RECORD DRAWINGS

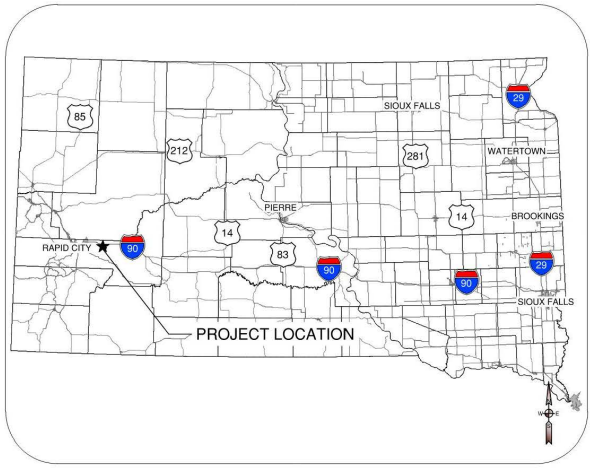
CIVIL CONSTRUCTION DRAWINGS

FOR

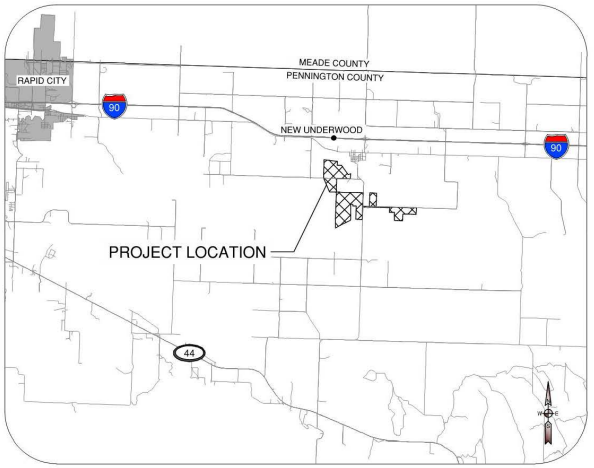
WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

MAY, 2024



STATE MAP



VICINITY MAP

PROJECT DATA INFORMATION

BASE FILE	FILE NAME	PROVIDER	DATE
FEMA	WILDSPRINGS_FLOODPLAIN_FEMA.SHP, LOMR_REQUEST_FLOODPLAIN_BOUNDARY.SHP WSS_FEMA_20220125.SHP	NATIONAL GRID RENEWABLES	210212
TOPOGRAPHY	0007627.00 Wild Springs Solar 1ft Contours Model Keypoints.220912.XML	NATIONAL GRID RENEWABLES	220912
WETLANDS	HU8_10120111_WATERSHED.SHP, HU8_10120111_WETLANDS.SHP	Public Data - U.S. Fish & Wildlife Service, National Wetlands Inventory	210212
WETLAND DELINEATION	WETLANDS_FIELD_WILD_SPRINGS.SHP,WS_WETLANDS_EXPANSION.SHP, WSS_WETLANDS_BUFFER_50FT_20220804.SHP	Public Data - U.S. Fish & Wildlife Service, National Wetlands Inventory	220801
ALTA SURVEY	7b_20.01926_Wild_Springs__ALTA.DWG	NATIONAL GRID RENEWABLES	220715
PROJECT LAYOUT	WILD SPRINGS PROJECT SHAPE FILES.ZIP, WILDSPRINGS_PROJECTBOUNDARY_20200114.ZIP WILD SPRINGS ADDITIONAL BUILDABLE AREA 20220119.KMZ	NATIONAL GRID RENEWABLES	180124
CULTURAL UPDATES	WILDSPRINGS_ADDITIONALAVOIDANCEAREAS_20210324	NATIONAL GRID RENEWABLES	210324
GEOTECHNICAL	20205110 GER (7-25-2022).PDF	TERRACON	220725
GEOTECHNICAL ZONES	20205110 - Wild Springs Zoning Map.KMZ	TERRACON	221130

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PENNINGTON COUNTY,
SOUTH DAKOTA

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4	02/29/2024	RECORD DRAWINGS	BMB
5	03/04/2024	RECORD DRAWINGS	BMB
6	05/24/2024	RECORD DRAWINGS	BMB

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NSRS 2011 South Dakota State Planes, South Zone, US Foot

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DRAWN BY: R. KAWLESKI
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PROJECT NO: 22.11742

CONTACT: ULTEIG.COM

COVER

DRAWING NUMBER: WSS-C-100-01

REVISION: 6

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WSS-C-500-05	CONSTRUCTION NOTES	0
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WSS-C-522-07	EROSION AND SEDIMENT CONTROL PLAN 6	2
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WSS-C-900-01	ENTRANCE - 1&2 PARCEL MAP	0
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WSS-C-900-03	ENTRANCE - 2	1
WSS-C-900-04	ENTRANCE - 3&9 PARCEL MAP	0
WSS-C-900-05	ENTRANCE - 3	1
WSS-C-900-06	ENTRANCE - 9	1
WSS-C-900-07	ENTRANCE - 4 PARCEL MAP	0
WSS-C-900-08	ENTRANCE - 4	1
WSS-C-900-09	ENTRANCE - 5 PARCEL MAP	0
WSS-C-900-10	ENTRANCE - 5	1
WSS-C-900-11	ENTRANCE - 6&7 PARCEL MAP	0
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INDEX OF DRAWINGS

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REVISION: 5

GENERAL NOTES

1. THE PLANS UTILIZE HORIZONTAL DATUM: NSRS 2011 SOUTH DAKOTA STATE PLANES, SOUTH ZONE, US FOOT.
2. GROUND SURFACE CONTOURS AND ELEVATIONS WERE COMPLETED BY WESTWOOD AND PROVIDED BY NATIONAL GRID RENEWABLES.
3. THE ACCURACY OF THE TOPOGRAPHIC SURVEY IS RSME 0.29. THE DESIGN SURFACE DISPLAYED IN THE PLANS WAS DEVELOPED FROM CONTOUR LINES PROVIDED BY NATIONAL GRID RENEWABLES AND MAY RESULT IN DEVIATIONS FROM ACTUAL GROUND SURFACE ELEVATIONS. WHERE MAJOR VARIATIONS ARE FOUND, THE OWNER AND ENGINEER SHALL BE NOTIFIED. ADDITIONAL GRADING MAY BE REQUIRED, AS WELL AS ENCOUNTERING ADDITIONAL EXISTING INFRASTRUCTURE, UTILITIES, AND OBSTACLES WHICH WERE NOT DIGITIZED AND MAY NOT APPEAR ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE MINOR ADJUSTMENTS WHILE STAYING WITHIN THE CONSTRUCTION LIMITS TO AVOID THESE ITEMS WHEN REQUIRED. CONTRACTOR SHALL BE ENTITLED TO RELIEF FOR DISCREPANCIES OF A MAJOR NATURE. CONTRACTOR SHALL FOLLOW ALL NOTICE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. THE PROJECT ALTA SURVEY WAS COMPLETED BY WESTWOOD AND PROVIDED BY NATIONAL GRID RENEWABLES. PROPERTY LINES, ROW LINES, AND EASEMENTS AND OTHER LINEWORK FROM THE ALTA SURVEY WERE USED TO COMPLETE THE DESIGN.
5. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. IF MONUMENT CANNOT BE AVOIDED, THE CONTRACTOR SHALL NOT REMOVE THE MONUMENT UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED AND DOCUMENTED ITS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING DAMAGED PROPERTY MARKERS AND MONUMENTS.
6. THE CONTRACTOR SHALL NOTIFY SOUTH DAKOTA STATE ONE CALL (1-800-781-7474 OR 811) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING 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 AND LANDOWNER. ALL UTILITIES NOT IDENTIFIED BUT REQUIRED TO BE RELOCATED SHALL BE LOCATED ON THE AS-BUILT DOCUMENTS. CONTRACTOR SHALL BE ENTITLED TO COST & SCHEDULE RELIEF FOR RELOCATION OF UTILITIES NOT SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL NOTIFY AND COORDINATE ALL WORK WITH THE UTILITY COMPANIES IF WITHIN THEIR ROW.
9. CONTRACTOR SHALL VERIFY CROSSING DESIGNS WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR DAMAGES TO UTILITIES DURING CONSTRUCTION.
10. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
11. 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 OWNER.
12. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE AND MINIMIZING PONDING THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES.
13. CONTRACTOR SHALL NOT DISTURB AREAS LOCATED WITHIN DELINEATED WETLANDS OR JURISDICTIONAL WATERS SHOWN ON THE PLANS. TREE CLEARING ACTIVITIES MAY BE ONLY COMPELTED IN AREAS SHOWN ON THE PLANS AND MAY ONLY BE COMPLETED USING NON-MACHNICAL DEVICES.
14. 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.
15. 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.
16. FINAL GRADING SHALL MEET REQUIREMENTS OF THE SINGLE-AXIS TRACKER RACKING.
17. ALL RESTORATION SHALL MEET REQUIREMENTS OF PROJECT SWPPP FOR SOIL DECOMPACTION.
18. UNLESS OTHERWISE NOTED, ROADS, TEMPORARY DISTURBANCE AREAS, ETC. SHALL BE CONSTRUCTED AT OR NEAR EXISTING GRADE. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT COMPLETED BY TERRACON, AND REMOVE TOPSOIL, COMPACT & PROOF-ROLL SUBGRADE, AND PLACE AN AGGREGATE BASE COURSE WHERE SHOWN ON PLANS.
19. ALL CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN THE PROJECT LIMITS AS SHOWN IN THE PLANS.
20. 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.
21. 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 ULTEIG RECOMMENDATIONS. ALL WORK COMPLETED OUTSIDE THESE LIMITS MUST BE DOCUMENTED AND CAPTURED IN THE AS-BUILT DRAWINGS DEVELOPED AT THE END OF THE PROJECT.
22. DISPOSE OF ALL WASTE MATERIALS LEGALLY OFF SITE AT A LICENSED WASTE MANAGEMENT FACILITY. BURNING OF WASTE MATERIAL ON SITE IS NOT PERMITTED.

DESIGN CODES AND STANDARDS

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. NEXTRACKER HORIZON RACKING INSTALLATION
14. REQUIREMENTS APPLICABLE TO THE PLANNED INSTALLATION
15. SDDOT SPECIFICATIONS – STATE SPECIFIC REQUIREMENTS
16. PENNINGTION COUNTY – 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 REQUIRED TO BE FILLED SHALL BE PREPARED AND FILL SHALL BE PLACED IN ACCORDANCE WITH RECOMMENDATIONS OF THE THE TERRACON GEOTECHNICAL REPORT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE, SPREAD, WATER AND COMPLETE THE FILL IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.
   c. 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
   d. ALL NON-SUITABLE MATERIAL (MUCK, ROCK, PEAT, ETC.) SHALL BE REMOVED BELOW ANY NEW ACCESS ROADS, CUT/FILL GRADING AREAS, AND FACILITIES, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. ALL REMOVED MATERIAL SHALL BE STOCKPILED IN AN APPROVED ON-SITE LOCATION (NO TRUCKING OF MATERIAL) LOCATION BY THE OWNER AND/OR CONTRACTOR.
   e. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED THROUGHOUT CONSTRUCTION AND POST-CONSTRUCTION. LOCAL PONDING MAY OCCUR DURING CONSTRUCTION.
   f. GRADING DESIGN FOLLOWS RESULTS FROM 100-YR 24-HR HYDROLOGY STUDY TO MEET EQUIPMENT AND MODULE SPECIFICATIONS. HYDROLOGY RESULTS CAN BE FOUND IN "22.11742_Report_60percent_Final.PDF"
2. CULVERTS
   a. SEE THE DRAINAGE SCHEDULE FOR CULVERT LOCATIONS. CULVERTS PLANNED FOR PRIVATE ENTRANCES SHALL BE CORRUGATED METAL PIPE AND MEET H20 LOADING.
   b. CULVERT EXTENSIONS SHALL MATCH THE EXISTING PIPE SIZE / MATERIAL.
   c. PERMANENT AND TEMPORARY DRAINAGE CULVERTS ARE DESIGNED TO CONVEY STORM WATER FOR A MINIMUM 24-HR 10 YR STORM EVENT AND TO WITHSTAND A 24-HR 25-YR STORM EVENT.
   d. REUSED CORRUGATED METAL PIPE (CMP) OR CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE) MAY BE USED AS TEMPORARY CULVERTS. ALL CULVERTS USED FOR TEMPORARY CROSSINGS SHALL MEET H20 LOADING.
   e. THE CONTRACTOR SHALL VERIFY WITH PIPE SUPPLIER THAT THE MINIMUM COVER SHOWN IS ADEQUATE FOR H2O LOADING OR CONSTRUCTION EQUIPMENT LOADING WHICHEVER IS GREATER.
   f. ALL PERMANENT CULVERTS SHALL BE INSTALLED TO COUNTY REQUIREMENTS.
   g. IT IS EXPECTED THAT CULVERTS SHALL OVERTOP DURING STORM EVENTS GREATER THAN 24-HR 5 YR EVENTS AND PERIODIC MAINTENANCE MIGHT BE REQUIRED DURING O&M PERIOD.
3. LOW WATER CROSSINGS
   a. ALL PERMANENT LOW WATER CROSSINGS ARE SIZED TO WITHSTAND A 24-HR 25-YR RAIN EVENT. SEE THE DRAINAGE SCHEDULE FOR THE LOW WATER CROSSING LOCATIONS AND REQUIRED INSTALLATIONS DETAILS.
   b. TEMPORARY LOW WATER CROSSINGS SHALL BE CONSTRUCTED TO MEET REQUIREMENTS FOR ANTICIPATED CONSTRUCTION TRAFFIC. THE CONTRACTOR SHALL REMOVE ANY NON-SUITABLE MATERIAL AND COMPACT AND/OR UTILIZE MATS TO MEET TRAVEL REQUIREMENTS.

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. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNERS REPRESENTATIVE 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, MARKETING, BURNING, OR BURYING.
2. TOPSOIL STRIPPING
   a. ALL AREAS TO BE EXCAVATED SHALL BE STRIPPED OF VEGETATION AND TOPSOIL. ANY TRENCHING ACROSS THE SITE UNDER 10' WIDE WILL NOT NEED TOPSOIL REMOVED. 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 4"-6". IF DEEPER AREAS ARE OBSERVED THE MATERIAL SHALL BE REMOVED AS REQUIRED.
   b. ANY TOPSOIL THAT HAS BEEN STRIPPED SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AS DESIGNATED ON THE PLAN. IF USED AS FILL OUTSIDE THE DISTURBED AREA, PRIOR APPROVAL IS REQUIRED FROM ENGINEER. TOPSOIL STOCKPILES SHALL BE SEGREGATED FROM THE NATIVE SOIL STOCKPILES. ALL TOPSOIL SHALL BE REDISTRIBUTED ON THE LANDOWNERS PROPERTY 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 AS SHOWN ON THE PLANS.
   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 SHALL RECEIVE ADDITIONAL MATERIAL PRIOR TO RECOMPACTION.
   e. DO NOT COMMENCE EXCAVATIONS FOR FOUNDATIONS UNTIL OWNER HAS APPROVED: 1) THE REMOVAL OF TOPSOIL AND OTHER UNSUITABLE AND UNDESIRABLE MATERIAL FROM THE EXISTING SUBGRADE, 2) DENSITY AND MOISTURE CONTENT OF SITE AREA COMPACTED FILL MATERIAL MEETS REQUIREMENTS OF SPECIFICATIONS.
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" FOR COHESIVE SOILS OR 12" FOR GRANULAR SOILS 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 2 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 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. ACCESS ROADS ARE TO BE CONSTRUCTED FOR YEAR ROUND ACCESS. HOWEVER, PERIODIC ROADWAY MAINTENANCE SUCH AS GRADING AND BLADING IN THE SPRING IS REQUIRED TO MAINTAIN POSITIVE DRAINAGE.
2. VERTICAL AND HORIZONTAL DESIGN PARAMETERS SHALL BE PER THE OWNER SPECIFICATIONS.
3. ACCESS ROADS SHALL MAINTAIN A 1% (MIN.) - 2% (MAX.) CROWN OR A 0.5% (MIN.) TO 4% (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.
4. SURFACE AGGREGATE SHALL BE TESTED AS PER THE FREQUENCY INDICATED IN TABLE 1.
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. GEOTEXTILE FABRIC, WHERE NECESSARY, SHALL BE HP270 OR ENGINEER APPROVED EQUIVALENT.
8. ROAD SECTION AND SPECIFICATIONS SHOWN ON THE PLANS WERE PREPARED BY ULTEIG BASED ON THE SOIL CONDITIONS REPORTED IN GEOTECHNICAL REPORT. CONTRACTOR TO INSTALL 6" OF AGGREGATE DURING CONSTRUCTION AND SHALL BE MAINTAINED THROUGH THE CONSTRUCTION PROCESS. CONTRACTOR TO INSTALL A 2" CAP WHERE NECESSARY TO MEET RUTTING REQUIREMENTS.
9. MINIMUM WIDTH OF ACCESS ROADS SHALL BE 16'. ALL ROADS MUST HAVE A MINIMUM INTERNAL RADIUS OF 50'.
10. GRADATION SPECIFICATIONS - SDDOT TYPE 5 OR 6 SUBBASE COURSE AGGREGATE COMPACTED TO 95%. (SEE TABLE BELOW).

LAYDOWN YARD/STORAGE YARD

1. THE LAYDOWN YARD /STORAGE YARD SHALL CONSIST OF COMPACTED NATIVE MATERIAL.
2. CONTRACTOR MAY PLACE GRAVEL OR MULCH AS NEEDED THROUGHOUT LAYDOWN AREAS.
3. COMPACTED SUBGRADE SHALL BE MOISTURE CONDITIONED AND COMPACTED AS PER THE SPECIFICATION OF TABLE 2.
4. FOLLOWING PROJECT COMPLETION, THE NATIVE MATERIAL SHALL BE DECOMPACTED AND PERMANENTLY STABILIZED IN ACCORDANCE WITH PROJECT SWPPP SPECIFCATIONS.

AGGREGATE GRADATION REQUIREMENTS
(SDDOT SPECIFICATION 882.2 AGGREGATE BASE COURSE)

SIEVE SIZE	PERCENT PASSING (TARGET)
ALL ROADS EXCLUDING ENTRANCES	
1"	100
¾"	80-100
⅜"	68-91
NO. 4	46-70
NO. 8	34-58
NO. 40	13-35
NO. 200	3-12
CONSTRUCTION ENTRANCES AGGREGATE GRADATION REQUIREMENT	
3"	100
2 ½"	90-100
1 ½"	25-60
¾"	0-10
½"	0-5

NOTES:
1. THE FRACTION PASSING THE #200 SIEVE SHALL NOT BE GREATER THAN ⅔ OF THE FRACTION PASSING THE #40 SIEVE. IN NO CASE SHALL THE UPPER LIMIT SPECIFIED FOR THE #200 SIEVE BE EXCEEDED.

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

NSRS 2011 South Dakota State Planes, South Zone, US Foot

Ulteig
We listen. We solve.™
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

