MAJOR SITE PLAN & SPECIAL PERMIT

LARGE SCALE SOLAR ARRAY

PARCEL NUMBER 40-14-9
278 OSBORNE ROAD
TOWN OF WARE, HAMPSHIRE COUNTY
BK 51160-177, LOT 14
TOWN OF HARDWICK, WORCESTER COUNTY
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)

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

TOWN OF HARDWICK

ZONE - AR-60 AREA -60,000 S.F. FRONTAGE - 200' FRONT - 35 FT. SIDE - 40 FT. REAR - 20 FT.

50 FT. MIN BUFFER TO RESIDENTIAL USE

RECORD PARCELS (ASSESSORS)

HARDWICK 124/094.0-0000-0014.0

RECORD OWNERS
JOEL J HARDER

54 GOULD ROAD WARE, MA 01082 DB.11374 PG.181

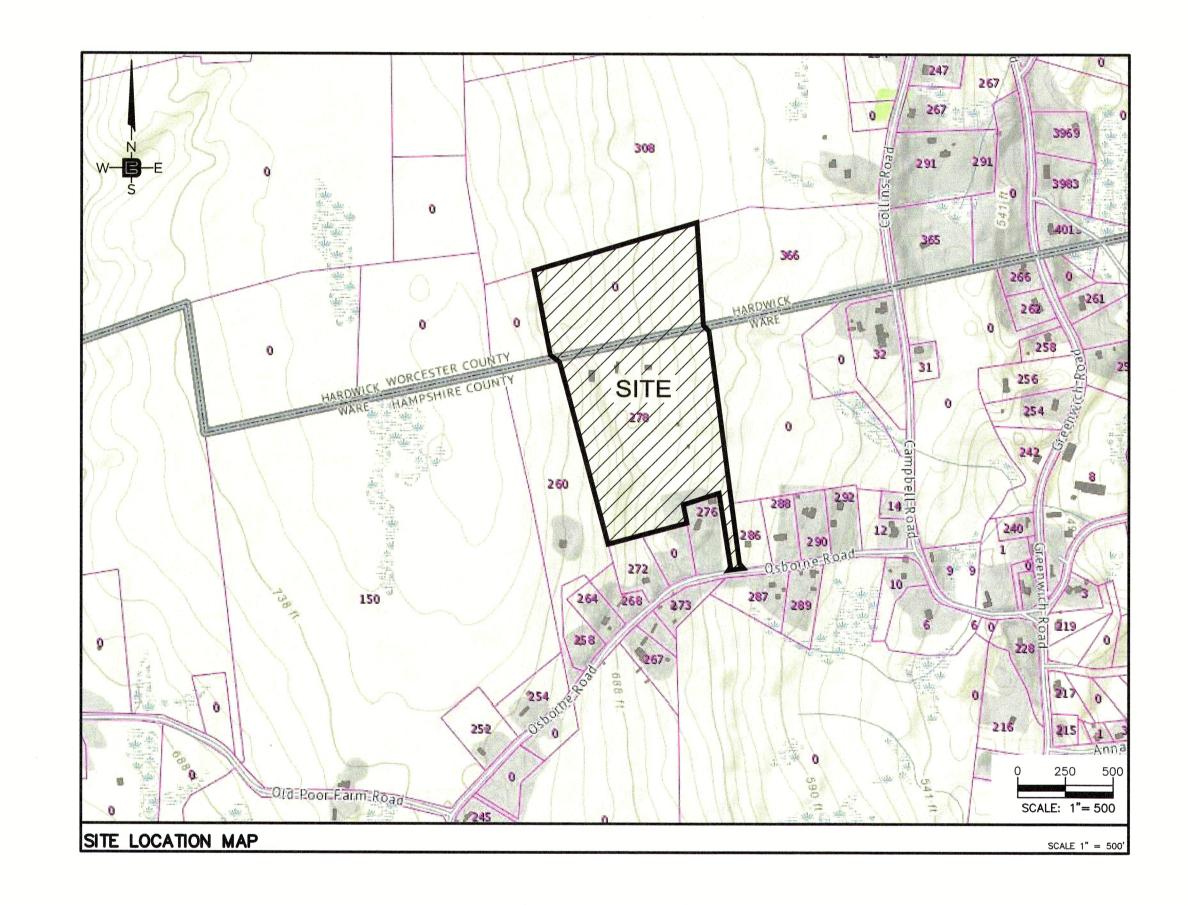
DB.51160 PG.177

DEVELOPER/APPLICANT

MELINK SOLAR DEVELOPMENT 276 N. FOREST AVE. NE MARIETTA. GA 30060

<u>PERMITS</u>

SPECIAL PERMIT - WARE PLANNING BOARD
NOTICE OF INTENT- WARE CONSERVATION COMMISSION
NOTICE OF INTENT- HARDWICK CONSERVATION COMMISSION
SITE PLAN REVIEW - HARDWICK PLANNING BOARD



	DRAWNG LIST					
DWG. #	DRAWING TITLE	DATED/ LAST REVISED	REV. #			
C1.1	COVER SHEET	2-22-21	3			
C1.2	EXISTING CONDITIONS PLAN	2-22-21	2			
C1.3	OVERALL SITE PLAN	2-22-21	4			
C2.1	SOIL EROSION & SEDIMENT CONTROL PLAN	2-22-21	3			
C2.2	SITE PLAN (SECTION 1)	2-22-21	3			
C2.3	SITE PLAN (SECTION 2)	2-22-21	2			
C2.4	GRADING PLAN & DRAINAGE PLAN (SECTION 1)	2-22-21	3			
C2.5	GRADING PLAN & DRAINAGE PLAN (SECTION 2)	7-31-20	2			
C2.6	VEHICLE CIRCULATION PLAN	2-22-21	3			
C2.7	ROAD PLAN & PROFILE	2-22-21	1			
C3.1	SITE DETAILS	2-22-21	2			
C3.2	SITE DETAILS - 2	10-21-19	0			
C3.3	SOIL EROSION & SEDIMENT CONTROL AND LANDSCAPE DETAILS	2-22-21	2			
C3.4	DRAINAGE DETAILS	2-22-21	1			

TOWN OF HARDWICK PLANNING BOARD

TOWN OF WARE PLANNING BOARD

DATE:

DATE:

CALISTO J. BERTIN.
PROFESSIONAL ENGINE
LIC. NO. 12950 BENJINIC. V.
PROFESSIONAL LAND SURV
MA LIC. NO. 16970

BRUCE A. FITZBACK,
PROFESSIONAL LAND SURV
MA LIC. NO. 16970

CT LIC. NO. 16970

DALLI SALVINED DRAWING | 1 11-7-19 REVISED DRAWING |

LARGE SCALE SOLAR ARRAY 278 OSBORNE ROAD PARCEL NUMBER 40-14-9

TOWN OF WARE, HAMPSHIRE COUNTY
NK 51160-177, LOT 14
TOWN OF HARDWICK, WORCESTER COUNTY
MASSACHUSETTS

WARE SOLAR II LLC
276 N. FOREST AVE. NE
MARIETA, GA 30060

CERTIFICATE OF AUTHORIZATION
24GA28068900 / 21MH00002800

DRAWN BY
J.A.S.

C.J.B.

SCALE
1" = 100'

DATE
10-21-19

DRAWING NO.

C1 1



GENERAL NOTES:

1. BOUNDARIES SHOWN ARE THE RESULTS OF AN ACTUAL FIELD SURVEY JANUARY 2 THRU JANUARY 22, 2019. SURVEY BASED ON AVAILABLE MAPS, DEEDS OF RECORD AND PHYSICAL EVIDENCE, BUT ARE SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AGREEMENTS, AND RIGHTS AND ENCUMBRANCES OF RECORD THAT AN ACCURATE AND THOROUGH TITLE SEARCH MAY DISCLOSE.

2. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND AND DEPICT THEM ON THE SURVEY; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.

3. HORIZONTAL DATUM BASED ON NAD 83 MA11, VIA GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS).

4. VERTICAL DATUM BASED ON NAVD 88, GEOID 12B, VIA GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS).

5. WETLANDS DELINIATED BY ECOTEC, INC IN OCTOBER 2019.

6. TOPOGRAPHICS PROVIDED FROM EASTERN TOPOGRAPHICS WITH A PHOTO DATE OF JANUARY 7, 2019 AND COMPILATION DATE OF OCTOBER 11, 2019 WITH A SCALE OF 1"=40' AND A CONTOUR INTERVAL OF 2FT.

7. ABUTTERS NAMES ARE IN RESPECT TO THE LATEST ASSESSORS RECORDS AVAILABLE.

TAX MAP REFERENCES:

TAX MAP 40-14-9

HARDWICK ASSESSORS TAX MAP REF: MAP 94, LOT 14

PLAN REFERENCES: (HAMPSHIRE COUNTY REGISTRY OF DEEDS) PLAN BOOK 186 PLAN 24

LEGEND

CATCH BASIN IRON PIPE UTILITY POLE DRILL HOLE REBAR SET REBAR BOUND SYMBOL DRILL HOLE IRON PIPE UTILITY POLE FND FOUND STONE WALL ∞ BND BOUND ASSESSORS PARCEL BENCH MARK HYD. HYDRANT HYDRANT GUY GUY WIRE GUY WIRE STUMP WITH WIRE TREE WITH WIRE

WETLANDS LEGEND

WETLAND FLAG WETLANDS BOUNDARY LINE -100'BL- 100 FT WETLANDS BUFFER LINE

WARE ASSESSORS

RECORD OWNERS

JOEL J HARDER 54 GOULD ROAD WARE, MA 01082 DB.11374 PG.181 DB.51160 PG.177

GRAPHIC SCALE (IN FEET) 1 inch = 100 ft.

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

EXISTING CONDITIONS PLAN

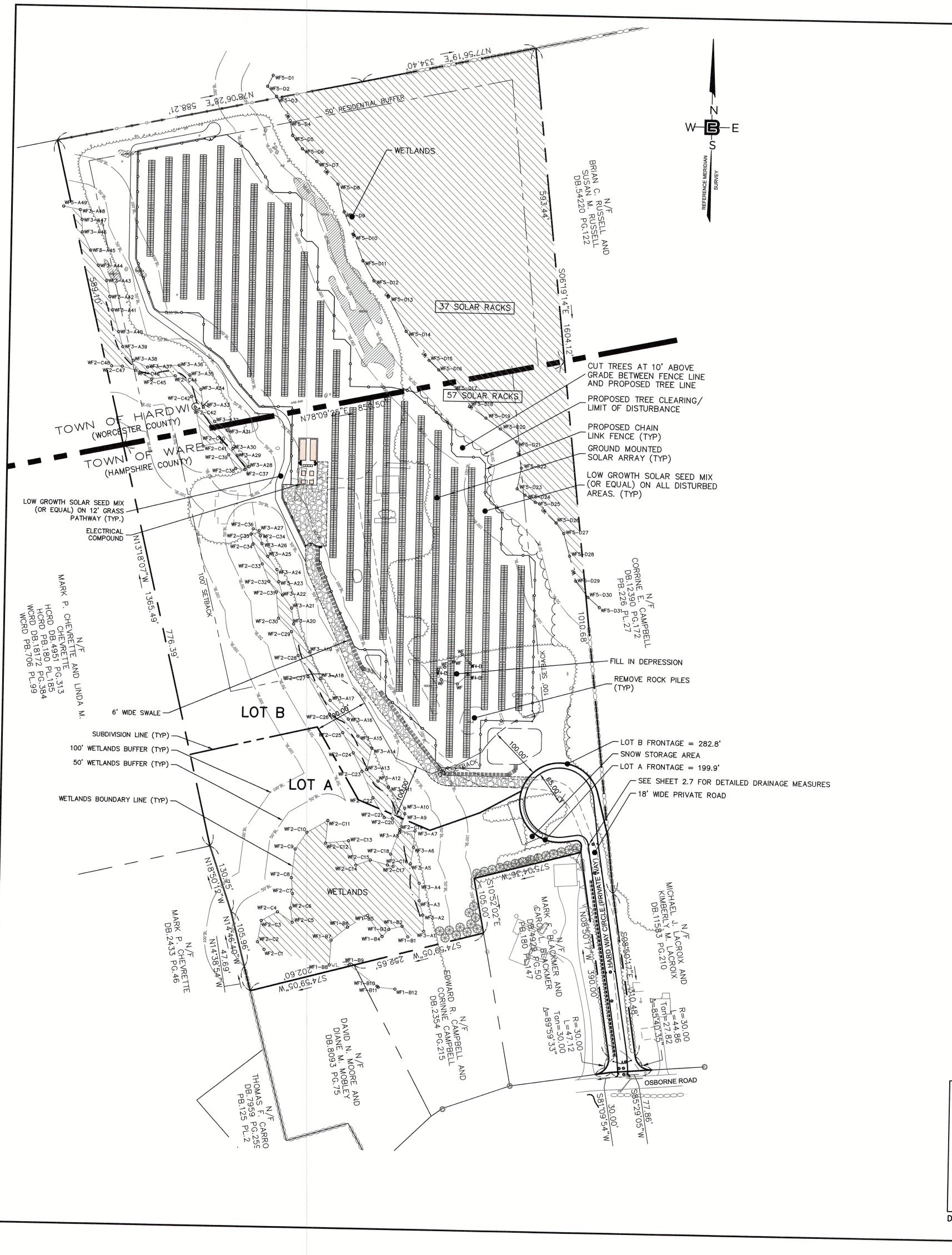
LARGE SCALE SOLAR ARRAY

278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 E.Q. C.J.B. 1" = 100' 10-21-19

