# Site Plans

Issued for Application

Date Issued September 29, 2021

Latest Issue September 29, 2021

# Photovoltaic Installation

361 Old Tavern Road Orange, Connecticut

# **Applicant**

Greenskies Clean Energy, LLC 127 Washington Ave West Building, Garden Level North Haven, CT 06473

Map / Block / Lot: 11 / 03 / 02

# Owner

Addie Associates LLC 361 Old Tavern Road Orange, CT 06477



No.	Drawing Title	Latest Issue
C-1.0	Legend and General Notes	September 29, 202
C-2.0	Key Plan	September 29, 202
C-3.0	Layout and Materials Plan - Overall	September 29, 202
C-3.1-3.2	Layout and Materials Plan 1 and 2	September 29, 202
C-4.0	Grading and Drainage Plan - Overall	September 29, 202
C-4.1-4.2	Grading and Drainage Plan 1 and 2	September 29, 202
C-5.0	Erosion and Sediment Control Plan - Overall	September 29, 202
C-5.1-5.2	Erosion and Sediment Control Plan 1 and 2	September 29, 202
C-6.1-6.2	Site Details	September 29, 202

	Reference Drawings		
	No.	Drawing Title	Latest Issue
1 1	20-256	Plan of Land in Orange, CT	March 19, 2021



Wethersfield, CT 06109 860.807.4300

Suite 200

### **Licensed Land Surveyor**

Northeast Survey Consultants 116 Pleasant St. Suite 302 P.O. Box 109 Easthampton, MA 01027 413-203-5144  $\wedge large the large the large that the large t$ 

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Exist.	Prop.		Exist.	Prop.	
		PROPERTY LINE			CONCRETE
		PROJECT LIMIT LINE			HEAVY DUTY PAVEMENT
		RIGHT-OF-WAY/PROPERTY LINE			BUILDINGS
		EASEMENT			RIPRAP
		BUILDING SETBACK			CONSTRUCTION EXIT
		PARKING SETBACK	07.75.70	07.75.70	
10+00	10+00	BASELINE	27.35 TC×	27.35 TC×	TOP OF CURB ELEVATION
		CONSTRUCTION LAYOUT	26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION
		ZONING LINE	132.75 ×	132.75 ×	SPOT ELEVATION
		TOWN LINE	45.0 TW 38.5 BW	45.0 TW × 38.5 BW	TOP & BOTTOM OF WALL ELEVATIO
			-	<b>⊕</b>	BORING LOCATION
		LIMIT OF DISTURBANCE		M\W	TEST PIT LOCATION
<u>&amp;</u>		WETLAND LINE WITH FLAG	<b>○</b> MW	<b>→</b> MW	MONITORING WELL
		FLOODPLAIN	Un	——UD ——	LINIDEDDDAIN
		100-YEAR FLOOD LIMITS	12"D		UNDERDRAIN
			-	6″RD <b>→</b>	DRAIN
		GRAVEL ROAD	6"RD 12"S	12"S	ROOF DRAIN
EOP	EOP	EDGE OF PAVEMENT	FM		SEWER
BB	BB	BITUMINOUS BERM			FORCE MAIN
BC	BC	BITUMINOUS CURB	——OHW——	—— ОНW	OVERHEAD WIRE
CC	CC	CONCRETE CURB	6"W	6 <b>"</b> W	WATER
	CG	CURB AND GUTTER	4*FP	——4*FP——	FIRE PROTECTION
CC	ECC			2*DW	DOMESTIC WATER
CC	MCC	EXTRUDED CONCRETE CURB	3"G	———G——	GAS
CC	PCC	MONOLITHIC CONCRETE CURB	——Е——	——Е——	ELECTRIC
		PRECAST CONC. CURB	STM	——STM——	STEAM
SGE	SGE	SLOPED GRAN, EDGING	——Т	——т——	TELEPHONE
VGC	VGC	VERT. GRAN. CURB	———FA———	——FA——	FIRE ALARM
		LIMIT OF CURB TYPE	CATV		CABLE TV
		SAWCUT	_		
(1111111					CATCH BASIN
		BUILDING			DOUBLE CATCH BASIN
](	<b>]</b> ⊲EN	BUILDING ENTRANCE		<b>==</b>	GUTTER INLET
](	<b>]</b> ◀LD	LOADING DOCK	(1)	•	Drain Manhole
¥	•	BOLLARD	=TD=	<del></del>	TRENCH DRAIN
D	D	DUMPSTER PAD	Γ	r	PLUG OR CAP
-0	•	SIGN	CO	co •	CLEANOUT
<u> </u>	<b>=</b>	DOUBLE SIGN	<b>&gt;</b>	<b>&gt;</b>	FLARED END SECTION
			-	$\checkmark$	HEADWALL
1 1		STEEL GUARDRAIL			
0 0		WOOD GUARDRAIL	<u>\$</u>	•	SEWER MANHOLE
			_ CS ⊚	CS ●	CURB STOP & BOX
	====	PATH	₩V	₩V	WATER VALVE & BOX
		TREE LINE	TSV	TSV	
× ×	<del>-××-</del>	WIRE FENCE	<del></del>	<del></del>	TAPPING SLEEVE, VALVE & BOX
o	•	FENCE	HYD	HYD	SIAMESE CONNECTION
oo		STOCKADE FENCE	WM	<b>(⊚)</b> WM	FIRE HYDRANT
000000	· •	STONE WALL	□ PIV	⊡ PIV	WATER METER
		RETAINING WALL	<b>(a)</b>		POST INDICATOR VALVE
			<b>(</b> ()	<b>(W)</b>	WATER WELL
		STREAM / POND / WATER COURSE	GG	GG O	GAS GATE
		DETENTION BASIN	GM	GM ⊡	GAS METER
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_××	—×——×—	SILT FENCE	E EM	•	ELECTRIC MANHOLE
<> ·	· C::::::> ·	SILT SOCK / STRAW WATTLE	- 14	EM ⊡	ELECTRIC METER
4	4	MINOR CONTOUR	ф	*	LIGHT POLE
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			-		TRANSFORMER PAD
10)	(i)	PARKING COUNT	Ш	Ш	INANGFURIVIEK PAU
	<b>©10</b>	COMPACT PARKING STALLS	-0-	<b>+</b>	UTILITY POLE
DYL	DYL	DOUBLE YELLOW LINE	0-	•-	GUY POLE
SL	SL			Ţ	
[]]]]]]]]]			HH	HH	
		CROSSWALK	PB	PB	
		ACCESSIBLE CURB RAMP		ם	LOTT ROX
E	Ĕ.	ACCESSIBLE PARKING	Matc	<u> </u>	MATCHLINE
		STOP LINE CROSSWALK ACCESSIBLE CURB RAMP	HH PB	↓ HH PB	GUY WIRE & ANCHOR HAND HOLE PULL BOX MATCHLINE

VAN-ACCESSIBLE PARKING

#### **Abbreviations**

	Abbreviations
General	
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL
	THICAL
Utility	
СВ	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I =	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PIV	POST INDICATOR VALVE
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND

UNDERGROUND

UTILITY POLE

#### Notes

#### General

- CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (811 OR 1-800-922-4455) AT LEAST 72 HOURS BEFORE EXCAVATING.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES
- 3. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS.

SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

- 4. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- 5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE
- 6. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 7. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 8. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 9. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
- 10. THIS PROJECT DISTURBS MORE THAN FIVE ACRES OF LAND AND WILL REQUIRE ADHERENCE TO AND REGISTRATION FOR THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES, EFFECTIVE DECEMBER 31, 2020.
- 11. STAGING AND STOCKPILE AREAS SHALL NOT BE LOCATED WITHIN ANY WETLAND AND ABUTTING RESOURCE AREA AND SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE.

#### Hillities

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- 3. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- 4. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- 5. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.

#### Layout and Materials

- 1. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- 2. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- 3. FINAL LAYOUT SUBJECT TO CONDITIONS ENCOUNTERED IN THE FIELD.

#### <u>Demolition</u>

- 1. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- 2. THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION, THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK
- 3. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

#### **Erosion Control**

- PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE
  AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS
  IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- 2. CONTRACTOR OR QUALIFIED INSPECTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS OR MORE FREQUENTLY AS NEEDED, (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM AMOUNT OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.
- 6. VEGETATIVE SLOPE STABILIZATION WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. VEGETATIVE SLOPE

STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR STEEPER. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SODDING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

#### **Existing Conditions Information**

- BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY PLANS AND DEEDS OF RECORD AND MONUMENTS FOUND IN A FIELD SURVEY CONDUCTED BY RTK GPS. THE TOPOGRAPHY IS BASED ON A DIGITAL ELEVATION MODELS OF THE 2016 CRCOG LIDAR DATA DISTRIBUTED BY NOAA.
- TOPOGRAPHY: ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

#### Document Use

- 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- 3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.