CONSTRUCTION NOTES

DRAWING NUMBER: WSS-C-500-01
REVISION: 0

FENCING AND GATES

1. FENCE AND GATES SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
   - 1.1. A153/A153M - STANDARD SPECIFICATION FOR ZINC COATING (HOT DIP) ON IRON AND STEEL HARDWARE
   - 1.2. A392 - STANDARD SPECIFICATION FOR ZINC-COATED STEEL CHAIN-LINK FENCE FABRIC
   - 1.3. A824 - STANDARD SPECIFICATION FOR METALLIC-COATED STEEL MARCELLED TENSION WIRE FOR USE WITH CHAIN-LINK FENCE
   - 1.4. F552 - STANDARD TERMINOLOGY RELATING TO CHAIN-LINK FENCING
   - 1.5. F567 - STANDARD PRACTICE FOR INSTALLATION OF CHAIN-LINK FENCE
   - 1.6. F626 - STANDARD SPECIFICATION FOR FENCE FITTINGS
   - 1.7. F900 - STANDARD SPECIFICATION FOR INDUSTRIAL AND COMMERCIAL STEEL SWING GATES
   - 1.8. F1043 - STANDARD SPECIFICATION FOR STRENGTH AND PROTECTIVE COATING ON STEEL INDUSTRIAL FENCE FRAMEWORK.
   - 1.9. F1083 - STANDARD SPECIFICATION FOR PIPE, STEEL, HOT-DIPPED ZINC-COATED (GALVANIZED) WELDED, FOR FENCE STRUCTURES
2. FENCE AND GATE COMPONENTS SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - 2.1. CHAIN-LINK FABRIC:
     - 2.1.1. ASTM A392 ZINC-COATED STEEL (COATED BEFORE WEAVING, 1.2 OZ/SF)
     - 2.1.2. WIRE GAGE: 11
     - 2.1.3. MESH SIZE: 2IN
     - 2.1.4. 7 FT TALL FROM BOTTOM OF FABRIC TO TOP OF BARBED WIRE
     - 2.1.5. SELVAGE TREATMENT:
       - 2.1.5.1. TOP: TWISTED
       - 2.1.5.2. BOTTOM: KNUCKLED
   - 2.2. LINE POST:
     - 2.2.1. ASTM F1043 AND ASTM 1083 HIGH STRENGTH GRADE PIPE - SCHEDULE 40, TRADE SIZE 1-7/8" (O.D.)
   - 2.3. CORNER TERMINAL POSTS:
     - 2.3.1. ASTM F1043 AND ASTM F1083 HIGH STRENGTH GRADE PIPE - SCHEDULE 40, TRADE SIZE 2-7/8" (O.D.)
   - 2.4. GATE POSTS:
     - 2.4.1. ASTM F1043 AND ASTM F1083 HIGH STRENGTH GRADE PIPE - SCHEDULE 40, TRADE SIZE 4" (O.D.)
   - 2.5. BRACE AND RAILS:
     - 2.5.1. ASTM F1043 AND ASTM F1083 HIGH STRENGTH GRADE PIPE - SCHEDULE 40, TRADE SIZE 1-5/8" (O.D.)
   - 2.6. TENSION WIRE:
     - 2.6.1. TOP AND BOTTOM FABRIC - ASTM A824, GALVANIZED STEEL, CLASS 3, 7 GAUGE
   - 2.7. BARBED WIRE:
     - 2.7.1. ASTM A121 (ZINC COATED) OR ASTM A585 (ALUMINUM COATED) - 3 STRAND, 12 GAUGE WIRE WITH 2-POINT, 14 GAUGE BARBS SPACED APPROX. 5 INCHES
   - 2.8. TIE WIRE AND HOG RINGS:
     - 2.8.1. ASTM B211 WIRE - NO. 9 GAUGE
   - 2.9. FENCE FITTINGS:
     - 2.9.1. POST AND LINE CAPS, RAIL AND BRACE ENDS, SLEEVES-TOP RAIL, TIE WIRES AND CLIPS, TENSION AND BRACE BANDS, TENSION BARS, TRUSS RODS - ASTM F626
   - 2.10. SLIDING GATE:
     - 2.10.1. ASTM ASTM F1184-16
     - 2.10.2. MATERIAL AS SPECIFIED FOR FENCE FRAMEWORK AND FABRIC
     - 2.10.3. HARDWARE - GALVANIZED PER ASTM A153, PROVIDE HEAVY DUTY PADLOCK
3. INSTALLATION:
   - 3.1. INSTALL IN ACCORDANCE WITH: MANUFACTURE'S INSTRUCTIONS, LINES AND GRADES SHOWN IN DRAWINGS, ASTM F567
   - 3.2. DO NOT START FENCE INSTALLATION BEFORE FINAL GRADING IS COMPLETE AND FINISH ELEVATIONS ARE ESTABLISHED.
   - 3.3. DRILL HOLES IN FIRM UNDISTURBED OR COMPACTED SOIL.
   - 3.4. 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).
   - 3.5. SPACE LINE POSTS AT EQUAL INTERVALS NOT EXCEEDING 10FT OC.
   - 3.6. PULL POSTS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS TO ENSURE PROPER TENSION OF MESH. THIS MAY BE IN LOCATIONS OF CONTINUOUS SECTIONS WHERE END, CORNER & LINE BRACE POSTS ARE NOT SPECIFIED OR AT SHARP GRADE BREAKS.
   - 3.7. PROVIDE POST BRACES FOR EACH GATE, CORNER, PULL AND TERMINAL POST AND FIRST ADJACENT LINE POST.
   - 3.8. INSTALL TENSION BARS FULL HEIGHT OF FABRIC.
   - 3.9. RAILS: 1) FIT RAILS WITH EXPANSION COUPLINGS OF OUTSIDE SLEEVE TYPE, 2) RAILS CONTINUOUS FOR OUTSIDE SLEEVE TYPE FOR FULL LENGTH OF FENCE
   - 3.10. PROVIDE EXPANSION COUPLINGS IN TOP RAILS AT NOR MORE THAN 20 FT INTERVALS.
   - 3.11. ANCHOR TOP RAILS TO MAIN POSTS WITH APPROPRIATE WROUGHT OR MALLEABLE FITTINGS.
   - 3.12. INSTALL BRACING ASSEMBLIES AT ALL END AND GATE POSTS, AS WELL AS SIDE, CORNER AND PULL POSTS.
     - 3.12.1. LOCATE COMPRESSION MEMBERS AT MID-HEIGHT OF FABRIC.
     - 3.12.2. EXTEND DIAGONAL TENSION MEMBERS FROM COMPRESSION MEMBER TO BASES OF POSTS.
     - 3.12.3. INSTALL SO THAT POSTS ARE PLUMB WHEN UNDER CORRECT TENSION.
   - 3.13. PULL FABRIC TAUT AND SECURE TO POSTS AND RAILS.
     - 3.13.1. SECURE SO THAT FABRIC REMAINS IN TENSION AFTER PULLING FORCE IS RELEASED.
     - 3.13.2. SECURE TO POSTS AT NOT OVER 15 IN OC, AND TO RAILS NOT OVER 24 IN OC, AND TO TENSION WIRES AT NOT OVER 24 IN OC.
     - 3.13.3. USE U-SHAPED WIRE CONFORMING TO DIAMETER OF PIPE TO WHICH ATTACHED, CLASPING PIPE AND FABRIC FIRMLY WITH ENDS TWISTED AT LEAST TWO (2) FULL TURNS.
     - 3.13.4. BEND ENDS OF WIRE TO MINIMIZE HAZARDS TO PERSONS OR CLOTHING
   - 3.14. INSTALL POST TOP AT EACH POST.
   - 3.15. GATES:
     - 3.15.1. CONSTRUCT WITH FITTINGS OR BY WELDING.
     - 3.15.2. PROVIDE RIGID, WEATHERPROOF JOINTS.
     - 3.15.3. ASSURE RIGHT, NON-SAGGING, NON-TWISTING GATE.
     - 3.15.4. COAT WELDS WITH RUST PREVENTIVE PAINTS, COLOR TO MATCH PIPE.
   - 3.16. GROUNDING
     - 3.16.1. PERIMETER FENCE BONDING AND GROUNDING SHALL BE DONE IN ACCORDANCE WITH NEC 2020 ARTICLE 691.11. REQUIREMENTS ARE TO BE ASSESSED BASED ON THE "PRESENCE OF OVERHEAD CONDUCTORS, PROXIMITY TO GENERATION AND DISTRIBUTION EQUIPMENT AND ASSOCIATED STEP AND TOUCH POTENTIAL." MINIMUM REQUIREMENTS FOR PERIMETER FENCE GROUNDING INCLUDE:
     - 3.16.2. GROUNDING AND BONDING OF GATES IN THE PERIMETER FENCE.
     - 3.16.3. GROUNDING WHERE THE MV OVERHEAD LINE CROSSES OVER THE FENCE.
     - 3.16.4. GROUNDING WHERE THE FENCE IS WITHIN PROXIMITY OF THE OVERHEAD HV TRANSMISSION LINE.
     - 3.16.5. GROUNDING WHERE THE MV CONDUCTORS CROSS UNDER THE PERIMETER FENCE.
     - 3.16.6. GROUNDING OF THE PERIMETER FENCE IN PROXIMITY TO THE GENERATION EQUIPMENT (PV MODULES) AS REQUIRED BY THE GROUNDING ANALYSIS IN ORDER TO MEET IEEE STD 80.
   - 3.17. CONCRETE
     - 3.17.1. GATE AND CORNER POSTS
     - 3.17.2. CONCRETE USED FOR GATE POSTS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000PSI. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO STARTING WORK FOR APPROVAL.
     - 3.17.3. CONCRETE SUPPLY COMPANY SHALL PROVIDE PLANT CERTIFICATION FOR MIX DESIGN ALONG WITH PLANT COLLECTED STRENGTH SAMPLING TO VERIFY STRENGTH.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE PENNINGTON COUNTY SOUTH DAKOTA STORMWATER MANAGEMENT AND WATER QUALITY MANUAL, AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) 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 14 DAYS OF INACTIVITY. TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED PER THE PROJECT SWPPP.
3. DECOMPACTION OF ANY AREAS WITHIN THE PROJECT SITE TO BE RESTORED SHALL BE DECOMPACTED TO A MINIMUM DEPTH OF 12" BELOW GRADE. ALL RESTORATION SHALL MEET REQUIREMENTS OF PROJECT SWPPP FOR SOIL DECOMPACTION.
4. SEED AND FERTILIZER
   - a. PROVIDE AND USE SEEDS IN ACCORDANCE WITH THE STATE OF SOUTH DAKOTA SEED LAW, THE FEDERAL SEED ACT AND SOUTH DAKOTA NRCS STANDARDS PER THE VEGETATION MANAGEMENT PLAN DATED APRIL 3, 2020. PURCHASE SEEDS THROUGH A DEALER LICENSED WITH THE SOUTH DAKOTA DEPARTMENT OF AGRICULTURE. PROVIDE AND USE FERTILIZER IN ACCORDANCE WITH THE SOUTH DAKOTA FERTILIZER LAWS, SEED SUPPLIER'S REGIONAL RECOMMENDATIONS AND VEGETATION MANAGEMENT PLAN.
   - b. SEED MIX AND FERTILIZER APPLICATION RATE SHALL BE PROVIDED TO OWNER FOR REVIEW AND APPROVAL PRIOR TO APPLICATION. REFER TO TABLE 3, VEGETATION MANAGEMENT PLAN, AND PROJECT SWPPP, IN THESE GENERAL NOTES FOR APPROVED SEED MIX DESIGNS.
   - c. REPRESENTATIVE SOIL SAMPLES SHALL BE TAKEN AND ANALYZED FOR PROPER SOIL AMENDMENTS PRIOR TO SEED APPLICATION.
   - d. ALL WATER USED ON THE PROJECT SHALL BE FREE OF ANY SUBSTANCES HARMFUL TO PLANT GERMINATION AND GROWTH OR TO THE ENVIRONMENT IN GENERAL.
   - e. APPLY SEED MIX IN FOLLOWING MANNER:
     - e.a. PLANT ONLY TEMPORARY AND PERMANENT SEED MIXES APPROVED BY OWNER AS PROVIDED IN THE VEGETATION MANAGEMENT PLAN.
     - 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 AS SPECIFIED IN THE VEGETATION MANAGEMENT PLAN.
     - 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, 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.
   - f. STRAW MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING HAS BEEN COMPLETED WITH A MECHANICAL SPREADER AT A RATE NOT LESS THAN ONE AND ONE-HALF (1-1/2) TONS PER ACRE, AND NOT MORE THAN TWO (2) TONS PER ACRE, AT CONTRACTOR'S DISCRETION.
   - g. VEGETATIVE COVER SHOULD BE 70% ESTABLISHED PRIOR TO CONSTRUCTION, WITH 95% COVERAGE IN A 36 MONTH PERIOD. SEE COUNTY, STATE AND VEGETATION MANAGEMENT PLAN FOR REFERENCE.
5. TACKIFIERS FOR DUST CONTROL AND SOIL STABILITY
   - a. WATER WILL BE THE PRIMARY DUST CONTROL METHOD.
   - b. CHEMICAL TREATMENT SUCH AS MAGNESIUM CHLORIDE OR POLYACRYLAMIDES (PAM) MAY BE USED ON SITE FOR DUST CONTROL AND TO PROMOTE STABILITY AND ADHESION/SETTLING OF FINE PARTICLE SOILS. ONLY USE CHEMICALS APPROVED BY THE STATE; ONLY THE ANIONIC FORM OF PAM MAY BE USED.
     - i. APPLICATIONS MAY INCLUDE PASSIVE USE WITHIN STAGING AREAS, AFTER MASS GRADING AND BEFORE APPLYING STRAW MULCH.
     - ii. REPEAT APPLICATION AS NEEDED TO DECREASE TURBIDITY AND ACHIEVE SOIL STABILITY AND/OR DEPOSITION BUT DO NOT EXCEED SPECIFIED CONCENTRATIONS AS HIGHER CONCENTRATIONS DO NOT PROVIDE ADDITIONAL EFFECTIVENESS.
   - c. USE A 50-FOOT MINIMUM SETBACK FROM WETLANDS AND STREAMS FOR APPLICATION
   - d. NEVER ADD WATER TO PAM; ADD PAM SLOWLY TO WATER TO AVOID CLUMPING.
   - e. FOLLOW STATE AND MANUFACTURER'S GUIDANCE.
   - f. TACKIFIERS ARE NOT INTENDED FOR USE IN CONCENTRATED FLOW LOCATIONS, DITCHES AND CHANNELS. USE RECOMMENDED FLOCCULANTS FOR CHEMICAL TREATMENT WITHIN CONCENTRATED FLOW LOCATIONS.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

1. A SUITABLE SWPPP DOCUMENT SHALL BE DEVELOPED ALONG WITH THE CONSTRUCTION DOCUMENTS OF THIS PROJECT.
2. THE CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT PRACTICES (BMPs) AS OUTLINED IN THE SWPPP DOCUMENT .
3. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE SWPPP DOCUMENT AND GUIDELINES. 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.
4. THE CONTRACTOR SHALL PERFORM RESTORATION AND/OR SEEDING TO AREAS TEMPORARILY DISTURBED BY CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT AS REQUIRED BY THE PROJECT SWPPP.
5. NON-STORM WATER POLLUTANTS SUCH AS CONCRETE, FLY ASH, LIME, ETC. AND/OR OTHER MATERIAL S SHALL BE CONTAINED ON-SITE AND DISPOSED OF PROPERLY PER THE REQUIREMENTS OF THE PROJECT SWPPP.
6. 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 SURFACE WATERS, WATER OF THE UNITED STATES, AND DEFINED DRAINAGE CHANNELS WHEN FEASIBLE.
7. 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.
8. TEMPORARY SEDIMENT BASIN(S) SHALL BE CONSTRUCTED DOWNSTREAM OF MAJOR GRADING AREAS TO FILTER SEDIMENT AS SHOWN IN THE PLANS AND AS NEEDED PER THE SWPPP DOCUMENT.

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

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NSRS 2011 South Dakota State Planes, South Zone, US Foot

CONSTRUCTION NOTES

DRAWING NUMBER: WSS-C-500-02
REVISION: 0

TABLE 1: TESTING SCHEDULE SUMMARY

MATERIAL	TEST REQUIRED	FREQUENCY
STRUCTURAL FILL**	>1' ASTM D6913:GRAIN SIZE ANALYSIS; ASTM B698 :PROCTOR DENSITY; ASTM B2216 : MOISTURE CONTENT AND ASTM D4318 ATTERBERG'S ON FINES	1 TEST PER 2500 SQ. FT.
COMPACTED SUBGRADE	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	1 PER THE FIRST 5,000 LF OF EACH ROAD *
AGGREGATE BASE	PROOF-ROLL	ENTIRE LENGTH***
	SIEVE ANALYSIS	1 PER AGGREGATE SOURCE OR EVERY 4,000 CY
	ATTERBERG'S ON FINES (ASTM D4318)	
	MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	
MISCELLANEOUS FILL**	>1' MOISTURE DENSITY (NUCLEAR) (ASTM D6938)	EVERY 12" OF MATERIAL PLACED (1 LIFT=12")**
TRENCH BACKFILL	MOISTURE DENSITY (NUCLEAR) (ASTM D698)	OVER LOAD-BEARING CROSSINGS: 1 PER 500 LF OF TRENCH
		REMAINING LENGTHS: 1 PER 5,000 LF OF TRENCH

NOTES: *IF ALL TESTS PASS IN FIRST 5,000 FT, PROOF ROLL ONLY IS ACCEPTABLE FOR REMAINING ROAD LENGTHS WITHIN THE SAME SOIL ZONE AS DEFINED BY GEOTECHNICAL ENGINEER.
** TESTING METHODS FOR MISCELLANEOUS AND STRUCTURAL FILL LESS THAN 1' CAN BE TESTED BY A PROOF ROLL TEST.
*** IF PROOF ROLL NOT FEASIBLE, RUTTING MUST BE NO MORE THAN 1" AND NO VISIBLE PUMPING.

TESTING

DEFINITIONS

1. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY. ALL TESTING SHALL COMPLY WITH REQUIRED STANDARDS IN OWNER'S SPECIFICATIONS (SECTION 31.23.00)
2. SUBMIT TESTING AND INSPECTION REPORTS TO EOR.
   a. ENGINEER SHALL REVIEW THE TESTING REPORTS TO CHECK CONFORMANCE WITH DRAWINGS AND SPECIFICATIONS.
4. SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136.
5. MOISTURE CONTENT SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D2216.
6. PROCTORS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D698.
7. ATTERBERG LIMITS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D4318.
8. MOISTURE DENSITY (NUCLEAR) SHALL BE IN ACCORDANCE WITH ASTM D2922.
9. DYNAMIC CONE PENETROMETER (DCP) TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D 6951.

REQUIREMENTS

- PLEASE REFER TO TABLE 1 AND 2 FOR THE TESTING FREQUENCIES AND PASSING CRITERIA.

TABLE 2: COMPACTION AND MOISTURE CONTENT REQUIREMENTS

MATERIAL TYPE AND LOCATION	MIN. COMPACTION REQUIREMENT (%) (ASTM D698)	RANGE OF MOISTURE CONTENTS FOR COMPACTION (% ABOVE OPTIMUM)	
		MINIMUM	MAXIMUM
STRUCTURAL FILL	98% (BELOW FOUNDATIONS), 95% (ABOVE FOUNDATIONS)	LOW PL=-2%, HIGH PL=-2%, GRANULAR = -3%	LOW PL=3%, HIGH PL=4%, GRANULAR = 3%
GENERAL FILL	92	-3%	3%
SUBGRADE (ROAD AND BENEATH EQUIPMENT PADS, NATIVE)	95	-3%	+3%
SUBGRADE (ROAD AND BENEATH EQUIPMENT PADS, IMPORTED)	95	-3%	+3%
AGGREGATE BASE	95	-3%*	+3%*
TRENCH BACKFILL	OVER LOAD-BEARING CROSSINGS: 95 REMAINING LENGTHS: 85	-3%	+3%

NOTE: * DENSITY FOR AGGREGATE BASE MUST BE MET, AND NO WASH OUT, RUTTING, OR BLOW OUTS FOR ALL AREAS NOT MEETING MOISTURE REQUIREMENTS.

NOTE: ANY FILL <1.5' WOULD BE CONSIDERED GENERAL/MISCELLANEOUS FILL AND FOLLOW MISCELLANEOUS FILL REQUIREMENTS. ANY FILL >1.5' WILL HAVE TO BE TREATED AS STRUCTURAL FILL AND MUST MEET AND FOLLOW STRUCTURAL FILL REQUIREMENTS.

PV PLANT CONSTRAINTS

Wild Springs Solar Project - 128 MW

General Setbacks	Buffer (FT)	Description	File Name (from Client)	Comments
Property line (Exterior) or Section Line	63	Ulteig Standard - Client Provided	2020-03-06 Wild Springs CUP Plans.pdf	33' For Statutory ROW Plus Public Road Set Back
Easement line	5	Ulteig Standard		
Edge of any Public Road (Edge of Pavement)	40' min. depends on Project Boundary and R/W	Ulteig Standard		
Edge of State Highway (Edge of Pavement)	50' min. depends on Project Boundary and R/W	Ulteig Standard		
Public Roads (Right-of-Way)	100' min to PV Array (fence 20ft in front of setback)	Ulteig Standard		
Non-Participating Residence	100	Ulteig Standard	WildSprings_NearbyResidence_NoEncroachment.shp	Clarify the Distance to the Homestead
Homestead Within Boundaries	100 (No Encroachment)	Ulteig Standard -Client Provided		
Trees or Tree lines	- 100' setback-to-modules from tree-lines to the E, W and S. - 35' setback-to-modules from tree-lines to the N.	Ulteig Standard		
High Slope Areas (PV Array)	Avoid Slopes 8-15% (Where Possible) and >15% (Always)	Ulteig Standard		
Utility Setbacks	**Buffer (FT) min.**	**Description**	**File Name (from Client)**	**Comments**
Transmission Line (>69kV)	100	Ulteig Standard		
Distribution Line (<69kV)	50	Ulteig Standard		
Collection Line	75	Ulteig Standard		
Oil Pads/Wells - active	300	Ulteig Standard		
Oil Wells-plugged, non-producing/abandoned	250	Ulteig Standard		
Oil Pipelines	50	Ulteig Standard		
Gas Pads/Wells - active	300	Ulteig Standard		
Gas Wells-plugged, non-producing/abandoned	250	Ulteig Standard		
Gas Pipelines	50	Ulteig Standard		
Water Well / windmill	150	Ulteig Standard		
Waterline	50	Ulteig Standard		
Fiber optic	25	Ulteig Standard		
Railroad Easement	70	Ulteig Standard		
Wetland and Stream Setbacks	**Buffer (FT) min.**	**Source of Notes**	**File Name (from Client)**	**Comments**
Wetlands (Jurisdictional)	50	Ulteig Standard	HUB_10120111_Wetlands.shp,WS_Wetlands_Expanded_Clip.shp, ALTA Streams, Flowlines, Ponds	Determine if these are Jurisdictional-AVOID
Wetlands (Non-Jurisdictional)	25	Ulteig Standard		AVOID
Streams	25	Ulteig Standard		
Water Bodies - Ponds	10	Ulteig Standard		
Ditches	0	Ulteig Standard		
FEMA	50	Ulteig Standard	LOMR_Request_Floodplain_Boundary.shp, WildSprings_FloodPlain_FEMA.shp	AVOID
Design Storm Event Inundation Depth (1ft)	0	Ulteig Standard	WSSG_Velocity_Preliminary_170712.kmz, WSSG_Flow_Depth_Preliminary_170712.kmz	Avoid Areas with more than 1' Inundation Depth or Velocity over 5 FT/S
Cultural Areas	50	Ulteig Standard	See Below	See Below
Environmentally Sensitive Areas	50	Ulteig Standard		
Client Provided Misc	**Buffer (FT) min.**	**Source of Notes**	**File Name (from Client)**	**Comments**
Quarry's	50	Client Provided	Quarry.shp, Quarry_50ftBuffer.shp	AVOID
Prairie Dogs	25	Client Provided	WS_Pdogs.shp	AVOID
Documented Source - Tribal/Cultural Areas	50	Client Provided	Documented_Resource_50ft.shp, Documented_Resource.shp	AVOID
Structures	30	Client Provided	2020-03-06 Wild Springs CUP Plans.pdf	25' or 1.5x the Height of the Structure, Whichever is Greater

Range Land Array Mix

Scientific Name	Common Name	Oz/Acre	Lbs/Acre	% of mix by weight	Seeds/Sq Ft
Bouteloua curtipendula	Side oats grama	32.00	2.00	24.50	4.41
Bouteloua gracilis	Blue grama grass	4.00	0.25	3.10	3.67
Elymus trachycaulus	Slender wheatgrass	24.00	1.50	18.40	3.80
Koeleria macrantha	June grass	1.00	0.06	0.80	4.59
Nassella viridula	Green needlegrass	16.00	1.00	12.20	2.75
Pascopyrum smithii	Western wheatgrass	16.00	1.00	12.20	2.64
Sporobolus cryptandrus	Sand Dropseed	1.50	0.09	1.20	5.38
Schizachyrium scoparium	Little bluestem	16.00	1.00	12.20	5.51
	Graminoids	**110.50**	**6.91**	**84.50**	**32.76**
Achillea millefolium	Yarrow	0.50	0.03	0.40	2.05
Asclepias syriaca	Common mikweed	1.00	0.06	0.80	0.25
Gaillardia aristata	Blanketflower	1.00	0.06	0.08	0.25
Dalea candida	White prairie clover	1.00	0.06	0.80	0.85
Dalea purpurea	Purple prairie clover	4.00	0.25	3.10	1.74
Echinacea angustifolia	Narrow purple coneflower	1.00	0.06	0.80	0.16
Liatris punctata	Dotted blazing star	0.75	0.05	0.60	0.12
Monarda fistulosa	Wild bergamot	1.50	0.09	1.20	2.41
Penstemon grandiflorus	Large-flower Penstemon	0.50	0.03	0.40	0.21
Ratibida columnifera	Upright coneflower	2.00	0.13	1.50	1.93
Rudbeckia hirta	Black-eyed Susan	4.00	0.25	3.10	8.45
Solidago nemoralis	Old-field goldenrod	0.25	0.02	0.20	1.72
Symphyotrichum laeve	Smooth Blue Aster	0.20	0.01	0.20	0.92
Linum lewisii	Lewis Flax	1.00	0.06	0.80	0.23
Verbena stricta	Hoary vervain	1.50	0.09	1.20	0.96
Zizia aptera	Heart-leaved golden alexanders	1.00	0.06	0.80	0.28
	Forbs	**20.20**	**0.26**	**15.50**	**22.27**
	Total	**130.70**	**8.17**		**55.03**

Wet Mix

Scientific Name	Common Name	Oz/Acre	Lbs/Acre	% of mix by weight	Seeds/Sq Ft
Carex bebbii	Bebb's sedge	2.00	0.13	1.80	1.56
Carex hystericina	Bottlebrush sedge	4.00	0.25	3.70	2.75
Carex vulpinoidea	Fox sedge	2.00	0.13	1.80	4.59
Juncus dudleyi	Dudley's rush	0.06	0.00	0.10	4.41
Nassella viridula	Green needlegrass	32.00	2.00	29.30	5.51
Pascopyrum smithii	Western wheatgrass	32.00	2.00	29.30	5.28
Schizachyrium scoparium	Little bluestem	24.00	1.50	22.00	8.26
	Graminoids	**96.06**	**6.00**	**88.10**	**32.37**
Bidens cernua	Nodding bur marigold	2.50	0.16	2.30	1.21
Alisma trivale	Common Water Plantain	1.00	0.06	0.90	2.98
Lobelia siphilitica	Great Blue Lobelia	0.25	0.02	0.20	1.72
Monarda fistulosa	Wild bergamot	1.00	0.06	0.90	1.61
Symphyotrichum lanceolatum	Panicled aster	1.25	0.08	1.10	1.26
Symphyotrichum novae-angliae	New England aster	1.00	0.06	0.90	1.52
Verbena hastata	Blue vervain	1.00	0.06	0.90	2.13
izia aurea	Golden alexanders	5.00	0.31	4.60	1.26
	Forbs	**13.00**	**0.81**	**11.90**	**13.69**
	Total	**109.06**	**6.82**		**46.16**

Low-Forb Array Mix - Grazing

Scientific Name	Common Name	Oz/Acre	Lbs/Acre	% of mix by weight	Seeds/Sq Ft
Bouteloua curtipendula	Side oats grama	60.00	3.75	30.30	8.26
Boutela gracilis	Blue grama grass	8.00	0.50	4.00	7.35
Elymus trachycaulus	Slender wheatgrass	34.00	2.13	17.20	5.39
Koeleria macrantha	June grass	2.00	0.13	1.00	9.18
Nassella viridula	Green needlegrass	32.00	2.00	16.20	5.51
Pascopryum smithii	Western wheatgrass	32.00	2.00	16.20	5.28
Poa compressa	Canada bluegrass	2.00	0.13	1.00	7.17
Schizachyrium scoparium	Little bluestem	24.00	1.50	12.10	8.26
	Graminoids	**194.00**	**12.13**	**98.00**	**56.41**
Rudbeckia hirta	Black-eyed Susan	4.00	0.25	2.00	8.45
	Forbs	**4.00**	**0.25**	**2.00**	**8.45**
	Total	**198.00**	**12.38**		**64.86**

* SEED MIX DESIGN AND PLANTING DATES PER THE VEGETATION MANAGEMENT PLAN FOR FOR WILD SPRINGS SOLAR DATED APRIL 3, 2020.

