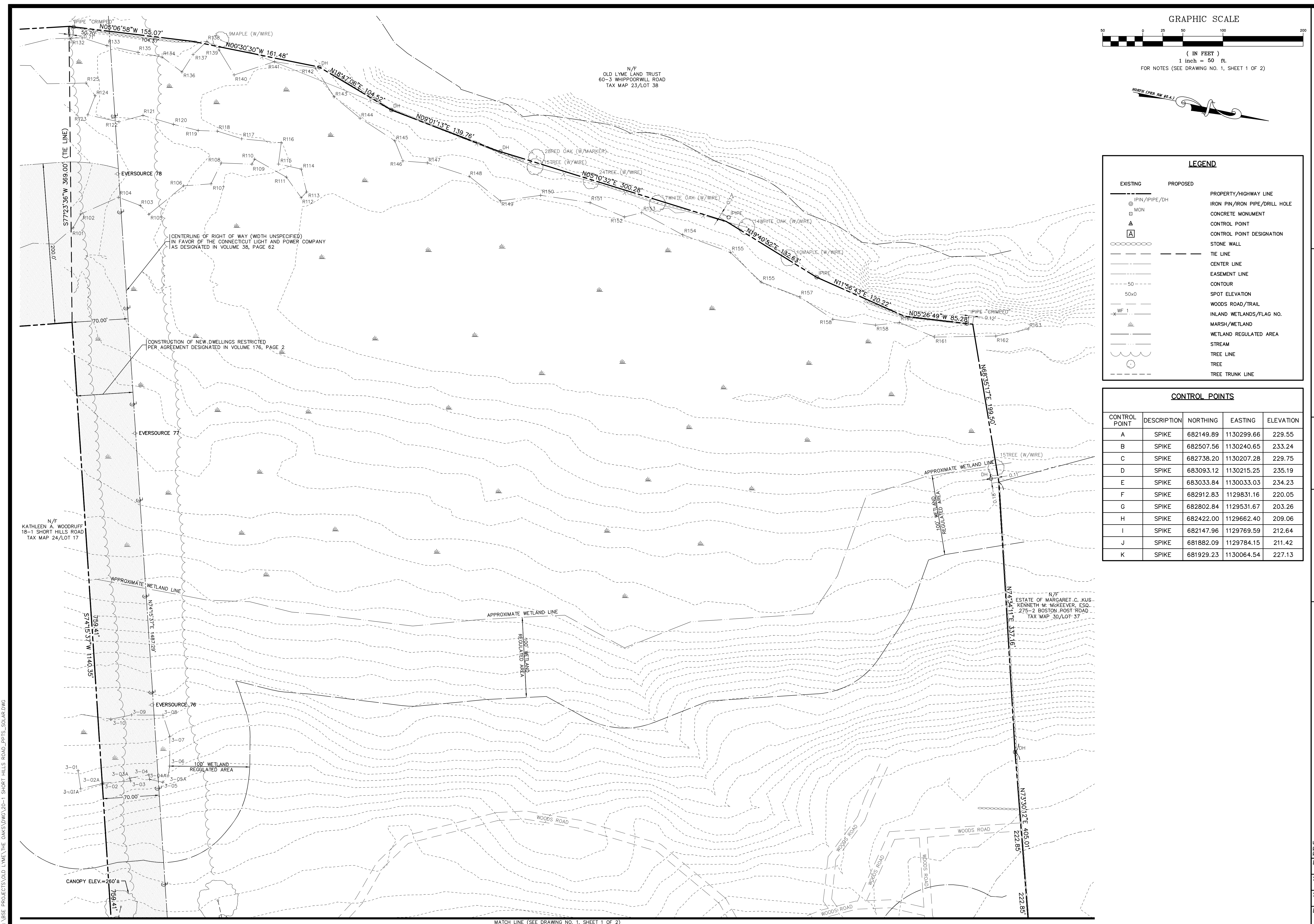
THE ORIGINAL SEAL OF THE SURVEYOR MUST BE AFFIXED HERE FOR THIS MAP TO BE VALID

MICHAEL J. BENNETT, L.S. #10831

PARTIAL PROPERTY & TOPOGRAPHIC SURVEY
LAND NOW OR FORMERLY
HOWARD S. TOOKER
20-1 SHORT HILLS ROAD
OLD LYME, CONNECTICUT

DATE: MAY 19, 2019
SCALE: 1"=50'
SHEET: 1 OF 2
DWG. NO.: 1

F:\BSE PROJECTS\OLD LYME\DWG\20-1 SHORT HILLS ROAD_PRTS_SOLAR.DWG



LEGEND

EXISTING	PROPOSED	PROPERTY/HIGHWAY LINE
⊙	⊙	IRON PIN/IRON PIPE/DRILL HOLE
□	□	CONCRETE MONUMENT
△	△	CONTROL POINT
⊠	⊠	CONTROL POINT DESIGNATION
○	○	STONE WALL
---	---	TIE LINE
---	---	CENTER LINE
---	---	EASEMENT LINE
---	---	CONTOUR
50x0	50x0	SPOT ELEVATION
WF 1	WF 1	WOODS ROAD/TRAIL
---	---	INLAND WETLANDS/FLAG NO.
---	---	MARSH/WETLAND
---	---	WETLAND REGULATED AREA
---	---	STREAM
---	---	TREE LINE
---	---	TREE
---	---	TREE TRUNK LINE

CONTROL POINTS

CONTROL POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
A	SPIKE	682149.89	1130299.66	229.55
B	SPIKE	682507.56	1130240.65	233.24
C	SPIKE	682738.20	1130207.28	229.75
D	SPIKE	683093.12	1130215.25	235.19
E	SPIKE	683033.84	1130033.03	234.23
F	SPIKE	682912.83	1129831.16	220.05
G	SPIKE	682802.84	1129531.67	203.26
H	SPIKE	682422.00	1129662.40	209.06
I	SPIKE	682147.96	1129769.59	212.64
J	SPIKE	681882.09	1129784.15	211.42
K	SPIKE	681929.23	1130064.54	227.13

BENNETT & SMILAS ASSOCIATES, INC.
415 KILLINGWORTH ROAD, P.O. BOX 241
HICGANUM, CONNECTICUT 06441
PHONE (860) 346-4663 FAX (860) 346-8868

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

Michael J. Bennett
MICHAEL J. BENNETT R.L.S. #10831

SEAL

THE ORIGINAL SEAL OF THE SURVEYOR MUST BE ATTACHED HERE FOR THIS MAP TO BE VALID

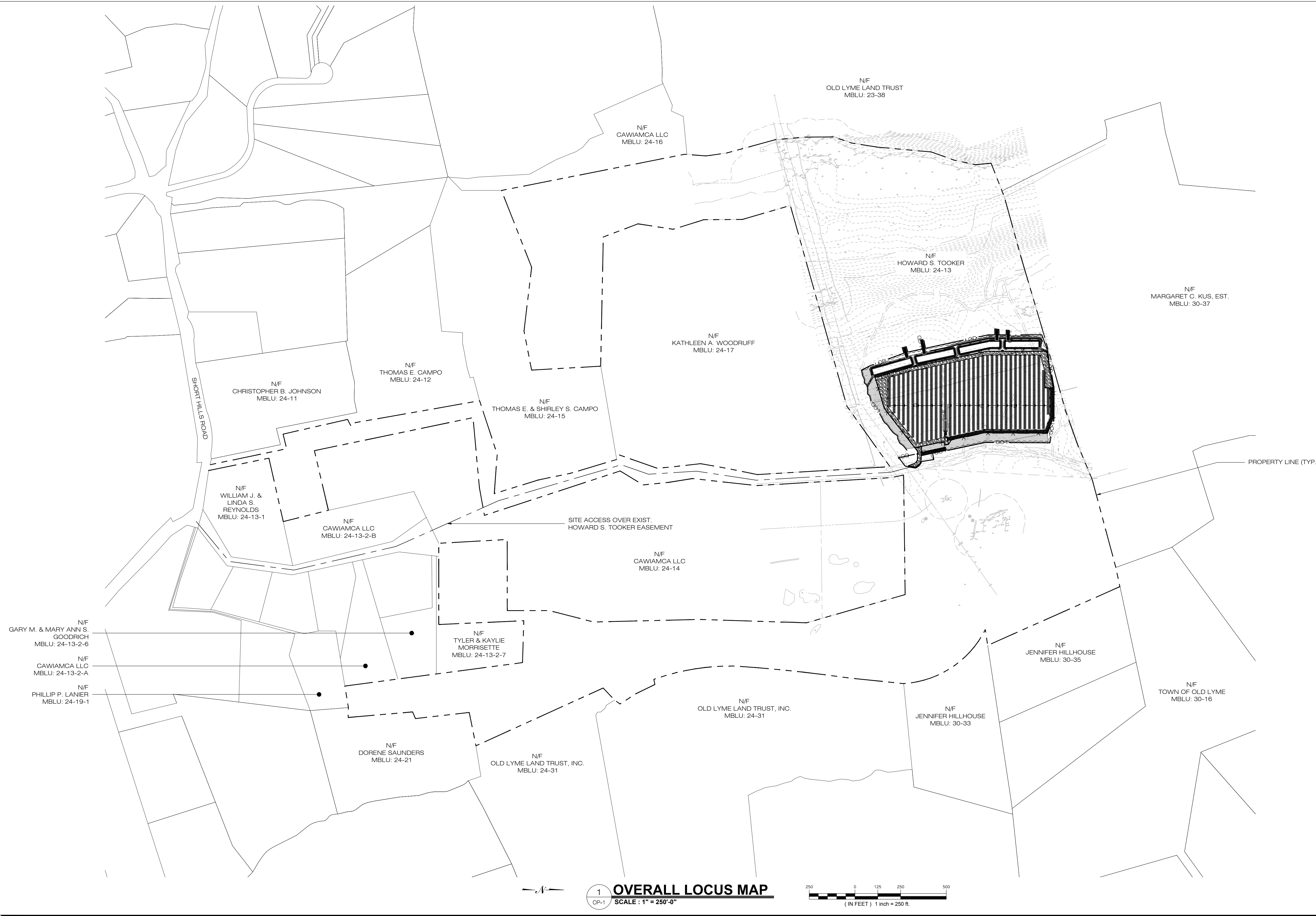
MICHAEL J. BENNETT, L.S. #10831

PARTIAL PROPERTY & TOPOGRAPHIC SURVEY
LAND NOW OR FORMERLY
HOWARD S. TOOKER
20-1 SHORT HILLS ROAD
OLD LYME, CONNECTICUT

DATE: MAY 19, 2019
SCALE: 1"=50'
SHEET: 2 OF 2
DWG. NO.: 2

F:\BSE_PROJECTS\OLD LINE\THE OAKS\DWG\20-1 SHORT HILLS ROAD_PRTS_SOLAR.DWG

MATCH LINE (SEE DRAWING NO. 1, SHEET 1 OF 2)



COBB ROAD LLC

9 NOVELTY LANE, UNIT 9B
ESSEX, CT 06426



3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	01/27/19	FOR GENERAL PERMIT: BJP
1	04/09/20	FOR CONSTRUCTION: BJP
2	05/27/20	PRE-CON NOTES EC3: BJP
3	06/11/20	CON NOTES EC1&EC2: BJP
4	01/08/21	MODULE LAYOUT D&M: BJP
5		
6		

DESIGN PROFESSIONAL OF RECORD

PROF: BRADLEY J. PARSONS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: HOWARD S. TOOKER
ADDRESS: 20-1 SHORT HILLS RD
OLD LYME, CT 06371

POWER LINES SOLAR

SITE: 20-1 SHORT HILLS RD
ADDRESS: OLD LYME, CT 06371

APT FILING NUMBER: CT580100

DATE: 01/27/19
DRAWN BY: JT
CHECKED BY: BJP

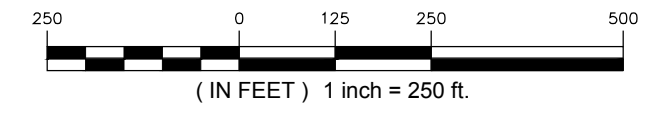
SHEET TITLE:

OVERALL LOCUS MAP

SHEET NUMBER:

OP-1

1 OVERALL LOCUS MAP
OP-1 SCALE: 1" = 250'-0"



COBB ROAD LLC

9 NOVELTY LANE, UNIT 9B
ESSEX, CT 06426



3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

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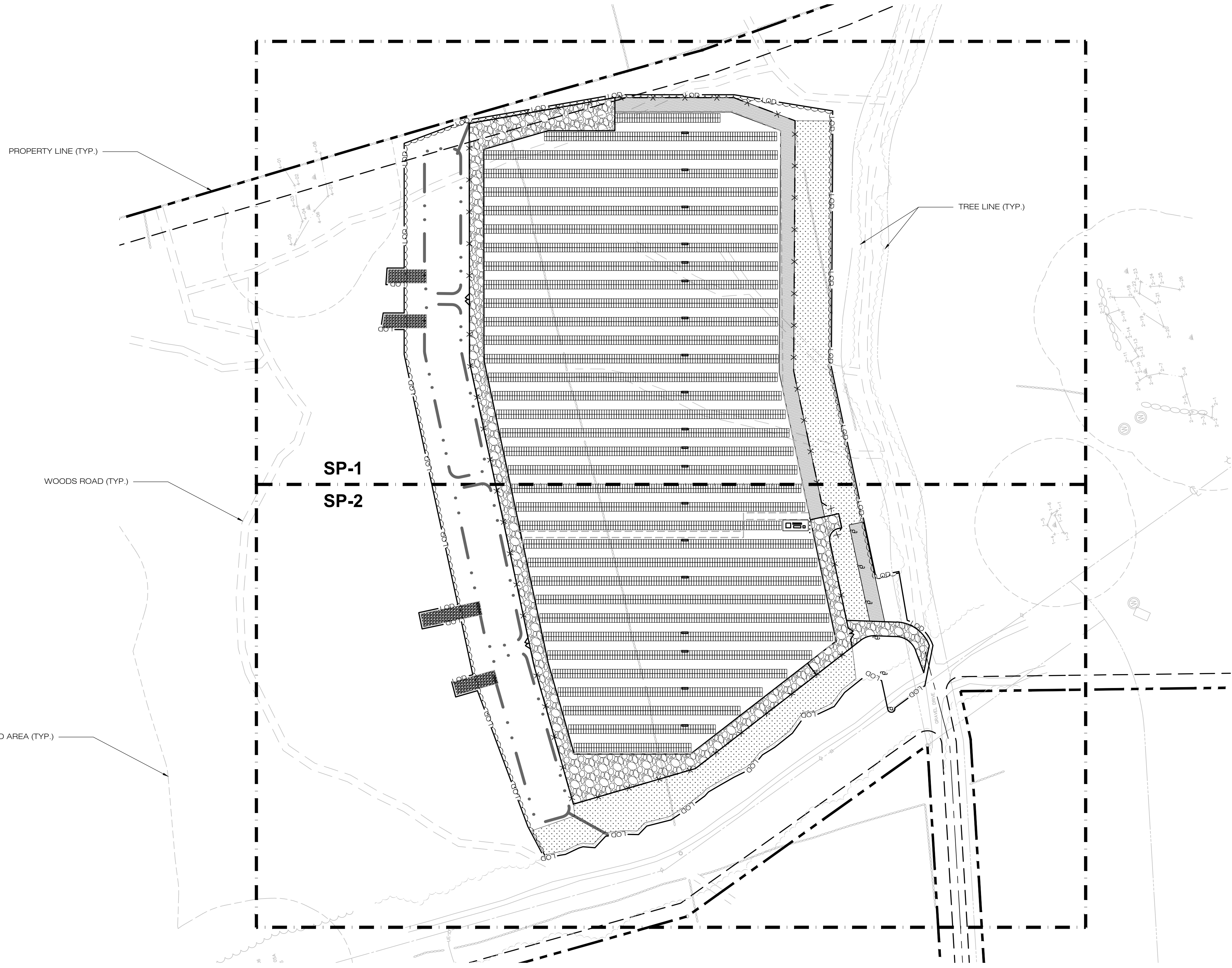
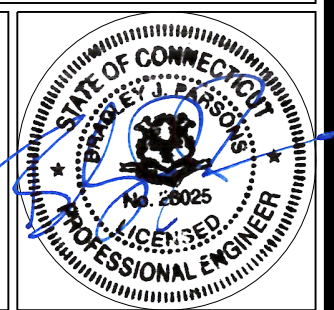
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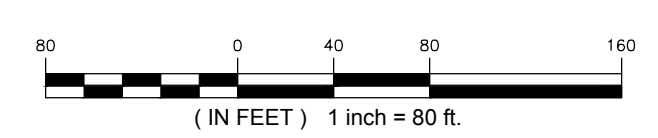
SHEET TITLE:
OVERALL SITE PLAN

