MAJOR SITE PLAN & SPECIAL PERMIT

LARGE SCALE SOLAR ARRAY

PARCEL NUMBER 40-0-79 GREENWICH ROAD TOWN OF WARE COUNTY OF HAMPSHIRE, MASSACHUSETTS

TOWN OF WARE

ZONE - RR AREA -60,000 S.F. FRONTAGE - 150' FRONT - 25 FT. (SOLAR) SIDE - 25 FT. (SOLAR)

REAR - 25 FT. (SOLAR)
50 FT. MIN BUFFER TO RESIDENTIAL USE FOR SOLAR FIELD

RECORD PARCELS (ASSESSORS) WARE 40-0-79

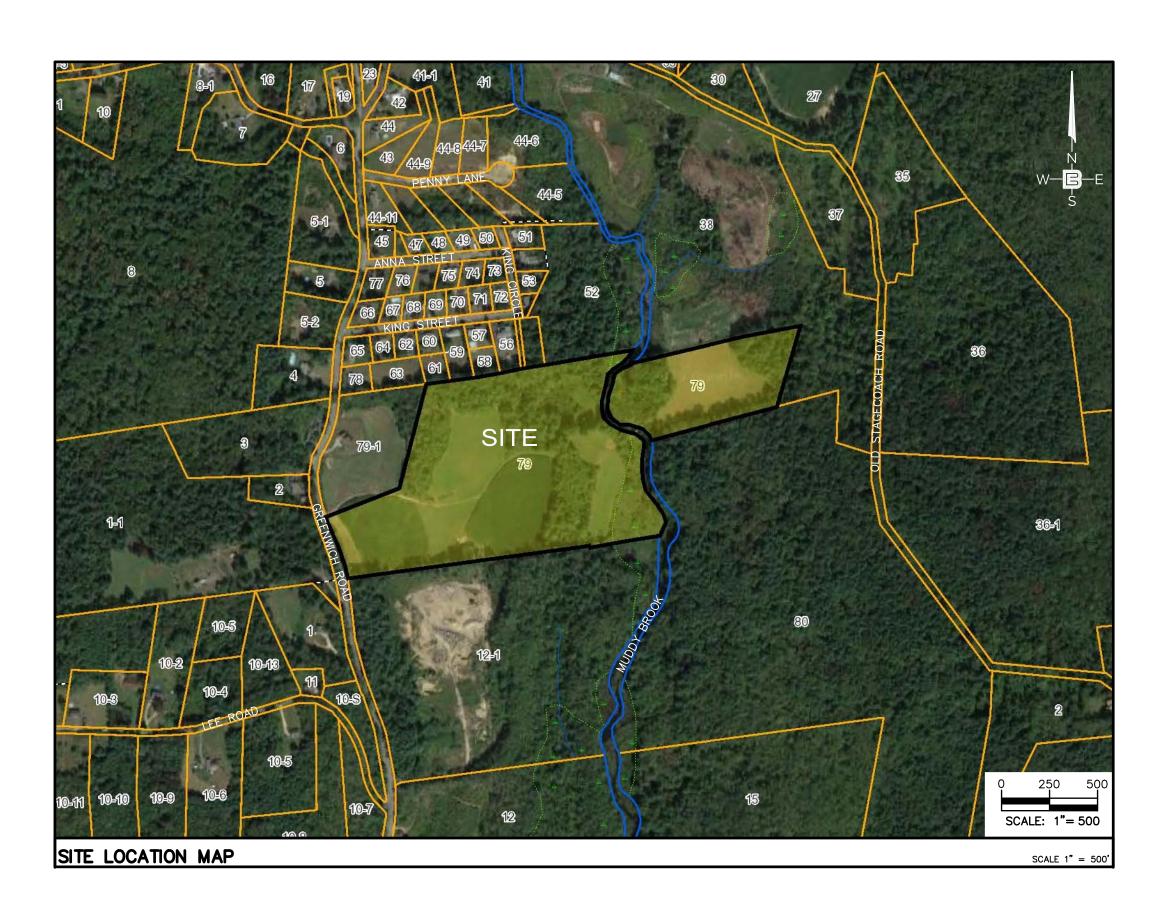
RECORD OWNERS

EDWARD COUTUF PO BOX 1041 WARE, MA 01082

DB.9018 PG.321

DEVELOPER/APPLICANT

c/o MELINK SOLAR DEVELOPMENT 276 N. FOREST AVE. NE MARIETTA, GA 30060



TOWN OF WARE PLANNING BOARD

DRAWING LIST				
DWG. #	DRAWING TITLE	DATED/ LAST REVISED	REV. #	
C1.1	COVER SHEET	02-04-21	6	
C1.2	EXISTING CONDITIONS PLAN	01-20-21	1	
C1.3	OVERALL SITE PLAN	02-04-21	4	
C2.1	SOIL EROSION & SEDIMENT CONTROL PLAN	01-20-21	4	
C2.2	SITE PLAN	01-29-21	5	
C2.3	GRADING PLAN	01-20-21	4	
C2.4	VEHICLE CIRCULATION PLAN	10-21-19	0	
C3.1	SITE & DRAINAGE DETAILS	01-20-21	3	
C3.2	SITE DETAILS - 2	10-21-19	0	
C3.3	SOIL EROSION & SEDIMENT CONTROL AND LANDSCAPE DETAILS	01-20-21	1	

39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 ww.bertinengineering.com

> **BERTIN** ENGINEERING



CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER

CT LIC. NO. 12950 NJ LIC. NO. 28845
MA LIC. NO. 40595 NY LIC. NO. 60022
NH LIC. NO. 9368 RI LIC. NO. 6694

BRUCE A. FITZBACK, P.L.S
PROFESSIONAL LAND SURVEYOR
MA LIC. NO. 37731
CT LIC. NO. 16970

NOT VALID UNTIL SEALED

E.Q.	E.Q.	E.Q.	E.Q.	E.Q.	E.Q.	
REVISION TO DRAWLING LIST	REVISION					
-04-21	29–21	20–21	11–21	04-20	01–19	ATE

COVER SHEET

LARGE SCALE SOLAR ARRAY

PARCEL NUMBER 40-0-79
179 GREENWICH ROAD
TOWN OF WARE

CLIENT

WARE SOLAR IV LLC 276 N. FOREST AVE. NE MARIETTA, GA 30060

CERTIFICATE OF AUTHORIZATION
24GA28068900 / 21MH00002800

DRAWN BY
J.A.S.