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/14/2024	RECORD DRAWINGS	BMB
2	02/16/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

NSRS 2011 South Dakota State Planes, South Zone, US Foot

Ulteig
We listen. We solve.™
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

CONSTRUCTION NOTES

DRAWING NUMBER: WSS-C-500-03
REVISION: 2

CIVIL BASIS OF DESIGN				
Wild Springs Solar Project - 128 MW				
PV Plant Layout	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Design vehicle - component delivery	WB-67 OR 43' Fire Truck	Ulteig Standard		
Design vehicle (final) - maintenance	Maintenance Truck	Ulteig Standard		
Primary Access	Used Main Roads	Ulteig Standard		
Internal Roads	Use existing roads as much as possible and upgrade surface	Ulteig Standard		
Temporary Road X-Section	6": aggregate base thickness over exposed subgrade designed using 3.0-4.0% CBR value & estimate of ESAL counts	Updated based on Georeport	20205110 GER (7-25-22).pdf	A design CBR of 3.0-4.0% is recommended for the access road design. A separation geotextile or geogrid is recommended between subgrade and aggregate surface due to high plasticity clay soils present at site. Base Materials will be SDDOT Type 5 or 6 Subbase Course Aggregate compacted to 95%.
Permanent Road X-Section	6": aggregate base thickness designed using 3.0-4.0% CBR value & estimate of ESAL counts. Subgrade Prep: Scarify 12" min. as needed to compact and meet compaction.	Updated based on Georeport	20205110 GER (7-25-22).pdf	A design CBR of 3.0-4.0% is recommended for the access road design. A separation geotextile is recommended between subgrade and aggregate surface due to high plasticity clay soils present at site. Base Materials will be SDDOT Type 5 or 6 Subbase Course Aggregate compacted to 95%. Roads will be repaired and maintained throughout the end of construction. A 2" Cap will be placed on all locations necesesary after and during construction if additional material is needed.
Horizontal curve centerline radius	58'R for 16' Roads, 60'R for 20'	Ulteig Standard		
Road profile	K-value for sag/crest curve per WB-67 or 43' Fire Truck component vehicle specs.	Ulteig Standard		
Access Roads proposed width	16	Ulteig Standard		Will use 16 for PV array roads. 20' for access roads going to the substation and O&M
Inner radius - component vehicle	50' min.	Ulteig Standard		
Inner radius - maintenance vehicle	40' (30' min.)	ICC International Fire Code, Appx. D 2012		
Turnarounds - 120' hammerhead	with 35' radius typ.	ICC International Fire Code, Appx. D 2012		
Turnarounds - Alternative to 120' hammerhead	with 70' leg & 35' radius typ.	ICC International Fire Code, Appx. D 2012		
Row to Row Spacing	19.9412' per PV design layout	Per Design		12' Glass to Glass, 6 Modules per string
Modules to Fence	20' min.	Ulteig Standard		
Access Road Offset to Fence	5' min.	Ulteig Standard		
Access Road Offset to Module	3.75' min.	Ulteig Standard		
Fence Design	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Property to Fence Offset	10'	Ulteig Standard		
Perimeter	6' height chain-link with 3-strand barbwire	Ulteig Standard		
Internal	6' height chain-link	Ulteig Standard		
Gate type	Sliding Gate	Ulteig Standard		
Gate width	20' min.	Ulteig Standard		Use a 20ft gate for 16ft roads and a 24ft gate for 20ft roads
Posts	Gates and Corner Braces per manufacture	Ulteig Standard		
Grading Design	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Excavation & Embankment	Shall meet the provisions provided in the geotechnical report.	Updated based on Georeport	20205110 GER (7-25-22).pdf	
Maximum Slope - Outside Array	Foreslopes & Backslopes shall be no greater than 4H:1V	Ulteig Standard		NextTracker was to be used per Meeting
Maximum Slope - Inside Array	NexTracker: South Facing Trackers: 15% max North Facing Trackers: 8.7% max	NexTracker Horizon		PDM-000031 Site Slope and Grading Guidelines Rev_E.pdf
Tracker Tolerance	44" - 60" (+/- 8")	NexTracker Horizon		Confirmed with Ames on Topography buffer to eliminate pile tolerance issues
Flooded Areas	Avoid areas of greater than 24" stormwater inundation depths where possible, and raise/adjust layout as necessary to optimize layout.	Ulteig Standard/Ames/NGR	Email	12" of clearance for all cristical equipment and 4" of clearance from module edge when at maximum tilt, based on the 100-yr, 24-hr rain event post-grading.
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.		During construcion conditions, higher runoff and erosion rates can be expected than the fully vegetated final condition or existing condition. To mitigate this temporary construction sedimentation basins will be necessary where greater than 10 acres of disturbed area discharges to a common point or 5 acres when within 1 mile of impaired or special waters. Since greater than 10 acres of disturbed area discharges to a common point, temporary sediment basins will be necessary on site. This will maintain compliance with the South Dakota NPDES permit. Also, using temporary seed/mulch at the onset of construction can greatly reduce the amount of erosion and rework on the solar sites.
Internal Drainage	Maintain agricultural ditches where feasible; reroute with proposed ditches to optimize layout and constructability	Ulteig Standard		
Freeboard	12-inches above preliminary drainage inundation depths for all critical equipment and 4" of clearanace from module edge when at maximum tilt, based on the 100-yr, 24-hr rain event post-grading.	National Grid Renewables		Indundation depths for freeboard requirement based on 100-yr rain event and confirm this requirement is met. Hydro Study Report - 22.11742_Report_60percent_Final.pdf
Box or pipe culvert structures	Size for 5-yr, 24-hr storm event	Ulteig Standard		Hydro Study Report - 22.11742_Report_60percent_Final.pdf
Structure armoring	Withstand 25-yr, 24-hr storm event w/o failure	Ulteig Standard		Hydro Study Report - 22.11742_Report_60percent_Final.pdf
Silt Fence	Access roads: 5' min. offset PV Array: 15' min. offset	Ulteig Standard		
Ground Cover	**Proposed**	**Source of Notes**	**File Name (from Client)**	**Comments**
Seeding	See Notes and Details	Ulteig Standard		
Trees (Shadowing)	70' for S,W,E and 35' N buffer Based on Direction	Ulteig Standard		

WILD SPRINGS
SOLAR PROJECT
PENNINGTON COUNTY,
SOUTH DAKOTA

Rev.	Date	Description	By
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PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

CONSTRUCTION NOTES

DRAWING NUMBER: WSS-C-500-04
REVISION: 0

UTILITY CROSSINGS SCHEDULE
NAD1983 SOUTH DAKOTA STATE PLANES, SOUTH ZONE, US FOOT

CROSSING ID	DESIGN FEATURE	UTILITY	NORTHING	EASTING	LATITUDE	LONGITUDE
OHP-1	Access Road	Overhead Power	647211.746	1305344.968	44.081399	-102.857458
OHP-2	MV Line	Overhead Power	647203.003	1305606.591	44.081397	-102.856461
OHP-3	MV Line	Overhead Power	647154.288	1307045.907	44.081383	-102.850981
OHP-4	MV Line	Overhead Power	644705.076	1307280.607	44.074687	-102.849806
OHP-5	MV Line	Overhead Power	644704.462	1307306.844	44.074687	-102.849706
OHP-6	Access Road	Overhead Power	641870.411	1307326.441	44.066918	-102.849305
OHP-7	MV Line	Overhead Power	641799.991	1310137.603	44.066958	-102.838606
OHP-8	MV Line	Overhead Power	641780.901	1312569.218	44.067106	-102.829356
OHP-9	MV Line	Overhead Power	641773.552	1312809.147	44.067106	-102.828443
OHP-10	MV Line	Overhead Power	641769.657	1312936.304	44.067106	-102.827959
OHP-11	MV Line	Overhead Power	641762.770	1311605.114	44.066977	-102.833020
OHP-12	MV Line	Overhead Power	641749.412	1313597.191	44.067105	-102.825443
OHP-13	MV Line	Overhead Power	641741.251	1312472.070	44.066990	-102.829721
OHP-14	MV Line	Overhead Power	641706.188	1312567.269	44.066901	-102.829355
OHP-15	MV Line	Overhead Power	641695.296	1312920.685	44.066901	-102.828010
OHP-16	MV Line	Overhead Power	641674.537	1313594.267	44.066899	-102.825446
OHP-17	Access Road	Overhead Power	640676.508	1312534.149	44.064075	-102.829363
COM-1	MV Line	Communications	641782.269	1312524.572	44.067106	-102.829526
COM-2	MV Line	Communications	641707.577	1312522.200	44.066901	-102.829526
COM-3	Access Road	Communications	640676.523	1312498.125	44.064072	-102.829500
SC-2	MV Line	Stream	648109.357	1307440.218	44.084038	-102.849630
SC-6	MV Line	Stream	648082.257	1307773.906	44.083988	-102.848352
SC-7	MV Line	Stream	644751.644	1307292.981	44.074792	-102.849753
SC-8	MV Line	Stream	644741.285	1307269.968	44.074761	-102.849839
SC-12	MV Line	Stream	644594.979	1307673.408	44.074418	-102.848299
SC-14	MV Line	Stream	644569.544	1307689.282	44.074349	-102.848231
SC-15	MV Line	Stream	644326.346	1311095.888	44.073940	-102.835243
SC-16	MV Line	Stream	644321.768	1311071.311	44.073923	-102.835336
SC-20	Proposed Fence	Stream	644274.297	1311018.417	44.073838	-102.835557
SC-22	Proposed Fence	Stream	644271.445	1308584.853	44.073606	-102.844793
SC-23	MV Line	Stream	644245.001	1308580.631	44.073533	-102.844807
SC-24	MV Line	Stream	644241.382	1308580.053	44.073523	-102.844810
SC-28	MV Line	Stream	643808.169	1310703.085	44.072521	-102.836719
SC-29	Access Road	Stream	643570.317	1308343.337	44.071664	-102.845636
SC-31	MV Line	Stream	643551.220	1308341.541	44.071611	-102.845631
SC-34	Proposed Fence	Stream	642948.816	1308217.510	44.069949	-102.846037
SC-35	Access Road	Stream	642753.649	1310346.078	44.069576	-102.837965
SC-38	MV Line	Stream	642436.871	1310362.438	44.068722	-102.837864
SC-39	Proposed Fence	Stream	642329.345	1310310.696	44.068423	-102.838046
SC-42	MV Line	Stream	641694.005	1310137.603	44.066697	-102.838595
SC-44	MV Line	Stream	641557.606	1317388.319	44.066890	-102.811066
SC-46	Proposed Fence	Stream	639633.684	1308028.103	44.060843	-102.846374
RC-2	MV Line	Existing Road	647349.428	1305606.591	44.081799	-102.856478
RC-3	MV Line	Existing Road	647300.418	1307045.907	44.081784	-102.850998
RC-4	MV Line	Existing Road	641779.807	1312604.923	44.067106	-102.829220
RC-5	MV Line	Existing Road	641751.457	1313530.432	44.067105	-102.825697
RC-6	MV Line	Existing Road	641705.098	1312602.635	44.066901	-102.829220
RC-7	MV Line	Existing Road	641676.379	1313534.483	44.066899	-102.825673

WILD SPRINGS SOLAR BILL OF MATERIALS

ITEM	DESCRIPTION	UNIT	QTY (EXACT)
ACCESS ROADS	16' SITE ACCESS ROAD - LENGTH	LF	39,292
	16' SITE ACCESS ROAD - AGGREGATE VOLUME	CY	11,642
	16' SITE ACCESS ROAD HP270 - GEOTEXTILE	SY	69,852
	20' SITE ACCESS ROAD - LENGTH	LF	3,522
	20' SITE ACCESS ROAD - AGGREGATE VOLUME	CY	1,304
	20' SITE ACCESS ROAD - HP270 GEOTEXTILE	SY	7,826
	30' SITE ACCESS ROAD - LENGTH	LF	877
	30' SITE ACCESS ROAD - AGGREGATE VOLUME	CY	488
	30' SITE ACCESS ROAD - HP270 - GEOTEXTILE	SY	2,924
DEMOLITION	GRUBBING	AC	1
	TOPSOIL STRIPPING (ACCESS ROADS ONLY)	AC	20.3
	DEMOLISH EXISTING FENCE	LF	10,478
FENCING AND GATES	FENCE - LENGTH	LF	81,878
	24' MANUAL SLIDING ACCESS GATES	EA	8
	32' MANUAL SLIDING ACCESS GATES (2-16' GATES)	EA	1
LAYDOWN YARD	LAYDOWN YARD	AC	6.4
	STAGING AREAS	AC	22.0
STOCKPILE AREAS	STOCKPILE AREAS	AC	18.8
SUBSTATION GRADING	CUT VOLUME	CY	1,526
	FILL VOLUME	CY	7,617
SITE GRADING	CUT VOLUME	CY	131,021
	FILL VOLUME	CY	152,840
EROSION CONTROL	PERIMETER CONTROL	LF	97,124
	CONSTRUCTION ENTRANCE	EA	9
	TRIPLE STACKED FIBER ROLL SLOPE APPLICATION FOR GRADED AREAS	EA	12
	TEMPORARY SEDIMENT BASINS	EA	1
	PERMANENT SEEDING	AC	858
	LOW WATER CROSSING	SF	35,089
SITE ENTRANCE	PERMANENT SITE ENTRANCE	EA	9
CULVERTS	CULVERT	EA	7
DEMOLITION	TREE HARVESTING	AC	1.3
EROSION CONTROL	SILT FENCE - FDOT TYPE 3	LF	47,000
CULVERTS	CULVERT (18-INCH CMP)	EA	TBD
	RIPRAP EMBANKMENT/SCOUR PROTECTION	CY	TBD
SUBSTATION GRADING	CUT VOLUME	CY	TBD
	FILL VOLUME	CY	TBD
ROAD GRADING	CUT VOLUME	CY	TBD
	FILL VOLUME	CY	TBD
EROSION CONTROL	VEGETATED SWALE WITH FIBER ROLL DITCH APPLICATION	LF	TBD
	EROSION CONTROL BLANKET TYPE 2B, 2C, OR 2D FOR VEGETATED SWALE SIDE SLOPES	SY	TBD
	EROSION CONTROL BLANKET TYPE 2A FOR VEGETATED SWALE BOTTOM	SY	TBD
	18-INCH FIBER ROLL DITCH APPLICATION FOR VEGETATED SWALE	LF	TBD
	TEMPORARY SEEDING	AC	TBD
SEDIMENT BASINS	SEDIMENT BASINS	EA	TBD
	RECONSTRUCT BASIN OUTLET	EA	TBD
	TEMPORARY AND PERMANENT EXCAVATION	CY	TBD

CULVERT SIZING SCHEDULE

ENTRANCE #	CULVERT SIZE	PROPOSED SLOPE
1	30" CMP	0.60%
2	30" CMP	1.00%
3	24" CMP	1.25%
5	24" CMP	0.85%
6	30" CMP	1.00%
7	36" CMP	1.00%
9	24" CMP	0.75%

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

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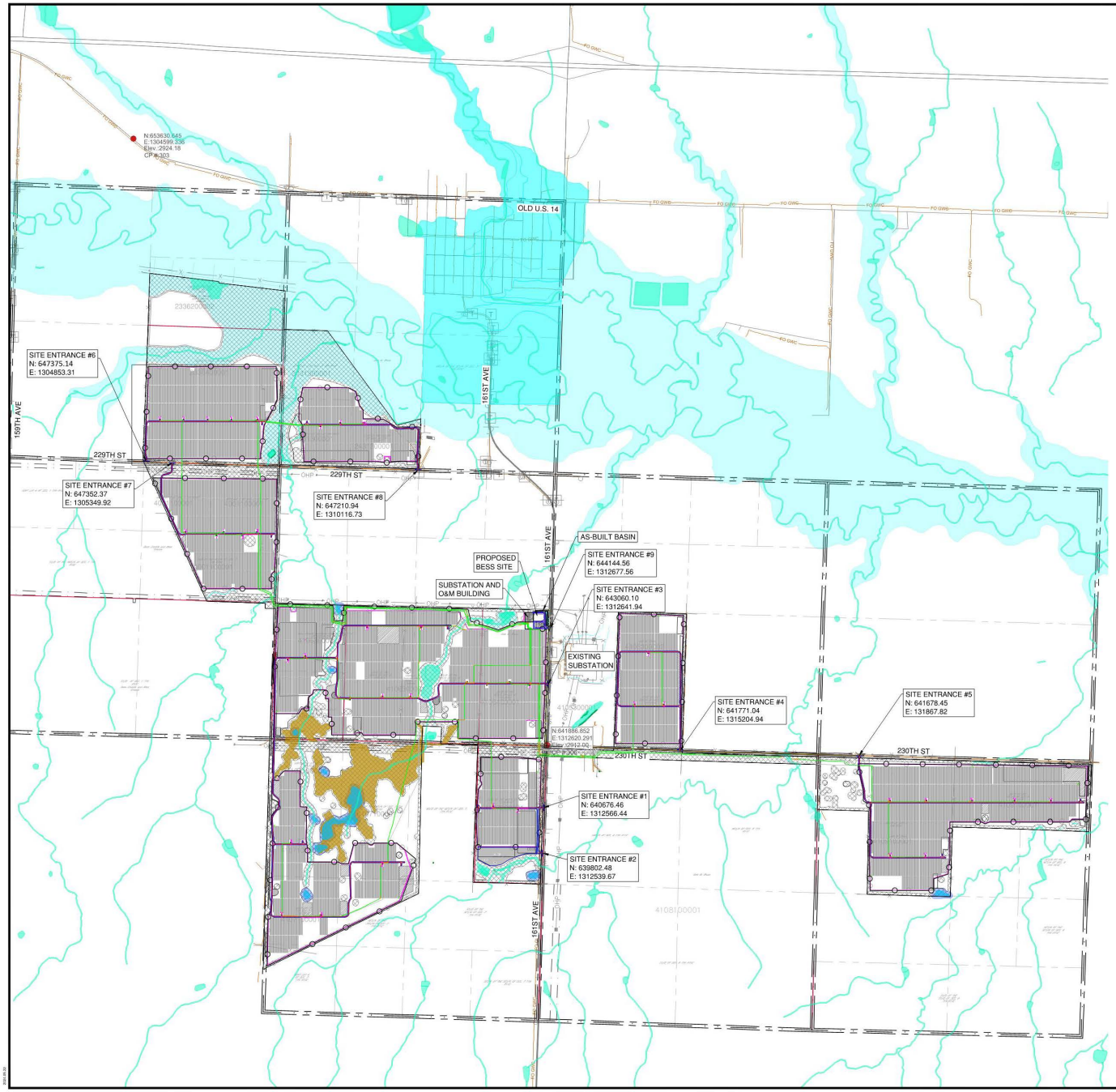
CONSTRUCTION NOTES

DRAWING NUMBER: WSS-C-500-05
REVISION: 0



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 20FT ACCESS ROAD
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
- PROPOSED OVERHEAD POWER
- PROPOSED MV COLLECTION
- PROPOSED BORE LOCATION
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING FIBER OPTIC LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING TREE LINE
- EXISTING STREAMS
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- LAYDOWN YARDS
- PROJECT FACILITIES
- NON-BUILDABLE AREA BOUNDARY
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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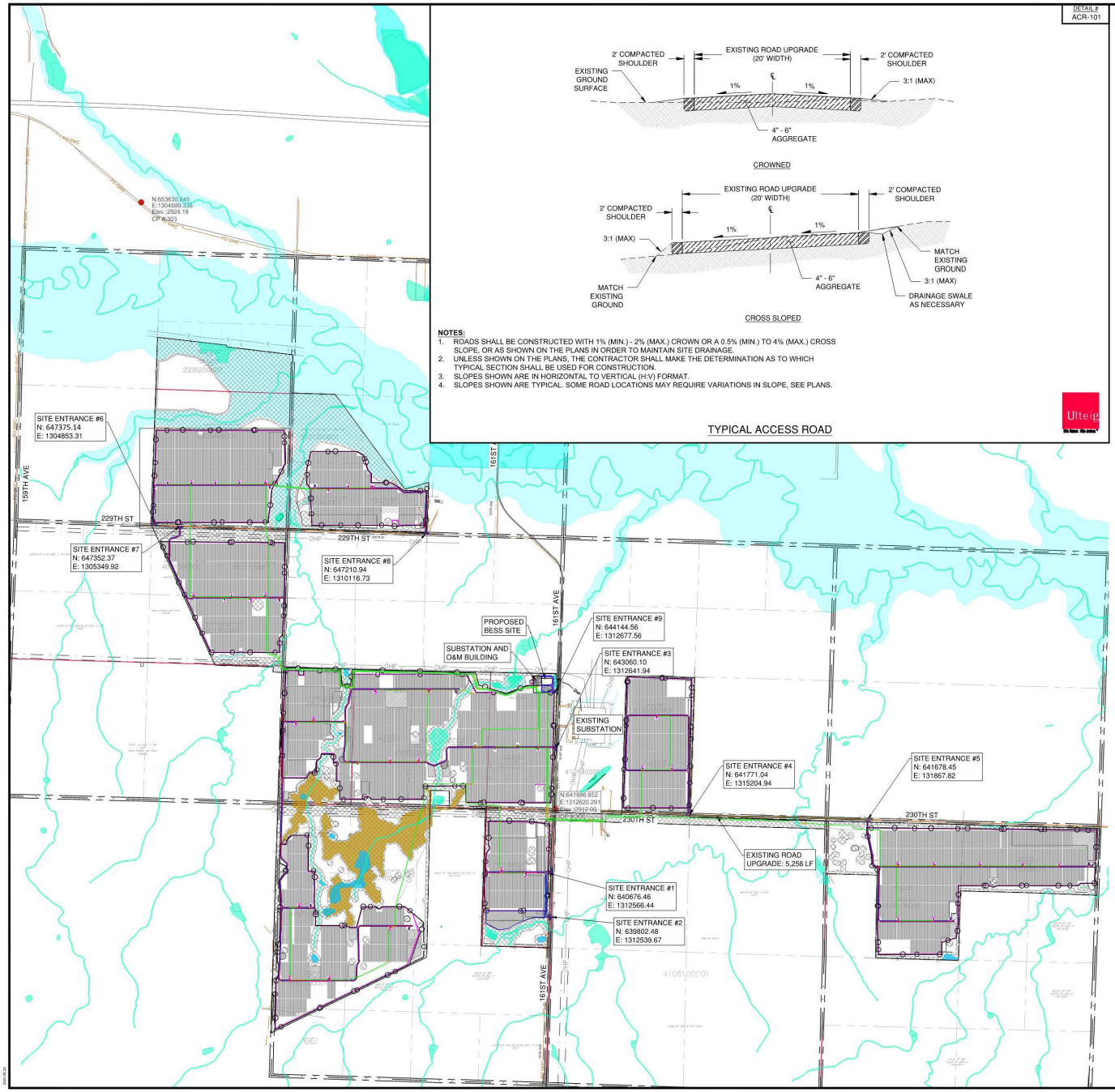
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

OVERALL SITE PLAN

DRAWING NUMBER: WSS-C-510-01

REVISION: 2



WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
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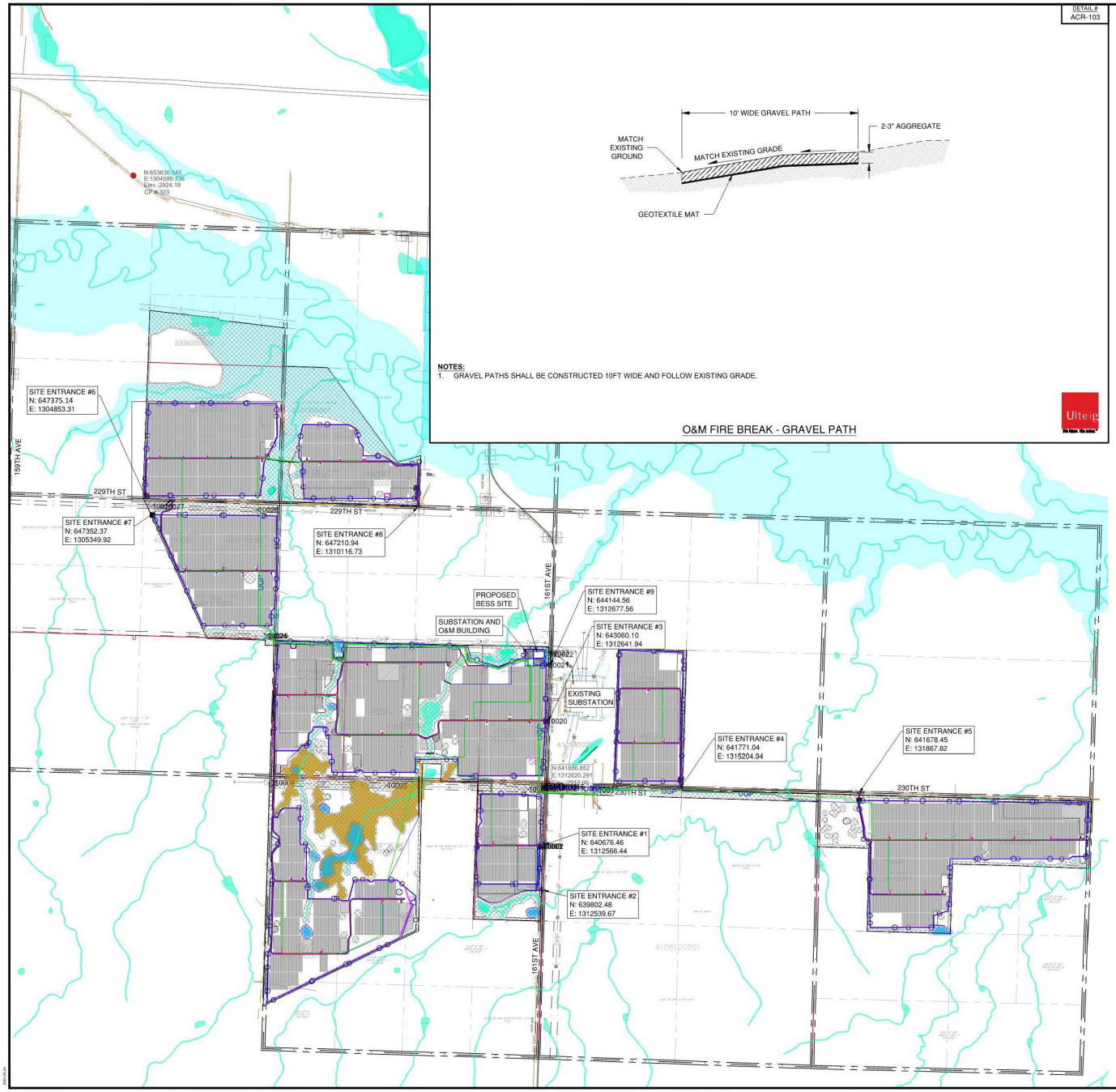
ROAD UPGRADE EXHIBIT

DRAWING NUMBER: WSS-C-510-02
REVISION: 3



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PENNINGTON COUNTY, SOUTH DAKOTA

