APPLICANT:

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

TUSCOLA II ENERGY STORAGE PROJECT

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

CONSULTANT:

ENGINEERING: SURVEYING:

ATWELL, LLC TWO TOWNE SQUARE, SUITE 700 SOUTHFIELD, MICHIGAN 48076 PHONE: 248.447.2000 FAX: 248.447.2001 PROJ. MGR/ENVIRONMENTAL:

BEN SANFORD CRAIG KANTOLA, PE CHRIS KELLY, PS

PROJECT SUMMARY:

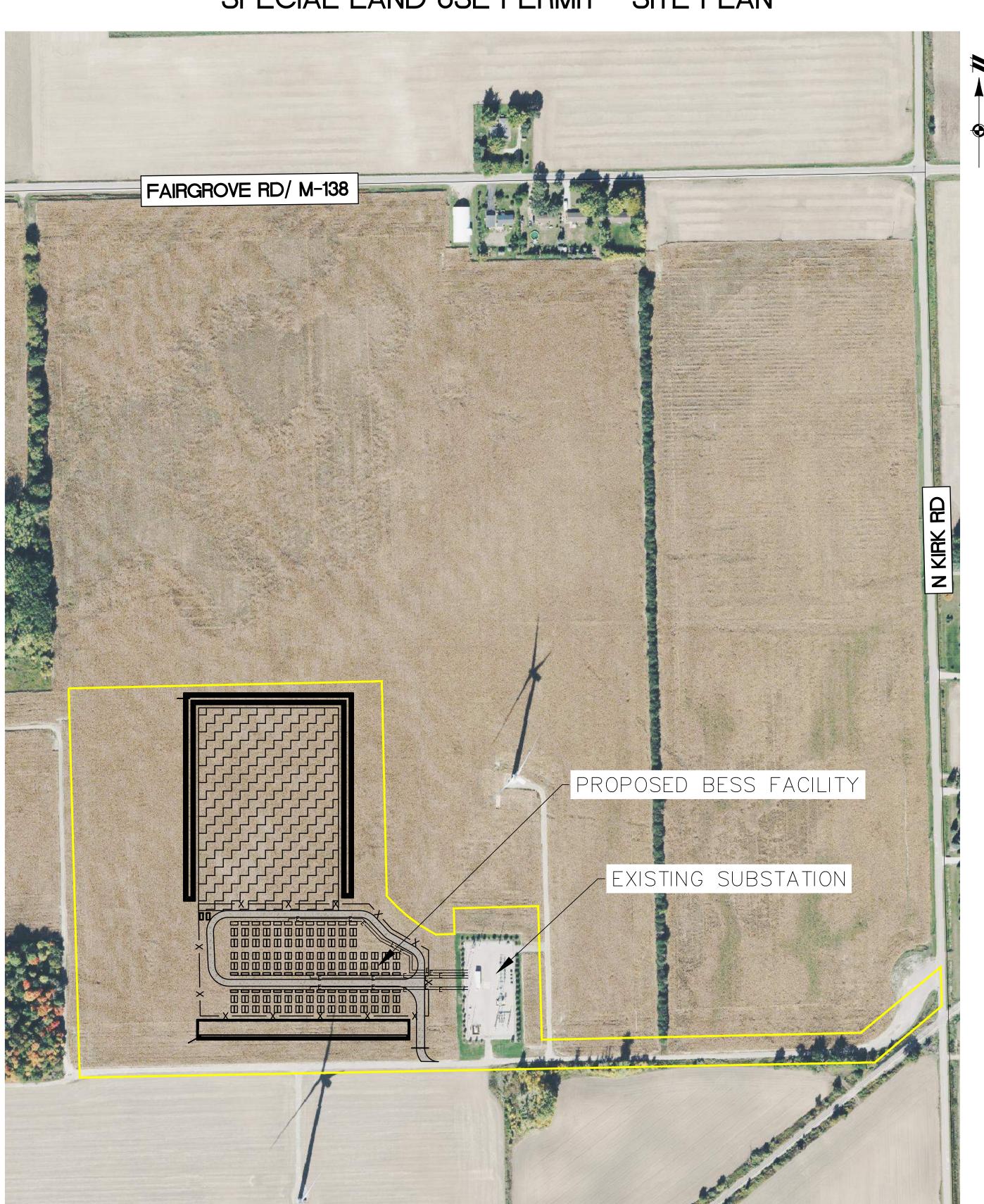
COUNTY: TUSCOLA FAIRGROVE TOWNSHIP

THIS PERMIT APPLICATION COVERS THE FOLLOWING PROPOSED PROJECT FACILITIES:

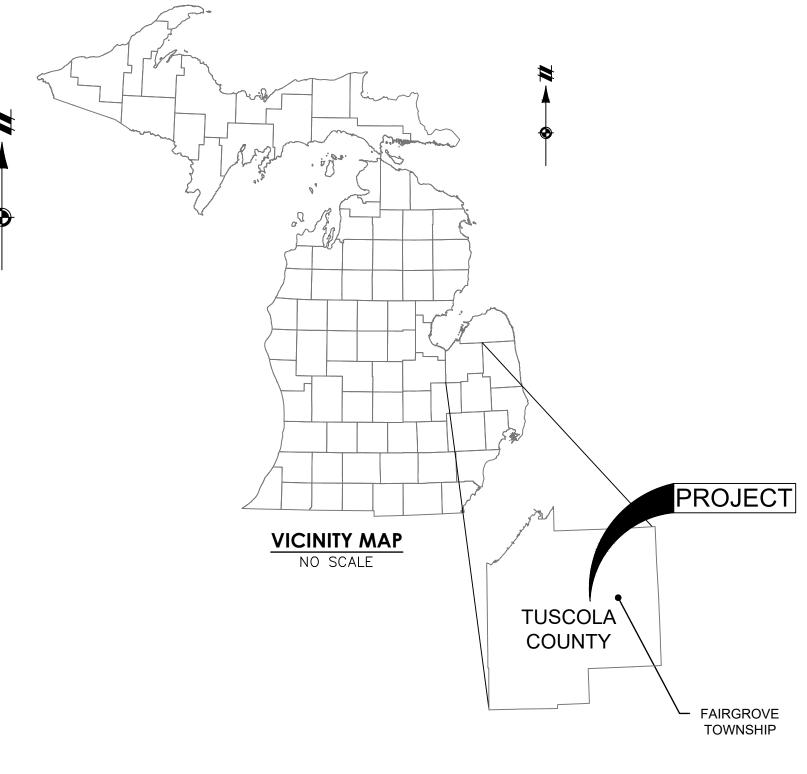
• COLLECTION LINES (PERMANENT) •BESS FACILITY (PERMANENT)

•STORMWATER BASINS (PERMANENT & TEMPORARY)

•LAYDOWN YARD (TEMPORARY)



SITE MAP



LEGEND						
	PROP. PROJECT BOUNDARY					
	PROP. FENCE					
—E——E———E———	PROP. UNDERGROUND COLLECTION					

EX. ROAD CENTERLINE PROP. TEMPORARY LAYDOWN YARD AREA

PROPOSED BESS UNITS

PROP. ACCESS ROAD



SHEET INDEX				
SHEET NUMBER	SHEET TITLE			
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			

DATA SOURCES:

TOPOGRAPHICAL INFORMATION

FINAL WETLAND DELINEATION

PARCEL PARTICIPATION

PROJECT LAYOUT

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) PROPERTY BOUNDARY INFORMATION PROVIDED BY ATWELL (MARCH 2024)

