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July 29, 2022

Ms. Tanowa Troupe, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th Floor
Columbus, OH 43215

Re: Case No. 20-931-EL-BGN
In the Matter of the Application of Fox Squirrel Solar, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Madison County, Ohio.

Case No. 21-1031-EL-BGA
In the Matter of the Application of Fox Squirrel Solar, LLC for a Boundary Amendment to it Certificate in Case No. 20-931-EL-BGN

Compliance with Condition 4 – Detailed Engineering Drawings

Dear Ms. Troupe:

Fox Squirrel Solar, LLC ("Applicant") is certified to construct a solar-powered electric generation facility in Madison County, Ohio, in accordance with the orders issued by the Ohio Power Siting Board ("OPSB") in the above-referenced cases.

At this time, the Applicant is filing the attached set of detailed engineering drawings in compliance with Condition 4 of the OPSB's July 15, 2021 Order in Case No. 20-931-EL-BGN. The drawings were provided as geographically-referenced electronic data. This information was provided to OPSB Staff on July 29, 2022.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik
Christine M.T. Pirik (0029759)
Matthew C. McDonnell (0090164)
Dickinson Wright PLLC
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Attorneys for Fox Squirrel Solar, LLC

cc: Grant Zeto
Mark Bellamy
Theresa White
Randall Schumacher
Jon Pawley

4895-9005-8796 v1 [95732-2]

90% DESIGN SUBMITTAL

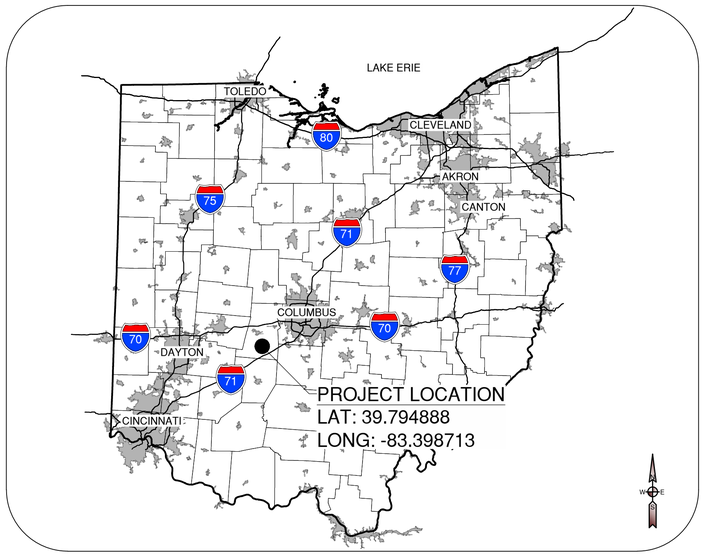
CIVIL CONSTRUCTION DRAWINGS

FOR

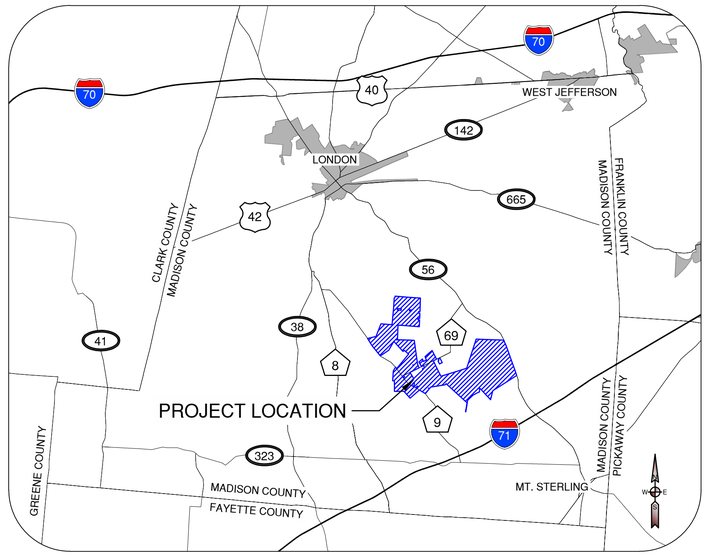
FOX SQUIRREL SOLAR PROJECT

577 MWAC

MADISON COUNTY, OHIO
JUNE, 2022



STATE MAP



VICINITY MAP

PROJECT DATA INFORMATION

BASE FILE	FILE NAME	PROVIDER	DATE
GEOTECHNICAL	Geotechnical Engineering Report.pdf	OLSSON	06/26/2022
TOPOGRAPHY	WSB_Fox_Squirrel_Spot_Elevations_OHSPs_USft.shp; WSB_Fox_Squirrel_01-22.shp	WSB	01/17/2022
BUILDABLE AREA	BL_v27_v28_and_Constraints_Fox_Squirrel_20220329.dwg	EDF RENEWABLES	04/05/2022
ALTA SURVEY	ALTA_WSB_Fox Squirrel-20210712.dwg	WSB	01/17/2022
ELECTRICAL	FSSP-X-ELEC.dwg	RRC COMPANIES	04/07/2022
HYDROLOGY	Prelim_Exist_100-year Depth_Fox Squirrel.tif Post Hydrology 100-year Depth (Pending)	WEST CONSULTANTS INC.	06/20/2022
FLOODPLAIN	Flood_Plain_100yr_FEMA_export_20200811.shp	EDF RENEWABLES	012/06/2021

PROJECT OWNER/DEVELOPER
EDF RENEWABLES, INC.
15445 INNOVATION DR
SAN DIEGO, CA 92128

SWPPP PREPARER
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PHONE: 701.280.8500

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SAN DIEGO, CA 92126
CONTACT: DANIEL FISHER
PHONE: 858.335.7843

EPC CONTRACTOR
BLATTNER ENERGY, INC.
392 CO RD 50
AVON, MN 56310
CONTACT: DOMINIC NELSON
PHONE: 320.356.7351

TO BE UPDATED FOR IFC SUBMITTAL

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PHONE: 405.607.6887

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FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

COVER SHEET

REVISION:
C
DRAWING:
FSSP-SG0-G-CVR0-G001

INDEX OF DRAWINGS

DRAWING #	SHEET TITLE	REV
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FSSP-SG0-C-GRD3-P006	SITE GRADING PLAN 6	C
FSSP-SG0-C-GRD3-P007	SITE GRADING PLAN 7	C
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FSSP-SG0-C-GRD0-D003	CONSTRUCTION DETAILS	C
FSSP-SG0-C-GRD0-D004	CONSTRUCTION DETAILS	C
FSSP-SG0-C-GRD0-D005	CONSTRUCTION DETAILS	C
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FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

Rev.	Date	Description	By
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Project Number: 21.00649
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Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

INDEX OF DRAWINGS

REVISION:
C

DRAWING:
FSSP-SG0-G-IDX0-G001

BILL OF MATERIALS - FOX SQUIRREL																
	PAY ITEM	UNFACTORED QTY	FACTOR	QUANTITY	UNIT	REV A								SPECIFICATION	NOTES
						0	1	2	3	30%	60%	90%	IFC (1)	IFC (2)		
EARTHWORK	Clear & Grub	9	1	9	AC							9				Tree'ed areas to be harvesting/grubbed
	Vegetation/Shallow Root System	0	1.28	0	AC							0				
	Cut	240,269	1.31	314,752	CY							314,752			+/-3" grading tolerance, largest cut 4.4'	PV array cut (225,148 CY); Inverter Skids cut (1,089 CY)
	Fill	242,537	1	242,537	CY							242,537			+/-3" grading tolerance, largest fill 4.6'	PV array (229,443 CY); Inverter Skids (9,510 CY)
	Topsoil (array) Cut	83,362	1.28	106,703	CY							106,703				Topsoil depth 4" - Surface Area - see grading exhibit - Assumes all areas with greater than a 6" cut or fill
	Topsoil (road) Cut	47,379	1.28	60,645	CY							60,645			20' width across length of road + Pull outs+ 22' width for substation access road	Topsoil depth 4"
	Topsoil (inverters) Cut	2,541	1.28	3,252	CY							3,252				Topsoil depth 4"
	Topsoil (Laydown) Cut	5,250	1.28	6,720	CY							6,720				Topsoil depth 4"
	Topsoil (road) Structural Fill	0	1.28	0	CY							0				Topsoil stripping and aggregate depth are the same
	Laydown Yard Cut	8,145	1.31	10,670	CY							10,670				Includes Truck Staging Road; Excludes Topsoil. Approximated, pending final location approval.
	Laydown Yard Fill	7,459	1	7,459	CY							7,459				Includes Truck Staging Road; Excludes Topsoil. Approximated, pending final location approval.
	Sediment Trap Cut	42,325	1.31	55,446	CY							55,446			Permanent/Temporary, Area, Quantity Dimensions	
	Retention Ponds/Sediment Basin Cut	0	1.31	0	CY							0			Permanent/Temporary, Area, Quantity Dimensions	
	Retention Ponds/Sediment Basin Fill	0	1	0	CY							0				
LAYDOWN	Laydown Yard Area	9.8	1	10	AC							10			6.191 acres available	Excludes any potential laydown yard expansion areas
	Laydown Yard Depth	4	1	4	IN							4				no cement stabilized Laydown yard
TRUCK STAGING	Truck Staging Area	3	1	3	AC							3				Staging area around the laydown yard for trucks to deliver and park
	Truck Staging Depth	5	1	5	IN							5				
ROADS	PV Road Length	175,475	1	175,475	FT							175,475				
	PV Road Width	16	1	16	FT							16				
	PV Road Depth	4	1	4	IN							4				
	Substation Road Length	5,757	1	5,757	FT							5,757				
	Substation Road Width	20	1	20	FT							20				
	Substation Road Depth	4	1	4	IN							4				
	Perimeter Road Length	0	1	0	FT							0				
	Perimeter Road Width	0	1	0	FT							0				
	Perimeter Road Depth	0	1	0	IN							0				
	Public Road Improvement Length	0	1	0	FT							0				
	Public Road Improvement Width	0	1	0	FT							0				
	Public Road Improvement Depth	0	1	0	IN							0				
	Low Water Crossings Length	475	1	475	FT							475				
	Low Water Crossings Width	16	1	16	FT							16				
	Low Water Crossings Depth	6	1	6	IN							6				
	Rock Construction Entrances	15	1	15	EA							15				
	Road Area Within Site	329,554	1	329,554	SY							329,554				Site roads and Substation Road; 1,473 SY for Pull Outs
	Subgrade Cement Stabilization	342,477	1.1	376,724	SY							376,724				Access Roads and Truck Staging area; Pull outs have not been included
VOLUMES	Laydown Area	5,250	1.15	6,038	CY							6,038				
	Truck Staging Area	1,798	1.15	2,068	CY							2,068				
	PV Road Aggregate	34,662	1.15	39,861	CY							39,861				
	Substation Road Aggregate	1,422	1.15	1,635	CY							1,635				
	Perimeter Road Aggregate	0	1.15	0	CY							0				
	Public Road Improvements	0	1.15	0	CY							0				
	Inverter Skid Aggregate	763	1.15	877	CY							877			Aggregate depth equal to PV road depth	4.80 cy per each Inverter
	Site Entrances	750	1.15	863	CY							863			50 cy per site entrance	
	Check Dams	504	1.15	580	CY							580				
	Low Water Crossings	141	1.15	162	CY							162				
	Asphalt Pavement	0	1.15	0	SY-IN							0				
AGGREGATE	TONS per Cubic Yard	1.7	1	1.7	TONS/CY							2				
	Laydown Area Aggregate	8,925	1.15	10,264	TONS							10,264				
	Truck Staging Aggregate	3,057	1.15	3,515	TONS							3,515				
	PV Road Aggregate	58,925	1.15	67,764	TONS							67,764				
	Substation Road Aggregate	2,417	1.15	2,779	TONS							2,779				
	Inverter Skid Aggregate	1,297	1.15	1,492	TONS							1,492				
	TOTAL (Aggregate)	74,620	1.15	85,813	TONS							85,813			ODOT 703.17	
	Entrance Rip Rap	1,275	1.15	1,466	TONS							1,466			1" - 3" crushed roack or equal (per Detail ECD-505)	
	Low Water Crossings	239	1.15	275	TONS							275			3" - clean graded aggregate (per Detail SSR-111)	
	Rip Rap (Misc.)	250	1.15	288	TONS							288			10 tons per culvert - 50 cy per rock const. entrance For spillway and outlet - D-50 6" Rip Rap	
	Check Dams	856	1.15	985	TONS							985				
	TOTAL (Rip Rap)	1,346	1.15	1,547	TONS							1,547				

* BOM EXCEL SPREADSHEET (FSSP_Civil BOM_UEI_20220627) SUBMITTED WITH SUBMITTAL PACKAGE GOVERNS OVER THE BOM ON THIS SHEET.

FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

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	PAY ITEM	UNFACTORED QTY	FACTOR	QUANTITY	UNIT	REV A									SPECIFICATION	NOTES
						0	1	2	3	30%	60%	90%	IFC (1)	IFC (2)		
BMPs	Silt Fence	155,461	1	155,461	LF							155,461				
	Fiber Roll	31,932	1	31,932	LF							31,932				
	Seeding	2,894	1	2,894	AC							2,894			Refer to Pollinator and Non-Pollinator seed mixes listed on Civil Plans sheet FSSP-SG0-C-GRD0-G003	Non-Pollinator Seeding (within security fence) = 2,424.4 Non-Pollinator Seeding (outside security fence) = 436.6 Pollintaor Seeding (first 10' inside security fence) = 32.82
	Sediment Basins	0	1	0	EA							0			Permanent/Temporary, Area, Quantity, Dimensions	
	Sediment Traps	27	1	27	EA							27				
	Triple Stacked Fiber Roll Outlet	2,700	1	2,700	LF							2,700				Assumed 70 LF OUTLET AT Modified Sediment Trap (per Detail ECD-550)
	Erosion Control Blanket	17	1	17	SY							17				Alternate outlet protection for HDPE culverts
	Riser Structures	0	1	0	EA							0			## Assumed : See detail below. CMP - 18" dia 5' tall ; Antiflotation - 23"x23"x18"	
	Check Dams	34	1	34	EA							34			4" clear or washed stone (per Detail ECD-506)	Assumed 100 LF check dam (per Detail ECD-506)
MISC	Security Fence	145,623	1	145,623	FT							145,623				Specialized ditch crossing structures located along County ditch (per Detail FGD-621)
	Gates	28	1	28	EA							28			20ft gate for 16ft roads, (per Civil Detail FGD-622)	
	Culverts - 18" HDPE	17	1	17	EA							17				See culvert crossing schedule on Sheet FFSP-SG0-C-GRD0-G005 for more details. Total: (12) 18" HDPE culverts - 31LF EA. And (2) 18" HDPE culverts - 75LF EA. Estimated total culvert length: 522' length of 18" culvert and 694' length of (3) Temp 18" culverts at Laydown Yard and Truck Staging Area
	Culverts - 48" CMP	8	1	8	EA							8				See culvert crossing schedule on Sheet FFSP-SG0-C-GRD0-G005 for more details. Total: (8) 48" CMP culverts - 50LF EA. Estimated total culvert length: 400' length of 48" culvert
	Water tank for fire suppression	0	1	0	GAL							0				
	Mowing	0	1	0	AC							0				Not anticipated at this time
	Dust Palliative Roads	329,554	1	329,554	SY							329,554				
	Landscaping - slatted fence	0	1	0	FT							0				
	Geotech Fabric - Mirafi 270N - Entrances	1,667	1.1	1,834	SY							1,834			Geotech Fabric for Entrances	LOCATION - INCLUDE SITE ENTRANCES AS WELL?
	Geotech Fabric - Mirafi 270N - LWC	844	1.1	929	SY							929			Geotech Fabric for LWC	LOCATION - INCLUDE SITE ENTRANCES AS WELL?
DEMO	Remove Existing Trail	5	1	5	MI							5				Removal of existing trail roads onsite as shown on the demolition plans; Avg 12ft wide

* BOM EXCEL SPREADSHEET (FSSP_Civil BOM_UEI_20220627) SUBMITTED WITH SUBMITTAL PACKAGE GOVERNS OVER THE BOM ON THIS SHEET.

FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

Rev.	Date	Description	By
A	05/10/2022	60% DESIGN SUBMITTAL	LEJ
B	06/27/2022	90% DESIGN SUBMITTAL	TLB

EDF renewables
15445 Innovation Dr
San Diego, CA 92128

BLATTNER ENERGY
392 Co. Rd. 50,
Avon, MN 56310

OHIO811 Before You Dig

NAD 83 Ohio State Planes, South Zone, US Foot

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Ulteig
3350 38th Avenue South
Fargo, North Dakota 58104
Phone: 701.280.8500
Fax: 701.237.3191
www.ulteig.com

Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

BILL OF MATERIALS

REVISION: B

DRAWING: FSSP-SG0-G-BOM0-G002

G:\2021\21.00649\Drawings\PV Plant\30 Civil\01 - Drawings\01 - Plan Set Drawings\21.00649_Fox Squirrel_CVR.dwg BOM0-G002

GENERAL NOTES

1. THE PLANS UTILIZE HORIZONTAL DATUM IN GRID COORDINATES: NAD83 OHIO STATE PLANES, SOUTH ZONE, US FOOT; VERTICAL DATUM: NAVD 88.
2. GROUND SURFACE CONTOURS AND ELEVATIONS ARE PROVIDED BY WSB. ONLY .SHP AND .DWG FILES WERE PROVIDED FOR USE AND NO DATE WAS INCLUDED WITHIN THE PROJECT FILES.
3. THE TOPOGRAPHIC SURVEY OF THE PROJECT SITE WAS COLLECTED BY WSB. ONLY .SHP AND .DWG FILES WERE PROVIDED FOR USE AND NO DATE WAS INCLUDED WITHIN THE PROJECT FILES.
4. THE GEOTECHNICAL REPORT FOR THE PROJECT WAS COMPLETED BY OLSSON ON OCTOBER 4, 2021 (OLSSON PROJECT NO. 020-32750)
5. THE PROJECT ALTA SURVEY UTILIZED THROUGHOUT THE DESIGN WAS COMPLETED BY WSB, PROVIDED TO BLATTNER ENERGY THROUGH EDF RENEWABLES. THE ALTA PROVIDED WAS STAMPED PRELIMINARY (NO DATE WAS INCLUDED IN THE PLANS) AND FILE WAS DATED SEPTEMBER 1, 2021. PROPERTY LINES, ROW LINES, AND EASEMENTS AND OTHER LINEWORK FROM THE ALTA SURVEY WERE USED TO COMPLETE THE FOLLOWING DESIGN.
6. ELECTRONIC FILES OF THE CONSTRUCTION DRAWINGS ARE AVAILABLE UPON REQUEST BUT ARE TO BE USED AT THE RISK OF THE CONTRACTOR. FINAL PLANS SHOULD BE USED TO VERIFY ALL ELECTRONIC DATA USED FOR CONSTRUCTION. IF ANY DISCREPANCIES ARE NOTICED BETWEEN PLANS AND ELECTRONIC DESIGN FILES THE ENGINEER OF RECORD SHOULD BE NOTIFIED IMMEDIATELY.
7. WHERE SURVEY MONUMENTS ARE ENCOUNTERED, THE EDF RENEWABLES SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. IF MONUMENT CANNOT BE AVOIDED, THE CONTRACTOR SHALL NOT REMOVE THE MONUMENT UNTIL THE EDF RENEWABLES, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED AND DOCUMENTED ITS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING DAMAGED PROPERTY MARKERS AND MONUMENTS.
8. THE CONTRACTOR SHALL NOTIFY OHIO STATE ONE CALL AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
9. THE CONTRACTOR AND/OR EDF RENEWABLES SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES VIA ONE CALL PRIOR TO CONSTRUCTION. IF UTILITIES ARE DETERMINED TO EXIST THAT ARE NOT SHOWN ON THE PLANS THE ENGINEER SHALL BE CONTACTED IMMEDIATELY. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND RELOCATE AS REQUIRED IN COORDINATION WITH UTILITY OWNER AND LANDOWNER.
10. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ANY APPLICABLE UTILITY COMPANIES POTENTIALLY IMPACTED BY PROJECT CONSTRUCTION ACTIVITIES.
11. CONTRACTOR SHALL VERIFY CROSSING DESIGNS WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION AND COORDINATE CONSTRUCTION WITH THE UTILITY COMPANY.
12. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER.
13. ANY STRUCTURES REMOVED OR RELOCATED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, LIGHTING, ETC.) SHALL BE REPLACED BY THE CONTRACTOR TO THE EXISTING CONDITION AT THE TIME OF REMOVAL, UNLESS OTHERWISE DIRECTED BY THE EDF RENEWABLES.
14. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE, EROSION CONTROL BMPS, AND MINIMIZING PONDING THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES.
15. THE CONSTRUCTION OF THE ROADS AND EXCAVATING AREAS NEEDED TO BE GRADED MAY RESULT IN EXCESS MATERIAL. THE CONTRACTOR SHALL DISPOSE OF THIS EXCESS MATERIAL IN AN APPROVED MANNER. EXCESS TOPSOIL SHALL BE PLACED ON LAND IMMEDIATELY ADJACENT TO WHERE THE TOPSOIL ORIGINATED. NO TOPSOIL SHALL LEAVE THE PROPERTY AND THE CONTRACTOR SHALL CREATE A FINAL SURFACE OF DISTURBED TOPSOIL WHICH SHALL BE SMOOTH AND FOLLOW THE NATURAL CONTOUR OF THE LAND.
16. ALL DISTURBED AREAS OUTSIDE THE FINAL ROADWAY SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. GRASSY AREAS SHALL BE SEEDED AND ESTABLISHED TO PRE-CONSTRUCTION CONDITION.
17. FINAL GRADING SHALL MEET REQUIREMENTS OF THE SINGLE-AXIS TRACKER RACKING.
18. ALL RESTORATION SHALL MEET REQUIREMENTS OF PROJECT SWP3 FOR SOIL DECOMPACTION.
19. UNLESS OTHERWISE NOTED, ROADS, TEMPORARY DISTURBANCE AREAS, ETC. SHALL BE CONSTRUCTED AT OR NEAR EXISTING GRADE. CONTRACTOR SHALL FOLLOW GEOTECHNICAL RECOMMENDATIONS AND REMOVE TOPSOIL, COMPACT & PROOF-ROLL SUBGRADE, AND PLACE AN AGGREGATE BASE COURSE WHERE SHOWN ON PLANS.
20. ALL CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN THE GRADING LIMITS AS SHOWN IN THE PLANS.
21. THE CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH THE GEOTECHNICAL REPORT(S) PREPARED FOR THE PROJECT, AND ADHERE TO THE RECOMMENDATIONS MADE FOR THE PROJECT. ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT AND RECOMMENDATIONS.
22. ACTIVITIES SUCH AS ROAD CONSTRUCTION, CUT AND FILL, TRENCHING, STAGING AREAS, AND ELECTRICAL EQUIPMENT AREA PREPARATION SHALL BE CONSIDERED AS GROUND DISTURBING ACTIVITIES. ADDITIONAL AREAS DISTURBED INCIDENTALLY BY EQUIPMENT MOVEMENT IN ADVERSE WEATHER SHALL BE CONSIDERED AS PART OF THE DISTURBANCE LIMITS AT TIME OF CONSTRUCTION AND SHALL BE STABILIZED IN ACCORDANCE WITH JURISDICTIONAL AND PROJECT PERMIT REQUIREMENTS, AND/OR AS OUTLINED IN THE DESIGN PLANS. ALL WORK COMPLETED OUTSIDE THESE LIMITS MUST BE DOCUMENTED AND CAPTURED IN THE RECORD DRAWINGS DEVELOPED AT THE END OF THE PROJECT.
23. DISPOSE OF ALL NON-ORGANIC MATERIALS LEGALLY OFF SITE AT A LICENSED WASTE MANAGEMENT FACILITY. BURNING OF WASTE MATERIAL IS NOT ALLOWED UNLESS CONTRACTOR ACQUIRES NECESSARY PERMITS AND AHJ APPROVALS PRIOR TO ACTIVITIES.

