

SUNRISE SPRINGFIELD CHURCH ROAD, LLC PROJECT

MERCER COUNTY, PENNSYLVANIA PRELIMINARY SITE PLANS

DEVELOPMENT TEAM

OWNER
SUNRISE SPRINGFIELD CHURCH ROAD, LLC
ATTN: MANAGER OF RENEWABLES DEVELOPMENT
100 CRESCENT CT., SUITE 700
DALLAS, TX 75201
PHONE: 412.527.5072
CONTACT: DAVID HOMMRICH

CIVIL ENGINEER/LANDSCAPE ARCHITECT/SURVEYOR

ATWELL, LLC
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
PHONE: (630) 577-0800
CONTACT: KYLE WOOD, P.E.

GOVERNING AGENCIES

MERCER COUNTY

5 CT HOUSE
MERCER, PA 16137
PHONE: (724)-662-3800

JACKSON TOWNSHIP

PO BOX 92
JACKSON CENTER, PA 16145
PHONE: (724)-662-2937

FLOODPLAIN NOTE

PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) MAP NO. 42085C0245D (DATED 06/09/2014), THERE IS NO FLOODPLAIN FOOTPRINT ON THE PROPERTY.

WETLANDS

WETLANDS DO APPEAR TO BE LOCATED ON THE SITE. THE PROJECT WILL AVOID WETLAND IMPACTS. THE PROJECT WILL NOT DISTURB SOILS WITHIN 5 FEET OF ANY JURISDICTIONAL WETLAND.

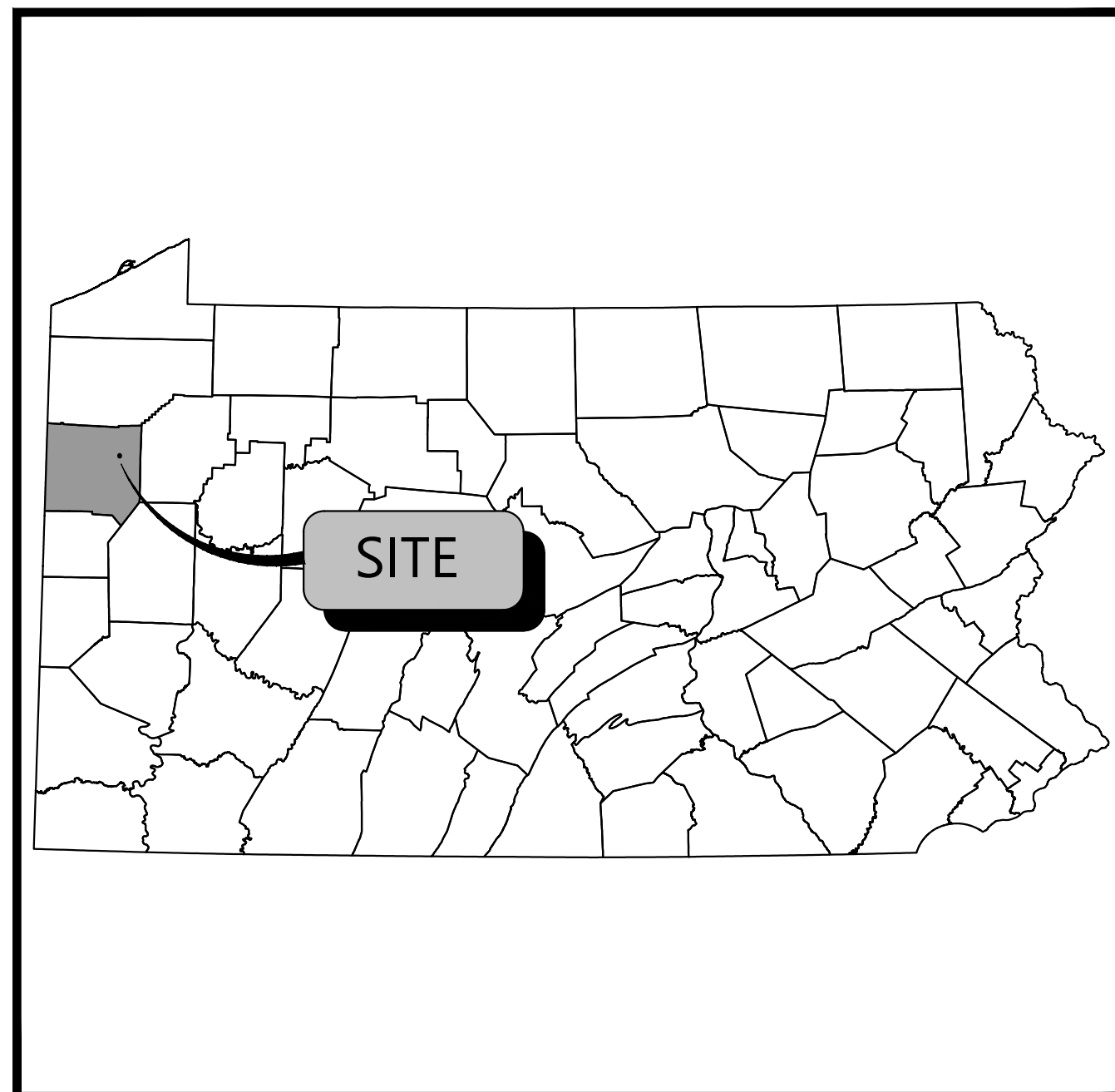
NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FRANCHISE UTILITY (GAS, ELECTRIC, DATA) CONSTRUCTION, REMOVAL, AND RELOCATIONS. ANY FRANCHISE UTILITY INFORMATION ON THESE PLANS IS SHOWN FOR REFERENCE ONLY.

