

APPLICANT:

TUSCOLA II ENERGY STORAGE, LLC
700 UNIVERSE BLVD
JUNO BEACH, FL 33408
PHONE: 561.348.4684
ATTN: BRENDAN WOOD

CONSULTANT:

ATWELL, LLC
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MICHIGAN 48076
PHONE: 248.447.2000
FAX: 248.447.2001
PROJ. MGR/ENVIRONMENTAL: BEN SANFORD
ENGINEERING: CRAIG KANTOLA, PE
SURVEYING: CHRIS KELLY, PS

PROJECT SUMMARY:

COUNTY: TUSCOLA
TOWNSHIP: FAIRGROVE TOWNSHIP

THIS PERMIT APPLICATION COVERS THE FOLLOWING PROPOSED PROJECT FACILITIES:

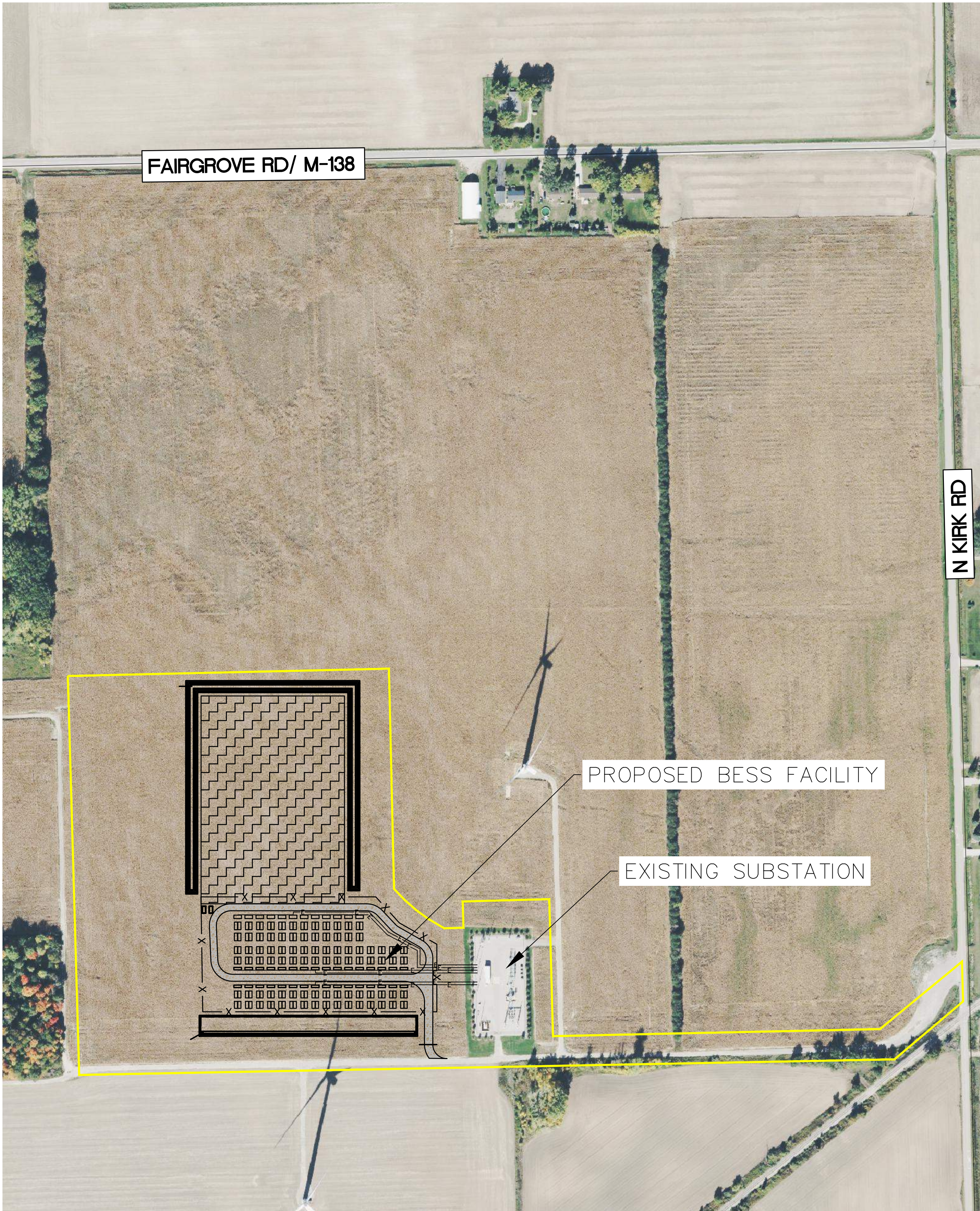
- COLLECTION LINES (PERMANENT)
- BESS FACILITY (PERMANENT)
- STORMWATER BASINS (PERMANENT & TEMPORARY)
- LAYDOWN YARD (TEMPORARY)