DESIGN CODES AND STANDARDS - NON EXCLUSIVE LIST

1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)—STANDARDS AND SPECIFICATIONS
2. AMERICAN CONCRETE INSTITUTE (ACI) - STANDARDS AND RECOMMENDED PRACTICES
3. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) – STANDARDS
4. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) - STANDARDS, SPECIFICATIONS, AND RECOMMENDED PRACTICES
5. AMERICAN WELDING SOCIETY (AWS)
6. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - NFPA70, NATIONAL ELECTRIC CODE (NEC)
7. UNDERWRITERS LABORATORIES, INC. (UL)
8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) – 29 CFR 1910
9. NATIONAL ENGINEERING HANDBOOK – PART 630 (HYDROLOGY)
10. AMERICAN NURSERY AND LANDSCAPE ASSOCIATION/AMERICAN NATIONAL STANDARDS INSTITUTE (ANLA/ANSI)
11. AOAC INTERNATIONAL
12. ASTM: UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) - FEDERAL SEED ACT
13. ARRAY TECHNOLOGIES SINGLE-AXIS TRACKER RACKING INSTALLATION REQUIREMENTS
14. REQUIREMENTS APPLICABLE TO THE PLANNED INSTALLATION
15. ODOT SPECIFICATIONS – OHIO STATE SPECIFIC REQUIREMENTS
16. MADISON COUNTY, OHIO – COUNTY SPECIFIC REQUIREMENTS

GRADING AND DRAINAGE

1. GRADING AND DRAINAGE NOTES
   a. CONTRACTOR SHALL NOT MAKE SIGNIFICANT ALTERATIONS TO DESIGN GRADES WITHOUT PRIOR APPROVAL FROM ENGINEER. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING GRADING OPERATIONS.
   b. ALL AREAS WITHIN THE PV ARRAY REQUIRED TO BE FILLED GREATER THAN 6 INCH DEPTH SHALL REMOVE TOP SOIL. ALL AREAS WITH THE PV ARRAY REQUIRED TO BE CUT GREATER THAN 6 INCH DEPTH. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE, SPREAD, WATER AND COMPLETE THE FILL IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.
   c. ALL SITE ACCESS ROADS SHALL BE STRIPPED OF VEGETATION AND TOPSOIL WITHIN THE STRUCTURAL ROAD CROSS SECTION PRIOR TO CHEMICAL STABILIZATION AND COMPACTION.
   d. GRADING CONTRACTOR SHALL COORDINATE THE GRADING OPERATION WITH THE UTILITY COMPANIES WITH REGARDS TO CONFLICTS REQUIRING REMOVAL/RELOCATION/ADJUSTMENT OF EXISTING UTILITIES (POWER POLES/UNDERGROUND CABLES, VAULTS AND BOXES) NECESSARY TO PERFORM THE SCOPE OF THE WORK.
   e. ALL NON-SUITABLE MATERIAL (MUCK, ROCK, PEAT, ETC.) SHALL BE REMOVED BELOW ANY NEW ACCESS ROADS, CUT/FILL GRADING AREAS, AND FACILITIES. ALL REMOVED MATERIAL SHALL BE STOCKPILED IN AN APPROVED ON-SITE LOCATION (NO TRUCKING OF MATERIAL) LOCATION BY THE EDF RENEWABLES AND/OR BLATTNER ENERGY.
   f. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED THROUGHOUT CONSTRUCTION AND POST-CONSTRUCTION. LOCAL PONDING MAY OCCUR OUTSIDE OF ROADWAYS, INVERTERS SUBSTATIONS, AND SHOULD BE AVOIDED WHERE POSSIBLE. IF INUNDATIONS ARE EXPERIENCED, GREATER THAN WHAT IS SHOWN IN THE SITE HYDROLOGY STUDY, THE ENGINEER SHALL BE NOTIFIED.
2. CULVERTS
   a. PROPOSED CULVERTS ARE SHOWN IN THE PLANS AND SIZING, MATERIAL TYPE, AND LOCATIONS HAVE BEEN INCLUDED IN THE DRAINAGE SCHEDULE FOR CULVERT LOCATIONS. CULVERTS PLANNED FOR PRIVATE AND INTERNAL ENTRANCES SHALL BE REINFORCED CONCRETE OR HDPE PIPE AND MEET HS-20 LOADING.
   b. IF CULVERT EXTENSIONS ARE REQUIRED FOR EXISTING STRUCTURE, THEY SHALL MATCH THE EXISTING PIPE SIZE AND MATERIAL. ANY TEMPORARY EXTENSIONS SHALL ALSO MEET HS-20 LOADING REQUIREMENTS.
   c. PERMANENT AND TEMPORARY DRAINAGE CULVERTS HAVE BEEN DESIGNED TO CONVEY STORM WATER FOR A MINIMUM 24-HR 10-YR STORM EVENT AND TO WITHSTAND A 24-HR 50-YR STORM EVENT WITHOUT MAJOR FAILURE.
   d. REUSED CORRUGATED METAL PIPE (CMP), REINFORCED CONCRETE PIPE (RCP) OR CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE) MAY BE USED AS TEMPORARY CULVERTS, AS NECESSARY. ALL CULVERTS USED FOR TEMPORARY CROSSINGS SHALL MEET HS-20 LOADING.
   e. ALL PERMANENT CULVERTS SHALL BE INSTALLED IN ACCORDANCE TO AHJ REQUIREMENTS WITHIN AHJ RIGHT-OF-WAYS.
   f. IT IS EXPECTED THAT CULVERTS SHALL OVERTOP DURING STORM EVENTS GREATER THAN 24-HR 10-YR EVENTS AND PERIODIC MAINTENANCE MIGHT BE REQUIRED DURING O&M PERIOD.
   g. MINIMUM CULVERT SIZE SHALL BE 18".

EARTHWORK

1. CLEARING AND GRUBBING
   a. THE CONTRACTOR SHALL BE REQUIRED AS NECESSARY TO FACILITATE CONSTRUCTION OPERATIONS, TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS SPECIFICATIONS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
   b. THE CONTRACTOR SHALL DISPOSE OF TREES, BRUSH, STUMPS, ROOTS, AND OTHER DEBRIS OR BYPRODUCTS BY CHIPPING OR MARKETING.
2. TOPSOIL STRIPPING
   a. WITHIN THE PV ARRAY, ALL AREAS TO BE EXCAVATED OR FILLED TO DEPTHS GREATER THAN 6 INCHES SHALL BE STRIPPED OF VEGETATION AND TOPSOIL. FINAL TOPSOIL DEPTH SHALL BE DETERMINED AT A LATER DATE BASED ON A SITE SPECIFIC STUDY.
   b. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE THE DESIGNATED DISTURBANCE AREAS. AVERAGE REMOVAL DEPTH OF 6"-12". IF DEEPER AREAS ARE OBSERVED THE MATERIAL SHALL BE REMOVED AS REQUIRED.
   c. ANY TOPSOIL THAT HAS BEEN STRIPPED SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AS DESIGNATED ON THE PLAN. TOPSOIL STOCKPILES SHALL BE SEGREGATED FROM THE NATIVE SOIL STOCKPILES. ALL TOPSOIL SHALL BE REDISTRIBUTED WHERE IT ORIGINATED FROM.
3. EXCAVATION
   a. ALL SUITABLE EXCAVATED MATERIAL SHALL BE USED IN THE FORMATION OF EMBANKMENT, SUBGRADE, OR OTHER PROPOSED AREAS SHOWN ON THE PLANS.
   b. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF TO AN ON-SITE LOCATION. FINAL LOCATION SHALL BE AGREED UPON WITH EDF RENEWABLES PRIOR TO PLACEMENT.
   c. WHEN THE VOLUME OF EXCAVATION EXCEEDS THAT REQUIRED TO CONSTRUCT THE EMBANKMENTS TO THE GRADES INDICATED, THE EXCESS SHALL BE USED TO GRADE THE AREAS OF ULTIMATE DEVELOPMENT OR DISPOSED OF ON SITE AS APPROVED BY THE ENGINEER.
   d. ALL RUTS OR ROUGH PLACES THAT DEVELOP IN THE COMPLETED SUBGRADE SHALL BE GRADED AND RE-COMPACTED. DEEP RUTS (GREATER THAN 3") SHALL RECEIVE ADDITIONAL MATERIAL PRIOR TO RECOMPACTION.
4. EMBANKMENT
   a. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FEET HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED FROM THE PV ARRAY GRADING AND ACCESS ROAD EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL OBTAINED BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8” AND COMPACTED TO A DENSITY OF NOT LESS THAN NINETY-FIVE (95) PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. SEE TABLE 3 FOR COMPACTION REQUIREMENTS.
   b. THE MAXIMUM STONE SIZE TO BE UTILIZED FOR EMBANKMENTS MAY NOT BE GREATER THAN 1/2 THE FILL HEIGHT AND OR A MAXIMUM OF 9" DIAMETER FOR FILLS BETWEEN 1'-3'. FOR FILLS GREATER THAN 3' IN DEPTH, THE MAXIMUM SIZE STONE SHALL BE NO LARGER THAN 14" DIAMETER. STONES OR ROCK FRAGMENTS LARGER THAN 4” IN THEIR GREATEST DIMENSION WILL NOT BE PERMITTED IN THE TOP 6” OF THE SUBGRADE. EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION.
   c. ACCESS ROADS SHALL BE CONSTRUCTED OF SUITABLE, NATIVE FILL MATERIAL EXCAVATED FROM THE PROPOSED ROADWAY ALIGNMENT OR ENGINEER APPROVED FILL MATERIAL. EMBANKMENTS SHALL BE CONSTRUCTED AND COMPACTED TO SUPPORT SOLAR COMPONENT DELIVERY TRUCKS, AND OTHER REQUIRED CONSTRUCTION TRAFFIC.
   d. ALL MV COLLECTION OR NEW UTILITY CROSSINGS TRENCHES ACROSS IN ACCESS ROADS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY (ASTM D 698)
   e. SIDE SLOPES FOR PERMANENTLY STABILIZED SLOPES STEEPER THAN 3:1, 4:1 FOR SANDY AREAS, WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.
   f. MATERIALS SUCH AS BRUSH, HEDGE, ROOTS, STUMPS, GRASS AND OTHER ORGANIC MATTER SHALL NOT BE INCORPORATED OR BURIED IN THE EMBANKMENT.

ROAD DESIGN PARAMETERS AND CONSTRUCTION

1. VERTICAL AND HORIZONTAL DESIGN PARAMETERS SHALL BE PER THE EDF RENEWABLES SPECIFICATIONS INCLUDED IN THE PROJECT BASIS OF DESIGN.
2. ACCESS ROADS SHALL MAINTAIN A 1% (MIN.) - 2% (MAX.) CROWN OR A 0.5% (MIN.) TO 2% (MAX.) CROSS SLOPE TO PROVIDE PROPER DRAINAGE FOR THE SITE. THE ROAD AGGREGATE THICKNESS SHALL BE PER THE TYPICAL SECTIONS PROVIDED IN THE CONSTRUCTION DETAILS.
3. MAXIMUM LONGITUDINAL GRADIENT SHALL NOT EXCEED 12% FOR GRAVEL ROADS.
4. SURFACE AGGREGATE SHALL BE TESTED AS PER THE FREQUENCY INDICATED IN TABLE 2.
5. SURFACE AGGREGATE SHALL BE FREE FROM LUMPS OF CLAY, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIALS OR COATINGS.
6. SURFACE AGGREGATE MATERIAL SHALL BE CLEAN, SOUND, DURABLE PARTICLES AND FRAGMENTS OF STONE OR GRAVEL, CRUSHED STONE, OR CRUSHED GRAVEL MIXED OR BLENDED WITH SAND, SCREENINGS, OR OTHER SIMILAR MATERIALS PRODUCED FROM APPROVED SOURCES.
7. ROAD SECTION AND SPECIFICATIONS SHOWN ON THE PLANS WERE PREPARED BY ULTEIG BASED ON THE SOIL CONDITIONS REPORTED IN GEOTECHNICAL RECOMMENDATIONS FROM OLSSON.
8. MINIMUM WIDTH OF HIGH TRAFFIC ACCESS ROADS SHALL BE 16'. ALL ROADS MUST HAVE A MINIMUM INTERNAL RADIUS OF 50'.
9. MINIMUM WIDTH OF INVERTER AISLES SHALL BE 36.5'. REFER TO PLANS FOR ROAD WIDTHS.
10. GRADATION SPECIFICATIONS - ODOT TABLE 703.17 PER TABLE 1.
11. ALL TEMPORARY ROADS WILL BE REMOVED AND RESTORED TO PRE-EXISTING CONDITIONS PRIOR TO COMPLETION.

LAYDOWN YARD/STORAGE YARD

1. TOPSOIL SHALL BE STRIPPED THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE THE DESIGNATED DISTURBANCE AREAS. AVERAGE REMOVAL DEPTH OF 6"-12". IF DEEPER AREAS ARE OBSERVED THE MATERIAL SHALL BE REMOVED AS REQUIRED
2. THE LAYDOWN YARD /STORAGE YARD SHALL CONSIST OF COMPACTED NATIVE MATERIAL WITH AGGREGATE BASE AS REQUIRED AND DETERMINED BY THE CONTRACTOR.
3. COMPACTED SUBGRADE SHALL BE MOISTURE CONDITIONED AND COMPACTED AS PER THE SPECIFICATION OF TABLE 3.
4. FOLLOWING PROJECT COMPLETION, THE NATIVE MATERIAL SHALL BE DECOMPACTED AND PERMANENTLY STABILIZED IN ACCORDANCE WITH PROJECT SWP3 SPECIFICATIONS.

TABLE 1: AGGREGATE BASE GRADATION (ODOT 703.17)

SIEVE SIZE	TOTAL PERCENT PASSING
2 INCH (50 MM)	100
1 INCH (25.0 MM)	70 TO 100
¾ INCH (19.0 MM)	50 TO 90
NO. 4 (4.75 MM)	30 TO 60
NO. 30 (600 UM)	9 TO 33
NO. 200 (75 UM)	0 TO 15*
*FURNISH OH SLAG THAT HAS 0 TO 10 PERCENT PASSING THROUGH THE NO. 200 (75 UM)SIEVE.	

FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
C	06/27/2022	90% DESIGN SUBMITTAL	TLB

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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

GENERAL NOTES

REVISION: C
DRAWING: FSSP-SG0-C-GRD0-G001

FENCING AND GATES

1. FENCE AND GATES SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
   - 1.1. F3204 - STANDARD GUIDE FOR DESIGN AND CONSTRUCTION OF WELDED WIRE FENCE SYSTEMS FOR SECURITY PRUPOSES
   - 1.2. A116 - STANDARD SPECIFICATION FOR METALLIC-COATED, STEEL-WOVEN WIRE FENCE FABRIC
   - 1.3. M 279 - STANDARD SPECIFICATION FOR METALLIC-COATED, STEEL WOVEN WIRE FENCE FABRIC
   - 1.4. M 232 - STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE
   - 1.5. M 133 - STANDARD SPECIFICATION FOR PRESERVATIVES AND PRESSURE TREATMENT PROCESSES FOR TIMBER
   - 1.6. M 111 - STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZATION) COATINGS ON IRON AND STEEL PRODUCTS
2. FENCE AND GATE COMPONENTS SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - 2.1. WOVEN WIRE:
     - 2.1.1. ASTM M 279 (A 116) GRADE 60, COATING TYPE ZA, COATING CLASS 80
     - 2.1.2. WIRE GAGE: 12-1/2
     - 2.1.3. HORIZONTAL STAY SPACING: 6IN
     - 2.1.4. 8FT TALL FROM BOTTOM OF FABRIC TO TOP OF WOVEN WIRE
   - 2.2. TENSION WIRE (BRACE POSTS): 9 GA. WIRE
   - 2.3. LINE POST:
     - 2.3.1. ASTM M 113 - 5IN WOOD POST
   - 2.4. LINE BRACE POSTS
     - 2.4.1. ASTM M113 - 6IN WOOD POST
   - 2.5. CORNER TERMINAL POSTS:
     - 2.5.1. ASTM M 113 - 6IN WOOD POST
   - 2.6. GATE POSTS:
     - 2.3.1. ASTM M 113 - 6IN WOOD POST
   - 2.4. LATERAL BRACE AND KNEE BRACE:
     - 2.4.1. ASTM M 113 - 6IN WOOD POST
   - 2.4. FENCE FITTINGS:
     - 2.4.1. ALL FENCE WIRE TIES, BRACE WIRE, STAPLES AND OTHER WIRE APPURTENANCES SHALL BE GALVANIZED - ASTM M 232
   - 2.5. SWING GATE:
     - 2.5.1. ASTM F900
     - 2.5.2. MATERIAL AS SPECIFIED FOR FENCE FRAMEWORK AND FABRIC
     - 2.5.3. HARDWARE - GALVANIZED PER ASTM A153, HINGES TO PERMIT 180-DEGREE INWARD AND OUTWARD GATE OPENING, PROVIDE HEAVY DUTY PADLOCK
3. INSTALLATION:
   - 3.1. INSTALL IN ACCORDANCE WITH: MANUFACTURE'S INSTRUCTIONS, LINES AND GRADES SHOWN IN DRAWINGS
   - 3.2. ALL POSTS SHALL BE DIRECT EMBEDDED IN FIRM UNDISTURBED OR COMPACTED SOIL.
   - 3.3. PLACE FENCE WITH BOTTOM EDGE OF FABRIC AT MAXIMUM CLEARANCE ABOVE GRADE, AS SHOWN ON DRAWINGS (CORRECT MINOR IRREGULARITIES IN EARTH TO MAINTAIN MAXIMUM CLEARANCE).
   - 3.4. SPACE LINE POSTS AT EQUAL INTERVALS NOT EXCEEDING 16FT OC.
   - 3.5. LINE BRACE POSTS SHALL BE INSTALLED AT 400 FT. INTERVALS, WHERE FENCING IS CONTINUOUS AND WHERE END, CORNER & LINE BRACE POSTS ARE NOT SPECIFIED.
   - 3.6. PROVIDE POST BRACES FOR EACH GATE, CORNER, PULL AND TERMINAL POST AND FIRST ADJACENT LINE POST.
   - 3.7. AT EACH LOCATION WHERE AN ELECTRICAL TRANSMISSION, DISTRIBUTION OR SECONDARY LINE CROSSES A BARRIER FENCE THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. REFER TO ELECTRICAL PLANS FOR FENCE GROUNDING REQUIREMENTS.
   - 3.8. INSTALL BRACING ASSEMBLIES AT ALL END AND GATE POSTS, AS WELL AS SIDE, CORNER AND PULL POSTS.
     - 3.8.1. LOCATE CROSS BRACING 6FT ABOVE GRADE FROM POST TO POST.
     - 3.8.2. EXTEND KNEE BRACING FROM COMPRESSION MEMBER TO BASES OF POSTS.
     - 3.8.3. INSTALL SO THAT POSTS ARE PLUMB WHEN UNDER CORRECT TENSION.
   - 3.9. PULL FABRIC TAUT AND SECURE TO POSTS.
     - 3.9.1. SECURE SO THAT FABRIC REMAINS IN TENSION AFTER PULLING FORCE IS RELEASED.
     - 3.9.2. SECURE TO POSTS WITH STAPLES AT EACH VERTICAL WIRE.
     - 3.9.3. BEND ENDS OF WIRE TO MINIMIZE HAZARDS TO PERSONS OR CLOTHING
   - 3.10. GATES:
     - 3.10.1. CONSTRUCT WITH FITTINGS OR BY WELDING.
     - 3.10.2. PROVIDE RIGID, WEATHERPROOF JOINTS.
     - 3.10.3. ASSURE RIGHT, NON-SAGGING, NON-TWISTING GATE.
     - 3.10.4. COAT WELDS WITH RUST PREVENTIVE PAINTS, COLOR TO MATCH PIPE.
   - 3.11. CONCRETE
     - 3.11.1. GATE POSTS (ALTERNATE)
       - 3.11.1.1. CONCRETE USED FOR GATE POSTS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000PSI.
       - 3.11.1.2. CONCRETE SUPPLY COMPANY SHALL PROVIDE PLANT CERTIFICATION FOR MIX DESIGN ALONG WITH PLANT COLLECTED STRENGTH SAMPLING TO VERIFY STRENGTH.
     - 3.11.2. LINE POSTS (ALTERNATE)
       - 3.11.2.1. IF REQUIRED AND SHOWN IN DETAIL THE LINE POSTS SHALL BE BACKFILLED WITH LEAN CONCRETE. LEAN CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1000PSI.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS DESIGNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE OHIO DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWP3) FOR EROSION CONTROL AND RESTORATION SPECIFICATION. UNLESS OTHERWISE NOTED OR MODIFIED HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
2. ANY AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES AND NOT WITHIN AN ACTIVE CONSTRUCTION AREA SHOULD BE STABILIZED WITHIN 7 DAYS OF INACTIVITY. TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED PER THE PROJECT SWP3.
3. DEEP TILLAGE SHALL BE COMPLETED THROUGHOUT THE SITE PRIOR TO SITE STABILIZATION. TO ACHIEVE DEEP TILLAGE REQUIREMENTS, TILLAGE SHALL BE COMPLETED BELOW THE REGULARLY TILLED TOPSOIL LAYER.
4. DECOMPACTION SHALL BE PERFORMED IN ANY TEMPORARY CONSTRUCTION AREAS WITHIN THE PROJECT SITE TO A TO A MINIMUM DEPTH NECESSARY TO ACHIEVE DEEP ROOT REGROW AND PROMOTES DRAINAGE INFILTRATION. ALL RESTORATION SHALL MEET REQUIREMENTS OF PROJECT SWP3 FOR SOIL DECOMPACTION.
5. SEED AND FERTILIZER
   - a. PROVIDE AND USE SEEDS IN ACCORDANCE WITH THE STATE OF OHIO AND MADISON COUNTY SEED LAW AND THE FEDERAL SEED ACT. PURCHASE SEEDS THROUGH A DEALER LICENSED WITH THE OHIO DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PROVIDE AND USE FERTILIZER AND OTHER SOIL AMENDMENTS, IF REQUIRED, IN ACCORDANCE WITH THE OHIO FERTILIZER LAWS AND SEED SUPPLIER'S REGIONAL RECOMMENDATIONS IN COORDINATION WITH SITE SPECIFIC SOIL TESTS FOR SEED GERMINATION.
   - b. REPRESENTATIVE SOIL SAMPLES SHALL BE TAKEN AND ANALYZED FOR PROPER SOIL AMENDMENTS PRIOR TO SEED APPLICATION.
   - c. ALL WATER USED ON THE PROJECT SHALL BE FREE OF ANY SUBSTANCES HARMFUL TO PLANT GERMINATION AND GROWTH OR TO THE ENVIRONMENT IN GENERAL.
   - d. LANDSCAPING SUBCONTRACTOR AND/OR LANDSCAPE ARCHITECT INPUT TO BE SOUGHT WHERE TEMPORARY OR PERMANENT VEGETATION IS NOT ESTABLISHED PER THE PLAN FOR IMMEDIATE CORRECTIVE ACTION.
   - e. APPLY SEED MIX IN FOLLOWING MANNER:
     - e.a. PLANT ONLY TEMPORARY AND PERMANENT SEED MIXES AS SHOWN IN THE PLANS.
     - e.b. EMPLOY SATISFACTORY METHODS OF SOWING USING MECHANICAL POWER-DRIVEN DRILLS, NO-TILL DRILLS, OR SEEDERS; OR MECHANICAL HAND SEEDERS, OR OTHER APPROVED EQUIPMENT.
     - e.c. DISTRIBUTE SEED EVENLY OVER ENTIRE AREA AT RATE OF APPLICATION RECOMMENDED PER APPROVED SEED MIX.
     - e.d. STOP WORK WHEN WORK EXTENDS BEYOND MOST FAVORABLE PLANTING SEASON FOR SPECIES DESIGNATED AS DESIGNATED IN THE SEED MIX DESIGN TABLE, OR WHEN SATISFACTORY RESULTS CANNOT BE OBTAINED BECAUSE OF DROUGHT, HIGH WINDS, EXCESSIVE MOISTURE, OR OTHER FACTORS.
       - e.d.a. RESUME WORK ONLY WHEN FAVORABLE CONDITIONS DEVELOP.
     - e.e. IF SEED BROADCASTED ON SURFACE, LIGHTLY RAKE SEED INTO SOIL FOLLOWED BY LIGHT ROLLING OR CULTIPACKING.
     - e.f. PROTECT SEEDED AREAS AGAINST TRAFFIC OR OTHER USE BY ERECTING BARRICADES AND PLACING WARNING SIGNS.
     - e.g. IF HYDROSEEDING IS USED, MACHINERY MUST BE APPROVED, MODERN, PROPERLY EQUIPPED AND OPERATED BY AN EXPERIENCED OPERATOR.
       - e.g.a. SEED AND FERTILIZE AT THE RATE SPECIFIED.
       - e.g.b. USE APPROPRIATE SHIELDS TO PROTECT AGAINST SITE IMPROVEMENTS.
6. THE CONTRACTOR SHALL COMPLY WITH AND IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWP3 THROUGHOUT CONSTRUCTION. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR EDF RENEWABLES. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE EDF RENEWABLES THROUGHOUT ALL PHASES OF CONSTRUCTION.
7. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE.
8. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER POSSIBLE. PROVIDE VELOCITY DISSIPATION DEVICE AS NEEDED TO PREVENT EROSION.
9. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW- VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.
10. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS, STORMWATER CONVEYANCES, OR FLOOD PLAIN.
11. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS, IF APPLICABLE, DURING ALL PHASES OF CONSTRUCTION.
12. CONTRACTOR SHALL PROVIDE INLET PROTECTION PER THE SWP3 DETAILS AT ALL CULVERT INLETS AND OUTLETS ADJACENT TO SITE DISTURBANCES.
13. TEMPORARY SEDIMENT CONTROL FOR ALL STORM SEWER INLETS, EXISTING AND PROPOSED, SHALL REMAIN IN PLACE UNTIL UP-SLOPE AREAS ARE STABILIZED.
14. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED.
15. 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.
16. PRESERVE A 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORMWATER FLOWS TO THE SURFACE WATER.
17. CONSTRUCT SLOPES NO STEEPER THAN 4:1. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION ON SLOPE PROTECTION FROM EROSION.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION UNTIL PERMANENT STABILIZATION IS IMPLEMENTED.
19. PERFORM VERTICAL SLOPE TRACKING ANYWHERE SLOPES EXCEED 10%.
20. TEMPORARY OR PERMANENT MULCH MUST BE UNIFORMLY APPLIED BY MECHANICAL OR HYDRAULIC MEANS AND STABILIZED BY DISC-ANCHORING OR USE OF HYDRAULIC SOIL STABILIZERS.
21. A TEMPORARY VEGETATIVE COVER CONSISTING OF A SUITABLE, FAST-GROWING, DENSE GRASS-SEED MIX SPREAD AT 1.5 TIMES THE USUAL RATE PER ACRE MUST BE PROVIDED. IF TEMPORARY COVER IS TO REMAIN IN PLACE BEYOND THE PRESENT GROWING SEASON, TWO-THIRDS OF THE SEED MIX SHALL BE COMPOSED OF PERENNIAL GRASSES.
22. CONTRACTOR SHALL DENOTE ON A 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 LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
23. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
24. PERMANENT STORMWATER MANAGEMENT IS PROVIDED ONSITE VIA THE DEEP ROOTED VEGETATION, VEGETATED BUFFERS, AND GRASSED SWALES.
25. DISCHARGE QUALITY CRITERIA:
    - 25.1. THE CONSTRUCTION ACTIVITY SHALL BE CARRIED OUT IN SUCH A MANNER THAT WILL PREVENT VIOLATIONS OF WATER QUALITY CRITERIA AS STATED WITHIN OHIO EPA RULES.
    - 25.2. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL OR OTHER MATTER CONTAINED IN THE STORMWATER DISCHARGE.
    - 25.3. THE STORMWATER DISCHARGE MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST IN THE RECEIVING STREAM.
    - 25.4. THE STORMWATER DISCHARGE MUST RESULT IN NO MATERIALS IN CONCENTRATIONS SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE, OR FISH AND AQUATIC LIFE IN THE RECEIVING STREAM.