PROVIDED BY NEXTERA (JUNE 2024)

HABITABLE STRUCTURE LOCATIONS AERIAL PHOTO REVIEW (JUNE 2024)

PROVIDED BY NEXTERA (JANUARY 2025)

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

REVISIONS MB CH. BS

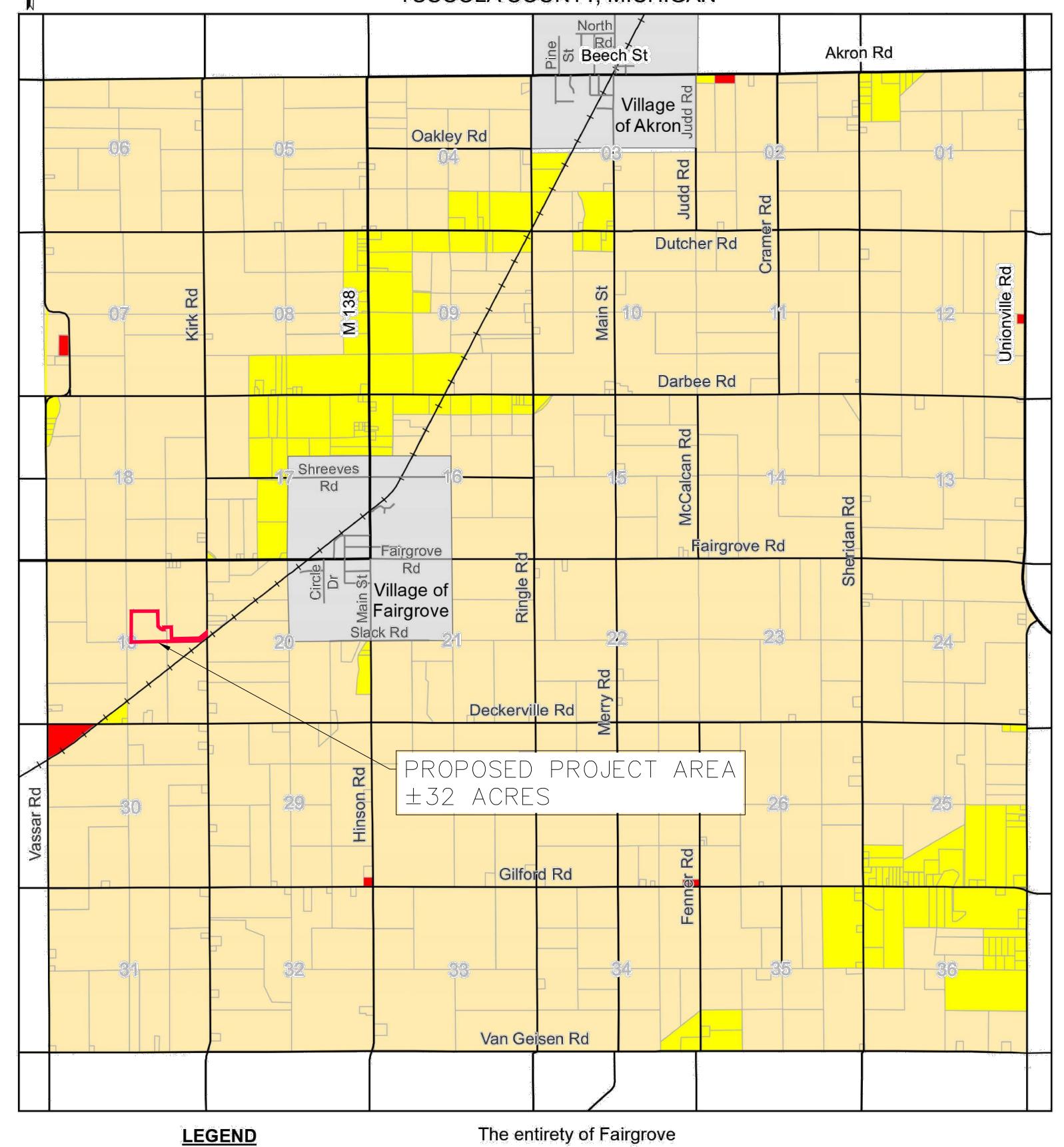
JOB 24005306

07/01/2025

REV 08/20/2025

ZONING FAIRGROVE TOWNSHIP

TUSCOLA COUNTY, MICHIGAN



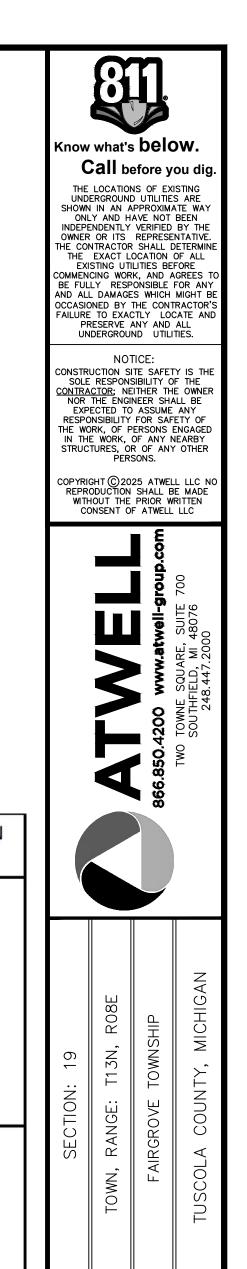
Township is subject to the Wind Energy Overlay

District, described further

in Section 410 of the

Zoning Ordinance.

OWNER	PIN	LEGAL DESCRIPTION	TOTAL PARCEL ACREAGE	TOTAL ACREAGE WITHIN PROJECT BOUNDARY
Richard L. & Alice M. Starkey	010-019-000-0600-01	FRG-19-102 SEC 19 T13N R8E W 1/2 OF NE 1/4 EX COM AT A PT THAT IS S 01 DEG 29' 56 E 2365.57 FT & S 01 DEG 29' 56 E 100.92 FT & S 50 DEG 56' 28 W 266.03 FT & S 88 DEG 53' 17 W 1105.38 FT FROM NE COR OF SEC, TH S 88 DEG 53' 17 W 116.17 FT, TH N 01 DEG 06' 40 W 474.20 FT, TH N 88 DEG 53' 12 E 116.17 FT, TH S 01 DEG 06' 40 E 474.20 FT TO POB. 78.07 A. PA 116. SPLIT ON 01/01/2014 INTO 010-019-000-0600-01; 010-019-000-0100-02;	77.43	26.40
Tuscola Bay Wind II LLC	010-019-000-0100-02	FRG-19-101 SEC 19 T13N R8E COM AT A PT THAT IS S 01 DEG 29' 56 E 2365.57 FT FROM NE COR OF SEC, TH S 01 DEG 29' 56 E 100.92 FT, TH S 50 DEG 56' 28 W 266.03 FT, TH S 88 DEG 53' 17 W 1221.55 FT, TH N 01 DEG 06' 40 W 474.20 FT, TH N 88 DEG 53' 12 E 250 FT, TH S 01 DEG 06' 40 E 394.21 FT, TH N 88 DEG 53' 17 E 944.05 FT, TH N 50 DEG 56' 28 E 300.05 FT TO POB. 5 A. SPLIT ON 01/01/2014 FROM 010-019-000-0100-00; 010-019-000-0600-00;	5.65	5.65