C1.2



ZONING DIMENSION SCHEDULE

TOWN OF WARE			
ZONE: RR (RURAL RES	SIDENTIAL)		
AREA (SF)	REQUIRED	<u>LOT A</u>	LOT B
	60,000	189,336.2	620,956.2 (TOWN OF WARE)
FRONTAGE (FT) SETBACKS (ZONE RR):	150	199.9	1,143,533.6 (TOTAL) 282.8
FRONT (FT) SIDE (FT) REAR (FT) SETBACKS (SOLAR):	30	TO COMPLY	N/A
	30	TO COMPLY	N/A
	40	TO COMPLY	N/A
FRONT (FT)	100	N/A	113.4
SIDE (FT)	100	N/A	110.5
REAR (FT)	100	N/A	0 (VARIANCE)

LEGEND

SOLAR PANEL RACK

WL— WETLANDS BOUNDARY LINE
 50'BL— 50 FT WETLANDS BUFFER LINE
 100'BL— 100 FT WETLANDS BUFFER LINE

GENERAL NOTES

- ALL FEATURES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PROPOSED FEATURES AS SHOWN IN FULL TONE EXISTING FEATURES ARE SHOWN IN HALF TONE EXISTING FEATURES TO BE REMOVED ARE SHOWN AS DASHED, OR ARE NOTED.
- LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE AND SHOULD BE VERIFIED BEFORE EXCAVATION OR CONSTRUCTION BEGINS. CALL DIG SAFE SYSTEM, INC.: 811 OR 1-888-344-7233.
- 4. UNLESS OTHERWISE NOTED, MAINTAIN EXISTING YARD GRADES AND SLOPES.
- 5. ALL UTILITY CONNECTIONS ARE TO BE IN ACCORDANCE WITH LOCAL CODE.
- 6. THE SITE PLAN(S) SUPERSEDES ALL STANDARD DRAWINGS.
- 7. ALL WETLANDS DELINEATED BY ECOTEC INC., SEPTEMBER 2019.
- 8. THE FENCING WILL INCORPORATE A DESIGN OF THE EPC'S CHOOSING THAT WILL FACILITATE WILDLIFE MOVEMENT ACROSS THE PROPERTY.
 9. ALL GATES TO BE INSTALLED WITH KNOX BOX AND SIGNAGE WITH EMERGENCY CONTACT INFORMATION SUBJECT TO NATIONAL GRID FINAL DESIGN AND CONSTRUCTION. KNOX BOX KEY TO BE GIVEN TO LOCAL FIRE DEPARTMENT.
- 10. NO PESTICIDES OR HERBISIDES ARE TO BE USED DURING CONSTRUCTION OR MAINTENANCE.

PRELIMINARY SOLAR PANEL OUTPUT

ARRAY	TOTAL			
TOTAL NUMBER OF RACKS	98			
PANELS PER RACK	54			
TOTAL NUMBER OF PANELS	94 x 54 = 5,076			
OUTPUT PER PANEL	400W			
TOTAL OUTPUT	400W x 5,076 = 2,030,400 W			
	(2.03 MW)			

PANEL COUNT AND ARRANGEMENT SUBJECT TO CHANGE BASED ON AVAILABILITY AND MANUFACTURER

TOWN OF HADDWOOK DI ANNUAL TO LE	
TOWN OF HARDWICK PLANNING BOARD	TOWN OF WARE PLANNING BOARD
ATE:	DATE:

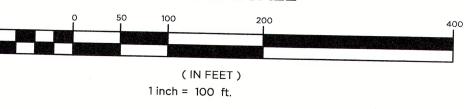
FLOOD HAZARD NOTES

THIS SITE IS LOCATED WITHIN ZONE "C" AS PER THE FOLLOWING FLOOD INSURANCE RATE MAPS:

TOWN OF HARDWICK:
COMMUNITY PANEL NO. 250307 0015 B, EFFECTIVE DATE SEPTEMBER 16, 1981.

TOWN OF WARE:
COMMUNITY PANEL NO. 250172 0013 B, EFFECTIVE DATE AUGUST 17, 1981.





BERTIN ENGINEERING

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

CT LIC. NO. 12950 CANSTUC. NO. 28845

MA LIC. NO. 40595 NATUC. NO. 60022

NH LIC. NO. 9368 RIVEC. NO. 6694

BRUCE A. FITZBACK, P.L.S.

PROFESSIONAL LAND SURVEYOR

MA LIC. NO. 37731

CT LIC. NO. 16970

22–21 REVISED PRIVATE ROADWAY ALIGNMINENT & WIDTH, ADDITION OF ROADWAY GATE,
GRASS PATHWAY, ROADWAY NAME AND ZONING DIMENSION SCHEDULE UPDATE.
31–20 REVISED SOLAR PANEL LAYOUT, FENCELINE, LOT LINES AND ROADWAYS.
E.Q.
11–20 REVISED DRAWING TITLE; ADD PRIVATE ROAD & SUBDIVISION LINES; ADD ZONING DIMENSION J.A.S.
-7–19 REVISED SOLAR PANEL LAYOUT, FENCELINE, AND ELECTRICAL COMPOSITION 1.0CATION V.A.S.

OVERALL
SITE &
SUBDIVISION
PLAN

LARGE SCALE SOLAR ARRAY

278 OSBORNE ROAD
PARCEL NUMBER 40-14-9
TOWN OF WARE, HAMPSHIRE COUNTY
NK 51160-177, LOT 14
TOWN OF HARDWICK, WORCESTER COUNTY
MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

24GA28068900 / 21MH00002800

DRAWN BY
E.Q.

SCALE

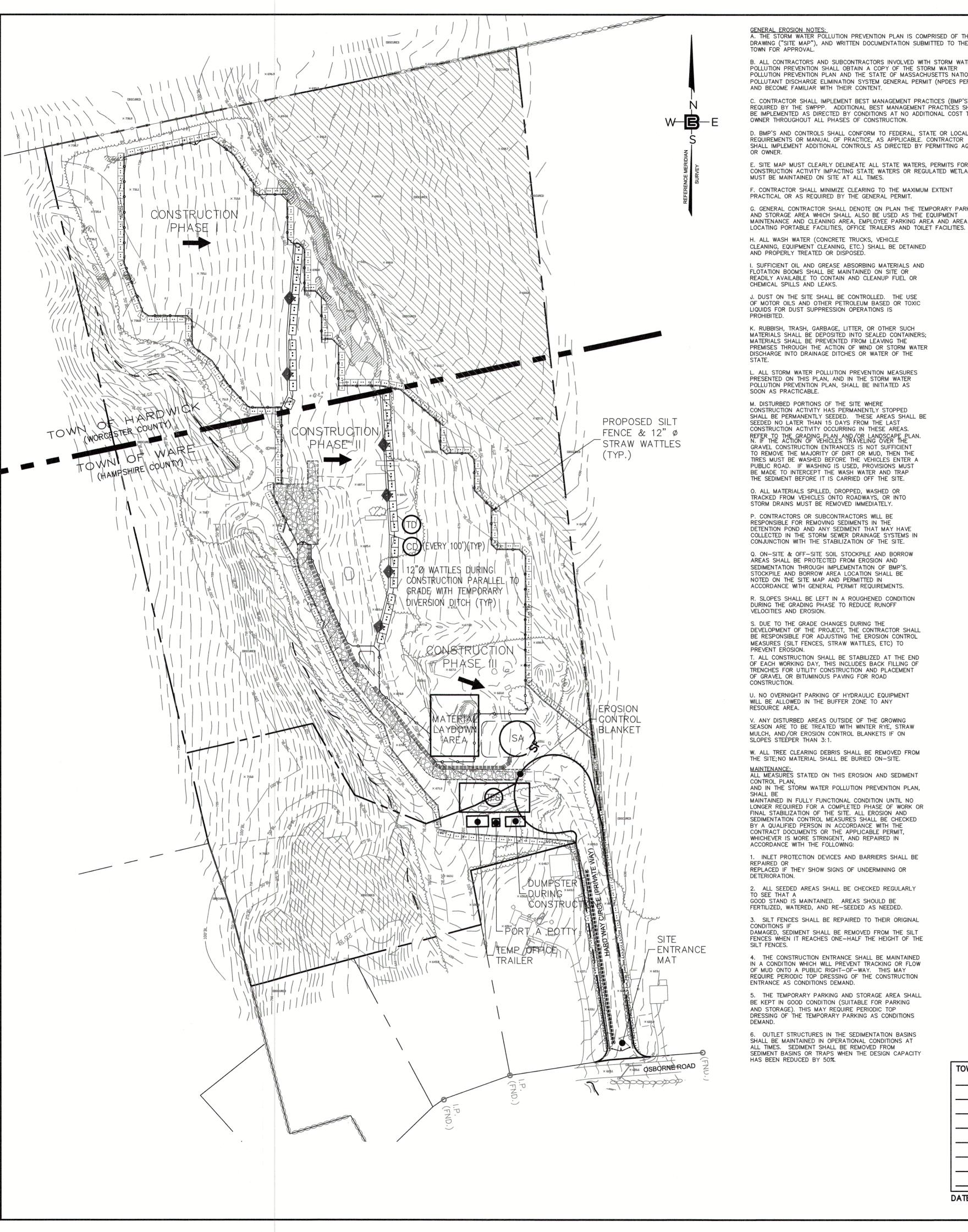
1" = 100'

DATE

10-21-19

DRAWING NO.

C1.3



GENERAL EROSION NOTES:

A. THE STORM WATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING ("SITE MAP"), AND WRITTEN DOCUMENTATION SUBMITTED TO THE

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF MASSACHUSETTS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENT.

C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY

E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS

MUST BE MAINTAINED ON SITE AT ALL TIMES.

G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA AND AREA FOR

H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED

I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR

J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS

K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS; MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATER OF THE

L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS

M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 15 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
N. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

O. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS, OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

P. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENTS IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

Q. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S. STOCKPILE AND BORROW AREA LOCATION SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

R. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

S. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW WATTLES, ETC) TO T. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF

OF GRAVEL OR BITUMINOUS PAVING FOR ROAD U. NO OVERNIGHT PARKING OF HYDRAULIC EQUIPMENT

WILL BE ALLOWED IN THE BUFFER ZONE TO ANY

V. ANY DISTURBED AREAS OUTSIDE OF THE GROWING SEASON ARE TO BE TREATED WITH WINTER RYE, STRAW MULCH, AND/OR EROSION CONTROL BLANKETS IF ON SLOPES STEÉPER THAN 3:1.