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

1. THE SWP3 DOCUMENT WAS DEVELOPED BY ULTEIG ENGINEERS, INC. AND SHALL BE ACCESSIBLE THROUGHOUT CONSTRUCTION FOR THE PROJECT.
2. THE CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT PRACTICES (BMPs) AS OUTLINED IN THE SWP3 DOCUMENT AND IN ACCORDANCE WITH OHIO DEPARTMENT OF ENVIRONMENTAL PROTECTION.
3. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE SWP3 DOCUMENT AND GUIDELINES.
4. THE CONTRACTOR MAY CHOOSE TO UTILIZE ADDITIONAL BMPs AS NECESSARY TO ENSURE THAT EROSION AND SEDIMENT IS MANAGED THROUGHOUT CONSTRUCTION AND AFTER THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR EDF RENEWABLES. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE EDF RENEWABLES THROUGHOUT ALL PHASES OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PERFORM RESTORATION AND/OR SEEDING TO AREAS TEMPORARILY DISTURBED BY CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT AS REQUIRED BY THE PROJECT SWP3.
6. NON-STORM WATER POLLUTANTS SUCH AS CONCRETE, FLY ASH, LIME, ETC. AND/OR OTHER MATERIALS SHALL BE CONTAINED ON-SITE AND DISPOSED OF PROPERLY PER THE REQUIREMENTS OF THE PROJECT SWP3.
7. NATURAL BUFFERS SHOULD BE THE FIRST OPTION FOR ALL SEDIMENT AND EROSION CONTROL WITHIN THE PROJECT. A NATURAL BUFFER SHOULD PROVIDE A 50-FOOT BUFFER FROM TOP OF BANK OF SURFACE WATERS, WATER OF THE UNITED STATES, AND DEFINED DRAINAGE CHANNELS WHEN FEASIBLE.
8. ANY ERODIBLE MATERIAL WITHIN PROJECT NEW OR EXISTING DRAINAGE WAYS OR CONVEYANCE SYSTEMS INCLUDING CULVERTS, DITCHES, AND/OR TRENCHES SHALL BE PROTECTED UTILIZING TEMPORARY BERMS, SILT FENCE, EROSION BLANKETS, BIOROLLS, AND/OR SEEDING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MONITOR THE BMPs THROUGHOUT CONSTRUCTION UNTIL PERMANENT STABILIZATION IS REACHED FOR THE PROJECT.
9. TEMPORARY STORMWATER SWALES, CHECK DAMS, AND MODIFIED SEDIMENT TRAPS WHERE APPLICABLE SHALL BE CONSTRUCTED DOWNSTREAM OF MAJOR GRADING AREAS TO FILTER SEDIMENT.
10. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE 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 MAY BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE THAT MEETS OR EXCEEDS THE GOVERNING REQUIREMENTS, AND CLEANED AND REPLACED IN ACCORDANCE WITH THE FOLLOWING:
    - 10.1. SEDIMENT CONTROL BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
    - 10.2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED.
    - 10.3. SEDIMENT CONTROL LOGS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED, SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT CONTROL LOGS WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
    - 10.4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
    - 10.5. 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 DEMAND.
    - 10.6. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER.

FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
C	06/27/2022	90% DESIGN SUBMITTAL	TLB

EDF renewables
15445 Innovation Dr
San Diego, CA 92128

BLATTNER ENERGY
392 Co. Rd. 50,
Avon, MN 56310

OHIO811 Before You Dig

NAD 83 Ohio State Planes, South Zone, US Foot

THIS DRAWING IS PRELIMINARY AND IS NOT TO BE USED FOR CONSTRUCTION. FOR REVIEW PURPOSES ONLY.

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Approved By: L. JORDAHL

GENERAL NOTES

REVISION:
C
DRAWING:
FSSP-SG0-C-GRD0-G002

CONTROL POINTS (NAD83 OHIO SOUTH ZONE, US FEET W/ NAVD88 ELEVATIONS)			
CONTROL POINT	EASTING	NORTHING	ELEVATION
300	656267.59	1736159.66	944.76
301	656462.04	1730681.33	957.60
302	652914.53	1723671.73	972.76
303	651580.02	1720926.50	979.00
304	649055.93	1715733.06	989.60
305	656636.30	1708762.37	1010.83
306	662409.65	1713952.82	998.48
307	664525.31	1719355.46	989.90
308	650297.83	1738476.34	947.89
309	641451.47	1728475.46	955.29

TABLE 2: TESTING SCHEDULE SUMMARY

MATERIAL	TEST REQUIRED	FREQUENCY
STRUCTURAL FILL: BELOW STRUCTURES (LAB TESTS)	ASTM D6913:GRAIN SIZE ANALYSIS; ASTM D698 :PROCTOR DENSITY; ASTM D2216: MOISTURE CONTENT AND ASTM D4318: ATTERBERG'S ON FINES	1 PER SOIL TYPE
GENERAL FILL: BELOW ROADWAYS; SOLAR ARRAY, OR NON-STRUCTURAL (LAB TESTS)**	ASTM C6913:GRAIN SIZE ANALYSIS; ASTM D698 :PROCTOR DENSITY; ASTM D2216: MOISTURE CONTENT AND ASTM D4318: ATTERBERG'S ON FINES	1 PER SOIL TYPE
AGGREGATE BASE (LAB TESTS)	ASTM C136:GRAIN SIZE ANALYSIS; ASTM D698 :PROCTOR DENSITY; ASTM D2216: MOISTURE CONTENT AND ASTM D4318: ATTERBERG'S ON FINES (AS REQUIRED FOR ATTERBERG LIMITS)	1 PER 2,500 CY OF AGGREGATE PLACED (MAX 20 TESTS)
COMPACTED SUBGRADE / GENERAL FILL BELOW ROADWAYS (IN-PLACE)	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	3 PER 1,000 LF OF EACH ROAD *
	PROOF-ROLL***	ENTIRE LENGTH
	DCP (ASTM D6951)	2 PER 1,000 LF (IF PROOF ROLL FAILS)
AGGREGATE BASE (IN-PLACE)	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	TBD
	PROOF ROLL***	ENTIRE LENGTH
	DCP (ASTM D6951)	1 PER 1,000 LF (IF PROOF ROLL FAILS)
STRUCTURAL FILL: IN-PLACE	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	1 TEST PER TBD SY OF MATERIAL PLACED PER LIFT (1 LIFT = 8 INCH LOOSE)
GENERAL FILL: PV ARRAY: IN-PLACE	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	TBD
GENERAL FILL: NON-STRUCTURAL (IN-PLACE)	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	TBD

* SAME SOIL ZONE AS DEFINED BY GEOTECHNICAL ENGINEER.
** SEE MATERIAL REQUIREMENTS PER TABLE 3 (THIS SHEET)
*** REFERENCE PROOF ROLL REQUIREMENTS IN SECTION F.1 OF THE GEOTECHNICAL REPORT. PROOF-ROLL OPERATIONS SHOULD BE OBSERVED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR A QUALIFIED REPRESENTATIVE.

TABLE 3: COMPACTION AND MOISTURE CONTENT REQUIREMENTS

MATERIAL TYPE AND LOCATION	MATERIAL TYPE	MIN. COMPACTION REQUIREMENT (%) (ASTM D698)	RANGE OF MOISTURE CONTENTS FOR COMPACTION (% ABOVE OPTIMUM)
STRUCTURAL FILL*	ODOT ITEM 703.17 AGGREGATE BASE	95	-3 TO +3 PERCENT
	IMPORTED LOW PLASTICITY, NON-EXPANSIVE COHESIVE SOIL	95	-2 TO +3 PERCENT
	APPROVED EXCAVATED NATIVE MATERIALS (SP, SC, SM, AND CL MATERIALS)	95	-2 TO +3 PERCENT
GENERAL FILL (BELOW ROADWAYS)	APPROVED EXCAVATED NATIVE MATERIALS (SP, SC, SM, AND SELECT CL MATERIALS)	95	-2 TO +3 PERCENT
	IMPORTED LOW PLASTICITY, NON-EXPANSIVE COHESIVE SOIL	95	-2 TO +3 PERCENT
AGGREGATE BASE (ROADWAYS)	ODOT ITEM 703.17 AGGREGATE BASE	95	-3 TO +3 PERCENT
GENERAL FILL (IN SOLAR ARRAY AREAS)	APPROVED EXCAVATED NATIVE MATERIALS (SP, SC, SM, AND CL MATERIALS)	85	-2 TO +3 PERCENT
GENERAL FILL (IN NON-STRUCTURAL AREAS) - FILLS LESS THAN 4 FT IN THICKNESS	APPROVED EXCAVATED NATIVE MATERIALS (SP, SC, SM, AND CL MATERIALS)	85	-2 TO +3 PERCENT

*STRUCTURAL FILL SHOULD BE FREE OF ORGANIC MATTER OR DEBRIS AND ROCKS GREATER THAN 3 INCHES. MATERIALS SHOULD CONSIST OF WELL GRADED GRANULAR MATERIAL OR COHESIVE, LOW PLASTICITY, NON-EXPANSIVE SOIL AND HAVE A LIQUID LIMIT AND PLASTICITY INDEX LESS THAN 45 AND 20, RESPECTIVELY.

PENDING FINAL GEOTECHNICAL REPORT

PENDING - TO BE UPDATED BASED ON OH EPA APPROVAL

LOW GROWING SPECIAL NATIVE SEED MIX

KIND	VARIETY	APPLICATION RATES (LB PLS/ AC)	MAXIMUM HEIGHT (FEET)
LITTLE BLUESTEM	CAMPER	1.75	2.5 - 3
SIDEOATS GRAMA	BUTTE	1.25	2.5 - 3
SAND DROPSEED	VNS	0.25	3 - 3.5
TALL/ROIUGH DROPSEED	IA NATIVE	0.72	3.5 - 4
WILD BERGAMOT		0.05	3.5 - 4
BLACKEYED SUSAN		0.10	3 - 3.5
HOARY VERVAIN		0.047	3 - 3.5
PURPLE PRAIRIE CLOVER		0.60	3
GRAY HEADED CONEFLOWER		0.40	3 - 4
PARTRIDGE PEA		0.15	<1 - 2
CRIMSON CLOVER	DIXIE	0.50	2 - 2.5
ALSIKE CLOVER	VNS	0.50	2 - 2.5
GOLDEN ALEXANDERS		0.10	2 - 2.5
BUTTERFLY MILKWEED		0.05	2
CHEWING FESCUE	INTRIGUE	4	1.5 - 2
HARD FESCUE	GLADIATOR	4	1.5 - 2
OATS	JERRY	25	4 - 5

APPROVED PLANTING DATES: DORMANT SEASON (AFTER NOV. 15TH) OR SPRING SEEDING. PLANTING OUTSIDE OF THESE DATES MAY REQUIRE SPECIAL RECOMMENDATIONS FROM ULTEIG.

APPROVED SEEDING METHOD: DRILLING SEEDING METHOD IS PREFERRED. BROADCASTING METHOD MAY ALSO BE ACCEPTABLE IF CULTIPACKER OR ROLLER IS RAN OVER SEED TO OBTAIN GOOD SEED TO SOIL CONTACT. REFER TO EROSION AND SEDIMENT CONTROL NOTES 5.e.

OHIO EPA VEGETATION PLAN

THE FOLLOWING CONDITIONS ARE REQUIRED TO MANAGE THE WATER QUALITY VOLUME GENERATED BY PV PANELS SOLELY BE IMPERVIOUS SURFACE DISCONNECTION:

1. ESTABLISH A COVER OF DENSE, DEEP-ROOTING VEGETATION.
   - 1.1. SEED MIX: REFER TO TABLE 3 ON SHEET FSSP-SG0-C-GRD0-G003 FOR SEED MIX.
   - 1.2. DATES AND PROCEDURES:
     - 1.2.1. APPROVED PLANTING DATES: DORMANT SEASON (AFTER NOV. 15TH) OR SPRING SEEDING.
     - 1.2.2. APPROVED PROCEDURES: DRILLING OR BROADCASTING PER NOTE 5.e. IN EROSION AND SEDIMENT CONTROL NOTES (SHEET FSSP-SG0-C-GRD0-G002)
   - 1.3. TEMPORARY STABILIZATION METHODS: PER EROSION AND SEDIMENT CONTROL PLANS AND NOTES; PER SWP3 DOCUMENT
   - 1.4. MAINTENANCE PLAN:
     - 1.4.1. ACTIVITES THAT MAY CAUSE SOIL COMPACTION MUST BE INFREQUENT. SHOULD SOILS BECOME COMPACTED DURING CONSTRUCTION ACTIVITIES, SOILS MUST BE DEEP TILLED AND DE-COMPACTED AND PREPARED FOR SEED PER NOTES 3 AND 4 IN EROSION AND SEDIMENT CONTROL NOTES (SHEET FSSP-SG0-C-GRD0-G002).
2. ENSURE POST-CONSTRUCTION SOILS ARE IN GOOD HYDROLOGIC CONDITION.
   - 2.1. SOIL IN GOOD HYDROLOGIC CONDITION HAS NOT BEEN COMPACTED AND/OR STRIPPED OF TOPSOIL THROUGH GRADING, EXCAVATION, AND THE OPERATION OF EQUIPMENT.
   - 2.2. LIMIT GRADING TO LOCALIZED AREAS AND REPLACE TOPSOIL TO THE EXTENT POSSIBLE.
   - 2.3. WHERE FEASIBLE, DIRECT CONSTRUCTION TRAFFIC TO STABILIZED ACCESS ROADS.
   - 2.4. IF WORK ON WET SOILS CANNOT BE RESTRICTED, CONTRACTOR IS TO LIMIT THE EQUIPMENT AXEL LOAD TO 6 TONS AND/OR COMPLETE DE-COMPACTION MEASURES.
   - 2.5. A FIELD CULTIVATOR OR OTHER IMPLEMENT IS RECOMMENDED TO LOOSEN COMPACTED SOILS WHILE SMOOTHING SOIL FOR SEEDBED PREPARATION AND WEED CONTROL.
3. ESTABLISH NON-EROSIVE FLOW OVER THE DISCONNECTION LENGTH.
   - 3.1. THE PROJECT CONSISTS OF ROLLING HILLS, GENERALLY NOT EXCEEDING 5%, THEREFORE EROSIVE FLOWS ARE NOT ANTICIPATED AND STONE SPLASH PAD OR SIMILAR MEASURES ARE NOT PROPOSED.
   - 3.2. SHOULD EROSIVE FLOWS BE OBSERVED, THE CONTRACTOR IS TO NOTIFY THE ENGINEER.

FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
C	06/27/2022	90% DESIGN SUBMITTAL	TLB

EDF renewables
15445 Innovation Dr
San Diego, CA 92128

BLATTNER ENERGY
392 Co. Rd. 50,
Avon, MN 56310

OHIO811 Before You Dig

NAD 83 Ohio State Planes, South Zone, US Foot

THIS DRAWING IS PRELIMINARY AND IS NOT TO BE USED FOR CONSTRUCTION. FOR REVIEW PURPOSES ONLY.

Ulteig
3350 38th Avenue South
Fargo, North Dakota 58104
Phone: 701.280.8500
Fax: 701.237.3191
www.ulteig.com

Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

GENERAL NOTES

REVISION:
C
DRAWING:
FSSP-SG0-C-GRD0-G003

G:\2021\21.00649\Drawings\PV Plant\30 Civil\01 - Drawings\01 - Plan Set Drawings\21.00649_Fox Squirrel_GEN.dwg GRD0-G003

CIVIL BASIS OF DESIGN				
Fox Squirrel Solar Project - 577 MW				
PV Plant Layout	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Design vehicle (construction) - component delivery	WB-62 OR 43' Fire Truck	Ulteig Standard		
Design vehicle (final) - maintenance	Maintenance Truck (10,000Lbs)	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	Design per section 2.1.4.6 in EDF Design Specifications
Access Road - Design Speed	25 MPH	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	
Stopping Site Distance	155ft (Min)	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	
Site Access Road X-Section	4" aggregate on cement stabilized subgrade	Blattner		Percent and depth of cement stabilization to be determined based on field testing. Local fire district requirements are for a 57,000LB tri-axle tanker truck; Finish aggregate shall not be less than 1 1/2" minus per EDF Specficiations
Substation Access Road - Radius	≥100ft	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	
Substation Access Road - Approach	50ft	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	
Road profile	K-value for sag/crest curve per WB-67 or 43' Fire Truck component vehicle specs.	Ulteig Standard		Per EDF Specifications "k" value shall equal 16.5 for sag curves and 12 for crest curves; 8% Max Longitudinal Grade
Access Roads Width	16ft	Per Local Fire Requirements		**Ohio State Fire Code requires 20ft road width; Variance anticiapted to approve a 16ft width**
Road Centerline Radius - component delivery vehicle	50' min.	Ulteig Standard		
Inner radius - maintenance vehicle	40' (30' min.)	Ulteig Standard		Minimum turning radii per local fire code official
Turnarounds - 120' hammerhead	with 30' radius typ.	2018 International Fire Code, Appendix D		
Turnarounds - Alternative to 120' hammerhead	with 70' leg & 30' radius typ.	2018 International Fire Code, Appendix D		
Row to Row Spacing	11.156'	RRC Design		Per layout received 3/16/22
Modules to Fence	20' min.	Ulteig Standard		
Access Road Offset to Fence	5' min.	Ulteig Standard		
Access Roads to PV Array (Drive Isle)	10.25' min. typ.	RRC Design		Per layout received 3/16/22
Access Roads to PV Array (Radii)	3.75' min.	Ulteig Standard		
Fence Design	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Perimeter	8' Game Fence	Blattner		Utilize a tensioning wire instead of a top rail per Blattner request
Gate type	Double Swinging Gate	Ulteig Standard		
Gate width	20' min.	Blattner		Use a 20ft gate for 16ft roads and a 24ft gate for 20ft roads (if required)
Posts	Gates and Corner Braces per manufacture, line posts direct driven	Ulteig Standard		
Fence Fabric	12.5 gauge fabric with max 6" stay spacing	Ulteig Standard		
Grading Design	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
General Fill (Below Roadways)	95% Standard Proctor (ASTM D 698) +/-3% Moisture Content (Of Optimum)	Olsson Geotechnical Report	40_Geotechnical Engineering Report	Reference Table D.2-1 in geotechnical report for material requirements
General Fill (Inside PV Array Areas)	95% Standard Proctor (ASTM D 698) -2 to +3% Moisture Content (Of Optimum)	Olsson Geotechnical Report	40_Geotechnical Engineering Report	Reference Table D.2-1 in geotechnical report for material requirements
Structural Fill (Below Structures)	95% Standard Proctor (ASTM D 698) -2 to +3% Moisture Content (Of Optimum)	Olsson Geotechnical Report	40_Geotechnical Engineering Report	Reference Table D.2-1 in geotechnical report for material requirements
Trench Fill (Outside of Roadway)	85% Standard Proctor (ASTM D 698)	Olsson Geotechnical Report	40_Geotechnical Engineering Report	
Maximum Slope - Outside Array	Permanent Foreslopes & Backslopes shall be no greater than 3H:1V	Olsson Geotechnical Report	40_Geotechnical Engineering Report	*Permanent fill and cut slopes at the site should not exceed 3H:1V
Maximum Slope - Inside Array	4 % max	Blattner		Maximum tracker slope is based on project specific design requirements
Grading Tolerance	+/-3"	Blattner		Topo Verification Report prepared by SAM and Ulteig indicate that the LiDAR RSME values are greater than the requested +/-3" grading tolerance
Module Leading Edge Clearance to Ground	12"	Ulteig Standard		
Flooded Areas	Avoid areas of greater than 24" stormwater inundation depths where possible, and raise/adjust layout as necessary to optimize layout.	Ulteig Standard	Fox Squirrel I and II Solar Geotechnical Report _final_20210409_Olsson	During constraints use 12" to 36" inundation as a standard to stay out of for buildable area
Stormwater Design	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Runoff Management	Drainage structure sizing calculation by using rational method, curve number method, or local regression equations	Ulteig. Design shall meet State & National Pollution Discharge Elimination System (NPDES) requirements.		Review county requirements
Internal Drainage	Maintain agricultural ditches where feasible; reroute with proposed ditches to optimize layout and constructability	Ulteig Standard	Fox Squirrel I and II Solar Geotechnical Report _final_20210409_Olsson	
Freeboard	12-inches above preliminary drainage inundation depths for array equipment	ASCE 24-14		Per ASCE 24-14 if site is classified as a Class 4 (supporting critical care/emergency facilities) all inverters and transformers shall have at least 24-inches freeboard
Box or pipe culvert structures	Size for 10-yr, 24-hr storm event	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	Minimum Culvert Size 18in (Per EDF Spececifications)
Structure armoring	Withstand 50-yr storm event w/o failure	EDF Specifications	FS_BOP_Ex_D.1.2_Road Specification15ft - Rev 7s_clean	Armored/reinforced cross section to pass the 50-yr storm flow
Silt Fence	Access roads: 5' min. offset PV Array: 15' min. offset	Ulteig Standard		Silt fence should be installed outside of proposed security fencing per Blattner
Ground Cover	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Seeding	TBD	Ulteig Standard		
Trees	70' for S,W,E and 35' N buffer Based on Direction	Ulteig Standard		Confirm with client on preference;tree clearing required for development, however, additional clearing for mitigating shading is not required at this time.
Tiling	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
N/A	N/A	By Others		Confirm with client on preference

FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
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NAD 83 Ohio State Planes, South Zone, US Foot

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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

BASIS OF DESIGN

REVISION:
C
DRAWING:
FSSP-SG0-C-GRD0-G004

CULVERT CROSSINGS SCHEDULE
NAD 83 OHIO STATE PLANE, SOUTH ZONE 3402, US FOOT
SIZING AND DESIGN BASED ON 10 YEAR - 24 HOUR STORM EVENT

ID	ACCESS ROAD #	LATITUDE	LONGITUDE	NORTHING (FT)	EASTING (FT)	DRAINAGE AREA (AC)	Q10(CFS)	OPTION 1	ESTIMATED LENGTH (FT)	VELOCITY (FPS)	OUTLET PROTECTION	DETAIL #	SHEET #
C-1	ACCESS ROAD 2.0	39° 48' 51.48" N	83° 23' 19.99" W	662037.17	1718806.50	0.74	1.0	(1) 18" HDPE	31	0.9	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P002
C-2	ACCESS ROAD 2.1	39° 47' 55.24" N	83° 24' 12.32" W	656387.66	1714665.99	0.33	0.7	(1) 18" HDPE	31	0.6	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P003
C-3	ACCESS ROAD 2.4	39° 47' 53.60" N	83° 24' 18.63" W	656226.57	1714172.04	1.03	2.2	(1) 18" HDPE	31	2.0	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P003
C-4	ACCESS ROAD 2.4	39° 47' 45.23" N	83° 24' 25.30" W	655384.88	1713643.20	0.19	0.4	(1) 18" HDPE	31	0.4	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P003
C-5	ACCESS ROAD S1.0	39° 47' 54.50" N	83° 23' 52.37" W	656295.29	1716072.56	0.61	1.3	(1) 18" HDPE	31	1.2	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P004
C-6	ACCESS ROAD 5.0	39° 47' 18.96" N	83° 22' 57.55" W	652659.07	1720465.83	0.04	0.1	(1) 18" HDPE	31	0.1	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P006
C-7	ACCESS ROAD 10.0	39° 47' 13.33" N	83° 22' 38.43" W	652074.70	1721952.59	1.58	2.2	(1) 18" HDPE	31	2.0	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P006
C-8	ACCESS ROAD 6.0	39° 46' 58.40" N	83° 23' 17.54" W	650593.64	1718884.57	0.82	1.5	(1) 18" HDPE	31	1.4	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P008
C-9	ACCESS ROAD 8.0	39° 46' 49.75" N	83° 23' 38.64" W	649735.06	1717229.49	0.03	0.1	(1) 18" HDPE	31	0.1	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P007
C-10	ACCESS ROAD 7.0	39° 46' 48.55" N	83° 24' 04.36" W	649633.60	1715219.93	0.55	1.3	(1) 18" HDPE	31	1.2	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P007
C-11	ACCESS ROAD 9.0	39° 46' 18.61" N	83° 23' 20.74" W	646570.74	1718595.72	0.67	1.4	(1) 18" HDPE	31	1.3	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P010
C-12*	ACCESS ROAD 10.9	39° 47' 14.40" N	83° 21' 04.10" W	652112.29	1729317.19	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P016
C-13*	ACCESS ROAD 10.10	39° 47' 06.29" N	83° 20' 55.83" W	651285.73	1729955.02	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P016
C-14*	ACCESS ROAD 10.13	39° 47' 42.19" N	83° 20' 18.70" W	654890.64	1732886.79	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P020
C-15*	ACCESS ROAD 10.12	39° 47' 33.59" N	83° 20' 19.27" W	654021.77	1732833.89	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P020
C-16*	ACCESS ROAD 10.11	39° 47' 25.05" N	83° 20' 13.19" W	653152.91	1733300.42	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P017
C-17*	ACCESS ROAD 10.10	39° 47' 16.41" N	83° 20' 20.35" W	652284.05	1732733.46	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P017
C-18*	ACCESS ROAD 10.10	39° 47' 07.82" N	83° 20' 21.42" W	651415.19	1732642.15	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P017
C-20*	ACCESS ROAD 10.5	39° 46' 29.49" N	83° 20' 14.48" W	647532.63	1733147.93	-	-	TBD	54	-	Per County Requirements	TBD	FSSP-SG0-C-GRD3-P014
C-21	ACCESS ROAD 10.12	39° 47' 37.04" N	83° 19' 26.26" W	654331.91	1736975.43	0.61	1.4	(1) 18" HDPE	75	1.26	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P021
C-22	ACCESS ROAD 10.7	39° 46' 51.59" N	83° 19' 04.70" W	649717.98	1738616.15	0.75	1.6	(1) 18" HDPE	75	1.45	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P018
C-23	ACCESS ROAD S1.0	39° 47' 51.95" N	83° 24' 19.65" W	656059.95	1714090.60	0.22	0.5	(1) 18" HDPE	31	0.5	Degradable RECP	ECD-503	FSSP-SG0-C-GRD3-P003

PENDING COUNTY DESIGN

*SIZING AND OUTLET PROTECTION DETERMINED BY THE COUNTY

LOW WATER CROSSINGS SCHEDULE
NAD 83 OHIO STATE PLANE, SOUTH ZONE 3402, US FOOT
SIZING AND DESIGN BASED ON 25 YEAR - 24 HOUR STORM EVENT

ID	ACCESS ROAD #	LATITUDE	LONGITUDE	NORTHING (FT)	EASTING (FT)	DRAINAGE AREA (AC)	Q25(CFS)	LWC LINING DESIGN	DETAIL #	MINIMUM LWC LENGTH (FT)	LWC WIDTH (FT)	FLOW DEPTH (FT)	VELOCITY (FPS)	MAXIMUM SHEAR STRESS (PSF)	SHEET #
LWC-1	ACCESS ROAD 10.4	39° 46' 39.31" N	83° 21' 49.70" W	648595.52	1725723.43	68.8	62.8	3" Minus Aggregate	SSR-111	35	16	0.5	2.03	0.17	FSSP-SG0-C-GRD3-P012
LWC-2	ACCESS ROAD 10.4	39° 46' 39.39" N	83° 21' 38.64" W	648595.52	1726586.88	54.0	41.4	3" Minus Aggregate	SSR-111	20	16	0.5	1.94	0.15	FSSP-SG0-C-GRD3-P012
LWC-3	ACCESS ROAD 10.9	39° 47' 07.03" N	83° 21' 07.09" W	651368.57	1729076.67	209.0	81.2	3" Minus Aggregate	SSR-111	50	16	0.5	1.91	0.15	FSSP-SG0-C-GRD3-P016
LWC-4	ACCESS ROAD 10.9	39° 47' 26.99" N	83° 20' 58.99" W	653382.65	1729728.03	105.9	52.2	3" Minus Aggregate	SSR-111	30	16	0.5	1.68	0.11	FSSP-SG0-C-GRD3-P019
LWC-5	ACCESS ROAD 10.12	39° 47' 33.38" N	83° 20' 48.77" W	654021.77	1730531.81	135.9	54.1	3" Minus Aggregate	SSR-111	30	16	0.5	1.61	0.10	FSSP-SG0-C-GRD3-P019
LWC-6	ACCESS ROAD 10.13	39° 47' 42.03" N	83° 20' 40.85" W	654890.64	1731157.45	156.8	54.9	3" Minus Aggregate	SSR-111	30	16	0.5	1.60	0.10	FSSP-SG0-C-GRD3-P019
LWC-7	ACCESS ROAD 10.10	39° 47' 08.02" N	83° 19' 52.87" W	651415.19	1734870.90	26.5	38.6	3" Minus Aggregate	SSR-111	20	16	0.5	2.78	0.31	FSSP-SG0-C-GRD3-P017
LWC-8	ACCESS ROAD 10.8	39° 46' 59.45" N	83° 19' 50.63" W	650546.32	1735037.52	54.9	60.2	3" Minus Aggregate	SSR-111	35	16	0.5	2.59	0.27	FSSP-SG0-C-GRD3-P017
LWC-9	ACCESS ROAD 10.7	39° 46' 50.88" N	83° 19' 48.28" W	649677.46	1735213.60	71.6	60.8	3" Minus Aggregate	SSR-111	35	16	0.5	2.49	0.25	FSSP-SG0-C-GRD3-P017
LWC-10	ACCESS ROAD 10.6	39° 46' 42.32" N	83° 19' 44.72" W	648808.60	1735483.00	106.6	83.5	3" Minus Aggregate	SSR-111	50	16	0.5	2.43	0.24	FSSP-SG0-C-GRD3-P014
LWC-11	ACCESS ROAD 10.6	39° 46' 33.73" N	83° 19' 44.74" W	647939.74	1735473.87	134.1	93.5	3" Minus Aggregate	SSR-111	55	16	0.5	2.36	0.22	FSSP-SG0-C-GRD3-P014
LWC-12	ACCESS ROAD 10.5	39° 46' 25.02" N	83° 20' 01.59" W	647070.88	1734149.89	171.4	110.4	3" Minus Aggregate	SSR-111	70	16	0.5	2.36	0.22	FSSP-SG0-C-GRD3-P014
LWC-13	ACCESS ROAD 10.7	39° 46' 51.81" N	83° 19' 57.21" W	649777.965	1734516.915	17.9	27.0	3" Minus Aggregate	SSR-111	15	16	0.50	2.79	0.31	FSSP-SG0-C-GRD3-P017

ACCESS GATE SCHEDULE

GATE ID	ACCESS ROAD	LATITUDE	LONGITUDE	NORTHING (FT)	EASTING (FT)	GATE TYPE	DETAIL #
G-1	ACCESS ROAD 1.0-2.0	39° 48' 40.0831" N	83° 24' 04.7099" W	660918.0830	1715305.8661	20' SWINGING GATE	FGD-622
G-2	ACCESS ROAD 1.0-2.0	39° 48' 39.6571" N	83° 24' 04.0437" W	660874.4621	1715357.4182	20' SWINGING GATE	FGD-622
G-3	ACCESS ROAD 2.0	39° 48' 47.3307" N	83° 23' 20.1133" W	661616.8938	1718792.9690	20' SWINGING GATE	FGD-622
G-4	ACCESS ROAD 3.0	39° 48' 19.0389" N	83° 24' 29.0406" W	658807.8914	1713385.9193	20' SWINGING GATE	FGD-622
G-5	ACCESS ROAD 3.0	39° 48' 18.5971" N	83° 24' 28.3949" W	658762.6782	1713435.8571	20' SWINGING GATE	FGD-622
G-6	ACCESS ROAD 2.2	39° 48' 13.9878" N	83° 24' 33.4991" W	658300.3258	1713032.8485	20' SWINGING GATE	FGD-622
G-7	N/A	39° 48' 12.4973" N	83° 24' 20.9646" W	658139.6942	1714009.5070	20' SWINGING GATE	FGD-622
G-8	ACCESS ROAD 2.1	39° 48' 13.3808" N	83° 24' 16.8467" W	658225.8604	1714331.7556	20' SWINGING GATE	FGD-622
G-9	ACCESS ROAD 2.1	39° 48' 11.7506" N	83° 24' 17.6958" W	658061.5878	1714263.8423	20' SWINGING GATE	FGD-622
G-10	N/A	39° 48' 12.0393" N	83° 24' 29.0579" W	658099.6942	1713377.4470	20' SWINGING GATE	FGD-622
G-11	ACCESS ROAD 2.2	39° 48' 11.6609" N	83° 24' 36.1889" W	658067.0152	1712820.5648	20' SWINGING GATE	FGD-622
G-12	ACCESS ROAD 2.1	39° 47' 59.1389" N	83° 24' 12.3791" W	656781.4006	1714665.9890	20' SWINGING GATE	FGD-622
G-13	ACCESS ROAD 2.4	39° 47' 54.1899" N	83° 24' 19.7643" W	656286.4381	1714084.6036	20' SWINGING GATE	FGD-622
G-14	ACCESS ROAD 2.4	39° 47' 45.7985" N	83° 24' 26.6018" W	655442.7720	1713542.4367	20' SWINGING GATE	FGD-622
G-15	ACCESS ROAD S1.0	39° 47' 45.6253" N	83° 23' 26.0060" W	655399.0320	1716164.3254	24' SWINGING GATE	FGD-622
G-16	ACCESS ROAD S1.0	39° 47' 38.2654" N	83° 23' 57.1181" W	654657.5661	1715835.9646	24' SWINGING GATE	FGD-622
G-17	ACCESS ROAD 7.0	39° 46' 47.9531" N	83° 24' 05.4000" W	649573.5224	1715138.7449	20' SWINGING GATE	FGD-622
G-18	ACCESS ROAD 6.0	39° 46' 59.4663" N	83° 23' 18.2590" W	650701.9315	1718830.2845	20' SWINGING GATE	FGD-622
G-19	ACCESS ROAD 5.0	39° 47' 19.5099" N	83° 22' 52.5326" W	652710.2223	1720858.3239	20' SWINGING GATE	FGD-622
G-20	ACCESS ROAD 10.0	39° 47' 04.9408" N	83° 22' 32.9788" W	651221.3011	1722370.3098	20' SWINGING GATE	FGD-622
G-21	ACCESS ROAD 9.0	39° 46' 17.7073" N	83° 23' 21.3644" W	646479.2401	1718546.2561	20' SWINGING GATE	FGD-622
G-22	ACCESS ROAD 8.0	39° 46' 37.0704" N	83° 23' 28.4179" W	648443.7796	1718014.8978	20' SWINGING GATE	FGD-622
G-23	N/A	39° 46' 28.2114" N	83° 20' 15.8235" W	647403.4891	1733042.2167	20' SWINGING GATE	FGD-622
G-24	N/A	39° 46' 28.2245"N	83° 20' 13.9870" W	647403.4891	1733185.6082	20' SWINGING GATE	FGD-622
G-25	ACCESS ROAD 10.7	39° 46' 51.2203" N	83° 19' 06.0089" W	649681.5146	1738513.8798	20' SWINGING GATE	FGD-622
G-26	N/A	39° 47' 13.8174" N	83° 21' 04.5033" W	652053.3663	1729285.1951	20' SWINGING GATE	FGD-622
G-27	N/A	39° 47' 15.1413" N	83° 21' 03.9674" W	652186.9209	1729328.2912	20' SWINGING GATE	FGD-622
G-28	ACCESS ROAD 10.12	39° 47' 36.6847" N	83° 19' 27.4972" W	654296.7988	1736878.3857	20' SWINGING GATE	FGD-622

FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
C	06/27/2022	90% DESIGN SUBMITTAL	TLB

EDF renewables
15445 Innovation Dr
San Diego, CA 92128

BLATTNER ENERGY
392 Co. Rd. 50,
Avon, MN 56310

OHIO811 Before You Dig

NAD 83 Ohio State Planes, South Zone, US Foot

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Ulteig
3350 38th Avenue South
Fargo, North Dakota 58104
Phone: 701.280.8500
Fax: 701.237.3191
www.ulteig.com
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

DRAINAGE CROSSING SCHEDULES

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD0-G005

EARTHWORK SUMMARY (BY POWER BLOCK)			
POWER BLOCK INVERTER #	CUT VOLUME (CY)	FILL VOLUME (CY)	TOPSOIL STRIPPING (CY)
1	3616.0	3,168.7	1,640.8
2	1185.9	1,146.2	397.8
3	681.8	891.0	125.8
4	482.8	694.9	70.9
5	640.0	635.2	14.4
6	937.4	1,115.5	260.7
7	720.5	680.5	46.3
8	1303.7	1,263.0	264.3
9	1246.2	1,388.2	331.6
10	726.3	800.1	157.9
11	1174.5	1,332.7	315.5
12	455.3	369.1	-
13	6597.2	1,220.0	2,208.1
14	5323.5	1,082.6	1,683.1
15	1515.0	1,335.5	520.3
16	601.8	418.5	7.7
17	496.4	515.6	33.7
18	786.8	912.1	165.5
19	831.8	873.7	213.3
20	702.7	608.0	99.9
21	539.5	453.9	48.4
22	764.8	704.8	141.6
23	3413.3	1,065.8	1,140.6
24	793.7	581.8	106.4
25	1096.3	1,074.2	326.8
26	1670.6	1,746.4	736.8
27	331.1	304.7	2.5
28	991.9	963.4	189.0
29	1419.8	1,176.6	315.0
30	2319.0	2,305.3	894.5
31	1844.1	1,435.3	520.5
32	1964.9	2,113.8	656.2
33	834.4	1,059.9	244.5
34	554.8	515.7	3.7
35	1271.7	1,151.8	338.6
36	1311.8	1,134.7	213.8
37	2159.1	1,809.0	931.9
38	413.8	495.8	17.3
39	791.7	1,876.1	517.8
40	1405.2	1,338.0	335.8
41	866.3	795.0	40.9
42	338.7	435.7	6.7
43	578.6	526.3	38.9
44	517.4	610.0	51.4
45	1066.9	931.6	112.6
46	3263.5	1,954.8	1,189.8
47	7916.6	2,371.9	2,095.9
48	1196.4	1,290.1	360.1
49	1391.1	1,367.2	327.4
50	648.1	665.0	143.5
51	1450.4	1,587.2	427.5
52	853.5	577.6	116.4
53	1378.3	4,494.6	1,259.7
54	1839.1	1,674.7	569.7

EARTHWORK SUMMARY (BY POWER BLOCK)			
POWER BLOCK INVERTER #	CUT VOLUME (CY)	FILL VOLUME (CY)	TOPSOIL STRIPPING (CY)
55	1773.3	7,114.5	2,284.2
56	1037.3	1,018.3	196.1
57	160.2	2,712.3	643.4
58	1410.3	3,241.7	733.3
59	1154.5	4,012.1	892.3
60	1130.2	3,852.5	621.8
61	1230.8	7,485.5	1,146.6
62	1847.2	2,922.6	1,068.4
63	1476.3	1,918.1	617.1
64	1433.1	2,112.0	621.0
65	894.5	733.1	147.6
66	380.9	734.6	137.5
67	845.6	1,177.8	261.1
68	863.9	1,017.0	224.9
69	1038.6	1,325.0	263.7
70	621.3	1,246.8	259.4
71	1723.3	2,116.9	635.0
72	747.2	773.3	170.7
73	1322.9	1,310.1	467.6
74	725.7	924.1	201.1
75	1617.5	1,317.3	440.0
76	592.7	552.9	0.6
77	1161.0	1,106.6	342.3
78	2343.6	2,499.5	924.0
79	939.2	1,071.7	147.5
80	566.2	694.4	25.9
81	590.8	655.6	47.5
82	836.0	1,401.6	348.4
83	1974.0	6,634.8	1,825.6
84	762.5	704.7	56.5
85	2461.4	2,087.5	983.8
86	6814.1	1,666.7	2,218.2
87	5841.6	2,140.6	1,904.7
88	1545.0	1,731.6	496.7
89	3276.1	3,285.6	1,570.7
90	1701.3	1,872.3	593.2
91	591.2	743.1	90.1
92	984.1	1,328.0	313.9
93	1054.4	1,027.9	270.6
94	804.4	1,028.2	84.8
95	1001.0	1,014.6	117.1
96	917.0	755.3	100.4
97	2273.5	2,787.1	1,307.7
98	754.6	663.5	118.9
99	1391.5	1,284.9	289.2
100	1039.6	940.1	240.7
101	901.0	714.4	82.6
102	451.2	325.7	44.7
103	515.3	630.9	18.2
104	3832.5	3,783.8	1,947.4
105	2020.2	1,661.4	698.4
106	2249.8	2,403.3	1,154.8
107	2305.3	1,880.3	892.1
108	14490.1	10,130.4	5,179.1

EARTHWORK SUMMARY (BY POWER BLOCK)			
POWER BLOCK INVERTER #	CUT VOLUME (CY)	FILL VOLUME (CY)	TOPSOIL STRIPPING (CY)
109	1445.6	6,099.2	1,977.5
110	2908.3	3,053.9	1,471.0
111	2515.1	1,875.9	925.6
112	790.8	633.2	30.6
113	837.3	862.1	134.6
114	3527.9	2,990.3	1,561.8
115	3005.4	4,682.7	1,914.8
116	919.0	769.0	204.4
117	5465.3	3,668.5	2,104.8
118	2502.8	2,521.1	1,140.8
119	1989.2	1,694.9	603.7
120	1320.8	1,035.2	307.1
121	1037.4	1,057.3	442.9
122	1369.1	1,151.5	346.4
123	1361.2	1,166.5	437.8
124	840.6	795.4	125.4
125	1694.6	1,569.3	694.8
126	2944.6	3,048.8	1,398.2
127	1345.6	1,159.8	446.7
128	1078.5	814.3	196.0
129	2606.8	2,899.0	1,345.1
130	937.5	892.3	234.1
131	1451.0	1,257.5	389.0
132	1476.7	1,340.6	297.7
133	2031.1	1,970.3	686.9
134	632.4	733.3	40.8
135	2716.1	2,709.6	1,256.2
136	1471.0	1,699.9	416.7
137	1087.7	885.9	157.2
138	1931.4	1,467.6	581.6
139	1136.3	1,022.7	54.0
140	1346.2	1,237.1	409.5
141	1046.1	1,204.8	342.2
142	1583.6	1,423.8	602.5
143	598.6	459.3	25.4
144	925.1	948.5	62.8
145	561.7	492.5	5.7
146	729.7	618.6	84.5
147	244.4	282.1	-
148	633.2	568.8	56.9
149	468.2	652.3	25.7
150	550.2	383.1	65.5
151	193.2	229.4	0.8
152	273.1	406.5	11.4
153	660.7	543.9	28.7
154	242.2	287.5	-
155	76.6	97.4	-
156	796.3	760.4	78.4
157	767.1	584.1	188.0
158	329.7	334.9	0.2
159	225.7	179.3	-
TOTAL	**240,268.2**	**242,536.4**	**83,361.2**

NOTES:
1. TOPSOIL STRIPPING PROPOSED IN AREAS WITH GREATER THAN 6" OF CUT OR FILL. QUANTITIES PROVIDED IN TABLE ABOVE REFLECT THE APPROXIMATE VOLUME BASED ON AN AVERAGE 4" TOPSOIL DEPTH. CONTRACTOR TO VERIFY TOPSOIL DEPTH BASED ON SITE CONDITIONS.
2. NO SHRINK OR SWELL FACTORS HAVE BEEN ACCOUNTED FOR IN THE ABOVE QUANTITIES.