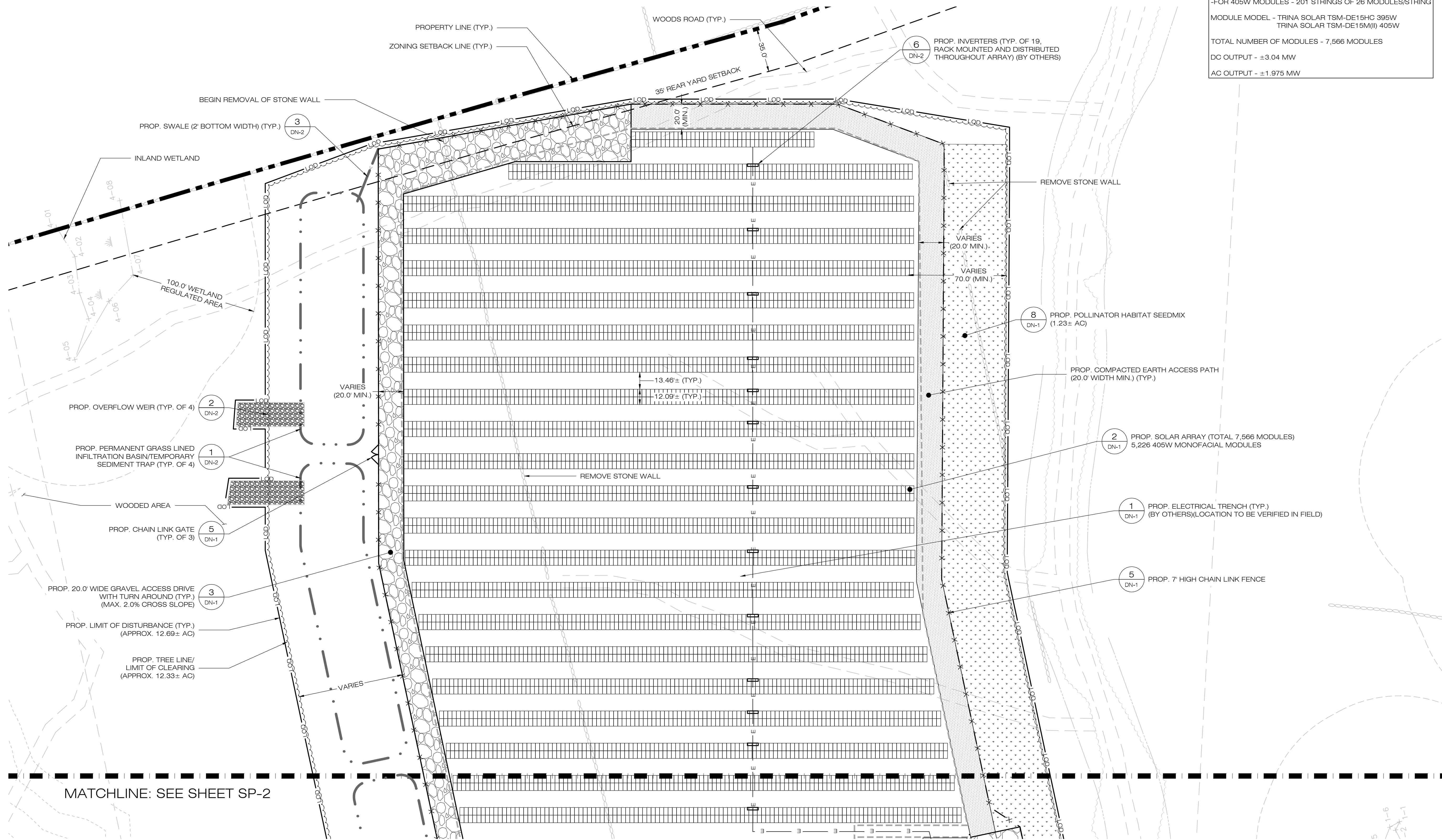
SHEET NUMBER:

SP-0



1 OVERALL SITE PLAN
SP-0 SCALE: 1" = 80'-0"





SOLAR FACILITY SYSTEM INFORMATION:
 PROP. TILT - 25 DEGREES
 INTER-ROW SPACING - VARIES (SEE PLAN)
 MODULE STRINGING - VARIES
 -FOR 395W MODULES - 90 STRINGS OF 26 MODULES/STRING
 -FOR 405W MODULES - 201 STRINGS OF 26 MODULES/STRING
 MODULE MODEL - TRINA SOLAR TSM-DE15HC 395W
 TRINA SOLAR TSM-DE15M(I) 405W
 TOTAL NUMBER OF MODULES - 7,566 MODULES
 DC OUTPUT - ±3.04 MW
 AC OUTPUT - ±1.975 MW

COBB ROAD LLC
 9 NOVELTY LANE, UNIT 9B
 ESSEX, CT 06426



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DESIGN PROFESSIONAL OF RECORD

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 COMP: ALL-POINTS TECHNOLOGY CORPORATION
 ADD: 3 SADDLEBROOK DRIVE
 KILLINGWORTH, CT 06419
 OWNER: HOWARD S. TOOKER
 ADDRESS: 20-1 SHORT HILLS RD
 OLD LYME, CT 06371

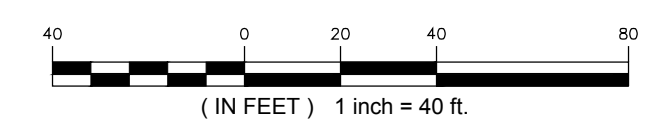
POWER LINES SOLAR

SITE: 20-1 SHORT HILLS RD
 ADDRESS: OLD LYME, CT 06371
 APT FILING NUMBER: CT580100
 DATE: 01/27/19
 DRAWN BY: JT
 CHECKED BY: BJP

SHEET TITLE:
SITE & UTILITY PLAN

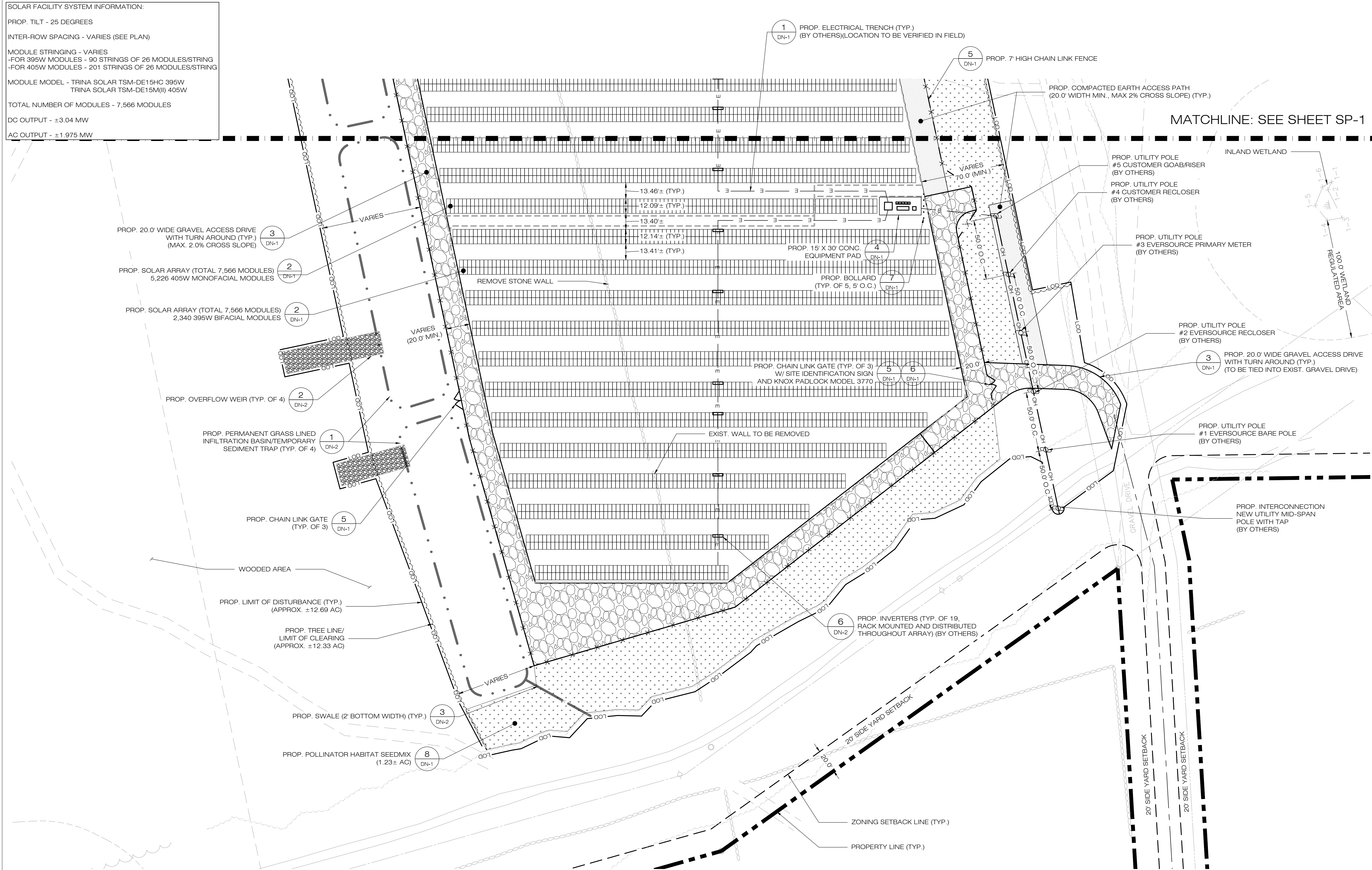
SHEET NUMBER:
SP-1

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



MATCHLINE: SEE SHEET SP-2

SOLAR FACILITY SYSTEM INFORMATION:
 PROP. TILT - 25 DEGREES
 INTER-ROW SPACING - VARIES (SEE PLAN)
 MODULE STRINGING - VARIES
 -FOR 395W MODULES - 90 STRINGS OF 26 MODULES/STRING
 -FOR 405W MODULES - 201 STRINGS OF 26 MODULES/STRING
 MODULE MODEL - TRINA SOLAR TSM-DE15HC 395W
 TRINA SOLAR TSM-DE15M(I) 405W
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 DC OUTPUT - ±3.04 MW
 AC OUTPUT - ±1.975 MW



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 PHONE: (860)-663-1697, FAX: (860)-663-0935, WWW.ALLPOINTSTECH.COM

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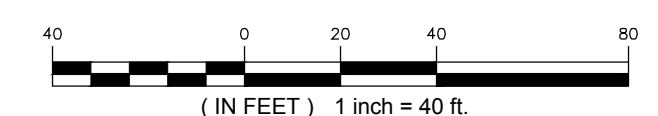
POWER LINES SOLAR
 SITE ADDRESS: 20-1 SHORT HILLS RD, OLD LYME, CT 06371
 APT FILING NUMBER: CT580100
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SHEET TITLE:
SITE & UTILITY PLAN

SHEET NUMBER:
SP-2

STATE OF CONNECTICUT PROFESSIONAL ENGINEER

1 SITE & UTILITY PLAN
 SP-2 SCALE: 1" = 40'-0"



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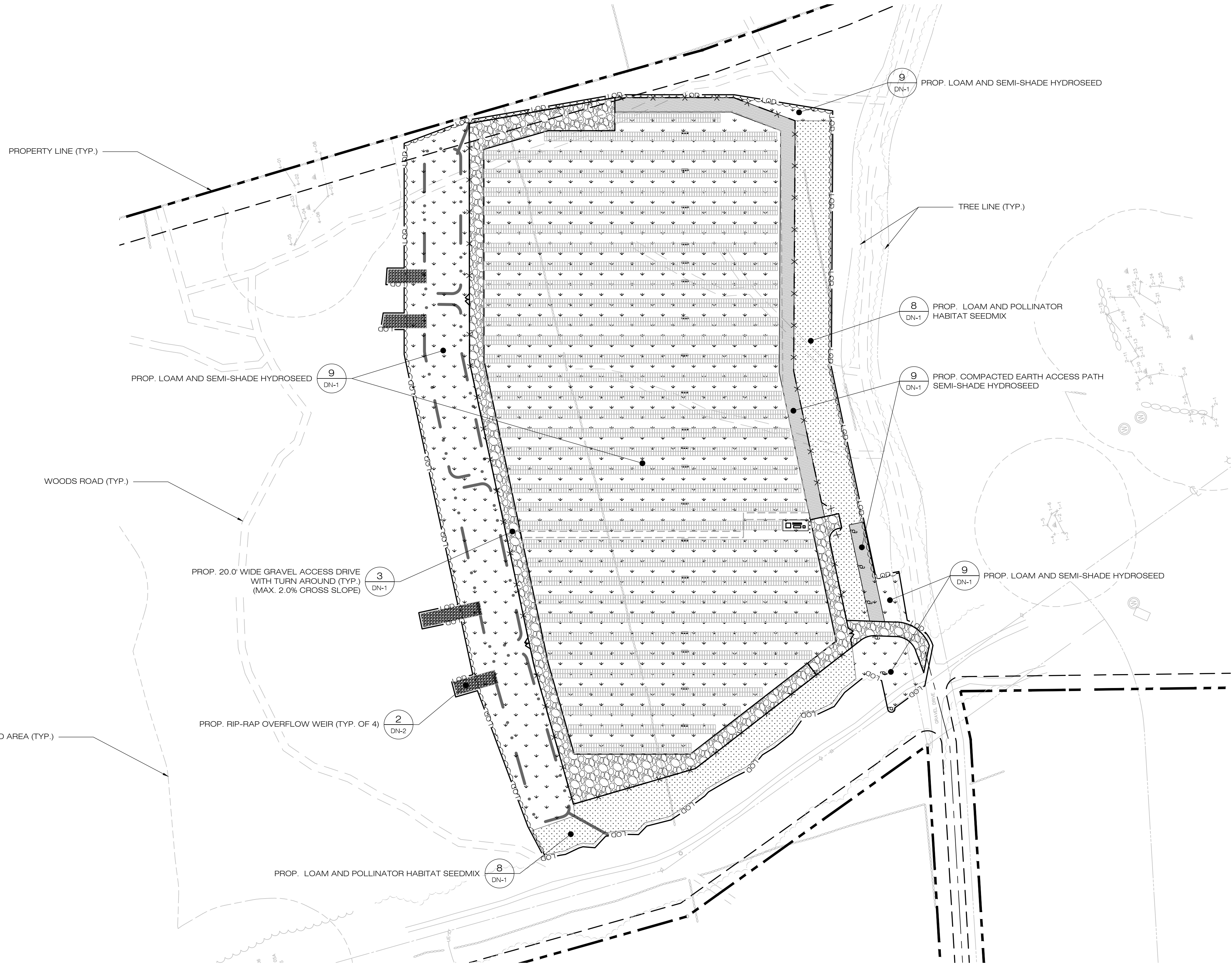
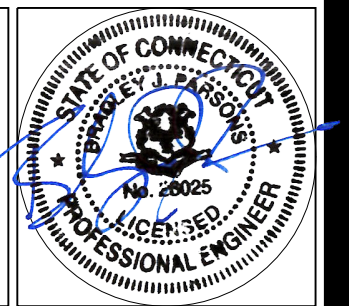
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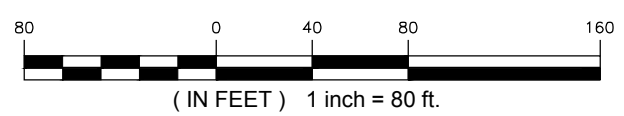
SHEET TITLE:
**FINAL RESTORATION
SITE PLAN**

SHEET NUMBER:

SP-3



1 FINAL RESTORATION SITE PLAN
SP-0 SCALE: 1" = 80'-0"



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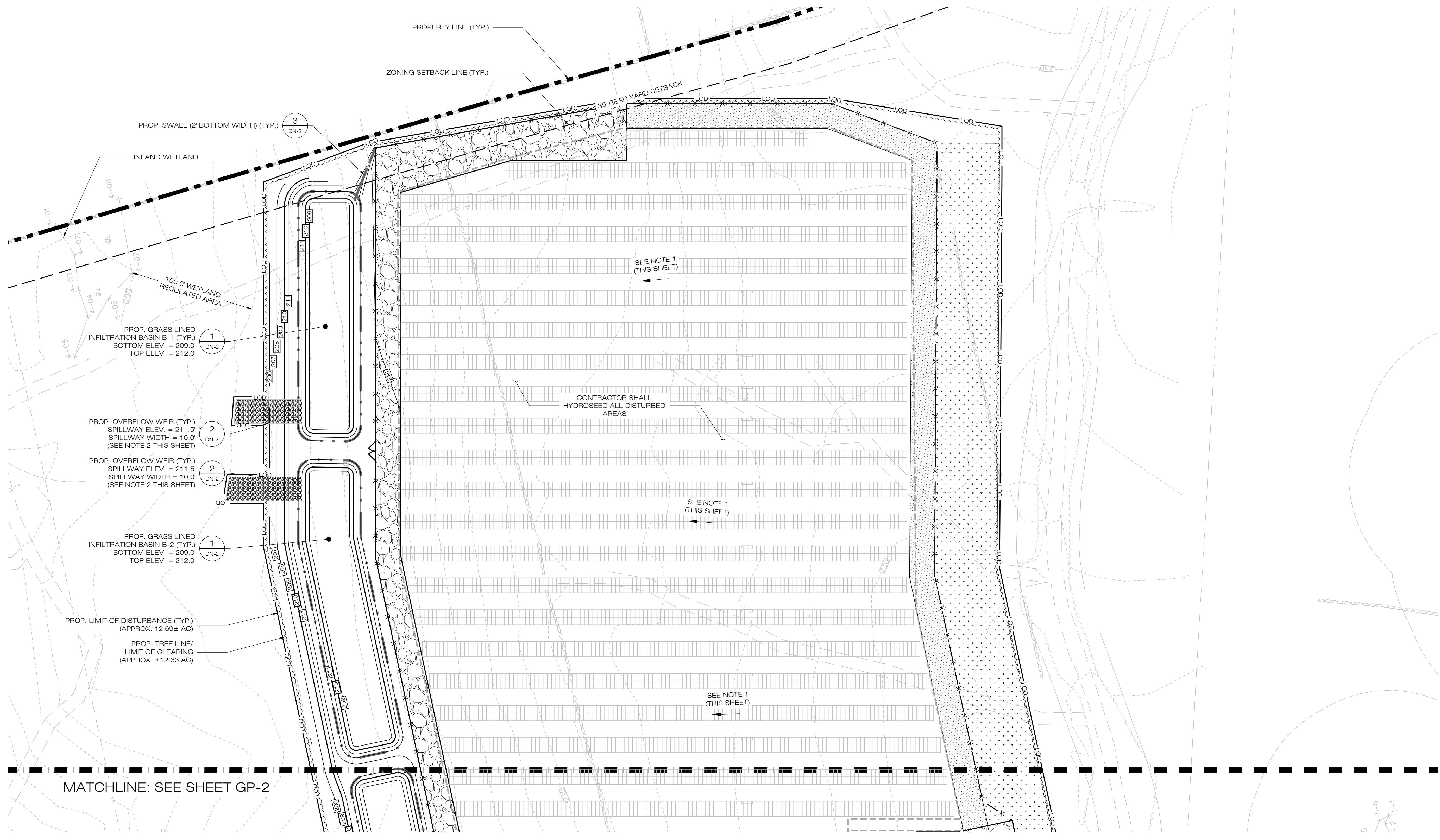
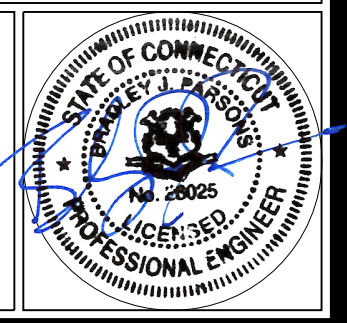
DATE: 01/27/19
DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:

GRADING & DRAINAGE PLAN

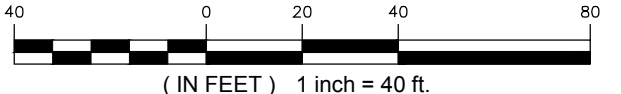
SHEET NUMBER:

GP-1



MATCHLINE: SEE SHEET GP-2

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



NOTES:
1. GRADE/SHAPE AREA EAST OF COMPACTED EARTH ACCESS PATH TO SOLAR ARRAY AREA.



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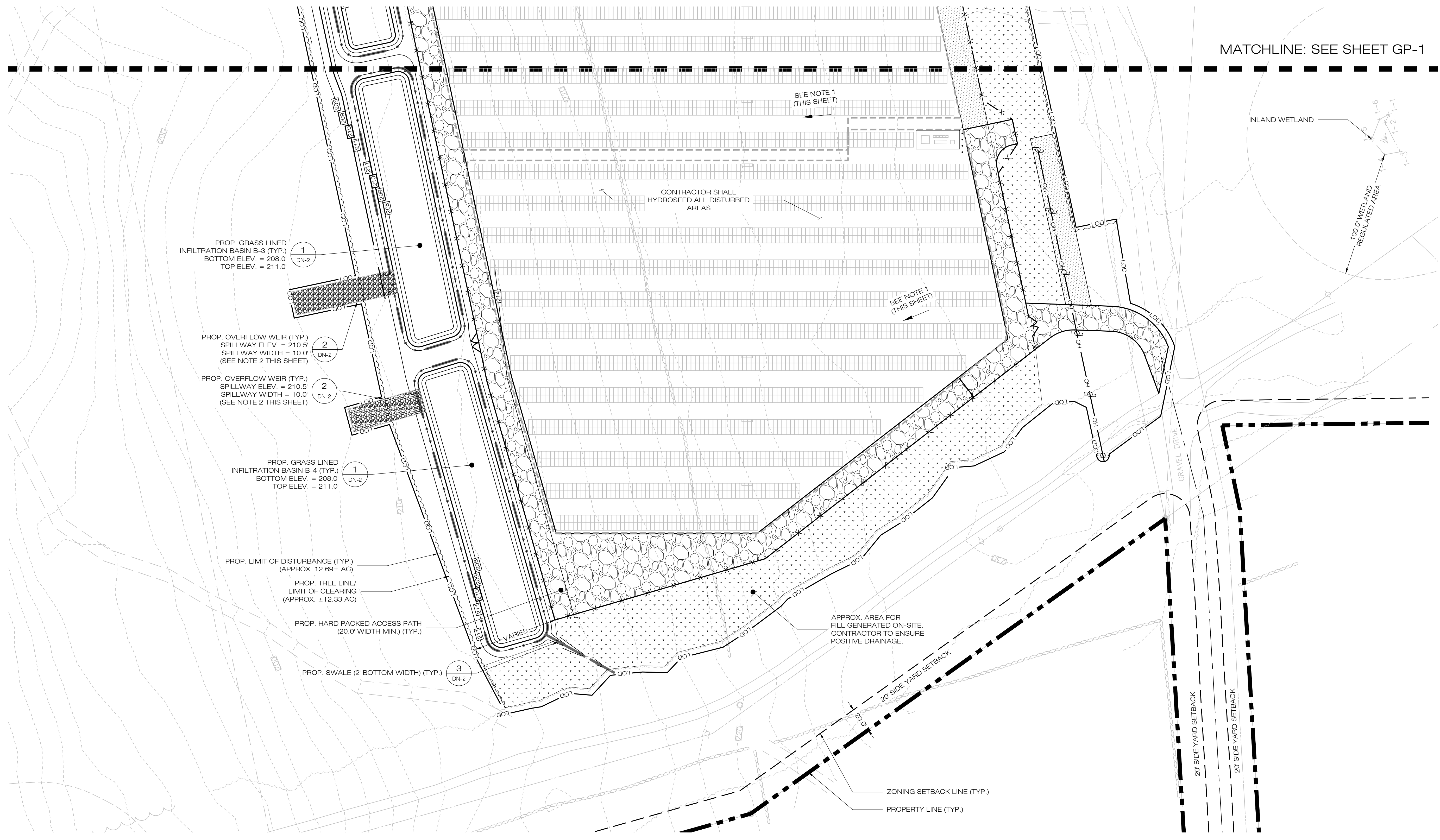
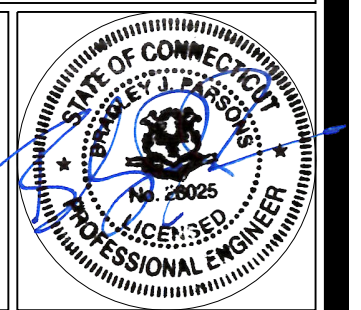
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DATE: 01/27/19 CHECKED BY: BJP

SHEET TITLE:
GRADING & DRAINAGE PLAN

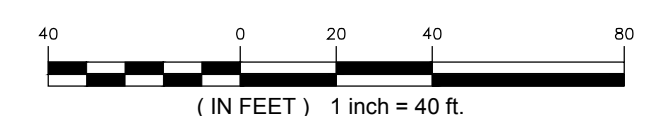
SHEET NUMBER:

GP-2



1 GRADING & DRAINAGE PLAN

GP-2 SCALE: 1" = 40'-0"



NOTES:
1. GRADE/SHAPE AREA EAST OF COMPACTED EARTH ACCESS PATH TO SOLAR ARRAY AREA.

COBB ROAD LLC

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ESSEX, CT 06426



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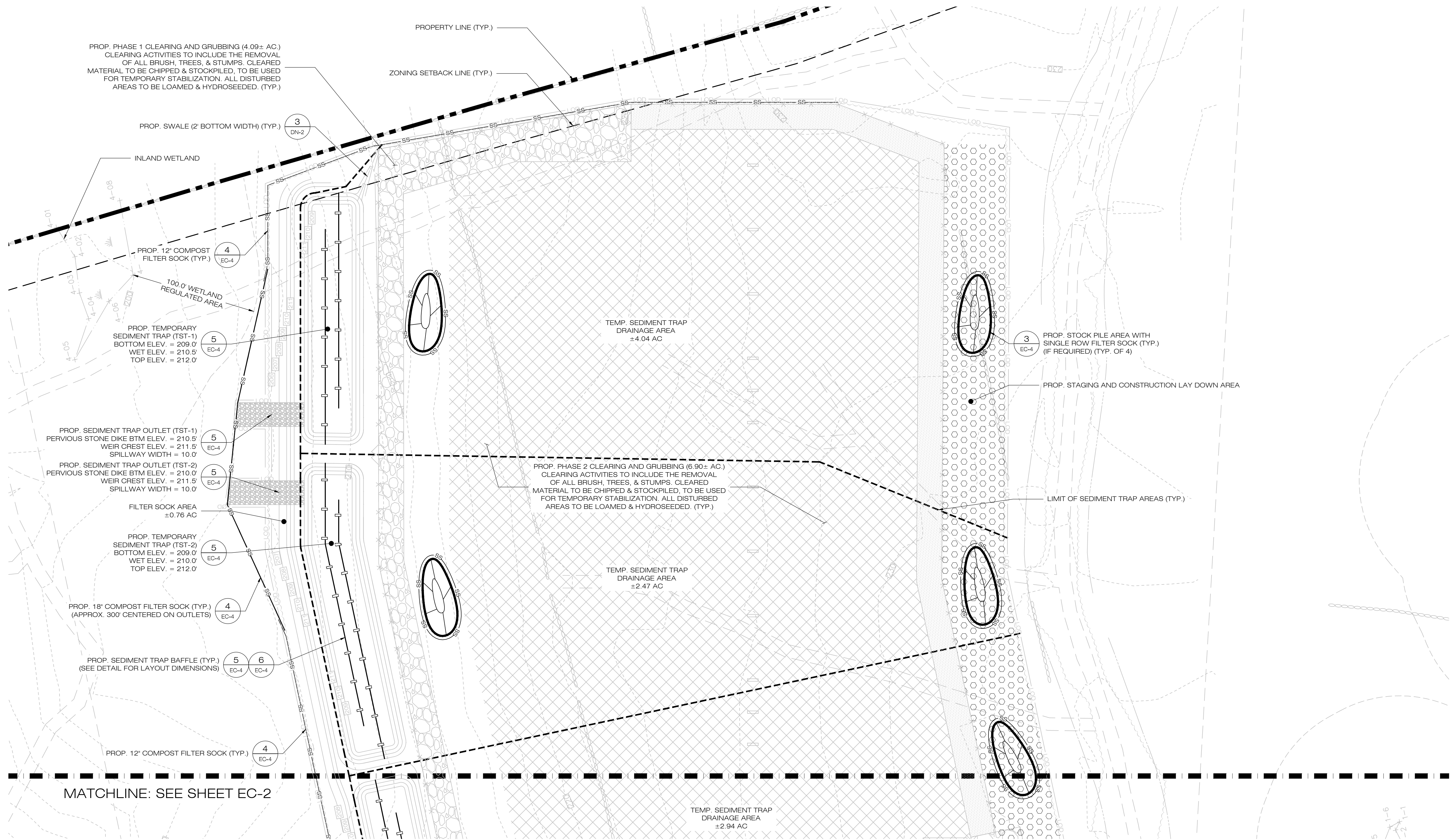
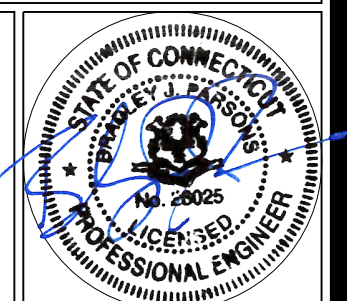
DATE: 01/27/19 CHECKED BY: BJP

SHEET TITLE:

SEDIMENTATION & EROSION CONTROL PLAN

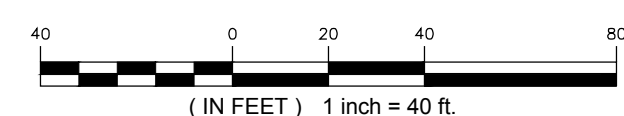
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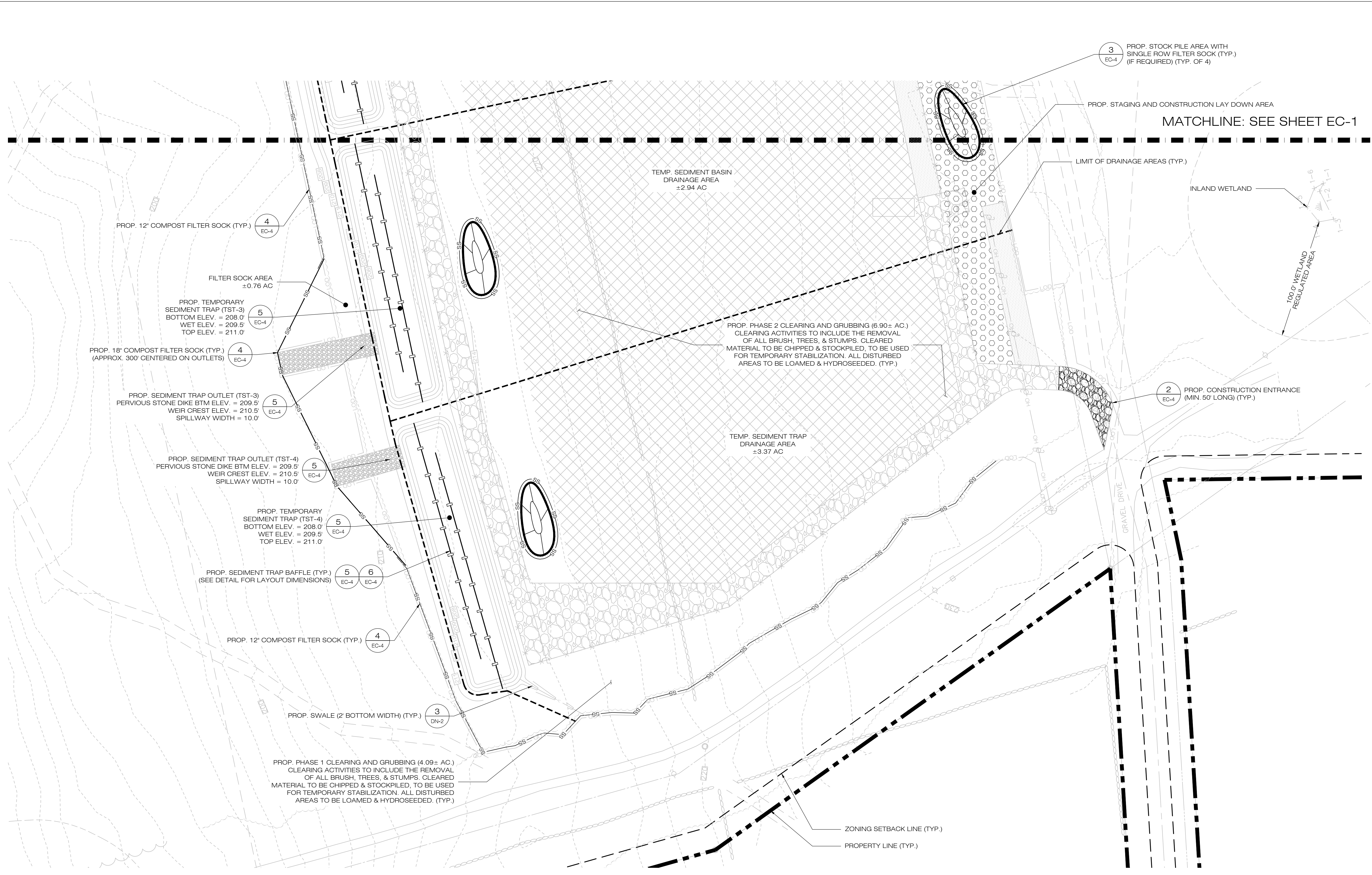
EC-1



1 SEDIMENTATION & EROSION CONTROL PLAN

EC-1 SCALE: 1" = 40'-0"





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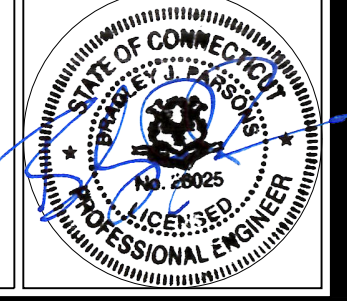
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SHEET TITLE:

SEDIMENTATION & EROSION CONTROL PLAN

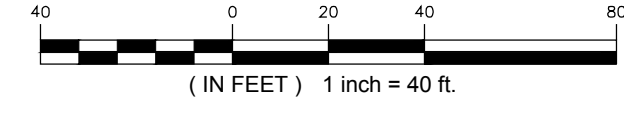
SHEET NUMBER:

EC-2



1 SEDIMENTATION & EROSION CONTROL PLAN

SCALE: 1" = 40'-0"



MATCHLINE: SEE SHEET EC-1

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 TOWN OF 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 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. 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 HYDROSEED 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.
- TURF ESTABLISHMENT SHALL BE PERFORMED OVER 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.
- TURF ESTABLISHMENT SHALL BE COMPLETED VIA HYDROSEEDING WITH A TACKIFIER. SEEDING MIXTURES SHALL BE NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX (SEE SITE DETAILS SHEET DN-1), OR APPROVED EQUAL BY OWNER.