DATA SOURCES:

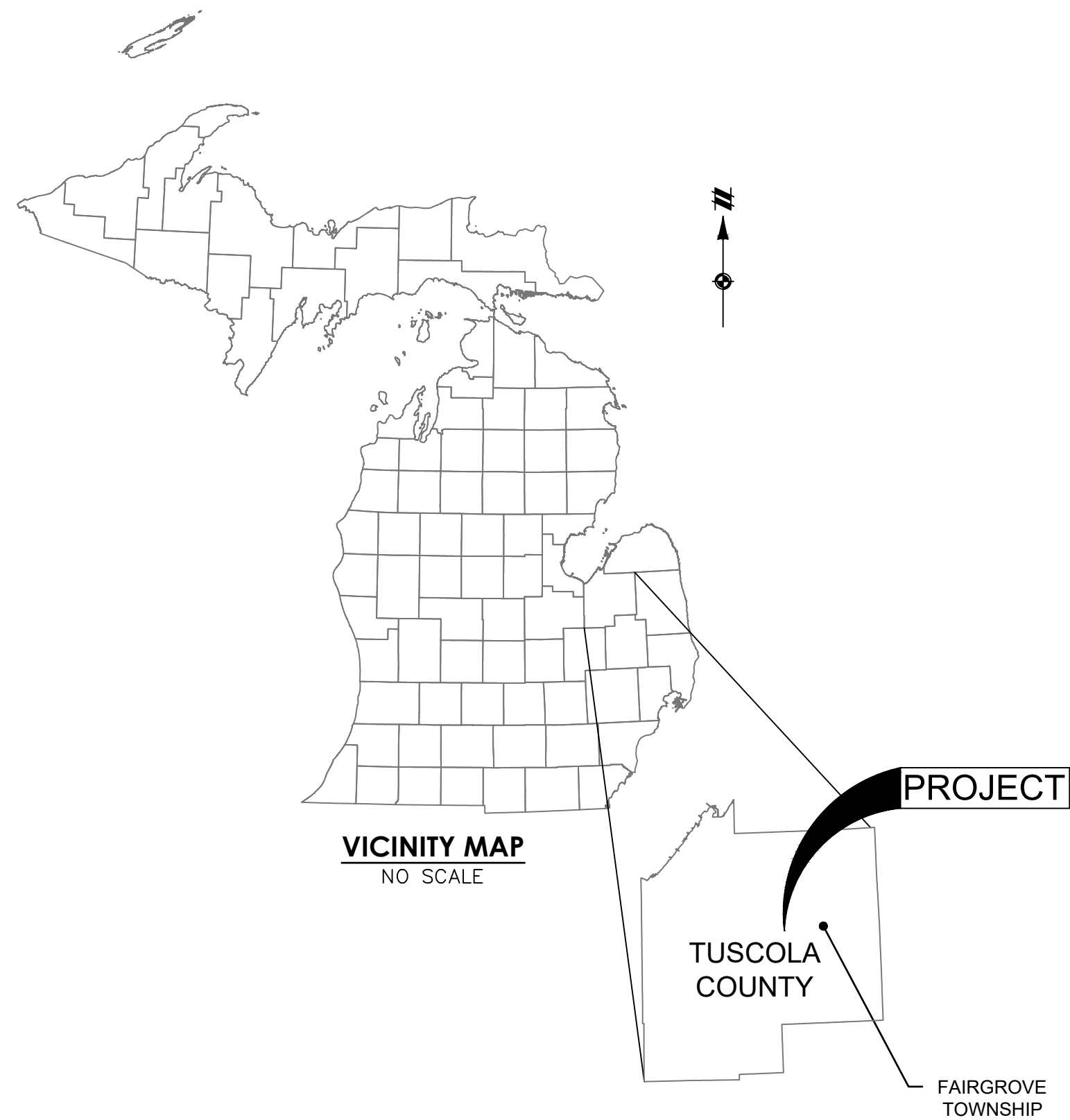
TOPOGRAPHICAL INFORMATION
AERIAL MAPPING PROVIDED BY NEXTERA (JANUARY 2024)
LIMITED FIELD TOPO BY ATWELL, LLC. (COMPLETED JUNE, 2024)
DRAIN MAPS PER COUNTY RECORDS
PROVIDED BY ATWELL (FIELD WORK COMPLETED JULY 2024)
FINAL WETLAND DELINEATION
PROVIDED BY ATWELL (MARCH 2024)
PROPERTY BOUNDARY INFORMATION
PROVIDED BY NEXTERA (JUNE 2024)
PARCEL PARTICIPATION
AERIAL PHOTO REVIEW (JUNE 2024)
HABITABLE STRUCTURE LOCATIONS
PROJECT LAYOUT
PROVIDED BY NEXTERA (JANUARY 2025)

