

Randolph Davis Solar, LLC

Davis Road
Randolph, Vermont



ISSUED FOR PERMIT REVIEW
NOT FOR CONSTRUCTION

SOURCE DATA LEGEND

MAPPING SOURCE DATA USED FOR PLAN COMPIATION

Electrical Design:
Norwich Solar Technologies
15 Railroad Road
White River Junction, Vermont 05001

Civil Engineering:
Krebs and Lansing Consulting Engineers, Inc.
164 Main Street, Suite 201
Colchester, Vermont 05446

Environmental:
Arrowwood Environmental
955 Sorri White Rd
Huntington, Vermont 05462

0' 80' 160' 240'
0" 1" 2" 3"
STANDARD GRAPHIC SCALE (1" = 80')
VALID WHEN PLOTTED ON 24" BY 36" MEDIA

0' 86.0' 172.0'
0" 0.5" 1"
REDUCED GRAPHIC SCALE (1" = 172.0')
VALID WHEN PLOTTED ON 11" BY 17" MEDIA

Proposed Solar Array

REVISIONS/COMMENTS	DATE
Revised array onto existing slopes less than 25%	2-22-22
Added areas within LOD of the access road with existing slopes greater than 25% based on LOD	4-18-22
Updated environmental buffers. Revised array LOD on existing slopes less than 25%	6-17-22
Show slopes greater than 25% on entire LOD. Revise array to avoid steep slopes	7-13-22

Drawing Title:

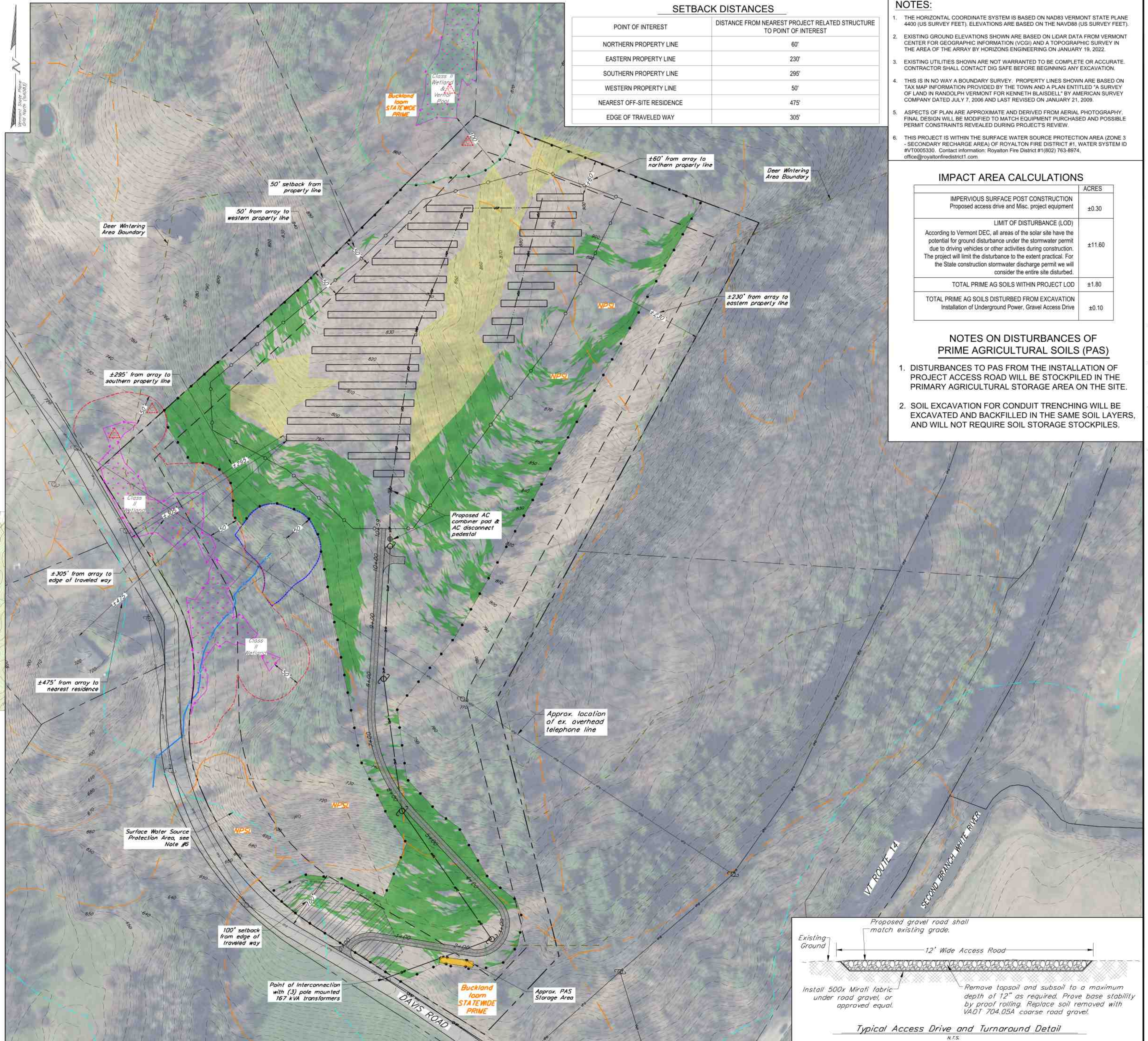
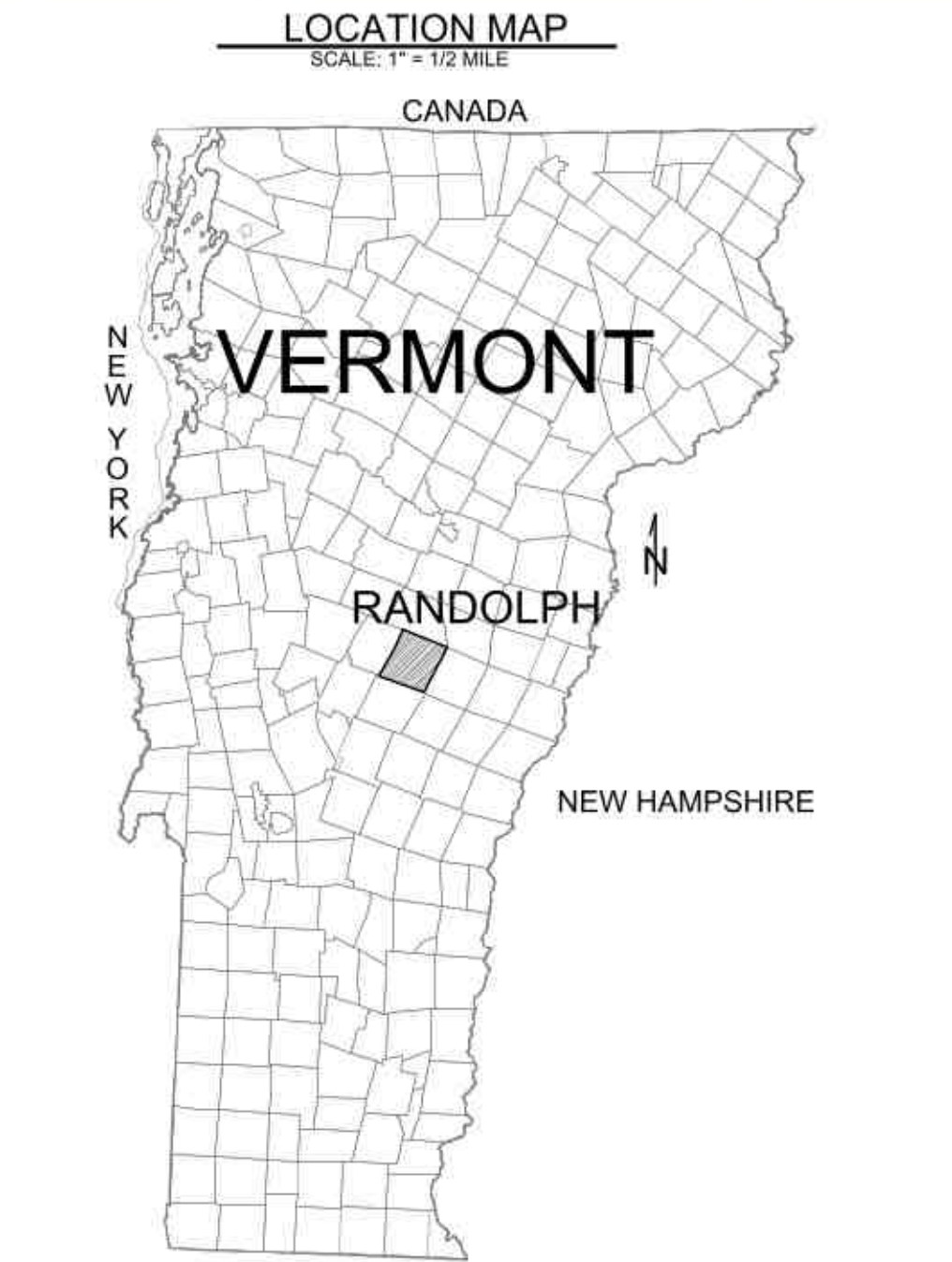