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 12.69± ACRES OF EXISTING LOT.

THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:
A. CLEARING, GRUBBING, AND GRADING OF EXISTING LOT.
B. CONSTRUCTION OF 7,566 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.
C. THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT GRASS TREATMENTS.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 12.69± ACRES OF THE SITE BEING DISTURBED WITH NEGLIGIBLE INCREASE IN THE IMPERVIOUS AREA OF THE SITE, AS ALL ACCESS THROUGH THE SITE WILL BE GRAVEL OR COMPACTED EARTH. IMPERVIOUS AREAS ARE LIMITED TO THE CONCRETE PADS FOR ELECTRICAL EQUIPMENT.
- THE PROJECT SITE, AS MAPPED IN THE SOIL SURVEY OF THE STATE OF CONNECTICUT (NRCS, VERSION 18, DEC 6, 2018), CONTAINS TYPE 73C (HYDROLOGIC SOIL GROUP B) AND 85B (HYDROLOGIC SOIL GROUP C) SOILS. A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN COMPLETED.
- IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 9-12 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 TOWN OF OLD LYME 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 AREA:
A. STAGED CONSTRUCTION;
B. MINIMIZE THE DISTURBED AREAS TO THE EXTENT PRACTICABLE DURING CONSTRUCTION;
C. STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE WITH TEMPORARY OR PERMANENT MEASURES;
D. MINIMIZE IMPERVIOUS AREAS;
E. UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
- THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:
A. STORMWATER MANAGEMENT MEMO FOR EXISTING AND PROPOSED PEAK FLOWS.

CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR SHALL NOT ALTER THE CONSTRUCTION SEQUENCE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER AND CT DEEP. ANY PROPOSED CHANGES TO THE CONSTRUCTION SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER IN WRITING FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.

PRE-CONSTRUCTION

- CONTACT THE APPLICANT AND REPRESENTATIVES TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION. PHYSICALLY FLAG THE LIMITS OF CLEARING IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROP. WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE APPLICANT, THE APPLICANT 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 THE APPLICANT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT. NOTIFY CALL BEFORE YOU DIG AT 1-800-922-4455.

PHASE 1

- PERFORM CLEARING OF TREES ON SITE WITH NO GRUBBING, STUMPS TO REMAIN. REMOVE CUT WOOD AND STOCKPILE WOOD CHIPS FOR FUTURE USE OR REMOVE OFF-SITE.
- CLEAR AND GRUB AS REQUIRED AND SHOWN ON EC-1 AND EC-2 TO INSTALL THE PERIMETER EROSION SEDIMENTATION CONTROL MEASURES AND CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER SILT SOCK.
- ALL WETLAND AREAS SHALL BE PROTECTED PRIOR TO THE START OF MAJOR CONSTRUCTION.
- INSTALL GRAVEL AND COMPACTED EARTH ACCESS ROADS.
- INSTALL TST-1, TST-2, TST-3, AND TST-4.
- STOCKPILE TOPSOIL FOR REUSE.
- STABILIZE DISTURBED AREAS WITH LOAM AND HYDROSEED WITH TACKIFIER.
- INSTALL TREE PROTECTION IF APPLICABLE.

PHASE 2 (UPON INSTALLATION OF TEMPORARY SEDIMENT TRAPS)

- PERFORM REMAINING GRUBBING AS NECESSARY. REMOVE STUMPS AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE IN ACCORDANCE WITH APPLICABLE LAWS.
- STOCKPILE TOPSOIL.
- PERFORM ANY GRADING NECESSARY FOR THE SHAPING OF THE SITE EAST OF THE COMPACTED EARTH ACCESS ROAD.
- LOAM AND HYDROSEED WITH TACKIFIER REMAINING DISTURBED AREAS. NO FURTHER CONSTRUCTION CAN PROCEED UNTIL GROUND COVER IS DEEMED ESTABLISHED BY THE QUALIFIED INSPECTOR (APPROX. 70% GRASS COVERAGE).

PHASE 3 (UPON GROUND COVER BEING ESTABLISHED)

- INSTALL ELECTRICAL CONDUIT AND CONCRETE PADS.
- INSTALL RACKING POSTS FOR GROUND MOUNTED SOLAR PANELS
- INSTALL GROUND MOUNTED SOLAR PANELS AND COMPLETE ELECTRICAL INSTALLATION.
- INSTALL PERIMETER CHAIN LINK FENCE AS SHOWN ON THE PLANS.

PHASE 4

- HYDROSEED WITH TACKIFIER ALL REMAINING DISTURBED AREAS.
- HYDROSEED WITH TACKIFIER THE POLLINATOR HABITAT.
- AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF THE SOLAR FACILITY AND THE AREAS ABOVE TSTs ARE DEEMED STABILIZED BY THE QUALIFIED INSPECTOR, COMPLETE REMAINING SITE WORK, INCLUDING CLEANING INFILTRATION BASINS, REMOVING BAFFLES, AND RESEED.
- REPAIR GRAVEL ACCESS DRIVES, AS REQUIRED.
- FINE GRADE, RAKE, SEED, AND MULCH ALL REMAINING DISTURBED AREAS.
- AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE PERMITTEE AND QUALIFIED INSPECTOR, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS. MULCH FROM COMPOST FILTER SOCKS CAN BE LEFT IN PLACE.
- ISSUE NOTICE OF TERMINATION AND PERFORM PROJECT CLEANUP.

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 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.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RE.

COBB ROAD LLC

9 NOVELTY LANE, UNIT 9B
ESSEX, CT 06428



3 SADDLEBROOK DRIVE PHONE: (860)-663-1897
KILLINGWORTH, CT 06419 FAX: (860)-663-0955
WWW.ALLPOINTSTECH.COM

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	01/27/19	FOR GENERAL PERMIT: BJP
1	04/09/20	FOR CONSTRUCTION: BJP
2	05/27/20	PRE-CON NOTES EC3: BJP
3	06/11/20	CON NOTES EC1&EC2: BJP
4	01/08/21	MODULE LAYOUT D&M: BJP
5		
6		

DESIGN PROFESSIONAL OF RECORD

PROF: BRADLEY J. PARSONS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: HOWARD S. TOOKER
ADDRESS: 20-1 SHORT HILLS RD
OLD LYME, CT 06371

POWER LINES SOLAR

SITE 20-1 SHORT HILLS RD

ADDRESS: OLD LYME, CT 06371

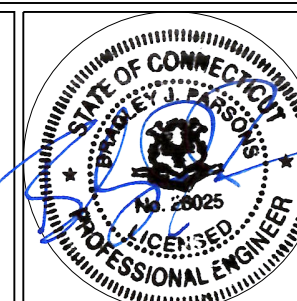
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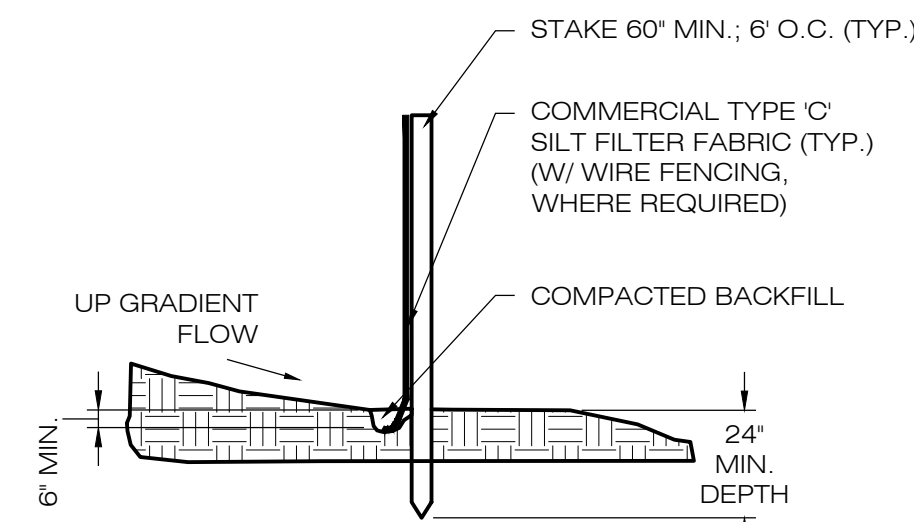
DRAWN BY: JT
DATE: 01/27/19 CHECKED BY: BJP

SHEET TITLE: SEDIMENTATION & EROSION CONTROL PLAN NOTES

SHEET NUMBER:

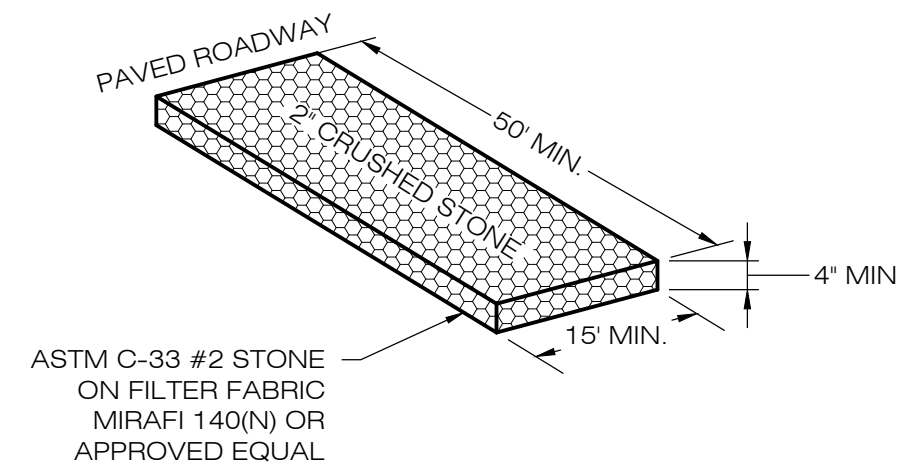
EC-3



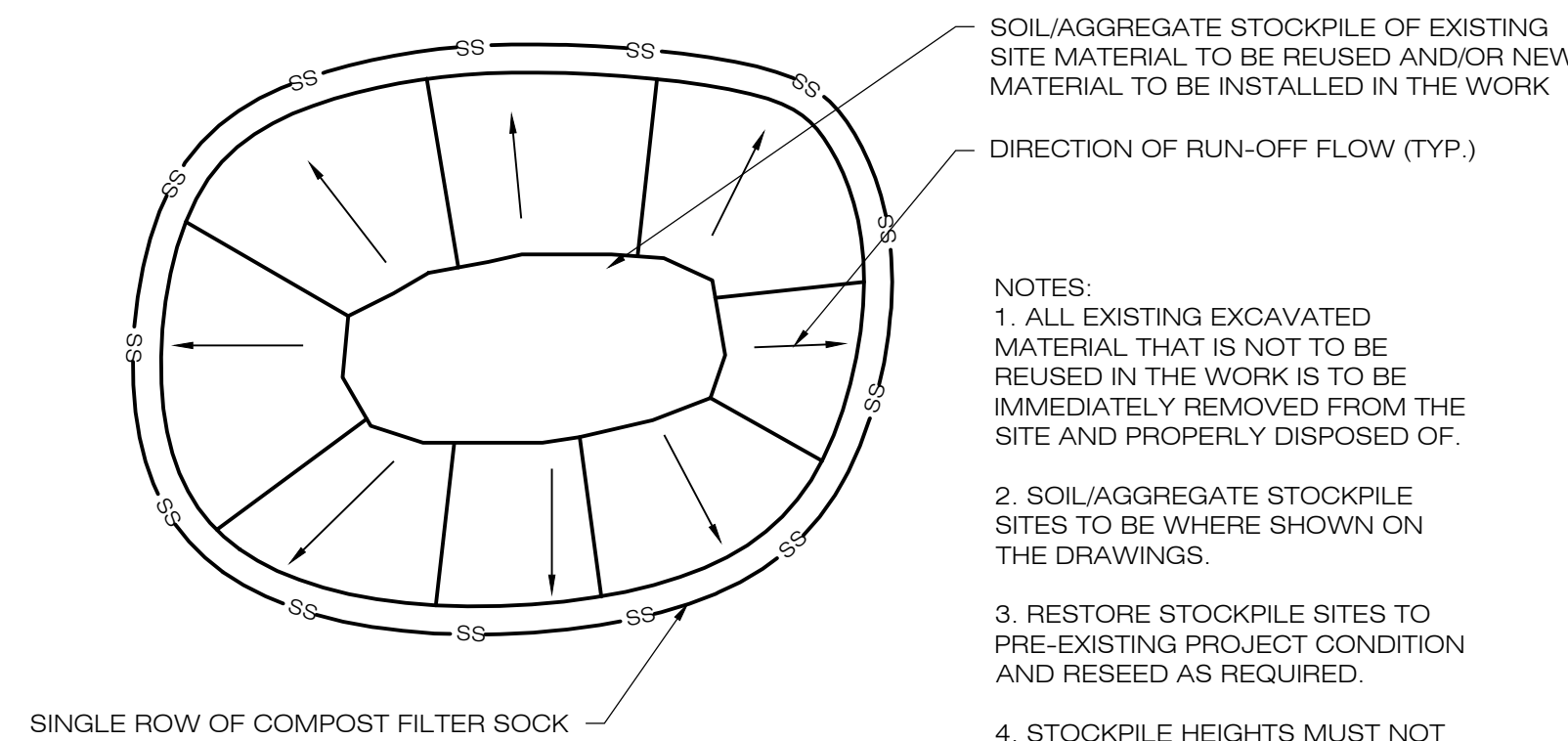


NOTE:
SILT FENCE SHALL BE LAPPED ONLY
WHEN NECESSARY PER THE
MANUFACTURER RECOMMENDATIONS.

1 SILT FENCE DETAIL
EC-4 SCALE: N.T.S.



2 CONSTRUCTION ENTRANCE DETAIL
EC-4 SCALE: N.T.S.

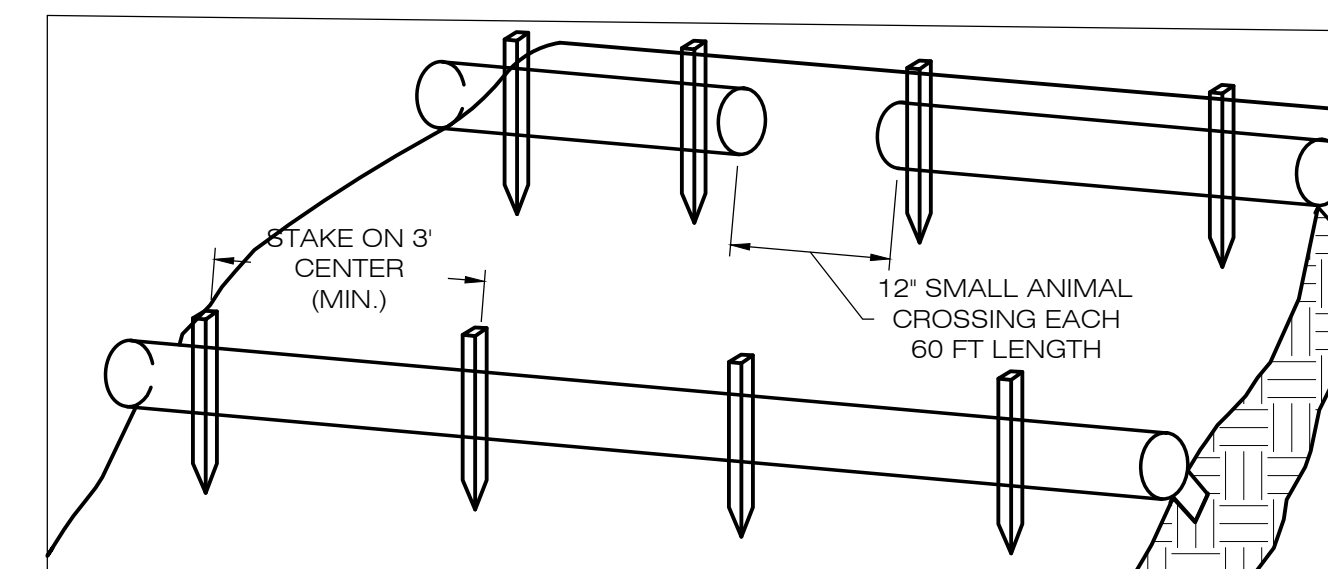


SOIL/AGGREGATE STOCKPILE OF EXISTING
SITE MATERIAL TO BE REUSED AND/OR NEW
MATERIAL TO BE INSTALLED IN THE WORK

DIRECTION OF RUN-OFF FLOW (TYP.)