TUSCOLA II ENERGY STORAGE PROJECT

TUSCOLA COUNTY, MICHIGAN
FAIRGROVE TOWNSHIP
SPECIAL LAND USE PERMIT - SITE PLAN



SITE MAP
SCALE 1"=200'



LEGEND

- PROP. PROJECT BOUNDARY
- PROP. FENCE
- PROP. UNDERGROUND COLLECTION
- PROP. ACCESS ROAD
- EX. ROAD CENTERLINE
- PROP. TEMPORARY LAYDOWN YARD AREA
- PROPOSED BESS UNITS



SHEET INDEX	
SHEET	NUMBER
01	COVER SHEET
02	ZONING MAP & LEGAL DESCRIPTIONS
03	EXISTING CONDITIONS
04	PROPOSED LAYOUT - OVERALL
05	PROPOSED LAYOUT
06	LANDSCAPING PLAN
07	STORMWATER PLAN
08	GENERAL DETAILS
09	GENERAL DETAILS

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

Know what's below.
Call before you dig.

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

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

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SECTION: 19

TOWN, RANGE: T13N, R08E

FAIRGROVE TOWNSHIP

TUSCOLA COUNTY, MICHIGAN

CLIENT: TUSCOLA II ENERGY STORAGE, LLC

TUSCOLA II ENERGY STORAGE PROJECT
SPECIAL LAND USE PERMIT -
SITE PLANS
COVER SHEET

DATE: 07/01/2025





REV 08/20/2025

REVISIONS

DR.	MB	CH.	BS
P.M.	BS		
BOOK	--		
JOB	24005306		
SHEET NO.	01		

CAD FILE: 24005306-00-CV12DWG



	Agricultural		Business
	Residential		Manufacturing

*ALL PARCELS WITHIN PROJECT AREA ARE ZONED AGRICULTURE (AG)

81

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SECTION: 19
TOWN, RANGE: T13N, R08E
FAIRGROVE TOWNSHIP
TUSCOLA COUNTY, MICHIGAN