REVISIONS

DATE 07/01/2025

REV 08/20/2025

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

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

Business

Manufacturing

Agricultural

Residential

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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07/01/2025

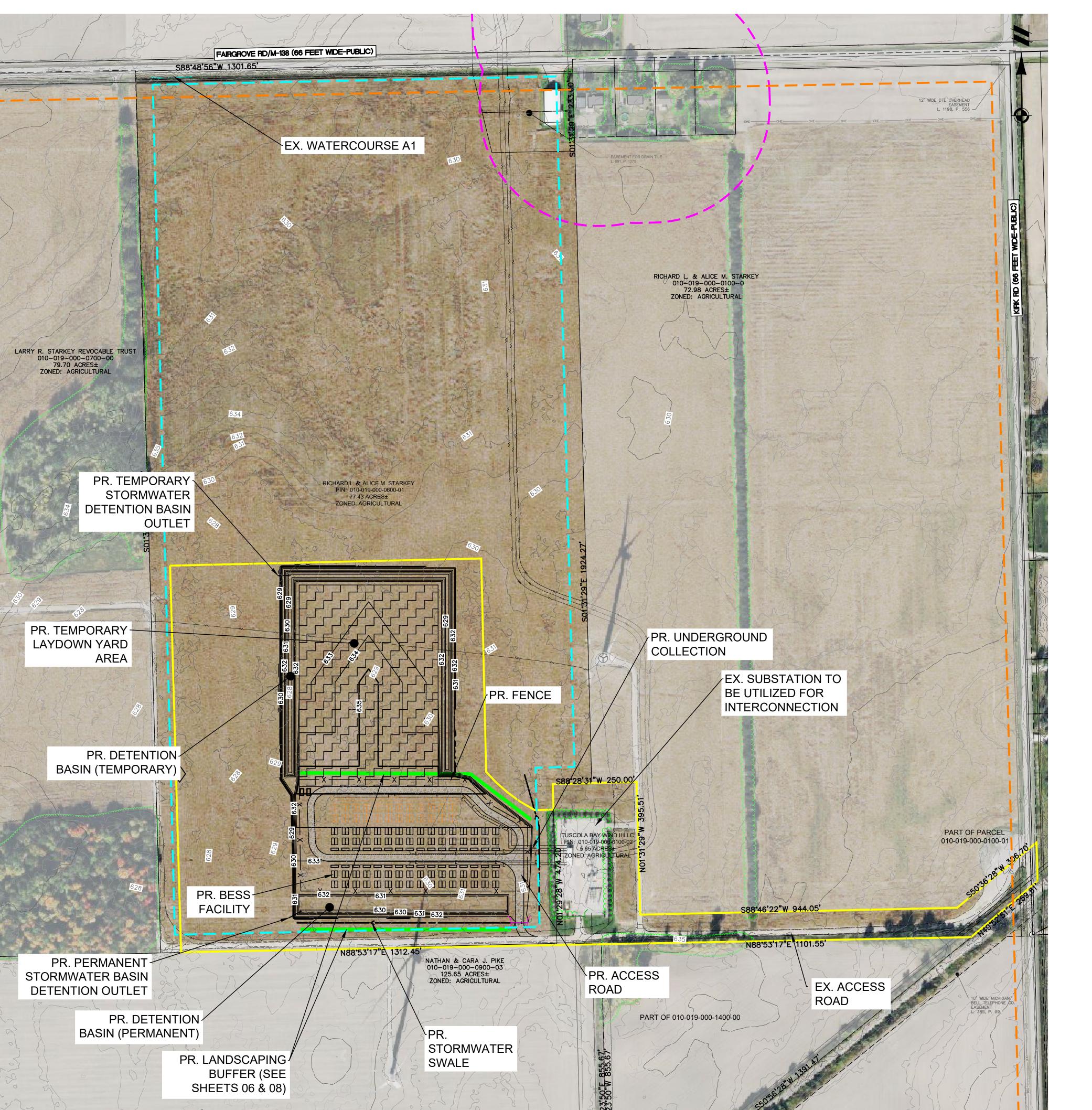
REV 08/20/2025

REVISIONS

1" = 180 FEET DR. MB CH. BS

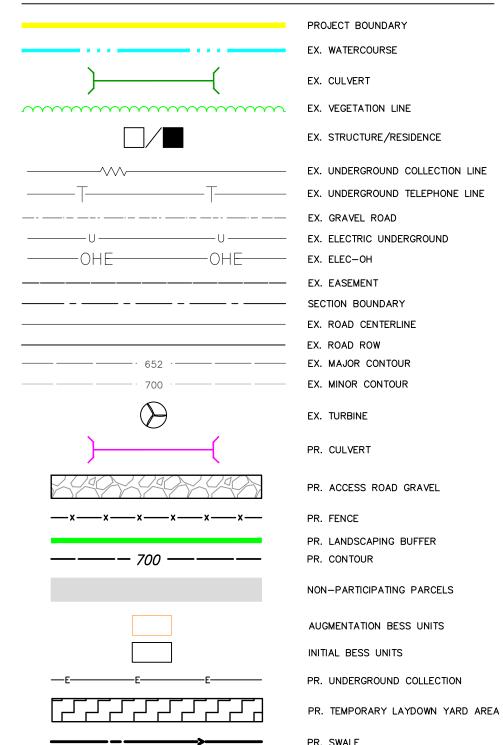
P.M. BS BOOK --JOB 24005306 SHEET NO.

PRELIMINARY PLANS - NOT FOR CONSTRUCTION



- 1. NO LIGHTING IS PROPOSED FOR THE PROJECT AS THE PROJECT WILL BE UTILIZING THE EXISTING SUBSTATION. 2. THIS DESIGN PRESERVES THE EXISTING TOPOGRAPHY AND VEGETATION TO THE GREATEST EXTENT POSSIBLE AND LIMITS
- THE DESTRUCTION OF NATURAL FEATURES. 3. 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 ENERGY STORAGE SYSTEMS. 4. 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 DOCUMENTATION REQUIREMENTS TO BE LISTED BY UL 9540.
- 5. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1973 (STANDARD FOR BATTERIES FOR USE IN STATIONARY, VEHICLE AUXILLARY POWER AND LIGHT ELECTRIC RAIL APPLICATIONS).
- 6. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1642 (STANDARD FOR LITHIUM BATTERIES).
- 7. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1741 OR UL 62109 (INVERTERS AND POWER
- 8. ALL TEMPORARY DISTURBANCES TO BE RESTORED TO EXISTING GRADE UPON COMPLETION OF CONSTRUCTION.
- 9. PEDESTRIAN WALKWAYS SHALL BE PROVIDED AS DEEMED NECESSARY BY THE PLANNING COMMISSION FOR SEPARATING PEDESTRIAN AND VEHICULAR TRAFFIC.
- 10. NATURAL RESOURCES INCLUDING LAKES, PONDS, STREAMS, WOODLANDS, AND WILDLIFE HABITAT WILL NOT BE ADVERSELY
- IMPACTED BY THE PROPOSED USES, STRUCTURES, OR BUILDINGS. 11. 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.
- 12. THE PROJECT WILL BE CERTIFIED UNDER THE APPLICABLE ELECTRICAL, BUILDING, AND FIRE PREVENTION CODES AS REQUIRED.
- 13. APPLICABLE PERMITS OR AUTHORIZATION FROM OTHER REGULATORY AGENCIES ARE IN THE PROCESS OF BEING OBTAINED.