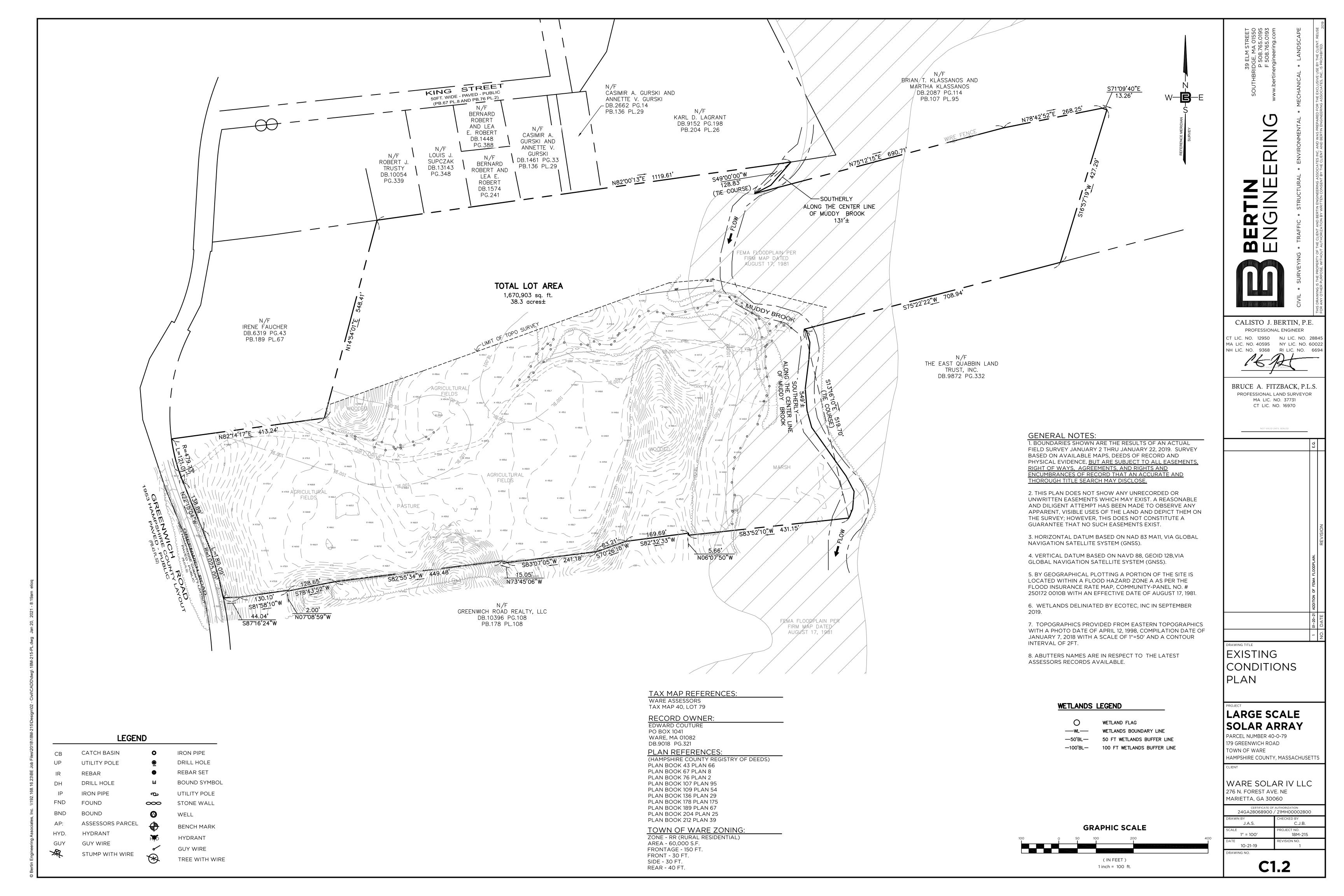
C.J.B.