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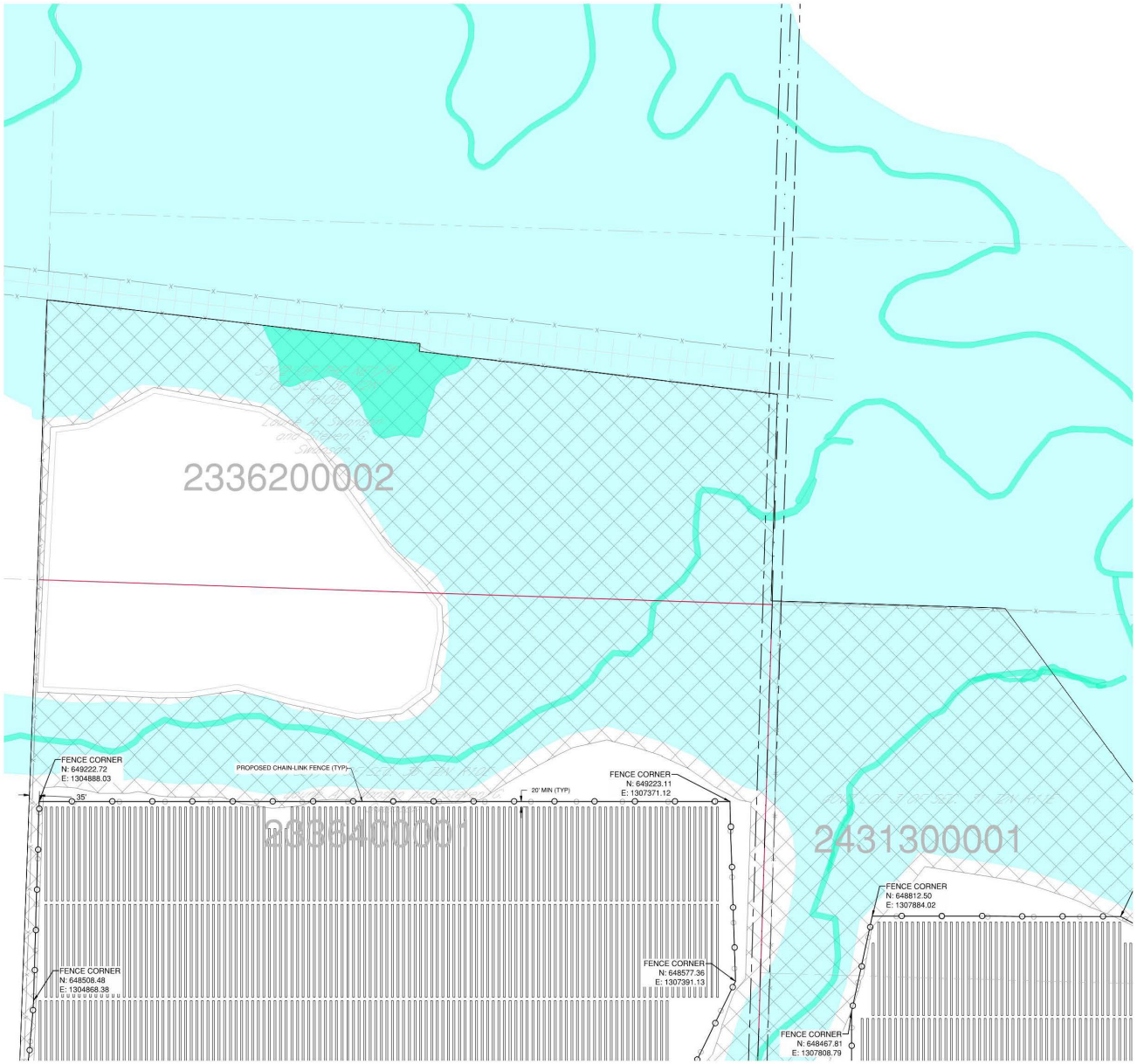
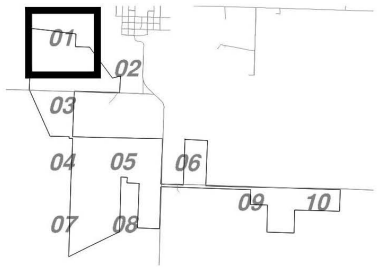
OVERALL SITE PLAN - O&M FIRE BREAK

DRAWING NUMBER: WSS-C-510-03
REVISION: 2



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
- PROPOSED OVERHEAD POWER
- PROPOSED MV COLLECTION
- BORE LOCATION
- PROPERTY LINE
- RIGHT OF WAY (ROW) LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD CENTERLINE
- EXISTING DIRT ROAD
- EXISTING EASEMENT
- EXISTING FIBER OPTIC
- EXISTING OVERHEAD POWER
- EXISTING TREE LINE
- EXISTING STREAMS
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA BOUNDARY
- PROPOSED 24' GATE
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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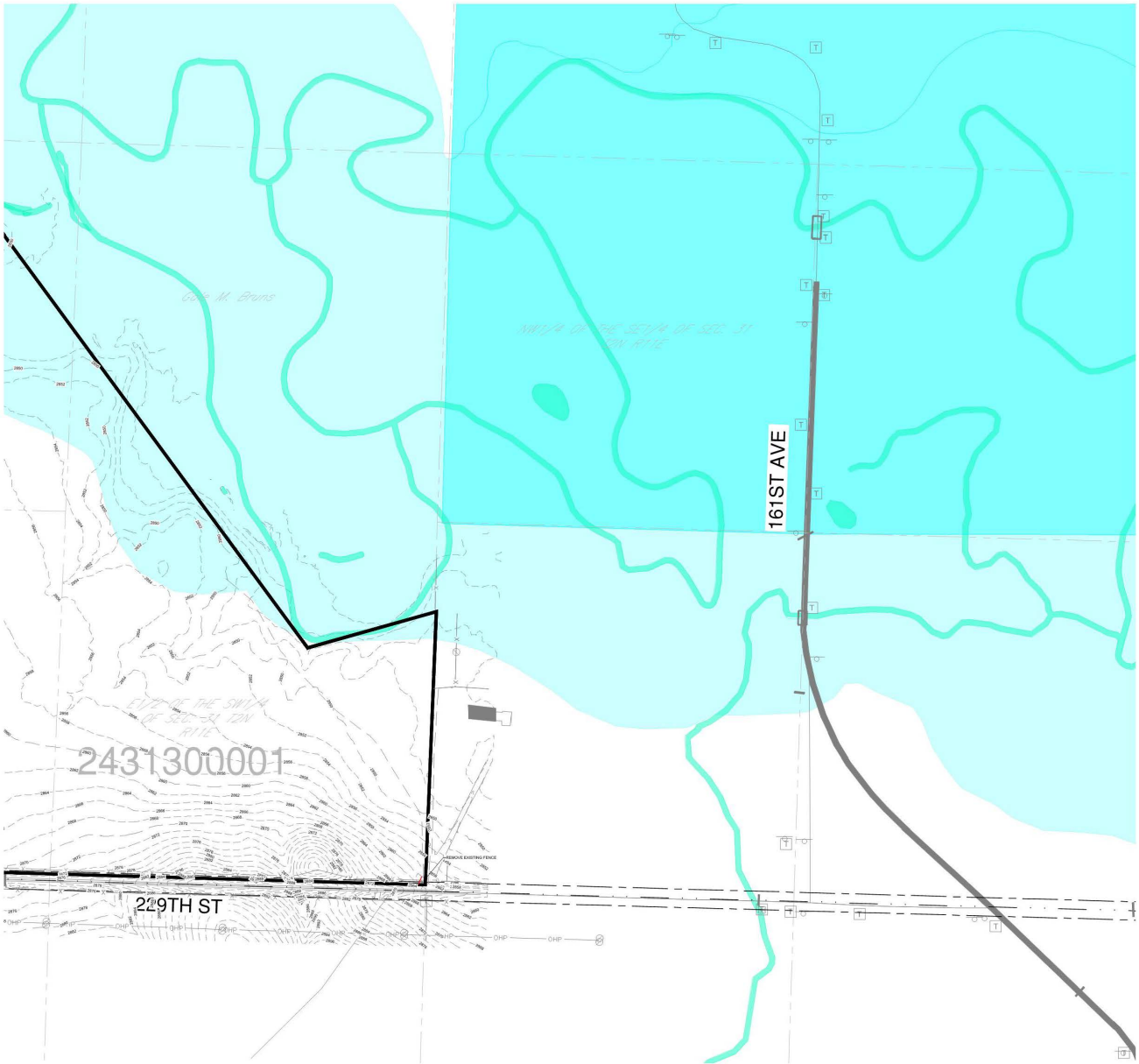
CONTACT: ULTEIG.COM

HORIZONTAL SITE PLAN 1

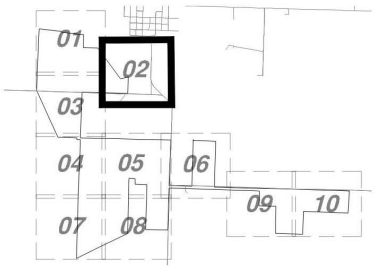
DRAWING NUMBER: WSS-C-551-02

REVISION: 3



LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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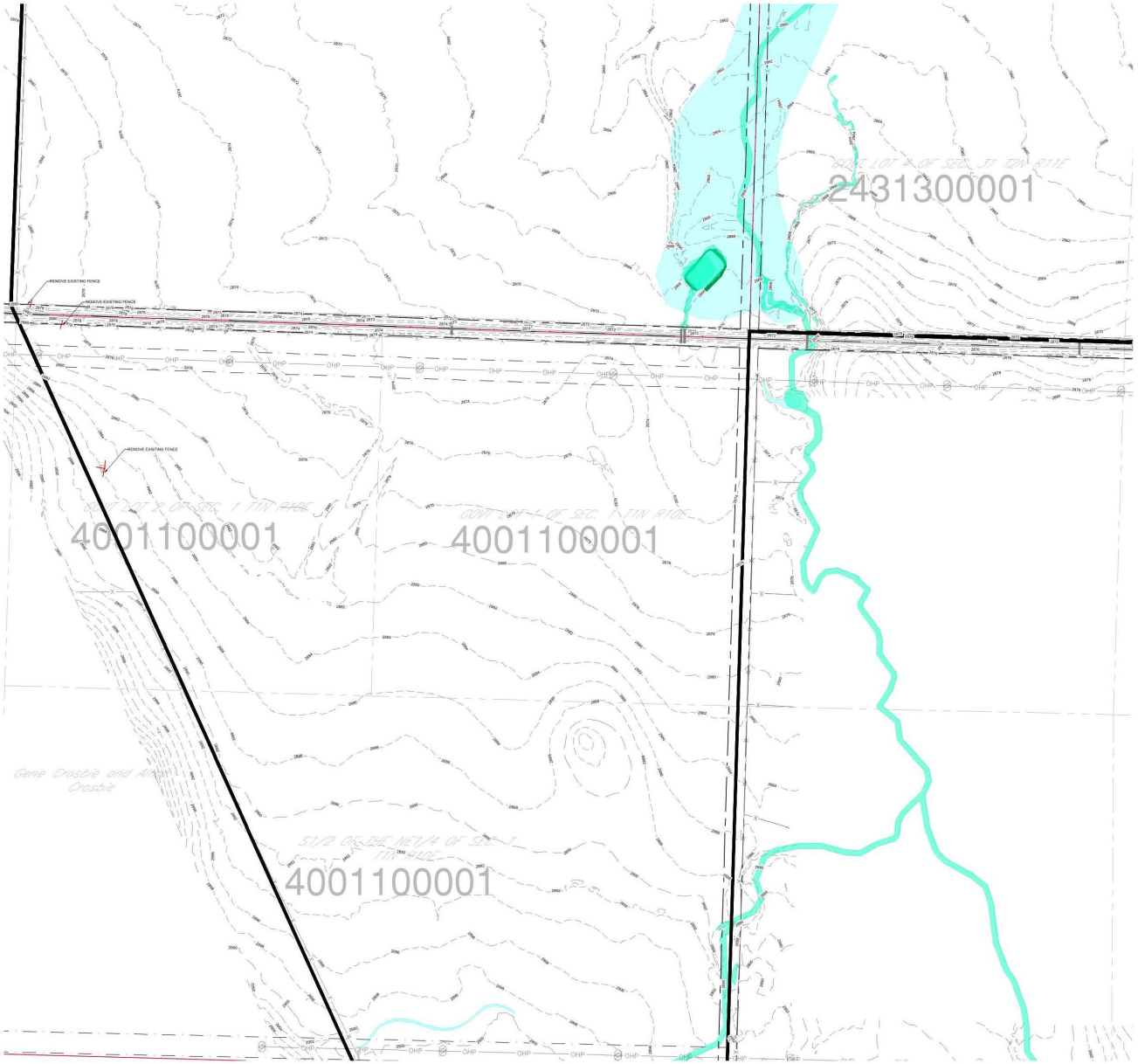
EXISTING CONDITIONS AND DEMOLITION PLAN 2

DRAWING NUMBER: WSS-C-550-02
REVISION: 1



LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
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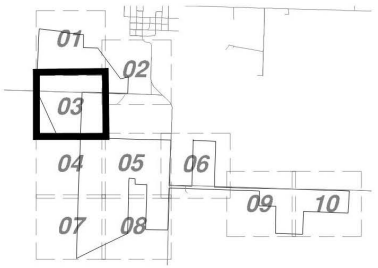
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



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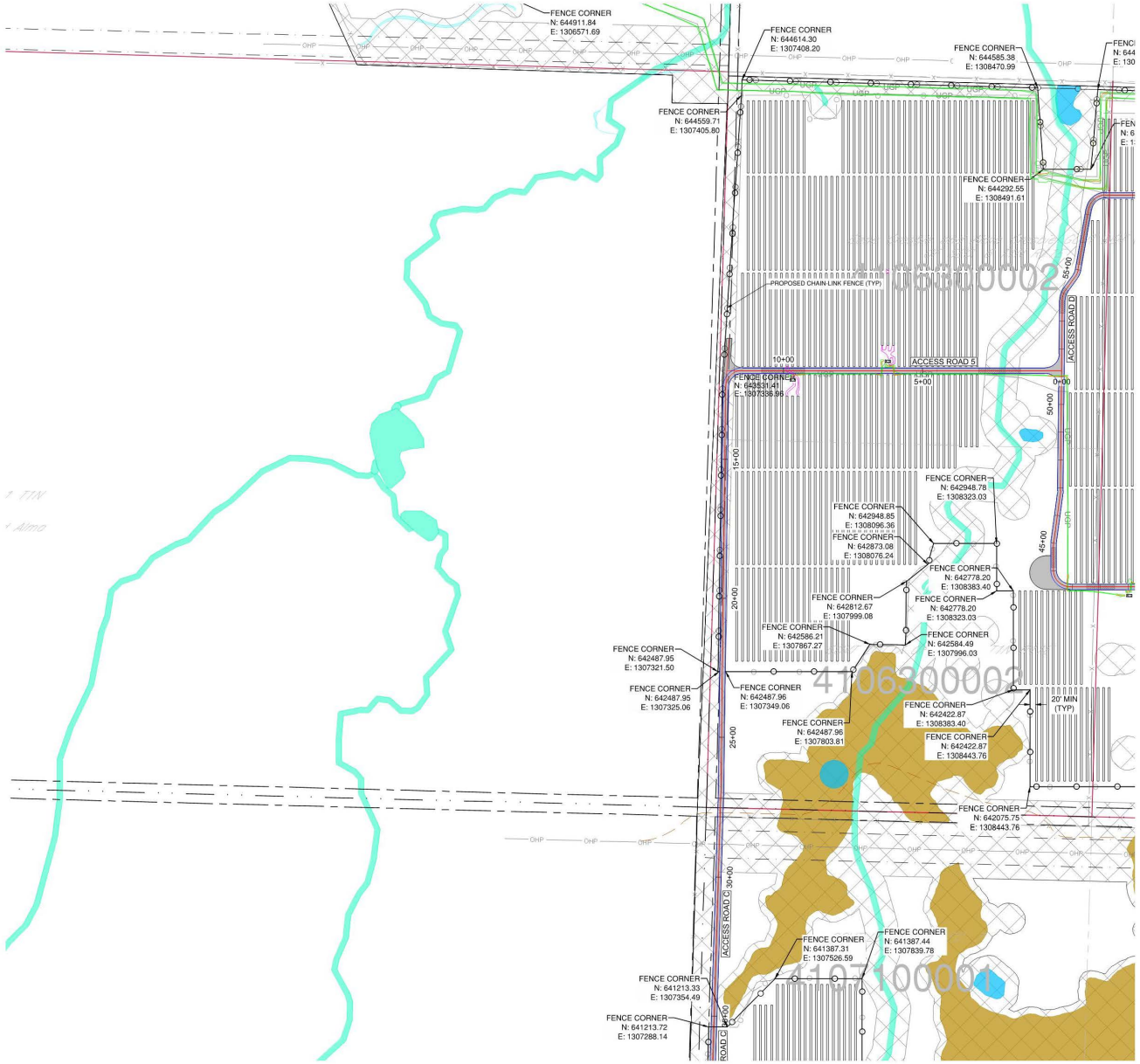
EXISTING CONDITIONS AND DEMOLITION PLAN 3

DRAWING NUMBER: WSS-C-550-03
REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
- PROPOSED OVERHEAD POWER
- PROPOSED MV COLLECTION
- BORE LOCATION
- PROPERTY LINE
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- EXISTING EASEMENT
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- EXISTING OVERHEAD POWER
- EXISTING TREE LINE
- EXISTING STREAMS
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
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- PROJECT FACILITIES
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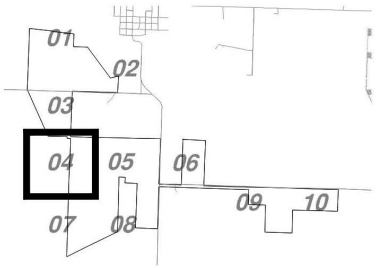
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE



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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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PROJECT NO: 22.11742
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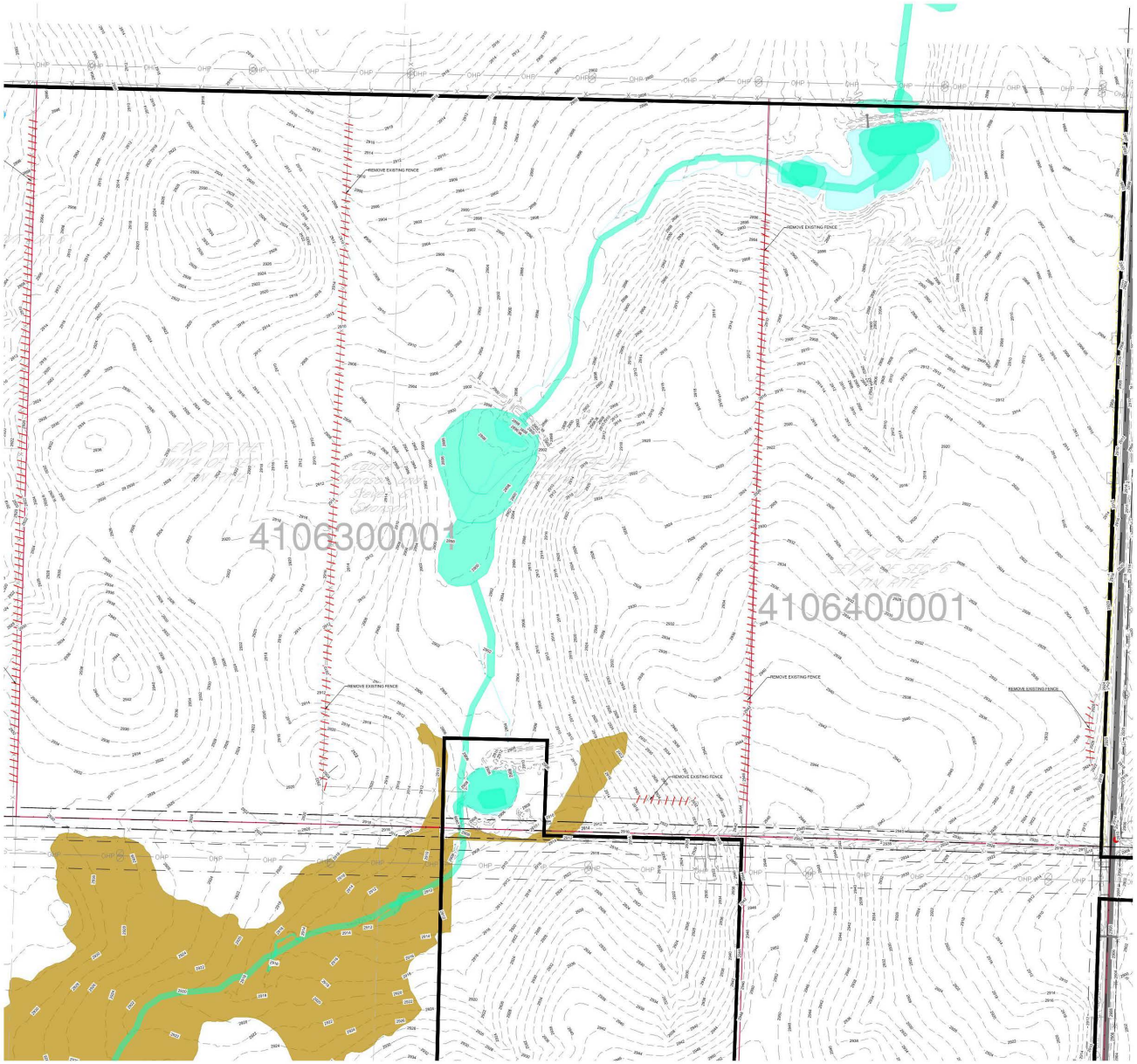
HORIZONTAL SITE PLAN 4

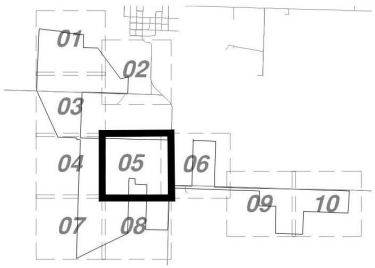
DRAWING NUMBER: WSS-C-551-05

REVISION: 3



LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



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EXISTING CONDITIONS AND DEMOLITION PLAN 5

DRAWING NUMBER: WSS-C-550-05

REVISION: 1

LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
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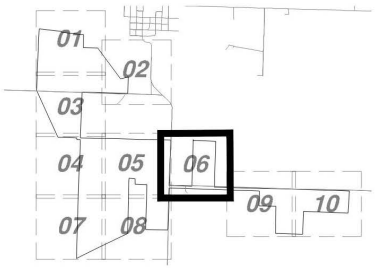
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



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PENNINGTON COUNTY, SOUTH DAKOTA

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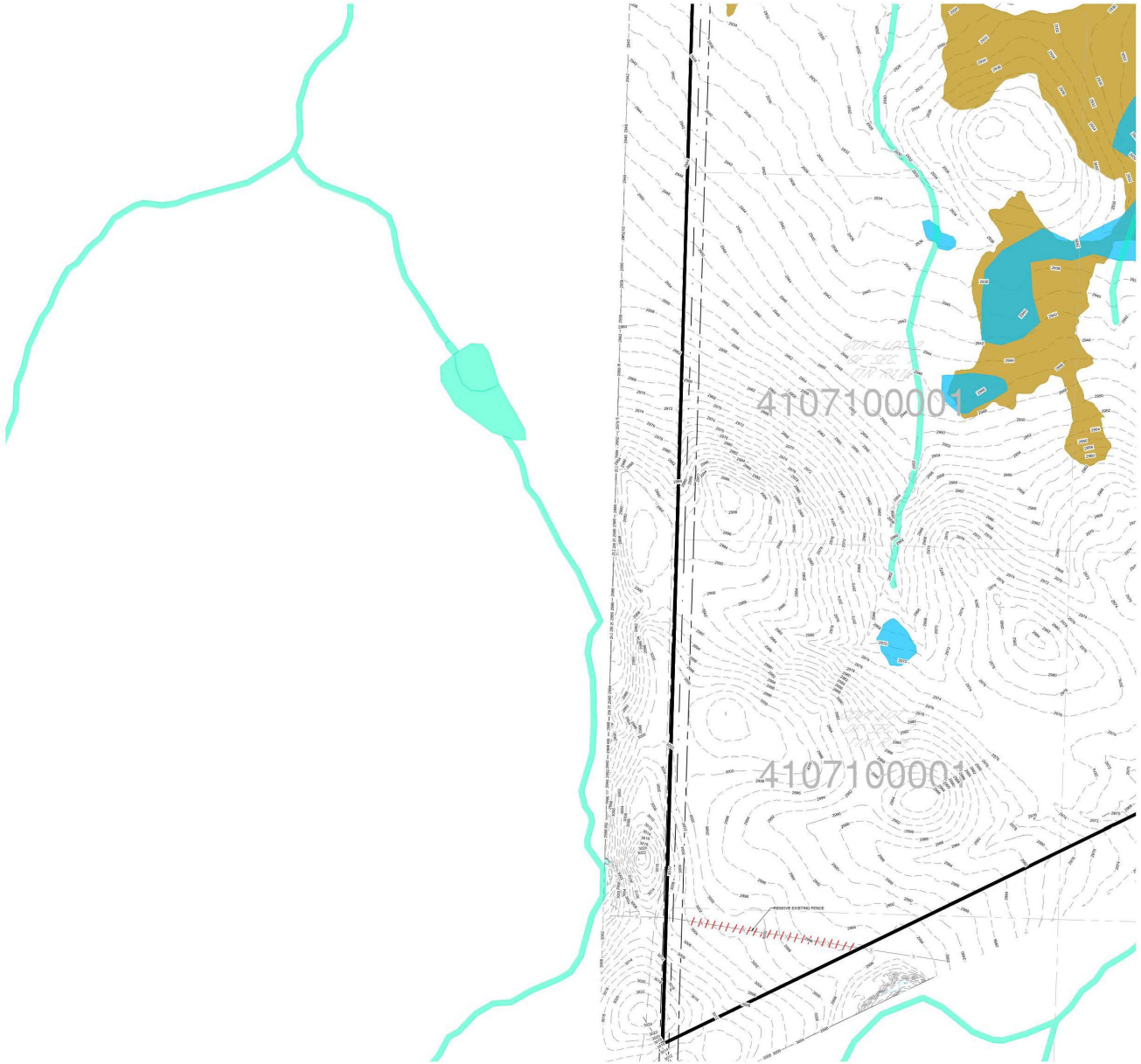
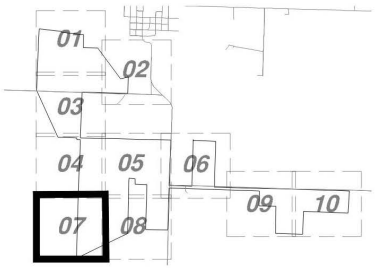
EXISTING CONDITIONS AND DEMOLITION PLAN 6