LEGEND



SYSTEM SPECIFICATIONS

SYSTEM ACRATING AT POI (MW)	100.00
STORAGE DURATION (HOURS)	4
SYSTEM STORED CAPACITY (MWh)	400.00
INVERTERATING (MVA)	3.125
QUANTITY OF INVERTERS	32
TRANSFORMER RATING (MVA)	3.125
QUANTITY OF TRANSFORMERS	32
BATTERY ENGLOSURES	128
BATTERY ENGLOSURE CAPACITY (MWh)	3.125
BATTERY AUGMENTATION BLOCKS	48
AUGMENTATION INVERTER QUANTITY	12
INTERCONNECTION VOLTAGE (KV)	138
GEN-TIEUNELENGTH (MILES)	0.04
PROJECT AREA (ACRES)	32.05
FENCED AREA (ACRES)	4.84
FENONGLENGTH (L.F.)	1933
ROADS(LF.)	1758

BESS PERIMETER FENCING SI	ETBACK 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.



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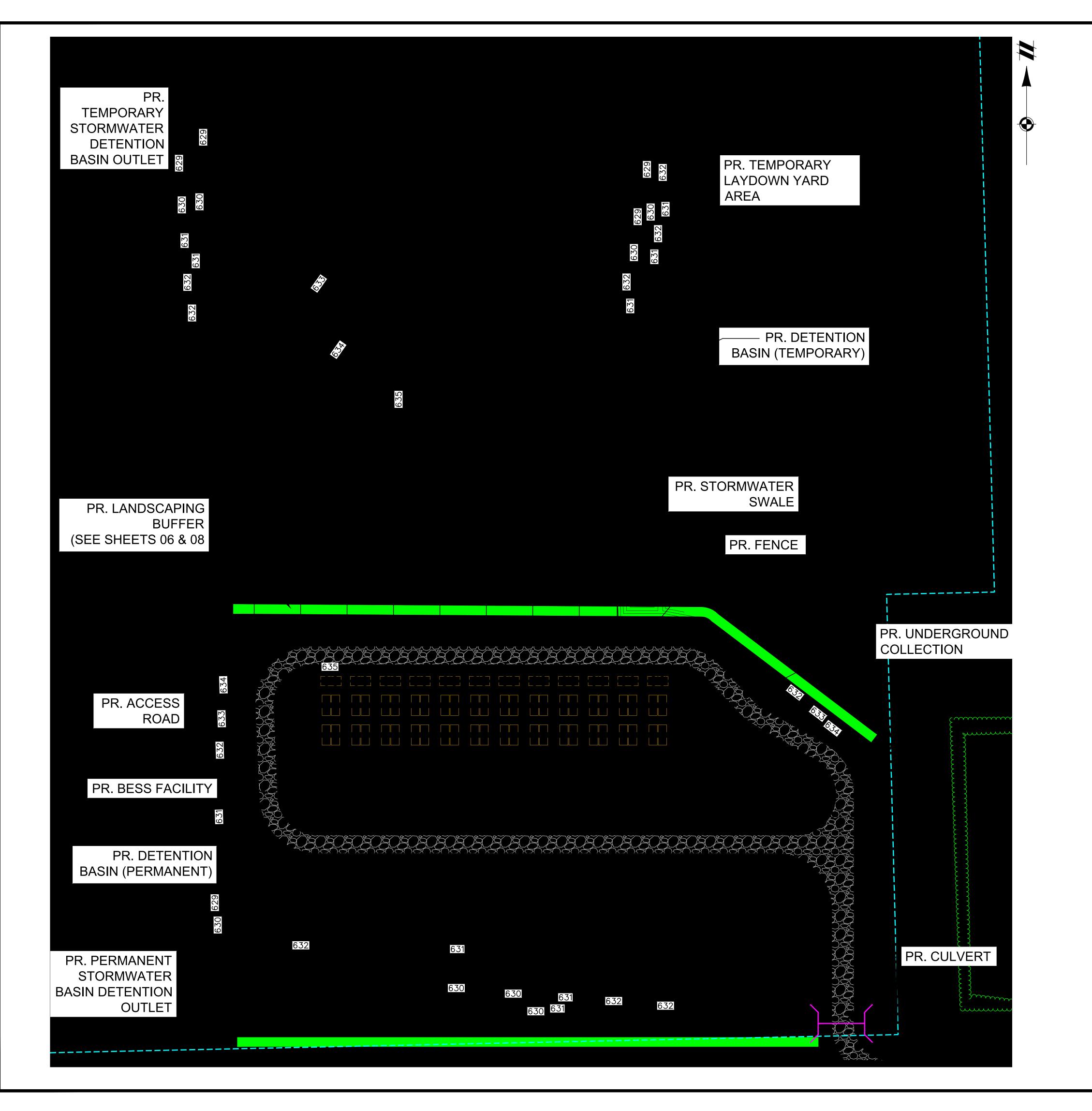
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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REVISIONS 1" = 100 FEETMB CH. BS

JOB 24005306 SHEET NO.



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

SETBACK NOTES:

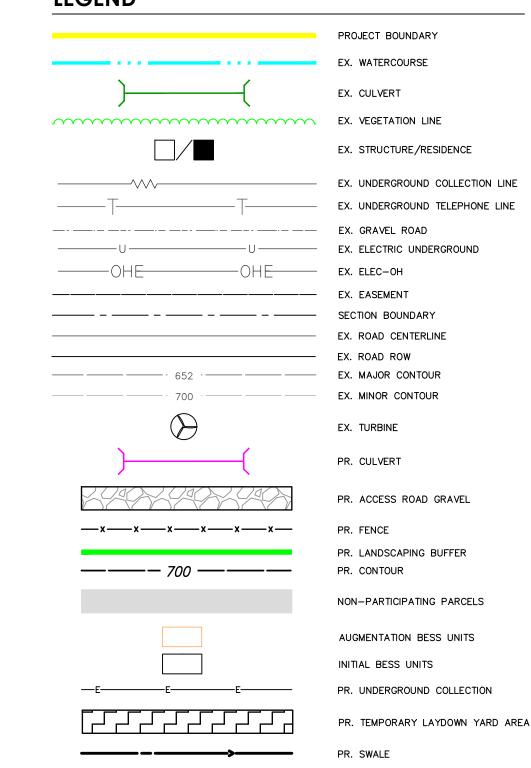
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- 4. THE PROJECT SYSTEM AND COMPONENTS WILL BE APPROVED AND LISTED BY AN UL (UNDERWRITERS LABORATORIES) 9540 NATIONALLY RECOGNIZED TESTING LABORATORY PRIOR TO OPERATION. THE PROJECT COMPLIES WITH THE ELECTRICAL SAFETY, THERMAL SAFETY, MECHANICAL SAFETY, FIRE SAFETY, SYSTEM PERFORMANCE, SYSTEM RELIABILITY, AND SYSTEM DOCUMENTATION REQUIREMENTS TO BE LISTED BY UL 9540.
- 5. SUBCOMPONENTS WILL MEET THE APPLICABLE STANDARDS UNDER UL 1973 (STANDARD FOR BATTERIES FOR USE IN STATIONARY, VEHICLE AUXILLARY POWER AND LIGHT ELECTRIC RAIL APPLICATIONS).
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LEGEND