TUSCOLA II ENERGY STORAGE, LLC
CLIENT

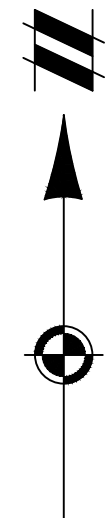
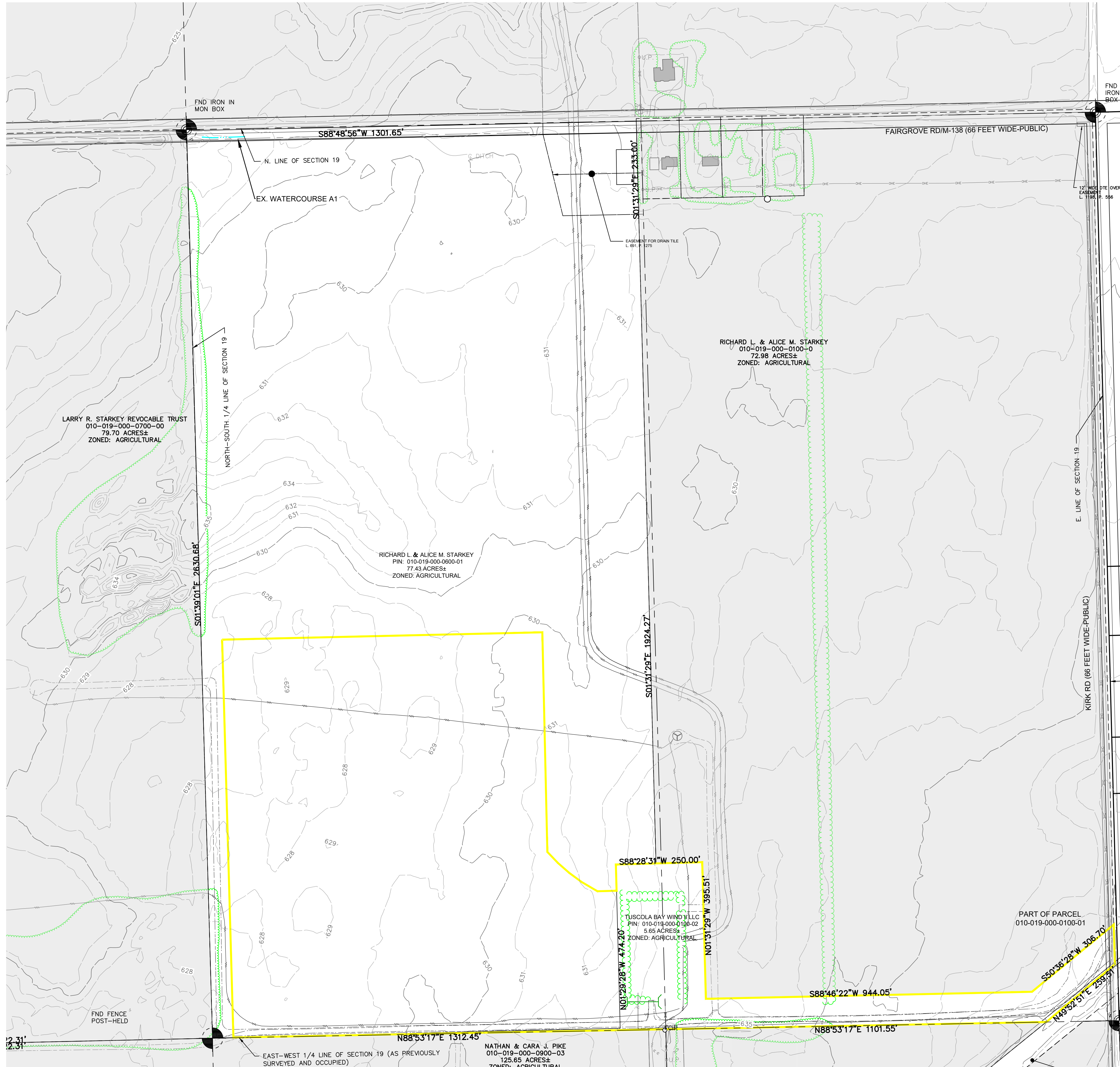
TUSCOLA II ENERGY STORAGE PROJECT
SPECIAL LAND USE PERMIT –
SITE PLANS

FAIRGROVE TOWNSHIP ZONING MAP
& LAND OWNER TABLE

DATE	07/01/2025
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REV 08/20/2025

DR.	MB	CH.	BS
P.M. BS			
BOOK		--	
JOB		24005306	
SHEET NO.			
02			



- NOTES:
1. THE PROJECT SITE DOES NOT CONTAIN ANY WATERWAYS.
 2. THE PROJECT SITE DOES NOT CONTAIN ANY EXISTING SLOPES THAT ARE GREATER THAN 10 PERCENT.