DRAWING NUMBER: WSS-C-550-06
REVISION: 1



LEGEND

- PROPOSED DEMOLITION
- 2500' EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- OHP EXISTING OVERHEAD POWER
- X EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- FO OHP EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- T EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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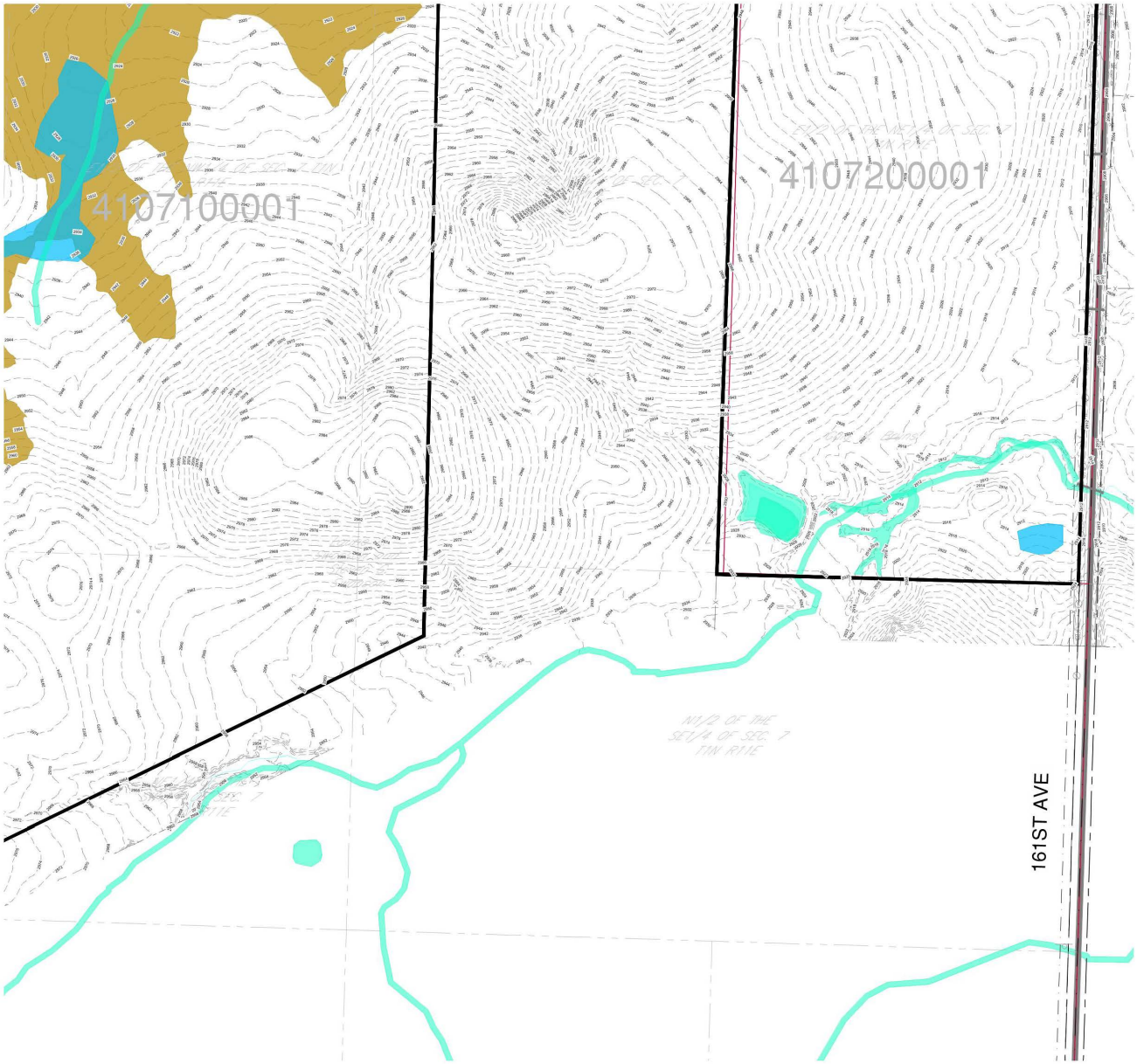
EXISTING CONDITIONS AND DEMOLITION PLAN 7

DRAWING NUMBER: WSS-C-550-07
REVISION: 1



LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
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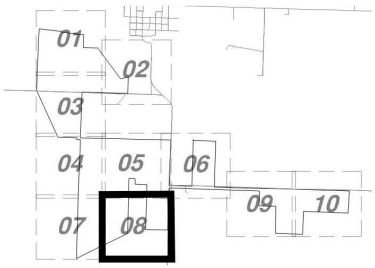
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



KEYMAP

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PENNINGTON COUNTY, SOUTH DAKOTA

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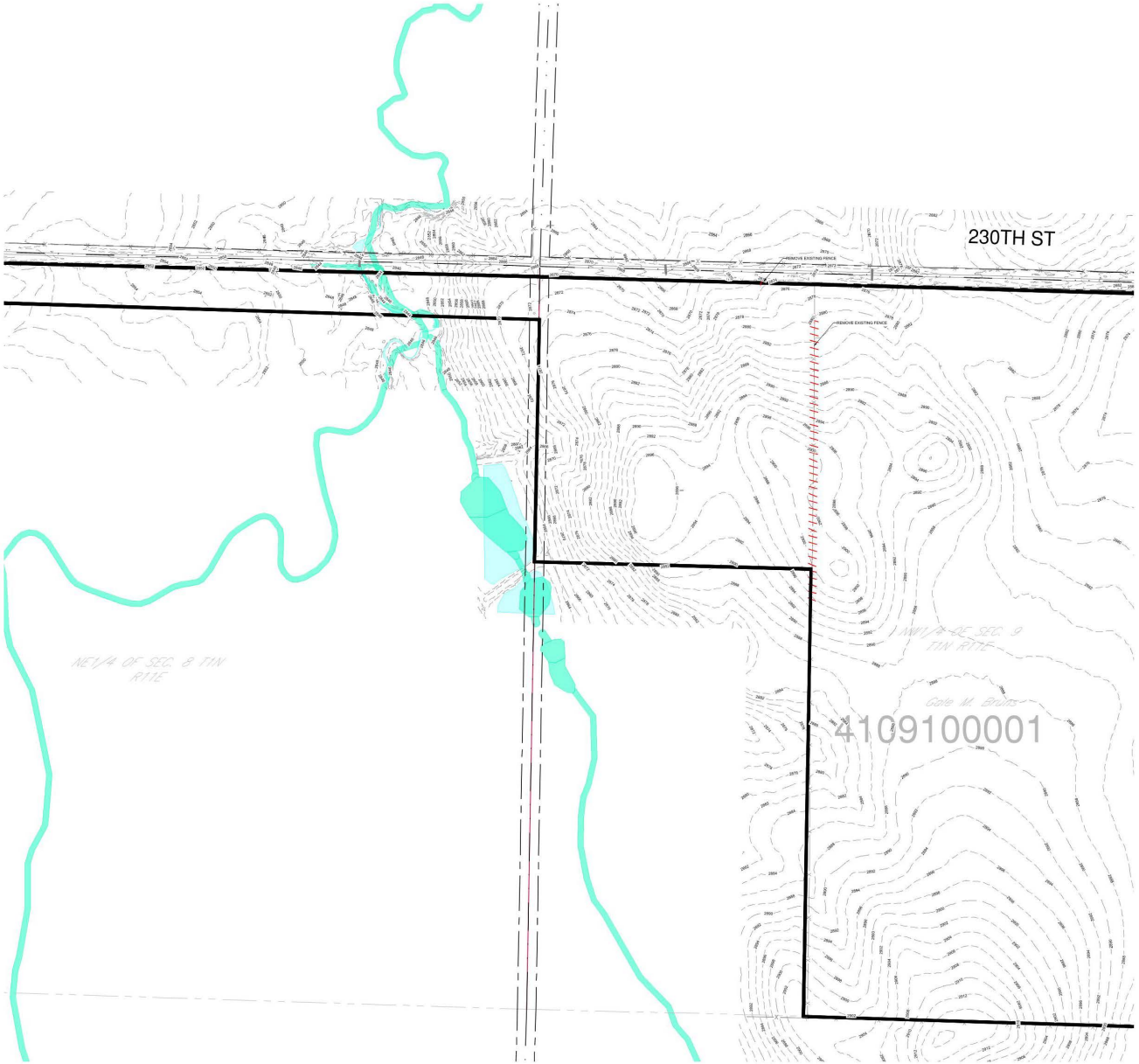
EXISTING CONDITIONS AND DEMOLITION PLAN 8

DRAWING NUMBER: WSS-C-550-08

REVISION: 1



LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
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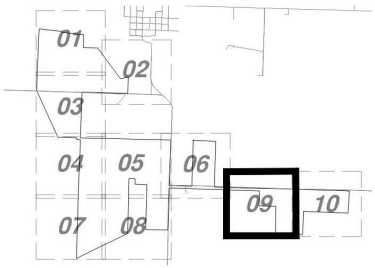

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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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1	05/24/2024	RECORD DRAWINGS	BMB

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BURNSVILLE, MN 55337

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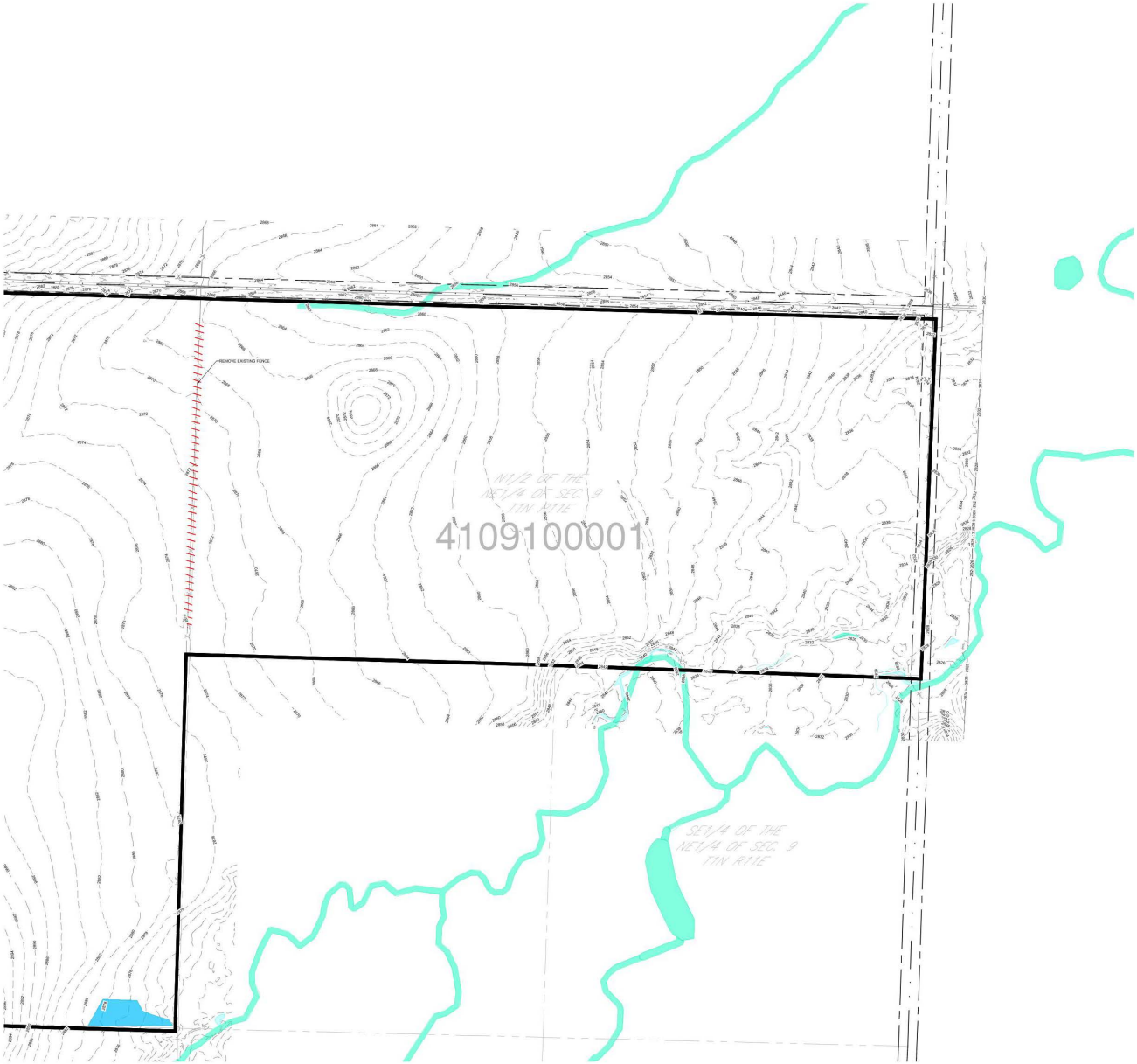
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

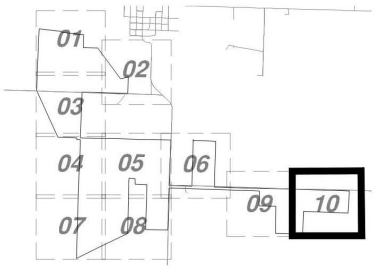
EXISTING CONDITIONS AND DEMOLITION PLAN 9

DRAWING NUMBER: WSS-C-550-09
REVISION: 1



LEGEND

- PROPOSED DEMOLITION
- 2500' EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- OHP EXISTING OVERHEAD POWER
- X EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- FO OHP EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- T EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	05/24/2024	RECORD DRAWINGS	BMB

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8400 NORMANDALE LAKE BLVD,
SUITE 1200
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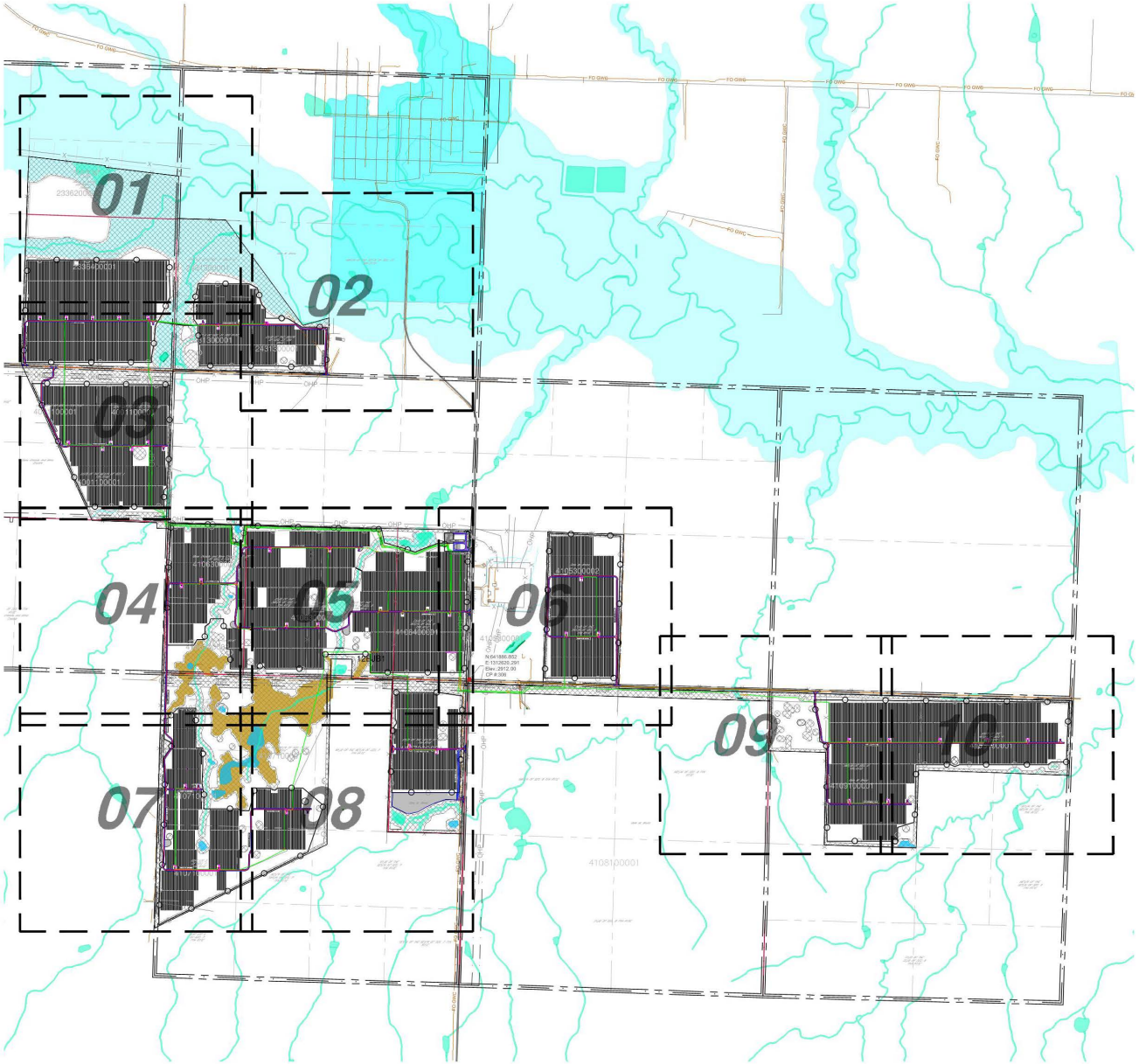
EXISTING CONDITIONS AND DEMOLITION PLAN 10

DRAWING NUMBER: WSS-C-550-10

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
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- PROJECT FACILITIES
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- PROPOSED 24' GATE
- POST CONSTRUCTION FENCE
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- POST CONSTRUCTION MV LINE
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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
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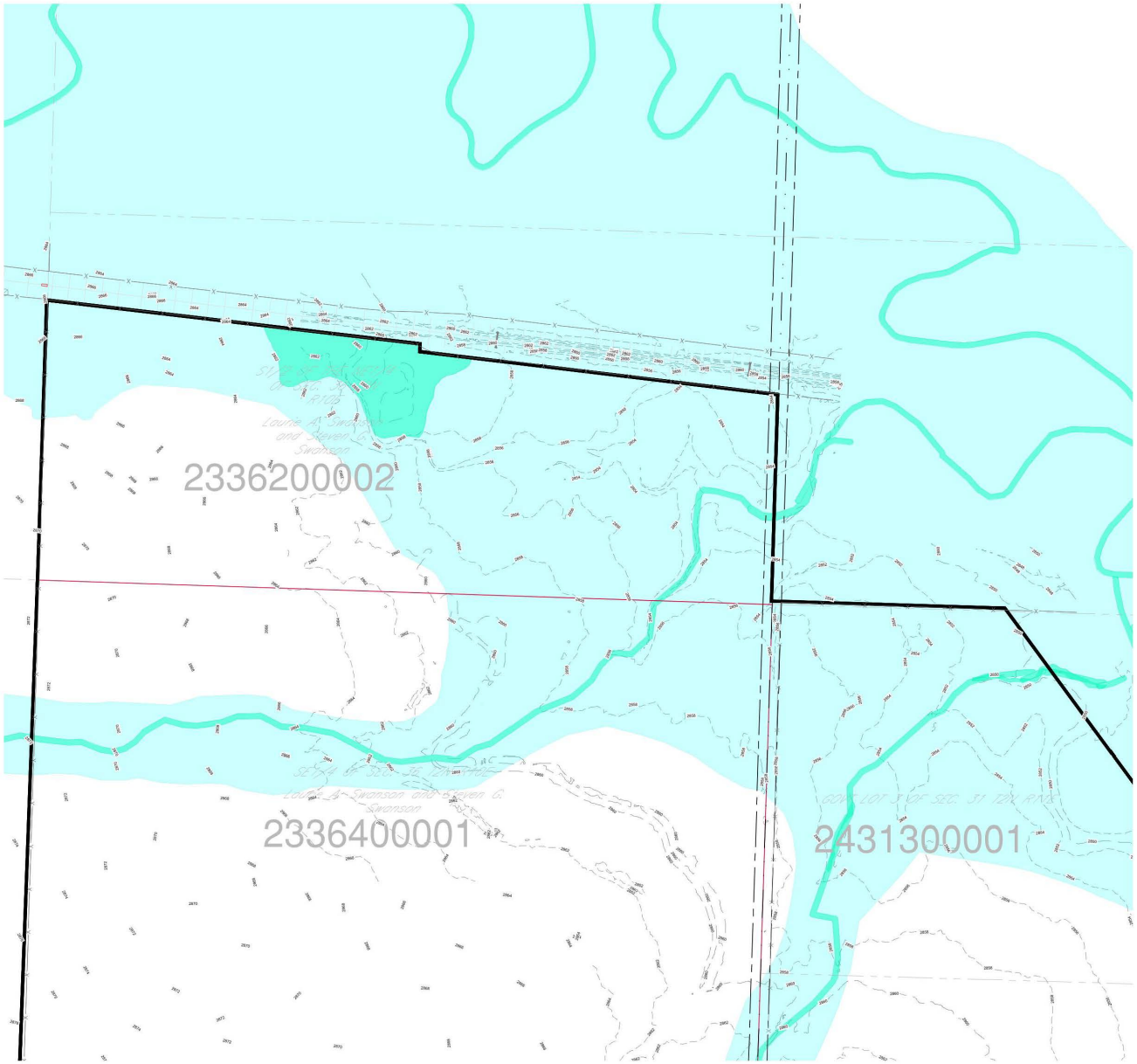
OVERALL HORIZONTAL SITE PLAN INDEX

DRAWING NUMBER: WSS-C-551-01

REVISION: 4



LEGEND

- PROPOSED DEMOLITION
- 2500' EXISTING CONTOUR
- PROJECT BOUNDARY
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- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
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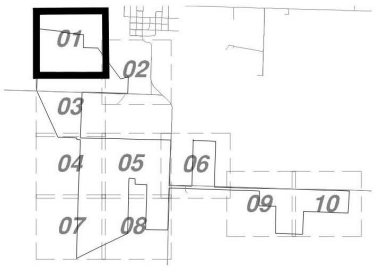

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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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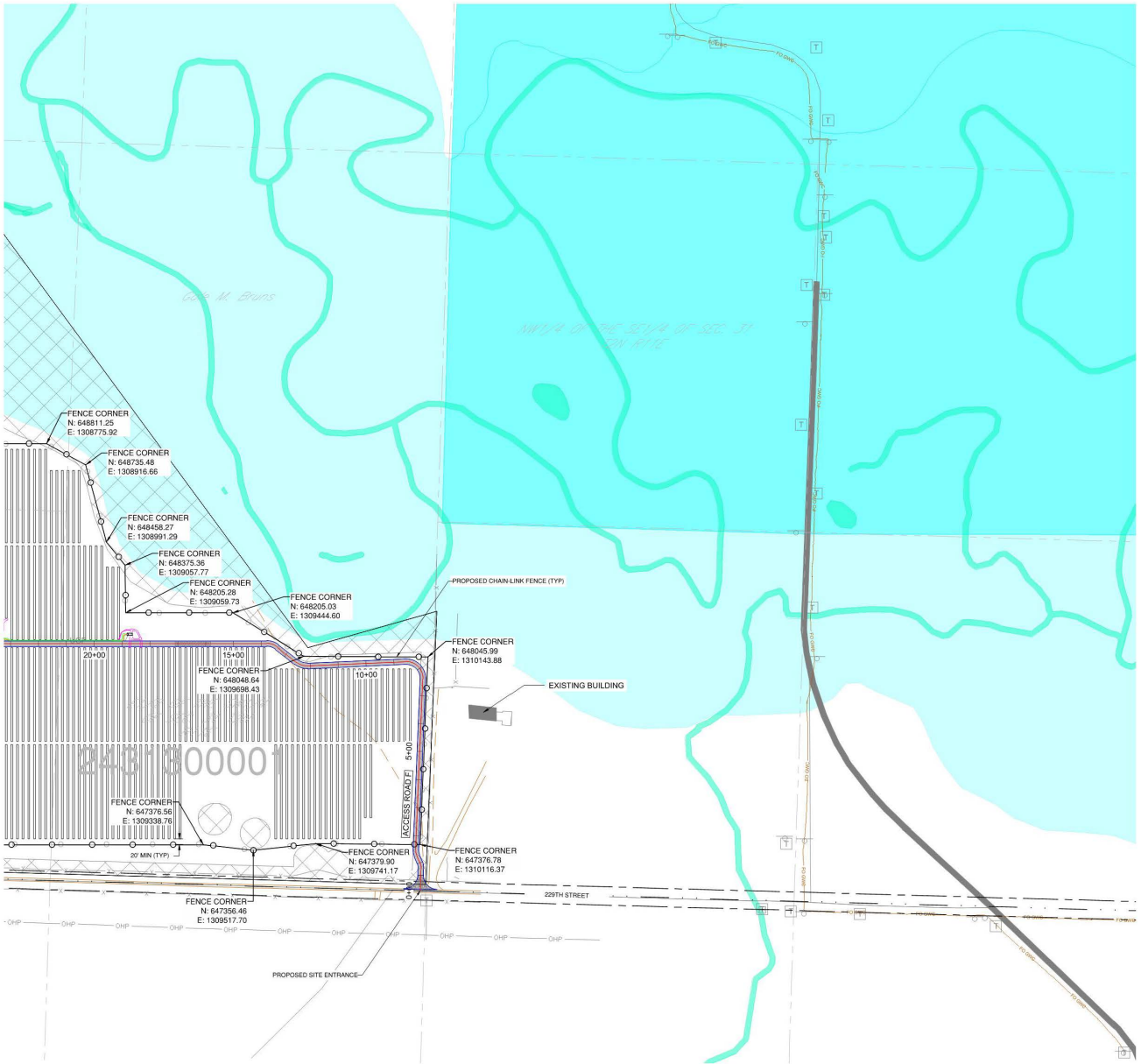
EXISTING CONDITIONS AND DEMOLITION PLAN 1