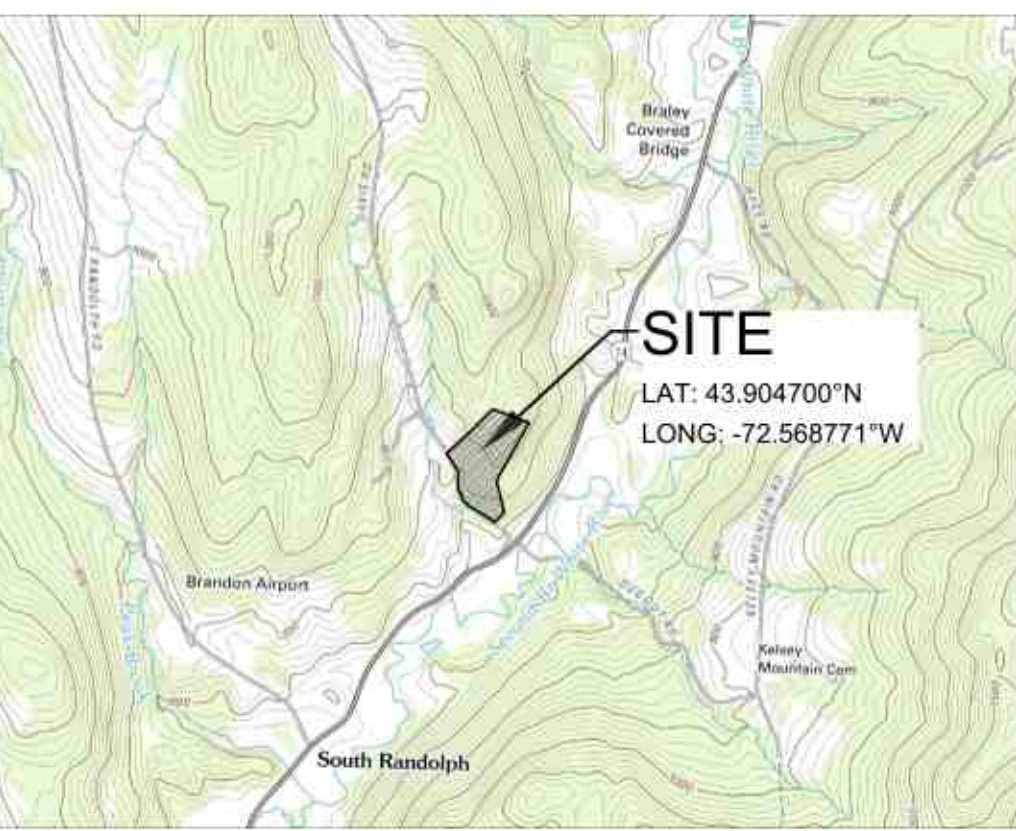
PRELIMINARY SITE PLAN