100 Great Meadow Road Suite 200 Wethersfield, CT 06109 860.807.4300

# Photovoltaic Installation

361	Old	Tavern	Road
Ora	nge,	Conne	cticut

No.	Revision	Date	Appvd.

JDW SJK

John September 29, 2021

Application

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Didning Ind

Not Approved for Construction

Legend and General Notes

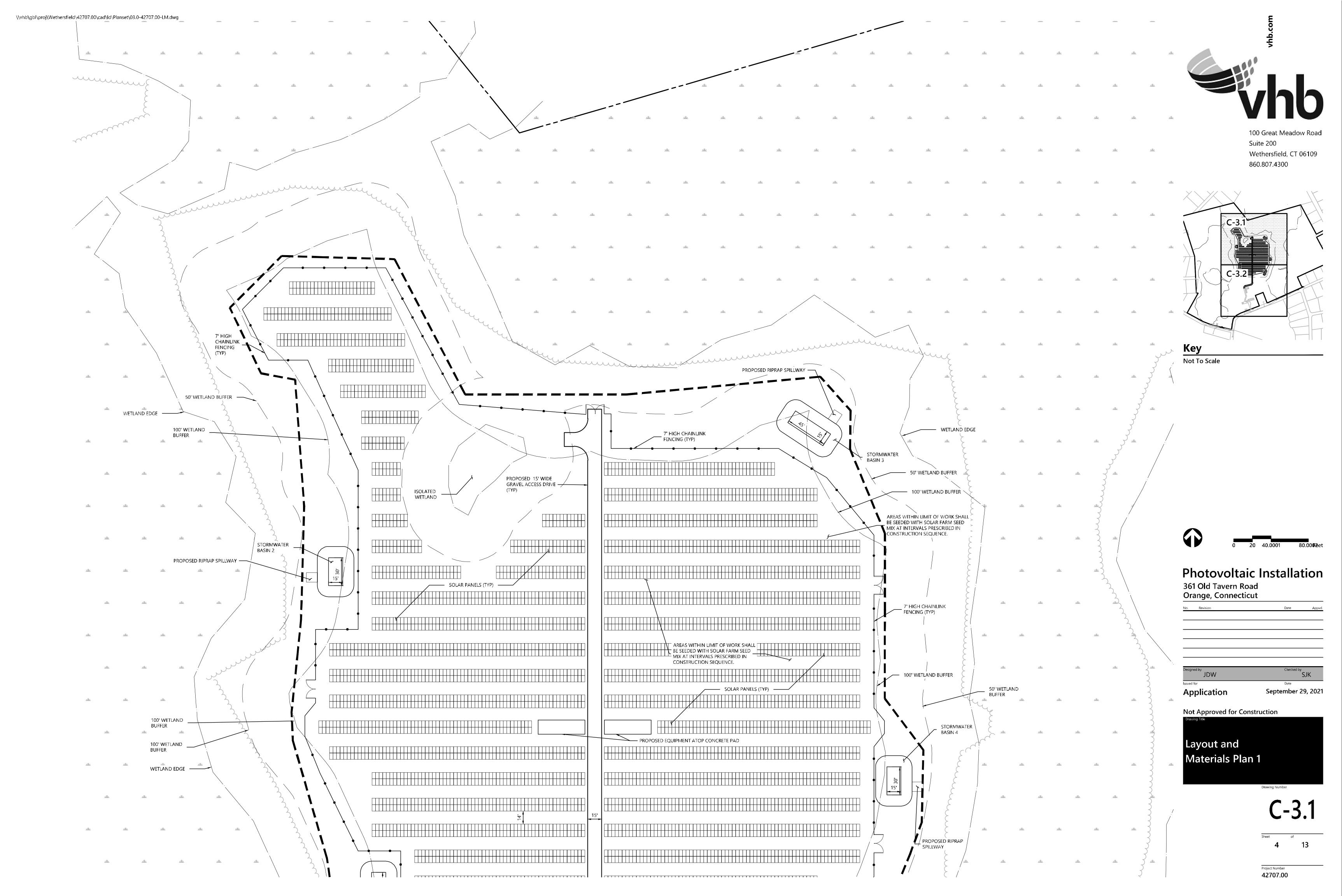
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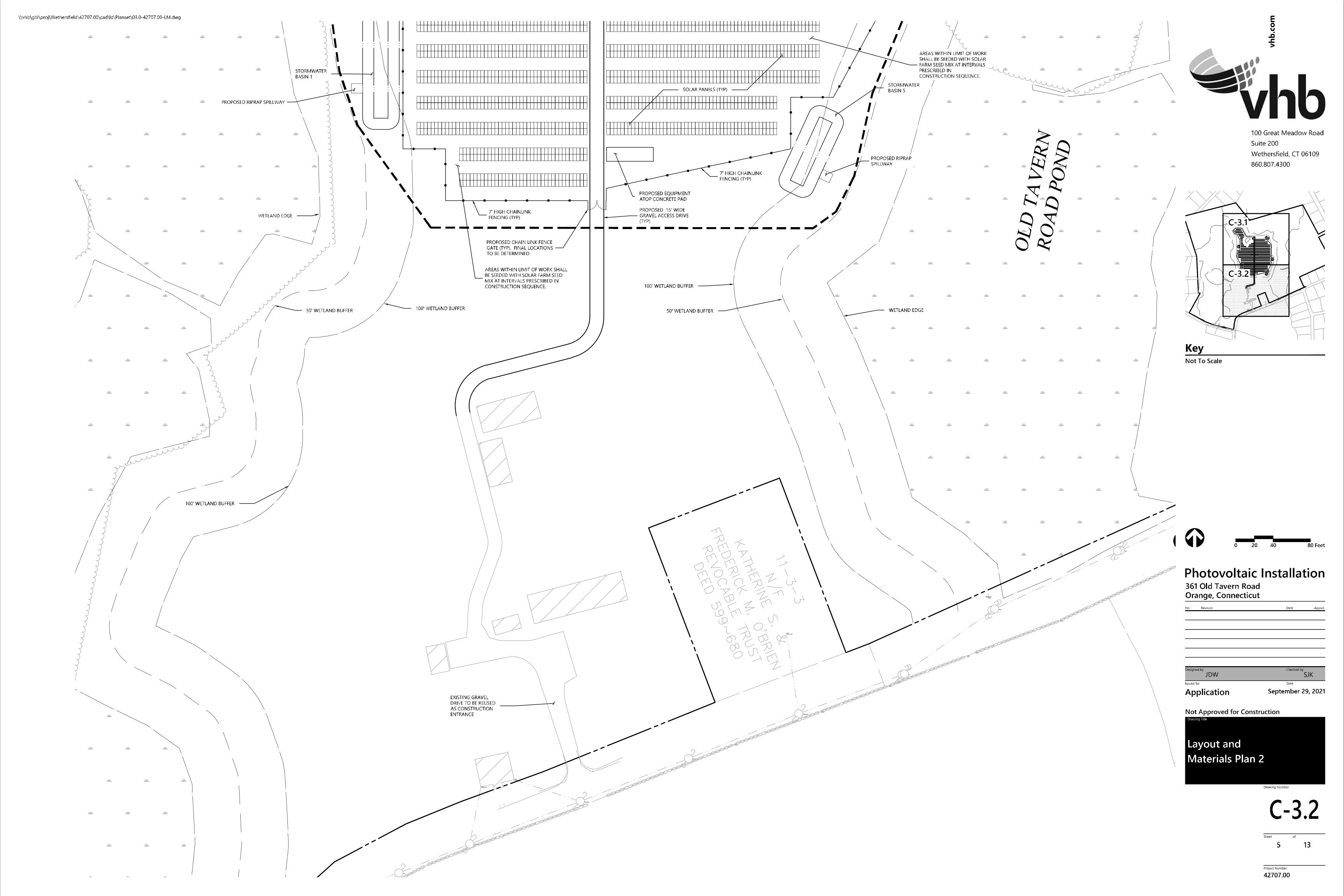
Project Number