PRELIMINARY PLANS - NOT FOR CONSTRUCTION

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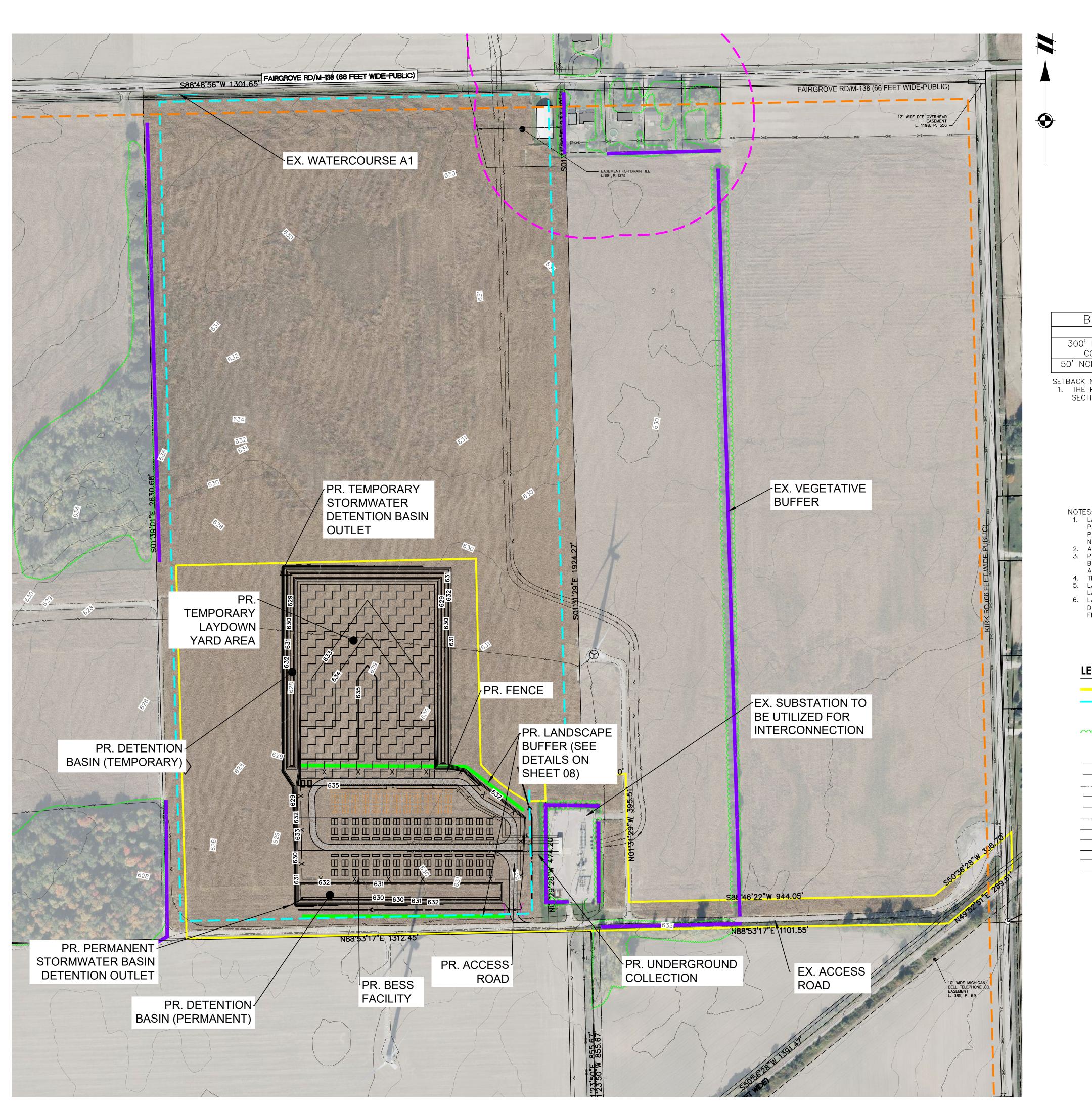
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07/01/2025

REVISIONS

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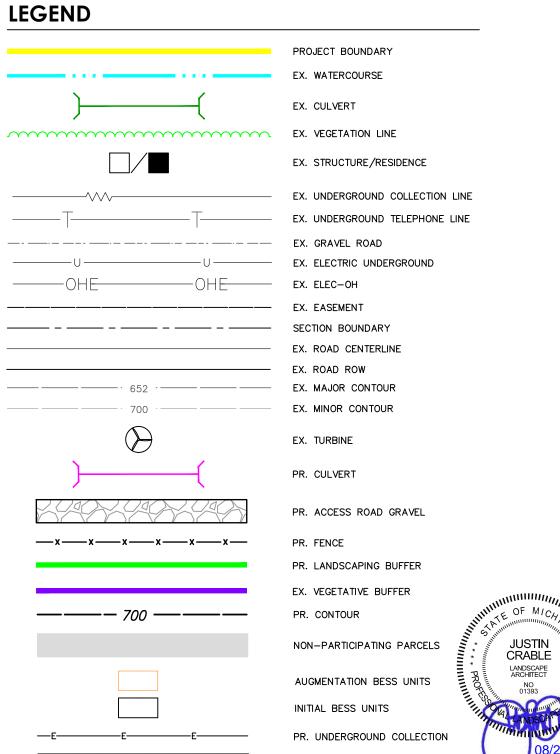
BESS PERIMETER FENCING SETBACK TABLE 50' PUBLIC ROW SETBACK 300' NON-PARTICIPATING DWELLING OR COMMUNITY BUILDINGS SETBACK 50' NON-PARTICIPATING PARCEL SETBACK

SETBACK NOTES:

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

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.