W. ALL TREE CLEARING DEBRIS SHALL BE REMOVED FROM THE SITE; NO MATERIAL SHALL BE BURIED ON-SITE.

MAINTENANCE: ALL MEASURES STATED ON THIS EROSION AND SEDIMENT AND IN THE STORM WATER POLLUTION PREVENTION PLAN, MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL DAMAGED, SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE

4. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO A PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY

<u>SEQUENCE OF CONSTRUCTION</u>
THE FOLLOWING NARRATIVE DESCRIBES THE PLANNED CONSTRUCTION SEQUENCE WITH AN EMPHASIS ON THE TIMING AND SEQUENCE OF EROSION/SEDIMENTATION CONTROL MEASURES:

THE FOLLOWING CONSTRUCTION SEQUENCE WILL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION/SEDIMENT CONTROL MEASURES IS OPTIMIZED.

INSTALL STABILIZED CONSTRUCTION EXIT(S) AND SWPPP ENTRANCE SIGN. INSTALL EROSION CONTROL BARRIERS ON THE ENTIRE SITE (CLEAR ONLY THOSE AREAS

NECESSARY TO INSTALL SILT FENCE AND WATTLES.) INSPECTIONS WILL BE CONDUCTED AFTER INSTALLATION OF EROSION CONTROL BARRIERS ARE PREPARE TEMPORARY PARKING AND STORAGE AREA UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA POTTY, MATERIAL STORAGE CONTAINERS, , DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. 5. CLEAR AND GRUB AREA FOR SEDIMENT BASINS. CONSTRUCT AND STABILIZE SEDIMENT BASINS. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION

AND CERTIFICATION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION. BEGIN CLEARING THE SITE.

INSTALL TEMPORARY DIVERSION DITCHES AND CHECK DAMS. BEGIN GRADING THE SITE AS NEEDED.

START INSTALLATION OF DRAINAGE AND SITE WORK. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 15 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE

PERMANENTLY STABILIZE ANY REMAINING EXPOSED AREAS

TEMPORARY DRAINAGE DITCHES TO BE REMOVED AND STABILIZED.
SEDIMENT FROM BASINS TO BE REMOVED AND DISPOSED OF OFFSITE AND BASINS ARE TO BE CONVERTED TO FINAL DETENTION BASINS AS SHOWN ON SITE PLAN.
4. ONCE ENTIRE SITE IS STABILIZED, CALL FOR FINAL INSPECTION FROM SITE MONITOR. ONCE FINAL INSPECTION IS COMPLETE AND APPROVED, ALL EROSION CONTROL SILT FENCE AND WATTLES ARE TO BE REMOVED.

ONCE CONSTRUCTION IS COMPLETED, ALL DISTURBED AREAS ARE TO BE STABILIZED WITH LOAM AND SEED UNLESS OTHERWISE SPECIFIED.
2. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION. 3. EXTRA EROSION CONTROL MATERIALS (STRAW WATTLES, SILT FENCE) EQUAL TO 200 LF SHALL BE KEPT ON SITE FOR EMERGENCY REPAIRS. THESE MATERIALS SHALL BE KEPT COVERED.

SEDIMENTATION BASINS

CONTRACTOR TO LOCATE TEMPORARY SEDIMENTATION BASINS TO PREVENT SEDIMENT FROM LEAVING THE LIMIT OF WORK. TEMPORARY SEDIMENTATION BASINS ARE TO BE INSTALLED IN LOCATIONS UPSTREAM OF ANY EROSION CONTROL BARRIERS WHERE EXCESS SEDIMENT IS OBSERVED DURING THE CONSTRUCTION PROCESS. REMOVE AND PROPERLY DISPOSE OF SEDIMENT WHEN IT ACCUMULATES TO ONE-HALF DESIGN VOLUME. REMOVE BASIN AFTER DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, INSPECTED, AND APPROVED. BEFORE REMOVING DAM, DRAIN WATER AND REMOVE SEDIMENT; PLACE WASTE MATERIAL IN DESIGNATED DISPOSAL AREAS. SMOOTH SITE TO BLEND WITH SURROUNDING AREA AND STABILIZE. TEMPORARY SEDIMENTATION BASINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.

DESIGN RECOMMENDATIONS: DRAINAGE AREA NOT MORE THAN 100 ACRES. THE SEDIMENT BASIN SHOULD HAVE A MINIMUM VOLUME BASED ON LINCH OF STORAGE FOR EACH ACRE OF DRAINAGE AREA. THIS VOLUME EQUATES TO 1800 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA. LENGTH-TO-WIDTH RATIO SHOULD BE 2:1 OR GREATER; DIVERT INFLOW TO UPPER END OF BASIN TO AVOID SHORT-CIRCUITING FLOW. LENGTH IS DEFINED AS THE AVERAGE DISTANCE FROM THE INLET TO THE OUTLET OF THE TRAP. BAFFLES TO SPREAD THE FLOW THROUGHOUT THE BASIN SHOULD BE INCLUDED. KEEP SEDIMENT POOL DEWATERED BETWEEN STORMS. CONSTRUCT SIDE SLOPES 2:1 OR FLATTER IN POOL AREA. PLACE 6" BARREL AND RISER ON FIRM, EVEN FOUNDATION. INSTALL ANTI-SEEP COLLAR SLIGHTLY AROUND PIPE. COVER PIPE TO A DEPTH OF 2 FEET MINIMUM OF HAND-COMPACTED BACKFILL BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. INSTALL TRASH GUARD WITH BARS SPACED 2-3 INCHES APART. INSTALL RIPRAP APRON AT PIPE OUTLET, WIDTH 5 FT MINIMUM. EXTEND APRON TO STABLE GRADE (LENGTH 10 FT MINIMUM). USE

WELL-GRADED STONE WITH 'D50" OF 9 INCHES MINIMUM.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE JAN FEB MARAPRIMAYJUN JUL AUGISEP OCT NOVIDEC JAN FEB MARAPRIMAYJUN CONSTRUCTION SEQUENCE ROUGH GRADE / SEDIMENT CONTROL TEMPORARY CONTROL MEASURES STRIP & STOCKPILE TOPSOIL STORM FACILITIES TEMPORARY CONSTRUCTION ROADS FOUNDATION / BUILDING CONSTRUCTION SITE CONSTRUCTION PERMANENT CONTROL STRUCTURES FINISH GRADING LANDSCAPING/SEED/FINAL STABILIZATION

NOTE: PRIOR TO ANY WORK TAKING PLACE

1. A PRE-CONSTRUCTION MEETING SHOULD BE SCHEDULED BETWEEN BERTIN ENGINEERING AND CONSTRUCTION MANAGER. ALL ASPECTS OF EROSION CONTROLS AND CONSTRUCTION OF PROJECT ARE TO BE DISCUSSED 2. WATTLES AND SILTATION FENCE TO BE INSTALLED. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SITE TRACKING PAD) 3. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION.

ACREAGE SUMMARY IN ACRES SEEDED AREA 8.06 AC± TOTAL DISTURBED 10.69 AC±

(SA) SOIL MATERIAL STOCKPILE AREA CD STONE CHECK DAM (PS) PERMANENT SEEDING/STABILIZATION (TPS) TEMPORARY PARKING AND STORAGE TEMPORARY DIVERSION DITCH DD) TEMPORARY DIVERSION DIKE (ST) TEMPORARY SEDIMENT TRAP ----- FENCE ----- SILT FENCE _____ SILT FENCE AND STRAW WATTLES ----- STRAW WATTLES ______ DIRECTION OF OVERLAND FLOW W/GRADE TEMPORARY STONE CONSTRUCTION EXIT INLET PROTECTION DRAINAGE FLOW DIRECTION EROSION CONTROL BLANKET

LEGEND

	RD
	prosperior and the second second
DATE: DATE:	

		SRAPH	IIC SC	ALE			
)	50	100		200			400
		(IN	(FEET)	Olive development and a service of the control of t	anguarisminina-yiklarikuraar	educarium sedelar eller diraca di arc	

1 inch = 100 ft.

CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER LIC. NO. 12950 ISTONULIC NO. 2884 MA LIC. NO. 40595 RT NY LIC. NO. 60022 NH LIC. NO. 9368 VI RI LIC NO. 6694

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

-			
AYOUT	AYOUT	AYOUT	
SITE L	SITE L	SITE L	
EVISED	EVISED	EVISED	
PER R	PER R	PER R	
PLAN	PLAN	PLAN	
2-22-21 UPDATE PLAN PER REVISED SITE LAYOUT	7-31-20 UPDATE PLAN PER REVISED SITE LAYOUT	11-7-19 UPDATE PLAN PER REVISED SITE LAYOUT	
22-21	31-20	-7-19	
2-:	7-:	+	L
3	2	-	
100		44.33	