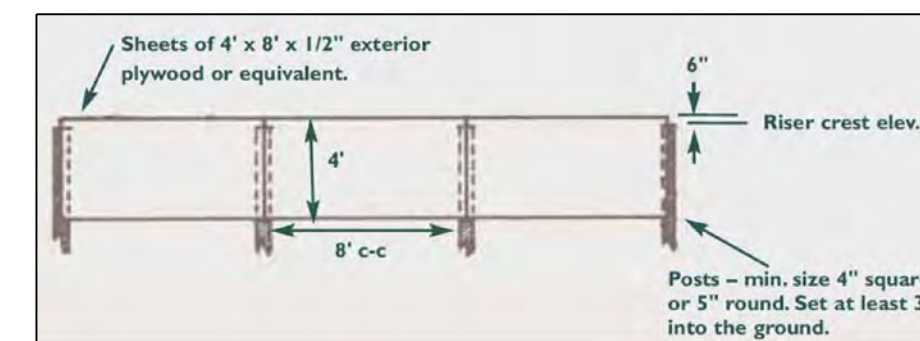
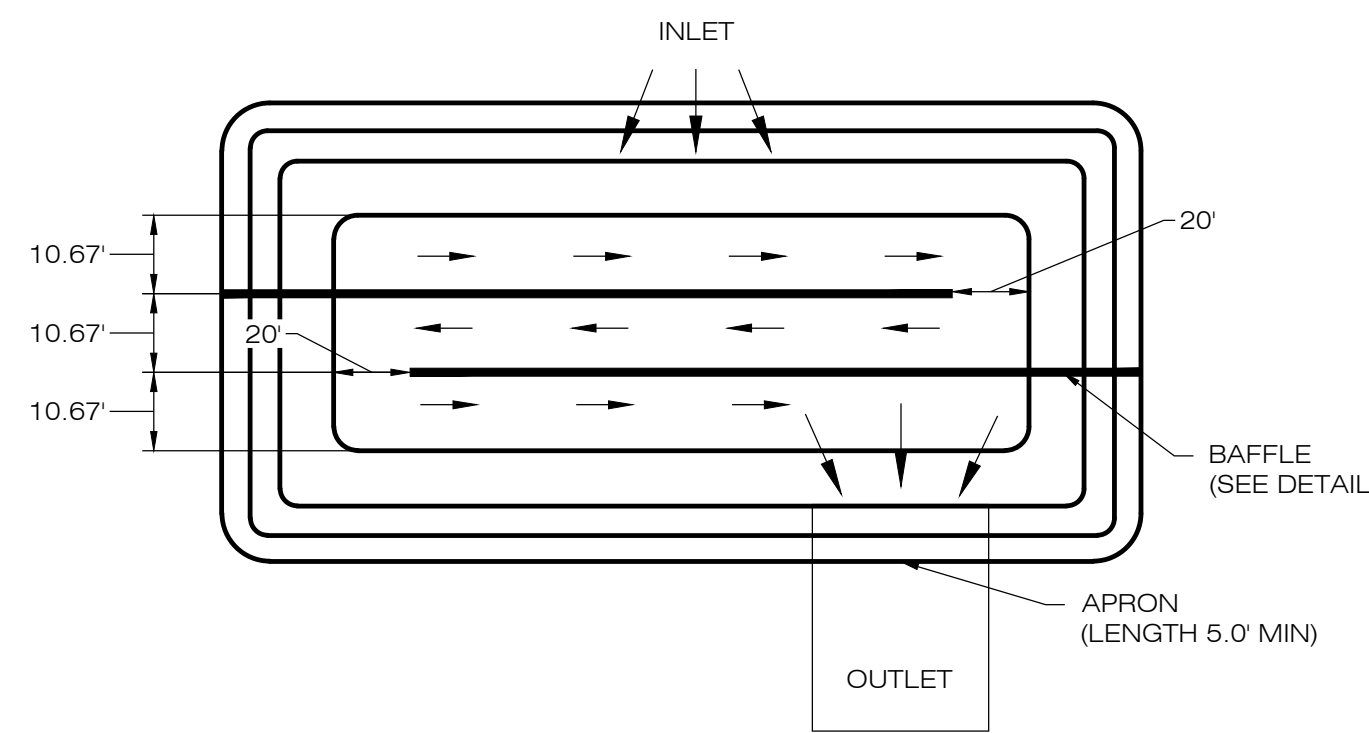
NOTES:
1. ALL EXISTING EXCAVATED
MATERIAL THAT IS NOT TO BE
REUSED IN THE WORK IS TO BE
IMMEDIATELY REMOVED FROM THE
SITE AND PROPERLY DISPOSED OF.
2. SOIL/AGGREGATE STOCKPILE
SITES TO BE WHERE SHOWN ON
THE DRAWINGS.
3. RESTORE STOCKPILE SITES TO
PRE-EXISTING PROJECT CONDITION
AND RESEED AS REQUIRED.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

3 MATERIALS STOCKPILE DETAIL
EC-4 SCALE: N.T.S.

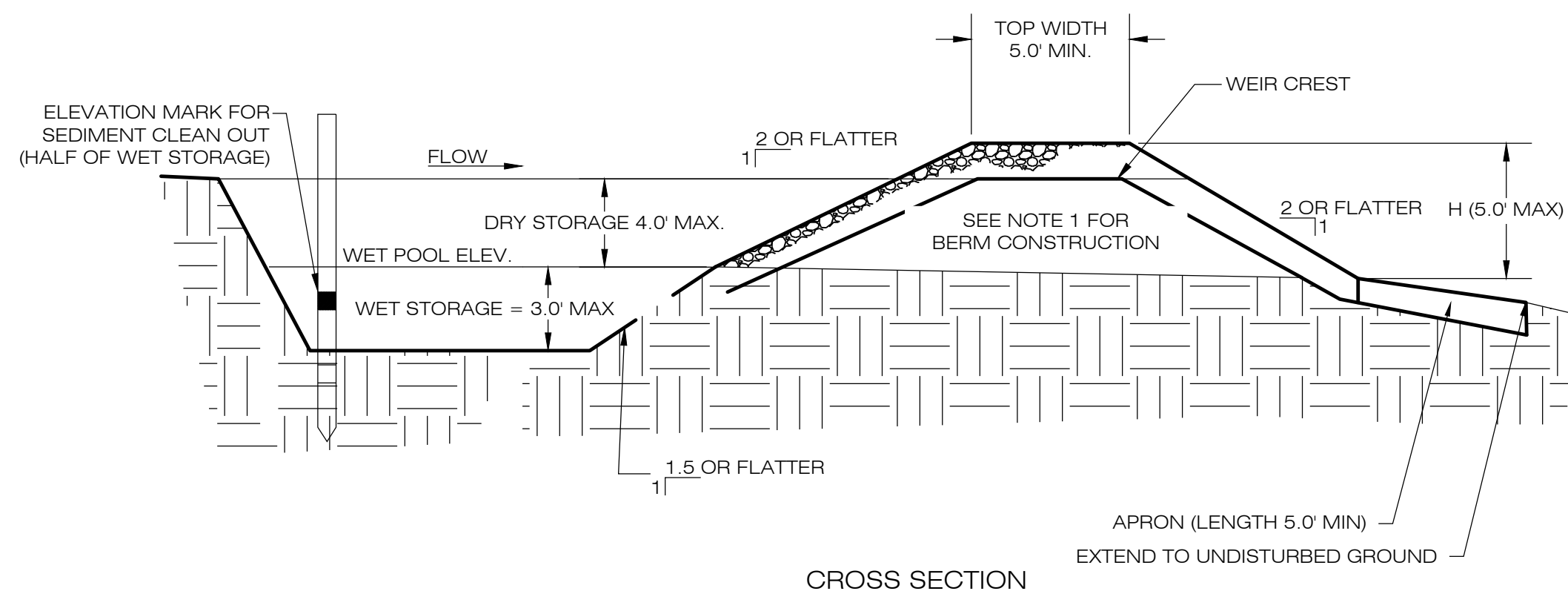
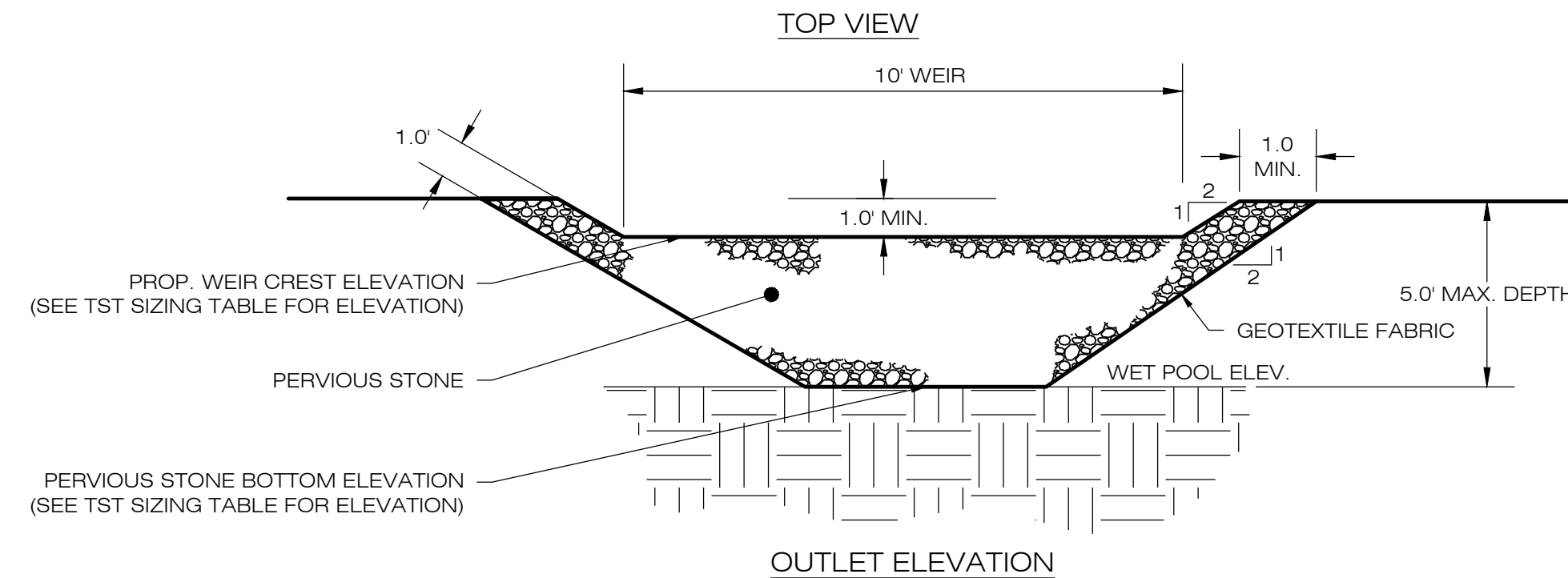


1. BEGIN AT THE LOCATION WHERE THE SOCK IS TO BE INSTALLED BY EXCAVATING A 2'-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE SOCK IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT 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
EC-4 SCALE: N.T.S.



6 SEDIMENT TRAP BAFFLE
EC-4 SCALE: N.T.S.



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

5 TEMPORARY SEDIMENT TRAP
EC-4 SCALE: N.T.S.

TEMPORARY SEDIMENT TRAP SIZING TABLE										
NAME	DRAINAGE AREA (AC)	SEDIMENT VOLUME/ACRE AREA (CY)	REQ. VOLUME (CY)	REQ. WET VOLUME (CY)	PROP. BTM. ELEV. (FT)	PROP. STONE DIKE BTM. ELEV. (FT)	PROP. WEIR CREST ELEV. (FT)	PROP. TOP ELEV. (FT)	WET VOL. PROVIDED (CY)	TOTAL VOL. PROVIDED (CY)
TST-1	4.02 AC	134 CYD	539.06 CYD	269.53 CYD	209.0'	210.0'	211.5'	212.0'	376.99 CYD	690.47 CYD
TST-2	2.47 AC	134 CYD	331.20 CYD	165.60 CYD	209.0'	210.0'	211.5'	212.0'	290.62 CYD	835.68 CYD
TST-3	2.94 AC	134 CYD	394.23 CYD	197.12 CYD	208.0'	209.5'	210.5'	211.0'	426.59 CYD	779.95 CYD
TST-4	3.33 AC	134 CYD	446.38 CYD	223.19 CYD	208.0'	209.5'	210.5'	211.0'	447.73 CYD	818.07 CYD

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WWW.ALLPOINTSTECH.COM

APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	01/27/19	FOR GENERAL PERMIT: BJP
1	04/09/20	FOR CONSTRUCTION: BJP
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5		
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DESIGN PROFESSIONAL OF RECORD

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ADD: 3 SADDLEBROOK DRIVE
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POWER LINES SOLAR

SITE ADDRESS: 20-1 SHORT HILLS RD
ADDRESS: OLD LYME, CT 06371

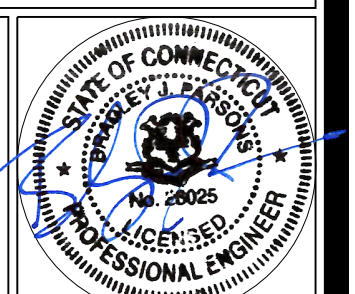
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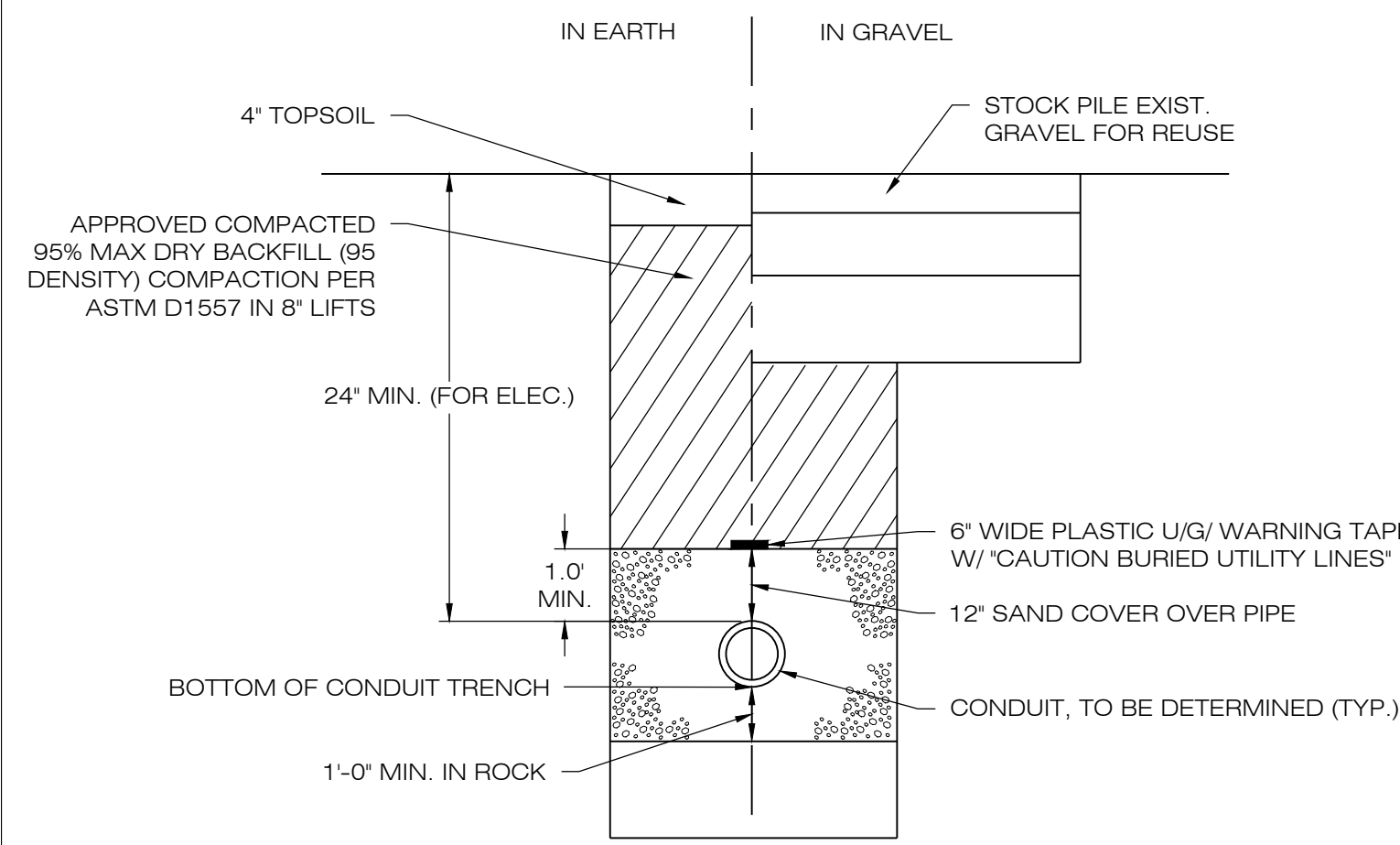
DATE: 01/27/19 DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:
SEDIMENTATION & EROSION CONTROL PLAN DETAILS