DATE of Issue: 8/04/2021
Drawn by: JBC Checked by: JBC
Project No.: 21294 Scale: 1" = 80'
Drawing No.: Rev No:

C-100

LEGEND:

- EXISTING / PROPOSED POWER POLE
- EXISTING GRADE 10-FT CONTOUR LINES (BASED ON VCGI DATA)
- EXISTING GRADE 2-FT CONTOUR LINES (BASED ON VCGI DATA)
- EXISTING OVERHEAD POWER LINES
- APPROXIMATE PROPERTY LINES
- APPROXIMATE PROJECT PROPERTY LINES
- SETBACKS TO SOLAR PANEL RACKING
- WETLANDS (LOCATED BY AE)
- WETLAND BUFFER
- STREAM (LOCATED BY AE)
- STREAM TOP OF BANK (LOCATED BY AE)
- RIPARIAN BUFFER
- MAPPED SOIL BOUNDARY (VCGI)
- PROPOSED 12' GRAVEL ACCESS ROAD
- PROPOSED UNDERGROUND POWER
- PROPOSED OVERHEAD POWER
- PROPOSED UPGRADED OVERHEAD POWER
- PROPOSED PERIMETER FENCE
- PROPOSED FIXED SOLAR PANEL RACKING
- PROPOSED STAGING AREA
- PROPOSED CLEARING AND LIMIT OF DISTURBANCE (LOD)
- SURFACE WATER SOURCE PROTECTION AREA (VCGI)
- DEER WINTERING AREA (VCGI)
- PAS STORAGE AREA
- EXISTING GRADE AREAS GREATER THAN 25% SLOPE BASED ON ON-SITE TOPOGRAPHIC SURVEY
- EXISTING GRADE AREAS GREATER THAN 25% SLOPE BASED ON LIDAR DATA FROM VCGI
- VERNAL POOL (LOCATED BY AE)
- VERNAL POOL BUFFER



SETBACK DISTANCES

POINT OF INTEREST	DISTANCE FROM NEAREST PROJECT RELATED STRUCTURE TO POINT OF INTEREST
NORTHERN PROPERTY LINE	60'
EASTERN PROPERTY LINE	230'
SOUTHERN PROPERTY LINE	295'
WESTERN PROPERTY LINE	50'
NEAREST OFF-SITE RESIDENCE	475'
EDGE OF TRAVELED WAY	305'

NOTES:

- THE HORIZONTAL COORDINATE SYSTEM IS BASED ON NAD83 VERMONT STATE PLANE 4400 (US SURVEY FEET). ELEVATIONS ARE BASED ON THE NAVD83 (US SURVEY FEET).
- EXISTING GROUND ELEVATIONS SHOWN ARE BASED ON LIDAR DATA FROM VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI) AND A TOPOGRAPHIC SURVEY IN THE AREA OF THE ARRAY BY HORIZONS ENGINEERING ON JANUARY 19, 2022.
- EXISTING UTILITIES SHOWN ARE NOT WARRANTED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
- THIS IS IN NO WAY A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE BASED ON TAX MAP INFORMATION PROVIDED BY THE TOWN AND A PLAN ENTITLED "A SURVEY OF LAND IN RANDOLPH VERMONT FOR KENNETH BLAISDELL" BY AMERICAN SURVEY COMPANY DATED JULY 7, 2006 AND LAST REVISED ON JANUARY 21, 2009.
- ASPECTS OF PLAN ARE APPROXIMATE AND DERIVED FROM AERIAL PHOTOGRAPHY. FINAL DESIGN WILL BE MODIFIED TO MATCH EQUIPMENT PURCHASED AND POSSIBLE PERMIT CONSTRAINTS REVEALED DURING PROJECT'S REVIEW.
- THIS PROJECT IS WITHIN THE SURFACE WATER SOURCE PROTECTION AREA (ZONE 3 - SECONDARY RECHARGE AREA) OF ROYALTON FIRE DISTRICT #1. WATER SYSTEM ID #VT0005330. Contact information: Royalton Fire District #1 (802) 763-8974, office@royaltonfiredistrict1.com

IMPACT AREA CALCULATIONS

IMPERVIOUS SURFACE POST CONSTRUCTION	ACRES
Proposed access drive and Misc. project equipment	±0.30
LIMIT OF DISTURBANCE (LOD)	
According to Vermont DEC, all areas of the solar site have the potential for ground disturbance under the stormwater permit due to driving vehicles or other activities during construction. The project will limit the disturbance to the extent practical. For the State construction stormwater discharge permit we will consider the entire site disturbed.	±11.60
TOTAL PRIME AG SOILS WITHIN PROJECT LOD	±1.80
TOTAL PRIME AG SOILS DISTURBED FROM EXCAVATION Installation of Underground Power, Gravel Access Drive	±0.10

NOTES ON DISTURBANCES OF PRIME AGRICULTURAL SOILS (PAS)

- DISTURBANCES TO PAS FROM THE INSTALLATION OF PROJECT ACCESS ROAD WILL BE STOCKPILED IN THE PRIMARY AGRICULTURAL STORAGE AREA ON THE SITE.
- SOIL EXCAVATION FOR CONDUIT TRENCHING WILL BE EXCAVATED AND BACKFILLED IN THE SAME SOIL LAYERS, AND WILL NOT REQUIRE SOIL STORAGE STOCKPILES.