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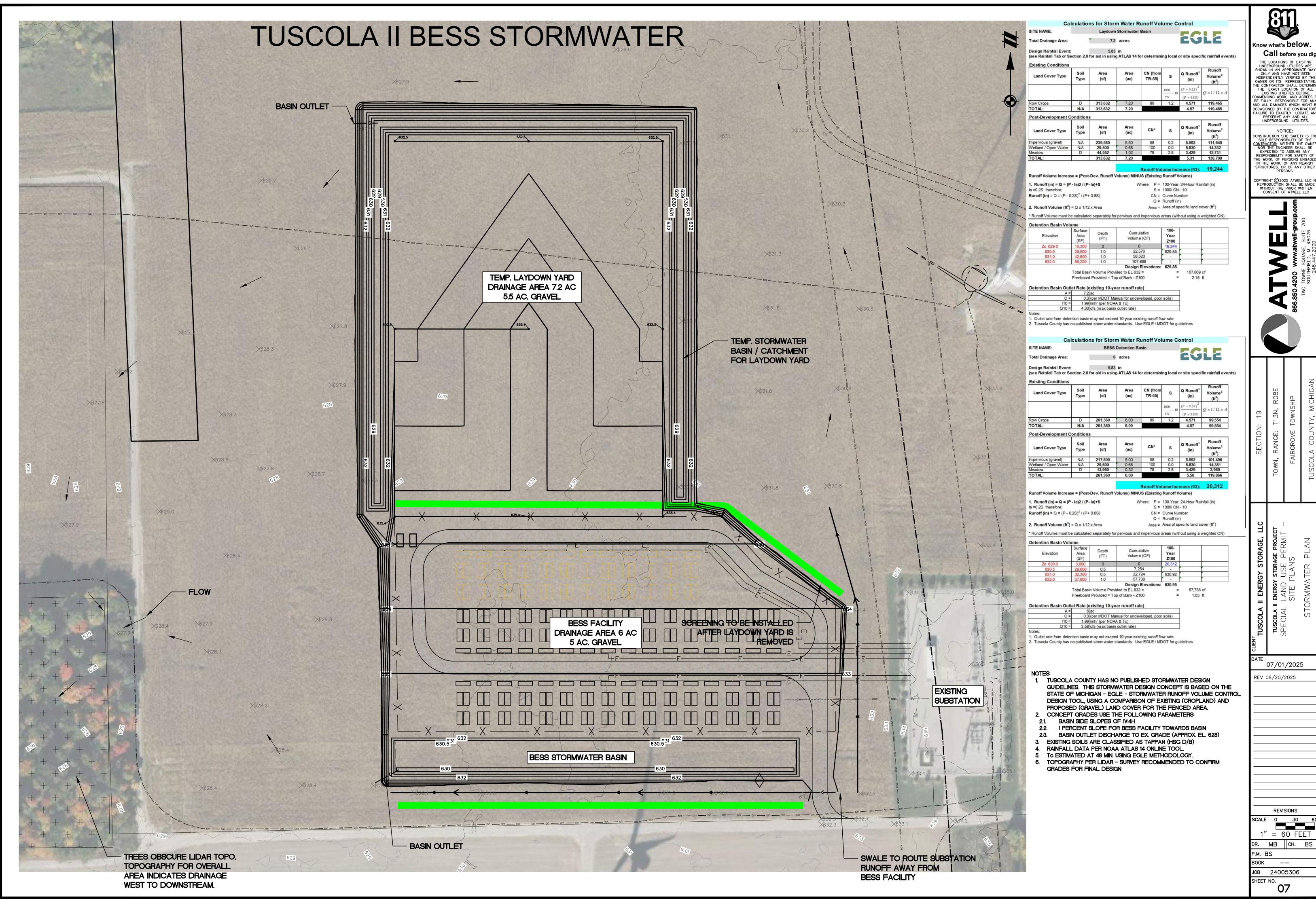
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SHEET NO.



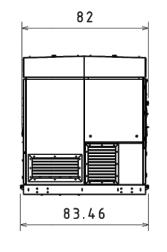
SECURITY FENCE DETAIL

NO SCALE

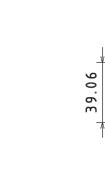
FENCE NOTES:

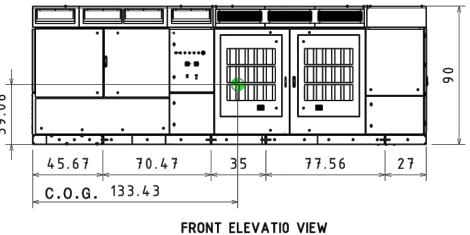
- 1. FENCE INSTALLATION AND MATERIALS SHALL BE PER CURRENT MDOT SPECIFICATIONS AND STANDARD PLAN R-98-B "CHAIN LINK FENCE (USING TENSION WIRE)", EXCEPT AS MODIFIED / CLARIFIED BY THE
- NOTES BELOW.
 2. CORNER, END AND PULL POSTS SHALL HAVE CONCRETE FOOTINGS (COMPRESSIVE STRENGTH 2,500 PSI MIN.), 18" 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.

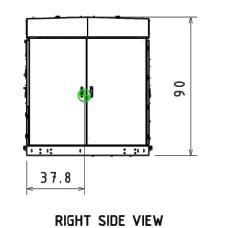
DC CONECTIONS AUX CONECTIONS 78 9 18.5 78 AC OUTPUT 41.9 78.3 31 77.6 27 BOTTOM VIEW



LEFT SIDE VIEW





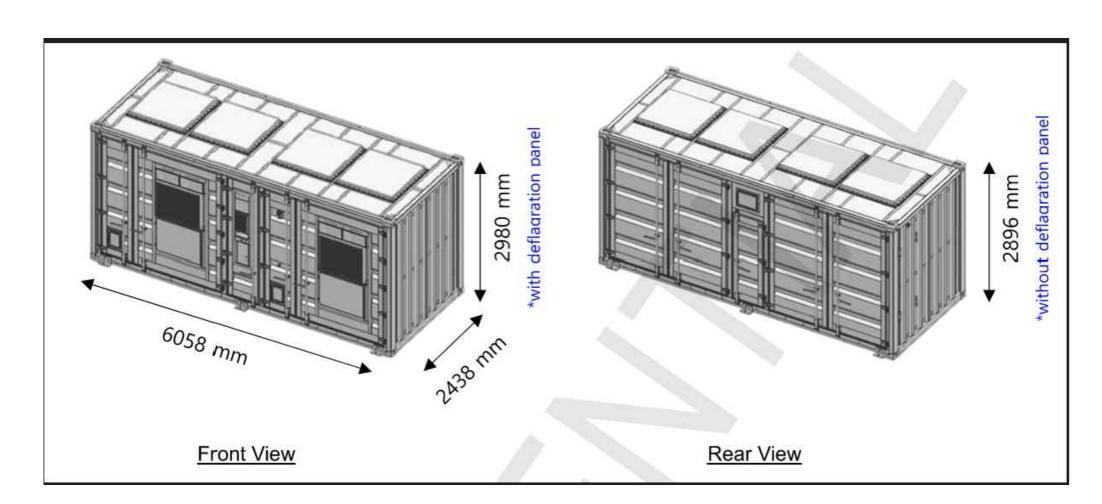


(MV SWGR ACCESS)

CONCEPTUAL INVERTER STATION DETAIL

NO SCALE

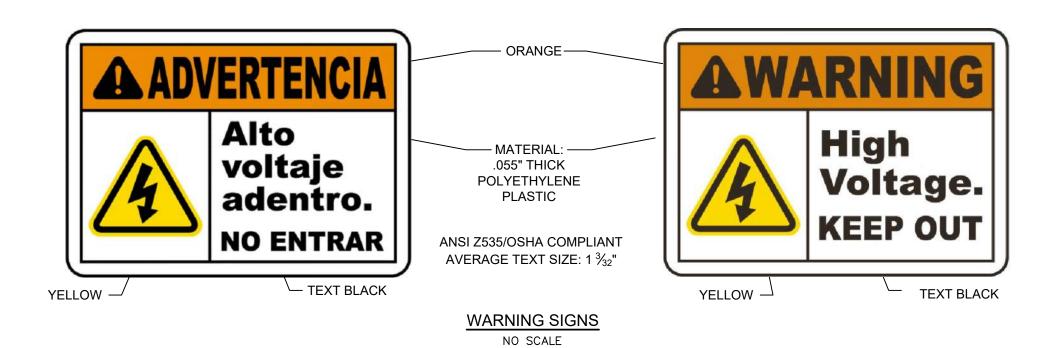
(CD UNIT ACCESS)



CONCEPTUAL BESS CONTAINER DETAIL

NO SCALE

SIGNAGE DETAILS



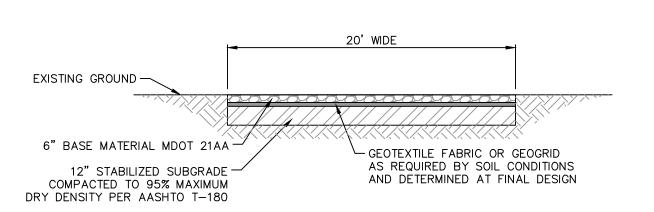
WARNING: HAZARDOUS VOLTAGE AUTHORIZED ACCESS

NOTES:

- 1. TOP OF SIGN TEXT 125 mm (5") MIN CLEAR SPACE FROM GATE OR DOOR
- JAMB (STRIKE SIDE).