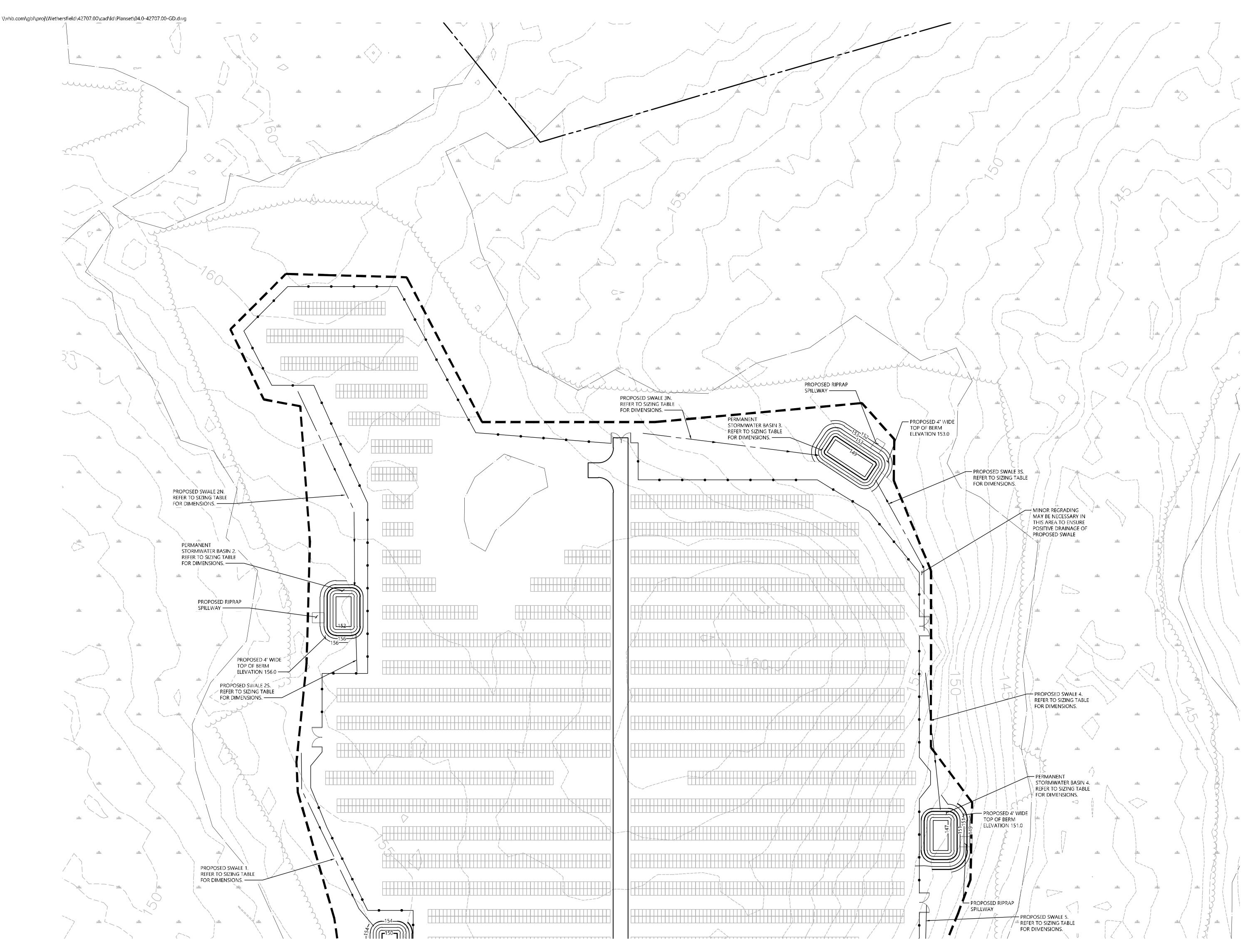
Project Number 42707.00





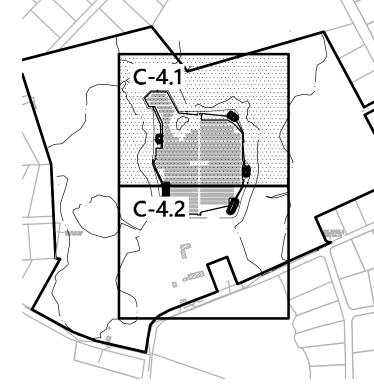








100 Great Meadow Road Suite 200 Wethersfield, CT 06109 860.807.4300



Key

Not To Scale

**Photovoltaic Installation** 

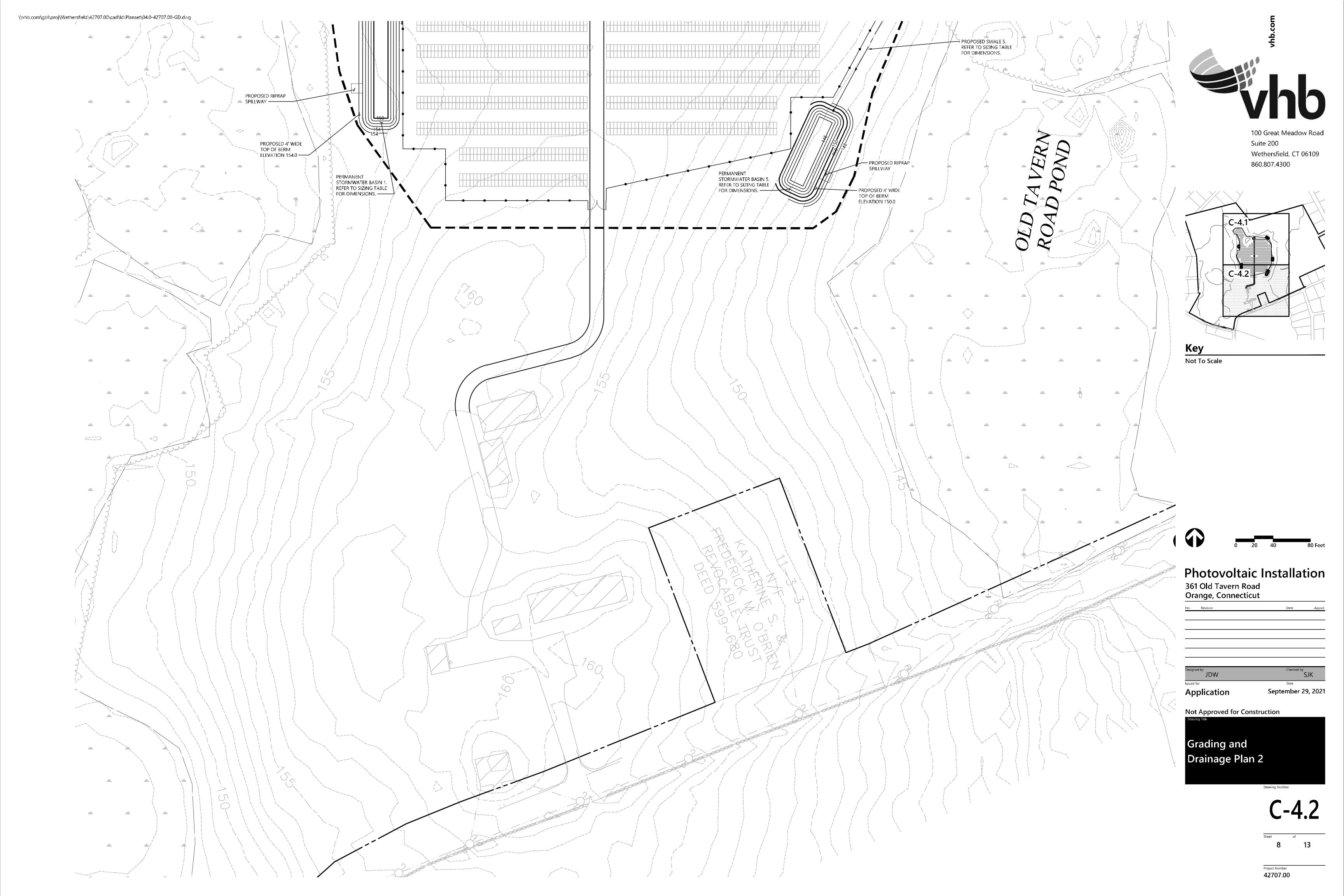
361 Old Tavern Road Orange, Connecticut

September 29, 2021 **Application** 

Not Approved for Construction

**Grading and** 

Drainage Plan 1



## **CONSTRUCTION SEQUENCING**

- ALL CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN THE SPRING OF 2022 AND BE
- COMPLETED BY THE END OF 2022. THE GENERAL CONSTRUCTION NOTES ARE AS FOLLOWS: 1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, WETLANDS AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. DESIGNATED ACCESS DRIVES MUST BE USED TO THE MAXIMUM EXTENTS POSSIBLE. IT IS REQUIRED THAT THE SITE CONTRACTOR PERFORM A DAILY INSPECTION OF ALL EROSION AND SEDIMENT CONTROL
- . A CTDEEP-APPROVED QUALIFIED INSPECTOR SHALL BE ASSIGNED TO BE RESPONSIBLE FOR PERFORMING INSPECTIONS AND PREPARING REPORTS IN ACCORDANCE WITH SECTION 5(B)(4)(B) OF THE CONSTRUCTION GENERAL PERMIT. THESE INSPECTIONS SHALL TAKE PLACE WEEKLY, AT A MINIMUM, AND SHALL BE REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT EXCEEDING 0.5 INCHES. THE ENGINEER OF RECORD SHALL BE REQUIRED TO REVIEW AND COUNTER-SIGN THE PREPARED WEEKLY REPORTS. IT IS ALSO ANTICIPATED THAT REPRESENTATIVES FROM CTDEEP AND/OR THE STATE CONSERVATION DISTRICT WILL PERFORM PERIODIC INSPECTIONS.
- ENGINEER OF RECORD WILL PERFORM MONTHLY PLAN IMPLEMENTATION INSPECTIONS AND PREPARE REPORTS OF THE FINDINGS. THESE INSPECTIONS SHALL LAST A MINIMUM OF THREE (3) MONTHS OR UNTIL THE COMPLETION AND STABILIZATION OF ALL EROSION CONTROL MEASURES AT THE SITE.
- 4. THROUGHOUT THE COURSE OF THE CONSTRUCTION PROJECT, ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE WARRANTED AT THE DISCRETION OF THE QUALIFIED INSPECTOR AND/OR DESIGN ENGINEER. THESE IMPROVEMENTS MUST BE IMPLEMENTED IN A TIMELY FASHION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT. ADDITIONALLY, AREAS OF PROPOSED COMPACTED NATIVE SOIL ROADS SHALL BE CONVERTED TO STABLE GRAVEL ROADS IF/AS DETERMINED BY THE QUALIFIED INSPECTOR OR
- PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF ORANGE WITH THE
- NAME OF CONTACT AND 24-HOUR CONTACT INFORMATION. 6. CONTRACTOR SHALL ADHERE TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND
- 7. THE CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETING(S). ATTENDEES SHALL INCLUDE, BUT NOT BE LIMITED TO, REPRESENTATIVES OF THE GENERAL CONTRACTOR, SITE CONTRACTOR, CTDEEP, TOWN OF ORANGE, ENGINEER OF RECORD, AND QUALIFIED SWPPP INSPECTOR.
- 8. THE CONTRACTOR SHALL CONTACT CALL-BEFORE-YOU-DIG (1-800-922-4455) PRIOR TO ENGAGING IN ANY EXCAVATION ACTIVITIES AT THE SITE.
- 9. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ORANGE AGENT, ZONING ENFORCEMENT OFFICER, AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
- 10. NO CONSTRUCTION OF SITE IMPROVEMENTS MAY BEGIN UNTIL THE PROPER EROSION