LEGEND

	PROJECT BOUNDARY
	EX. WATERCOURSE
	EX. CULVERT
	EX. VEGETATION LINE
	EX. STRUCTURE/RESIDENCE
	EX. UNDERGROUND COLLECTION LINE
	EX. UNDERGROUND TELEPHONE LINE
	EX. GRAVEL ROAD
	EX. ELECTRIC UNDERGROUND
	EX. ELECTRIC OVERHEAD
	EX. EASEMENT
	SECTION BOUNDARY
	EX. ROAD CENTERLINE
	EX. ROAD ROW
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	EX. TURBINE
	NON-PARTICIPATING PARCELS

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

Know what's below.
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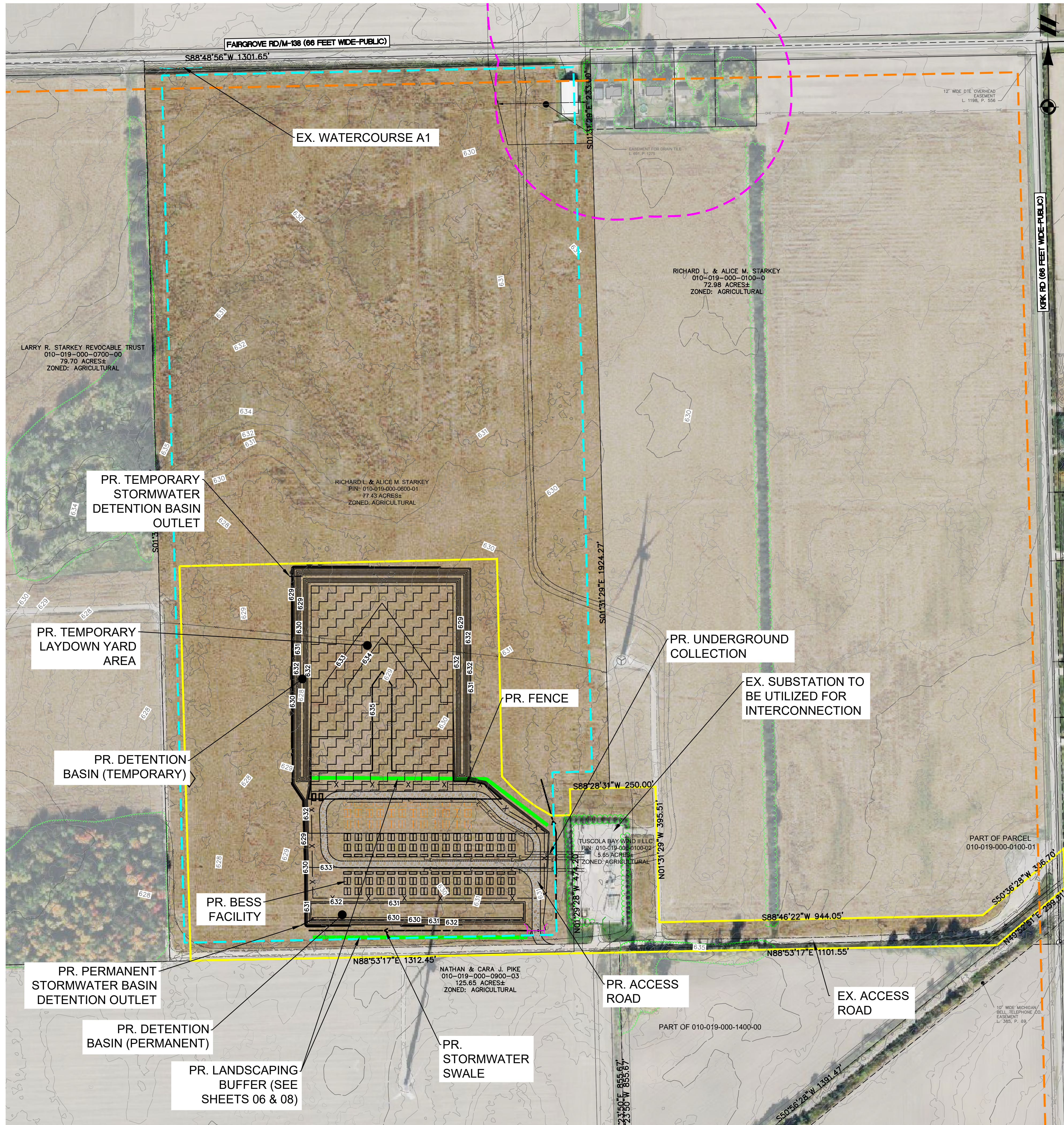
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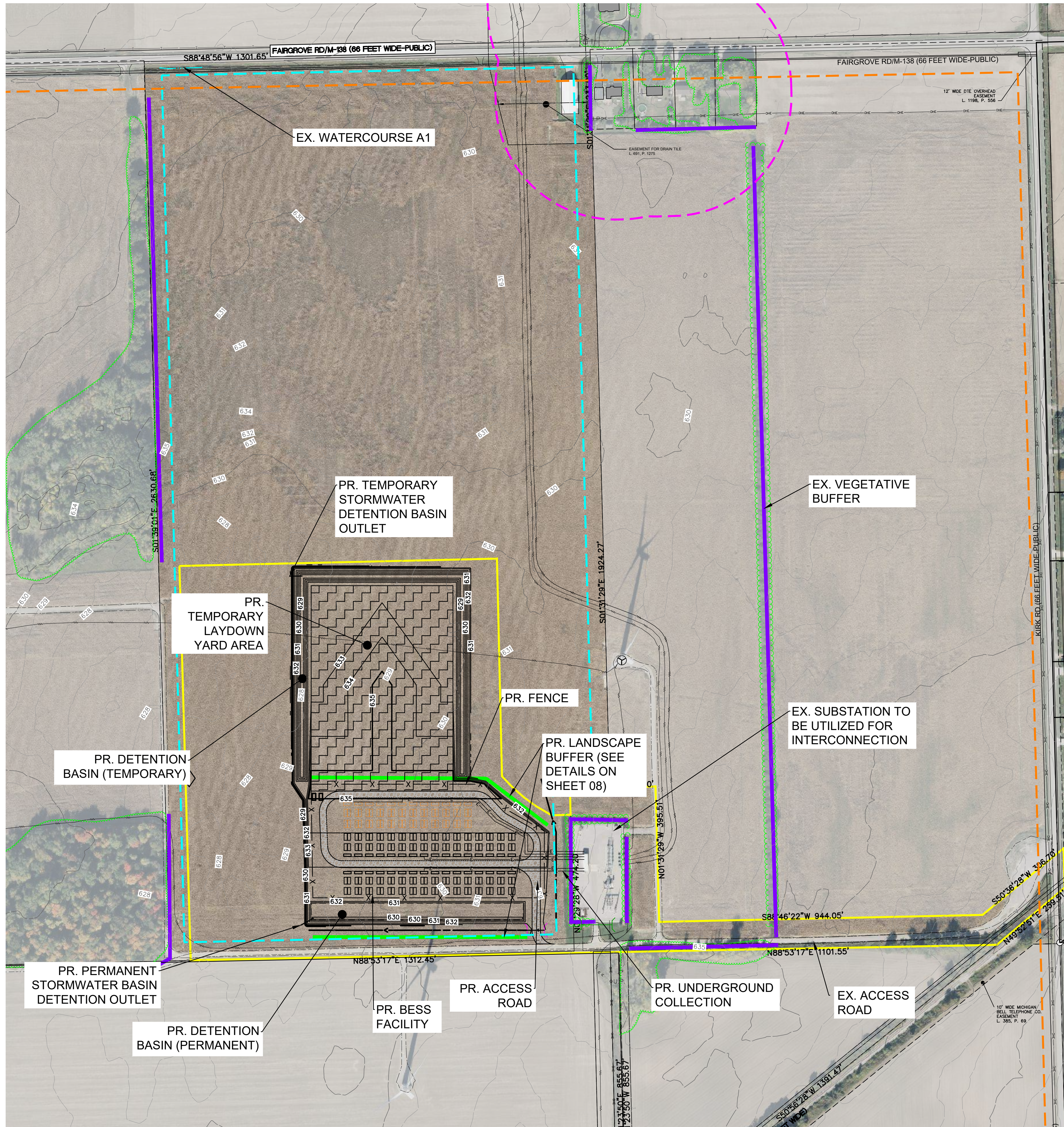
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TOWN, RANGE:	T13N, R08E
FAIRGROVE TOWNSHIP	
TUSCOLA COUNTY, MICHIGAN	
EXISTING CONDITIONS	
DATE	07/01/2025
REV	08/20/2025
REVISIONS	
SCALE	0 90 180
1" = 180 FEET	
DR. MB	CH. BS
P.M. BS	
BOOK	--
JOB	24005306
SHEET NO.	03