 2. PROVIDE A BLANK PANEL FOR BACK SIDE.
- CONTRAST BETWEEN CHARACTER, SYMBOLS AND THEIR BACKGROUND SHALL BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- 4. CHARACTERS SHALL HAVE A WIDTH—TO—HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH—TO—HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- 5. SIGN SHALL BE 1 mm (0.04") THK (MIN) ALUMINUM SHEET. 6. RAISED UPPERCASE LETTER 1 mm ($\frac{1}{3}$ 2") TALL, MIN. 7. FOR PCS TRANSFORMER MV COMPARTMENT.

AUTHORIZED PERSONNEL SIGNAGE NO SCALE



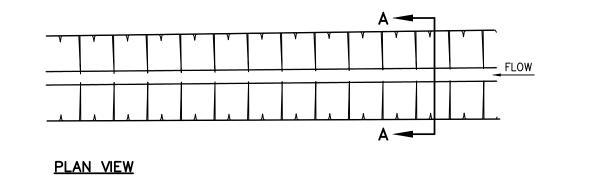
20' WIDE ACCESS PATHWAY

NO SCALE

GENERAL NOTES

- 1. BESS SOURCE: NEXTERA 2024. THIS PLAN IS FOR PERMITTING PURPOSES AND THE FINAL PLAN WILL BE SUBMITTED PRIOR TO CONSTRUCTION.
- 2. THE PERIMETER OF THE BESS FACILITY WILL BE COMPLETELY ENCLOSED BY PERIMETER FENCING.
- 3. EXISTING DRAINAGE PATTERNS WILL GENERALLY BE MAINTAINED TO FOLLOW EXISTING CONDITIONS. THE SITE WILL BE GRADED IN
- ACCORDANCE WITH THE GRADING PLAN.

 4. DURING CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH PERMITTING REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.



TOP OF BANK

##

SECTION A-A

TOP OF BANK

SWALE CENTERLINE

SWALE DETAIL

NO SCALE

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.

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TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248.447.2000

VN, RANGE: T13N, R08E

FAIRGROVE TOWNSHIP

COLINTY MICHIGAN

TUSCOLA II ENERGY STORAGE, LLC

TUSCOLA II ENERGY STORAGE PROJECT

SPECIAL LAND USE PERMIT —
SITE PLANS

GENFRAI DETAILS

DATE 07/01/2025

REV 08/20/2025

REVISIONS

DR. MB CH. BS
P.M. BS
BOOK -JOB 24005306

SHEET NO.

SEEDING SPECIFICATION

SEEDING CAN BE USED FOR TEMPORARY OR PERMANENT STABILIZATION. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED SHALL BE TEMPORARILY AND/OR PERMANENTLY SEEDED IMMEDIATELY FOLLOWING THE CONCLUSION OF GRADING ACTIVITIES (WEATHER PERMITTING) AND MUST BE COMPLETED WITHIN FIVE (5) DAYS. TEMPORARY AND PERMANENT SEED MIXTURES ARE SPECIFIED BELOW. TEMPORARY SEED MIX SHALL ALSO BE APPLIED DURING THE APPLICATION OF THE PERMANENT SEED MIX TO ENSURE TIMELY VEGETATIVE COVER OF EXPOSED AREAS.

IMMEDIATELY AFTER SEEDING. MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY UNIFORMLY AT THE RATE OF 1-1/2 TONS TO 2 TONS PER ACRE OR 100 POUNDS PER 1000 SQUARE FEET. ANCHOR MULCH WITH DISC-TYPE ANCHORING TOOL OR OTHER MEANS APPROVED BY THE LOCAL REGULATORY AGENCY.

SEEDING MIXTURES

SEE SEED MIXES IN TEMPORARY & PERMANENT SEED CHARTS.

SLOPES FLATTER THAN 3:1 (NOT INCLUDING BASINS)

APPLY 17-17-17 COMMERCIAL ORGANIC FERTILIZER AT A RATE OF 20 LBS PER 1000 SQ/FT. SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

SEED VARIETY

(SEE CHART BELOW)

TEMPORARY SEEDINGPLANTING DATES IMMEDIATELY FOLLOWING LAST DISTURBANCE OR

SEED VARIETY APPLICATION RATE (SEE CHART BELOW) 60 LBS PER ACRE

WITHIN 14 DAYS PERMANENT SEEDING PLANTING DATES

APPLICATION RATE 80 LBS PER ACRE

PREFERABLE EARLY SPRING

OR EARLY FALL

SLOPES 3:1 OR GREATER (NOT INCLUDING BASINS) APPLY 17-17-17 COMMERCIAL ORGANIC FERTILIZER AT A RATE OF 20 LBS PER 1000 SQ/FT. AND SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

TEMPORARY SEEDING PLANTING DATES IMMEDIATELY FOLLOWING

APPLICATION RATE SEED VARIETY (SEE CHART BELOW)

LAST DISTURBANCE OR WITHIN 5 DAYS

60 LBS PER ACRE

PERMANENT SEEDING PLANTING DATES PREFERABLE EARLY SPRING OR EARLY FALL

SEED VARIETY (SEE CHART BELOW) APPLICATION RATE **80 LBS PER ACRE**

TEMPORARY SEED SEED: 60 LBS PER ACRE

> 40% SEED OATS 25% KENTUCKY 31 TALL FESCUE 22% CREEPING RED FESCUE 11% TIMOTHY

1.0% INERT MATTER 1.0% OTHER CROP 0.01% WEED SEED

PERMANENT SEED SEED 80 LBS PER ACRE MIX:

> 70% TRUE BLUE KENTUCKY (BROOKLAWN, BOUTIQUE, GROME, AND H92-203 KENTUCKY BLUEGRASS)

30% PERENNIAL RYE GRASS (MANHATTAN 4, CHARGER, CITATION 4, AND PIZZAZZ PERENNIAL RYE GRASS)

SEED BED PREPARATION (PERMANENT SEEDING)

WEED CONTROL MEASURES SHALL BE TAKEN THE SEASON PRIOR TO PERMANENT PLANTING. SURFACE WATER CONTROL MEASURES SHALL BE IN PLACE. THE PLANTING AREA MUST BE WEED-FREE FOR SUCCESSFUL VEGETATIVE ESTABLISHMENT. AREA TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL. TOTAL SEEDBED PREPARED DEPTH SHOULD BE AT LEAST 4 INCHES. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS NEED TO BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH THE ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION SHOULD BE AT FINISH GRADE AND BE REASONABLY SMOOTH AND UNIFORM.

TOPSOIL IN THE AREA TO BE SEEDED SHALL BE TESTED FOR PH, MAGNESIUM (MG), POTASSIUM (K), AND PHOSPHOROUS (P) PRIOR TO PERMANENT PLANTING. APPLY FERTILIZER AND LIME ACCORDING TO SOIL TEST REPORT. FERTILIZER AND LIME SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION. WEIGHTS, SEED SPECIES AND PERCENTAGE OF PURITY AND GERMINATION MUST BE CHECKED PRIOR TO SEEDING.