- CONTROL MEASURES SERVING THE AREA TO BE DISTURBED ARE IN PLACE. 11. ANTICIPATED WORK HOURS WILL BE BETWEEN 6:30 AM AND 5:00 PM.
- 12. ANY DEWATERING BY PUMP SHALL INCLUDE AN INTAKE AND/OR DISCHARGE FILTRATION SYSTEM (I.E. DIRTBAG SYSTEM) AND BE PUMPED TO STABLE GROUND. CONTRACTOR TO ENSURE DISCHARGED WATER IS RUNNING CLEAN OR ALTERIOR METHODS MUST BE EMPLOYED.

#### PRE-CONSTRUCTION SITE PROTECTION SEQUENCE

SEDIMENT CONTROL, AS AMENDED.

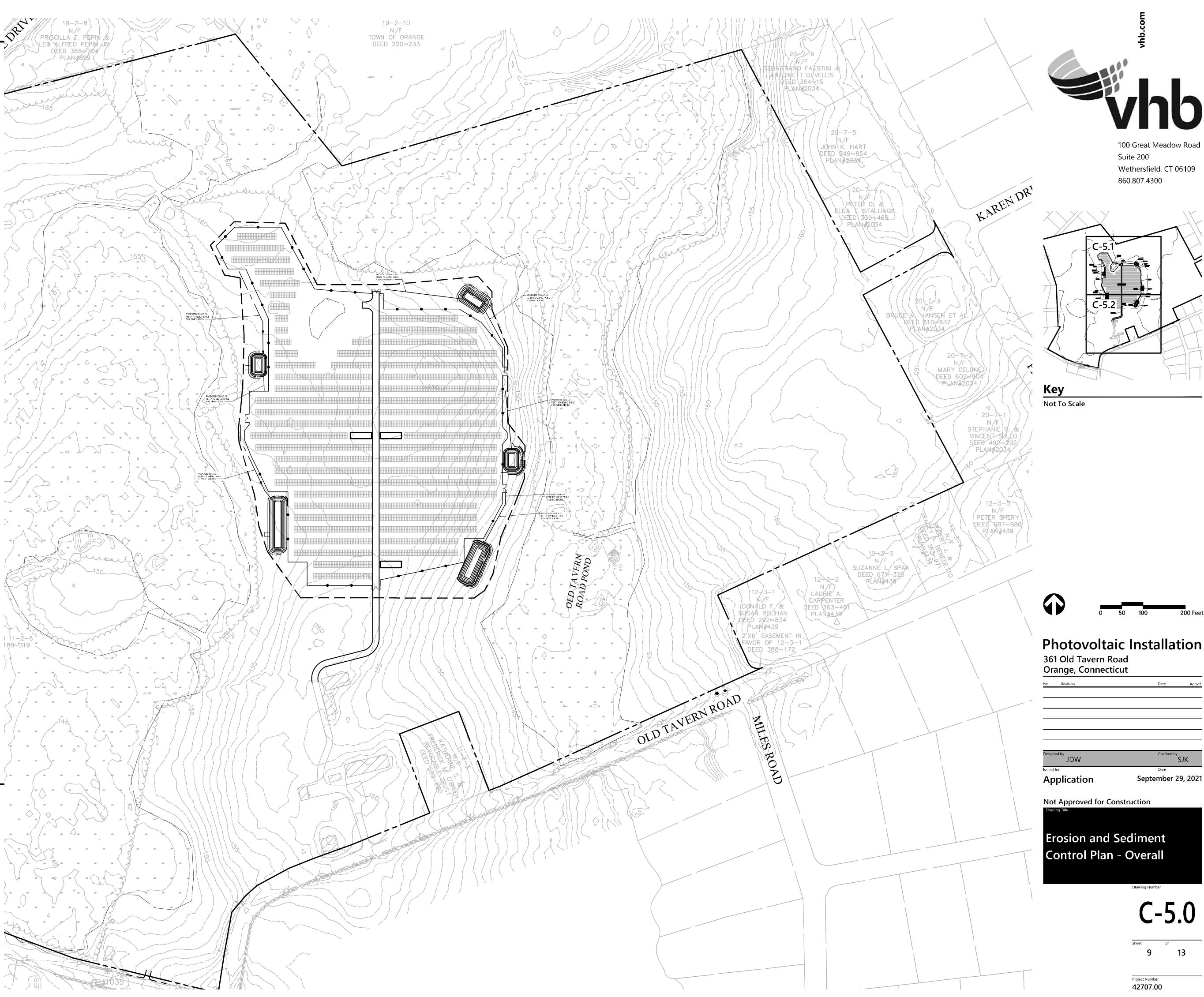
- 1. ACCESS ROADS SHALL BE DESIGNATED AS EARLY AS FEASIBLE AND USED PRIMARILY FOR CONSTRUCTION TRAFFIC.
- 2. INSTALL EROSION AND SEDIMENT CONTROLS FOLLOWING THE CT GUIDELINES AND MANUFACTURER'S DIRECTIONS. DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL MEASURES AS REQUIRED BY THE ENGINEER OF RECORD OR QUALIFIED INSPECTOR, TO PREVENT SEDIMENT-LADEN RUNOFF FROM REACHING WETLANDS OR DISCHARGING OFFSITE.
- . INSTALL STORMWATER BASIN/SEDIMENT TRAPS AND CONVEYANCE SWALES IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC SWPCP AND CT GUIDELINES. THE ENGINEER OF RECORD SHALL INSPECT FEATURES TO CONFIRM REQUIRED STORAGE CAPACITIES ARE PROVIDED AND THAT OUTLETS AND/OR SPILLWAYS ARE CONSTRUCTED CORRECTLY. DISCHARGE AREAS BELOW OUTFALLS MUST BE INSPECTED TO CONFIRM FLOW WILL BE OVER STABLE GROUND AND SHEET FLOW IS ENCOURAGED. IF DISTURBED SOILS ARE PRESENT, THE ENGINEER OF RECORD TO PROVIDE CORRECT MEASURES TO ADDRESS CONDITION.
- 4. SEED AND PROTECT DISTURBED SOILS AROUND SEDIMENT TRAPS AND BASINS WITHIN 14 DAYS OF COMPLETION. SECURE SEED WITH A THERMALLY-TREATED BFM APPLIED FOLLOWING MANUFACTURER'S SPECIFICATIONS FOR USE AT SPECIFIED APPLICATION RATES. AN ANIONIC POLYACRYLAMIDE PRODUCT MAY BE INCLUDED WITH THE TACKIFIER TO PROMOTE SOIL STABILITY. ALL OTHER AMENDMENTS SHOULD BE PRESCRIBED BASED ON THE RESULT OF SOIL
- PERFORM MASS EARTHWORK ON THE SITE. MASS EARTHWORK SHALL ONLY MEAN REGRADING TO MEET THE PROPOSED GRADING DEPICTED ON THE PLANS. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM AREAS PROPOSED FOR REGRADING. EXCESS SOIL WHICH IS NOT REUSED IN PROPOSED SITE GRADING AS DEPICTED ON PLANS SHALL BE HANDLED PER THE OWNER.
- 6. TOPSOIL SHALL BE REPLACED TO 3" MINIMUM DEPTH OVER REGRADED AREAS UPON COMPLETION OF MASS EARTHWORK ACTIVITIES AND AREAS WHICH WERE DISTURBED BY MASS EARTHWORK OPERATIONS SHALL BE RESEEDED WITHIN 14 DAYS OF COMPLETION.
- 7. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL ADDRESS ONGOING EROSION PROBLEMS USING TEMPORARY DIVERSIONS AND FILLING AND GRADING GULLIES. TRACK GULLIES UP AND DOWN SLOPE AND HYDROSEED WITH A THERMALLY-TREATED WOOD BONDED FIBER MATRIX (BFM) MULCH WITH TACKIFIER. A STAPLED BIODEGRADABLE EROSION CONTROL BLANKET WITHOUT MONOFILAMENT MESH IS AN ACCEPTABLE ALTERNATIVE FOR HYDROSEED
- 8. UPON COMPLETION OF THIS CONSTRUCTION PHASE, ALL DISTURBED AREAS SHALL BE SEEDED WITH TACKIFIER AND CONSTRUCTION SEQUENCE MAY ONLY BEGIN IN AREAS DISPLAYING ADEQUATE VEGETATION WITHIN PROPOSED ARRAY AREA.