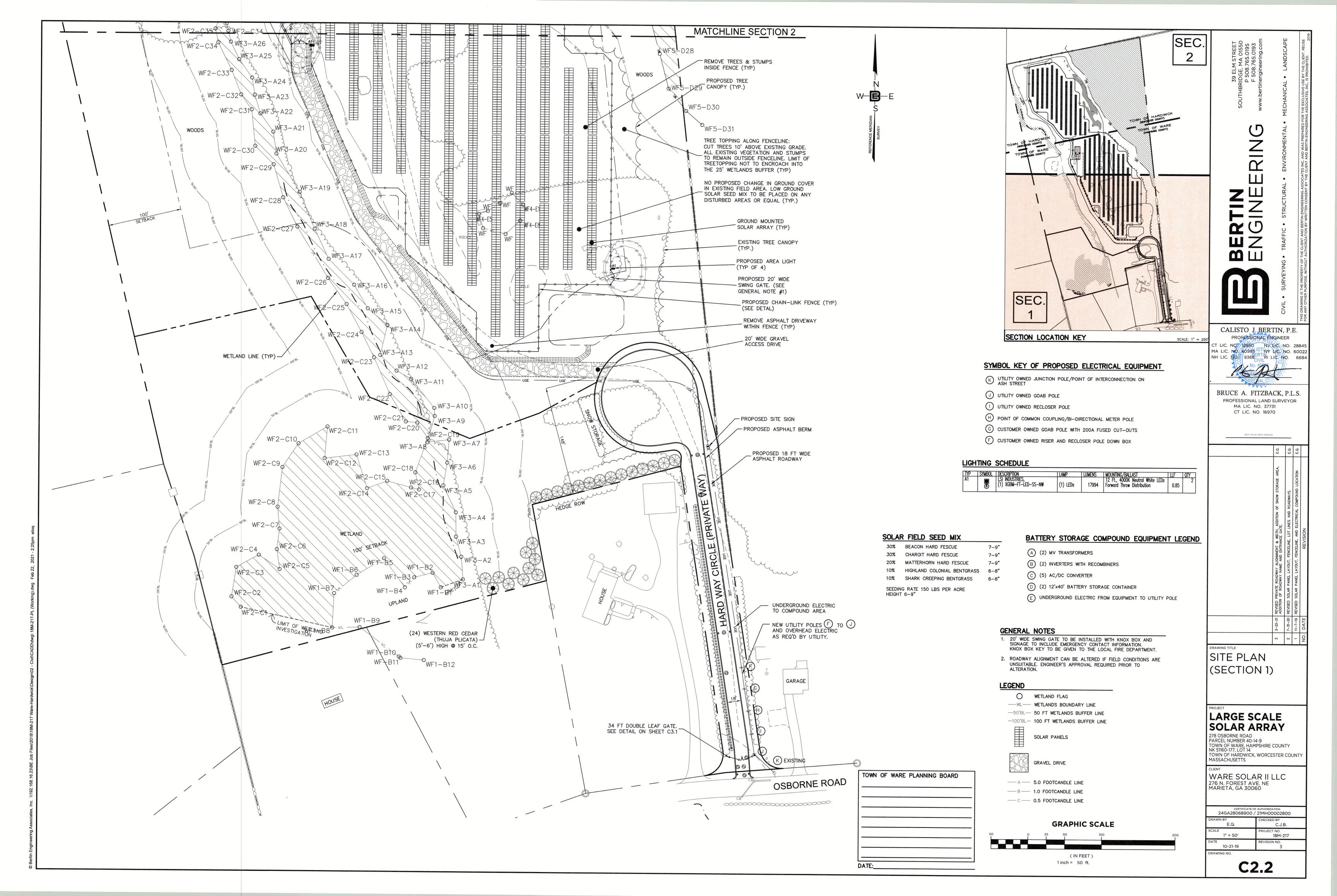
DRAWING TITLE SOIL EROSION **|& SEDIMENT** CONTROL PLAN

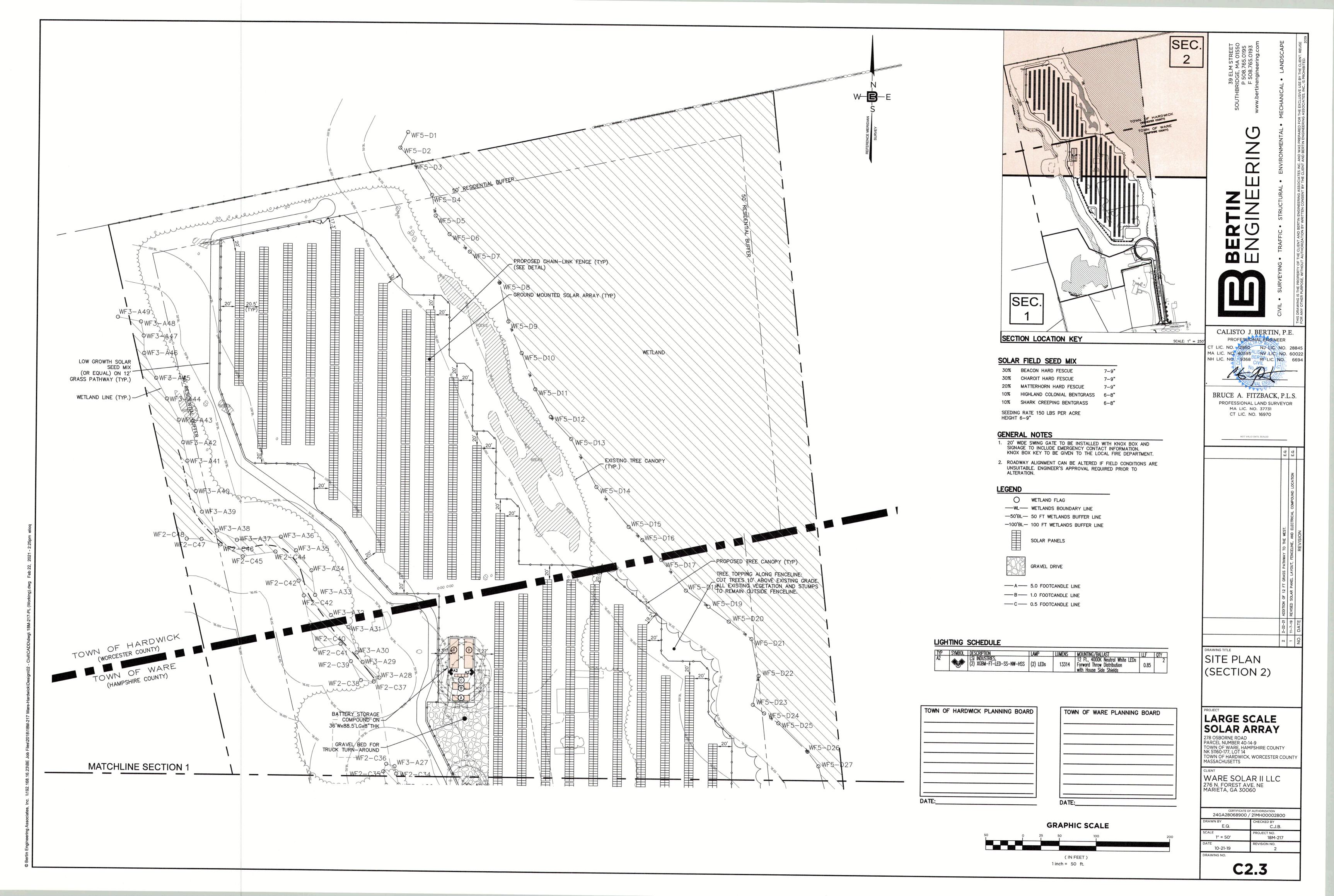
LARGE SCALE **SOLAR ARRAY**

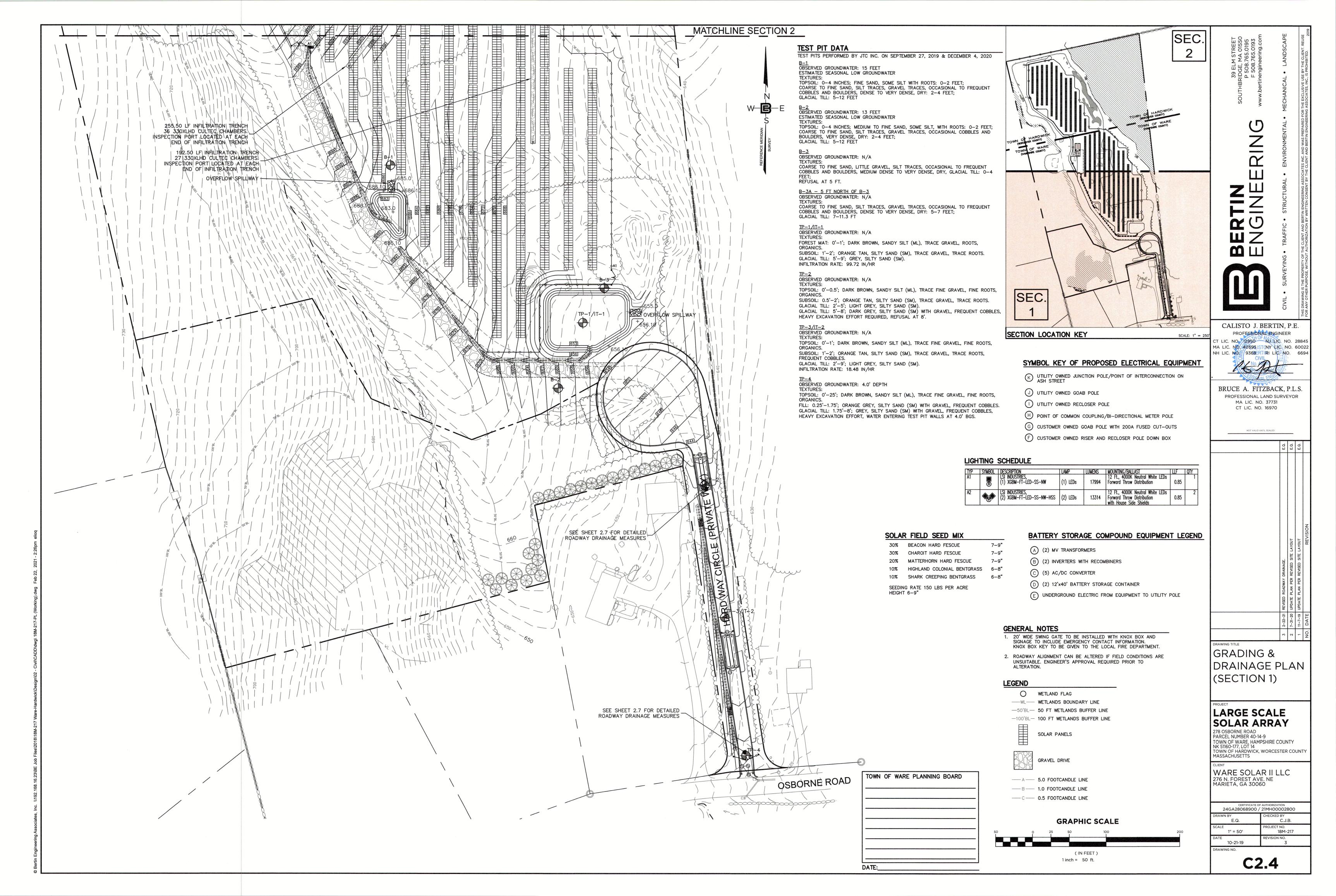
278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

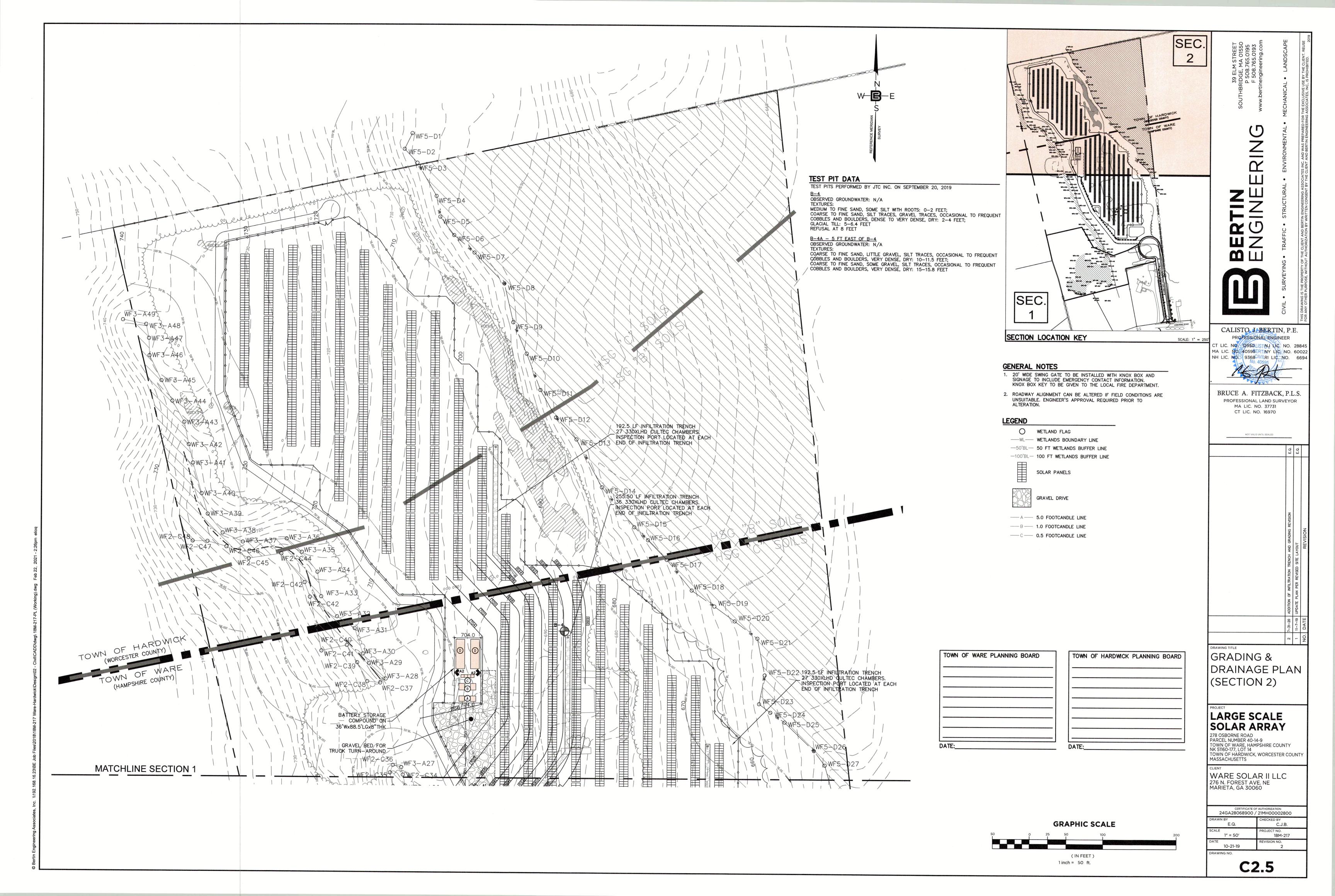
WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