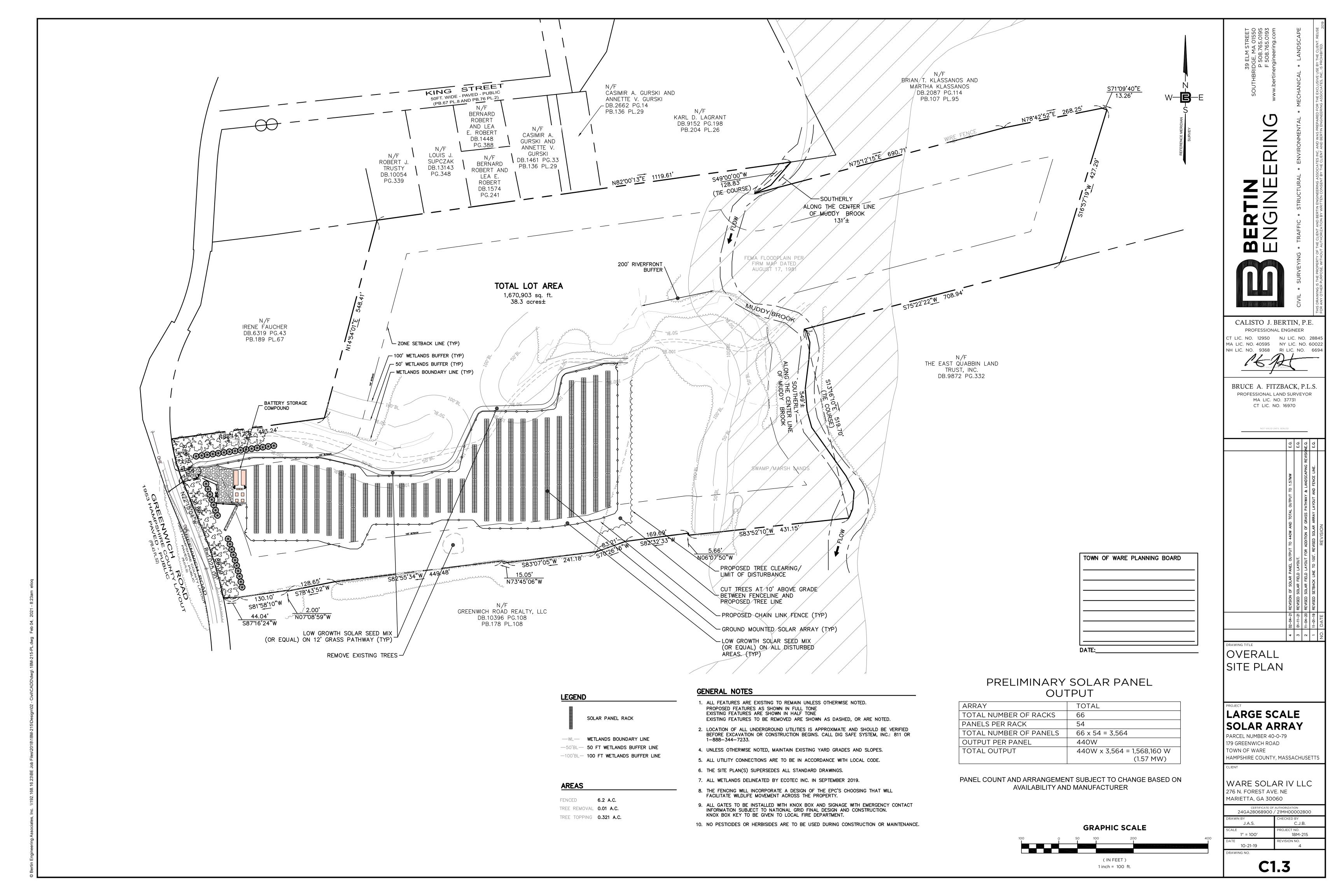
SCALE
PROJECT NO.
AS SHOWN
18M-215

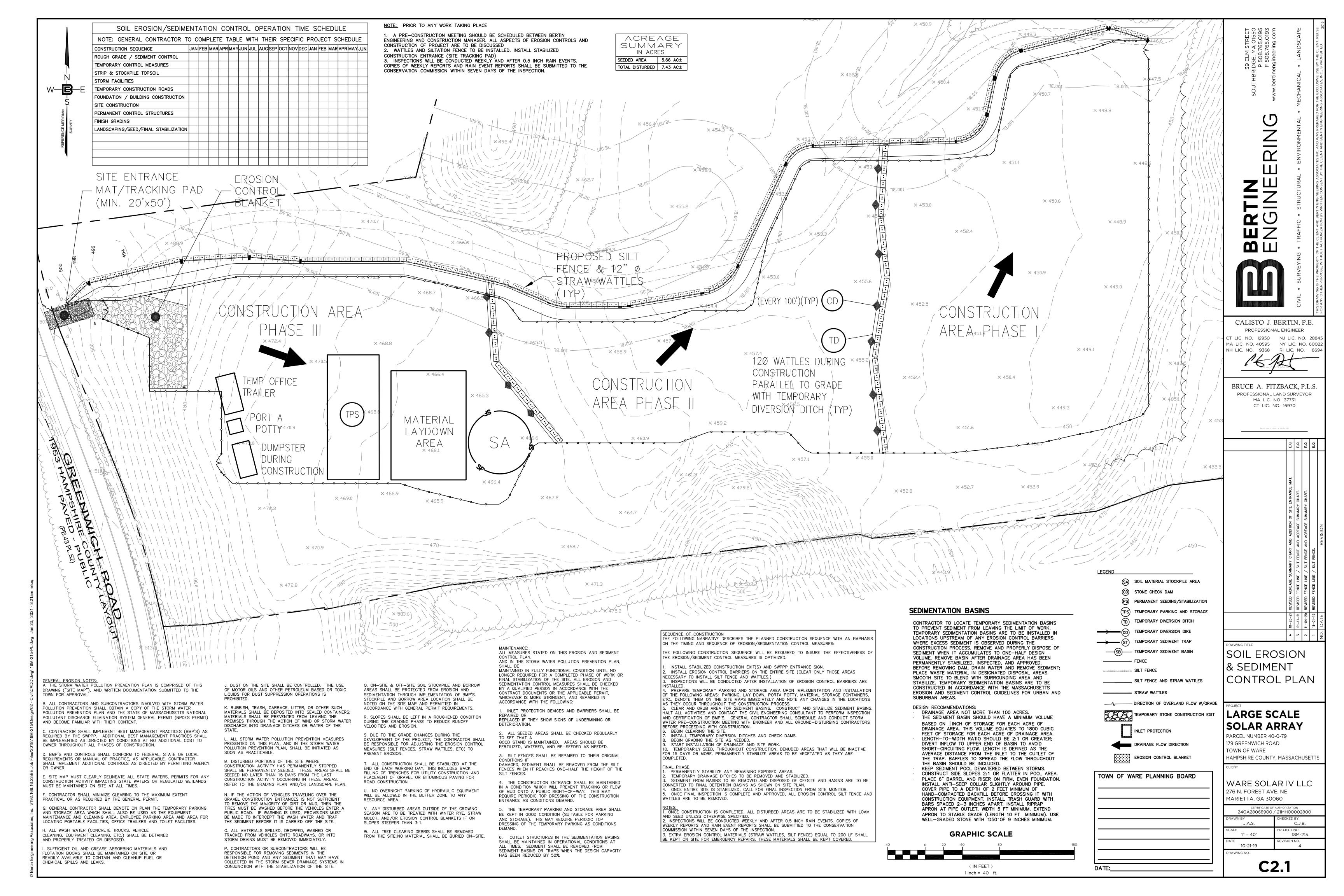
DATE
REVISION NO.
10-21-19
6

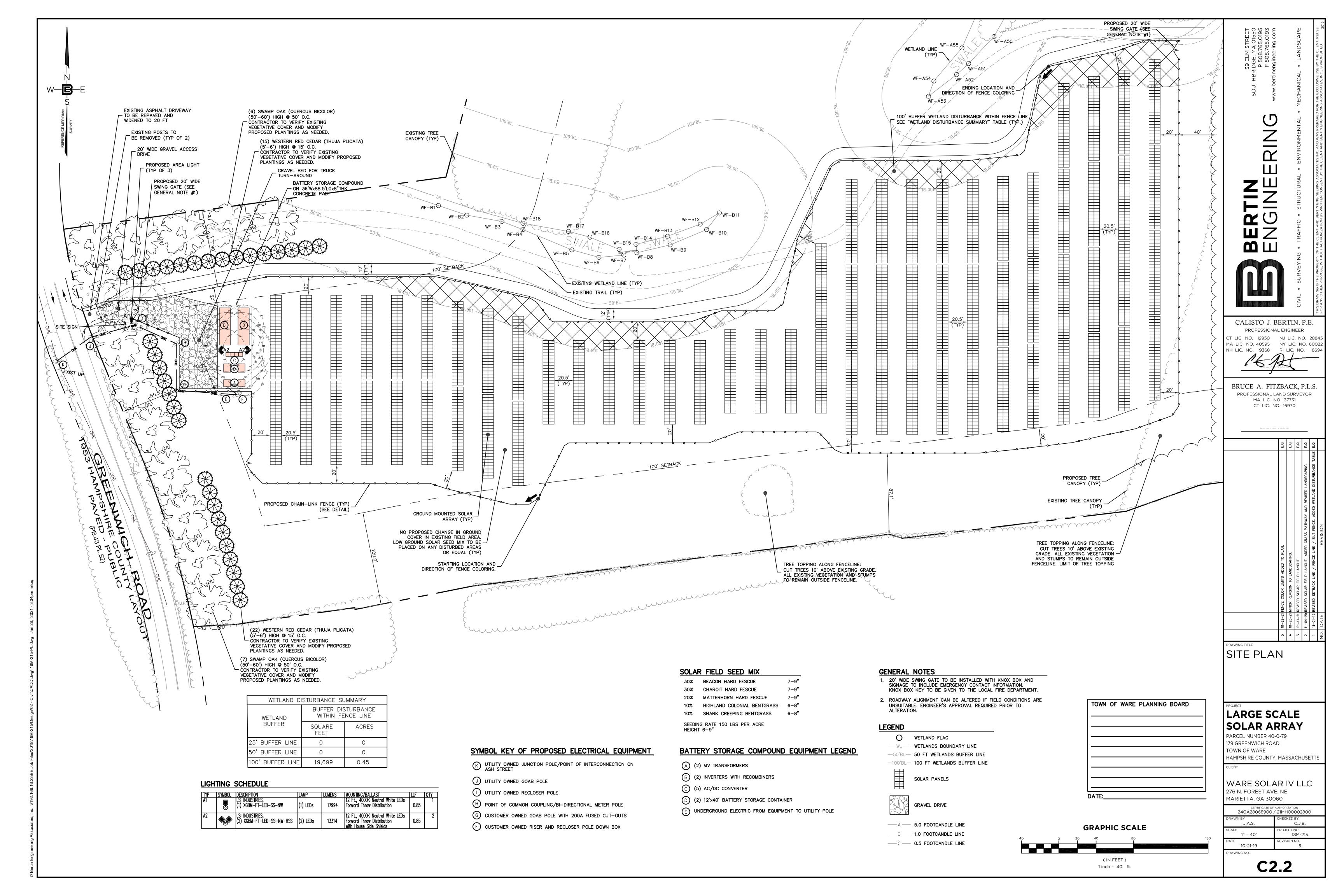