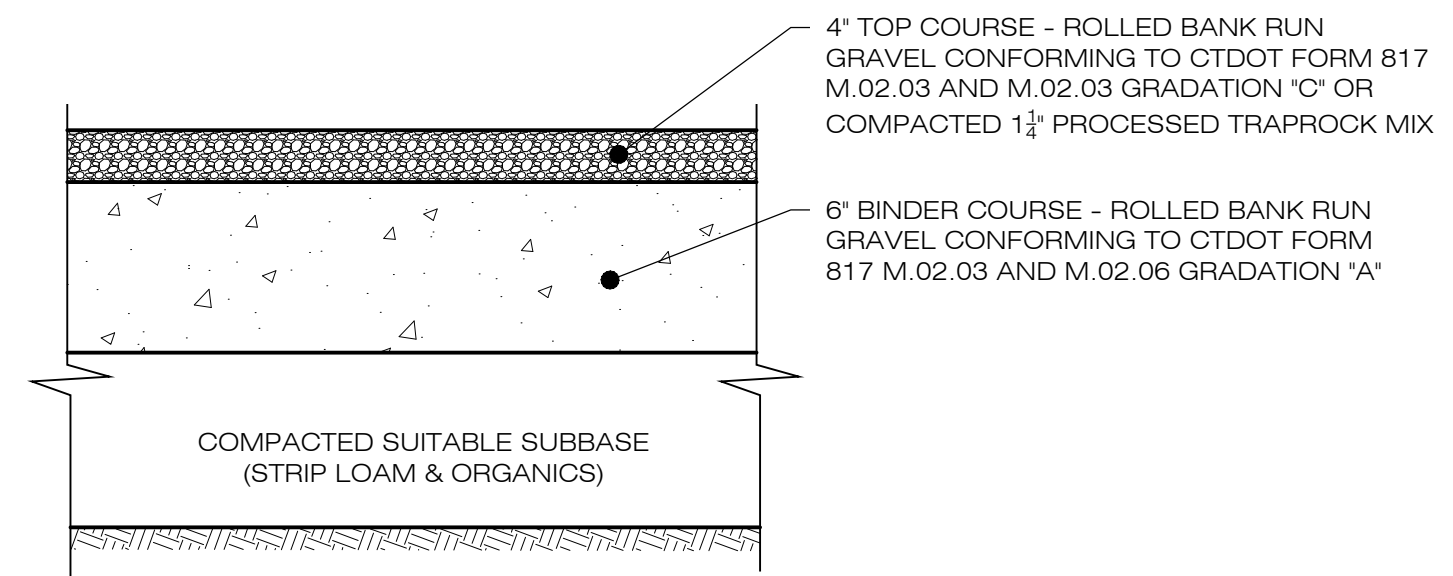
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EC-4



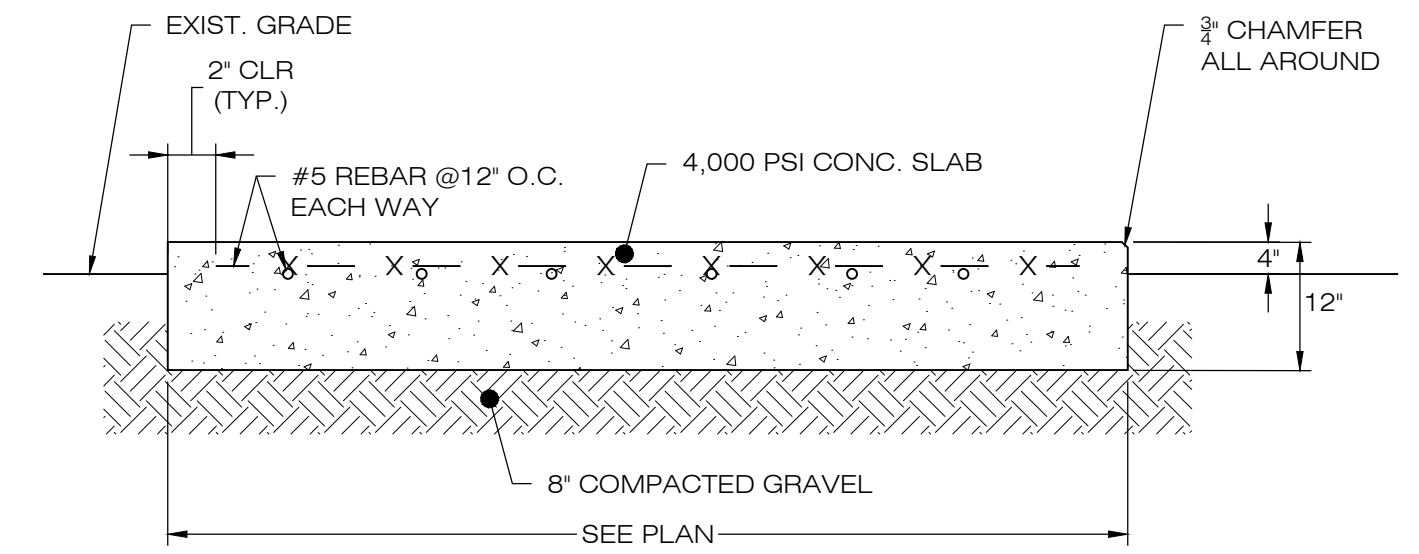


1 ELECTRICAL TRENCH DETAIL
SCALE : N.T.S.

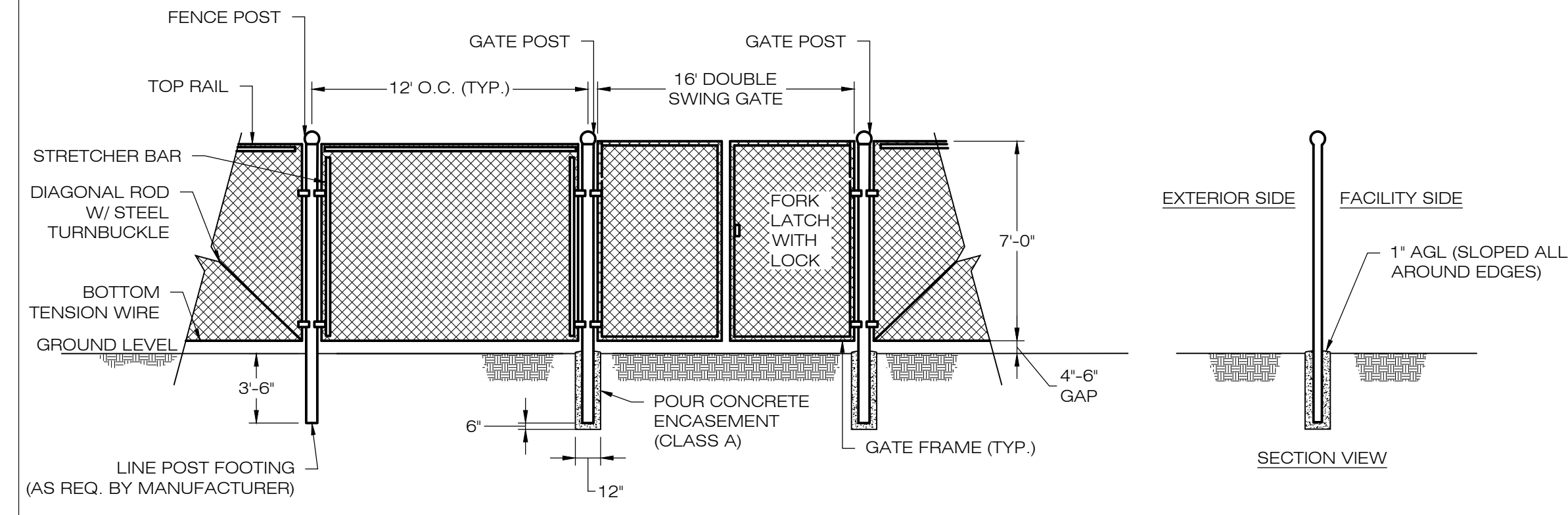


- NOTES:
- SUBBASE MAY CONSIST OF NATIVE MATERIALS IF FOUND ACCEPTABLE BY THE ENGINEER. SUBBASE TO BE COMPACTED TO 95% MAX DRY DENSITY.
 - SUBBASE IS TO BE FREE FROM DEBRIS AND UNSUITABLE MATERIALS.

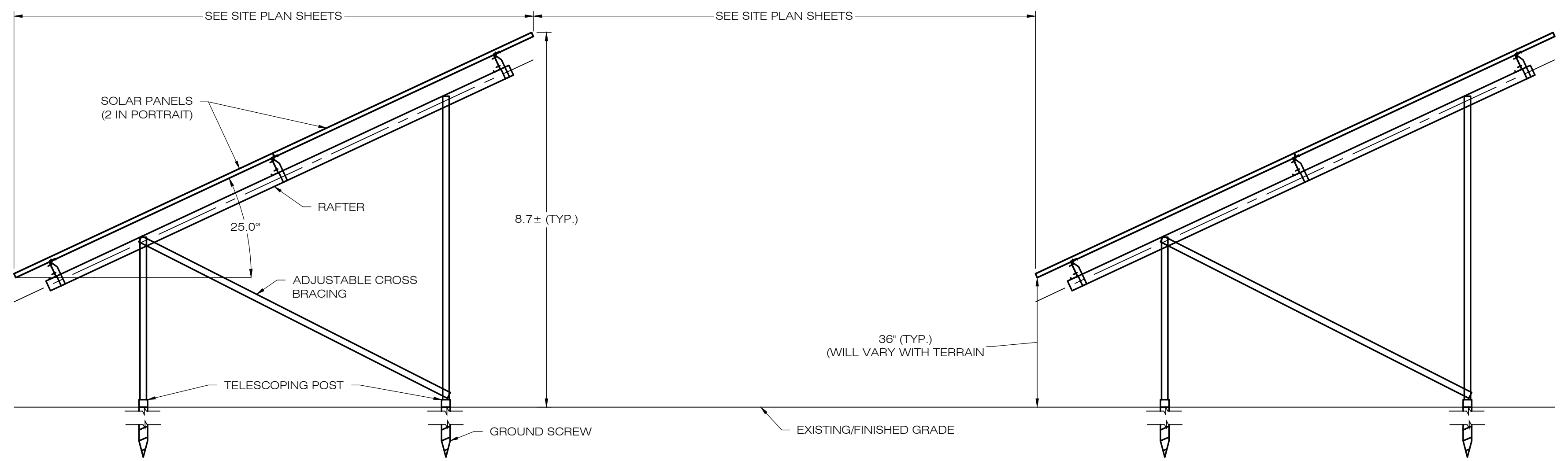
3 GRAVEL ACCESS DRIVE SECTION
SCALE : N.T.S.



4 CONCRETE EQUIPMENT PAD
SCALE : N.T.S.



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



- NOTES:
SEE MANUFACTURER'S DETAIL SHEETS FOR ADDITIONAL INFORMATION REGARDING RACKING SYSTEM REQUIREMENTS AND INSTALLATION PROCEDURES. RACKING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

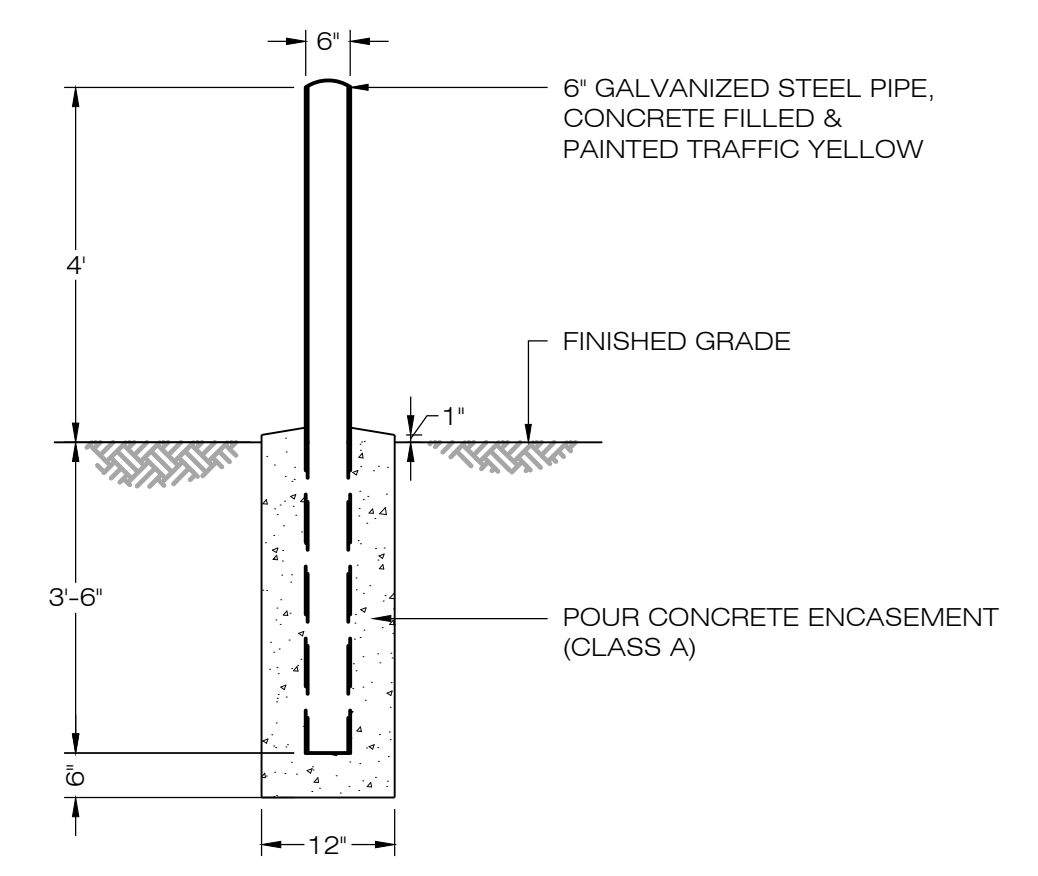
2 TYPICAL POST MOUNTED RACKING SYSTEM
SCALE : N.T.S.

POWER LINES
SOLAR FACILITY

IN CASE OF EMERGENCY
CALL T.B.D.

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

6 NOTIFICATION SIGN DETAIL
SCALE : N.T.S.



- NOTES:
IN PAVED AREAS, HOLD TOP OF FOOTING 6\"/>

7 BOLLARD DETAIL
SCALE : N.T.S.

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 Showy Wildflower Mix

Botanical Name	Common Name	Indicator
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Elymus riparius</i>	Riverbank Wild Rye	FACW
<i>Heliopsis helianthoides</i>	Ox Eye Sunflower	UPL
<i>Coreopsis lanceolata</i>	Lance Leaved Coreopsis	FACU
<i>Rudbeckia hirta</i>	Black Eyed Susan	FACU-
<i>Liatris spicata</i>	Spiked Gayfeather/Marsh Blazing Star	FAC+
<i>Asclepias syriaca</i>	Common Milkweed	FACU-
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Aster novae-angliae (Symphyotrichum novae-angliae)</i>	New England Aster	FACW-
<i>Eupatorium purpureum (Eutrochium maculatum)</i>	Purple Joe Pye Weed	FAC
<i>Asclepias tuberosa</i>	Butterfly Milkweed	NI
<i>Solidago juncea</i>	Early Goldenrod	FACW
<i>Eupatorium perfoliatum</i>	Boneset	FACW

PRICE PER LB. \$86.00 MIN. QUANTITY 1 LBS. TOTAL: \$86.00 APPLY: 23 LBS/ACRE :1900 sq ft/lb
The New England Showy Wildflower mix includes a selection of native wildflowers and grasses that will mature into a colorful and vibrant native meadow. It is appropriate seed mix for roadsides, commercial landscaping, parks, golf courses, and industrial sites. Always apply on clean bare soil. The mix may be applied 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 or late Fall dormant 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 may 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.

8 POLLINATOR HABITAT MIX
SCALE : N.T.S.

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>Liatris spicata</i>	Spiked Gayfeather/Marsh Blazing Star	FAC+
<i>Onoclea sensibilis</i>	Sensitive Fern	FACW
<i>Aster prenanthoides (Symphyotrichum prenanthoides)</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.