24GA28068900 / 21MH00002800 E.Q. C.J.B. 1" = 100' 18M-217 10-21-19

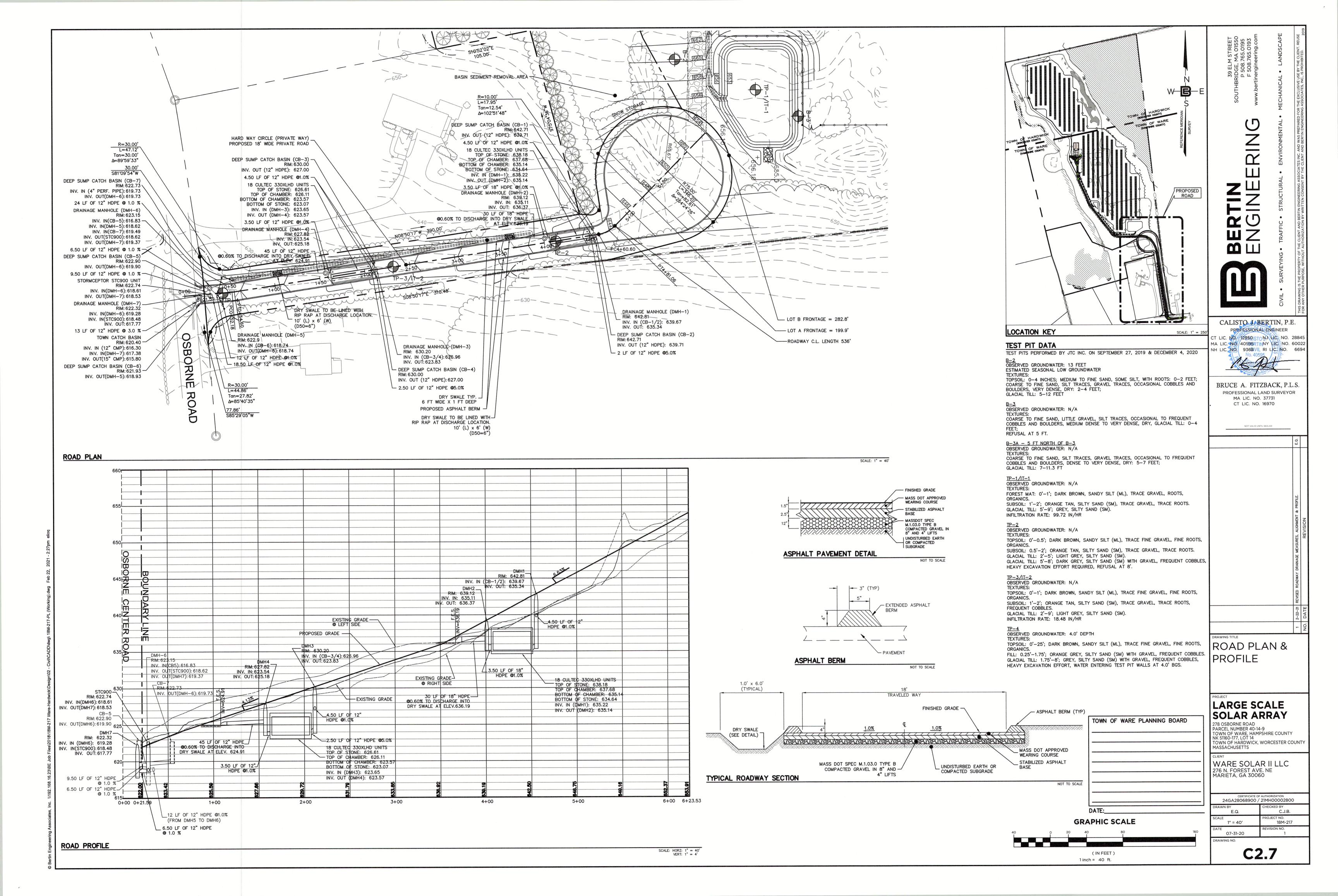


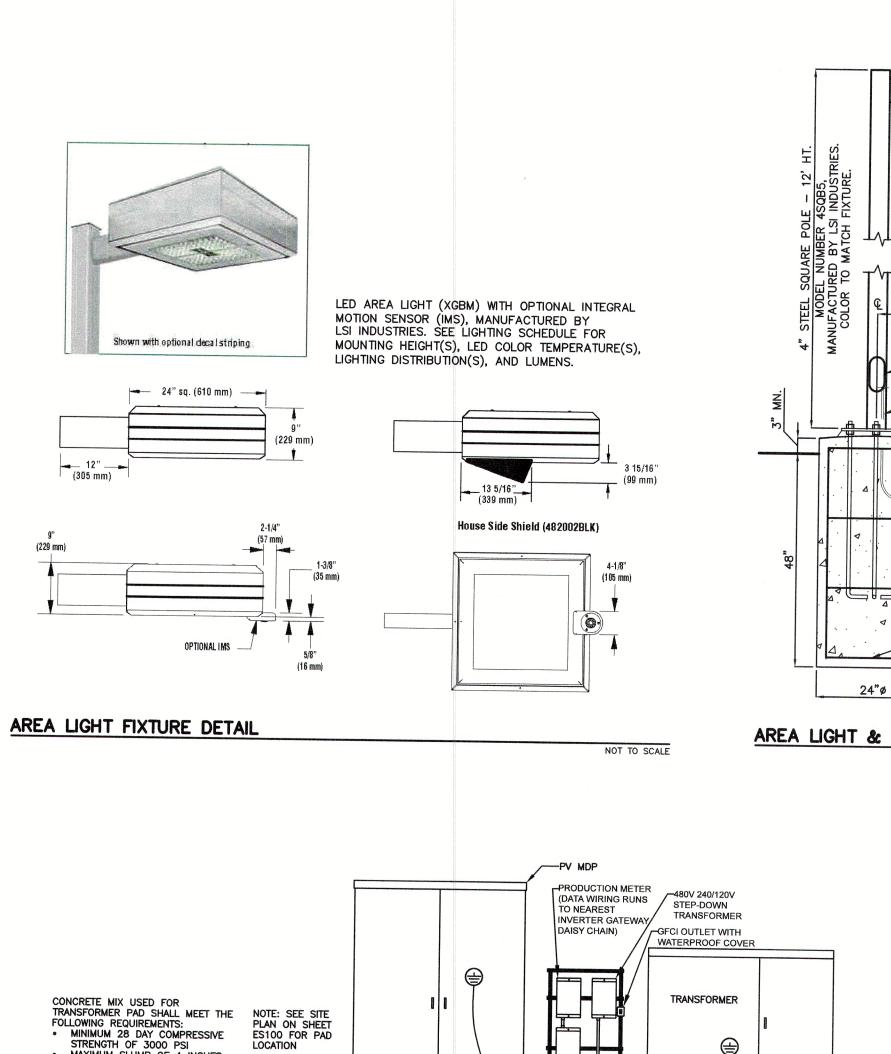


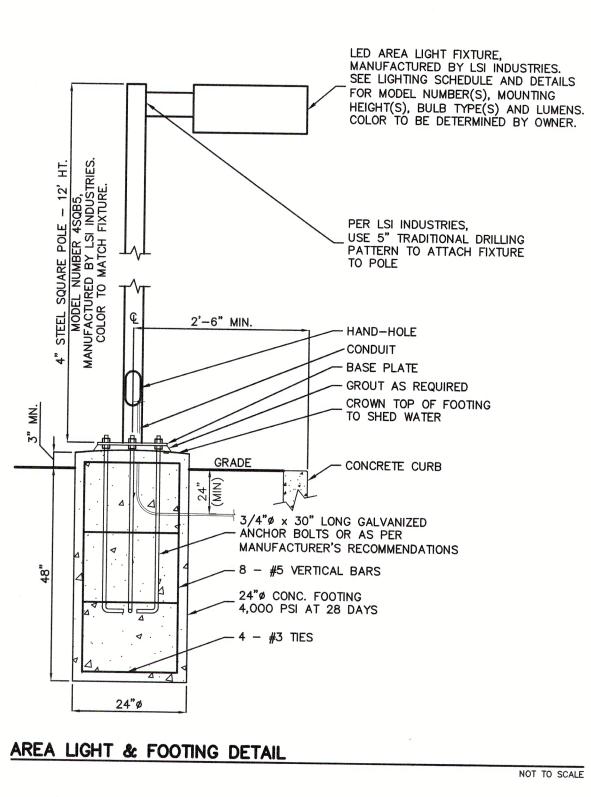


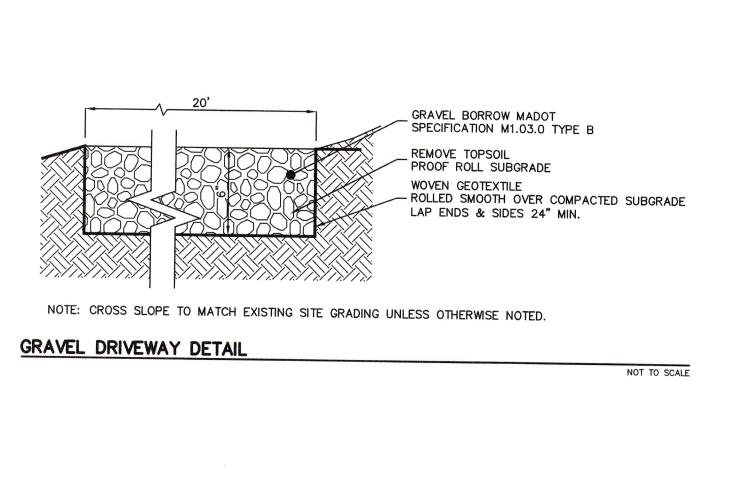


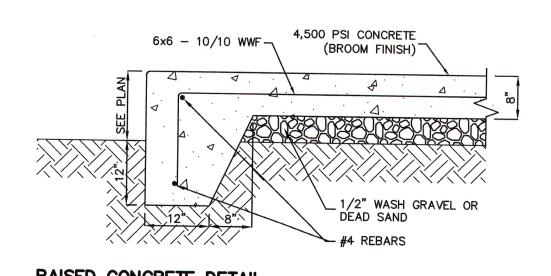




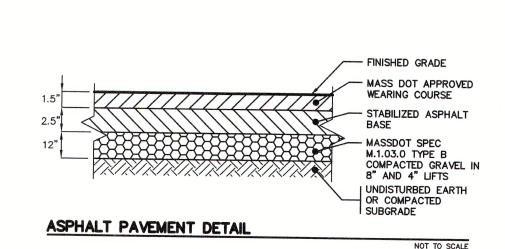


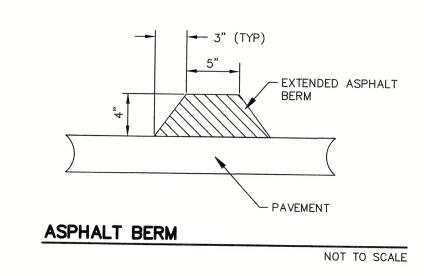


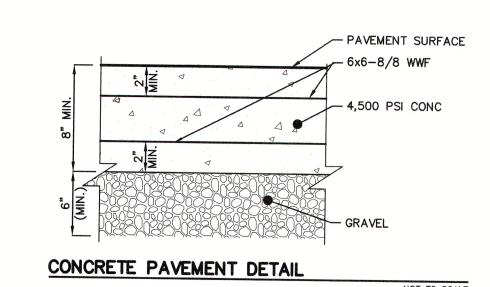


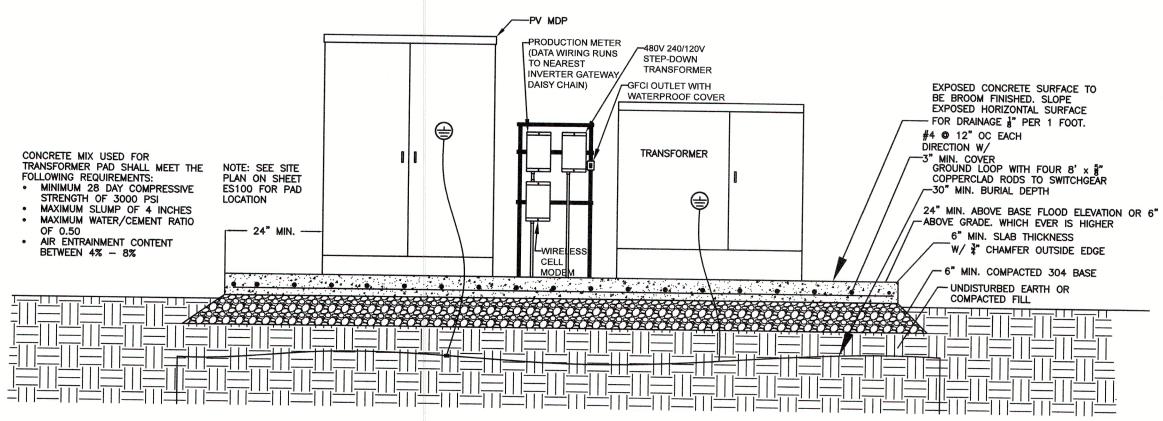


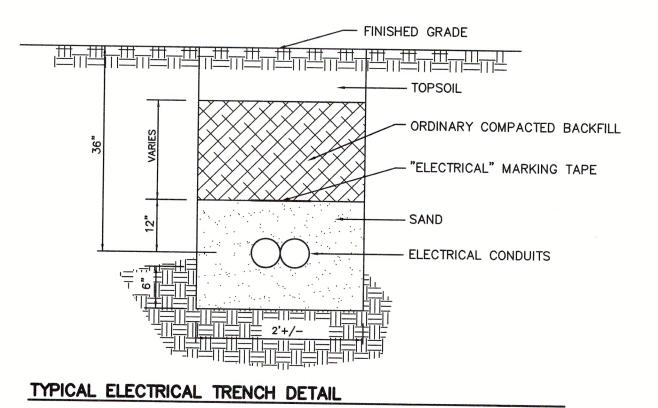




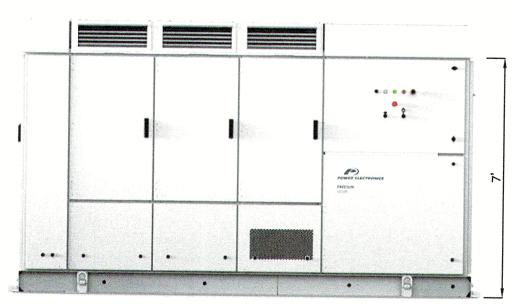




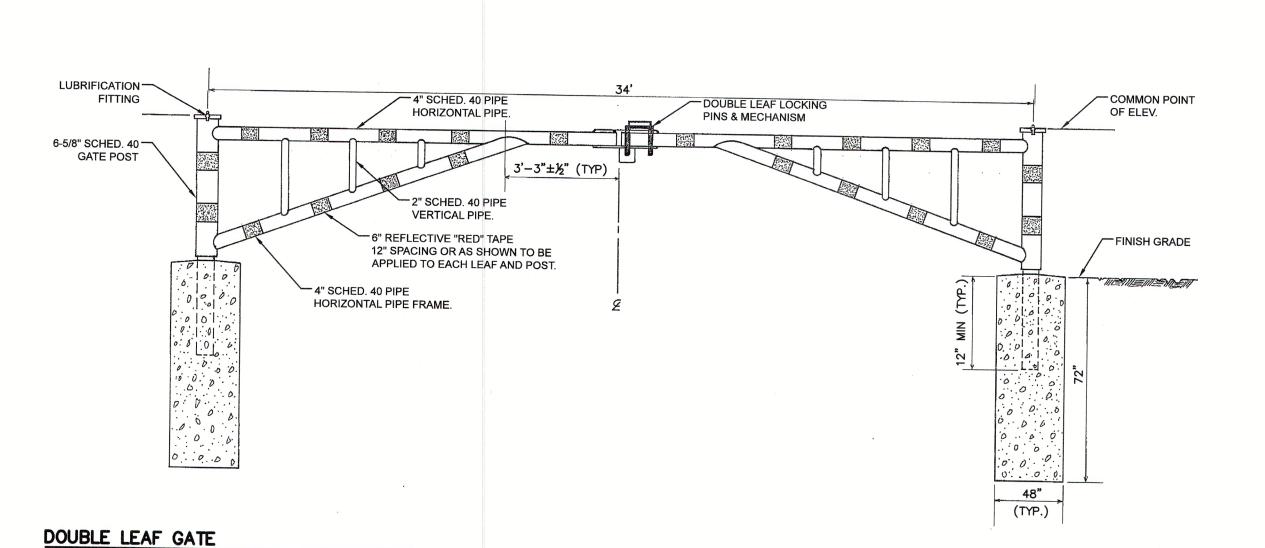


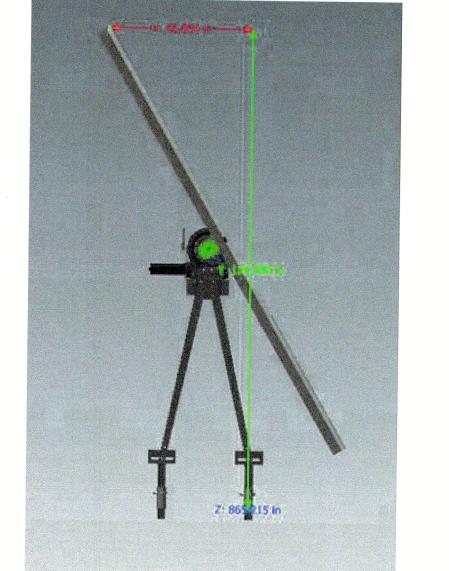




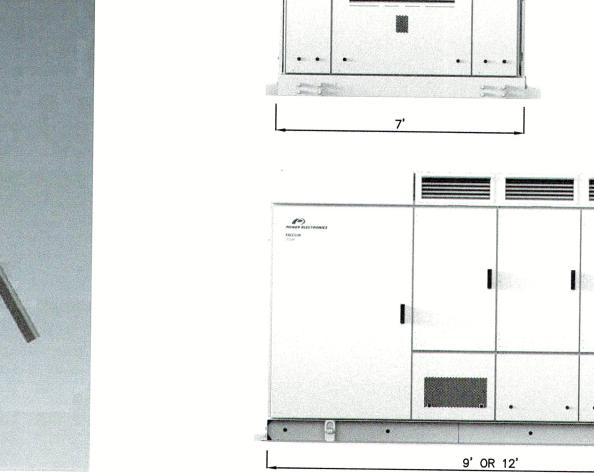


MAIN DISTRIBUTION PANEL AND TRANSFORMER PAD MOUNT DETAIL