FOX SQUIRREL SOLAR, LLC.
Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
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www.ulteig.com

Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

PV ARRAY EARTHWORK SUMMARY

REVISION:
C
DRAWING:
FSSP-SG0-C-GRD0-G006

INVERTER SCHEDULE

INVERTER #	NORTHING	EASTING	EXISTING GRADE (EG)	TOP OF PILE	INUNDATION DEPTH (FT)	TOP OF SUBGRADE	BOTTOM OF SLAB
F11A-1	655723.85	1735698.71	949.99	952.31	0.242	951.97	948.81
F11A-2	655723.85	1734917.93	954.29	956.47	0.078	956.14	952.97
F11A-3	655723.85	1734137.15	953.69	955.69	0.052	955.35	952.19
F11A-4	655723.85	1733356.37	952.69	954.81	0.658	954.47	951.31
F11A-5	655723.85	1732575.59	953.00	955.19	0.332	954.85	951.69
F11A-6	655723.85	1731794.81	955.13	957.55	0.168	957.21	954.05
F11A-7	655723.85	1731014.03	955.47	957.48	0.245	957.15	953.98
F11B-8	654854.99	1736330.77	945.51	947.65	0.309	947.32	944.15
F11B-9	654854.99	1735680.12	952.60	954.71	0.200	954.38	951.21
F11B-10	654854.99	1734899.34	953.49	955.54	0.054	955.21	952.04
F11B-11	654854.99	1734118.56	955.11	957.11	0.091	956.78	953.61
F11B-12	654854.99	1733337.78	952.43	954.46	1.102	954.12	950.96
F11B-13	654854.99	1731218.52	953.68	956.00	1.636	955.67	952.50
F11B-14	654854.99	1730512.1	959.68	961.74	0.039	961.40	958.24
F12B-15	653986.13	1736367.95	947.27	949.42	0.399	949.09	945.92
F12B-16	653986.13	1735735.89	951.28	953.29	0.199	952.96	949.79
F12A-17	653986.13	1735085.24	951.47	953.48	0.475	953.15	949.98
F12A-18	653986.13	1734304.46	954.27	956.31	0.040	955.98	952.81
F12A-19	654074.46	1733505.09	954.00	956.00	0.049	955.67	952.50
F12A-20	654074.46	1732482.64	952.12	954.13	0.480	953.79	950.63
F12A-21	654074.46	1731943.53	953.65	955.73	0.102	955.40	952.23
F12A-22	653986.13	1731292.88	954.31	956.40	0.343	956.07	952.90
F12A-23	653986.13	1730512.1	955.15	957.18	1.977	956.84	953.68
F13A-24	653117.27	1735401.27	950.51	952.53	0.645	952.20	949.03
F13A-25	653117.27	1734639.08	951.51	953.51	0.380	953.18	950.01
F12B-26	653117.27	1733858.3	954.11	956.34	0.085	956.01	952.84
F12B-27	653117.27	1732724.31	953.03	955.10	0.053	954.77	951.60
F12B-28	653117.27	1731943.53	953.40	955.52	0.075	955.19	952.02
F12B-29	653117.27	1731162.75	957.00	959.00	0.116	958.67	955.50
F12B-30	653117.27	1730196.07	960.26	962.29	0.043	961.95	958.79
F13B-31	652248.4	1734992.29	951.00	953.00	0.172	952.67	949.50
F13B-32	652248.4	1734211.51	955.38	957.41	0.057	957.08	953.91
F13A-33	652248.4	1733412.14	951.73	953.83	0.157	953.50	950.33
F13A-34	652248.4	1732203.79	949.10	951.15	0.912	950.82	947.65
F13A-35	652248.4	1731423.01	954.92	957.00	0.143	956.66	953.50
F13A-36	652248.4	1730642.23	959.51	961.51	0.058	961.18	958.01
F13A-37	652248.4	1729954.4	957.35	959.35	0.108	959.01	955.85
F22B-38	651379.54	1735475.63	950.96	952.96	0.055	952.63	949.46
F22B-39	651379.54	1734824.98	948.67	950.83	1.063	950.50	947.33
F22B-40	651379.54	1734044.2	952.12	954.20	0.084	953.86	950.70
F13B-41	651379.54	1733263.42	954.11	956.24	0.048	955.90	952.74
F13B-42	651379.54	1732166.61	950.46	952.56	0.080	952.22	949.06
F13B-43	651379.54	1731367.24	952.51	954.51	0.227	954.17	951.01
F13B-44	651379.54	1730605.05	955.22	957.22	0.259	956.89	953.72
F32B-45	650510.68	1736460.9	948.81	950.81	0.148	950.48	947.31
F32B-46	650510.68	1734787.8	949.29	951.40	0.115	951.07	947.90
F22B-47	650510.68	1734137.15	952.76	954.92	0.083	954.58	951.42
F22B-48	650510.68	1733616.63	952.55	954.73	0.060	954.40	951.23
F32B-49	649641.82	1738096.82	947.84	949.84	0.210	949.50	946.34
F32B-50	649730.14	1737260.27	947.55	949.55	0.499	949.21	946.05
F32B-51	649641.82	1736386.54	952.47	954.47	0.025	954.13	950.97
F22B-52	649730.14	1735791.66	948.97	951.01	0.201	950.68	947.51
F22B-53	649730.14	1735252.55	949.25	951.34	0.068	951.00	947.84
F33A-54	648861.28	1737297.45	946.13	948.15	0.112	947.82	944.65
F33A-55	648772.95	1736609.62	947.77	949.77	0.036	949.44	946.27
F33A-56	648772.95	1736070.51	948.33	950.33	0.102	949.99	946.83
F32B-57	648772.95	1735326.91	948.34	950.34	0.329	950.00	946.84
F33A-58	647904.09	1735717.3	949.61	951.87	0.040	951.53	948.37
F33A-59	647904.09	1734936.52	949.00	951.00	0.052	950.67	947.50
F33A-60	647123.56	1734824.98	948.49	950.49	0.249	950.16	946.99
F33A-61	647123.56	1733988.43	950.91	952.91	0.040	952.58	949.41
F22A-62	651166.46	1729523.63	957.00	959.00	0.404	958.67	955.50
F22A-63	650297.59	1730006.97	956.46	958.46	0.286	958.13	954.96
F22A-64	650297.59	1729226.19	960.36	962.36	0.109	962.03	958.86
F22B-65	649428.73	1733018.55	947.03	949.07	1.793	948.74	945.57
F22B-66	649517.06	1732386.49	949.00	951.00	0.701	950.66	947.50
F22B-67	649517.06	1731884.56	950.94	952.94	0.271	952.61	949.44
F22A-68	649517.06	1731364.04	951.82	953.91	0.289	953.58	950.41
F22A-69	649517.06	1730843.52	953.02	955.20	0.176	954.86	951.70
F22A-70	649428.73	1730174.28	955.05	957.05	0.356	956.72	953.55

INVERTER SCHEDULE

INVERTER #	NORTHING	EASTING	EXISTING GRADE (EG)	TOP OF PILE	INUNDATION DEPTH (FT)	TOP OF SUBGRADE	BOTTOM OF SLAB
F22A-71	649428.73	1729393.5	958.79	960.82	0.041	960.48	957.32
F22A-72	649517.06	1728668.49	961.49	963.57	0.069	963.24	960.07
F31A-73	648559.87	1732999.96	948.52	950.74	0.193	950.41	947.24
F31A-74	648559.87	1732219.18	951.98	954.00	0.059	953.67	950.50
F31A-75	648559.87	1731438.4	952.58	954.76	0.210	954.42	951.26
F31A-76	648559.87	1730657.62	953.00	955.00	0.047	954.67	951.50
F31A-77	648559.87	1729876.84	956.83	958.94	0.067	958.61	955.44
F31B-78	648559.87	1729096.06	961.16	963.22	0.033	962.88	959.72
F31B-79	648559.87	1728315.28	961.00	963.00	0.221	962.67	959.50
F31B-80	648559.87	1727701.81	963.36	965.36	0.099	965.03	961.86
F31B-81	648559.87	1727218.47	964.00	966.00	0.037	965.67	962.50
F31A-82	648648.2	1726623.59	961.32	963.46	1.057	963.12	959.96
F31B-83	648559.87	1726623.59	961.43	963.58	0.855	963.25	960.08
F31A-84	648648.2	1725842.81	962.59	964.65	0.753	964.31	961.15
F31B-85	648559.87	1725842.81	961.89	963.95	1.134	963.62	960.45
F31B-86	648559.87	1725062.03	966.00	968.08	0.046	967.75	964.58
F31B-87	648559.87	1724262.66	966.30	968.35	0.047	968.01	964.85
F21A-88	648648.2	1722942.77	970.25	972.27	0.200	971.94	968.77
F21B-89	648648.2	1722422.25	970.00	972.01	0.249	971.68	968.51
F32A-90	647779.33	1732683.93	948.42	950.59	0.218	950.25	947.09
F32A-91	647691.01	1731903.15	951.21	953.31	0.162	952.98	949.81
F32A-92	647691.01	1731252.5	953.36	955.46	0.073	955.12	951.96
F32A-93	647691.01	1730731.98	951.19	953.19	0.700	952.86	949.69
F32A-94	647691.01	1730211.46	951.76	953.82	0.941	953.49	950.32
F32A-95	647691.01	1729672.35	953.64	955.68	0.225	955.34	952.18
F32A-96	647691.01	1728928.75	956.47	958.48	0.459	958.14	954.98
F32A-97	647691.01	1728278.1	960.76	962.77	0.031	962.43	959.27
F21B-98	649848.16	1722478.02	974.74	976.74	0.063	976.41	973.24
F21B-99	649848.16	1721697.24	975.96	977.98	0.325	977.65	974.48
F21B-100	650717.03	1721957.5	976.57	978.60	0.084	978.26	975.10
F21B-101	650717.03	1721176.72	978.12	980.20	0.093	979.87	976.70
F21B-102	652762.9	1721742.68	977.75	979.75	0.340	979.42	976.25
F21B-103	652762.9	1721203.57	977.55	979.65	0.447	979.32	976.15
F41A-104	648002.05	1721363.34	975.90	977.90	0.076	977.56	974.40
F41A-105	648002.05	1720489.61	974.74	976.81	0.060	976.48	973.31
F41A-106	648228.88	1719597.29	975.52	977.52	0.169	977.18	974.02
F41A-107	648228.88	1718797.93	979.34	981.43	0.144	981.10	977.93
F41A-108	649009.41	1720898.59	974.25	976.41	0.048	976.07	972.91
F41A-109	649009.41	1720285.13	973.47	975.52	0.124	975.18	972.02
F41A-110	649097.74	1719653.06	977.18	979.32	0.024	978.98	975.82
F41B-111	645691.45	1718124.85	980.43	982.43	0.229	982.10	978.93
F41B-112	645691.45	1717548.56	983.14	985.21	0.397	984.88	981.71
F41B-113	645691.45	1717046.64	983.59	985.65	0.392	985.32	982.15
F42A-114	646471.98	1716433.17	987.89	990.00	0.181	989.67	986.50
F42A-115	646471.98	1715466.49	986.50	988.73	0.172	988.40	985.23
F42A-116	646471.98	1714667.11	987.53	989.56	0.664	989.23	986.06
F41B-117	647340.84	1715745.33	986.30	988.41	0.098	988.08	984.91
F41B-118	647429.17	1715076.09	988.79	991.09	0.193	990.75	987.59
F42A-119	647429.17	1714518.4	990.38	992.41	0.094	992.08	988.91
F42A-120	649515.76	1714662.06	992.12	994.12	0.073	993.78	990.62
F41B-121	650934.95	1718290.48	980.68	982.72	0.142	982.38	979.22
F41B-122	650846.62	1717546.88	981.42	983.51	0.201	983.17	980.01
F42A-123	650846.62	1716859.05	983.49	985.50	0.376	985.17	982.00
F42A-124	650846.62	1716357.12	985.50	987.50	0.149	987.17	984.00
F42A-125	650846.62	1715836.6	986.46	988.46	0.137	988.12	984.96
F21A-126	653242.55	1718110.7	979.65	981.91	0.487	981.58	978.41
F21A-127	653242.55	1717534.41	982.05	984.05	0.290	983.71	980.55
F21A-128	654111.42	1718073.52	982.18	984.18	0.467	983.85	980.68
F21A-129	654111.42	1717385.69	984.86	986.86	0.024	986.52	983.36
F21A-130	655068.61	1717906.21	986.83	988.89	0.048	988.56	985.39
F21A-131	654980.28	1717311.33	985.51	987.79	0.195	987.46	984.29
F21A-132	654980.28	1716660.68	986.47	988.47	0.223	988.13	984.97
F42B-133	655544.04	1713076.22	996.83	999.09	0.106	998.76	995.59
F42B-134	655455.71	1712295.44	998.55	1000.55	0.067	1000.21	997.05
F42B-135	655455.71	1711533.25	998.92	1001.11	0.156	1000.77	997.61
F42B-136	656412.9	1713559.55	995.67	997.67	0.202	997.33	994.17
F42B-137	656324.57	1712778.77	996.00	998.00	0.531	997.67	994.50
F42B-138	656324.57	1712016.58	996.49	998.49	0.564	998.16	994.99
F44A-139	657193.44	1714247.39	992.79	994.82	0.334	994.49	991.32
F43A-140	657193.44	1713485.2	997.00	999.00	0.089	998.67	995.50

INVERTER SCHEDULE

INVERTER #	NORTHING	EASTING	EXISTING GRADE (EG)	TOP OF PILE	INUNDATION DEPTH (FT)	TOP OF SUBGRADE	BOTTOM OF SLAB
F43A-141	657193.44	1712723	999.74	1002.01	0.085	1001.67	998.51
F43B-142	658194.13	1714005.72	996.00	998.00	0.397	997.67	994.50
F43A-143	658062.3	1713373.66	996.85	999.00	0.233	998.67	995.50
F44A-144	659062.99	1714526.24	994.37	996.43	0.796	996.10	992.93
F43A-145	658975.42	1712927.34	995.59	997.67	1.473	997.33	994.17
F44A-146	659843.52	1718374.36	988.90	990.96	0.052	990.62	987.46
F44A-147	659843.52	1717612.18	987.50	989.50	0.241	989.17	986.00
F44A-148	659843.52	1716849.99	990.59	992.59	0.134	992.25	989.09
F44A-149	659843.52	1716087.79	991.00	993.00	0.833	992.67	989.50
F44A-150	659843.52	1715325.6	993.48	995.60	0.626	995.27	992.10
F43B-151	660800.71	1718504.5	989.00	991.08	0.211	990.75	987.58
F43B-152	660800.71	1717983.98	988.65	990.65	0.162	990.31	987.15
F43B-153	660800.71	1717482.04	990.00	992.00	0.204	991.67	988.50
F43B-154	660800.71	1716961.52	992.39	994.39	0.135	994.06	990.89
F43B-155	660800.71	1716459.59	992.52	994.53	0.981	994.19	991.03
F43B-156	660712.39	1715790.35	992.80	994.80	0.087	994.46	991.30
F43A-157	660668.82	1714300.81	998.49	1000.49	0.073	1000.16	996.99
F43A-158	661537.69	1715025.82	996.36	998.36	0.186	998.03	994.86
F43A-159	661537.69	1714393.76	997.50	999.51	0.547	999.18	996.01

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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

INVERTER SCHEDULE

REVISION: C

DRAWING: FSSP-SG0-C-GRD0-G007

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MODIFIED SEDIMENT TRAP SCHEDULE

Plan Sheet Name	Sediment Trap ID	Disturbed Area in Drainage Area (AC)	Required Sediment Volume (1,000cfxDisturbance) (CF)	Proposed Depth (FT)
FSSP-SG0-C-GRD5-P001	ST01	9.55	9,551.6	1.5
FSSP-SG0-C-GRD5-P002	ST02	7.62	7,618.6	1.5
FSSP-SG0-C-GRD5-P002	ST03	20.04	20,037.4	1.5
FSSP-SG0-C-GRD5-P002	ST04	27.61	27,613.3	1.5
FSSP-SG0-C-GRD5-P003	ST05	10.37	10,370.3	2
FSSP-SG0-C-GRD5-P003	ST06	8.54	8,539.0	1.5
FSSP-SG0-C-GRD5-P003	ST07	21.94	21,939.6	1.5
FSSP-SG0-C-GRD5-P007	ST08	4.73	4,731.1	1.5
FSSP-SG0-C-GRD5-P009	ST09	12.88	12,881.6	1.5
FSSP-SG0-C-GRD5-P010	ST10	10.77	10,766.4	1.5
FSSP-SG0-C-GRD5-P011	ST11	4.36	4,358.6	1.5
FSSP-SG0-C-GRD5-P011	ST12	6.58	6,580.8	1.5
FSSP-SG0-C-GRD5-P011	ST13	21.32	21,323.2	1.5
FSSP-SG0-C-GRD5-P012	ST14	40.15	40,145.4	1.5
FSSP-SG0-C-GRD5-P012	ST15	9.09	9,087.7	1.5
FSSP-SG0-C-GRD5-P014	ST16	76.57	76,565.2	1.5
FSSP-SG0-C-GRD5-P014	ST17	72.42	72,416.1	1.5
FSSP-SG0-C-GRD5-P015	ST18	40.55	40,551.3	2
FSSP-SG0-C-GRD5-P016	ST19	7.98	7,975.4	1.5
FSSP-SG0-C-GRD5-P016	ST20	13.44	13,438.0	1.5
FSSP-SG0-C-GRD5-P016	ST21	20.17	20,167.3	1.5
FSSP-SG0-C-GRD5-P017	ST22	14.59	14,588.3	1.5
FSSP-SG0-C-GRD5-P017	ST23	48.95	48,950.4	2
FSSP-SG0-C-GRD5-P017	ST24	11.42	11,416.7	2
FSSP-SG0-C-GRD5-P021	ST25	7.14	7,142.6	1.5
FSSP-SG0-C-GRD5-P019 & 20	ST26	12.92	12,923.0	1.5
FSSP-SG0-C-GRD5-P021	ST27	26.62	26,616.9	2

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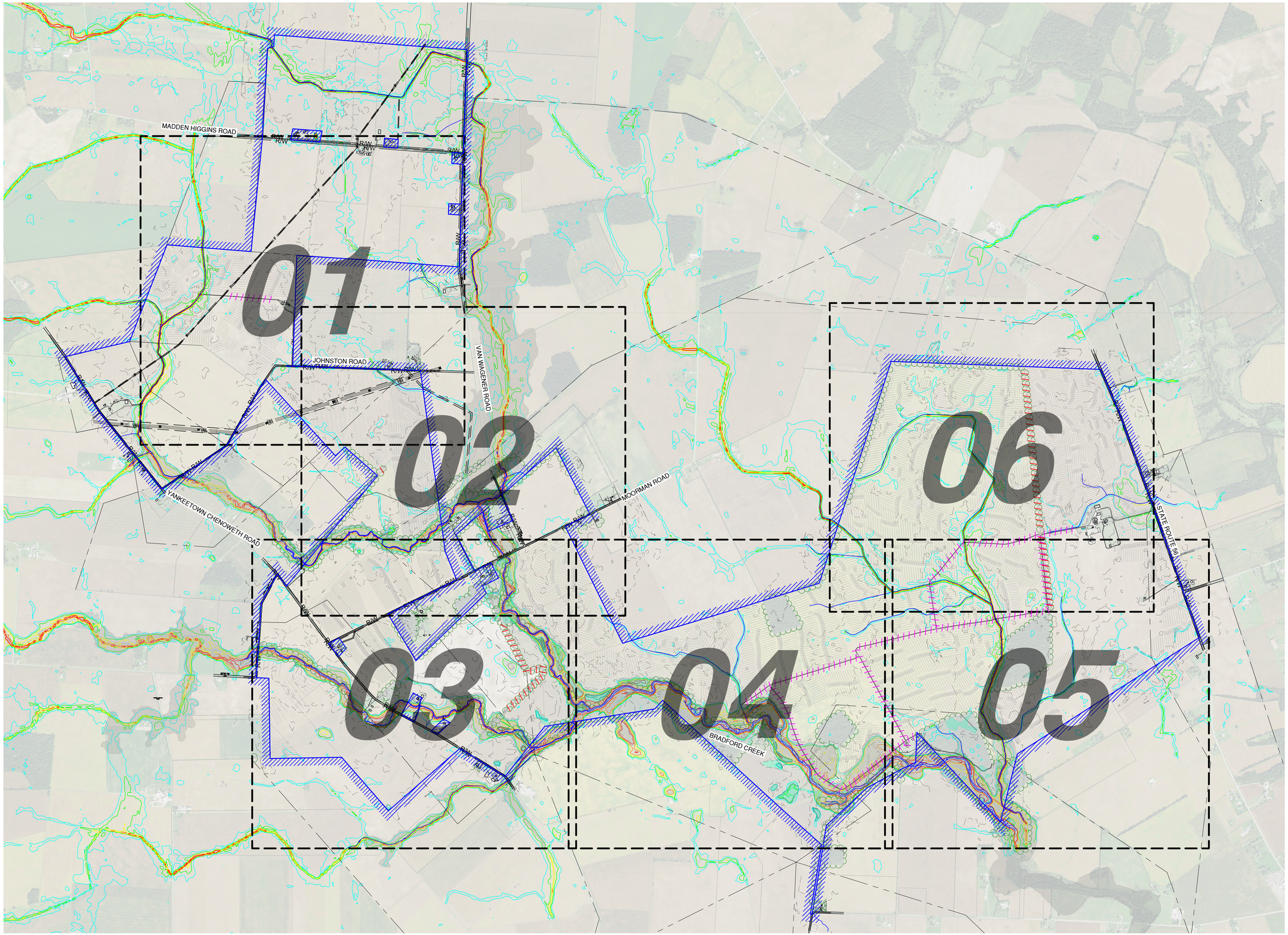
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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