1. NO LIGHTING IS PROPOSED FOR THE PROJECT AS THE PROJECT WILL BE UTILIZING THE EXISTING SUBSTATION. THIS DESIGN PRESERVES THE EXISTING TOPOGRAPHY AND VEGETATION TO THE MAXIMUM POSSIBLE AND LIMITS THE DESTRUCTION OF NATURAL FEATURES.
2. THE PROJECT IS DESIGNED AND WILL BE CONSTRUCTED IN ACCORDANCE WITH THE NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 855 STANDARD AND THE MINIMUM REQUIREMENTS FOR MITIGATING THE HAZARDS ASSOCIATED WITH STATIONARY, VEHICLE AUXILIARY POWER AND LIGHT ELECTRIC RAIL APPLICATIONS).
3. THE PROJECT SYSTEM AND COMPONENTS WILL BE APPROVED AND LISTED BY AN UL (UNDERWRITERS LABORATORIES) 9540 NATIONALLY RECOGNIZED TESTING LABORATORY PRIOR TO OPERATION. THE PROJECT COMPLIES WITH THE ELECTRICAL SAFETY, THERMAL SAFETY, MECHANICAL SAFETY, FIRE SAFETY, SYSTEM PERFORMANCE, SYSTEM RELIABILITY, AND SYSTEM IMPLEMENTATION REQUIREMENTS LISTED BY UL 9540.
4. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1973 (STANDARD FOR BATTERIES FOR USE IN STATIONARY, VEHICLE AUXILIARY POWER AND LIGHT ELECTRIC RAIL APPLICATIONS).
5. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1642 (STANDARD FOR LITHIUM BATTERIES).
6. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1741 OR UL 62109 (INVERTERS AND POWER CONVERTERS).
7. ALL TEMPORARY DISTURBANCES ARE TO BE RESTORED TO EXISTING GRADE UPON COMPLETION OF CONSTRUCTION.
8. PEDESTRIAN WALKWAYS SHALL BE PROVIDED AS DEEMED NECESSARY BY THE PLANNING COMMISSION FOR SEPARATING PEDESTRIAN AND VEHICULAR TRAFFIC.
9. NATURAL RESOURCES INCLUDING LAKEES, PONDS, STREAMS, WOODLANDS, AND WILDLIFE HABITAT WILL NOT BE ADVERSELY IMPACTED BY THE PROPOSED USES, STRUCTURES, OR BUILDINGS.
10. THIS DESIGN MEETS THE MINIMUM DIMENSIONAL REQUIREMENTS FOR THE DISTRICT (AGRICULTURAL A-1) FOR WHICH THE USES AND STRUCTURES ARE LOCATED AND HAVE BEEN APPROPRIATELY SCALED ON THIS PLAN.
11. THE PROJECT WILL BE CERTIFIED UNDER THE APPLICABLE ELECTRICAL, BUILDING, AND FIRE PREVENTION CODES AS REQUIRED.
12. APPLICABLE PERMITS OR AUTHORIZATION FROM OTHER REGULATORY AGENCIES ARE IN THE PROCESS OF BEING OBTAINED.