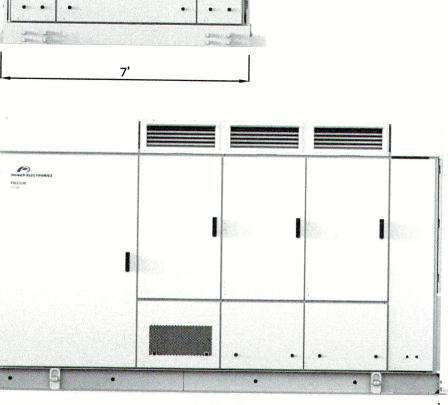




SOLAR PANEL & RACK SYSTEM



STRING INVERTER



LARGE SCALE **SOLAR ARRAY**

SITE DETAILS

CALISTO, J. BERTIN, P.E.

BRUCE A. FITZBACK, P.L.S.

PROFESSIONAL LAND SURVEYOR

MA LIC. NO. 37731

CT LIC. NO. 16970

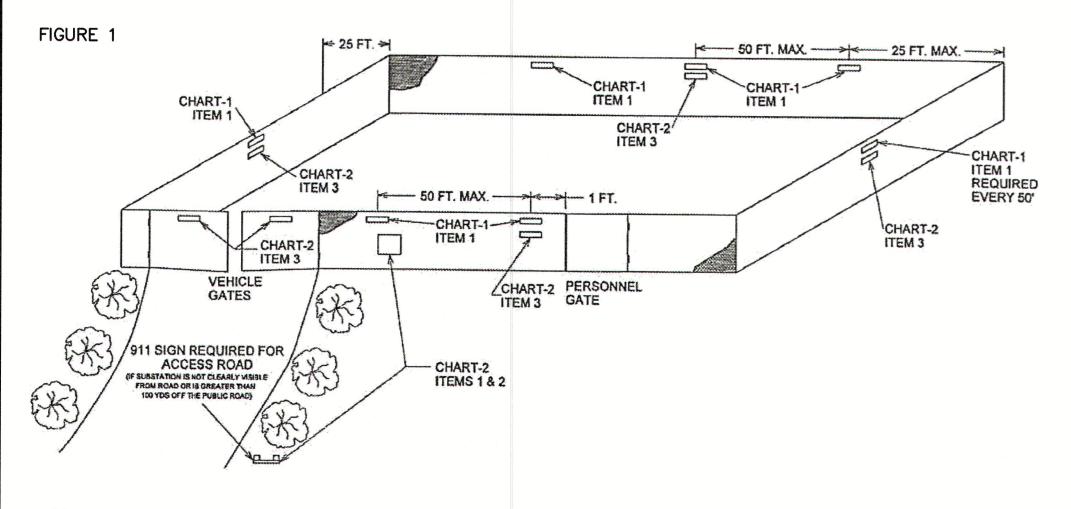
PROFESSIONAL ENGINEER CT LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO 40595 RTINY LIC NO. 60022 NH LIC. NO. 9368 N RI LIC NO. 6694

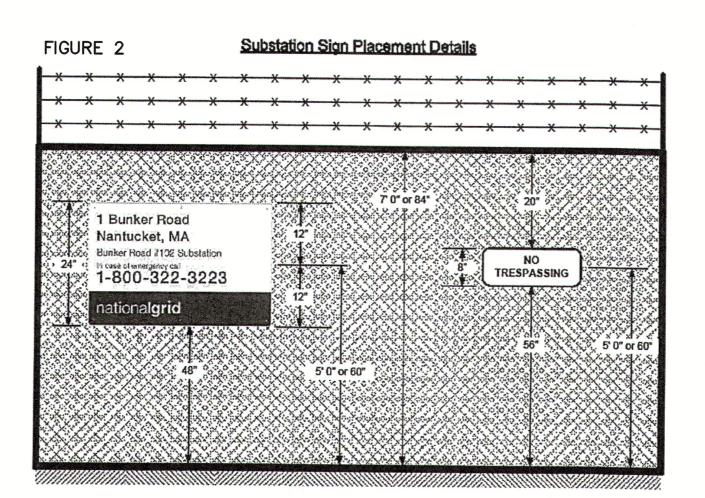
278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

100	24GA28068900 / 21MH00002800			
	DRAWN BY J.A.S.	CHECKED BY C.J.B.		
TO STATE OF THE PARTY OF THE PA	SCALE AS SHOWN	PROJECT NO. 18M-217		
SAN CONTRACTOR	DATE 10-21-19	REVISION NO. 2		
ſ	DRAWING NO.			