- CONSTRUCTION SEQUENCE

  1. INSTALL PILES AND/OR GROUND SCREWS FOR SOLAR PANEL RACKING. P. THE INSTALLATION OF RACKING SHALL FOLLOW THE FOUNDATION INSTALLATION BY ROUGHLY
- ONE WEEK STARTING FROM THE SAME POINT.
- RESEED AND REGRADE ALL AREAS DISTURBED BY CONSTRUCTION TRAFFIC WITHIN THE ARRAYS WHERE RACKS ARE INSTALLED AS EARLY AS POSSIBLE. RUTS AND RILLS SHALL BE SMOOTHED AND GRADED AS DISCOVERED.
- 4. INSTALL SOLAR PANEL MODULES IN THE RACKING. MUCH OF THIS WORK IS ANTICIPATED TO BE PERFORMED BY HAND AND LIGHT CONSTRUCTION EQUIPMENT WHICH WILL CAUSE MINIMAL DISTURBANCE COMPARED TO THE USE OF HEAVY EQUIPMENT. DESIGNATED ACCESS ROADS SHALL STILL BE USED TO THE MAXIMUM EXTENTS POSSIBLE.
- 5. UPON COMPLETION OF CONSTRUCTION, RE-SEED ALL DISTURBED AREAS WITHIN 14 DAYS AND PREVENT VEHICULAR TRAFFICKING OVER THESE AREAS. INSTALL FINAL LANDSCAPING.
- AFTER SITE IS STABILIZED, AND AFTER INSPECTION BY DESIGN ENGINEER, OR OTHER OWNER'S REPRESENTATIVE, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. ENTIRE SITE SHALL BE CHECKED FOR AND CLEANED OF SEDIMENT AS NEEDED.

## WILDLIFE PROTECTION

- IT IS ANTICIPATED THAT THE PRESENCE OF EASTERN BOX TURTLES, WOOD TURTLES, OR BROWN THRASHERS MAY BE LIKELY AT THE SITE IN ACCORDANCE WITH CONSULTATION WITH CTDEEP WILDLIFE DIVISION. THE CONSTRUCTION TEAM SHALL EMPLOY THE FOLLOWING RECOMMENDED PROTECTION STRATEGIES TO HELP ENSURE THE SURVIVABILITY OF TURTLES AT THE PROJECT AREA:
- 1. A 20 INCH TALL MINIMUM WILDLIFE EXCLUSIONARY BARRIER (I.E. NON-NETTED SILT FENCE) SHALL BE REGULARLY MAINTAINED AROUND THE ENTIRE LIMIT OF CONSTRUCTION TO DELINEATE AND PROTECT THE WORK AREA FROM TURTLES ENTERING IT
- 2. CARE SHALL BE TAKEN AT ALL STAGING AND STORAGE AREAS OUTSIDE THE DELINEATED WORK ZONE TO REVIEW FOR THE PRESENCE OF EASTERN BOX TURTLES AND REMOVE THEM SAFELY, WHILE EXCLUDING THEM FROM RE-ENTRY TO THE AREA.
- 3. ALL CONSTRUCTION PERSONNEL SHALL BE APPRISED OF THE SPECIES DESCRIPTION AND INSTRUCTED TO RELOCATE TURTLES FOUND WITHIN WORK AREAS OR NOTIFY SOMEONE ELSE
- 4. ALL SILT FENCE SHALL BE REMOVED ONCE THE PROJECT CONSTRUCTION IS COMPLETED. 5. THE CONTRACTOR SHALL SEARCH THE WORK AREA EACH MORNING PRIOR TO WORK BEING
- 6. LIMIT ANY EQUIPMENT USE WITHIN 50 FEET OF STREAMS AND BROOKS. GENERALLY, THE PROJECT
- DOES NOT PROPOSE ANY WORK WITHIN THIS BUFFER.
- 7. ANY CONFIRMED SIGHTINGS OF BOX, WOOD, OR SPOTTED TURTLES SHALL BE REPORTED AND DOCUMENTED WITH CTDEEP WILDLIFE DIVISION.