MODIFIED SEDIMENT TRAP SCHEDULE

REVISION:
A
DRAWING:
FSSP-SG0-C-GRD0-G008



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Madison County, Ohio

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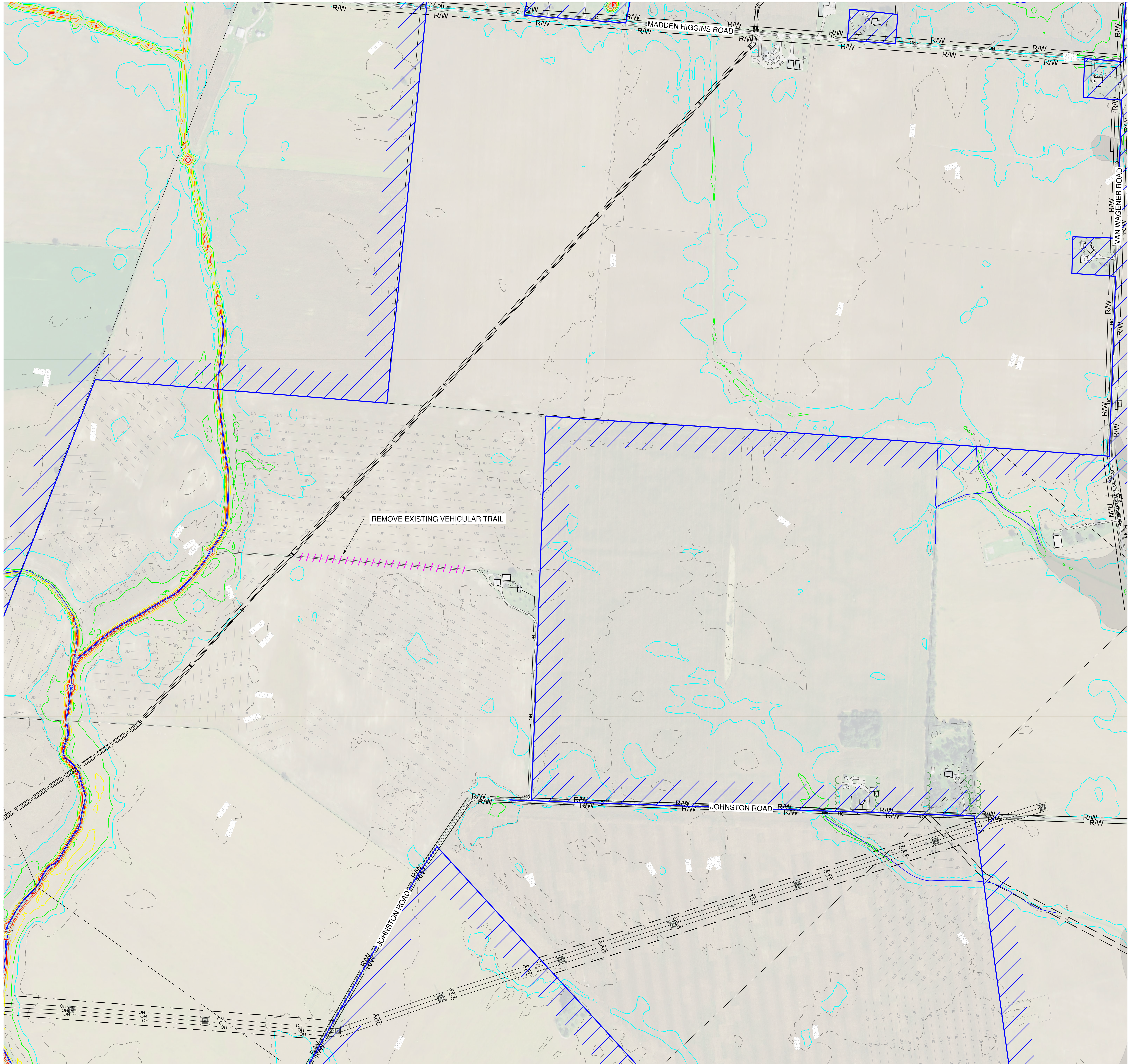
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN INDEX

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD1-G001

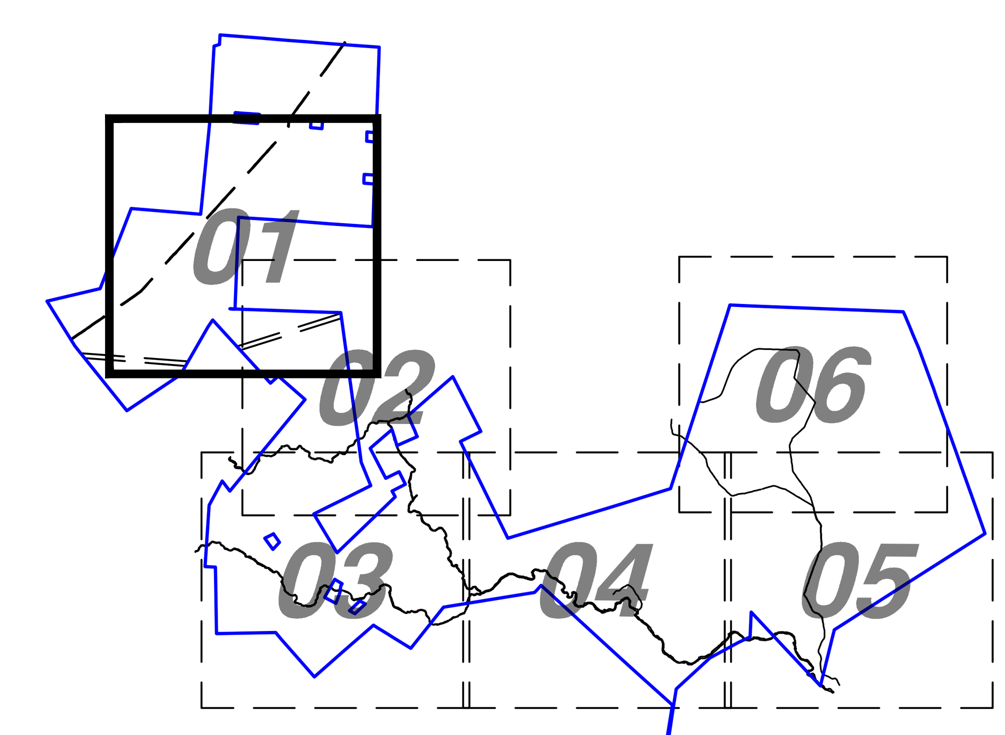
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LEGEND

	PROJECT BOUNDARY
R/W	EXISTING RIGHT OF WAY
	EXISTING PROPERTY BOUNDARY
	EXISTING EASEMENT
	EXISTING VMS LINE
	EXISTING STREAM
	EXISTING TREE LINE
OH	EXISTING OVERHEAD ELECTRIC
F	EXISTING FIBER OPTIC
UD	EXISTING DRAIN TILE
	EXISTING DELINEATED STREAM
	EXISTING CONTOUR - MAJOR
	EXISTING CONTOUR - MINOR
	EXISTING FEMA FLOODPLAIN
	EXISTING DELINEATED WETLAND
	EXISTING TRANSMISSION TOWER
	EXISTING CULVERT
	EXISTING 1 FT INUNDATION DEPTH
	EXISTING 2 FT INUNDATION DEPTH
	EXISTING 3 FT INUNDATION DEPTH
	EXISTING 4 FT INUNDATION DEPTH
	EXISTING 5 FT INUNDATION DEPTH
	REMOVE EXISTING VEHICULAR TRAIL
	CLEAR AND GRUB EXISTING TREES

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KEYMAP

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Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

EXISTING CONDITIONS AND DEMOLITION PLAN 1

REVISION: C

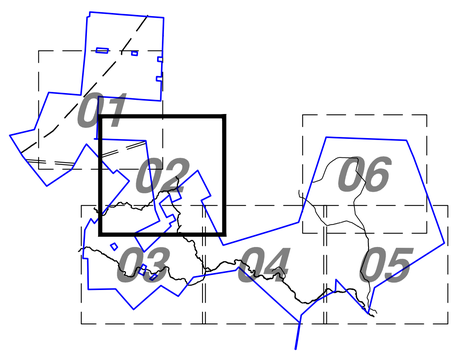
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LEGEND

- PROJECT BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING DRAIN TILE
- EXISTING DELINEATED STREAM
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
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- EXISTING DELINEATED WETLAND
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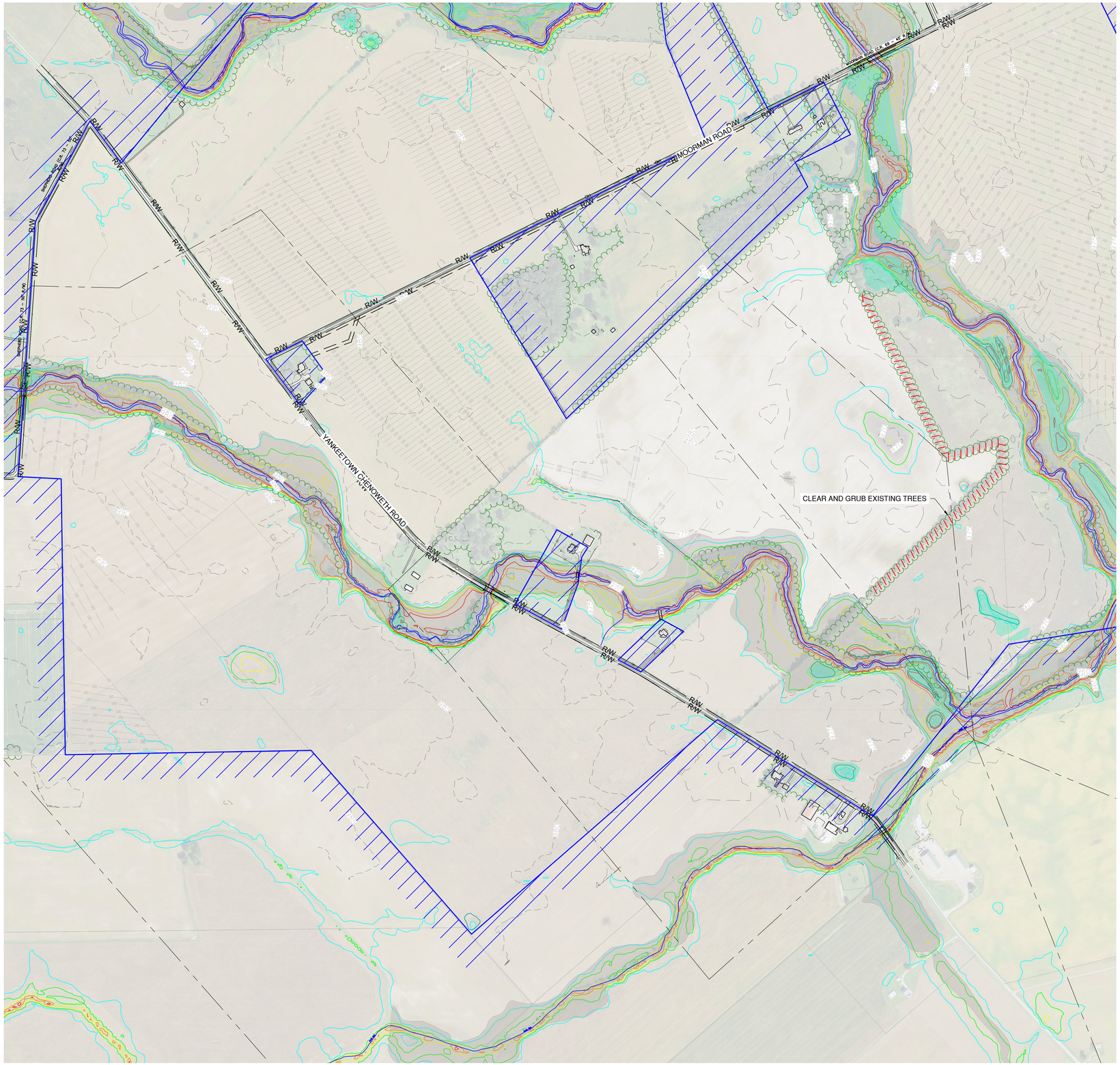
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

EXISTING CONDITIONS AND DEMOLITION PLAN 2

REVISION: C

DRAWING: FSSP-SG0-C-GRD1-P002

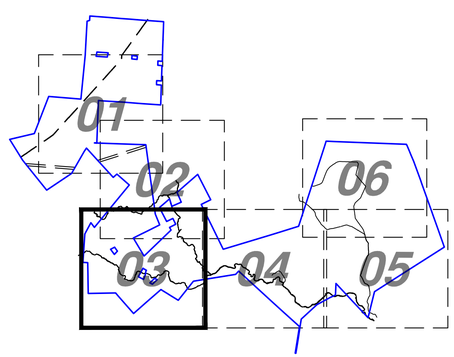
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LEGEND

- PROJECT BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING DRAIN TILE
- EXISTING DELINEATED STREAM
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- EXISTING FEMA FLOODPLAIN
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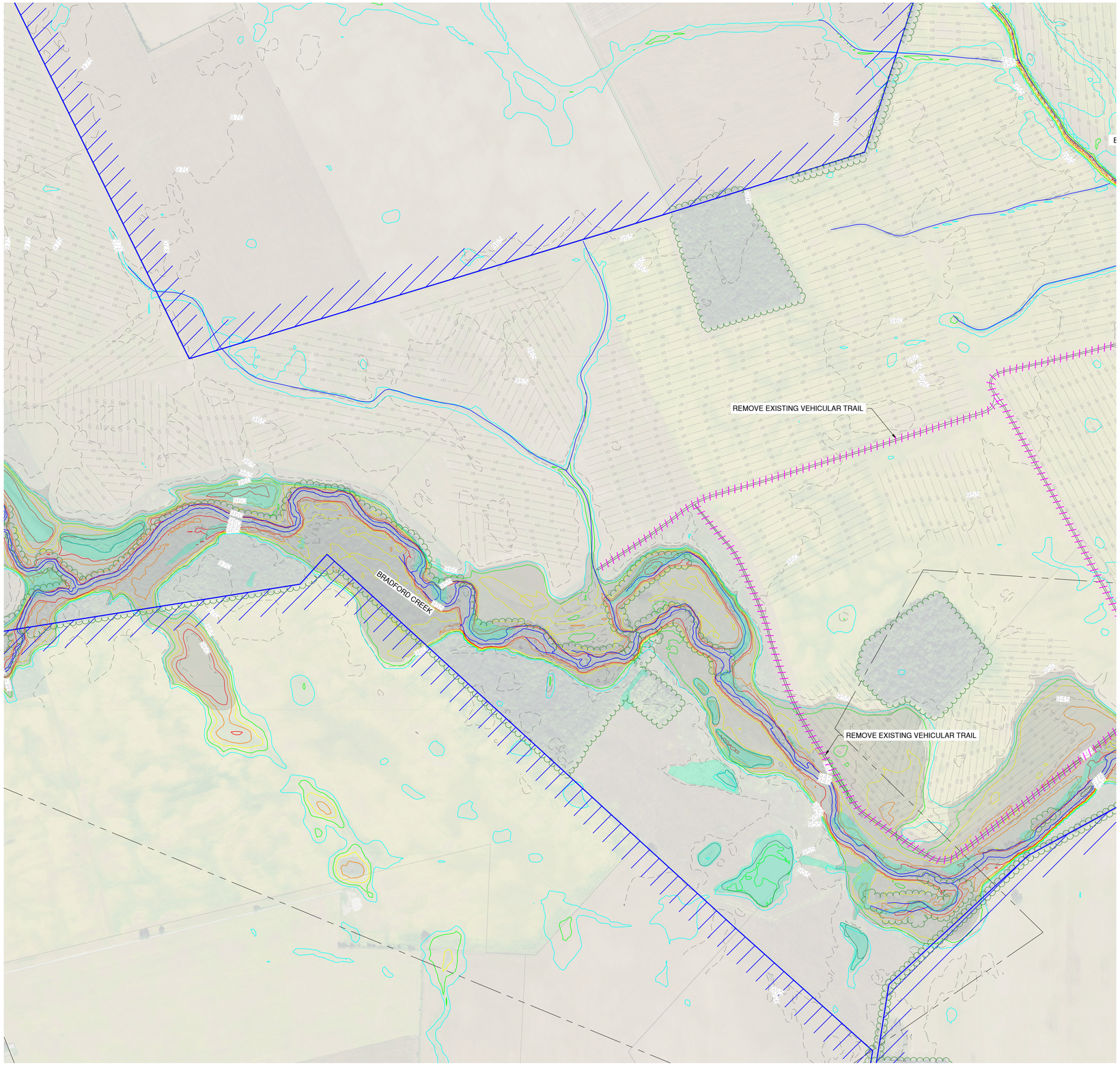
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

EXISTING CONDITIONS AND DEMOLITION PLAN 3

REVISION: C

DRAWING: FSSP-SG0-C-GRD1-P003

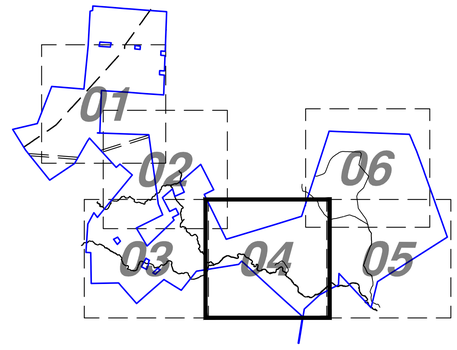
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LEGEND

- PROJECT BOUNDARY
- R/W — EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- OH — EXISTING OVERHEAD ELECTRIC
- F — EXISTING FIBER OPTIC
- UD — EXISTING DRAIN TILE
- EXISTING DELINEATED STREAM
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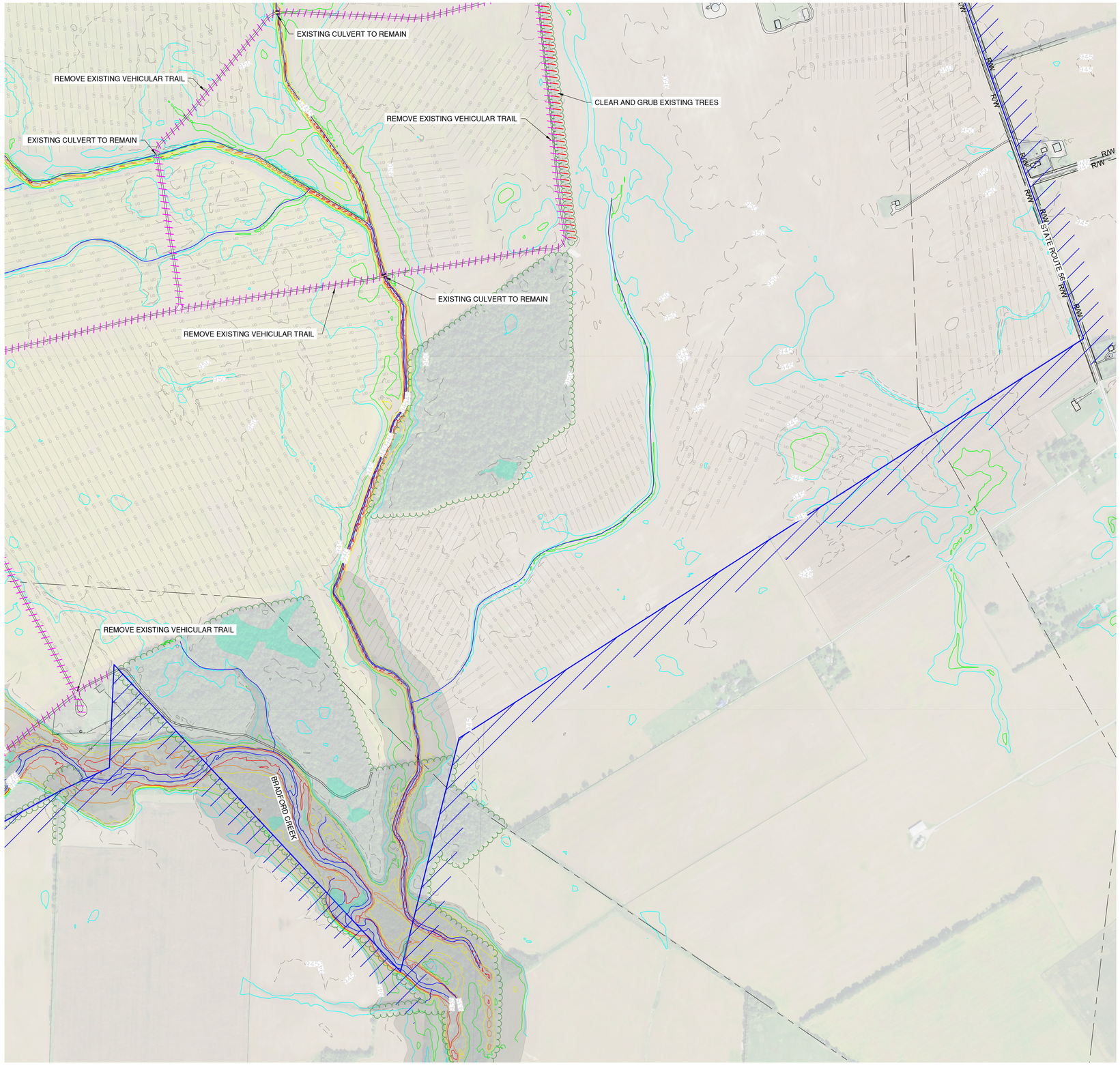
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

EXISTING CONDITIONS AND DEMOLITION PLAN 4

REVISION: C

DRAWING: FSSP-SG0-C-GRD1-P004

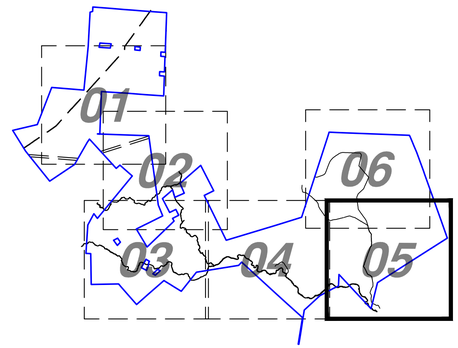
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LEGEND

- PROJECT BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING DRAIN TILE
- EXISTING DELINEATED STREAM
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- EXISTING FEMA FLOODPLAIN
- EXISTING DELINEATED WETLAND
- EXISTING TRANSMISSION TOWER
- EXISTING CULVERT
- EXISTING 1 FT INUNDATION DEPTH
- EXISTING 2 FT INUNDATION DEPTH
- EXISTING 3 FT INUNDATION DEPTH
- EXISTING 4 FT INUNDATION DEPTH
- EXISTING 5 FT INUNDATION DEPTH
- REMOVE EXISTING VEHICULAR TRAIL
- CLEAR AND GRUB EXISTING TREES

NOTE: TREE REMOVAL TO BE COMPLETED FROM OCTOBER 1ST TO MARCH 1ST PER OHIO STATE LAW, UNLESS OTHERWISE DIRECTED BY THE STATE.