PROJECT NARRATIVE

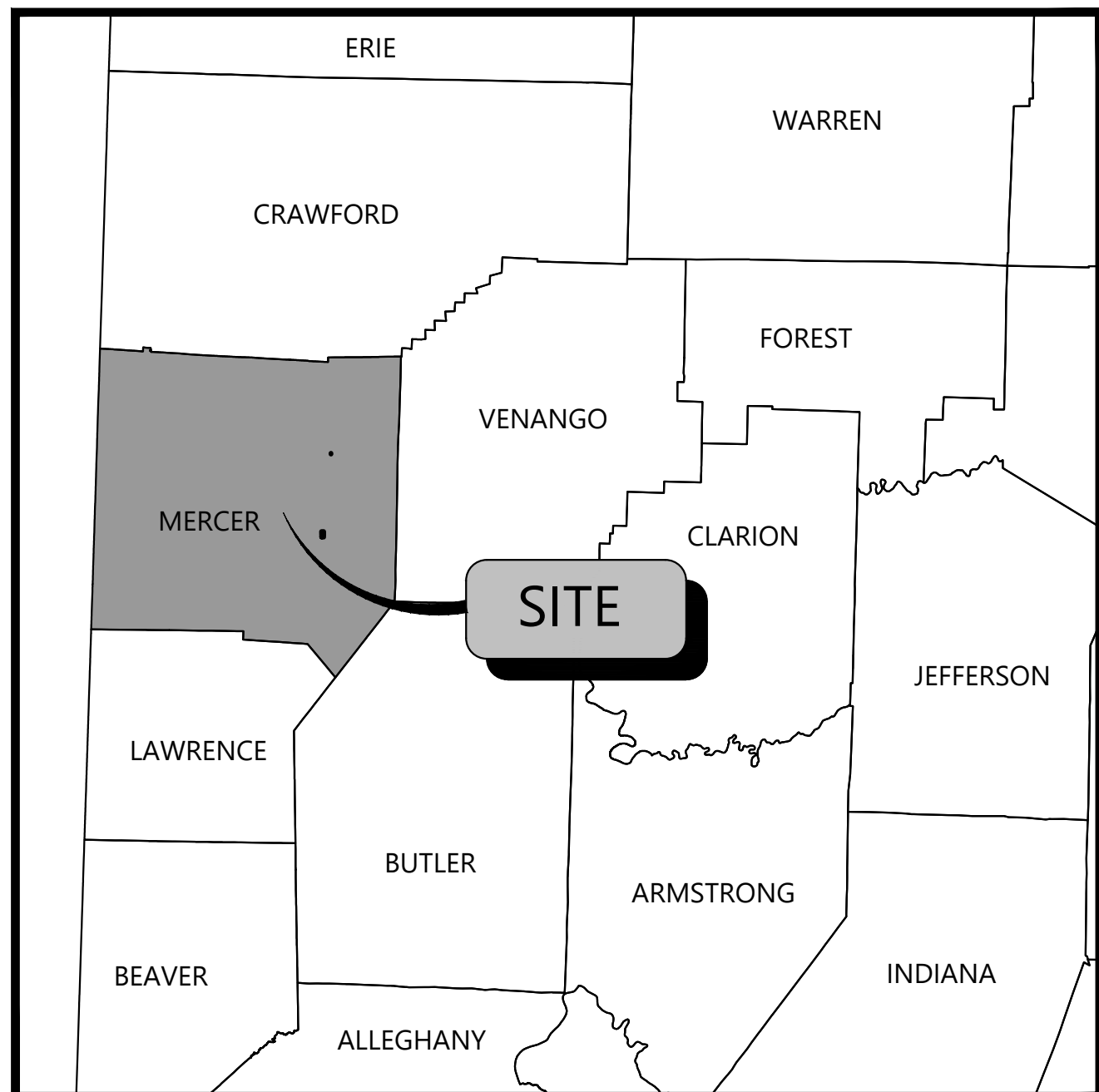
THE PROJECT CONSISTS OF A PROPOSED 3.0 MW AC SOLAR ARRAY. THE PROJECT WILL TIE INTO THE EXISTING PENN POWER STONEBORO SUBSTATION LOCATED AT 1330 MERCER STREET, STONEBORO, PA 16153.