HAMPSHIRE COUNTY, MASSACHUSETT

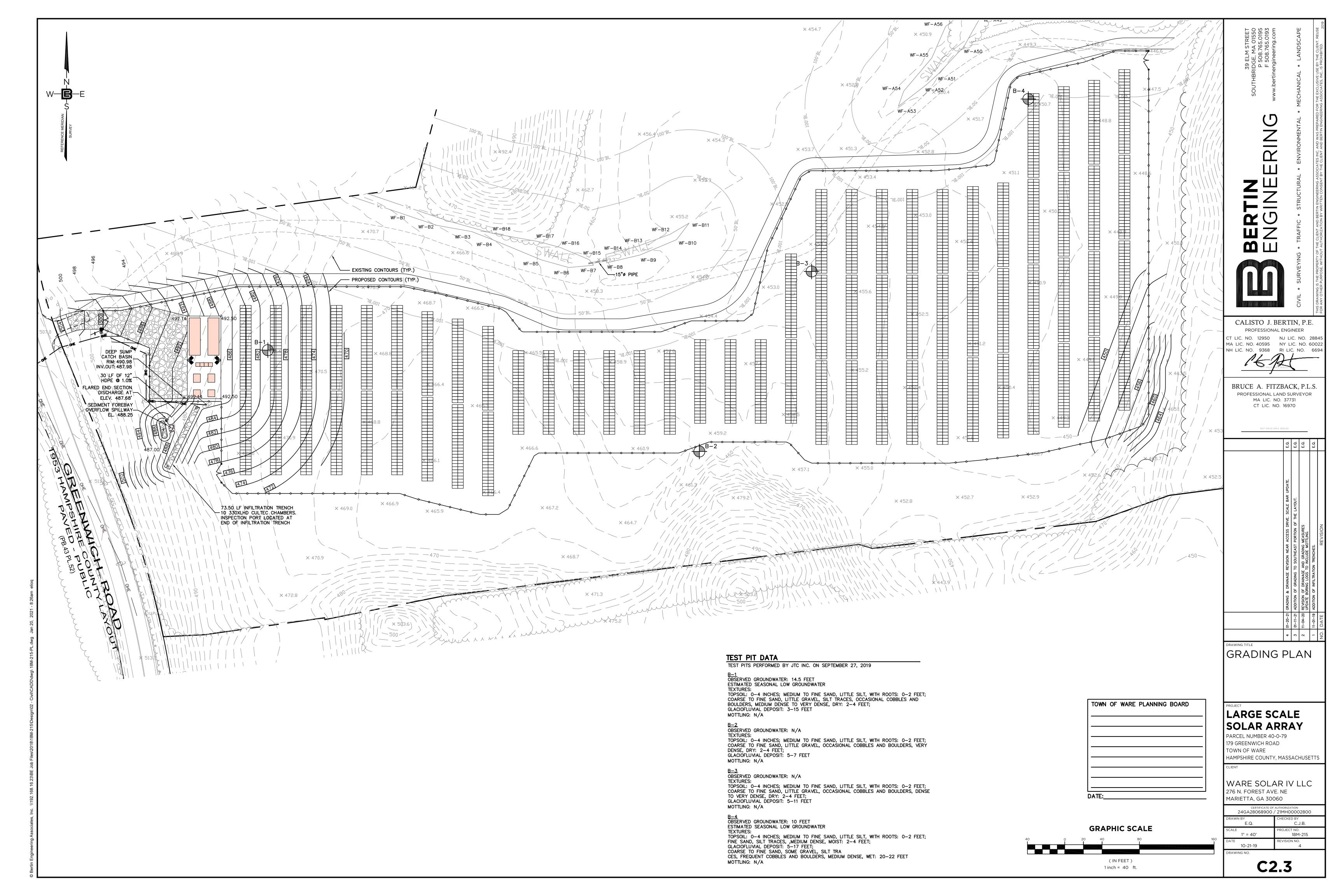
C1.1

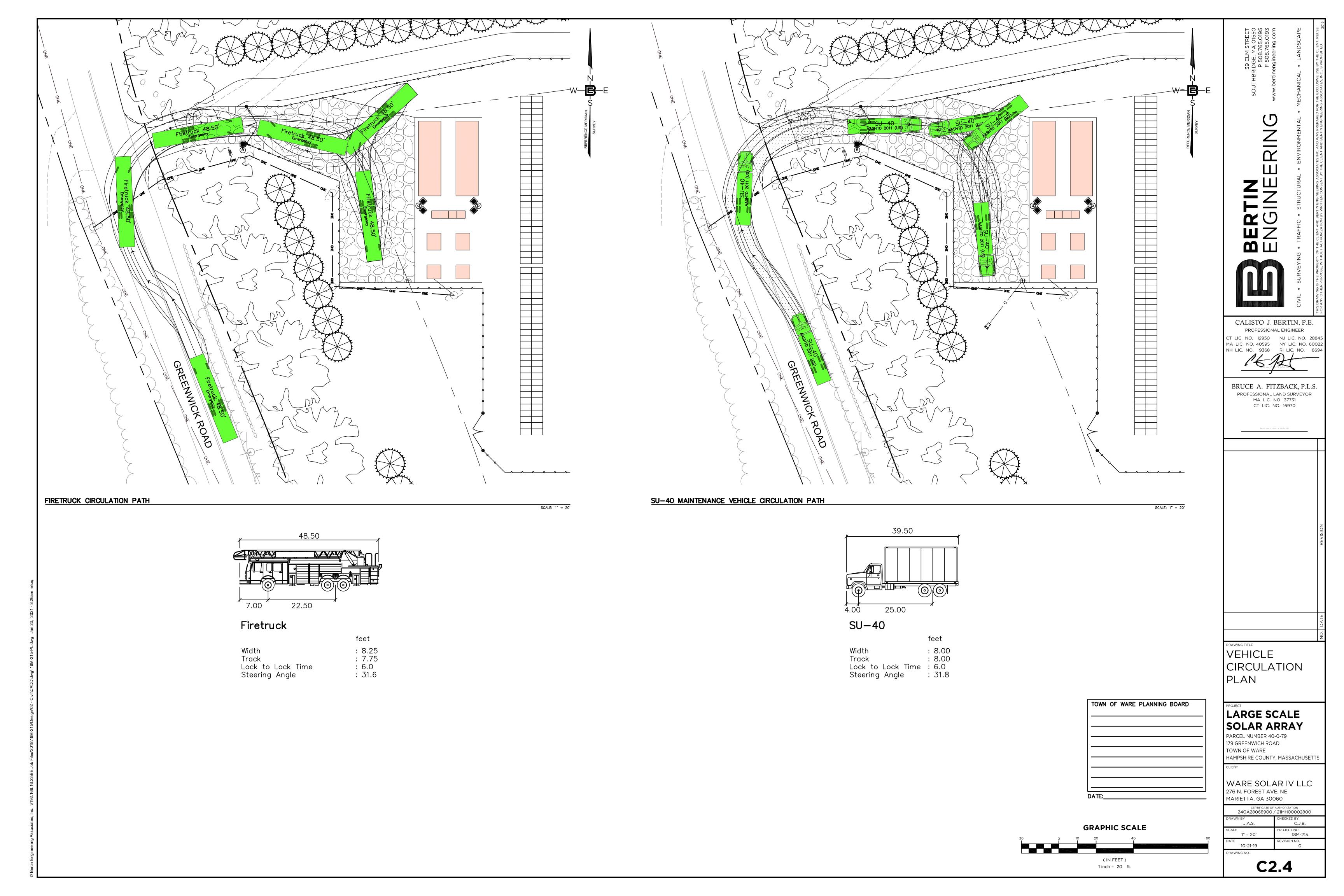


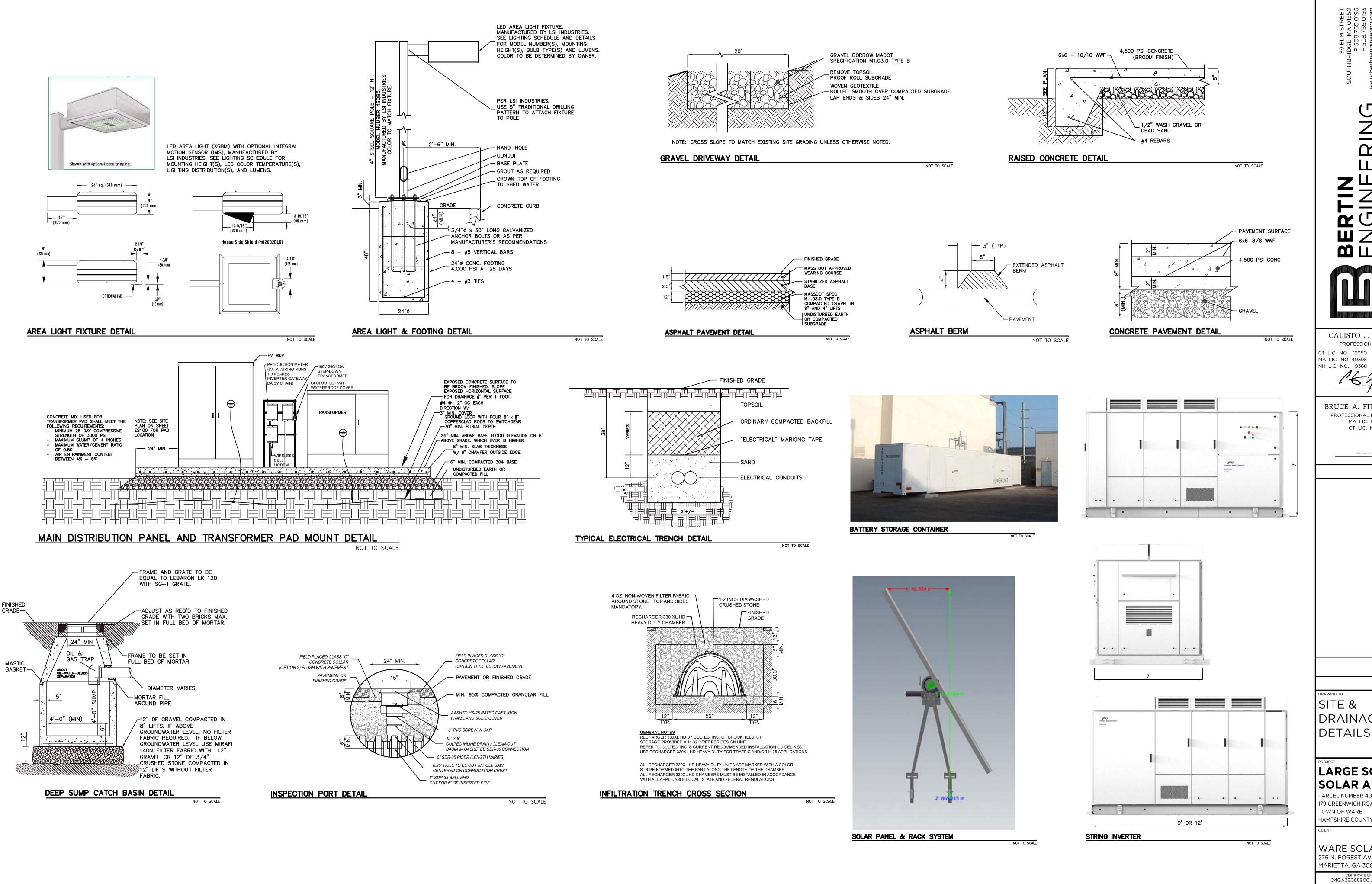












39 ELM STREE IDGE, MA 015! P 508.765.01! F 508.765.01 Z

CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER T LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 6002 NH LIC. NO. 9368 RI LIC. NO. 669

BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

DRAINAGE

LARGE SCALE **SOLAR ARRAY**

PARCEL NUMBER 40-0-79 179 GREENWICH ROAD HAMPSHIRE COUNTY, MASSACHUSETTS

AS SHOWN

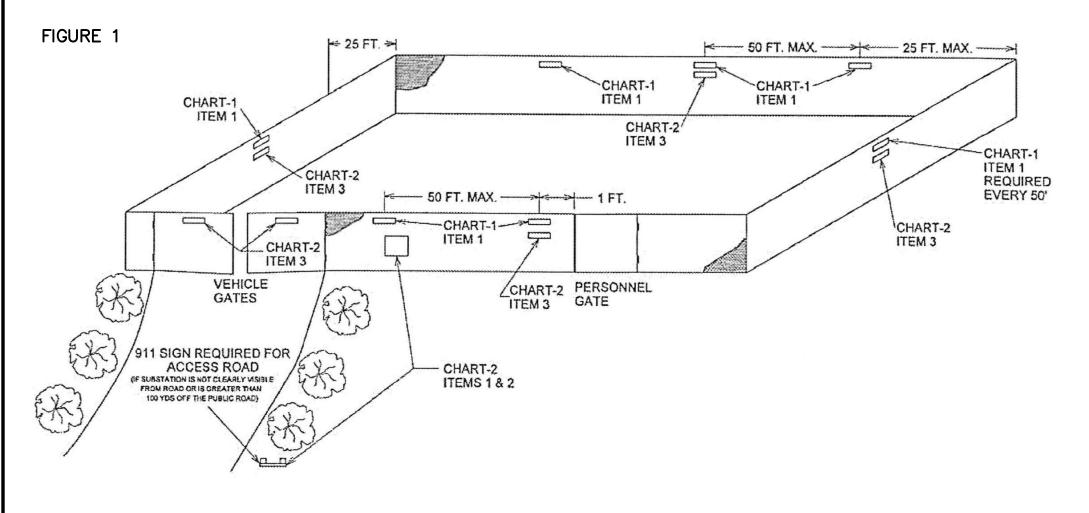
10-21-19

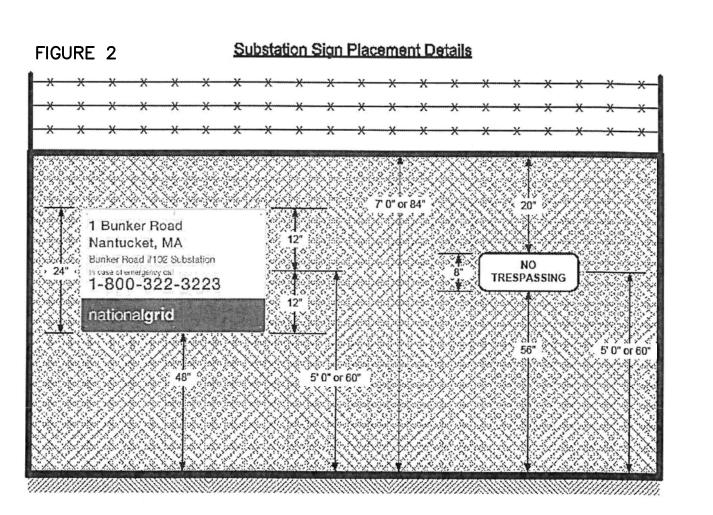
WARE SOLAR IV LLC 276 N. FOREST AVE. NE

MARIETTA, GA 30060 24GA28068900 / 21MH00002800 C.J.B. J.A.S.

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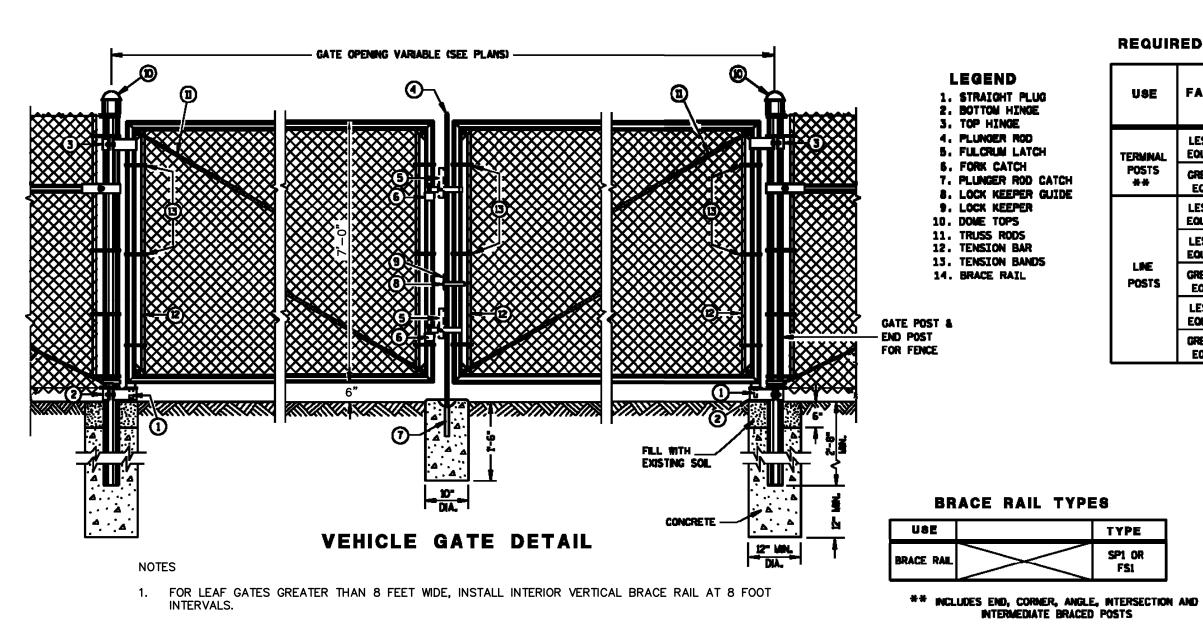
C3.1