S:\LANDSCAPE - MICHIGAN TUSCOLA II BESS ENERGY STORAGE PROJECT\SETUP\LANDSCAPE-04-LP.DWG 07/21/2025 9:53 AM BILLYMANN-SAMPOUR

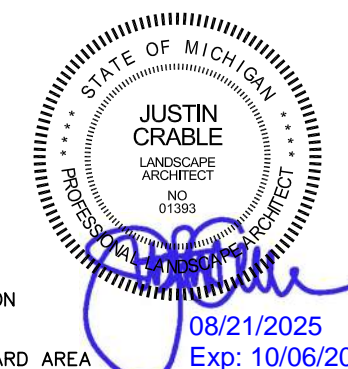


BESS PERIMETER FENCING SETBACK TABLE		
50' PUBLIC ROW SETBACK		-----
300' NON-PARTICIPATING DWELLING OR COMMUNITY BUILDINGS SETBACK		-----
50' NON-PARTICIPATING PARCEL SETBACK		-----

SETBACK NOTES:
1. THE PROJECT MEETS OR EXCEEDS ALL TOWNSHIP REQUIRED SETBACKS PER SECTION 7.28, SUBSECTION 7 SETBACKS APPROVED ON DECEMBER 2, 2024.

- NOTES:
1. LANDSCAPE BUFFER TO BE PLACED ON THE OUTSIDE OF THE PERIMETER FENCING OF THE BESS FACILITY WHERE THERE IS POTENTIAL VIEWSHED FROM A PUBLIC USE OR NON-PARTICIPATING RESIDENTIAL STRUCTURE.
 2. A DETAILED MAINTENANCE PLAN IS PROVIDED ON SHEET 08.
 3. PLANTS OR GRASSES NOT PART OF THE REQUIRED LANDSCAPING BUFFER WILL NOT EXCEED 12 INCHES IN HEIGHT UNLESS APPROVED BY THE PLANNING COMMISSION.
 4. THE PROJECT DOES NOT ANTICIPATE ANY VEGETATION CLEARING.
 5. LANDSCAPE BUFFER IS NOT PROPOSED FOR THE TEMPORARY LAYDOWN YARD AREA.
 6. LANDSCAPE BUFFER SHALL CONTAIN A MIX OF NATIVE DECIDUOUS AND EVERGREEN PLANT MATERIAL AT LEAST FIVE (5) FEET IN HEIGHT AT INSTALLATION.

LEGEND	
	PROJECT BOUNDARY
	EX. WATERCOURSE
	EX. CULVERT
	EX. VEGETATION LINE
	EX. STRUCTURE/RESIDENCE
	EX. UNDERGROUND COLLECTION LINE
	EX. UNDERGROUND TELEPHONE LINE
	EX. GRAVEL ROAD
	EX. ELECTRIC UNDERGROUND
	EX. ELEC-OH
	EX. EASEMENT
	SECTION BOUNDARY
	EX. ROAD CENTERLINE
	EX. ROAD ROW
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	EX. TURBINE
	PR. CULVERT
	PR. ACCESS ROAD GRAVEL
	PR. FENCE
	PR. LANDSCAPING BUFFER
	EX. VEGETATIVE BUFFER
	PR. CONTOUR
	NON-PARTICIPATING PARCELS
	AUGMENTATION BESS UNITS
	INITIAL BESS UNITS
	PR. UNDERGROUND COLLECTION
	PR. TEMPORARY LAYDOWN YARD AREA
	PR. SWALE



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SECTION: 19

TOWN RANGE: T13N, R08E

FAIRGROVE TOWNSHIP

TUSCOLA COUNTY, MICHIGAN

CLIENT: TUSCOLA II ENERGY STORAGE, LLC

TUSCOLA II ENERGY STORAGE PROJECT SPECIAL LAND USE PERMIT - SITE PLANS

LANDSCAPING PLAN

DATE: 07/01/2025

REV 08/20/2025

REVISIONS

SCALE	0	50	100
1" = 100 FEET			
DR.	MB	CH.	BS
BOOK			
JOB	24005306		
SHEET NO.	06		



1. FENCE INSTALLATION AND MATERIALS SHALL BE PER CURRENT MDT SPECIFICATIONS AND STANDARD PLAN R-98-B "CHAIN LINK FENCE (USING TENSION WIRE)", EXCEPT AS MODIFIED / CLARIFIED BY THE NOTES BELOW.
2. CORNER, END AND PULL POSTS SHALL HAVE CONCRETE FOOTINGS (COMPRESSIVE STRENGTH 2,500 PSI MINIMUM) 12" DIAMETER AND 36" MIN. DEPTH.
3. TYPICAL LINE POSTS MAY BE DIRECT-DRIVEN PER FENCE CONTRACTOR RECOMMENDATION (MINIMUM EMBEDMENT DEPTH T.B.D.), OR HAVE CONCRETE FOOTINGS (9" DIA., 36" MIN. DEPTH).
4. SLOPE TOP OF CONCRETE FENCE FOOTINGS TO SHED WATER AWAY FROM POST.
5. LINE POSTS SHALL BE CIRCULAR PIPE SECTION, 2" NOMINAL (2.375" ACTUAL) O.D.



NOTE: ALL DETAILS REPRESENTED ON THIS PLAN SHEET ARE CONCEPTUAL IN NATURE, PROVIDED ONLY TO INDICATE A GENERAL OVERVIEW OF PROPOSED PROJECT FACILITIES, AND ARE EXPECTED TO BE MODIFIED AND REFINED DURING THE ENGINEERING PHASE OF THE PROJECT. FINAL PROJECT FACILITY DETAILS WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE AGENCIES HAVING JURISDICTION.



PRELIMINARY PLANS - NOT FOR CONSTRUCTION