SHEET INDEX	
Sheet Number	Sheet Title
C-001	COVER SHEET
C-200	SITE PLAN



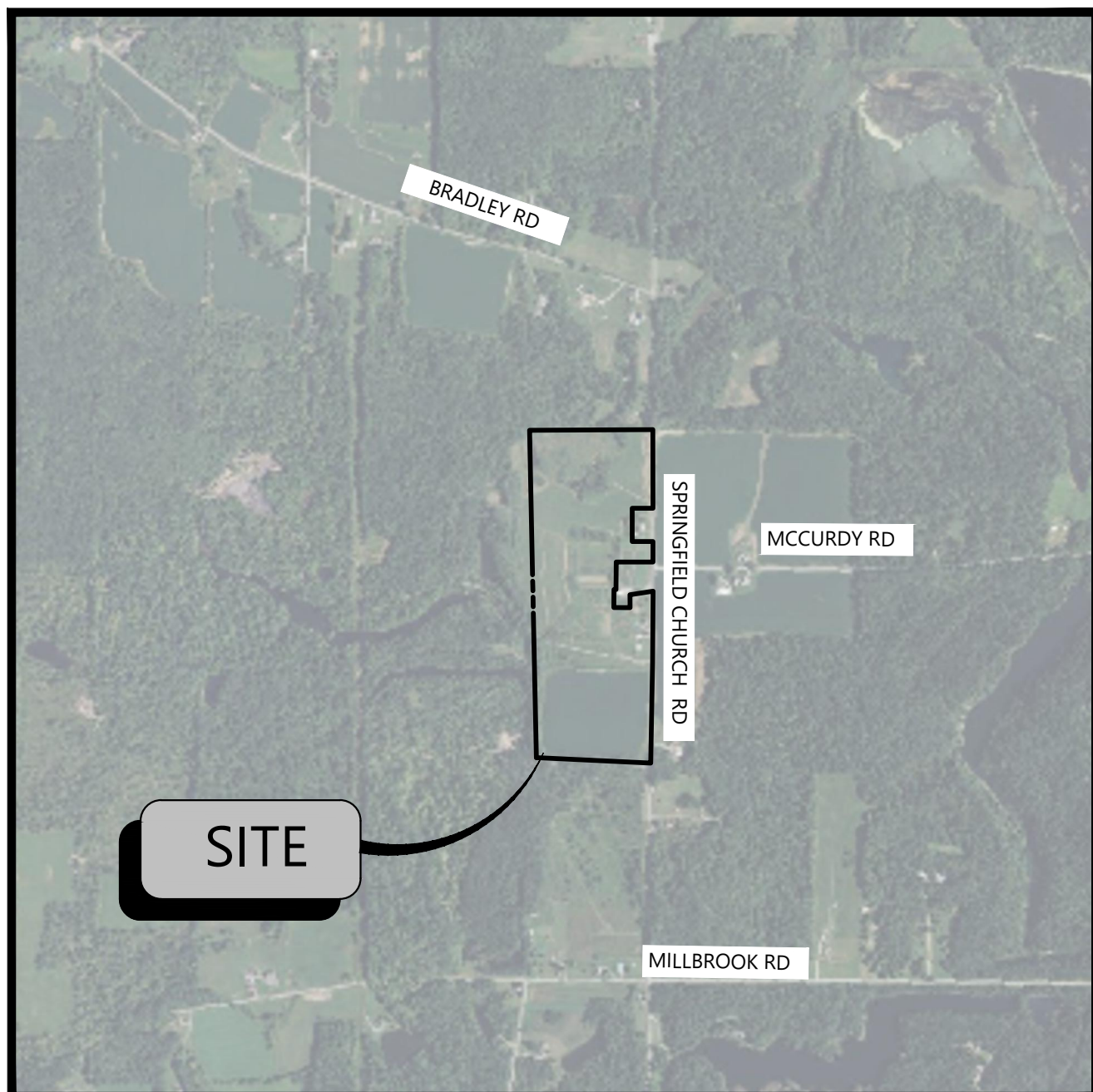
PENNSYLVANIA

NOT TO SCALE




MERCER COUNTY

NOT TO SCALE



VICINITY MAP

NOT TO SCALE




Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES OR OF ANY OTHER PERSONS.

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**24 HOUR
EMERGENCY CONTACT**



ATWELL
866.850.4200 www.atwell-group.com
1800 PARKWAY PLACE, SUITE 700
NAPERVILLE, IL 60563
COA# PEF005804