DRAWING NUMBER: WSS-C-550-01

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
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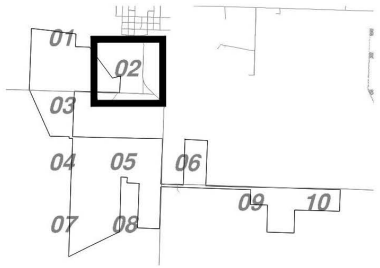

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PENNINGTON COUNTY, SOUTH DAKOTA

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PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

HORIZONTAL SITE PLAN 2

DRAWING NUMBER: WSS-C-551-03

REVISION: 3

LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
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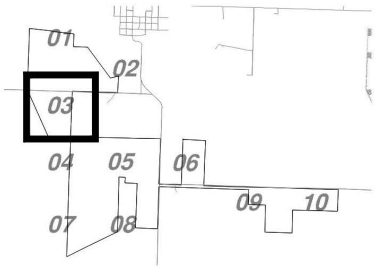

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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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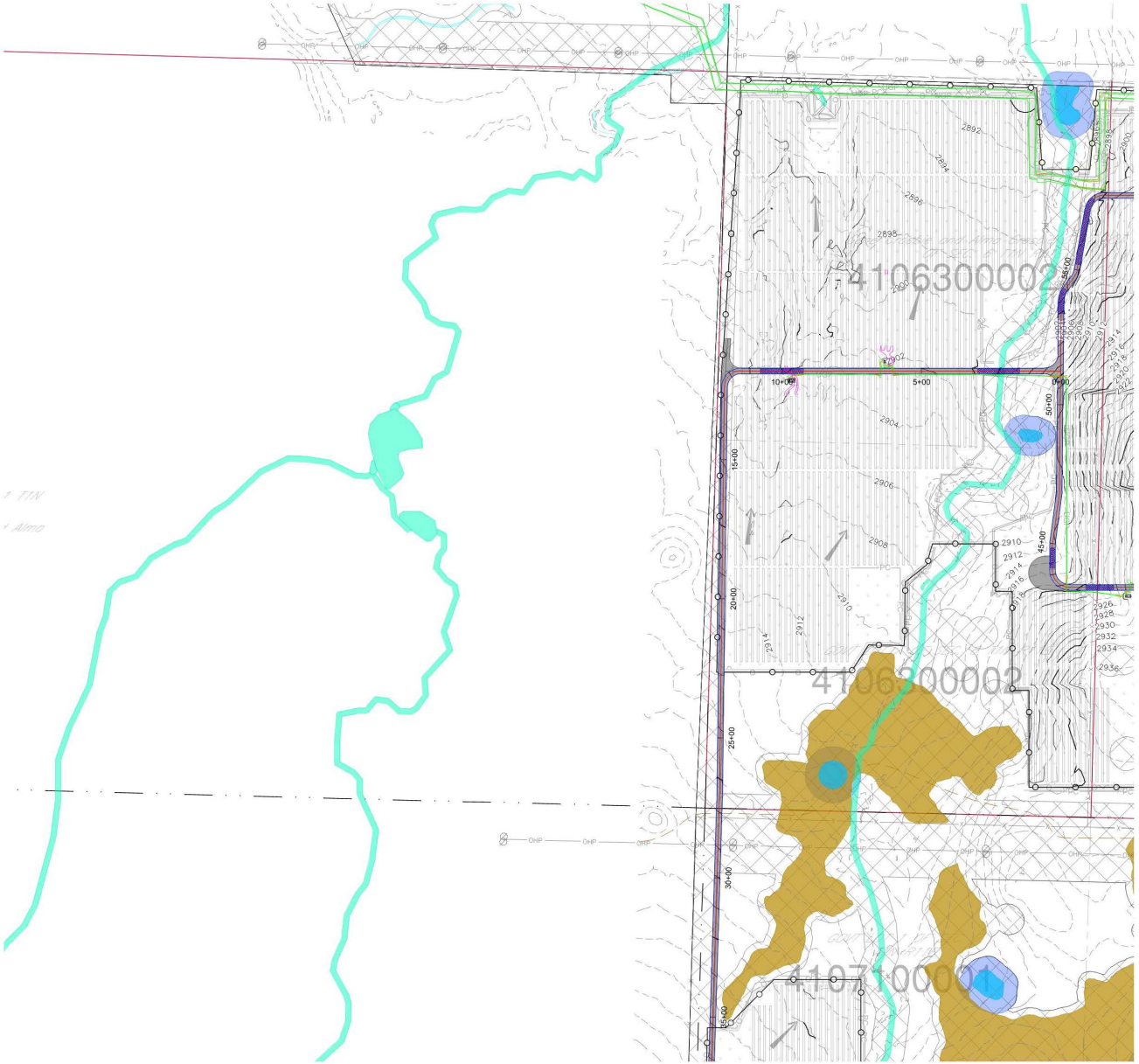
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

HORIZONTAL SITE PLAN 3

DRAWING NUMBER: WSS-C-551-04
REVISION: 3



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED FENCE
- PROPOSED PV TABLES
- PROPOSED CONTOUR
- PROPOSED COLLECTION LINE
- PROPOSED GRADING LIMITS (SEE NOTE 4)
- SEED MIX
- ROCK CONSTRUCTION ENTRANCE
- LOW WATER CROSSING
- O&M FIRE BREAK
- TRIPLE STACK FIBER ROLLS
- DIRECTION OF FLOW
- PROPOSED CULVERT
- EXISTING POWER POLE
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
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- PROJECT FACILITIES
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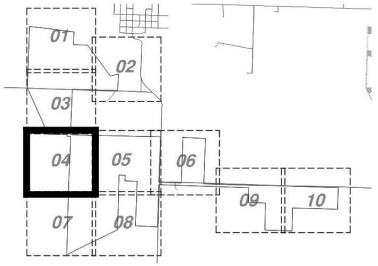
NOTES:

1. SEED MIX PER VEGETATION MANAGEMENT PLAN DATED 04/03/2020.
2. PERIMETER CONTROLS TO BE CHOSEN PER CONTRACTOR PREFERENCE FOR SEDIMENT CAPTURE ON SITE. ACCEPTABLE PERIMETER CONTROLS LISTED BELOW ARE IN ORDER OF INCREASING EFFECTIVENESS. A COMBINATION OF THE BMPS LISTED BELOW MAY BE REQUIRED IN AREAS OBSERVED TO EXPERIENCE HIGHER THAN EXPECTED SEDIMENTATION.
   2.1. SILT FENCE (DETAIL ECD-501)
   2.2. SILT WORM OR EQUIVALENT (DETAIL ECD-523.1 & ECD-523.2)
   2.3. VEGETATED TOP SOIL BERMS (DETAIL ECD-522)
   2.4. ADD FLOCCULANTS UPSTREAM PER DETAIL ECD-524 AS NEEDED.
3. SEE CONSTRUCTION NOTES FOR DUST CONTROL/SOIL STABILITY FOR AREAS OF EXPOSED SOIL.
4. PLEASE NOTE THAT THE PRESENCE OF LARGE AREAS OF EXPOSED SOILS, ESPECIALLY CLAY SOILS, REDUCE THE EFFECTIVENESS OF THE ABOVE PERIMETER CONTROLS IF NOT PROPERLY MAINTAINED DURING CONSTRUCTION (SEE SWPPP REPORT FOR MAINTENANCE SCHEDULE AND PROCEDURES).
5. LARGE AREAS OF BARE SOIL EXPOSURE SHALL BE LIMITED AND STABILIZED WITH SEEDING AND MULCH APPLICATION PROMPTLY AFTER DISTURBANCE.
6. TEMPORARY SWALES AND BASINS ARE OFTEN LOCATED ADJACENT TO EXISTING STREAMS AND WETLANDS. DISTURBANCES MUST NOT ENCROACH ON THE 25FT BUFFER PROPOSED AT THE STREAM AND WETLAND TOP OF BANK.
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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SUITE 1200
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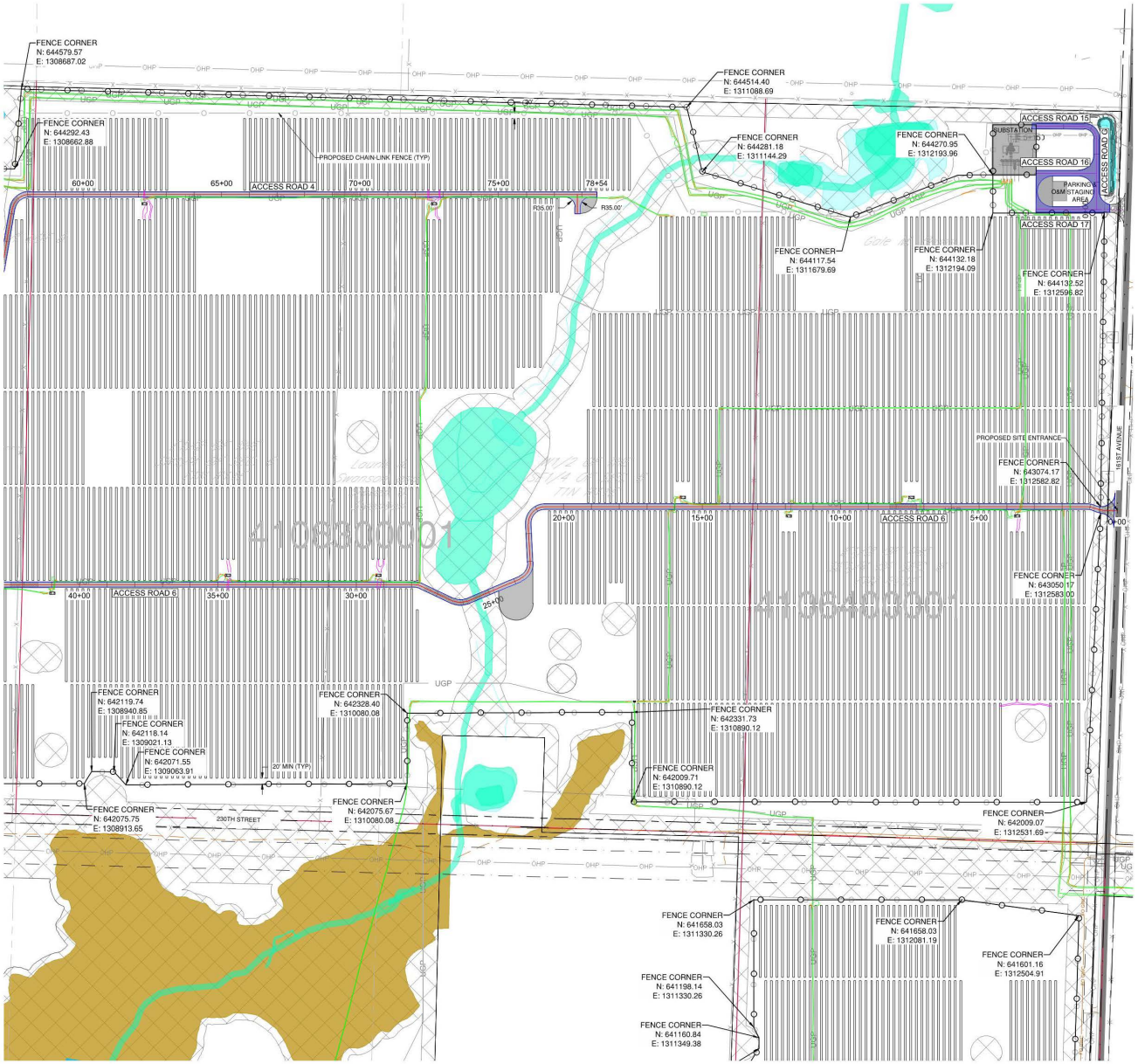
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 4

DRAWING NUMBER: WSS-C-522-05

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
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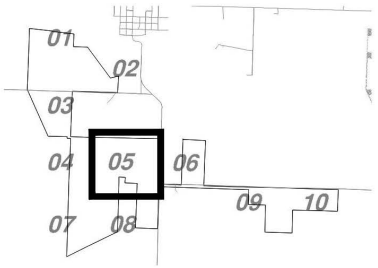

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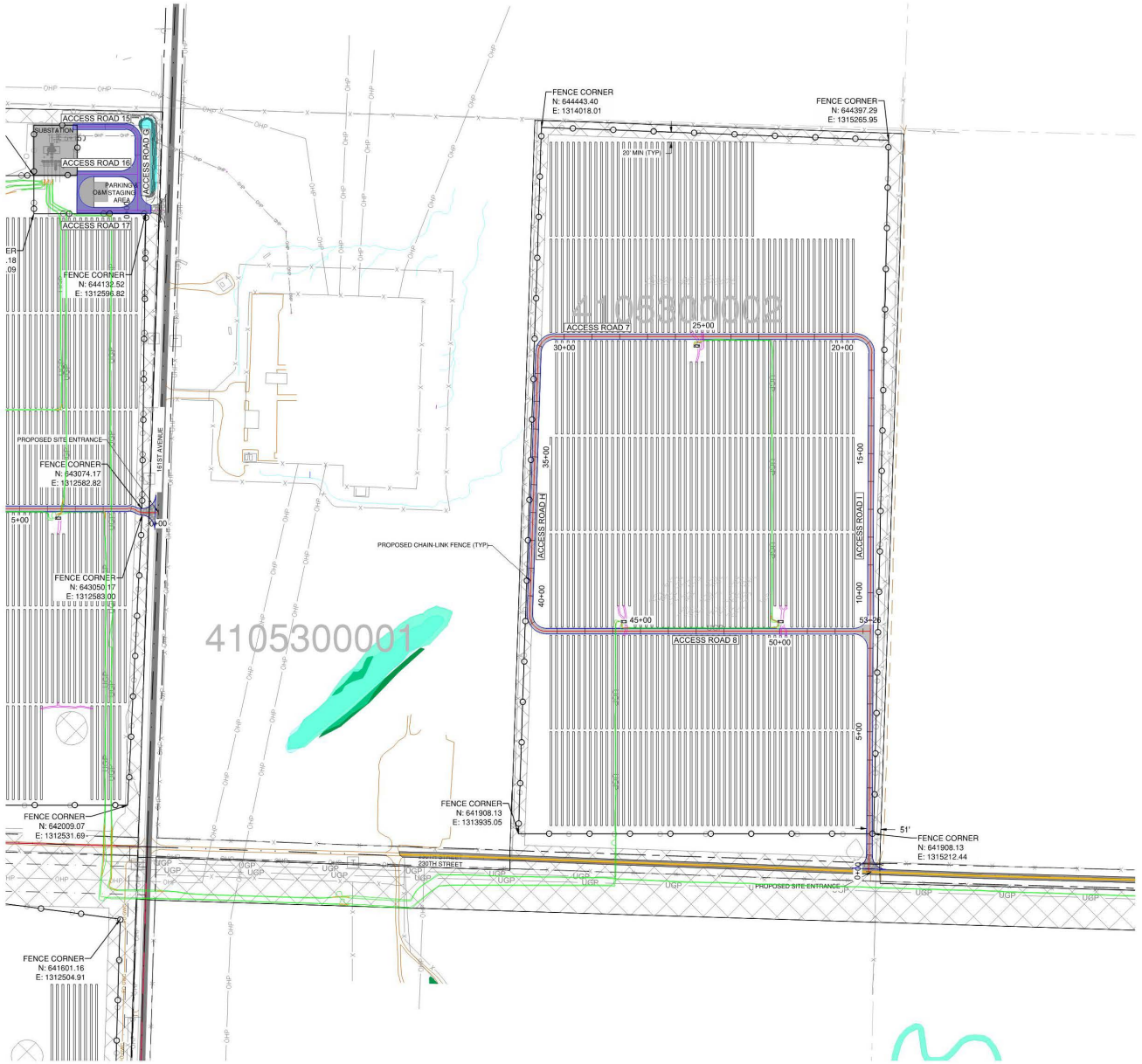
HORIZONTAL SITE PLAN 5

DRAWING NUMBER: WSS-C-551-06

REVISION: 3



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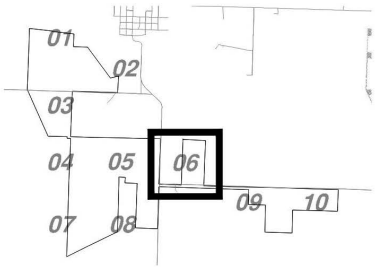

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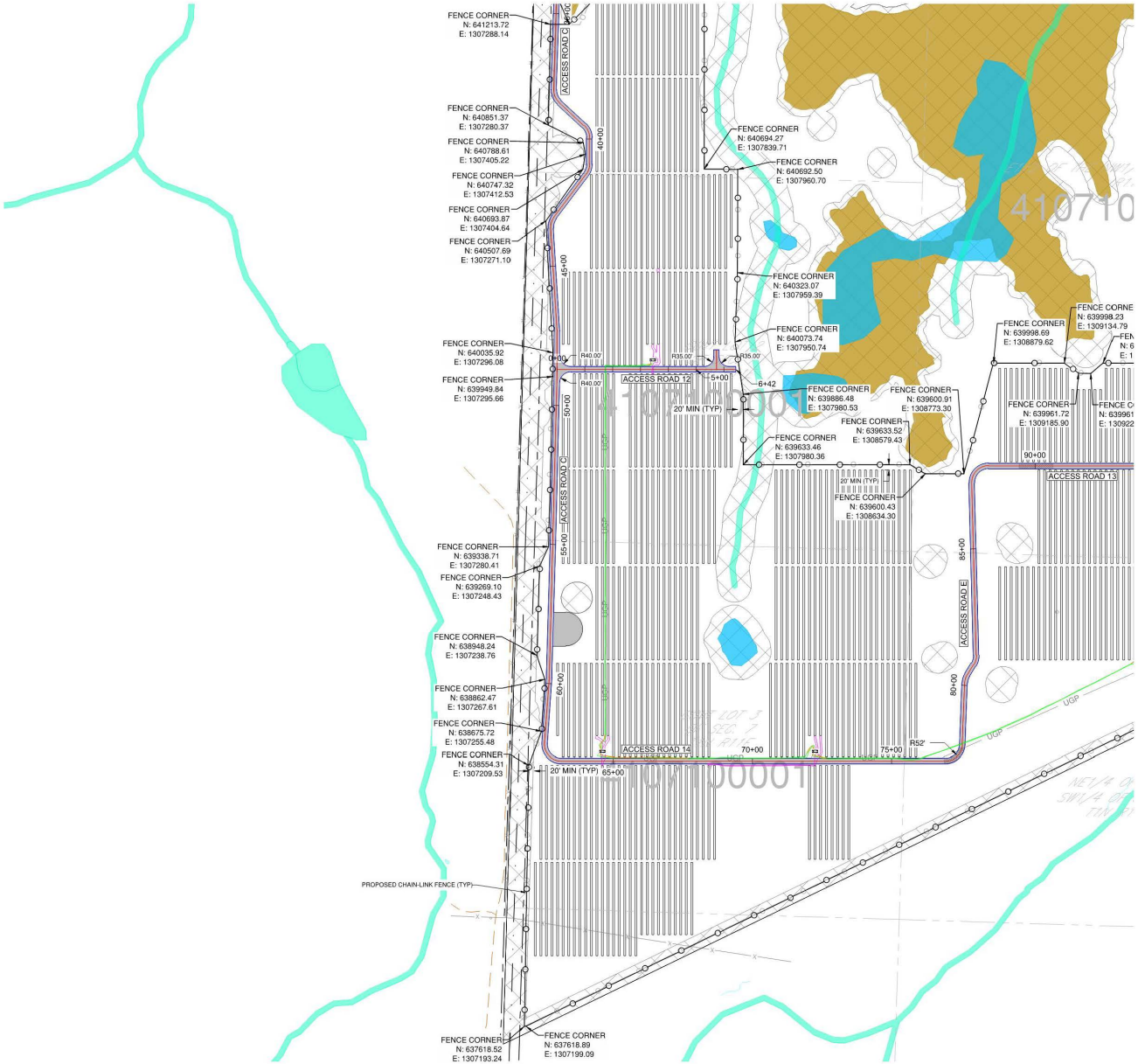
HORIZONTAL SITE PLAN 6

DRAWING NUMBER: WSS-C-551-07

REVISION: 4



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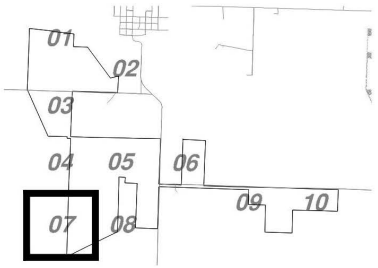

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/14/2024	RECORD DRAWINGS	BMB
2	02/16/2024	RECORD DRAWINGS	BMB
3	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 100 200 400

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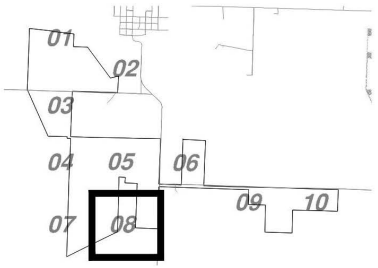
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

HORIZONTAL SITE PLAN 7

DRAWING NUMBER: WSS-C-551-08
REVISION: 3

LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
- PROPOSED OVERHEAD POWER
- PROPOSED MV COLLECTION
- BORE LOCATION
- PROPERTY LINE
- RIGHT OF WAY (ROW) LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD CENTERLINE
- EXISTING DIRT ROAD
- EXISTING EASEMENT
- EXISTING FIBER OPTIC
- EXISTING OVERHEAD POWER
- EXISTING TREE LINE
- EXISTING STREAMS
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA BOUNDARY
- PROPOSED 24' GATE
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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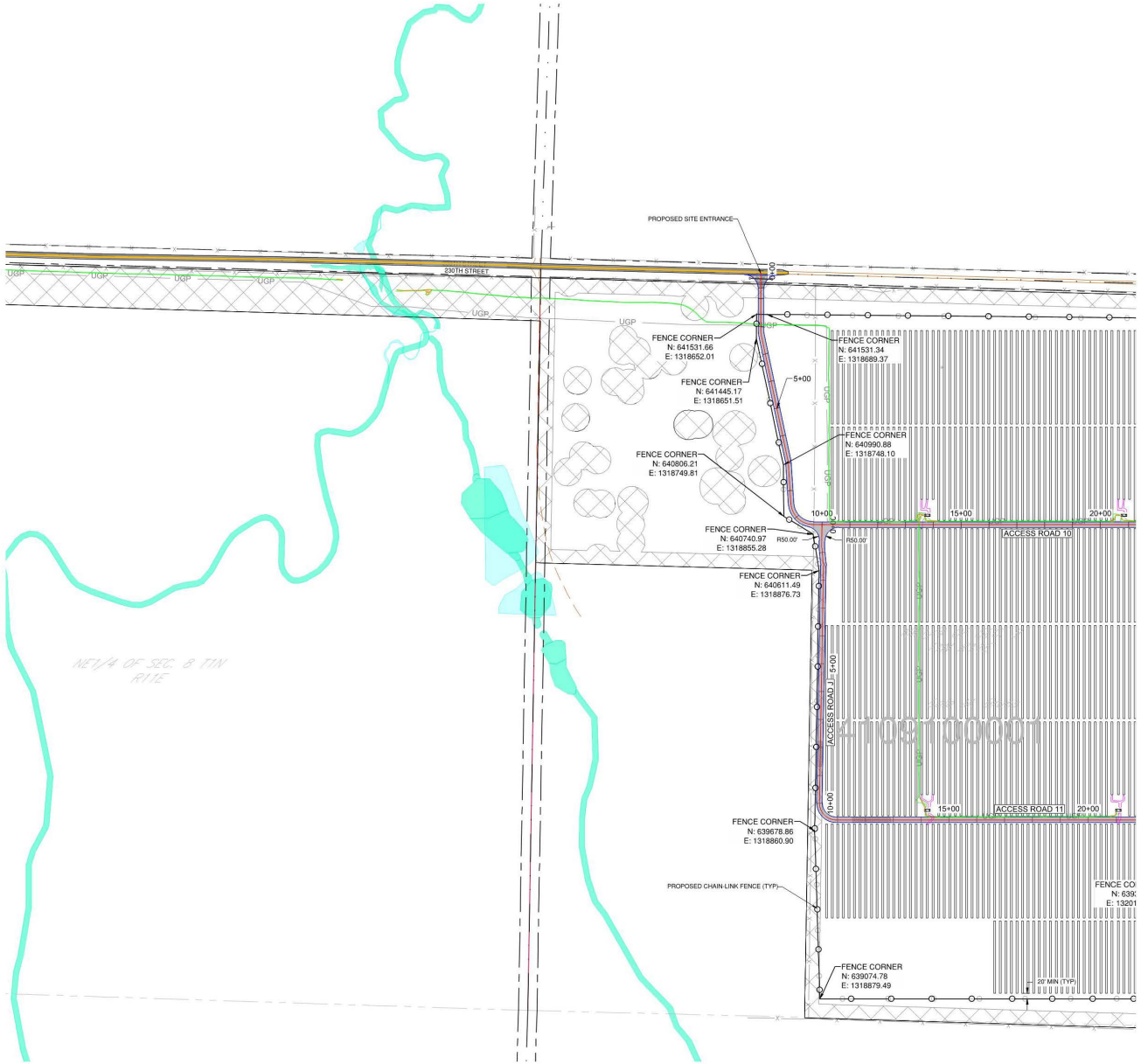
HORIZONTAL SITE PLAN 8

DRAWING NUMBER: WSS-C-551-09

REVISION: 2



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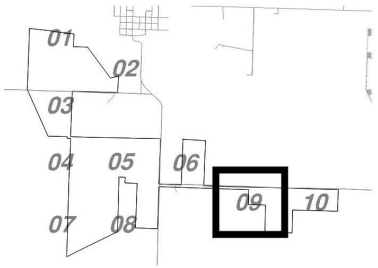