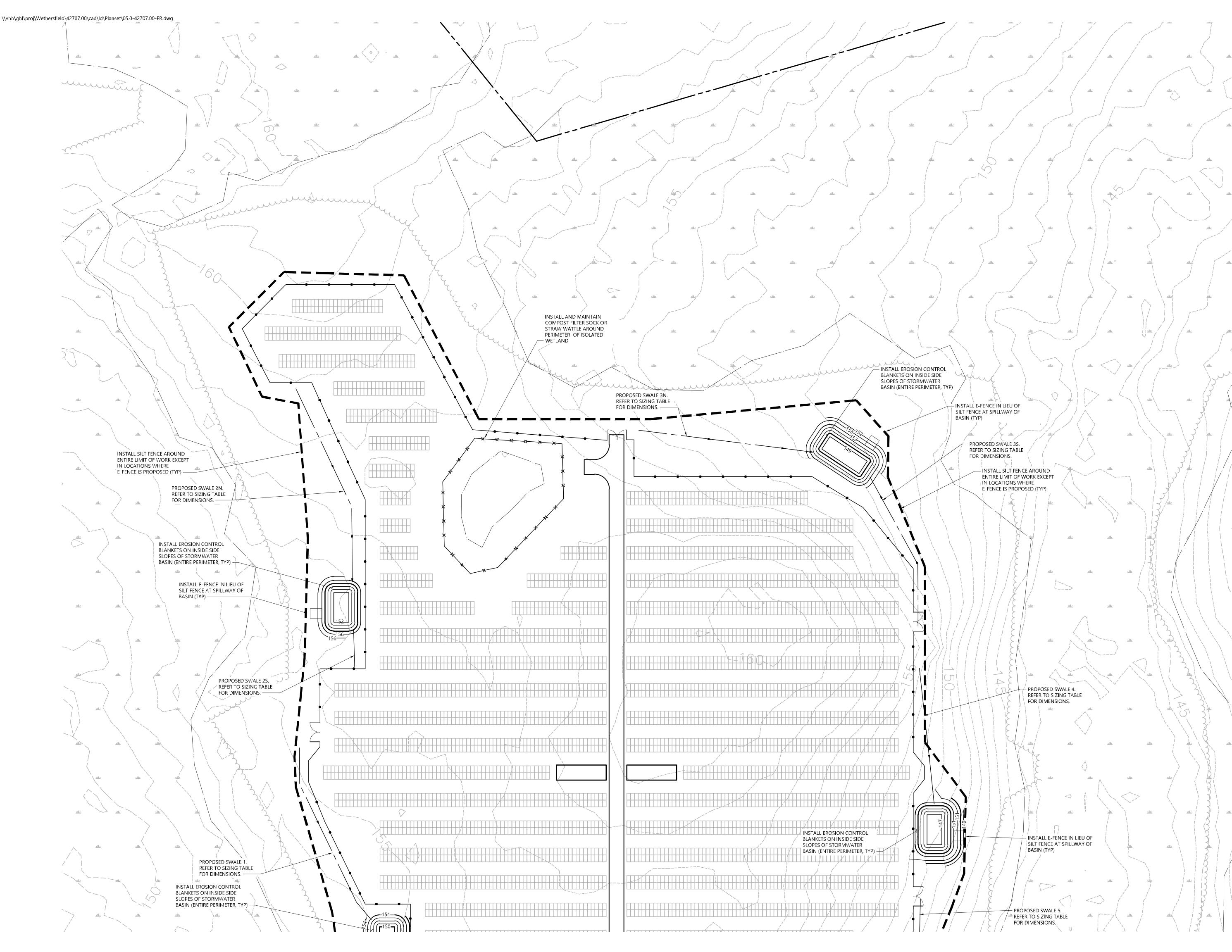
100 Great Meadow Road

Wethersfield, CT 06109

September 29, 2021

Suite 200

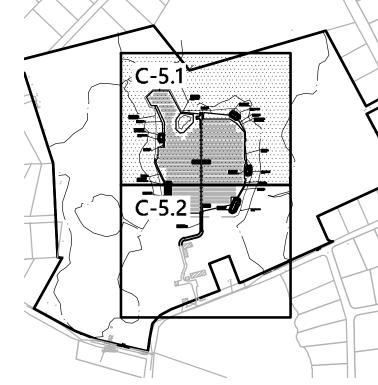
860.807.4300





100 Great Meadow Road Suite 200 Wethersfield, CT 06109

860.807.4300



Key

Not To Scale

# **Photovoltaic Installation**

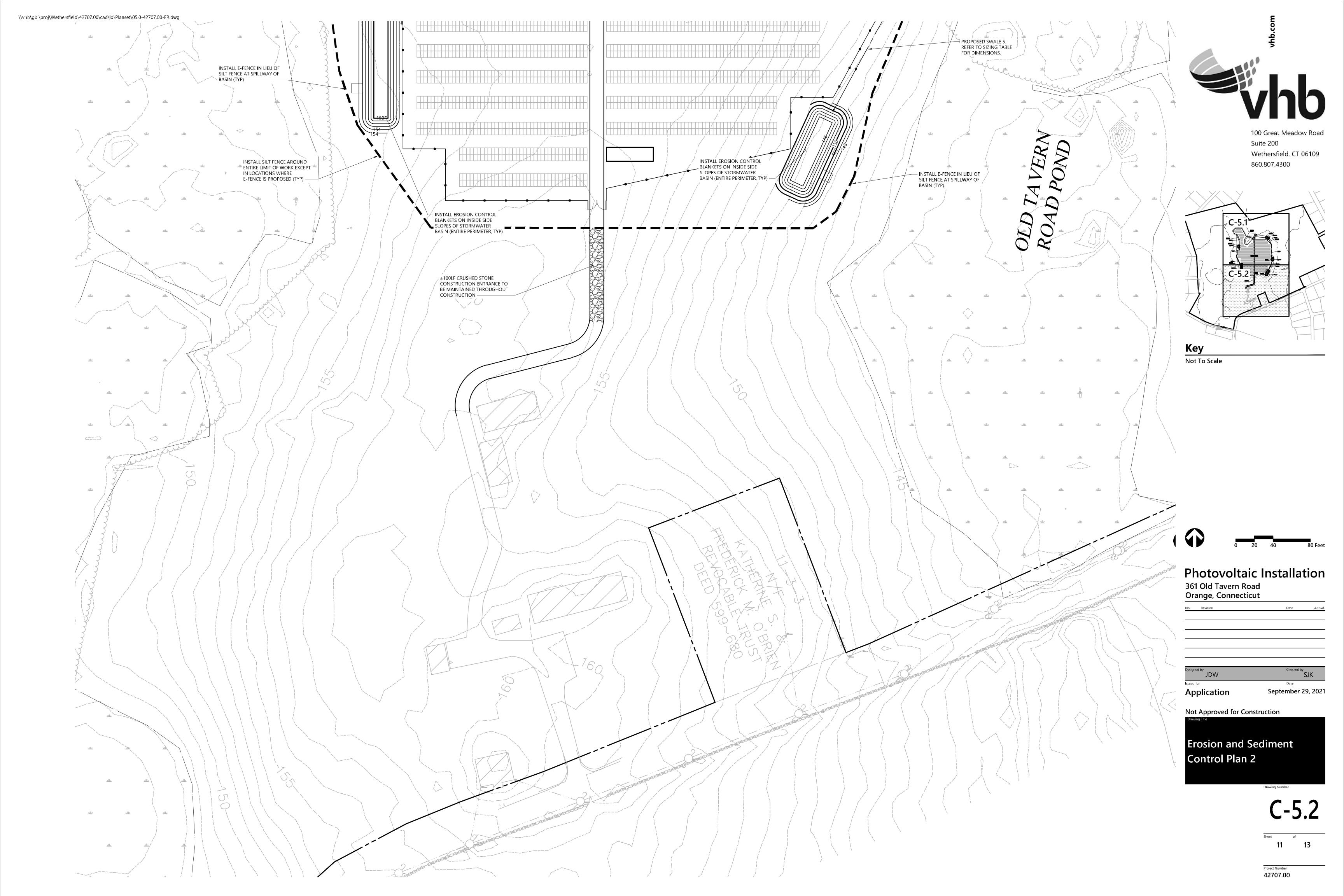
361 Old Tavern Road Orange, Connecticut

September 29, 2021

Application

**Not Approved for Construction** 

**Erosion and Sediment Control Plan 1** 

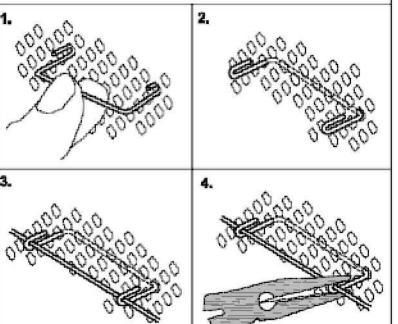


## E-Fence DETAILS - Wildlife Exclusion - WPT

other patents pending)

T-Post - 8 FT c-c At Fence E-Fence Guide Wire T-Post 8' OC sections, overlap 12" and wire tie Crimps crimped to guide 14 ga. guide wire (3 to together to close all gaps wire 3' c-c (Detail A) 4" from top of barrier) E-Fence Guide Wire - wrap once around top of each post and Construction tension from post to post EFB20 Side 14 gauge galvanized wire ERTEC E-Fence 20' 3" from top of fence. 14" - height above ground At posts, install 2 wire ties. Back fill fence side One at top, and one halfway. first, this side second Side A At E-Fence overlaps - sew sections together with wire-ties to completely eliminate all gaps. 6" - trench depth Back-fill Side A first to Drive posts to depth of push E-Fence against 18" below grade T-Posts

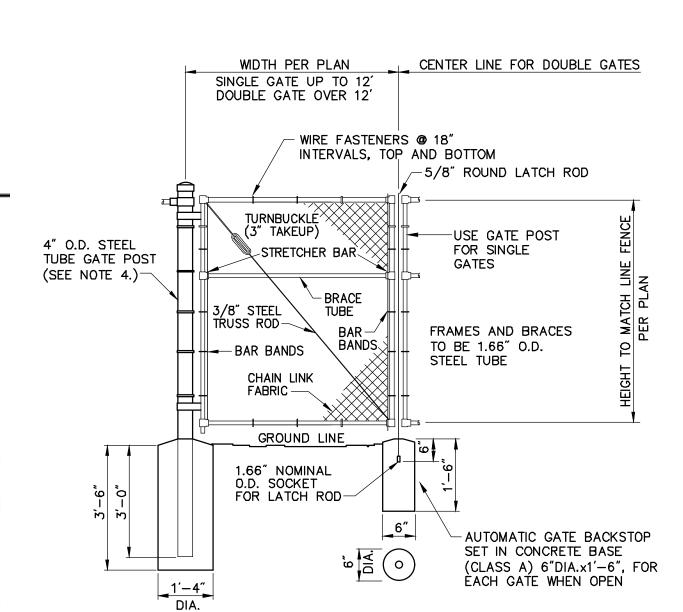
## E-Fence DETAILS – Guidewire Crimp Detail A: Instailing E-Fence Wire Ties: 1). Push E-Fence tie through barrier. 2). Expose hooks on side near guide wire, 3), insert guide wire, 4), Crimp tightly,