SUNRISE SPRINGFIELD CHURCH ROAD, LLC PROJECT

JACKSON TOWNSHIP

MERCER COUNTY, PENNSYLVANIA

CLIENT: SUNRISE SPRINGFIELD CHURCH ROAD, LLC

DATE: 03/01/2023

REVISIONS

SCALE: AS SHOWN

DRAWN BY: MM

CHECKED BY: MK

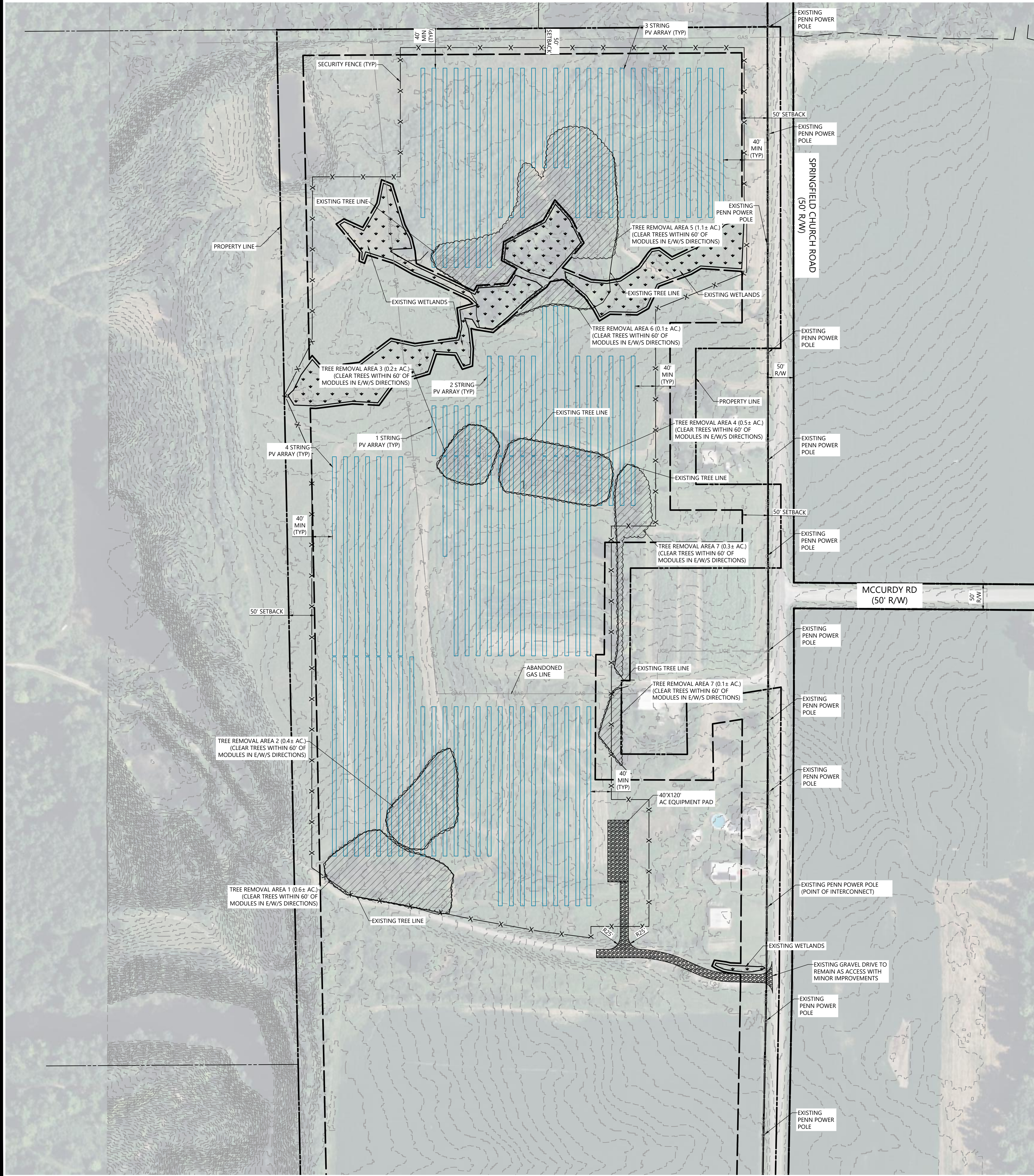
PROJECT MANAGER: KW

JOB #: 23000126-04

FILE CODE: ##

SHEET NO: C-001

CAD FILE: 0000 COVER



SITE DEVELOPMENT NOTES:

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AS WELL AS COORDINATE WITH THE OWNER, DEVELOPER AND ENGINEER, AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
3. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
5. EXISTING TREES AND SHRUBS OUTSIDE THE FENCE LINE SHALL NOT BE CLEARED, UNLESS OTHERWISE NOTED. ALL EXISTING VEGETATION INSIDE FENCE LINE SHALL BE CLEARED AND GRUBBED.
6. UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES; THEREFORE, THEY ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "811" OR EQUIVALENT AND THE OWNER/DEVELOPER TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES AND THE OWNER ARE PROPERLY NOTIFIED IN ADVANCE.
7. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS TO BE PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER/DEVELOPER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
8. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES, GRADES AND OTHER SPECIFIC REQUIREMENTS OR SPECIFICATIONS FOR THE PROJECT AS SHOWN ON THE PLANS.
9. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER/DEVELOPER AND ENGINEER FOR RESOLUTION.
10. CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.
11. PITCH EVENLY BETWEEN SPOT GRADES, AS NEEDED.
12. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.
13. THE CONTRACTOR SHALL MAINTAIN EXISTING SITE SURFACE DRAINAGE PATTERNS.

SETBACK TABLE			
	FRONT	SIDE	REAR
SOLAR SETBACK	50'	50'	50'
ACHIEVED SETBACK	80'	80'	85'
EXISTING ZONING	RA - RESIDENTIAL/AGRICULTURAL		
PROPOSED ZONING	RA - RESIDENTIAL/AGRICULTURAL		

EROSION CONTROL AND SEDIMENTATION NOTES:

1. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING ENTIRE CONSTRUCTION PERIOD.
2. ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.
3. ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.
4. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.
5. SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.
6. ALL TOPSOIL ENCOUNTERED WITHIN THE LIMITS OF THE PROPOSED PERMANENT AND TEMPORARY GRAVEL ROADS, EQUIPMENT PAD AREA, AND AREAS OF CUT AND FILL SHALL BE STRIPPED AS NEEDED AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE RE-SPREAD ON SITE AS INDICATED ON PLANS. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
7. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER/DEVELOPER OR OWNER'S REPRESENTATIVE.
8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
9. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENuded SURFACE WHICH WILL BE EXPOSED FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED AS REQUIRED.
10. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION TO ENSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT.
11. DUST SHALL BE CONTROLLED, AS NEEDED, BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER/DEVELOPER OR REPRESENTATIVE.
12. CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM MIGRATING OUTSIDE THE LIMIT OF WORK.
13. ADDITIONAL EROSION CONTROL SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER/DEVELOPER OR REPRESENTATIVE.
14. CLEAN AND MAINTAIN EROSION CONTROL BARRIER, AS REQUIRED, DURING CONSTRUCTION OPERATIONS TO ENSURE ITS CONTINUED FUNCTIONALITY.
15. OVERALL SITE DEVELOPMENT WILL MAINTAIN EXISTING TOPOGRAPHY AND STORM WATER DRAINAGE PATTERNS.
16. THE OVERALL DEVELOPMENT WILL BE RE-SEED, AS REQUIRED, TO DEVELOP A PERMANENT VEGETATIVE COVER AS INDICATED ON THE LANDSCAPE PLAN. COVER CROP OR OTHER TEMPORARY STABILIZATION WILL BE IMPLEMENTED IN THE INTERIM.
17. THE CONTRACTOR SHALL REMOVE ALL NON-BIODEGRADABLE TEMPORARY EROSION CONTROL BARRIERS AFTER RE-VEGETATION OF DISTURBED AREAS IS STABILIZED.

SURVEY NOTES

1. COMPARE ALL DISTANCES AND POINTS IN FIELD AND REPORT ANY DISCREPANCIES IN SAME TO SURVEYOR AT ONCE.
2. UTILITIES SHOWN HEREON ARE BY VISIBLE LOCATION OF ABOVE GROUND STRUCTURES AND PROVIDED MAPS. UNDERGROUND UTILITIES MAY EXIST THAT ARE NOT SHOWN HEREON.
3. CALL 811 ("COMMON GROUND ALLIANCE" NATIONAL UNDERGROUND UTILITY LOCATOR SERVICE) FOR FIELD LOCATION OF UNDERGROUND UTILITY LINES PRIOR TO ANY DIGGING OR CONSTRUCTION.
4. NO DIMENSIONS SHOULD BE ASSUMED BY SCALING.
5. ALL RIGHT-OF-WAY WIDTHS SHOWN ARE APPROXIMATE; NO FORMAL DEDICATION DOCUMENTS WERE PROVIDED TO THE SURVEYOR. THE PUBLIC RIGHT-OF-WAY SHOWN HEREON WAS PROVIDED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PENNDOT).
6. HORIZONTAL PROJECTION: PENNSYLVANIA STATE PLANE, NORTH ZONE, US FOOT (NAD 83).
7. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

BENCHMARKS AND CONTROL

BASIS OF BEARING:
PENNSYLVANIA STATE PLANE NORTH ZONE (NAD83)

SOURCE BENCHMARK:
PT 4 SET CAPPED IRON ROD ON THE SOUTH SIDE OF MCCURDY ROAD (TOWNSHIP ROAD 502), 16.5 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT, APPROXIMATELY 264 FEET EAST OF DRIVEWAY TO 30 MCCURDY ROAD, APPROXIMATELY 76 FEET NORTHEAST OF GARAGE CORNER AND APPROXIMATELY 800 FEET EAST OF THE MCCURDY ROAD AND SPRINGFIELD CHURCH ROAD INTERSECTION.

ELEVATION: 1386.26 (NAVD88)
NORTHING: 406292.80 (NAD83)
EASTING: 1316429.58 (NAD83)

LEGEND:

- PROPOSED SOLAR ARRAY
- PROPOSED EQUIPMENT PAD
- PROPOSED FENCE
- EXISTING TELEPHONE PED
- EXISTING O.H. POWERLINE
- EXISTING STREAM (USACE JURISDICTIONAL)
- SECTION CORNER
- FOUND MONUMENT AS DESCRIBED
- SITE CONTROL POINT
- EXISTING UTILITY POLE
- EXISTING CULVERT
- EXISTING TREELINE
- EXISTING TREE REMOVAL AREA
- EXISTING PROPERTY LINE
- EXISTING PUBLIC ROAD
- EXISTING CULVERT
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR

SITE DATA

CAPACITY AC: 3.0 MW
CAPACITY DC: 4.2 MW
DC/AC RATIO: 1.4

PV MODULES:
MANUFACTURER: TDP 2.0 ZNSHINE
MODEL: ZXM7-SHLD144
NAMEPLATE: 540W
QUANTITY: 7,722

INVERTERS:
MANUFACTURER: TBD
MODEL: TBD
NAMEPLATE: 3.0MVA
QUANTITY: 20 (150 kW/INVERTER)

ARRAY:
MANUFACTURER: SOLAR FLEXRACK
TYPE: HORIZONTAL SINGLE AXIS
TILT: E-W ±55°
PITCH: 21-6°
GCR: 35%
1 STRING (26 MODULES): 5
2 STRING (52 MODULES): 12
3 STRING (78 MODULES): 32
4 STRING (104 MODULES): 43

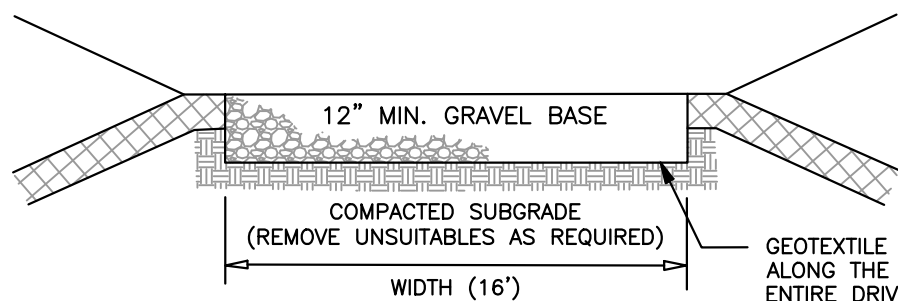
PROJECT INFORMATION

EXISTING BOUNDARY PREPARED BY:
ATWELL, LLC (DATED 02/01/2023)
WETLANDS AND WATERCOURSES DELINEATED BY:
GAILEY ENVIRONMENTAL, LLC (DATED 04/28/2022)
TOPOGRAPHIC INFORMATION PREPARED BY:
ATWELL, LLC (DATED 02/01/2023)

PID NO: 13-153-002

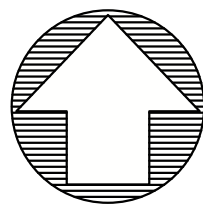
JURISDICTION: MERCER COUNTY
ZONING DISTRICT: RA - RESIDENTIAL/AGRICULTURAL
CURRENT LAND USE: AGRICULTURAL
FLOOD HAZARD: ZONE X - PER FIRM MAP NO. 42085C0245D (DATED 06/09/2014)

PROPOSED OVERALL SITE AREA	54.1 +/- AC.
PROPOSED PROJECT AREA	25.7 +/- AC.
PROPOSED DISTURBED AREA	3.6 +/- AC.



- NOTES:
1. REMOVE TOPSOIL AND ALL UNSUITABLE MATERIAL AS REQUIRED AND REPLACE WITH GRAVEL.
 2. ACCESS DRIVES TO SLOPE IN THE DIRECTION OF THE EXISTING GRADE AT A MINIMUM OF 2.0% DRIVEWAY SHALL BE GRADED TO ALLOW STORMWATER TO SHEET ACROSS IT AND TO PREVENT PUDDLING.

ACCESS DRIVE CROSS SECTION
NOT TO SCALE



811
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24 HOUR
EMERGENCY CONTACT

ATWELL
866.850.4200 www.atwell-group.com
1800 PARKWAY PLACE, SUITE 700
MARETTA, PA 15601
COA# PEF005804

SUNRISE SPRINGFIELD CHURCH
ROAD, LLC
PROJECT
JACKSON TOWNSHIP
MERCER COUNTY, PENNSYLVANIA

CLIENT: SUNRISE SPRINGFIELD CHURCH ROAD, LLC
DATE: 03/01/2023
REV. A
PRELIMINARY PLAN SUBMITTAL

REVISIONS

0 50' 100'
SCALE: 1"=100'

DRAWN BY: MM
CHECKED BY: MK
PROJECT MANAGER: KW
JOB #: 23000126-04
FILE CODE: ##
SHEET NO. C-200