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0	02/09/2024	RECORD DRAWINGS	BMB
1	02/14/2024	RECORD DRAWINGS	BMB
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3	02/26/2024	RECORD DRAWINGS	BMB
4	05/23/2024	RECORD DRAWINGS	BMB

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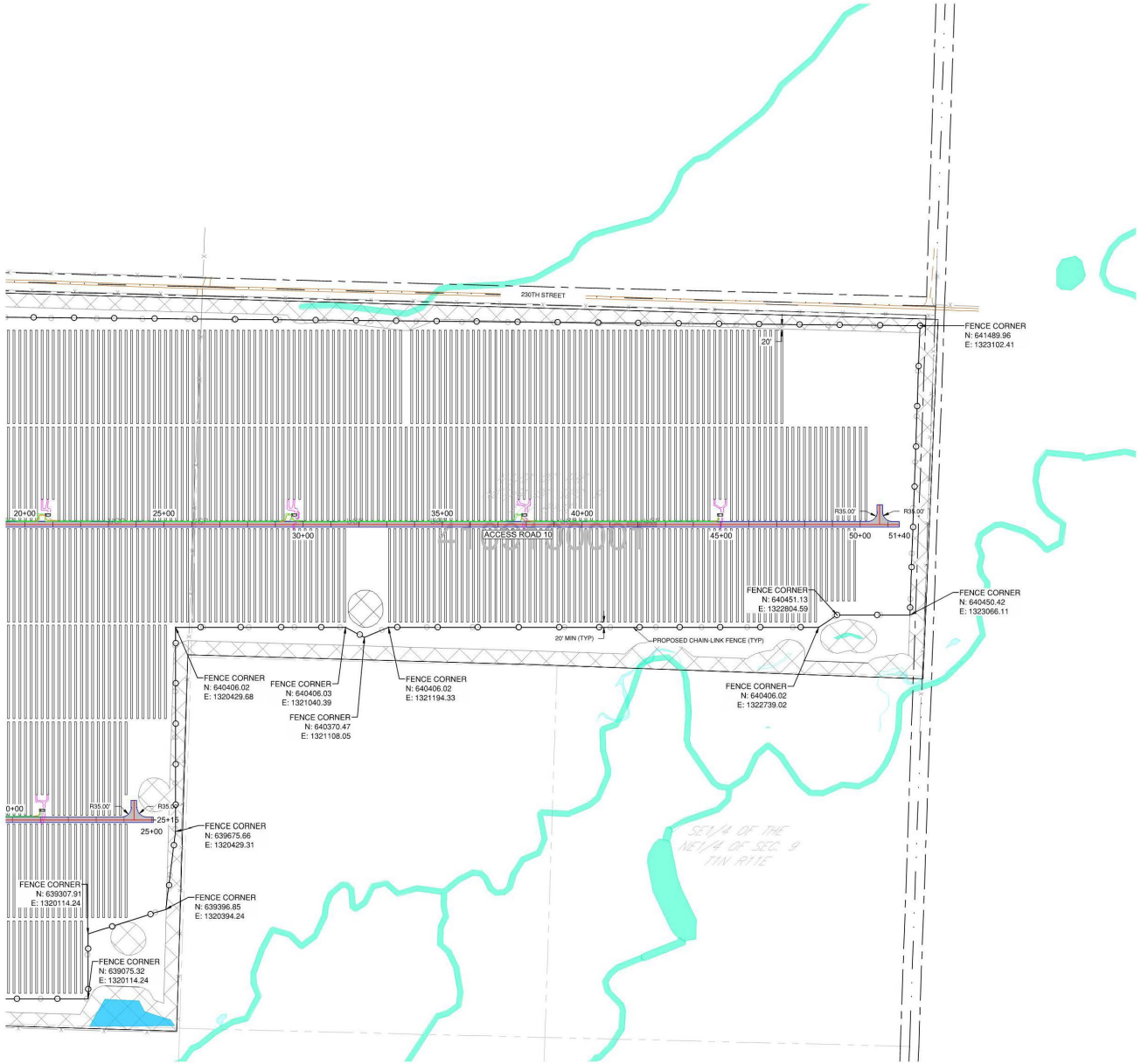
CONTACT: ULTEIG.COM

HORIZONTAL SITE PLAN 9

DRAWING NUMBER: WSS-C-551-10

REVISION: 4



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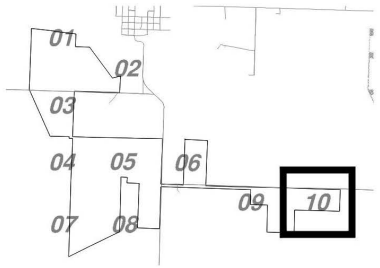

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PENNINGTON COUNTY, SOUTH DAKOTA

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PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

HORIZONTAL SITE PLAN 10

DRAWING NUMBER: WSS-C-551-11

REVISION: 3

FENCE CORNER SCHEDULE				
CORNER ID	NORTHING	EASTING	LATITUDE	LONGITUDE
10001	640664.49	1312476.91	44.064038	-102.829579
10002	639919.38	1312454.64	44.061993	-102.829579
10003	639919.15	1311272.43	44.061894	-102.834074
10004	640412.71	1311248.86	44.063246	-102.834221
10005	641027.55	1311289.23	44.064935	-102.834138
10006	641120.97	1311349.38	44.065196	-102.833919
10007	641160.84	1311349.38	44.065306	-102.833924
10008	641198.14	1311330.26	44.065406	-102.834001
10009	641658.03	1311330.26	44.066667	-102.834054
10010	641658.03	1312081.19	44.066729	-102.831198
10011	641601.16	1312504.91	44.066608	-102.829580
10012	640688.48	1312477.63	44.064103	-102.829579
10014	644911.84	1307280.6	44.075254	-102.849830
10015	645199.13	1307280.6	44.076042	-102.849863
10016	645254.22	1307340.85	44.076198	-102.849640
10017	645650.44	1307364.77	44.077286	-102.849595
10018	646071.58	1307377.6	44.078442	-102.849594
10019	647040.55	1307383.44	44.081100	-102.849684
10020	647062.97	1304969.11	44.080960	-102.858870
10021	644911.84	1305944.52	44.075143	-102.854911
10022	644911.84	1306481.33	44.075187	-102.852870
10023	644920.7	1306511.36	44.075214	-102.852756
10024	644920.7	1306541.38	44.075217	-102.852642
10025	644911.84	1306571.69	44.075195	-102.852526
10027	648508.48	1304868.38	44.084915	-102.859421
10028	648192.67	1304841.26	44.084047	-102.859487
10029	647433.94	1304817.47	44.081965	-102.859490
10030	647433.94	1307068.13	44.082152	-102.850929
10031	647519.46	1307068.13	44.082386	-102.850938
10032	647808.24	1307108.37	44.083182	-102.850819
10033	648079.47	1307134.41	44.083928	-102.850751
10034	648195.31	1307204.59	44.084251	-102.850497
10035	648577.36	1307391.13	44.085314	-102.849832
10036	649223.11	1307371.12	44.087083	-102.849982
10037	649222.72	1304888.03	44.086875	-102.859428
10039	641531.66	1318652.01	44.066922	-102.806195
10040	641445.17	1318651.51	44.066685	-102.806187
10041	640990.88	1318748.1	44.065447	-102.805768
10042	640806.21	1318749.81	44.064941	-102.805741
10043	640740.97	1318855.28	44.064771	-102.805332
10044	640611.49	1318876.73	44.064417	-102.805236
10045	639678.86	1318860.9	44.061859	-102.805190
10046	639074.78	1318879.49	44.060204	-102.805051
10047	639075.32	1320114.24	44.060306	-102.800356
10048	639307.91	1320114.24	44.060944	-102.800382
10049	639396.85	1320394.24	44.061210	-102.799328
10050	639675.66	1320429.31	44.061978	-102.799226
10051	640406.02	1320429.68	44.063980	-102.799307
10052	640406.03	1321040.39	44.064030	-102.796984
10053	640370.47	1321108.05	44.063938	-102.796723
10054	640406.02	1321194.33	44.064043	-102.796399
10055	640406.02	1322739.02	44.064168	-102.790525
10056	640451.13	1322804.59	44.064297	-102.790280

FENCE CORNER SCHEDULE				
CORNER ID	NORTHING	EASTING	LATITUDE	LONGITUDE
10057	640450.42	1323066.11	44.064316	-102.789286
10058	641489.96	1323102.41	44.067170	-102.789265
10059	641531.34	1318689.37	44.066924	-102.806053
10060	643074.17	1312582.82	44.070654	-102.829452
10061	644132.52	1312596.82	44.073557	-102.829520
10067	643050.17	1312583	44.070588	-102.829449
10068	642009.07	1312531.69	44.067729	-102.829525
10069	642009.71	1310890.12	44.067595	-102.835768
10070	642331.73	1310890.12	44.068478	-102.835805
10071	642328.4	1310080.08	44.068402	-102.838885
10072	642075.67	1310080.08	44.067709	-102.838856
10073	642071.55	1309063.91	44.067614	-102.842720
10074	642118.14	1309021.13	44.067738	-102.842888
10075	642119.74	1308940.85	44.067736	-102.843194
10076	642075.75	1308913.65	44.067613	-102.843292
10077	642075.75	1308443.76	44.067574	-102.845079
10078	642422.87	1308443.76	44.068526	-102.845119
10079	642422.87	1308383.4	44.068521	-102.845349
10080	642778.2	1308383.4	44.069495	-102.845389
10081	642778.2	1308323.03	44.069490	-102.845619
10082	642948.78	1308323.03	44.069958	-102.845639
10083	642948.85	1308096.36	44.069939	-102.846501
10084	642873.08	1308076.24	44.069730	-102.846569
10085	642812.67	1307999.08	44.069558	-102.846855
10086	642584.49	1307996.03	44.068932	-102.846840
10087	642586.21	1307867.27	44.068926	-102.847330
10088	642487.96	1307803.81	44.068651	-102.847560
10089	642487.96	1307349.06	44.068613	-102.849290
10090	642487.95	1307325.06	44.068611	-102.849381
10092	637618.89	1307199.09	44.055249	-102.849299
10095	641387.31	1307526.59	44.065610	-102.848488
10096	641387.44	1307839.78	44.065636	-102.847297
10097	640694.27	1307839.71	44.063736	-102.847217
10098	640692.5	1307960.7	44.063741	-102.846757
10099	640323.07	1307959.39	44.062728	-102.846719
10100	640073.74	1307950.74	44.062043	-102.846724
10101	639886.48	1307980.53	44.061532	-102.846589
10102	639633.46	1307980.36	44.060838	-102.846560
10103	639633.52	1308579.43	44.060888	-102.844282
10104	639600.43	1308634.3	44.060802	-102.844070
10105	639600.91	1308773.3	44.060815	-102.843541
10106	639998.69	1308879.62	44.061915	-102.843183
10107	639998.23	1309134.79	44.061934	-102.842212
10108	639961.72	1309185.9	44.061838	-102.842014
10109	639961.34	1309229.2	44.061841	-102.841849
10110	639998.63	1309273.78	44.061947	-102.841684
10111	639999.03	1309711.19	44.061984	-102.840021
10112	639691.55	1310075.84	44.061171	-102.838599
10113	638880.92	1309796.86	44.058925	-102.839566
10114	637618.52	1307193.24	44.055248	-102.849321
10115	638554.31	1307209.53	44.057815	-102.849367
10116	638675.72	1307255.48	44.058152	-102.849206
10117	638862.47	1307267.61	44.058665	-102.849182

FENCE CORNER SCHEDULE				
CORNER ID	NORTHING	EASTING	LATITUDE	LONGITUDE
10118	638948.24	1307238.76	44.058898	-102.849301
10119	639269.1	1307248.43	44.059779	-102.849302
10120	639338.71	1307280.41	44.059972	-102.849188
10121	639949.84	1307295.66	44.061649	-102.849200
10122	640035.92	1307296.08	44.061885	-102.849209
10123	640507.69	1307271.1	44.063177	-102.849358
10124	640693.87	1307404.64	44.063698	-102.848872
10125	640747.32	1307412.53	44.063846	-102.848848
10126	640788.61	1307405.22	44.063958	-102.848880
10127	640851.37	1307280.37	44.064120	-102.849362
10128	641213.33	1307354.49	44.065119	-102.849122
10129	641213.72	1307288.14	44.065114	-102.849375
10131	641908.13	1313935.05	44.067568	-102.824176
10132	644443.4	1314018.01	44.074526	-102.824150
10133	644397.29	1315265.95	44.074503	-102.819398
10134	641908.13	1315212.44	44.067673	-102.819318
10136	647376.56	1309338.76	44.082183	-102.842285
10137	647356.46	1309517.7	44.082143	-102.841602
10138	647379.9	1309741.17	44.082226	-102.840754
10139	647376.78	1310116.37	44.082248	-102.839327
10140	648045.99	1310143.88	44.084085	-102.839299
10141	648048.64	1309698.43	44.084056	-102.840994
10142	648205.03	1309444.6	44.084464	-102.841977
10143	648205.28	1309059.73	44.084432	-102.843441
10144	648375.36	1309057.77	44.084899	-102.843468
10145	648458.27	1308991.29	44.085120	-102.843731
10146	648735.48	1308916.66	44.085874	-102.844046
10147	648811.25	1308775.92	44.086070	-102.844591
10148	648812.5	1307884.02	44.086000	-102.847984
10149	648467.81	1307808.79	44.085048	-102.848230
10150	648187.17	1307808.79	44.084279	-102.848198
10151	648079.01	1307883.89	44.083989	-102.847900
10152	647801.23	1307883.89	44.083227	-102.847868
10153	647451.44	1307904.02	44.082269	-102.847751
10154	647376.56	1307905.85	44.082064	-102.847735
10160	644132.18	1312194.09	44.073523	-102.831052
10161	644270.95	1312193.96	44.073903	-102.831068
10162	644117.54	1311679.69	44.073440	-102.833006
10163	644281.18	1311144.29	44.073845	-102.835062
10164	644514.4	1311088.69	44.074480	-102.835300
10165	644579.57	1308687.02	44.074460	-102.844442
10166	644292.43	1308662.88	44.073670	-102.844501
10167	644292.55	1308491.61	44.073656	-102.845152
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10170	644559.71	1307405.8	44.074299	-102.849313
10171	643531.41	1307336.96	44.071473	-102.849456
10172	642487.95	1307321.5	44.068611	-102.849395

WILD SPRINGS
SOLAR PROJECT
PENNINGTON COUNTY,
SOUTH DAKOTA

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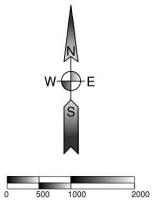

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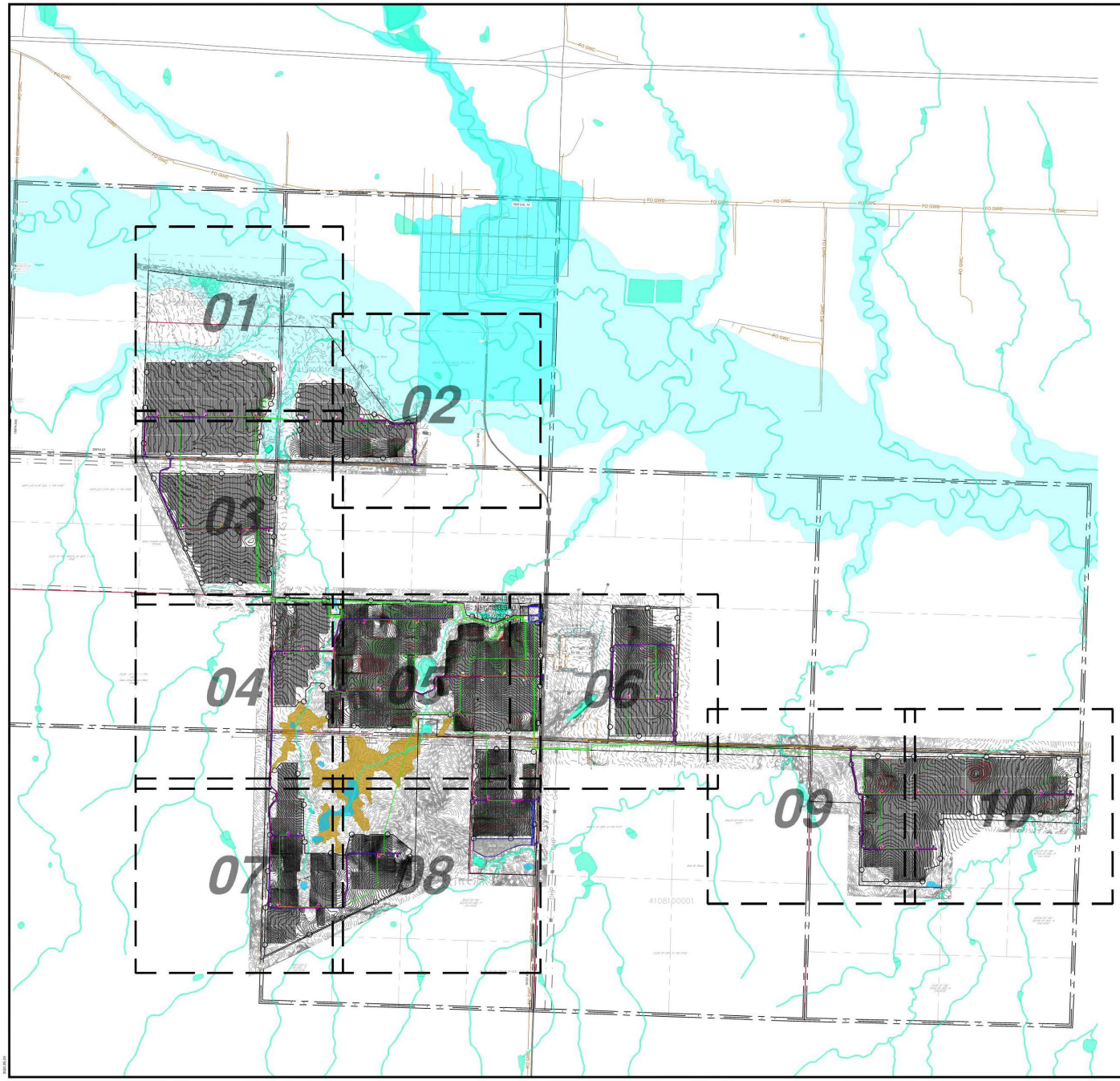
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

FENCE CORNER SCHEDULE

DRAWING NUMBER: WSS-C-551-12
REVISION: 1



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- PROPOSED MV COLLECTION SYSTEM
- PROPOSED OVERHEAD POWER
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING CONTOUR
- POST CONSTRUCTION CONTOUR
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
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- EXISTING CULVERT
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- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA
- PROPOSED LOW WATER CROSSINGS
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- POST CONSTRUCTION ROAD EDGE/CENTERLINE
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NOTE: ELECTRICAL MV COLLEVTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.

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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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0	02/09/2024	RECORD DRAWINGS	BMB
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2	05/23/2024	RECORD DRAWINGS	BMB

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BLOOMINGTON, MN 55437

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2500 CO RD 42 W,
BURNSVILLE, MN 55337

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0 500 1000 2000

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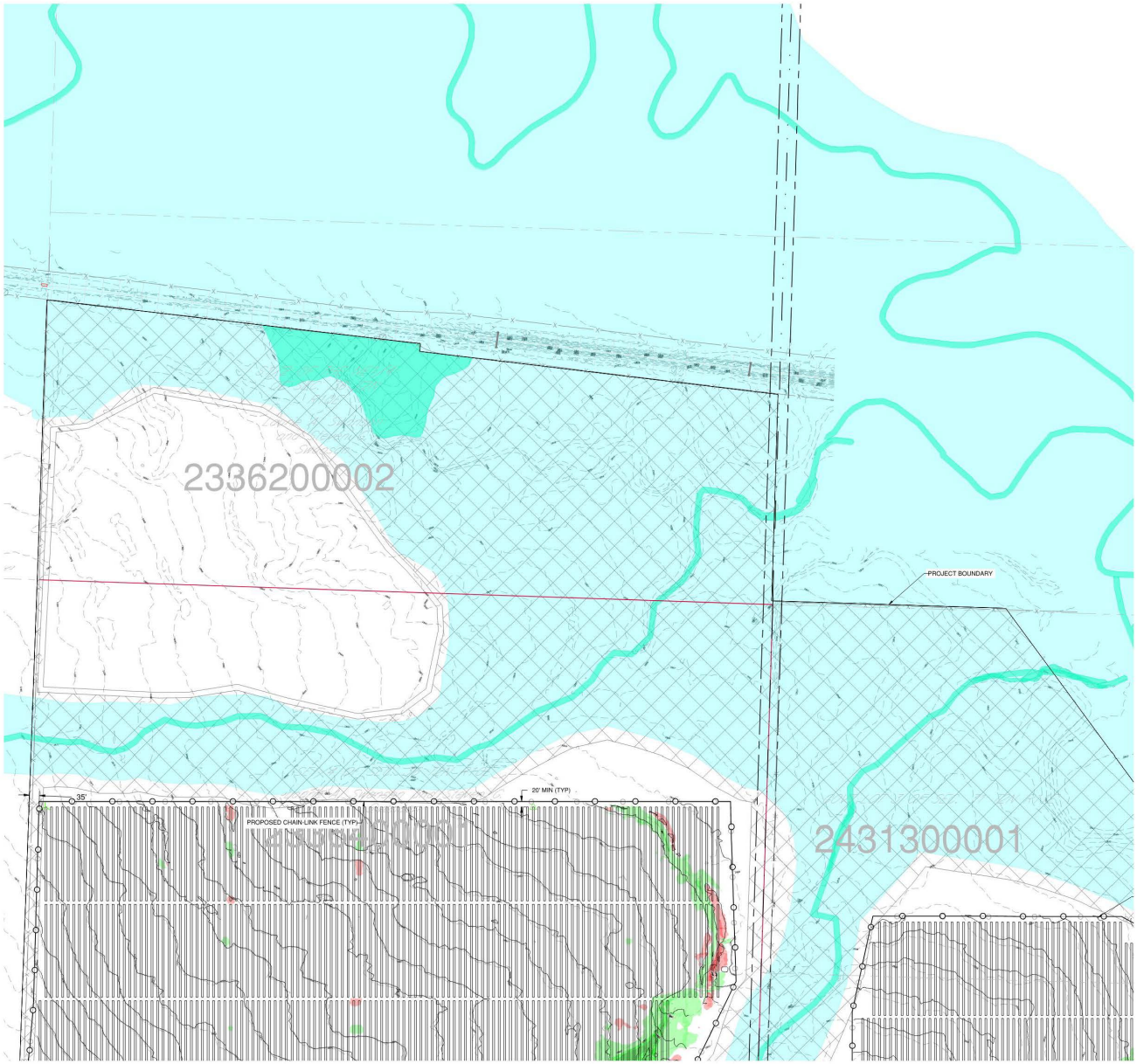
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

OVERALL GRADING PLAN INDEX

DRAWING NUMBER: WSS-C-553-01
REVISION: 2



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED EXISTING ROAD UPGRADE
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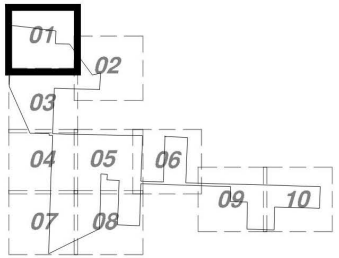

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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0	02/09/2024	RECORD DRAWINGS	BMB
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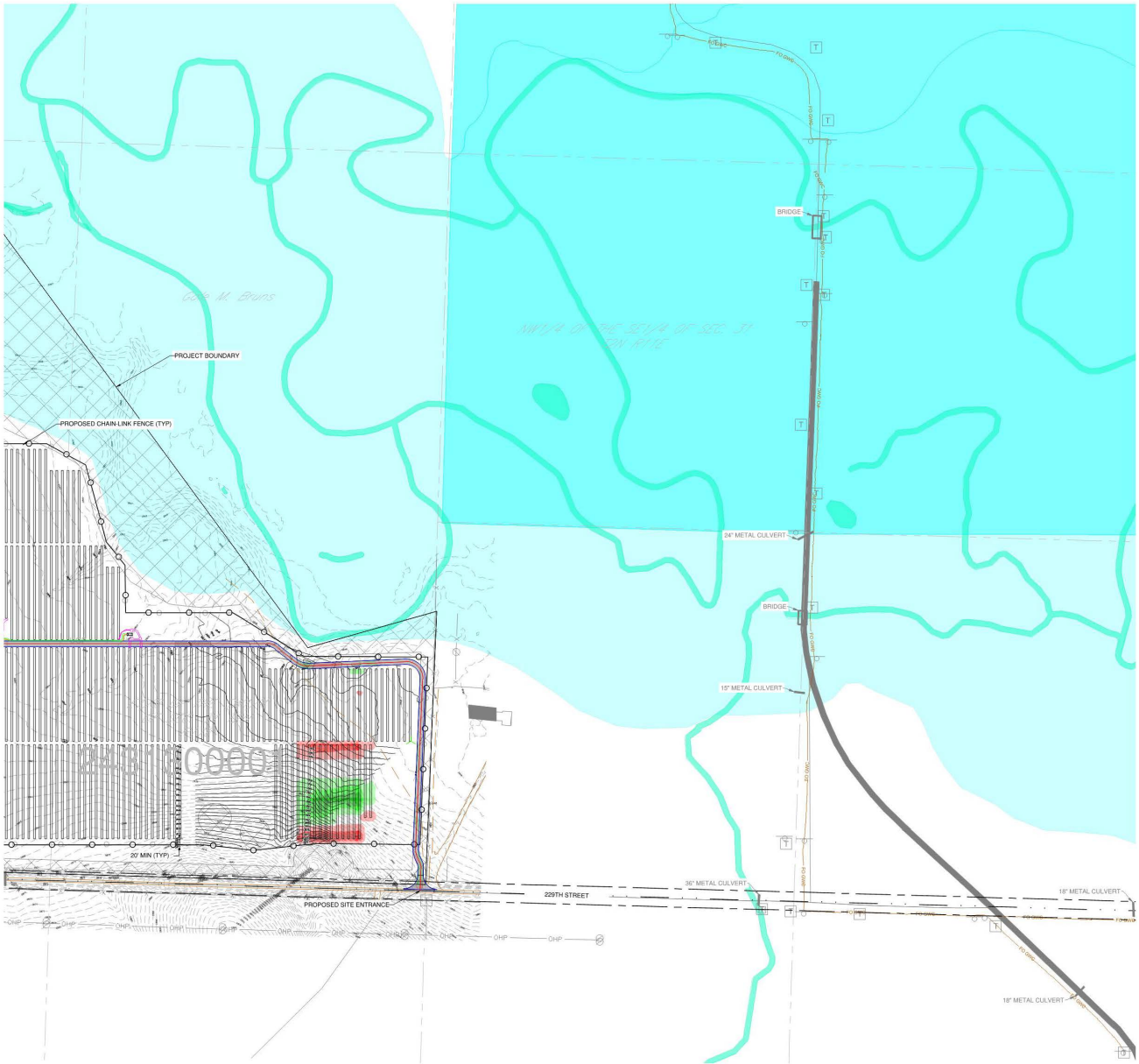
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 1