### E-Fence™ DETAILS – Wildlife Exclusion

#### Installation Notes:

- Excavate a trench a minimum of 4" wide and a minimum of 5"
- T-posts shall be a minimum of 0.95 lbs/ft. T-posts shall be driven a minimum 18" deep into the ground 8' centers
- Insert barrier material into trench and attach to post in two places: 1) at 3" below top of fence and at 2) mid-height
- At 3 Inches from top of fence (above wire tie), wrap 14 gauge galvanized wire once around each T-post and pull the guide wire from post to post, wrap, secure and pull wire tight between each
- At segment overlaps (roll length 100 or 150 LF), overlap segments a minimum of 12". Eliminate all gaps by tying sections together with tie wire in two vertical rows, as shown.
- Push E-Fence Guide Wire Crimps through the E-Fence and crimp the ties to the guide wire on the other side of the fence (two crimps per tie) at 3' intervals, as illustrated in Detail A of the installation guidelines. Crimp to the guide-wire securely.
- E-Fence must be installed in continuous lengths (100 or 150 feet rolls). Do not cut segments into shorter lengths unless necessary due to sudden changes in elevation.
- Backfill trench with trench spoils. Backfill from E-Fence side of posts first so that E-Fence is pushed up against T-posts. Back fill other side to complete backfill.



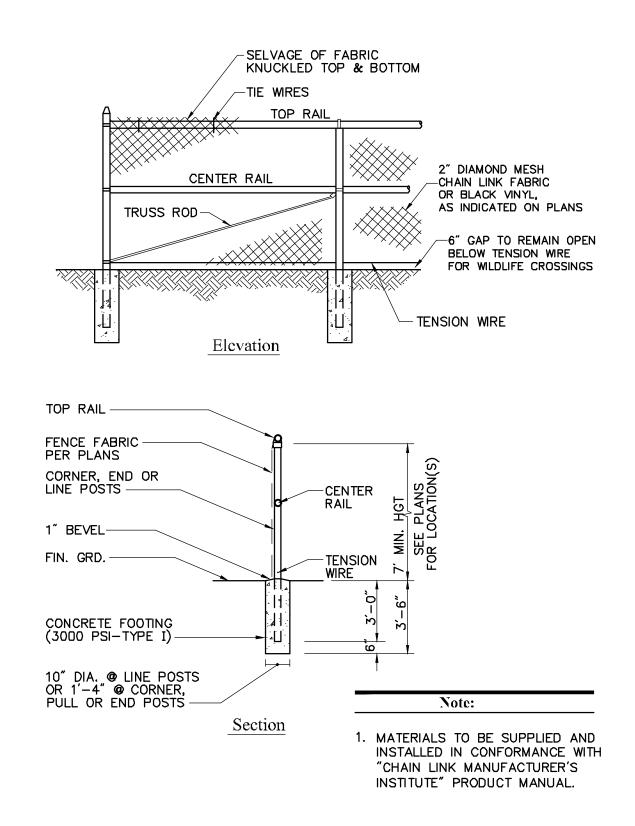
#### Notes:

- CHAIN LINK FABRIC FOR GATES TO BE THE SAME AS REQUIRED FOR FENCE.
- 2. GATE POST BASE-PORTLAND CEMENT CONCRETE (3000 PSI).
- 3. FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE GALVANIZED STEEL OR BLACK VINYL (AS INDICATED ON PLANS) PER SPECIFICATIONS.
- 4. GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

Chain Link Fence Gate		
N.T.S.	Source: VHB	 LD_482

## **E-Fence Installation Details**

N.T.S. Source: Ertec Environmental Systems



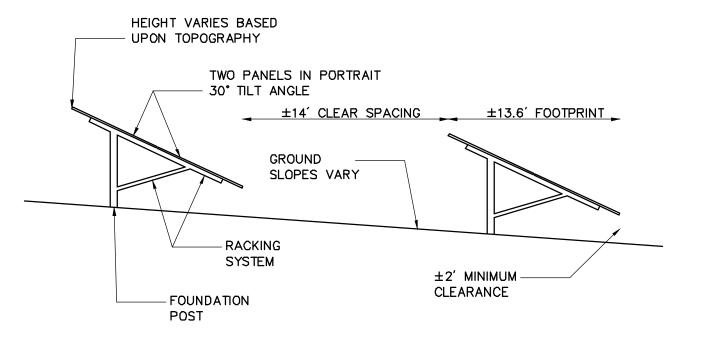
7' Chain Link Fence N.T.S. Source: VHB LD\_480



PHOTOVOLTAIC INSTALLATION Site Location: 361 Old Tavern Road, Orange, CT 06477 Owner: Greenskies Clean Energy, LLC Attn: Jean-Paul LaMarche 127 Washington Avenue, West Bldg, Lower Level North Haven, CT 06473 IN CASE OF EMERGENCY CALL 911 ORANGE POLICE DEPARTMENT - (203) 891-2130

- 1. THE SITE FACILITY SIGN IS A DRAFT SHOWING THE MINIMUM AMOUNT OF INFORMATION THAT WILL BE
- PROVIDED. SIGN WILL BE 18" X 24". 2. ALL SIGNS WILL BE MOUNTED ONTO THE CHAIN LINK

Danger and Site Facility Signs 1/16 N.T.S.



Notes:

FINAL DETERMINATION OF PANEL TYPE, RACKING SYSTEM, AND FOUNDATION POSTS TO BE DETERMINED PENDING BEST AVAILABLE TECHNOLOGY AT TIME OF CONSTRUCTION AND STRUCTURAL GROUND TESTING.

7/20

**Cross Section of Fixed-Tilt Panel Array** 

N.T.S. Source: VHB

## Photovoltaic Installation

100 Great Meadow Road

Wethersfield, CT 06109

Suite 200

860.807.4300

361 Old Tavern Road Orange, Connecticut

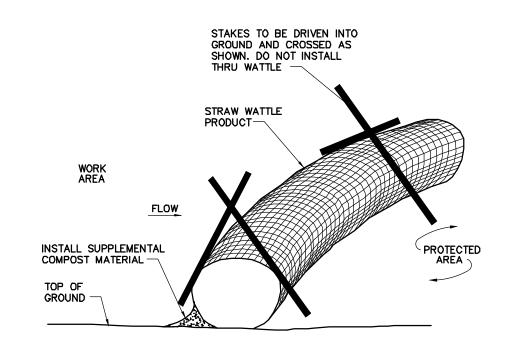
<sup>^</sup> JDW September 29, 2021 **Application** 

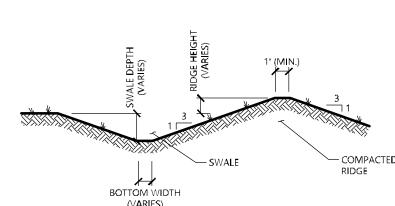
Not Approved for Construction





42707.00



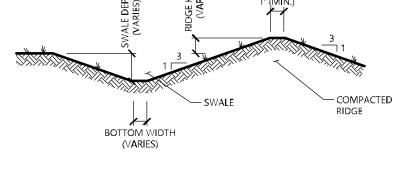


1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1 2. REFER TO "DIVERSION SWALE SIZING" TABLE FOR SELECTION OF LINING MATERIAL TO BE INSTALLED OVER ENTIRE SWALE AREA.

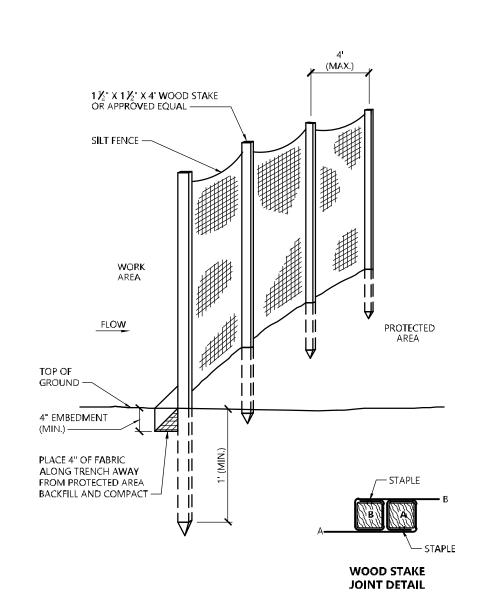
3. REFER TO "DIVERSION SWALE SIZING" TABLE FOR VARIABLE SIZING.