9 SEMI-SHADE MIX
SCALE : N.T.S.

COBB ROAD LLC
9 NOVELTY LANE, UNIT 9B
ESSEX, CT 06426

**ALL-POINTS
TECHNOLOGY CORPORATION**
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KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

APPROVED FOR CONSTRUCTION

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6		

DESIGN PROFESSIONAL OF RECORD

PROF: BRADLEY J. PARSONS P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: HOWARD S. TOOKER
ADDRESS: 20-1 SHORT HILLS RD
OLD LYME, CT 06371

POWER LINES SOLAR

SITE ADDRESS: 20-1 SHORT HILLS RD
ADDRESS: OLD LYME, CT 06371

APT FILING NUMBER: CT580100

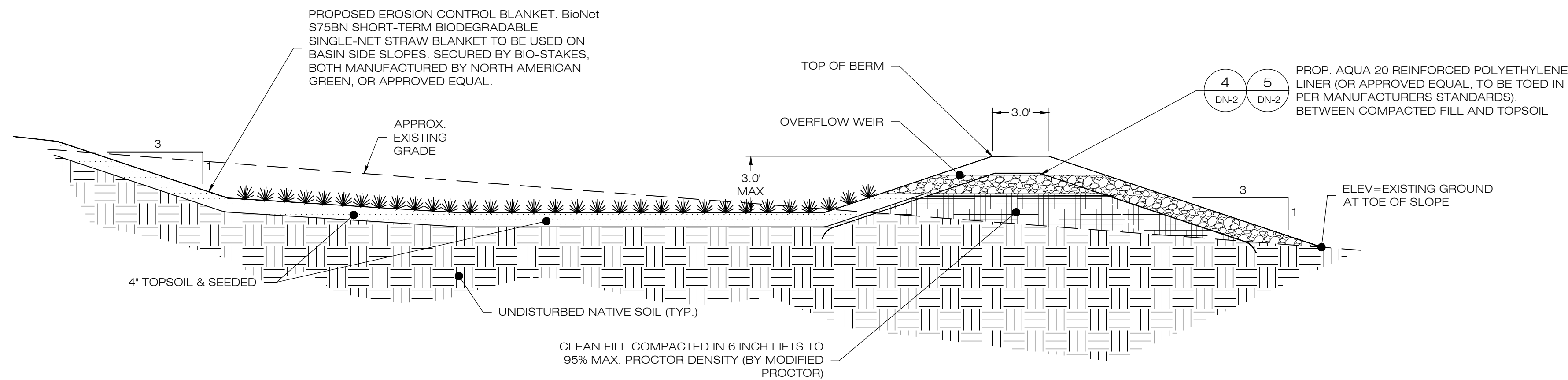
DATE: 01/27/19 DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:

SITE DETAILS

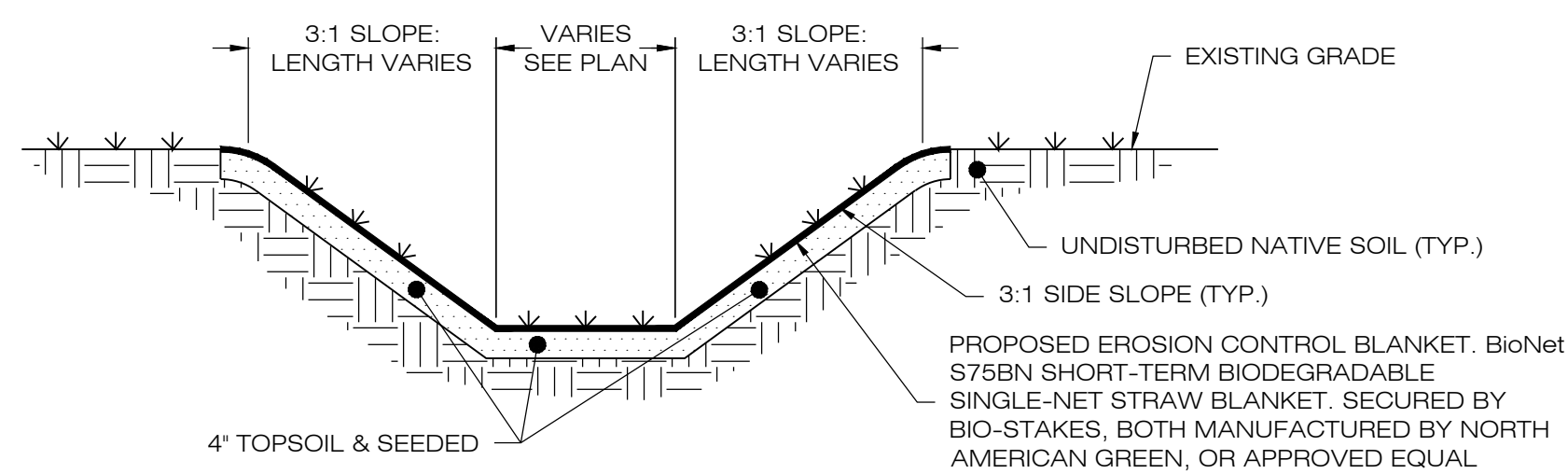
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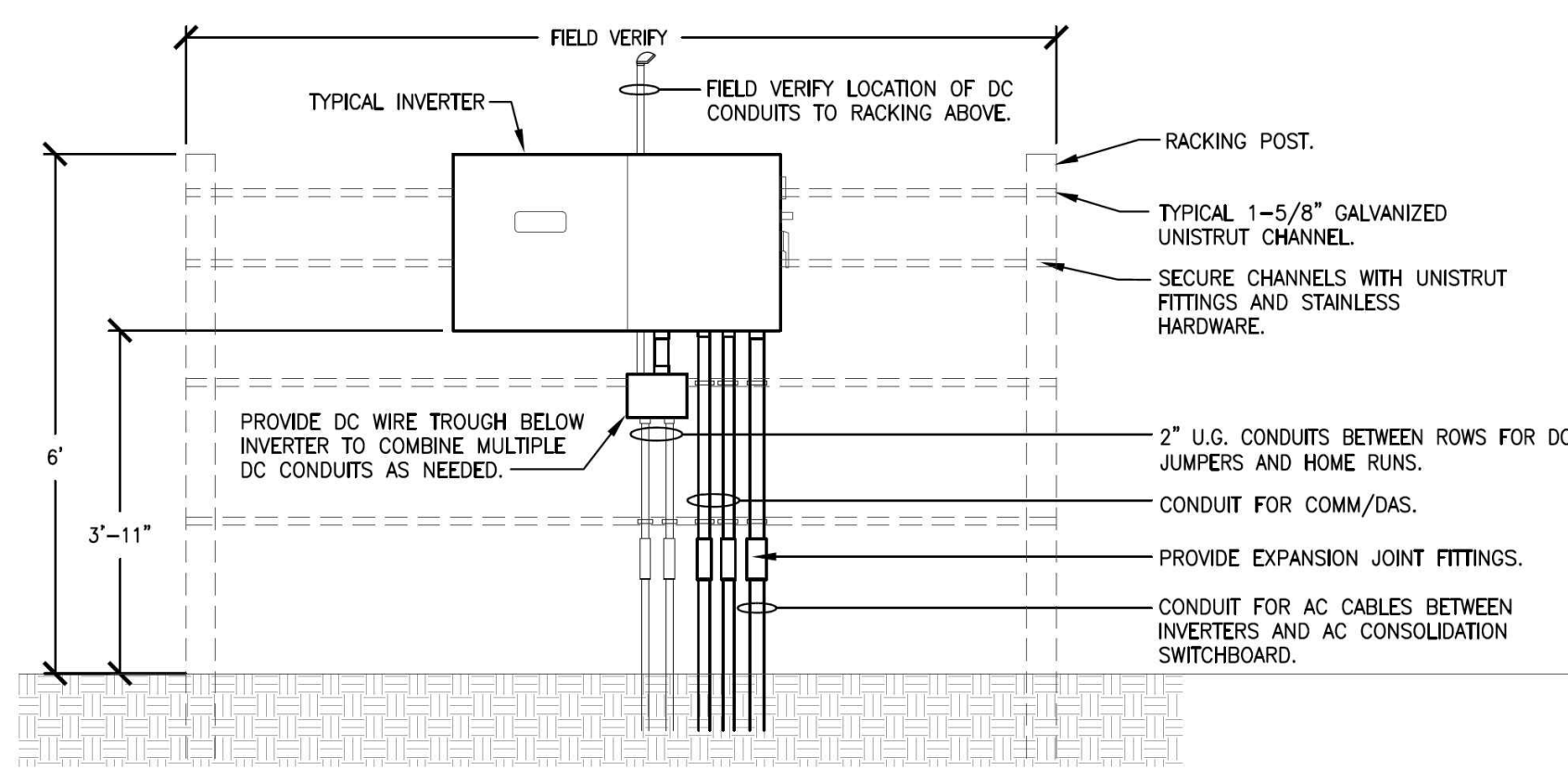
- NOTES:
- SEED MIX TO BE NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR MOIST SITES ON THE BOTTOM OF THE BASIN AND NEW ENGLAND EROSION/RESTORATION MIX FOR DRY SITES ON THE SIDE SLOPES.
 - FOR CONVERTING TST TO INFILTRATION BASIN, REMOVE BAFFLES, CLEAN OUT SEDIMENT, RESHAPE AS REQUIRED, AND RESEED.

1 GRASS LINED INFILTRATION 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.

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



6 INVERTER MOUNTING RACK DETAIL
SCALE: N.T.S.



Aqua 20
20mil Reinforced Polyethylene
DATA SHEET

Heavyweight fabric incorporating a special weave pattern to enhance thickness, flatness, and tear properties. For use in [geomembrane applications](#) such as soil remediation, [pond lining](#), [canal lining](#), [landfill covers](#), etc.

FABRIC SPECIFICATIONS			
WEAVE	Woven black HDPE scrim		
COATING	2.5 mil average each side		
COLOR	Black or other colored coatings available		
WEIGHT	9.6 oz/yd ² +/- 5%		
THICKNESS	20mils +/- 10% ASTM D1777		

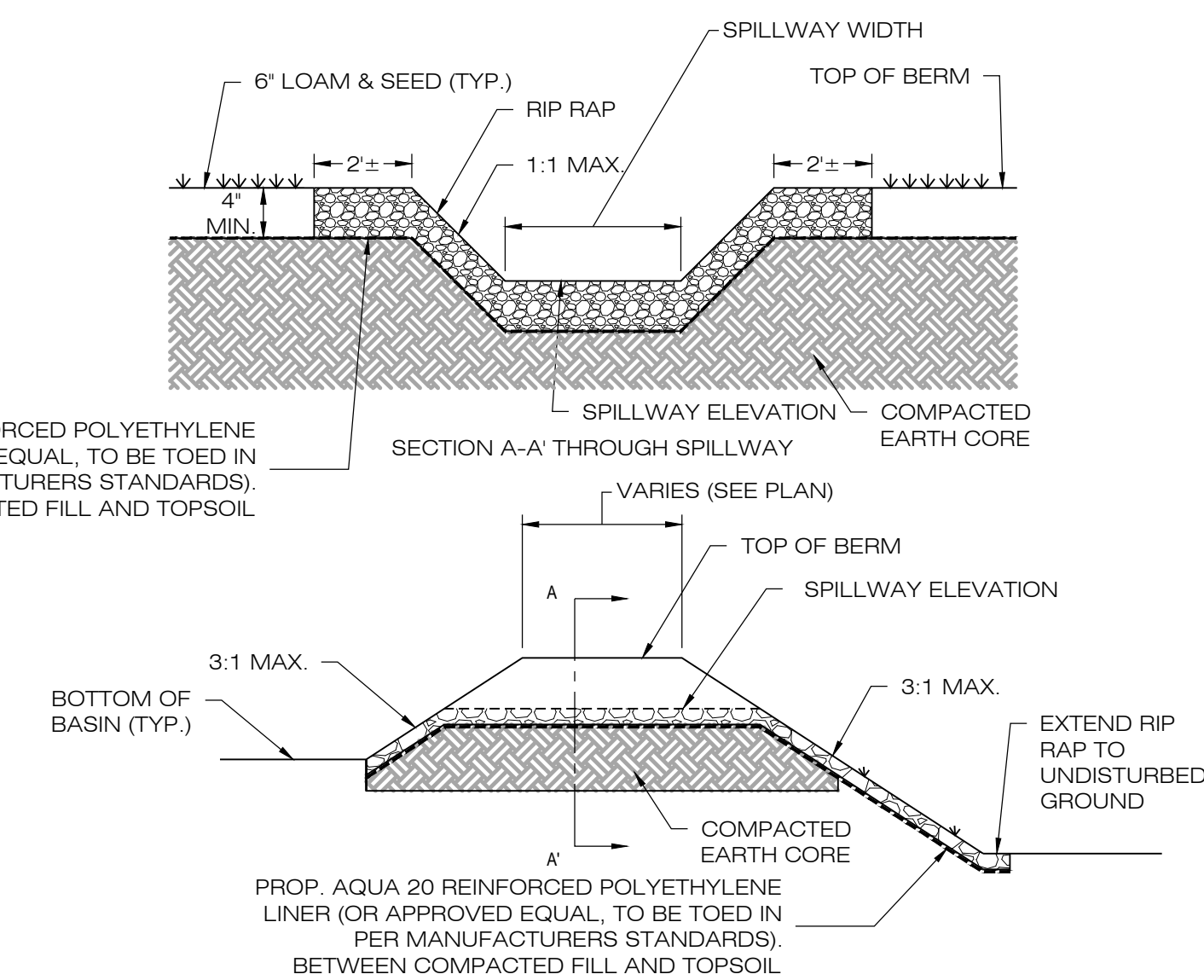
GRAB TENSILE	Warp 330 lb	Weft 286 lb	ASTM D751
STRIP TENSILE	Warp 235 lb	Weft 147 lb	ASTM D751
TRAPEZOIDAL TEAR	Warp 110 lb	Weft 92 lb	ASTM D4533
MULLEN BURST	600 psi		ASTM 751
HYDROSTATIC RESISTANCE	352 psi		ASTM D751
MOISTURE VAPOR TRANSMISSION	0.47 g/m ² /24 hours (0.07 perms)		ASTM E96, pr. B
PERMEABILITY	<1.3 x 10 ⁻⁷ cm/sec		ASTM D4491
PUNCTURE RESISTANCE INDEX	171 lb		ASTM D4833
ACCELERATED UV WEATHERING ¹	>90% strength retention after 2000 hours exposure @ 0.77 W/m ² /nm or 1200 hours exposure @ 1.35 W/m ² /nm		ASTM G150-00 ASTM G154-04

¹Q.U.V [A-340 Lamps]: 8 hrs UV @ 60°C; 4 hrs condensation @ 50°C

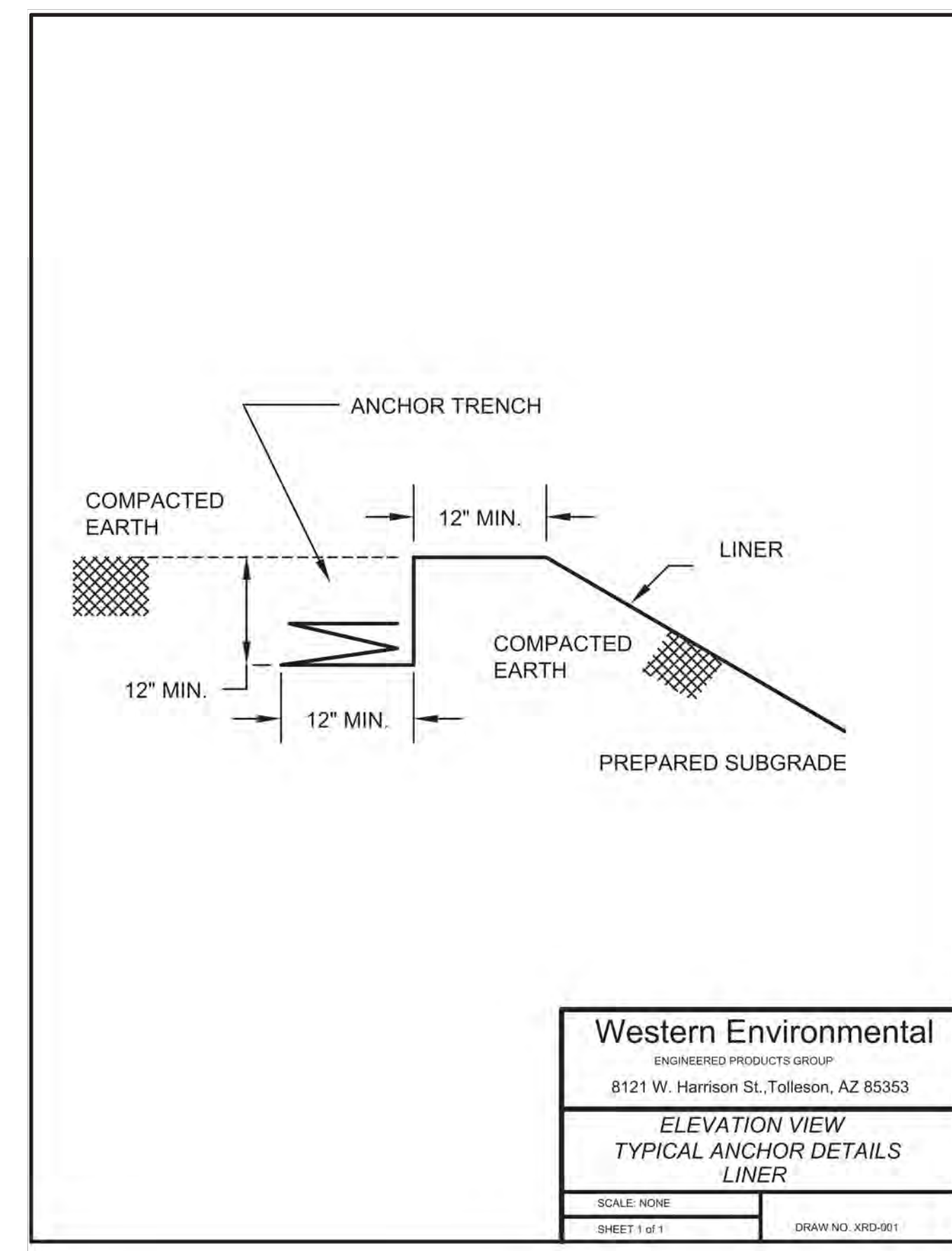
These values are typical data and are not intended as limiting specifications.

www.westernliner.com | 8120 W Harrison St Tolleson, AZ 85353 | 1-844-282-2432 | info@westernliner.com

4 BASIN LINER SPECIFICATION
SCALE: N.T.S.



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



Western Environmental
ENGINEERED PRODUCTS GROUP
8121 W. Harrison St., Tolleson, AZ 85353
ELEVATION VIEW
TYPICAL ANCHOR DETAILS
LINER
SCALE: NONE
SHEET 1 of 1
DRAWN NO. XRD-501

COBB ROAD LLC

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ESSEX, CT 06428



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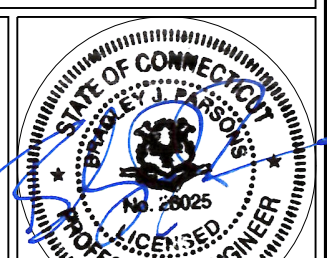
DATE: 01/27/19
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SHEET TITLE:

SITE DETAILS

SHEET NUMBER:

DN-2



GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH PROJECT DEVELOPER 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, 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 SITING COUNCIL AND STORMWATER PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN OF OLD LYME 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 TOWN OF OLD LYME.
- 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 BENNETT & SMILAS ASSOCIATES, INC. DATED MAY 19, 2019.
- THERE ARE INLAND WETLANDS LOCATED ON THE SITE AS INDICATED ON THE PLANS. INLAND WETLAND BOUNDARIES WERE FLAGGED AND LOCATED BY ALL-POINTS TECHNOLOGY CORPORATION, P.C. ON MARCH 21, 2019.
- 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 IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, 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 TOWN OF OLD LYME 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 TOWN OF OLD LYME AND EVERSOURCE 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 TOWN OF OLD LYME.
- 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 TOWN OF OLD LYME.
- 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, TOWN OF OLD LYME, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.