KEYMAP

FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

Rev.	Date	Description	By
A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
C	06/27/2022	90% DESIGN SUBMITTAL	TLB

EDF renewables
15445 Innovation Dr
San Diego, CA 92128

BLATTNER ENERGY
392 Co. Rd. 50,
Avon, MN 56310

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NAD 83 Ohio State Planes, South Zone, US Foot

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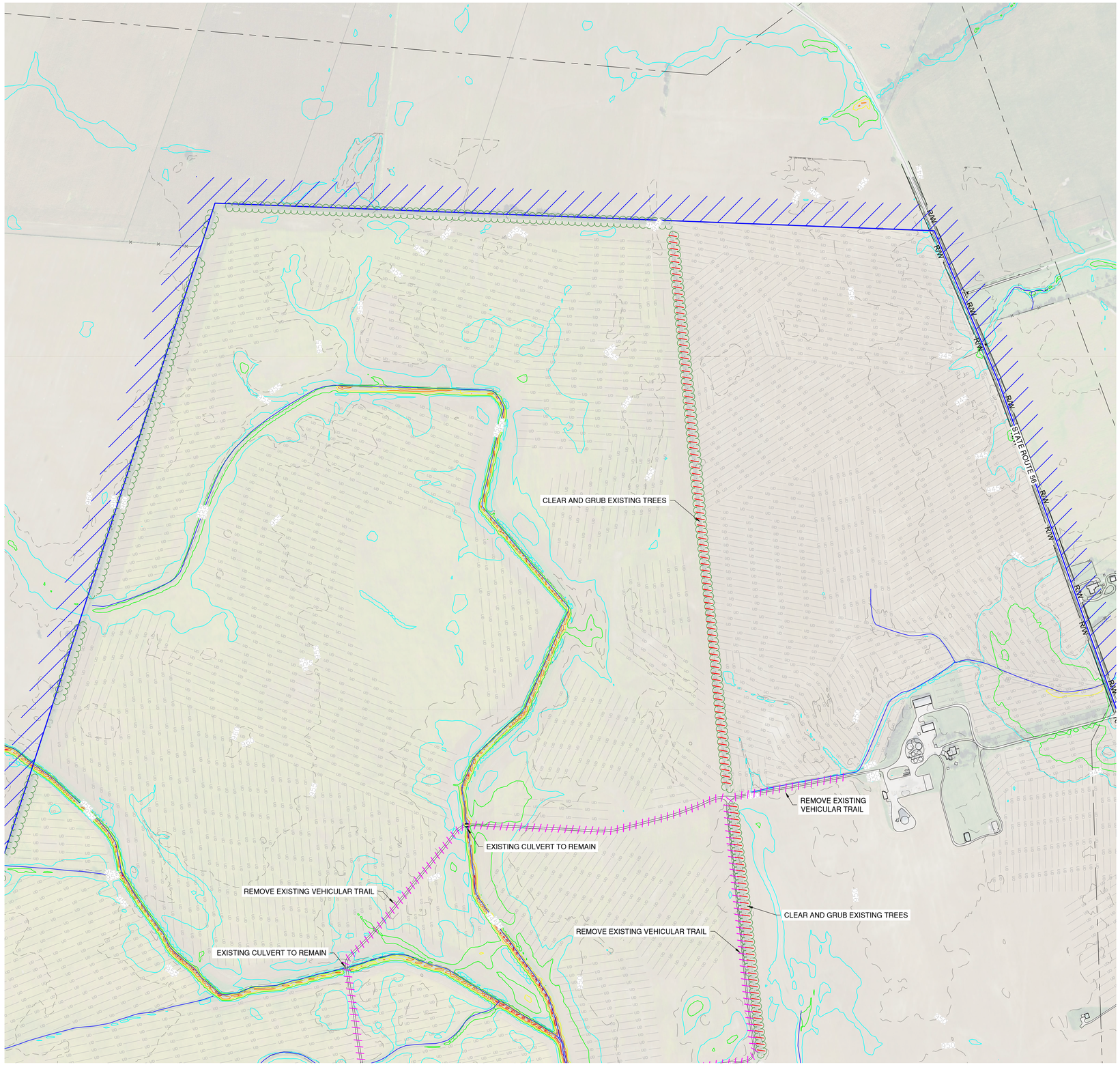
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

EXISTING CONDITIONS AND DEMOLITION PLAN 5

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD1-P005

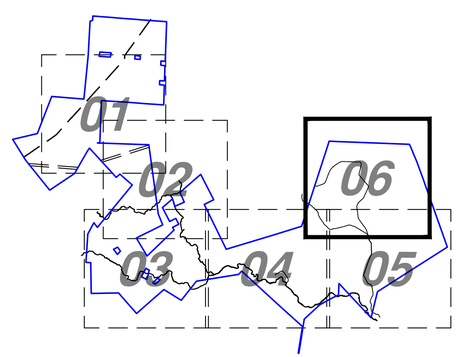
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LEGEND

- PROJECT BOUNDARY
- R/W — EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- OH — EXISTING OVERHEAD ELECTRIC
- F — EXISTING FIBER OPTIC
- UD — EXISTING DRAIN TILE
- EXISTING DELINEATED STREAM
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- EXISTING FEMA FLOODPLAIN
- EXISTING DELINEATED WETLAND
- EXISTING TRANSMISSION TOWER
- EXISTING CULVERT
- EXISTING 1 FT INUNDATION DEPTH
- EXISTING 2 FT INUNDATION DEPTH
- EXISTING 3 FT INUNDATION DEPTH
- EXISTING 4 FT INUNDATION DEPTH
- EXISTING 5 FT INUNDATION DEPTH
- REMOVE EXISTING VEHICULAR TRAIL
- CLEAR AND GRUB EXISTING TREES

NOTE: TREE REMOVAL TO BE COMPLETED FROM OCTOBER 1ST TO MARCH 1ST PER OHIO STATE LAW, UNLESS OTHERWISE DIRECTED BY THE STATE.



KEYMAP

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Madison County, Ohio

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A	03/21/2022	30% DESIGN SUBMITTAL	LEJ
B	05/10/2022	60% DESIGN SUBMITTAL	LEJ
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San Diego, CA 92128

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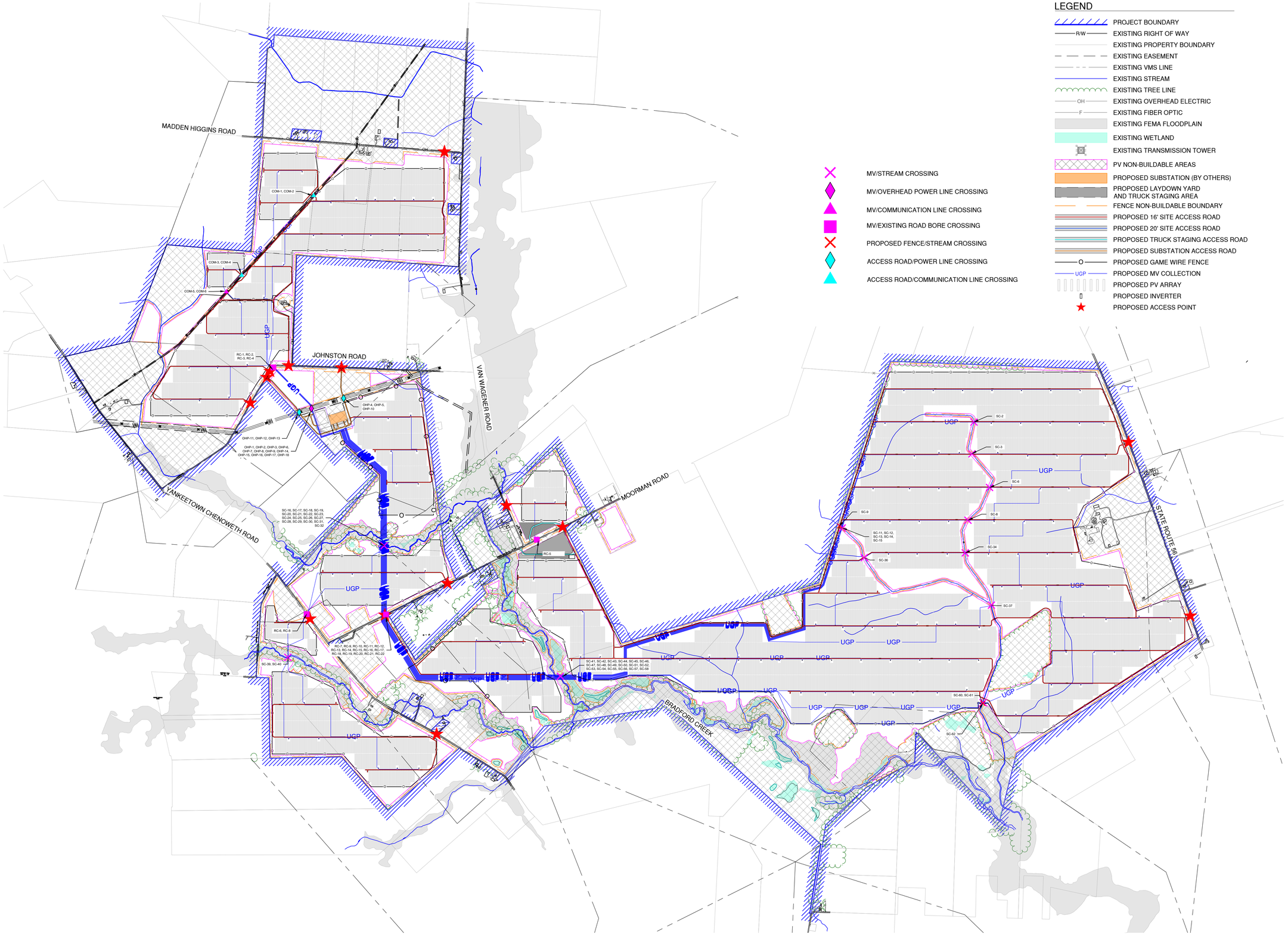
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

EXISTING CONDITIONS AND DEMOLITION PLAN 6

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD1-P006

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LEGEND

- PROJECT BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING FEMA FLOODPLAIN
- EXISTING WETLAND
- EXISTING TRANSMISSION TOWER
- PV NON-BUILDABLE AREAS
- PROPOSED SUBSTATION (BY OTHERS)
- PROPOSED LAYDOWN YARD AND TRUCK STAGING AREA
- FENCE NON-BUILDABLE BOUNDARY
- PROPOSED 16' SITE ACCESS ROAD
- PROPOSED 20' SITE ACCESS ROAD
- PROPOSED TRUCK STAGING ACCESS ROAD
- PROPOSED SUBSTATION ACCESS ROAD
- PROPOSED GAME WIRE FENCE
- PROPOSED MV COLLECTION
- PROPOSED PV ARRAY
- PROPOSED INVERTER
- PROPOSED ACCESS POINT

- MV/STREAM CROSSING
- MV/OVERHEAD POWER LINE CROSSING
- MV/COMMUNICATION LINE CROSSING
- MV/EXISTING ROAD BORE CROSSING
- PROPOSED FENCE/STREAM CROSSING
- ACCESS ROAD/POWER LINE CROSSING
- ACCESS ROAD/COMMUNICATION LINE CROSSING

FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

Rev.	Date	Description	By
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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: A. PAULIK
Approved By: L. JORDAHL

OVERALL UTILITY CROSSING PLAN INDEX

REVISION:
C

DRAWING:
FSSP-SG0-C-UXG0-G001

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UTILITY CROSSINGS SCHEDULE
NAD83 OHIO STATE PLANES, US FOOT

Name	Feature	Utility	Utility Owner	Northing	Easting	Latitude	Longitude	Permit Number	Permit Detail Number	Road Name	Property Owner
COM-1	Access Road-16ft	Communications	AT&T	660898.3336	1715329.206	39.81108061	-83.4012245	TBD	TBD	N/A	Higgins
COM-2	Access Road-16ft	Communications	AT&T	660894.7834	1715333.402	39.81107098	-83.4012095	TBD	TBD	N/A	Higgins
COM-3	Access Road-16ft	Communications	AT&T	658783.4832	1713412.878	39.80522233	-83.40797	TBD	TBD	N/A	Ben-Elen Farms
COM-4	Access Road-16ft	Communications	AT&T	658777.5809	1713419.397	39.80520631	-83.4079466	TBD	TBD	N/A	Ben-Elen Farms
COM-5	MV Line	Communications	AT&T	658338.6897	1713012.352	39.80399024	-83.4093796	TBD	TBD	N/A	Ben-Elen Farms
COM-6	MV Line	Communications	AT&T	658332.8899	1713018.762	39.80397449	-83.4093566	TBD	TBD	N/A	Ben-Elen Farms
OHP-1	MV Line	Overhead Power	TBD	655242.6412	1715282.322	39.79555358	-83.4011905	TBD	TBD	N/A	Summers
OHP-10	Access Road-20ft	Overhead Power	TBD	655293.7747	1715553.301	39.79622593	-83.3981502	TBD	TBD	N/A	Summers
OHP-11	Access Road-20ft	Overhead Power	TBD	655354.0486	1715524.848	39.7953339	-83.4024393	TBD	TBD	N/A	Summers
OHP-12	Access Road-20ft	Overhead Power	TBD	655323.8785	1715539.098	39.79525511	-83.4023723	TBD	TBD	N/A	Summers
OHP-13	Access Road-20ft	Overhead Power	TBD	655293.7747	1715553.301	39.79517677	-83.4023057	TBD	TBD	N/A	Summers
OHP-14	MV Line	Overhead Power	TBD	655277.1345	1715281.643	39.79564825	-83.4011941	TBD	TBD	N/A	Summers
OHP-15	MV Line	Overhead Power	TBD	655274.1191	1715272.108	39.79563971	-83.4012279	TBD	TBD	N/A	Summers
OHP-16	MV Line	Overhead Power	TBD	655271.1037	1715262.573	39.79563117	-83.4012618	TBD	TBD	N/A	Summers
OHP-17	MV Line	Overhead Power	TBD	655268.0883	1715253.039	39.79562263	-83.4012956	TBD	TBD	N/A	Summers
OHP-18	MV Line	Overhead Power	TBD	655245.6575	1715291.856	39.79556212	-83.4011567	TBD	TBD	N/A	Summers
OHP-2	MV Line	Overhead Power	TBD	655239.6248	1715272.787	39.79554504	-83.4012243	TBD	TBD	N/A	Summers
OHP-3	MV Line	Overhead Power	TBD	655236.608	1715263.253	39.79553649	-83.4012581	TBD	TBD	N/A	Summers
OHP-4	Access Road-20ft	Overhead Power	TBD	655354.0486	1715524.848	39.796398	-83.398223	TBD	TBD	N/A	Summers
OHP-5	Access Road-20ft	Overhead Power	TBD	655323.8785	1715539.098	39.79631209	-83.3981868	TBD	TBD	N/A	Summers
OHP-6	MV Line	Overhead Power	TBD	655214.2984	1715302.031	39.79547631	-83.4011193	TBD	TBD	N/A	Summers
OHP-7	MV Line	Overhead Power	TBD	655211.2826	1715292.497	39.79546777	-83.4011532	TBD	TBD	N/A	Summers
OHP-8	MV Line	Overhead Power	TBD	655208.2669	1715282.962	39.79545923	-83.401187	TBD	TBD	N/A	Summers
OHP-9	MV Line	Overhead Power	TBD	655205.2511	1715273.427	39.79545069	-83.4012208	TBD	TBD	N/A	Summers
RC-1	MV Line	Roadway	TBD	656329.5852	1714261.338	39.79850938	-83.4048626	TBD	TBD	Co Hwy 85	N/A
RC-10	MV Line	Roadway	TBD	649764.8381	1717253.518	39.78056988	-83.3939825	TBD	TBD	Moorman Rd	N/A
RC-11	MV Line	Roadway	TBD	649759.8221	1717243.518	39.78055584	-83.3940179	TBD	TBD	Moorman Rd	N/A
RC-12	MV Line	Roadway	TBD	649754.806	1717233.518	39.7805418	-83.3940533	TBD	TBD	Moorman Rd	N/A
RC-13	MV Line	Roadway	TBD	649749.7899	1717223.518	39.78052775	-83.3940887	TBD	TBD	Moorman Rd	N/A
RC-14	MV Line	Roadway	TBD	649744.7739	1717213.518	39.78051371	-83.3941241	TBD	TBD	Moorman Rd	N/A
RC-15	MV Line	Roadway	TBD	649739.7578	1717203.518	39.78049967	-83.3941596	TBD	TBD	Moorman Rd	N/A
RC-16	MV Line	Roadway	TBD	649734.7417	1717193.518	39.78048563	-83.394195	TBD	TBD	Moorman Rd	N/A
RC-17	MV Line	Roadway	TBD	649729.7257	1717183.518	39.78047159	-83.3942304	TBD	TBD	Moorman Rd	N/A
RC-18	MV Line	Roadway	TBD	649724.7096	1717173.518	39.78045754	-83.3942658	TBD	TBD	Moorman Rd	N/A
RC-19	MV Line	Roadway	TBD	649719.6935	1717163.518	39.7804435	-83.3943012	TBD	TBD	Moorman Rd	N/A
RC-2	MV Line	Roadway	TBD	656321.6728	1714255.193	39.79848749	-83.4048842	TBD	TBD	Co Hwy 85	N/A
RC-20	MV Line	Roadway	TBD	649714.6775	1717153.518	39.78042946	-83.3943366	TBD	TBD	Moorman Rd	N/A
RC-21	MV Line	Roadway	TBD	649709.6614	1717143.517	39.78041542	-83.394372	TBD	TBD	Moorman Rd	N/A
RC-22	MV Line	Roadway	TBD	649704.6453	1717133.517	39.78040138	-83.3944074	TBD	TBD	Moorman Rd	N/A
RC-3	MV Line	Roadway	TBD	656313.7604	1714249.049	39.7984656	-83.4049058	TBD	TBD	Co Hwy 85	N/A
RC-4	MV Line	Roadway	TBD	656305.8483	1714242.904	39.79844371	-83.4049274	TBD	TBD	Co Hwy 85	N/A
RC-5	MV Line	Roadway	TBD	651752.6294	1721261.323	39.78613478	-83.3797918	TBD	TBD	Moorman Rd	N/A
RC-6	MV Line	Roadway	TBD	649782.2977	1715142.176	39.78056018	-83.4014952	TBD	TBD	Yankeetown-Chenoweth Rd	N/A
RC-7	MV Line	Roadway	TBD	649774.8703	1717273.518	39.78059796	-83.3939117	TBD	TBD	Moorman Rd	N/A
RC-8	MV Line	Roadway	TBD	649774.2554	1715148.086	39.78053827	-83.4014739	TBD	TBD	Yankeetown-Chenoweth Rd	N/A
RC-9	MV Line	Roadway	TBD	649769.8542	1717263.518	39.78058392	-83.3939471	TBD	TBD	Moorman Rd	N/A
SC-11	MV Line	Stream	TBD	652089.62	1729344.43	39.787273	-83.351041	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-12	MV Line	Stream	TBD	652083.39	1729352.92	39.787256	-83.351011	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-13	MV Line	Stream	TBD	652077.17	1729361.42	39.787239	-83.350980	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-14	MV Line	Stream	TBD	652070.94	1729369.91	39.787222	-83.350950	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-15	MV Line	Stream	TBD	652064.72	1729378.41	39.787205	-83.350920	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-16	MV Line	Stream	TBD	651671.98	1717113.52	39.785802	-83.394548	TBD	TBD	N/A	Messenger
SC-17	MV Line	Stream	TBD	651654.10	1717123.52	39.785753	-83.394512	TBD	TBD	N/A	Messenger
SC-18	MV Line	Stream	TBD	651646.73	1717133.52	39.785733	-83.394476	TBD	TBD	N/A	Messenger
SC-19	MV Line	Stream	TBD	651639.37	1717143.52	39.785713	-83.394440	TBD	TBD	N/A	Messenger
SC-2	MV Line	Stream	TBD	654877.39	1732879.35	39.795016	-83.338555	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-20	MV Line	Stream	TBD	651632.01	1717153.52	39.785693	-83.394404	TBD	TBD	N/A	Messenger
SC-21	MV Line	Stream	TBD	651624.64	1717163.52	39.785673	-83.394368	TBD	TBD	N/A	Messenger
SC-22	MV Line	Stream	TBD	651617.28	1717173.52	39.785653	-83.394332	TBD	TBD	N/A	Messenger
SC-23	MV Line	Stream	TBD	651609.92	1717183.52	39.785633	-83.394297	TBD	TBD	N/A	Messenger
SC-24	MV Line	Stream	TBD	651602.56	1717193.52	39.785613	-83.394261	TBD	TBD	N/A	Messenger
SC-25	MV Line	Stream	TBD	651596.73	1717263.52	39.785599	-83.394011	TBD	TBD	N/A	Messenger
SC-26	MV Line	Stream	TBD	651596.69	1717253.52	39.785599	-83.394047	TBD	TBD	N/A	Messenger
SC-27	MV Line	Stream	TBD	651595.57	1717243.52	39.785595	-83.394083	TBD	TBD	N/A	Messenger
SC-28	MV Line	Stream	TBD	651595.1941	1717203.518	39.78559316	-83.3942249	TBD	TBD	N/A	Messenger
SC-29	MV Line	Stream	TBD	651594.4634	1717233.518	39.78559197	-83.3941182	TBD	TBD	N/A	Messenger
SC-3	MV Line	Stream	TBD	654035.02	1732824.86	39.792702	-83.338721	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-30	MV Line	Stream	TBD	651593.3525	1717223.518	39.78558865	-83.3941537	TBD	TBD	N/A	Messenger
SC-31	MV Line	Stream	TBD	651592.2413	1717213.518	39.78558533	-83.3941892	TBD	TBD	N/A	Messenger
SC-32	MV Line	Stream	TBD	651580.7679	1717273.518	39.78555546	-83.3939753	TBD	TBD	N/A	Messenger
SC-34	MV Line	Stream	TBD	651401.9372	1732646.891	39.78546959	-83.3392674	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-36	MV Line	Stream	TBD	651275.9864	1729963.943	39.78505498	-83.3488097	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-37	MV Line	Stream	TBD	650015.1962	1733342.366	39.78168044	-83.336747	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-39	MV Line	Stream	TBD	648632.1245	1714656.659	39.77738944	-83.4031817	TBD	TBD	N/A	Falkenhainer Family Trust
SC-40	MV Line	Stream	TBD	648629.409	1714646.659	39.77738171	-83.4032172	TBD	TBD	N/A	Falkenhainer Family Trust

UTILITY CROSSINGS SCHEDULE
NAD83 OHIO STATE PLANES, US FOOT

Name	Feature	Utility	Utility Owner	Northing	Easting	Latitude	Longitude	Permit Number	Permit Detail Number	Road Name	Property Owner
SC-41	MV Line	Stream	TBD	648164.444	1721731.528	39.77629713	-83.3779946	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-42	MV Line	Stream	TBD	648154.444	1721738.081	39.77626985	-83.3779709	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-43	MV Line	Stream	TBD	648144.4441	1721744.635	39.77624258	-83.3779473	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-44	MV Line	Stream	TBD	648144.4441	1721849.47	39.77624538	-83.3775743	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-45	MV Line	Stream	TBD	648144.4441	1721878.405	39.77624615	-83.3774713	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-46	MV Line	Stream	TBD	648134.4441	1721751.188	39.7762153	-83.3779236	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-47	MV Line	Stream	TBD	648134.4441	1721799.579	39.77621659	-83.3777514	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-48	MV Line	Stream	TBD	648134.4441	1721884.004	39.77621884	-83.3774511	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-49	MV Line	Stream	TBD	648124.4441	1721889.602	39.77619154	-83.3774308	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-50	MV Line	Stream	TBD	648114.4438	1721895.201	39.77616424	-83.3774105	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-51	MV Line	Stream	TBD	648104.4438	1721900.799	39.77613694	-83.3773903	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-52	MV Line	Stream	TBD	648094.4438	1721906.397	39.77610963	-83.37737	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-53	MV Line	Stream	TBD	648084.4439	1721911.996	39.77608233	-83.3773498	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-54	MV Line	Stream	TBD	648074.4439	1721918.281	39.77605505	-83.377327	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-55	MV Line	Stream	TBD	648064.4439	1721924.754	39.77602777	-83.3773037	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-56	MV Line	Stream	TBD	648054.4439	1721931.227	39.77600049	-83.3772803	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-57	MV Line	Stream	TBD	648044.4439	1721937.699	39.77597321	-83.3772569	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-58	MV Line	Stream	TBD	648034.444	1721944.172	39.77594593	-83.3772335	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-6	MV Line	Stream	TBD	653139.66	1733293.31	39.790256	-83.337025	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-60	MV Line	Stream	TBD	647423.4891	1733119.165	39.77456002	-83.3374556	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-61	MV Line	Stream	TBD	647413.4892	1733116.539	39.7745325	-83.3374647	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-62	Proposed Fence	Stream	TBD	647403.49	1733113.91	39.774505	-83.337474	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-8	MV Line	Stream	TBD	652270.80	1732718.56	39.787857	-83.339041	TBD	TBD	N/A	Lower Gwynne Farms Limited
SC-9	Proposed Fence	Stream	TBD	652117.76	1729305.98	39.787349	-83.351179	TBD	TBD	N/A	Lower Gwynne Farms Limited

FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

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NAD 83 Ohio State Planes, South Zone, US Foot