SEEDING SHALL BE ACCOMPLISHED IN TWO DIRECTIONS AND AT RIGHT ANGLES TO EACH OTHER. LAWN AREAS SHALL BE SEEDED AT THE RATE INDICATED ABOVE BY SOWING EVENLY WITH AN APPROVED SEEDER TO COVER THE SEED AND FORM THE SEEDBED IN ONE OPERATION. IF BROADCAST SEEDER IS USED THE SEEDING RATE SHALL BE TWO (2) TIMES THE DRILL RATE. IN INACCESSIBLE AREAS, THE SEED SHALL BE LIGHTLY RAKED WITH FLEXIBLE RAKES AND ROLLED WITH A WATER BALLAST ROLLER. AFTER ROLLING SEEDED AREAS ARE TO BE MULCHED ACCORDING TO SPECIFICATION. IF HYDRO-SEED OPERATION IS USED, SEEDING RATE SHALL BE FIVE (5) TIMES THE DRILL RATE INDICATED ON THE DRAWINGS.

IF SEEDING CAN NOT BE ACCOMPLISHED DUE TO SEASONAL CONSTRAINTS, APPLY STRAW MULCH AND TACKIFIER TO ALL SLOPES AND DISTURBED AREAS UNTIL PERMANENT SEEDING IS ALLOWED. IN THE EVENT SEEDING OCCURS OUT OF SEASON, MAINTENANCE SHALL OCCUR AND CONTINUE INTO THE FOLLOWING GROWING SEASON OR UNTIL A UNIFORM STAND OF THE SPECIFIED PERMANENT GRASSES HAVE BEEN ESTABLISHED AND THE SITE HAS REACHED STABILIZATION. THE POLLINATOR HABITAT SEED MIX WILL TAKE APPROXIMATELY THREE YEARS TO ESTABLISH. THE PERMANENT AND TEMPORARY SEEDING SHALL BE ACCOMPLISHED THROUGHOUT THE CONSTRUCTION PROCESS.

INSPECTION

INSPECT SEEDED AREAS FREQUENTLY. IF SEEDED AREAS FAIL TO GERMINATE. OR TO PROVIDE ADEQUATE GROUND COVERAGE. THE AREA SHALL BE RE-SEEDED UNTIL FINAL STABILIZATION IS ACHIEVED.

PLANTING SCHEDULE:



DECIDUOUS TREES

ACER SACCHARUM / SUGAR MAPLE QUERCUS ALBA / WHITE OAK

QUERCUS MACROCARPA / BUR OAK QUERCUS RUBRA / RED OAK TILIA AMERICANA / AMERICAN LINDEN **EVERGREEN TREES**

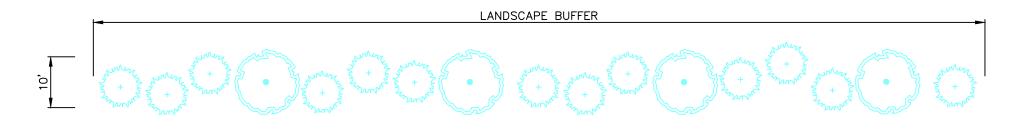
ABIES BALSAMEA / BALSAM FIR

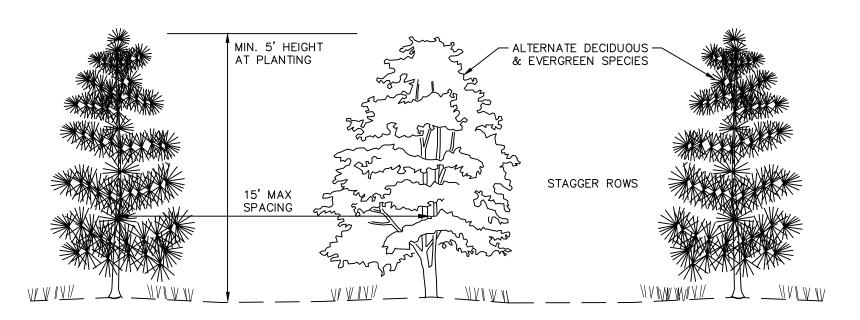
PINUS STROBUS / WHITE PINE

ABIES CONCOLOR / WHITE FIR

PICEA GLAUCA / WHITE SPRUCE PINUS RESINOSA / RED PINE

NOTE: THE PLANT SPECIES LISTED ARE REPRESENTATIVE OF THOSE TO BE INSTALLED. THIS LIST IS NOT CONSIDERED TO BE ALL INCLUSIVE DUE TO AVAILABILITY AT THE TIME OF INSTALLATION, AND SIMILAR SUBSTITUTE SPECIES NATIVE TO MICHIGAN MAY BE NECESSARY





- 1. A MIX OF EVERGREEN TREES, DECIDUOUS TREES IS PROPOSED WITHIN VEGETATIVE SCREENING AREAS FOR THE PROJECT ALONG NON-PARTICIPATING RESIDENTIAL OR PUBLIC USES WHERE ADEQUATE SCREENING DOES NOT EXIST.
- 2. TREES TO BE STAGGERED IN ROWS WITHIN A 20' VEGETATION BUFFER.
- 3. A 10' MINIMUM MAINTENANCE BUFFER WILL BE USED BETWEEN THE PROPOSED VEGETATIVE SCREENING AND PERIMETER FENCING.

VEGETATION MAINTENANCE PLAN:

- PLANT MATERIAL WILL MEET THE AMERICAN NURSERY STANDARDS.
- 2. ALL PLANTS WILL BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- 3. ALL PLANTS WILL BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT
- 4. ALL TREES WILL BE STRAIGHT TRUNKED AND FULL-HEADED AND MEET ALL THE REQUIREMENTS
- 5. ALL TREES WILL BE GUYED OR STAKED AS SHOWN IN THE DETAILS OR WRITTEN SPECIFICATIONS.
- 6. ANY DEAD PLANT MATERIAL AS PART OF THE PROJECT LANDSCAPE PLAN SHALL BE REPLACED DURING THE NEXT GROWING SEASON.
- 7. ALL TREES IN LEAF AFTER BEING DUG AT THE NURSERY SOURCE WILL BE ACCLAIMED FOR TWO (2) WEEKS MINIMUM UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- 8. PRESERVED TREES WILL BE PROTECTED AND UNDAMAGED DURING CONSTRUCTION
- 9. PLANTS OR GRASSES NOT PART OF THE REQUIRED LANDSCAPING BUFFER WILL NOT EXCEED 12 INCHES IN HEIGHT UNLESS APPROVED BY THE PLANNING COMMISSION.



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

Call before you div UNDERGROUND UTILITIES ARE
SHOWN IN AN APPROXIMATE WA
ONLY AND HAVE NOT BEEN
INDEPENDENTLY VERIFIED BY TH
OWNER OR ITS REPRESENTATIVE THE CONTRACTOR SHALL DETERMING THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE DIMMENCING WORK, AND AGREES BE FULLY RESPONSIBLE FOR AN AND ALL DAMAGES WHICH MIGHT OCCASIONED BY THE CONTRACTOR

> UNDERGROUND UTILITIES. CONSTRUCTION SITE SAFETY IS TI SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNE NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGEN IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

AILURE TO EXACTLY LOCATE

PRESERVE ANY AND ALL

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REVISIONS

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