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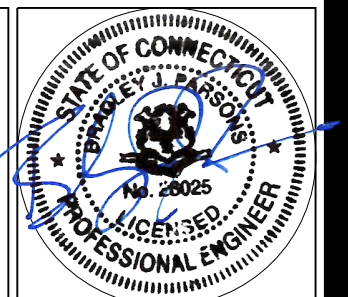
DATE: 01/27/19 DRAWN BY: JT
CHECKED BY: BJP

SHEET TITLE:

SITE NOTES

SHEET NUMBER:

DN-3



ENVIRONMENTAL NOTES

WETLAND AND VERNAL POOL PROTECTION PLAN

AS A RESULT OF THE PROPOSED DEVELOPMENT'S LOCATION IN THE VICINITY OF WETLANDS AND VERNAL POOL HABITAT, THE FOLLOWING BEST MANAGEMENT PRACTICES ("BMPs") ARE RECOMMENDED TO AVOID UNINTENTIONAL IMPACT TO WETLAND HABITATS OR MORTALITY TO VERNAL POOL HERPETOFAUNA (I.E., SPOTTED SALAMANDER, WOOD FROG, TURTLES, ETC.) DURING CONSTRUCTION ACTIVITIES. THIS PLAN INCLUDES ELEMENTS THAT WILL PROTECT HERPETOFAUNA SHOULD CONSTRUCTION ACTIVITIES OCCUR DURING PEAK AMPHIBIAN MOVEMENT PERIODS (EARLY SPRING BREEDING (MARCH 1ST TO MAY 15TH) AND LATE SUMMER DISPERSAL (JULY 15TH TO SEPTEMBER 15TH)) AS WELL AS WETLANDS REGARDLESS OF THE TIME OF YEAR. COMPLETE DETAILS OF THE RECOMMENDED BMPs ARE PROVIDED BELOW, WHICH WILL BE INCORPORATED INTO THE CONSTRUCTION DRAWINGS TO ENSURE THE CONTRACTOR IS FULLY AWARE OF THE PROJECT'S ENVIRONMENTALLY SENSITIVE SETTING.

A WETLAND SCIENTIST FROM ALL POINTS TECHNOLOGY CORP. ("APT") EXPERIENCED IN COMPLIANCE MONITORING OF CONSTRUCTION ACTIVITIES WILL SERVE AS THE ENVIRONMENTAL MONITOR FOR THIS PROJECT TO ENSURE THAT THE FOLLOWING BMPs ARE IMPLEMENTED PROPERLY. THE PROPOSED WETLAND AND VERNAL POOL PROTECTION PROGRAM CONSISTS OF SEVERAL COMPONENTS INCLUDING: PERIODIC INSPECTION AND MAINTENANCE OF EROSION CONTROLS; HERPETOFAUNA SWEEPS; EDUCATION OF ALL CONTRACTORS AND SUBCONTRACTORS PRIOR TO INITIATION OF WORK ON THE SITE; PROTECTIVE MEASURES; AND REPORTING. DUE TO THE PROJECT'S NEARLY 500' FOOT BUFFER FROM THE VERNAL POOL HABITAT, ISOLATION BARRIERS ARE NOT REQUIRED.

1. EROSION AND SEDIMENTATION CONTROLS

- PLASTIC NETTING WITH LARGE MESH OPENINGS (> 1/4") USED IN A VARIETY OF EROSION CONTROL PRODUCTS (I.E., EROSION CONTROL BLANKETS, FIBER ROLLS (WATTLE), REINFORCED SILT FENCE) HAS BEEN FOUND TO ENTANGLE WILDLIFE INCLUDING REPTILES, AMPHIBIANS, BIRDS AND SMALL MAMMALS. NO PERMANENT EROSION CONTROL PRODUCTS OR REINFORCED SILT FENCE WILL BE USED ON THE PROJECT. TEMPORARY EROSION CONTROL PRODUCTS THAT WILL BE EXPOSED AT THE GROUND SURFACE REPRESENT A POTENTIAL FOR WILDLIFE ENTANGLEMENT WILL USE EITHER EROSION CONTROL BLANKETS AND FIBER ROLLS COMPOSED OF PROCESSED FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX (NETLESS) OR NETTING WITH A MESH SIZE <1/4" SUCH AS THAT TYPICALLY USED IN COMPOST FILTER SOCKS TO AVOID/MINIMIZE WILDLIFE ENTANGLEMENT.
- INSTALLATION OF EROSION AND SEDIMENTATION CONTROLS, REQUIRED FOR EROSION CONTROL COMPLIANCE, SHALL BE PERFORMED BY THE CONTRACTOR FOLLOWING CLEARING ACTIVITIES AND PRIOR TO ANY EARTH-WORK. THE ENVIRONMENTAL MONITOR WILL INSPECT THE WORK ZONE AREA PRIOR TO AND FOLLOWING EROSION CONTROL BARRIER INSTALLATION TO ENSURE THE AREA IS FREE OF HERPETOFAUNA AND SATISFACTORILY INSTALLED.
- IF A STAGING AREA FOR EQUIPMENT, VEHICLES OR CONSTRUCTION MATERIALS IS REQUIRED FOR THIS PROJECT, SUCH AREA(S) SHALL BE LOCATED OUTSIDE OF ANY WETLAND RESOURCE BUFFER ZONE AND SURROUNDED BY SILT FENCE.
- ALL EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF COMPLETION OF WORK AND PERMANENT STABILIZATION OF SITE SOILS SO THAT HERPETOFAUNA MOVEMENTS BETWEEN UPLANDS AND WETLANDS ARE NOT RESTRICTED.

2. CONTRACTOR EDUCATION:

- PRIOR TO WORK ON SITE AND INITIAL DEPLOYMENT/MOBILIZATION OF EQUIPMENT AND MATERIALS, THE CONTRACTOR SHALL ATTEND AN EDUCATIONAL SESSION AT THE PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL MONITOR. THIS ORIENTATION AND EDUCATIONAL SESSION WILL CONSIST OF INFORMATION SUCH AS, BUT NOT LIMITED TO: REPRESENTATIVE PHOTOGRAPHS OF TYPICAL HERPETOFAUNA THAT MAY BE ENCOUNTERED, TYPICAL SPECIES BEHAVIOR, AND PROPER PROCEDURES TO PROTECT SUCH SPECIES IF THEY ARE ENCOUNTERED. THE MEETING WILL FURTHER EMPHASIZE THE NON-AGGRESSIVE NATURE OF THESE SPECIES, THE ABSENCE OF NEED TO DESTROY SUCH ANIMALS AND THE NEED TO FOLLOW PROTECTIVE MEASURES AS DESCRIBED IN SECTION 4 BELOW. THE CONTRACTOR WILL DESIGNATE ONE OF ITS WORKERS AS THE "PROJECT MONITOR", WHO WILL RECEIVE MORE INTENSE TRAINING ON THE IDENTIFICATION AND PROPER HANDLING OF HERPETOFAUNA.
- THE CONTRACTOR WILL DESIGNATE A MEMBER OF ITS CREW AS THE PROJECT MONITOR TO BE RESPONSIBLE FOR THE DAILY "SWEEPS" FOR HERPETOFAUNA WITHIN THE WORK ZONE EACH MORNING, DURING ANY AND ALL TRANSPORTATION OF VEHICLES ALONG THE ACCESS DRIVE, AND FOR ANY GROUND DISTURBANCE WORK. THIS INDIVIDUAL WILL RECEIVE MORE INTENSE TRAINING FROM THE ENVIRONMENTAL MONITOR ON THE IDENTIFICATION AND PROTECTION OF HERPETOFAUNA IN ORDER TO PERFORM SWEEPS. ANY HERPETOFAUNA DISCOVERED WILL BE REPORTED TO THE ENVIRONMENTAL MONITOR, PHOTOGRAPHED IF POSSIBLE, AND RELOCATED OUTSIDE THE WORK ZONE IN THE GENERAL DIRECTION THE ANIMAL WAS ORIENTED.
- THE ENVIRONMENTAL MONITOR WILL ALSO POST CAUTION SIGNS THROUGHOUT THE PROJECT SITE AND MAINTAIN THEM FOR THE DURATION OF CONSTRUCTION TO PROVIDE NOTICE OF THE ENVIRONMENTALLY SENSITIVE NATURE OF THE WORK AREA, THE POTENTIAL FOR ENCOUNTERING VARIOUS AMPHIBIANS AND REPTILES AND PRECAUTIONS TO BE TAKEN TO AVOID INJURY TO OR MORTALITY OF THESE ANIMALS.
- THE CONTRACTOR WILL BE PROVIDED WITH THE ENVIRONMENTAL MONITOR'S CELL PHONE AND EMAIL CONTACT INFORMATION TO IMMEDIATELY REPORT ANY ENCOUNTERS WITH HERPETOFAUNA.

3. PETROLEUM MATERIALS STORAGE AND SPILL PREVENTION

- 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 DUE TO THE PROJECT'S LOCATION IN PROXIMITY TO SENSITIVE WETLAND RESOURCES.
- 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.
- THE FOLLOWING PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING RESTRICTIONS AND SPILL RESPONSE PROCEDURES WILL BE ADHERED TO BY THE CONTRACTOR.
 - PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING
 - REFUELING OF VEHICLES OR MACHINERY SHALL TAKE PLACE ON AN IMPERVIOUS PAD WITH SECONDARY CONTAINMENT DESIGNED TO CONTAIN FUELS.
 - ANY REFUELING DRUMS/TANKS 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.
 - INITIAL SPILL RESPONSE PROCEDURES
 - STOP OPERATIONS AND SHUT OFF EQUIPMENT
 - REMOVE ANY SOURCES OF SPARK OR FLAME.
 - CONTAIN THE SOURCE OF THE SPILL.
 - DETERMINE THE APPROXIMATE VOLUME OF THE SPILL.
 - IDENTIFY THE LOCATION OF NATURAL FLOW PATHS TO PREVENT THE RELEASE OF THE SPILL TO SENSITIVE NEARBY WATERWAYS OR WETLANDS.
 - ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL.
 - SPILL CLEAN UP & CONTAINMENT
 - OBTAIN SPILL RESPONSE MATERIALS FROM THE ON-SITE SPILL RESPONSE KIT. PLACE ABSORBENT MATERIALS DIRECTLY ON THE RELEASE AREA.
 - LIMIT THE SPREAD OF THE SPILL BY PLACING ABSORBENT MATERIALS AROUND THE PERIMETER OF THE SPILL.
 - ISOLATE AND ELIMINATE THE SPILL SOURCE.
 - CONTACT THE APPROPRIATE LOCAL, STATE AND/OR FEDERAL AGENCIES, AS NECESSARY.
 - CONTACT A DISPOSAL COMPANY TO PROPERLY DISPOSE OF CONTAMINATED MATERIALS.
 - REPORTING
 - COMPLETE AN INCIDENT REPORT.
 - SUBMIT A COMPLETED INCIDENT REPORT TO LOCAL, STATE AND FEDERAL AGENCIES, AS REQUIRED.

4. PROTECTIVE MEASURES

- A THOROUGH COVER SEARCH OF THE CONSTRUCTION AREA WILL BE PERFORMED BY THE ENVIRONMENTAL MONITOR FOR HERPETOFAUNA PRIOR TO AND FOLLOWING INSTALLATION OF EROSION CONTROL MEASURES/SILT FENCING BARRIERS TO REMOVE ANY SPECIES FROM THE WORK ZONE PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES. ANY HERPETOFAUNA DISCOVERED WOULD BE RELOCATED OUTSIDE THE WORK ZONE IN THE GENERAL DIRECTION THE ANIMAL WAS ORIENTED. PERIODIC INSPECTIONS WILL BE PERFORMED BY THE ENVIRONMENTAL MONITOR THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR'S PROJECT MONITOR WILL INSPECT THE WORK AREA EACH MORNING AND ESCORT INITIAL VEHICLE ACCESS INTO THE SITE EACH MORNING ALONG THE ACCESS DRIVE TO VISUALLY INSPECT FOR ANY HERPETOFAUNA. ANY HERPETOFAUNA DISCOVERED WOULD BE RELOCATED OUTSIDE THE WORK ZONE IN THE GENERAL DIRECTION THE ANIMAL WAS ORIENTED.
- ANY HERPETOFAUNA REQUIRING RELOCATION OUT OF THE WORK ZONE WILL BE CAPTURED WITH THE USE OF A NET OR CLEAN PLASTIC BAG THAT HAS BEEN MOISTENED WITH CLEAN WATER FOR CAREFUL HANDLING AND PLACEMENT OUT OF THE WORK ZONE IN THE GENERAL DIRECTION IT WAS OBSERVED HEADING.
- ANY STORMWATER MANAGEMENT FEATURES, RUTS OR ARTIFICIAL DEPRESSIONS THAT COULD HOLD WATER CREATED INTENTIONALLY OR UNINTENTIONALLY BY SITE CLEARING/CONSTRUCTION ACTIVITIES WILL BE PROPERLY FILLED IN AND PERMANENTLY STABILIZED WITH VEGETATION TO AVOID THE CREATION OF VERNAL POOL "DECOY POOLS" THAT COULD INTERCEPT AMPHIBIANS MOVING TOWARD THE VERNAL POOLS. STORMWATER MANAGEMENT FEATURES SUCH AS LEVEL SPREADERS WILL BE CAREFULLY REVIEWED IN THE FIELD TO ENSURE THAT STANDING WATER DOES NOT ENDURE FOR MORE THAN A 24 HOUR PERIOD TO AVOID CREATION OF DECOY POOLS AND MAY BE SUBJECT TO FIELD DESIGN CHANGES. ANY SUCH PROPOSED DESIGN CHANGES WILL BE REVIEWED BY THE DESIGN ENGINEER TO ENSURE STORMWATER MANAGEMENT FUNCTIONS ARE MAINTAINED.

5. REPORTING

- INSPECTION REPORTS (BRIEF NARRATIVE AND APPLICABLE PHOTOS) WILL BE PREPARED BY THE ENVIRONMENTAL MONITOR DOCUMENTING EACH INSPECTION AND SUBMITTED TO THE PERMITTEE FOR COMPLIANCE VERIFICATION. ANY NON-COMPLIANCE OBSERVATIONS OF EROSION CONTROL MEASURES OR EVIDENCE OF EROSION OR SEDIMENT RELEASE WILL BE IMMEDIATELY REPORTED TO THE PERMITTEE AND ITS CONTRACTOR AND INCLUDED IN THE REPORTS.
- ANY INCIDENTS OF RELEASE OF SEDIMENT OR OTHER MATERIALS INTO WETLAND RESOURCE AREAS SHALL BE REPORTED BY THE PERMITTEE WITHIN 24 HOURS TO THE CONNECTICUT SITING COUNCIL.
- ANY OBSERVATIONS OF RARE SPECIES WILL BE REPORTED TO THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION'S NATURAL DIVERSITY DATA BASE PROGRAM.
- FOLLOWING COMPLETION OF THE PROJECT, A SUMMARY REPORT WILL BE PREPARED BY THE ENVIRONMENTAL MONITOR DOCUMENTING COMPLIANCE WITH THE WETLAND AND VERNAL POOL PROTECTION PLAN AND SUBMITTED TO THE PERMITTEE.

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APPROVED FOR CONSTRUCTION

NO	DATE	REVISION
0	01/27/19	FOR GENERAL PERMIT: BJP
1	04/09/20	FOR CONSTRUCTION: BJP
2	05/27/20	PRE-CON NOTES EC3: BJP
3	06/11/20	CON NOTES EC1&EC2: BJP
4	01/08/21	MODULE LAYOUT D&M: BJP
5		
6		

DESIGN PROFESSIONAL OF RECORD

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POWER LINES SOLAR

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APT FILING NUMBER: CT580100

	DRAWN BY: JT
DATE: 01/27/19	CHECKED BY: BJP

SHEET TITLE:

ENVIRONMENTAL NOTES

SHEET NUMBER:

DN-4