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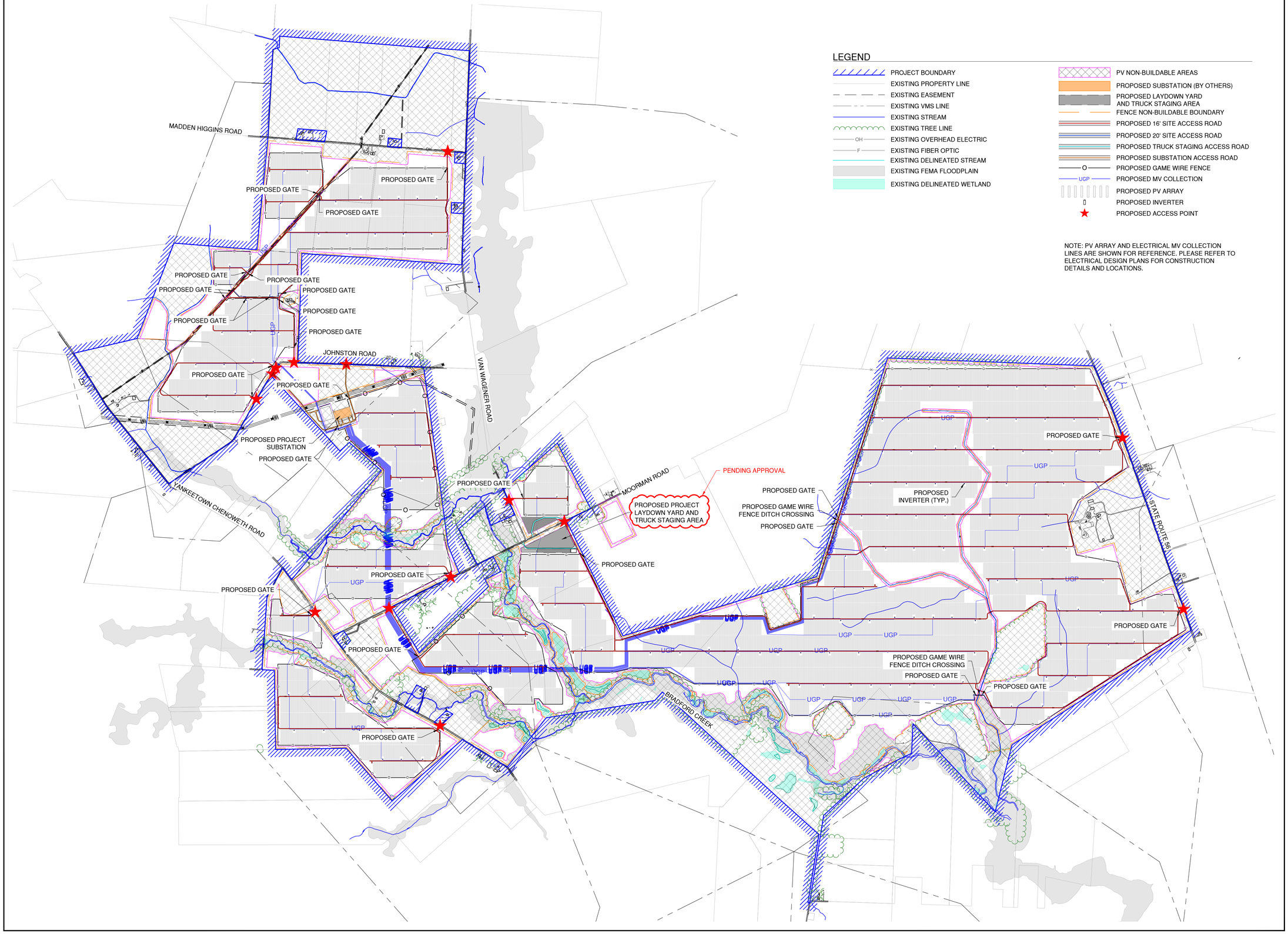
Ulteig
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Fargo, North Dakota 58104
Phone: 701.280.8500
Fax: 701.237.3191
www.ulteig.com

Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: A. PAULIK
Approved By: L. JORDAHL

UTILITY CROSSING PLAN SCHEDULE

REVISION:
C

DRAWING:
FSSP-SG0-C-UXG0-G002



LEGEND

- PROJECT BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING DELINEATED STREAM
- EXISTING FEMA FLOODPLAIN
- EXISTING DELINEATED WETLAND
- PV NON-BUILDABLE AREAS
- PROPOSED SUBSTATION (BY OTHERS)
- PROPOSED LAYDOWN YARD AND TRUCK STAGING AREA
- FENCE NON-BUILDABLE BOUNDARY
- PROPOSED 16' SITE ACCESS ROAD
- PROPOSED 20' SITE ACCESS ROAD
- PROPOSED TRUCK STAGING ACCESS ROAD
- PROPOSED SUBSTATION ACCESS ROAD
- PROPOSED GAME WIRE FENCE
- PROPOSED MV COLLECTION
- PROPOSED PV ARRAY
- PROPOSED INVERTER
- PROPOSED ACCESS POINT

NOTE: PV ARRAY AND ELECTRICAL MV COLLECTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.

FOX SQUIRREL SOLAR, LLC.

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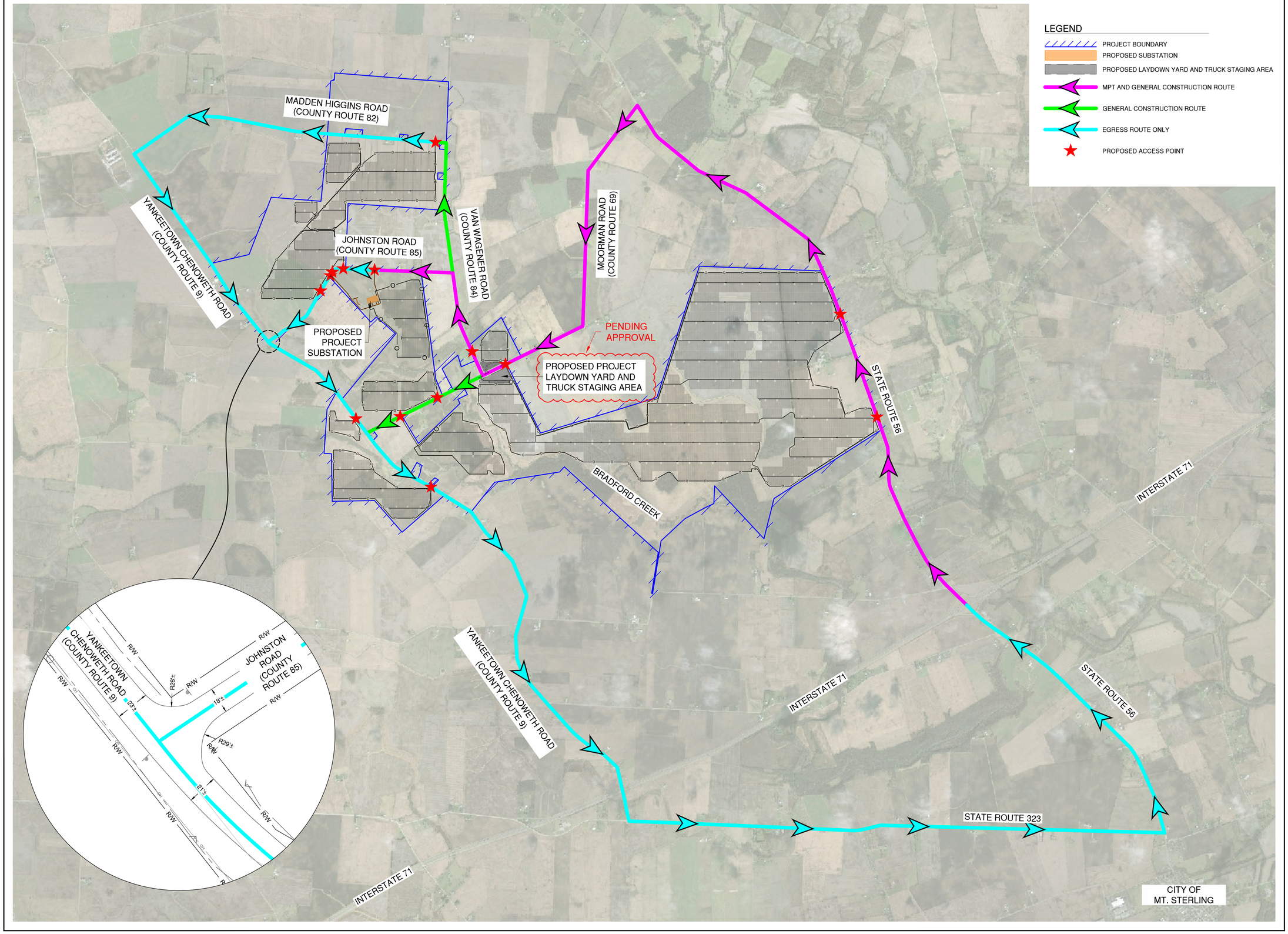
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

OVERALL SITE PLAN

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD2-G001

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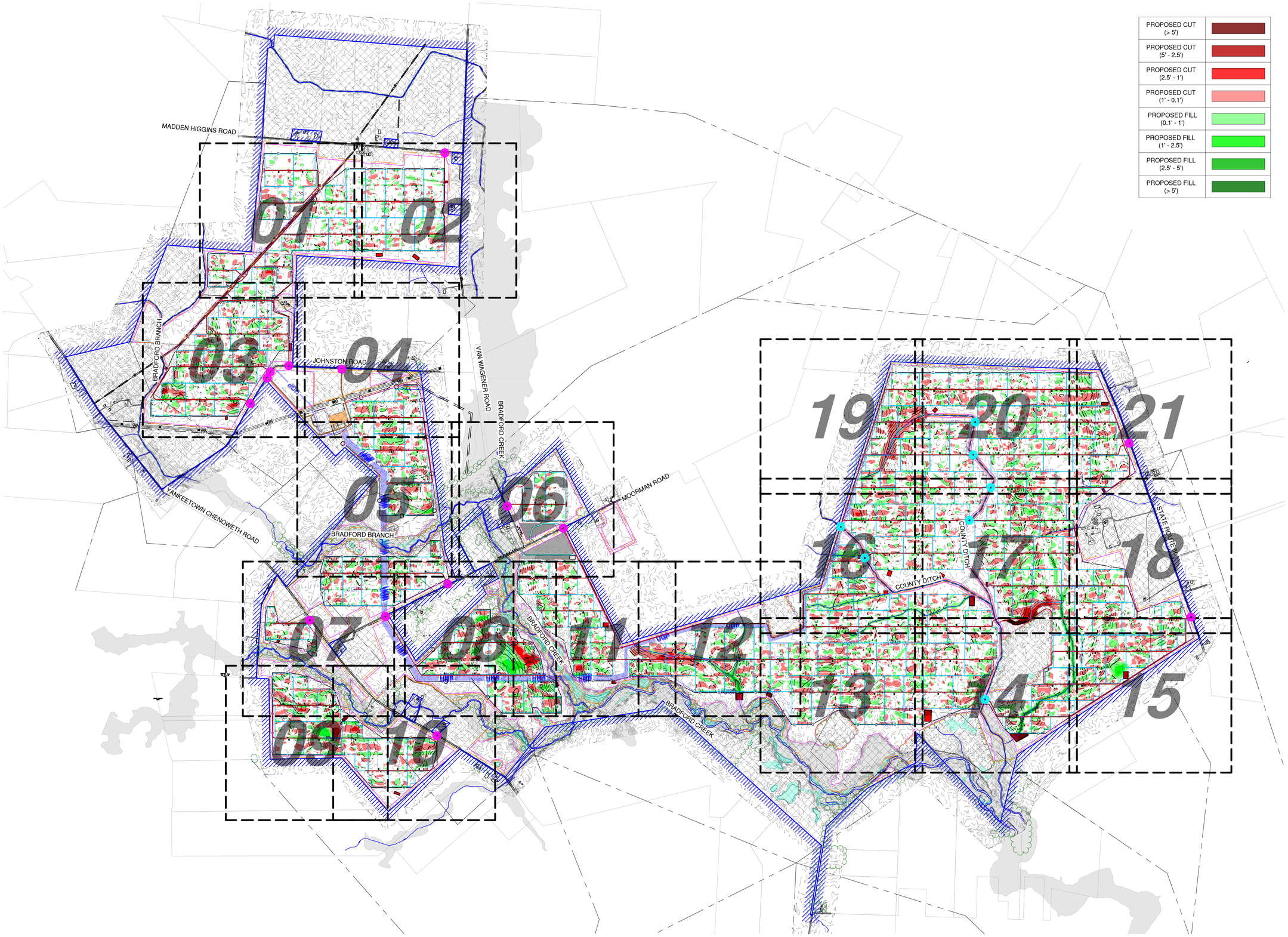
Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

DELIVERY FLOW PLAN

REVISION: B

DRAWING: FSSP-SG0-C-GRD2-G002

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PROPOSED CUT (> 5')	
PROPOSED CUT (5' - 2.5')	
PROPOSED CUT (2.5' - 1')	
PROPOSED CUT (1' - 0.1')	
PROPOSED FILL (0.1' - 1')	
PROPOSED FILL (1' - 2.5')	
PROPOSED FILL (2.5' - 5')	
PROPOSED FILL (> 5')	

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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

OVERALL SITE GRADING PLAN INDEX

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD3-G001

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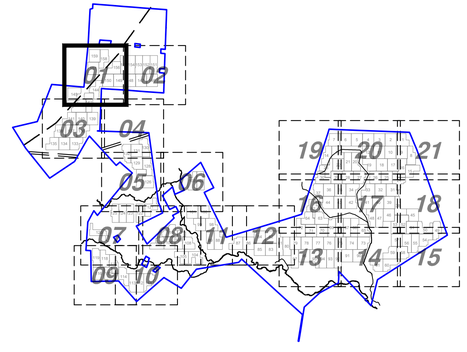


LEGEND

- PROJECT BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING DELINEATED STREAM
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- EXISTING FEMA FLOODPLAIN
- EXISTING DELINEATED WETLAND
- EXISTING TRANSMISSION TOWER
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- PROPOSED PV ARRAY
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- PROPOSED CONTOUR - MINOR
- PROPOSED LOW WATER CROSSING
- PROPOSED PRIVATE CULVERT
- PROPOSED CULVERT (DESIGN BY COUNTY)

NOTE: PV ARRAY AND ELECTRICAL MV COLLECTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.

PROPOSED CUT (> 5')	
PROPOSED CUT (5' - 2.5')	
PROPOSED CUT (2.5' - 1')	
PROPOSED CUT (1' - 0.1')	
PROPOSED FILL (0.1' - 1')	
PROPOSED FILL (1' - 2.5')	
PROPOSED FILL (2.5' - 5')	
PROPOSED FILL (> 5')	



KEYMAP

FOX SQUIRREL SOLAR, LLC.

Madison County, Ohio

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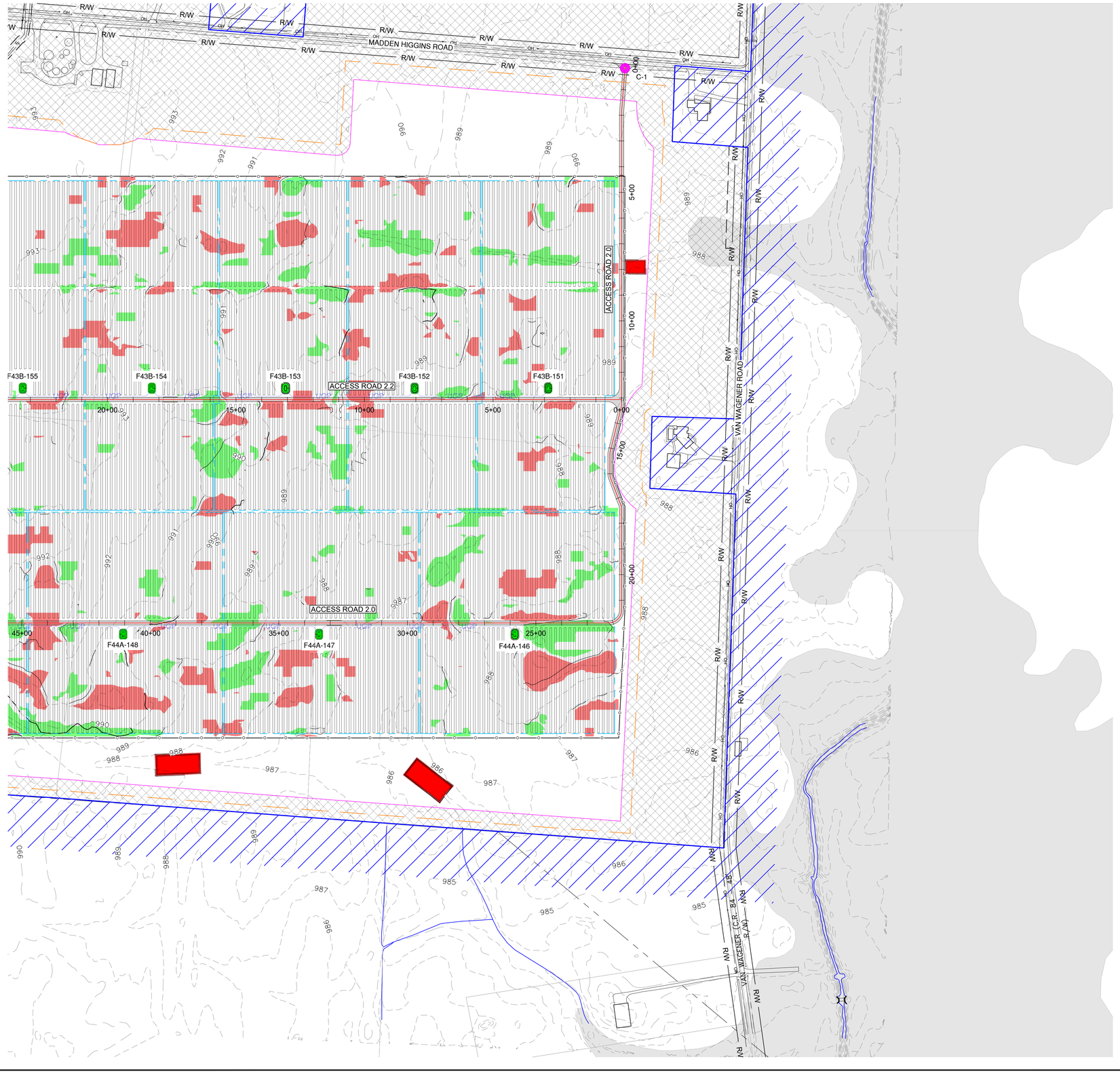
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Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

SITE GRADING PLAN 1

REVISION: C

DRAWING: FSSP-SG0-C-GRD3-P001

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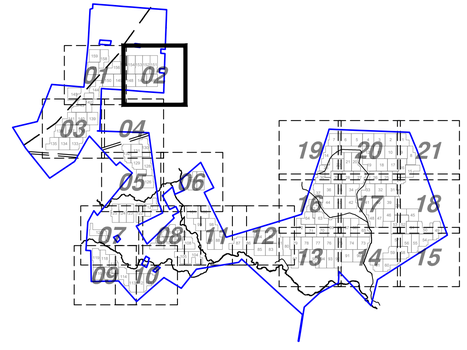


LEGEND

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PROPOSED FILL (> 5')	



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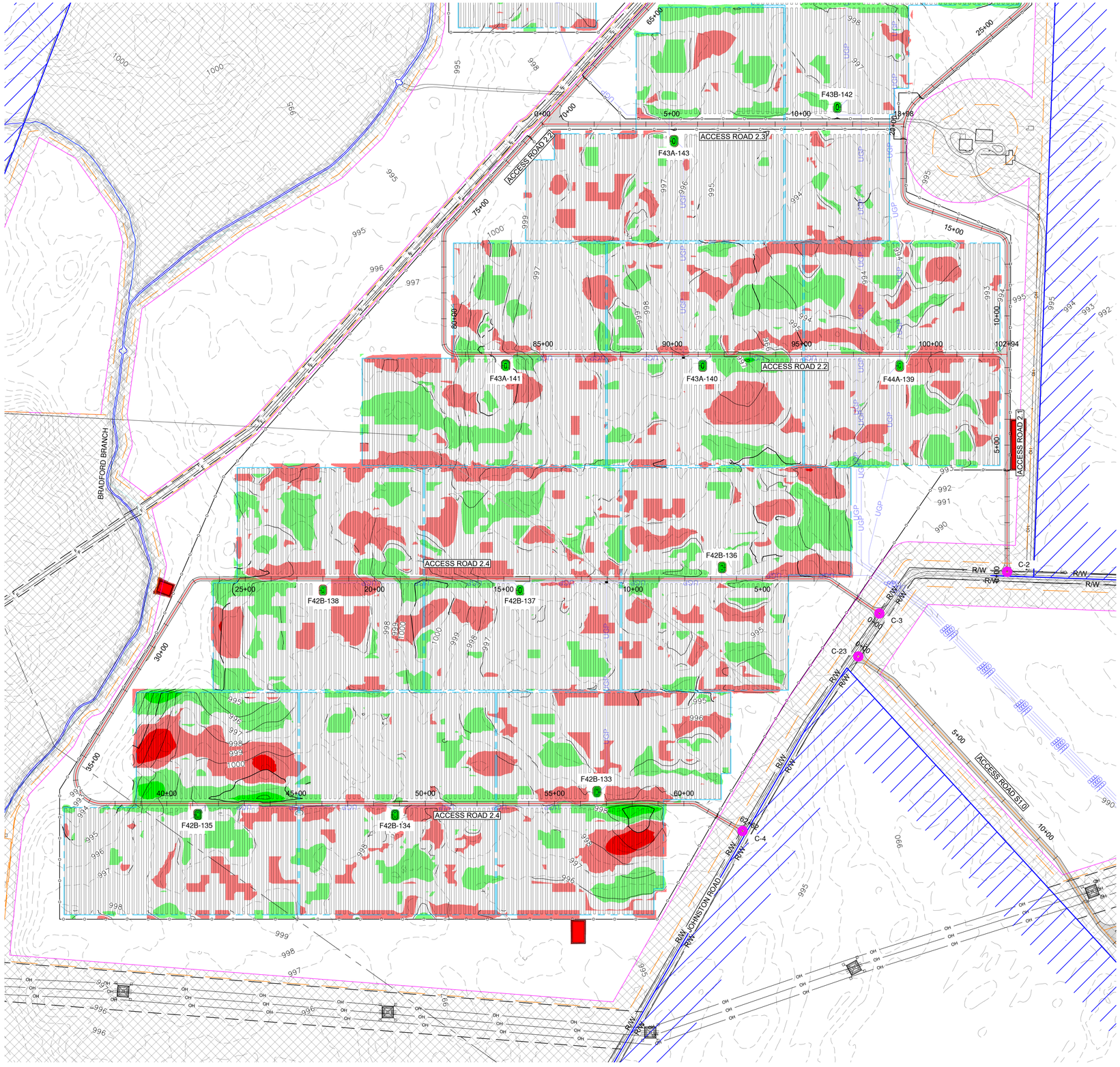
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Project Number: 21.00649
Design By: C. SMAALADEN
Drawn By: K. GUNDERSON
Approved By: L. JORDAHL

SITE GRADING PLAN 2

REVISION: C

DRAWING: FSSP-SG0-C-GRD3-P002

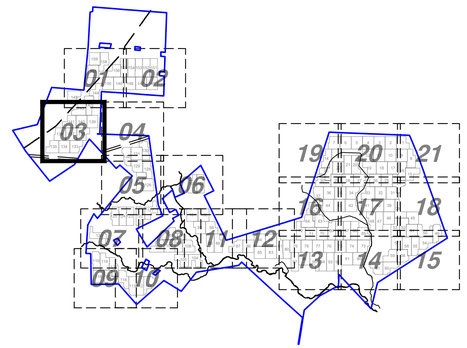


LEGEND

- PROJECT BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING VMS LINE
- EXISTING STREAM
- EXISTING TREE LINE
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PROPOSED CUT (5' - 2.5')	
PROPOSED CUT (2.5' - 1')	
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PROPOSED FILL (1' - 2.5')	
PROPOSED FILL (2.5' - 5')	
PROPOSED FILL (> 5')	



KEYMAP

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Project Number: 21.00649
Design By: C. SMAALADEN
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Approved By: L. JORDAHL

SITE GRADING PLAN 3

REVISION:
C

DRAWING:
FSSP-SG0-C-GRD3-P003

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in

Case No(s). 21-1031-EL-BGA, 20-0931-EL-BGN

Summary: Notice - Part 1 of 4 - Compliance with Condition 4 – Detailed Engineering Drawings electronically filed by Christine M.T. Pirik on behalf of Fox Squirrel Solar, LLC