- 1. SIGN CHAIN-LINK FENCES USING "DANGER" SIGN (CHART-1 ITEM 1).
- 2. SIGN CHAIN-LINK FENCES USING "NO TRESPASSING" SIGN (CHART-2 ITEM 3).
- 3. SIGN 4"x4" POSTS AT ACCESS ROAD AND CHAIN-LINK FENCES USING STATION "911" SIGN (CHART-2 ITEM 1 & 2).
- 4. ALL SIGNS SHALL BE MOUNTED AS CLOSE TO A HEIGHT OF 60" (1525mm) ABOVE GRADE TO THE CENTERLINE OF THE SIGN AS POSSIBLE. ATTACH SIGNS AS LEVEL AS POSSIBLE.
- 5. SIGN ALL GATES AT A HEIGHT OF 60" (1525mm) ABOVE GRADE TO THE CENTERLINE OF SIGN WITH SIGN AT GATE CENTER.
- 6. FENCE SIDES THAT CONTAIN NO GATES SHOULD HAVE SYMMETRICAL SIGN PLACEMENT AS MUCH AS IS POSSIBLE.
- 7. MAXIMUM DISTANCE BETWEEN SIGNS ALONG FENCE PERIMETER NOT TO EXCEED 50 FEET.
- 8. REFER TO FIGURE 1 AND 2 FOR PLACEMENT DETAIL.
- 9. SIGN UNHINGED SIDE OF SINGLE GATES AT A HEIGHT OF 60" (1525mm) ABOVE GRADE TO CENTERLINE OF SIGN ONE FOOT FROM GATE POST.
- 10. ALL FIGURES AND NOTES TAKEN FROM "NATIONALGRID" ENGINEERING DOCUMENT #ST.03.06.001, PG 14 OF 22, VERSION 1.0 DATED 3-9-09.

SIGN PLACEMENT ON PERIMETER GATES & FENCES



2. FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

3. MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE

LEGEND 1. STRAIGHT PLUG 2. BOTTOM HINGE 3. TOP HINGE 4. PLUNGER ROD 5. FULCRUM LATCH . FORK CATCH 9. LOCK KEEPER 11. TRUSS RODS 12. TENSION BAR 13. TENSION BANDS 14. BRACE RAIL

7. PLUNGER ROD CATCH 8. LOCK KEEPER GUIDE

BRACE RAIL TYPES

TYPE

VSE	FABRIC HEIQHTS FEET	POST Type	POST TYPE		
ERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3	SP1		
POSTS ##	GREATER THAN OR EQUAL TO 6 FT.	SP4	SP2		
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2	SP3		
	LESS THAN OR EQUAL TO 8 FT.	SP3	SP4		
	GREATER THAN OR EQUAL TO 8 FT.	SP4	SP5		
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2+	SP6		
	GREATER THAN OR EQUAL TO 8 FT.	FS3	357		

REQUIRED FENCE POST SIZES

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING) LENGTH (L) WIDTH (W) WEIGHT POST TYPI LB8/FT 1.625 1.25 1.35 FS2† 1.875 1.625 1.850 FS2 1.875 1.625 2.400 FS3 2.250 1.700 2.780

REQUIRED POST

SIZE FOR GATES

ROUND STEEL FENCE POST

(1.8 OZ./SQ. FT. COATING)

DIMENSION

INCH

2.375

2.875

4.000

6.625

8.625

WALL THICKNESS

INCH

0.140

0.145

0.154

0.203

0.226

0.280

0.322

WEIGHT

LB8/FT

2.270

2.720

5.800

9.120

18.990

28.580

USE	LEAF WIDTHS FEET	POST TYPE
	LESS THAN OR EQUAL TO 5 FT.	SP4
GATES	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

CHAIN LINK FENCE GATE DETAIL

WIDTH OR 2 INCHES.

SOLAR FACILITY SOLAR FACILITY OWNER ADDRESS CONTACT PHONE # DEVELOPER ADDRESS CONTACT PHONE # ADDRESS CONTACT PHONE # 24 HOUR EMERGENCY CONTACT PHONE NUMBER 911 DO NOT ENTER 106A ALUMINUM SIGN VINYL CONTACT LETTERING SITE SIGN DETAIL

SITE SIGN — 3 1/2" WIDE HEAVY DUTY STEEL RAIL CHANNEL POST W/ 3/8" HOLES 1" O.C. GREEN BAKED ENAMEL BREAKAWAY SIGN POST SYSTEM

SITE SIGN INSTALLATION DETAIL

BRACE RAIL 1-1/4"ø PIPE -2" MESH: 9 GAUGE GALVANIZED WOVEN WIRE FABRIC FABRIC TIES @ 9 GAUGE WIRE LINE POST CAP 12" APART (MAX.) END POST CAP -1" x 1/8" BRACE AND STRETCHER BAR BANDS WITH 5/16" CARRIAGE FABRIC TIE @ 9 GAUGE 10" APART (MAX.) BOLTS WITH ELASTIC STOP NUTS _ 2 3/8"ø (MIN.) GALVANIZED FENCE POST TERMINAL OR CORNER POSTS: | 2 7/8"ø (MIN.) GALVANIZED — FENCE POST 1/4" x 3/4" STRETCHER BAR HOG RING FASTENERS 12"
APART (MAX.) 11 GAUGE STRETCHER BAR BANDS | 10" APART (MIN.) _BOTTOM TENSION WIRE (0.1675"ø MIN.) BRACE BAND FOR TENSION WIRE - PITCH TO DRAIN NOTE: THERE SHALL BE A 6" GAP BETWEEN THE GROUND
AND THE BOTTOM OF THE - CLASS D CONC. FENCE (TYP) - PLUG END OF PIPE TERMINAL AND/OR CORNER POST FOOTINGS 10"ø 10'-0" NOMINAL POST SPACING (TYP.)

1. ALL TIES, HOG RINGS AND CLIPS SHALL BE GALVANIZED.

- 2. FABRIC SHALL BE GALVANIZED WIRE, ALL PIPE TO CONFORM TO CURRENT ASTM DESIGNATION F 1083, SCHEDULE 40, PLAIN END.
- 3. BRACE RAIL AND ROD AT CORNER AND END SECTION ONLY. 4. ALL REFERENCES TO PIPE DIAMETER ARE ASTM NOMINAL SIZE.
- 5. WITH THE APPROVAL OF THE ENGINEER, IN SOFT MARSHY GROUND, POSTS MAY BE DRIVEN, THE CONCRETE FOOTING DELETED AND APPROVED DRIVE ANCHORS USED.