4.THE INTENT IS TO USE THE MATERIAL EXCAVATED FROM THE SWALE TO CONSTRUCT THE RIDGE.

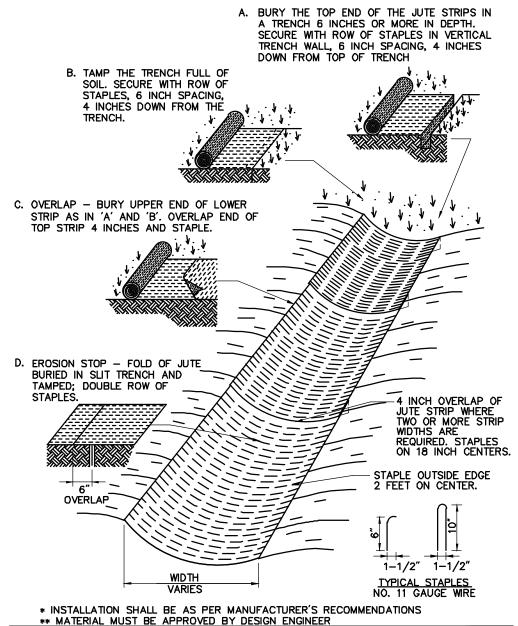
Straw Wattle Installation 8/12 N.T.S. LD\_658



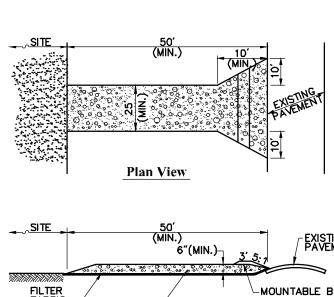
Diversion Swale		Silt Fence Barrier	
N.T.S.	Source: VHB	N.T.S.	Source: VHB

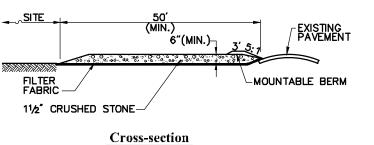


Silt Fence Barrier		1/16
N.T.S.	Source: VHB	LD_650



et (ECB) Swale Installation	6/08
Source: VHB	LD_681
	,



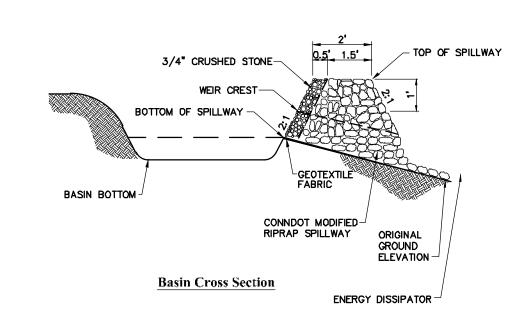


Notes: ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

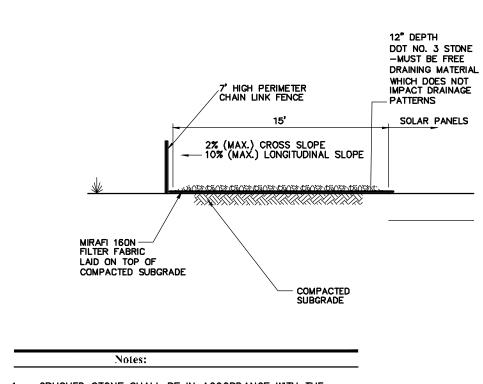
Stabilized Construction Exit 6/08		
N.T.S.	Source: VHB	LD_682



1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1 ALL SIDE SLOPES SHALL NOT EXCEED 3:1
 TOP OF EMBANKMENT SHALL BE 2' (MIN.) WIDTH AND 1' (MIN.) ABOVE TOP OF SPILLWAY.
 SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER.
 REFER TO "PERMANENT STORMWATER BASIN SIZING" TABLE FOR VARIABLE SIZING.
 PERIMETER SILT FENCE SHALL BE REMOVED IMMEDIATELY DOWNSTREAM FROM SPILLWAY AND REPLACED WITH E-FENCE.

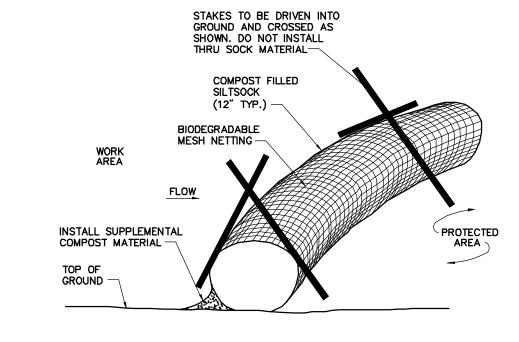
**Spillway Cross Section** 

Permanent Storm	water Basin
N.T.S.	Source: VHB



1.	CRUSHED STONE SHALL BE IN ACCORDANCE WITH THE
•••	CURRENT VERSION OF THE CONNECTICUT DEPARTMENT
	OF TRANSPORTATION SPECIFICATIONS FOR ROADS.
	BRIDGES, AND INCIDENTAL CONSTRUCTION.

**Perimeter Access Cross Section** 



Notes:	
SILTSOCK SHALL BE 12" DIAMETER FILTREXX SILTSOXX, O APPROVED EQUAL.	)R

- 2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
- SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- 5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

Compost Filto	er Sock (CFS)	8/12
N.T.S.	Source: VHB	LD_658

		Р	ERMANENT S	TORMWATER	BASIN SIZIN	G		
NUMBER	BASIN TYPE	LENGTH AT BASIN BOTTOM (TOE OF SLOPE), FT	WIDTH AT BASIN BOTTOM (TOE OF SLOPE), FT	SIDE SLOPES	BOTTOM ELEVATION, FT	ELEVATION OF BOTTOM/CREST OF SPILLWAY, FT	SPILLWAY WIDTH AT BASE, FT	MINIMUM TOP OF BERM ELEVATION, FT
1	PERMANENT	110	15	3:1	150.0	153.5	20	154.0
5	PERMANENT	30	15	3:1	152.0	155.5	10	156.0
3	PERMANENT	45	15	3:1	149.0	152.0	10	153.0
4	PERMANENT	30	15	3:1	147.0	149.5	10	151.0
5	PERMANENT	75	15	3:1	146.0	148.5	10	150.0

	DI\	/ERSION SW	ALE SIZ	ING		
NAME	APPROXIMATE TRIBUTARY AREA, AC	APROXIMATE LENGTH, FT	BOTTOM WIDTH, FT	SIDE SLOPES	SWALE DEPTH, FT	LINING MATERIAL
1	1.7	190	4	3:1	1	ECB
52	0.1	30	1	3:1	1	ECB
2N	0.3	210	1	3:1	1	ECB
3N	0.8	170	1	3:1	1	ECB
32	0.3	160	1	3:1	1	ECB
4	0.4	140	1	3:1	1	ECB
5	0.6	140	1	3:1	1	ECB

# **Photovoltaic Installation**

100 Great Meadow Road

Wethersfield, CT 06109

Suite 200

860.807.4300

361 Old Tavern Road Orange, Connecticut

Application	September 29, 2021
Issued for	Date
JDW	SJK
Designed by	Checked by



42707.00

3/4" CRUSHED STONE TOP OF SPILLWAY
WEIR CREST
CONNDOT MODIFIED ORIGINAL GROUND FLEVATION
TRAP BOTTOM
Trap Cross Section

NOTE: 1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1 2. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER. 3. TRAP SHALL BE DRAINED AND CLEANED OF SEDIMENT ONCE SEDIMENT IS > 1' ABOVE TRAP BOTTOM.

Source: VHB

**Sediment Trap (TST)** 

NOTE.

1. ALL SIDE SLOPES SHALL NOT EXCEED 2:1

2. TOP OF EMBANKMENT SHALL BE 2' (MIN.) WIDTH AND 1' (MIN.) ABOVE TOP OF SPILLWAY,

3. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER. 4, REFER TO "PERMANENT STORMWATER BASIN SIZING" TABLE FOR VARIABLE SIZING. 5. PERIMETER SILT FENCE SHALL BE REMOVED IMMEDIATELY DOWNSTREAM FROM SPILLWAY.

> Stormwater Basin Spillway N.T.S.

Sizing Tables for Temporary & Permanent Stormwater Features