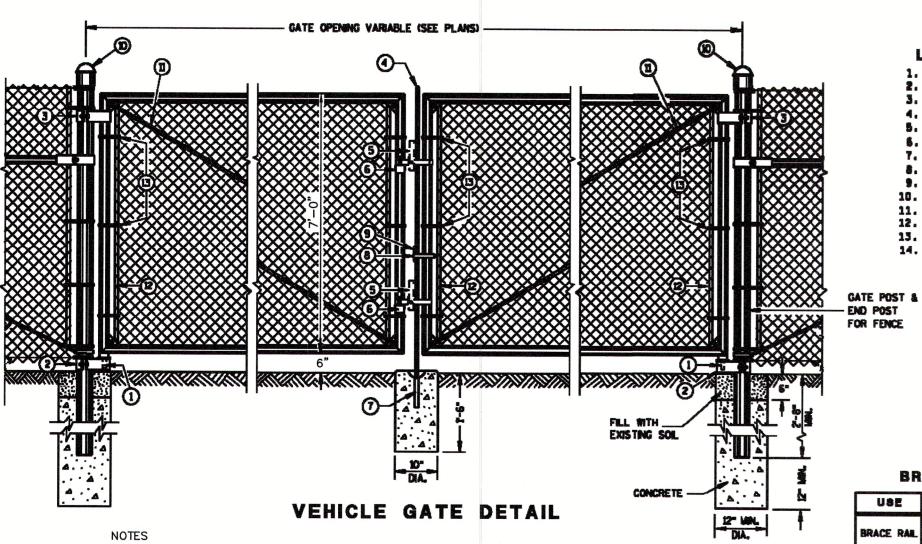
C3.1





- 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



1. FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT

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

1. STRAIGHT PLUG 2. BOTTOM HINGE 3. TOP HINGE 4. PLUNGER ROD 5. FULCRUM LATCH S. FORK CATCH . PLUNGER ROD CATCH 8. LOCK KEEPER GUIDE

9. LOCK KEEPER 10. DOME TOPS 11. TRUSS RODS 12. TENSION BAR 13. TENSION BANDS 14. BRACE RAIL

BRACE RAIL TYPES TYPE

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

REQUIRED FENCE POST SIZES

EQUAL TO 8 FT.

(1.8 OZ./SQ. FT. COATING) POST WALL FABRIC HEIGHTS WEIGHT TYPE DIMENSION THICKNESS POST TYPE FEET LBS/FT INCH INCH LESS THAN OR SP1 1.660 0.140 2.270 EQUAL TO 6 FT. GREATER THAN OR 0.145 2.720 EQUAL TO 6 FT. SP3 2.375 0.154 3.650 LESS THAN OR EQUAL TO 6 FT. 2.875 0.203 5.800 LESS THAN OR EQUAL TO 8 FT. SP5 4.000 0.226 9.120 GREATER THAN OR EQUAL TO 8 FT. SP6 6.625 0.280 18.990 LESS THAN OR FS2 OR EQUAL TO 8 FT. FS2+ SP7 8.625 0.322 28.580 GREATER THAN OR FS3

ROUND STEEL FENCE POST

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LB8/FT
FS1	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

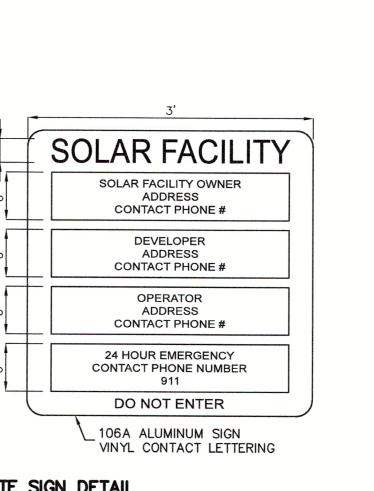
REQUIRED POST SIZE FOR GATES

U8E	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

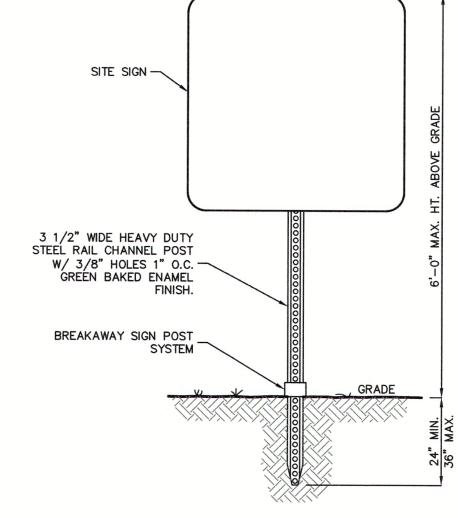
WIDTH OR 2 INCHES.

NOT TO SCALE



NOT TO SCALE

SITE SIGN DETAIL



SITE SIGN INSTALLATION DETAIL

BRACE RAIL 1-1/4" PIPE ---2" MESH: 9 GAUGE GALVANIZED FABRIC TIES @ 9 GAUGE WIRE L WOVEN WIRE FABRIC LINE POST CAP 12" APART (MAX.) END POST CAP 1" x 1/8" BRACE AND STRETCHER I FABRIC TIE @ 9 GAUGE BAR BANDS WITH 5/16" CARRIAGE BOLTS WITH ELASTIC STOP NUTS 10" APART (MAX.) 2 3/8"ø (MIN.) GALVANIZED TERMINAL OR CORNER POSTS: | FENCE POST 2 7/8"ø (MIN.) GALVANIZED – FENCE POST 1/4" x 3/4" STRETCHER BAR — JHOG RING FASTENERS 12" STRETCHER BAR BANDS | APART (MAX.) 11 GAUGE 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 - CLASS D CONC. AND THE BOTTOM OF THE 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.
- 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

NOT TO SCALE

CALISTO J. BERTIN, P.E. PROFESSIONALENGINEER CT LIC. NO. 12950 ST NJ LIC. NO. 28845 MA LIC. NO. 40595 RTINY LIC. NO. 60022 NH LIC. NO. 9368 VIL RI LIC. NO. 6694

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

SITE DETAILS

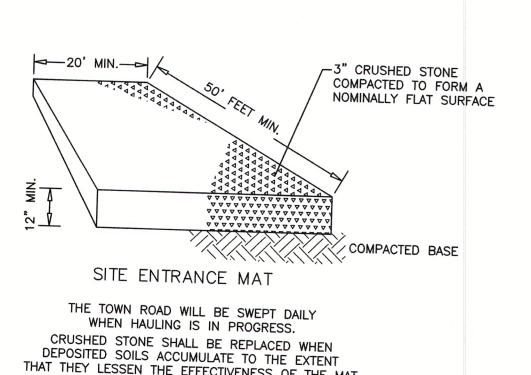
LARGE SCALE **SOLAR ARRAY**

278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

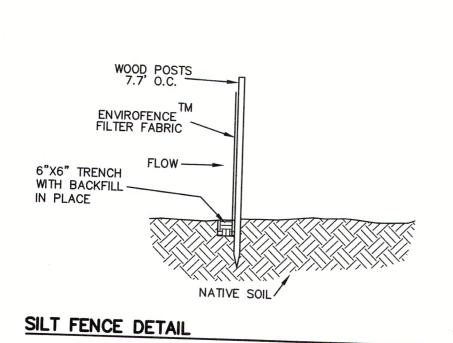
CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 J.A.S. C.J.B. AS SHOWN 18M-217 10-21-19

C3.2

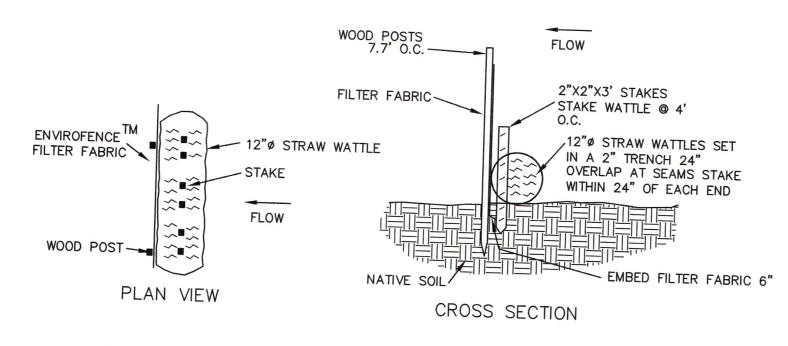


THAT THEY LESSEN THE EFFECTIVENESS OF THE MAT

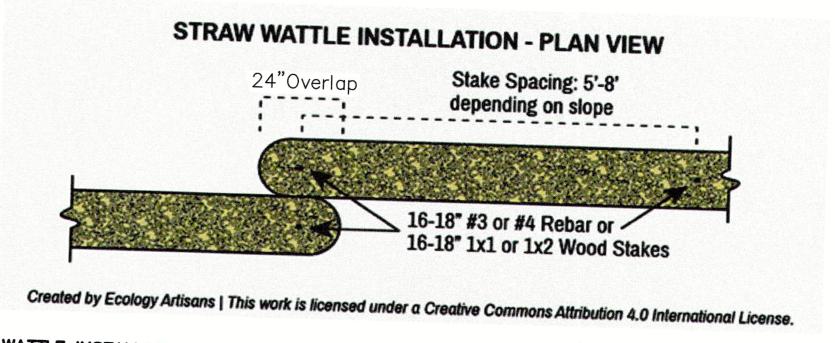
TRACKING PAD DETAIL

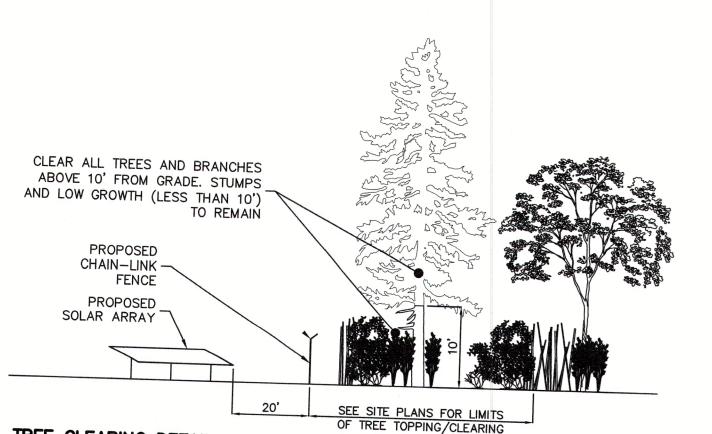


NOT TO SCALE







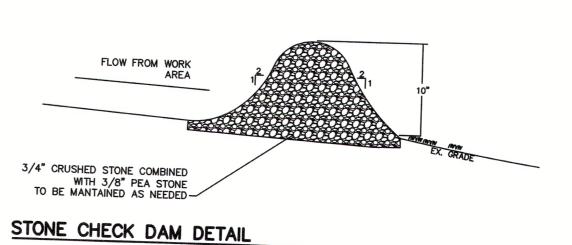


6'-0" 30" PERMEABLE SOIL

1. STONE CHECK DAMS TO BE INSTALLED EVERY 50' 2. SWALE TO BE MAINTAINED PER MAINTENANCE SCHEDULE. DRY SWALE

GEOTEXTILE LINING NA GREEN SEE DETAIL SAME PAGE: ROLLMAXTM 1. STONE CHECK DAMS TO BE INSTALLED EVERY 100' SYSTEMS MODEL SC250 OR APPROVED EQUAL

2. SWALE TO BE MAINTAINED PER MAINTENANCE SCHEDULE. **GRASS SWALE**



NOT TO SCALE

SOIL EROSION & SEDIMENT CONTROL AND LANDSCAPE DETAILS

39 ELM STREET IDGE, MA 01550 P 508.765.0195 F 508.765.0193

CALISTO, J., BERTIN, P.E.