CHAIN LINK FENCE DETAIL

SITE DETAILS - 2

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LARGE SCALE **SOLAR ARRAY**

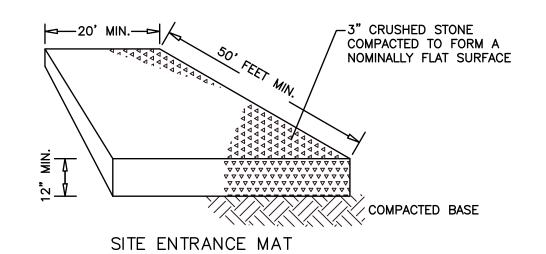
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TOWN OF WARE HAMPSHIRE COUNTY, MASSACHUSETTS

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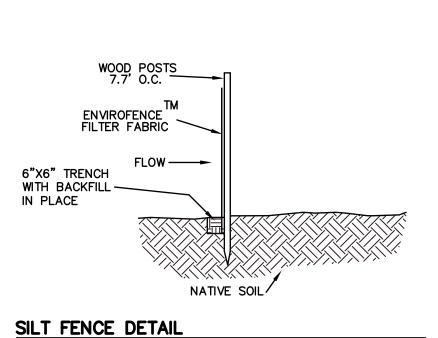
MARIETTA, GA 30060 24GA28068900 / 21MH00002800 C.J.B. J.A.S. AS SHOWN 18M-215 10-21-19

C3.2



THE TOWN ROAD WILL BE SWEPT DAILY WHEN HAULING IS IN PROGRESS. CRUSHED STONE SHALL BE REPLACED WHEN DEPOSITED SOILS ACCUMULATE TO THE EXTENT THAT THEY LESSEN THE EFFECTIVENESS OF THE MAT

TRACKING PAD DETAIL



NOT TO SCALE

TOP SOIL & SEED DETAIL

FILTER FABRIC-ENVIROFENCE TM FILTER FABRIC ─ 12"ø STRAW WATTLE PLAN VIEW CROSS SECTION

SILT FENCE AND STRAW WATTLE DETAIL

FLOW

2"X2"X3' STAKES

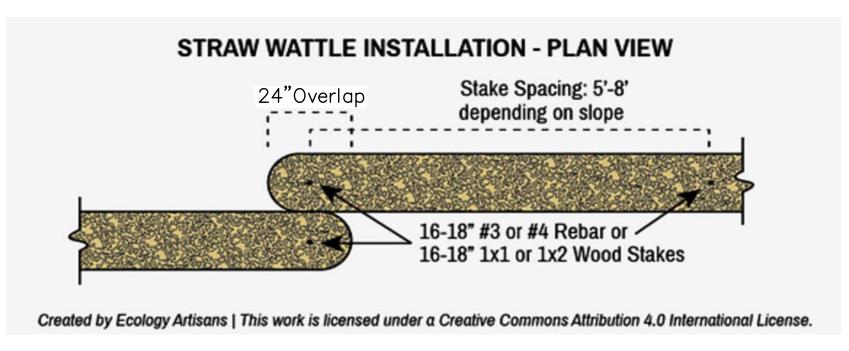
STAKE WATTLE @ 4'

,12"ø STRAW WATTLES SET

IN A 2" TRENCH 24" OVERLAP AT SEAMS STAKE

WITHIN 24" OF EACH END

EMBED FILTER FABRIC 6"



WATTLE INSTALLATION DETAIL

Z

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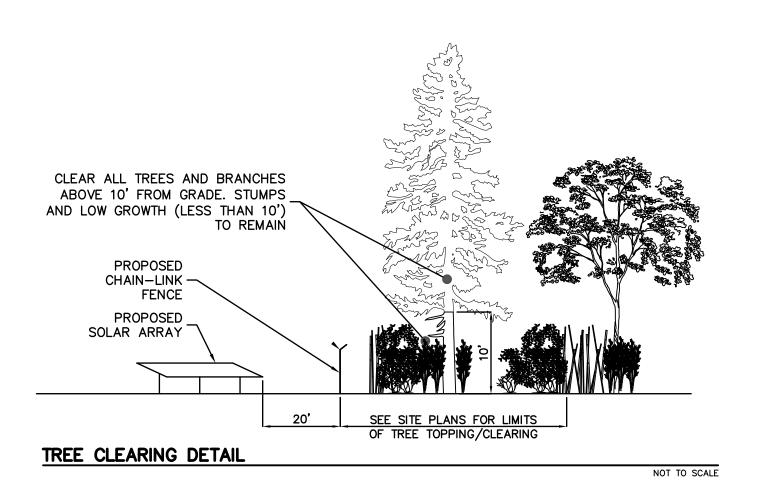
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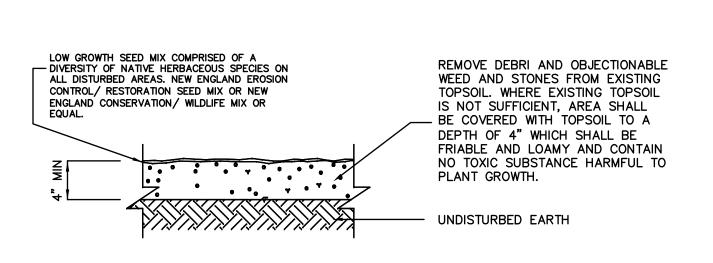
PROFESSIONAL LAND SURVEYOR

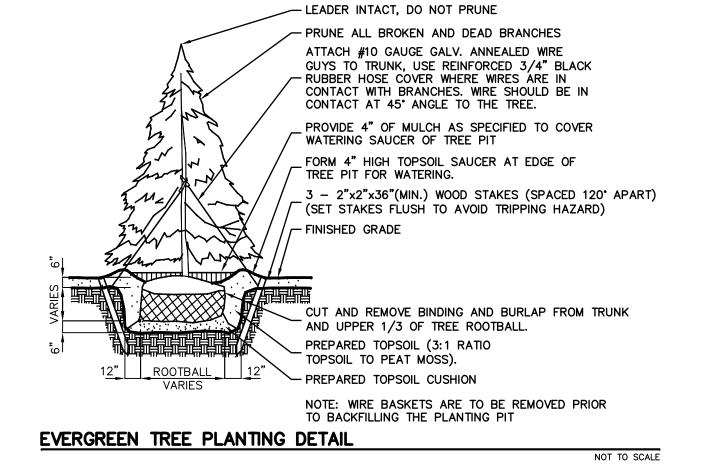
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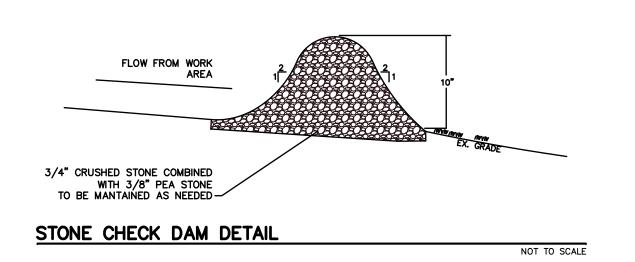
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SOIL EROSION & SEDIMENT CONTROL AND LANDSCAPE

LARGE SCALE SOLAR ARRAY

PARCEL NUMBER 40-0-79 179 GREENWICH ROAD TOWN OF WARE HAMPSHIRE COUNTY, MASSACHUSETTS

DETAILS

WARE SOLAR IV LLC 276 N. FOREST AVE. NE MARIETTA, GA 30060

certificate of authorization 24GA28068900 / 21MH00002800 ROJECT NO. 18M-215 10-21-19

C3.3