PROFESSIONAL ENGINEER

PROFESSIONAL LAND SURVEYOR

MA LIC. NO. 37731

CT LIC. NO. 16970

LARGE SCALE SOLAR ARRAY

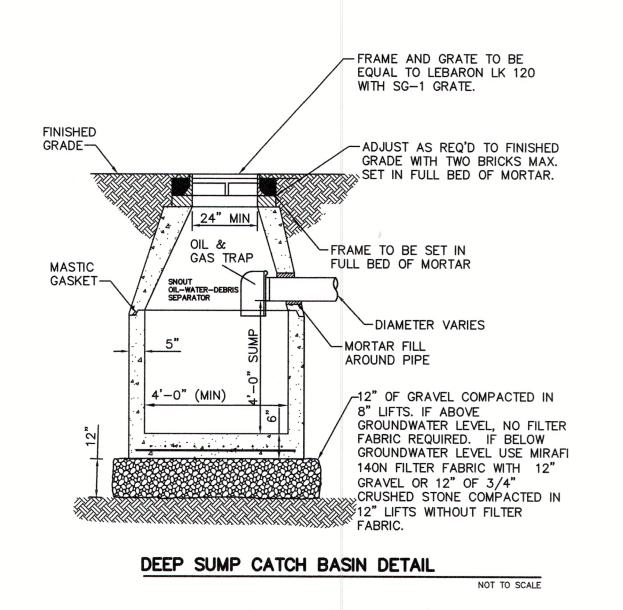
278 OSBORNE ROAD
PARCEL NUMBER 40-14-9
TOWN OF WARE, HAMPSHIRE COUNTY
NK 51160-177, LOT 14
TOWN OF HARDWICK, WORCESTER COUNTY
MASSACHUSETTS

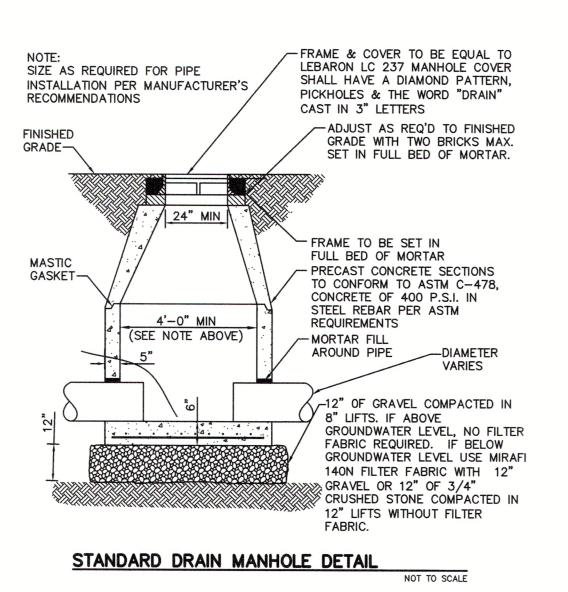
WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 C.J.B. AS SHOWN 18M-217 10-21-19

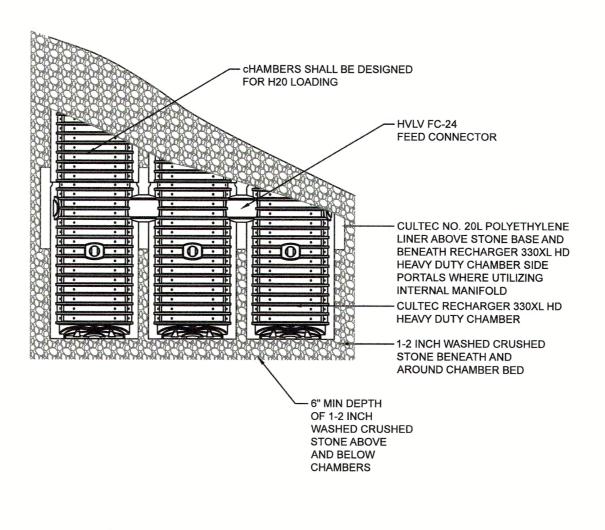
C3.3

NOT TO SCALE WATTLE INSTALLATION DETAIL NOT TO SCALE LEADER INTACT, DO NOT PRUNE - PRUNE ALL BROKEN AND DEAD BRANCHES ATTACH #10 GAUGE GALV. ANNEALED WIRE GUYS TO TRUNK, USE REINFORCED 3/4" BLACK RUBBER HOSE COVER WHERE WIRES ARE IN CONTACT WITH BRANCHES. WRE SHOULD BE IN CONTACT AT 45° ANGLE TO THE TREE. PROVIDE 4" OF MULCH AS SPECIFIED TO COVER WATERING SAUCER OF TREE PIT CT LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 60022 FORM 4" HIGH TOPSOIL SAUCER AT EDGE OF NH LIC. NO. 9368 RI LIC. NO. 6694 TREE PIT FOR WATERING. LOW GROWTH SEED MIX COMPRISED OF A
DIVERSITY OF NATIVE HERBACEOUS SPECIES ON
ALL DISTURBED AREAS, NEW ENGLAND EROSION 3 - 2"x2"x36"(MIN.) WOOD STAKES (SPACED 120° APART) REMOVE DEBRI AND OBJECTIONABLE WEED AND STONES FROM EXISTING (SET STAKES FLUSH TO AVOID TRIPPING HAZARD) CONTROL/ RESTORATION SEED MIX OR NEW - FINISHED GRADE TOPSOIL. WHERE EXISTING TOPSOIL
IS NOT SUFFICIENT, AREA SHALL
BE COVERED WITH TOPSOIL TO A ENGLAND CONSERVATION/ WILDLIFE MIX OR BRUCE A. FITZBACK, P.L.S. DEPTH OF 4" WHICH SHALL BE FRIABLE AND LOAMY AND CONTAIN NO TOXIC SUBSTANCE HARMFUL TO CUT AND REMOVE BINDING AND BURLAP FROM TRUNK PLANT GROWTH. AND UPPER 1/3 OF TREE ROOTBALL. PREPARED TOPSOIL (3:1 RATIO TOPSOIL TO PEAT MOSS). UNDISTURBED EARTH TREE CLEARING DETAIL PREPARED TOPSOIL CUSHION TOP SOIL & SEED DETAIL NOTE: WIRE BASKETS ARE TO BE REMOVED PRIOR TO BACKFILLING THE PLANTING PIT EVERGREEN TREE PLANTING DETAIL 4" UNDERDRAIN PERFORATED PIPE ROLLED EROSION CONTROL

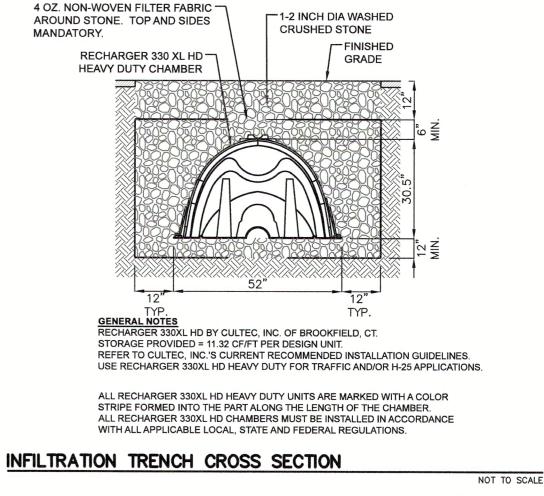


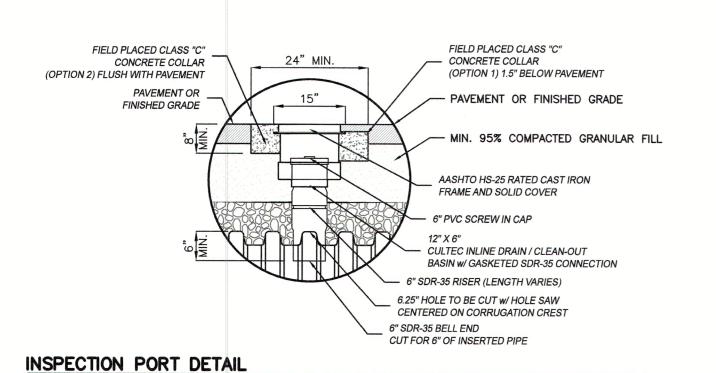


NOT TO SCALE

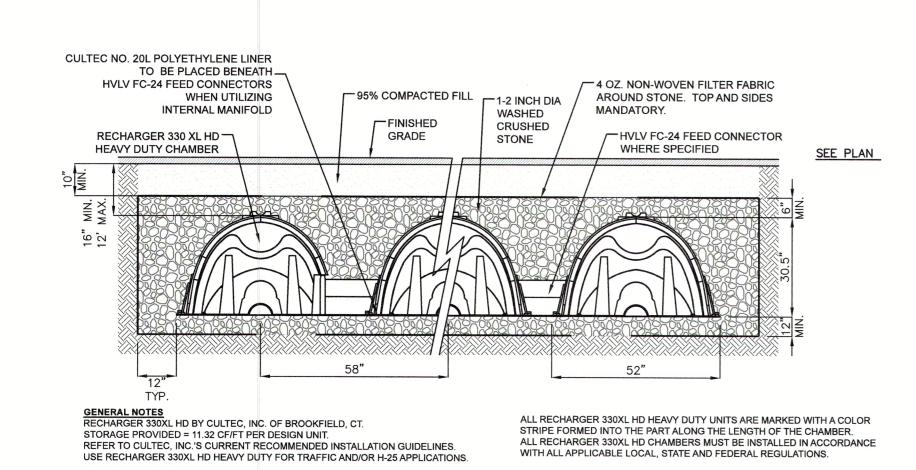


CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW



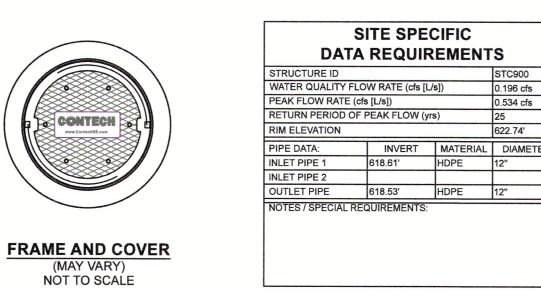


SAFETY GRATE OVER OUTLET RISER TOP SLAB ACCESS TO BE ORIENTED OVER OIL INSPECTION PIPE AND OUTLET RISER (SEE FRAME AND COVER DETAIL)



CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL CROSS SECTION

NOT TO SCALE



GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED

3. FOR SITE SPECIFIC DRAWINGS WITH CONTECHES COM

4. CONTECHES COM

4. CONTECHES COM

5. 3. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.

4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.

CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

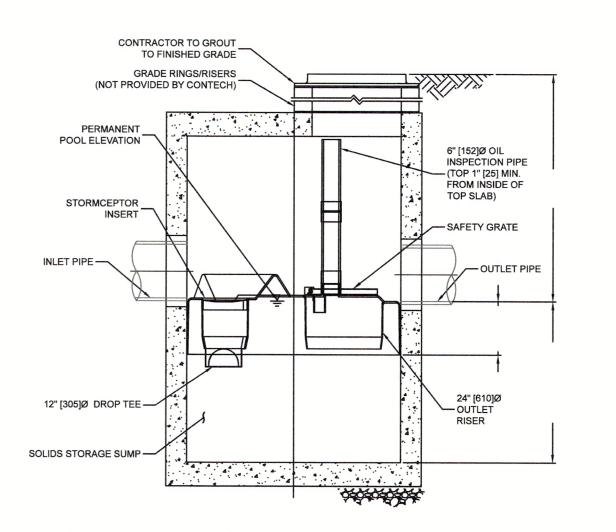
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE

B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.

D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.

E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STANDARD STC900 DETAIL



NOT TO SCALE

Y CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER CT LIC. NO. 12950 CAINJTLIC. NO. 28845 MA LIC. NO. 40595 BINY LIC. NO. 60022 NH LIC. NO. 9368 RVILIC. NO. 6694 BRUCE A. FITZBACK, P.L.S PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

DRAINAGE DETAILS

LARGE SCALE **SOLAR ARRAY**

278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 E.Q. C.J.B. AS SHOWN 18M-217 7-31-20

C3.4