DRAWING NUMBER: WSS-C-553-02
REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
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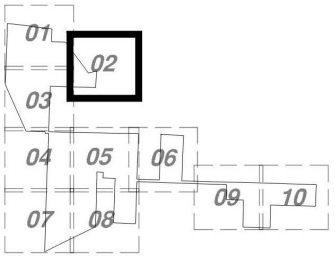

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PENNINGTON COUNTY, SOUTH DAKOTA

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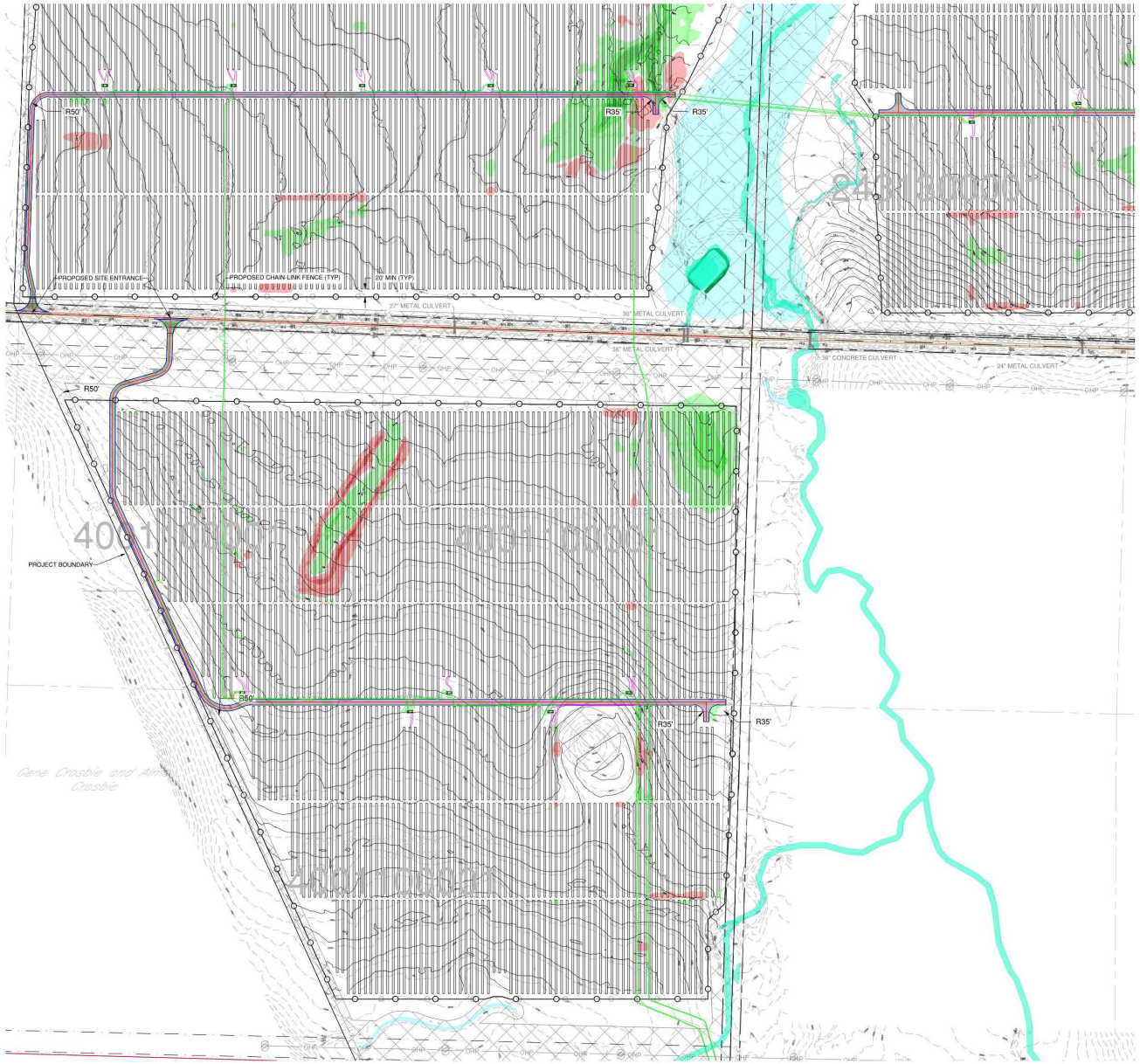
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 2

DRAWING NUMBER: WSS-C-553-03

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
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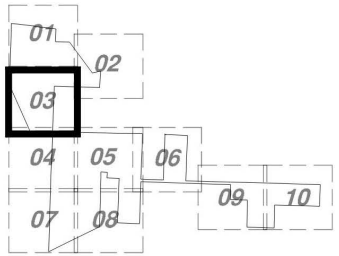

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 3

DRAWING NUMBER: WSS-C-553-04

REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED EXISTING ROAD UPGRADE
- PROPOSED POWER STATION
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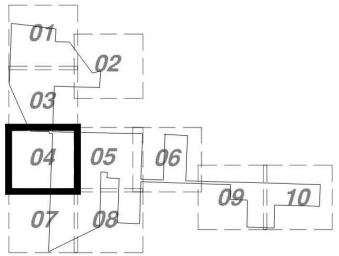


KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

N
W E
S

0 100 200 400

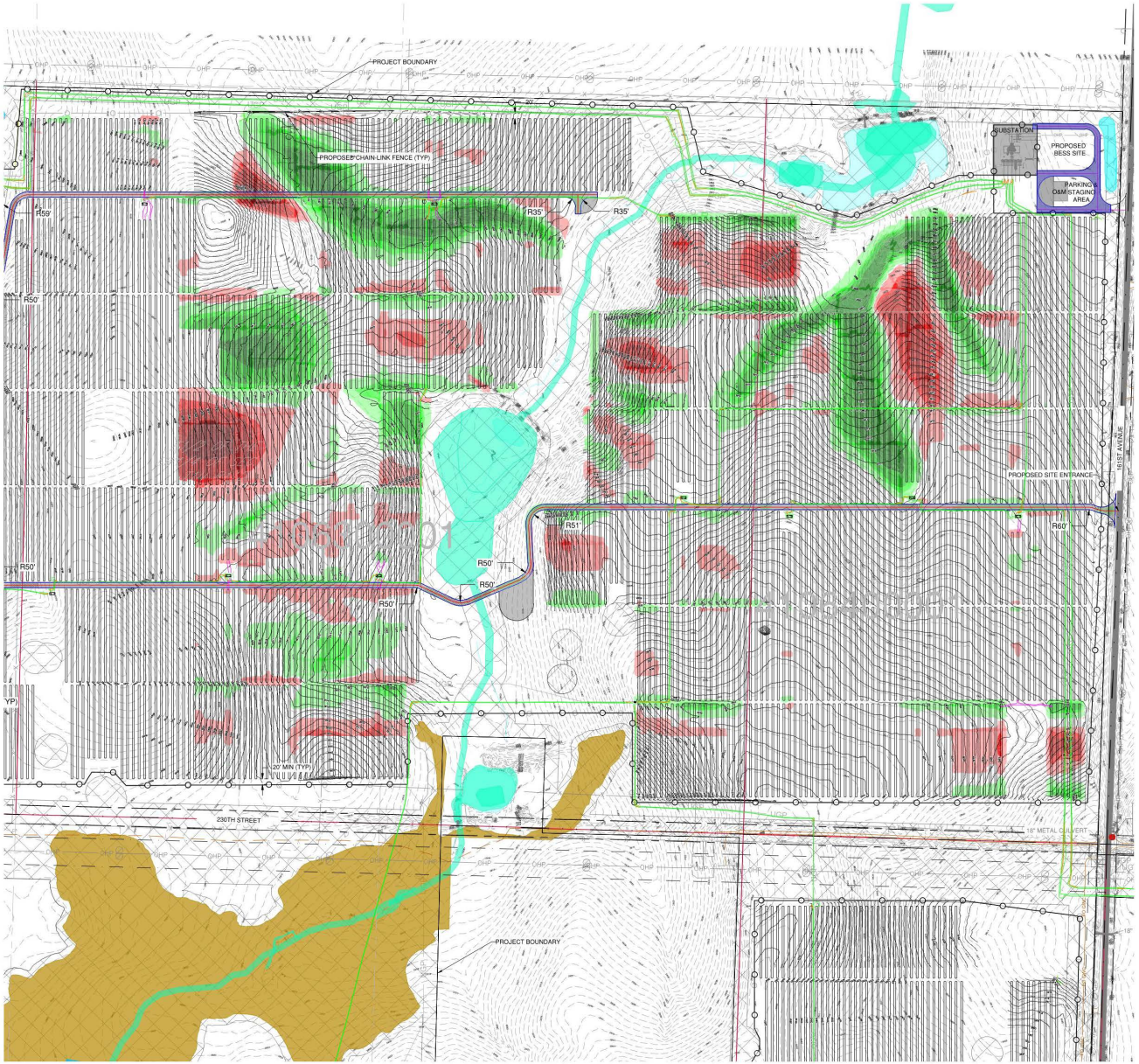
NSRS 2011 South Dakota State Planes, South Zone, US Foot

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 4

DRAWING NUMBER: WSS-C-553-05

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
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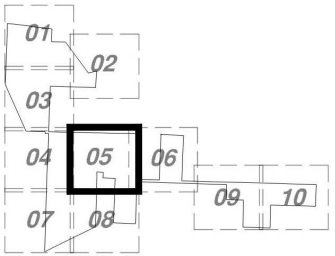

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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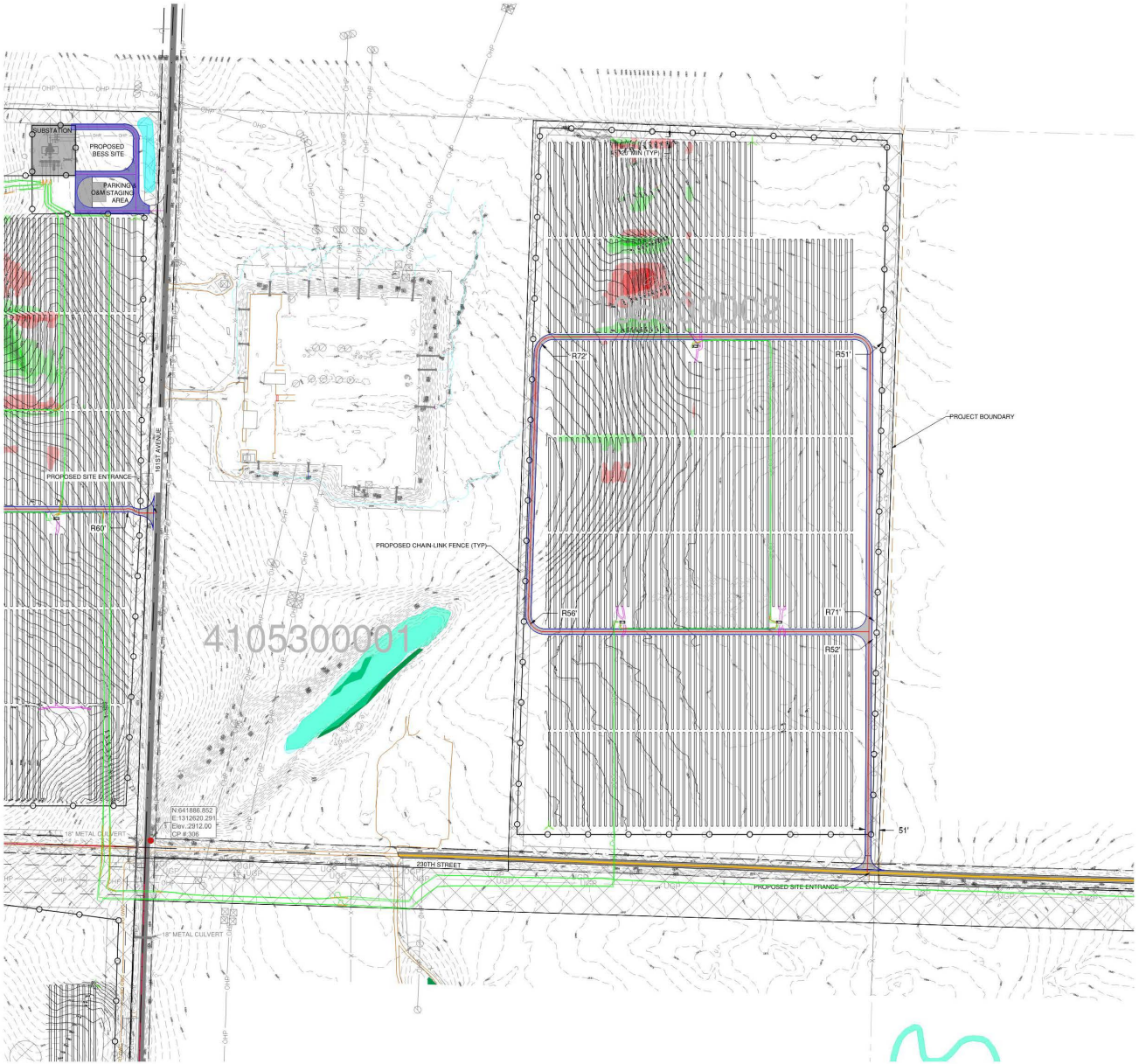
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 5

DRAWING NUMBER: WSS-C-553-06

REVISION: 1



LEGEND

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- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
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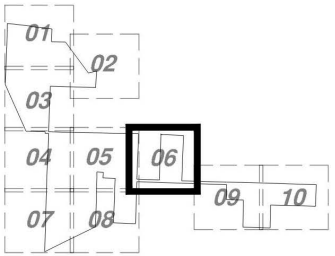

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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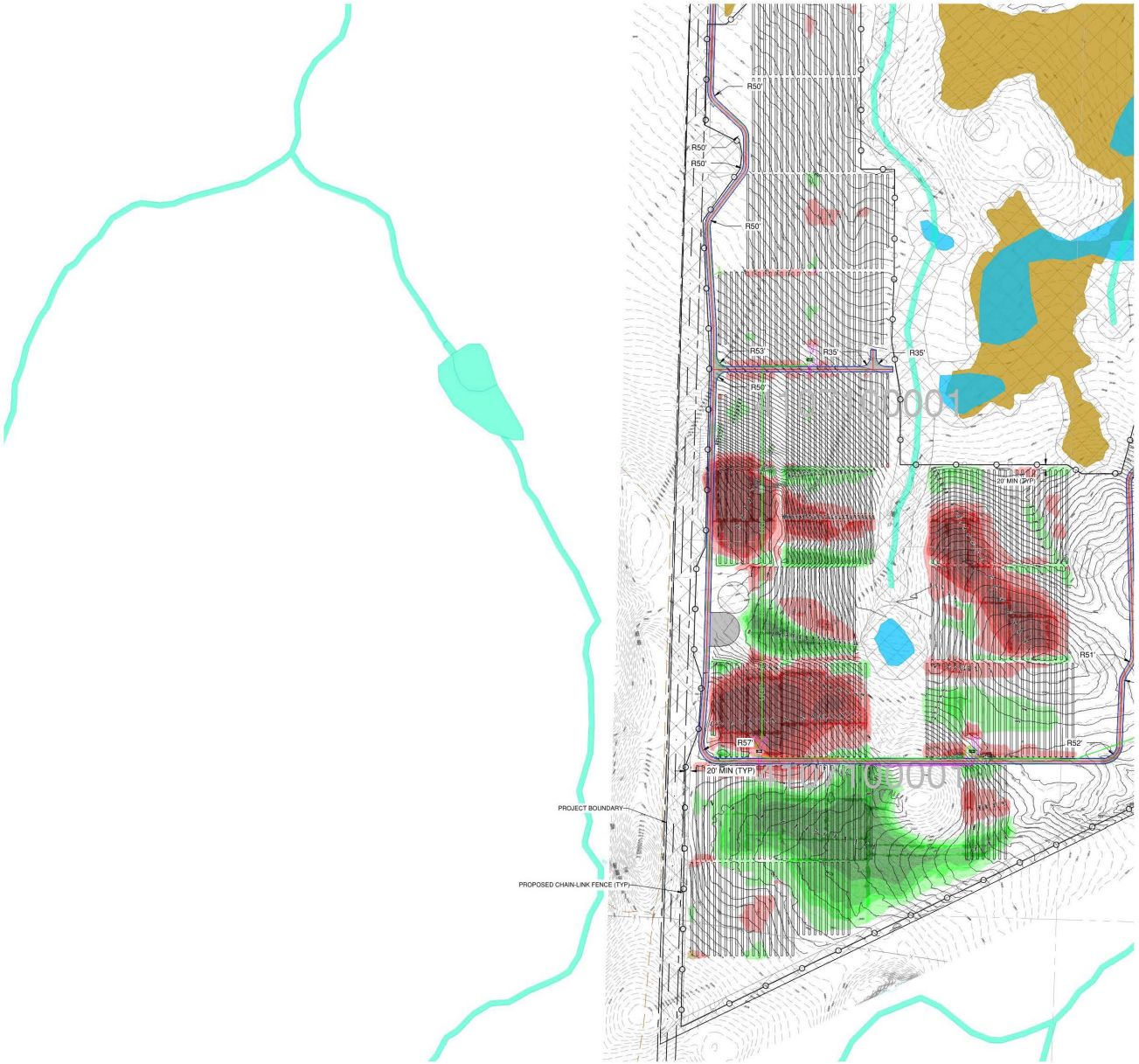
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 6

DRAWING NUMBER: WSS-C-553-07

REVISION: 2



LEGEND

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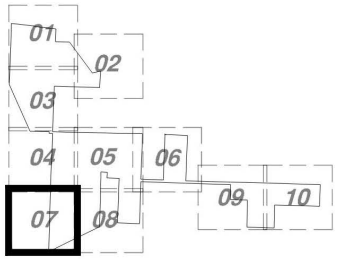
PROPOSED FILL (0.1' - 1')	
PROPOSED FILL (1' - 1.5')	
PROPOSED FILL (1.5' - 3')	
PROPOSED FILL (3' - 8')	



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 100 200 400

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 7

DRAWING NUMBER: WSS-C-553-08

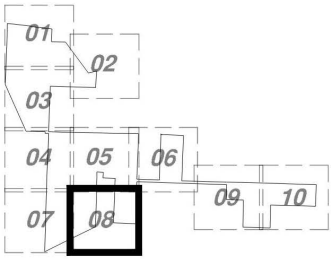
REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED EXISTING ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED CHAIN-LINK FENCE
- PROPOSED MV COLLECTION SYSTEM
- PROPOSED OVERHEAD POWER
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING CONTOUR
- POST CONSTRUCTION CONTOUR
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA
- PROPOSED LOW WATER CROSSINGS
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE

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

PROPOSED CUT (3' - 8')	
PROPOSED CUT (1.5' - 3')	
PROPOSED CUT (1' - 1.5')	
PROPOSED CUT (0.1' - 1')	
PROPOSED FILL (0.1' - 1')	
PROPOSED FILL (1' - 1.5')	
PROPOSED FILL (1.5' - 3')	
PROPOSED FILL (3' - 8')	



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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nationalgrid renewables
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2500 CO RD 42 W,
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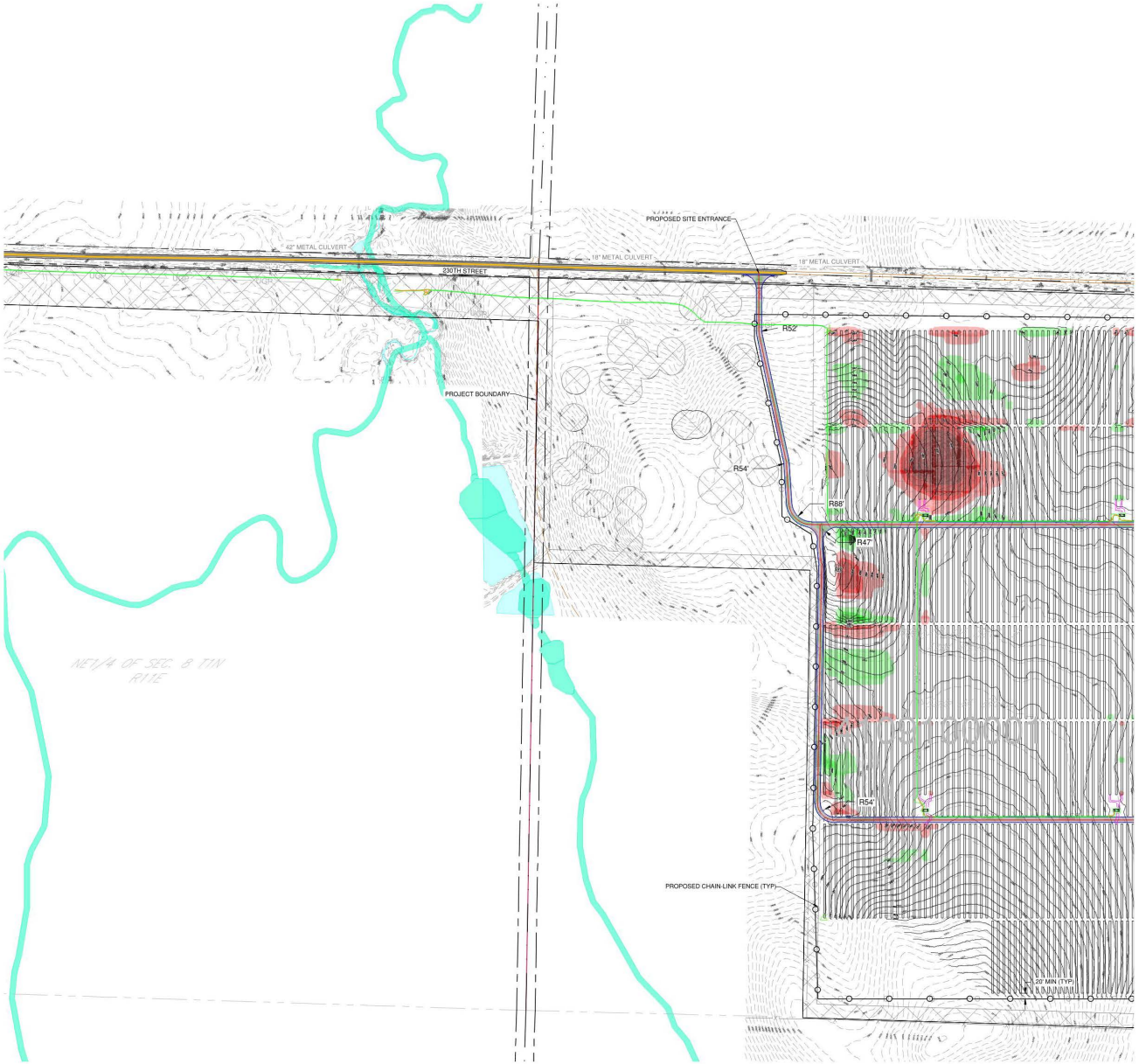
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 8

DRAWING NUMBER: WSS-C-553-09

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED EXISTING ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED CHAIN-LINK FENCE
- PROPOSED MV COLLECTION SYSTEM
- PROPOSED OVERHEAD POWER
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- 2500' EXISTING CONTOUR
- 2500' POST CONSTRUCTION CONTOUR
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
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- VEGETATION
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- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA
- PROPOSED LOW WATER CROSSINGS
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- POST CONSTRUCTION ROAD EDGE/CENTERLINE
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- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE

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

PROPOSED CUT (3' - 8')	
PROPOSED CUT (1.5' - 3')	
PROPOSED CUT (1' - 1.5')	
PROPOSED CUT (0.1' - 1')	
PROPOSED FILL (0.1' - 1')	
PROPOSED FILL (1' - 1.5')	
PROPOSED FILL (1.5' - 3')	
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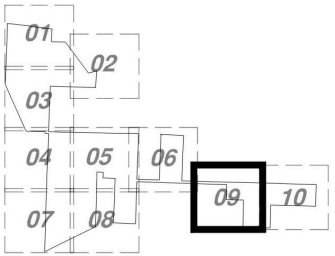

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
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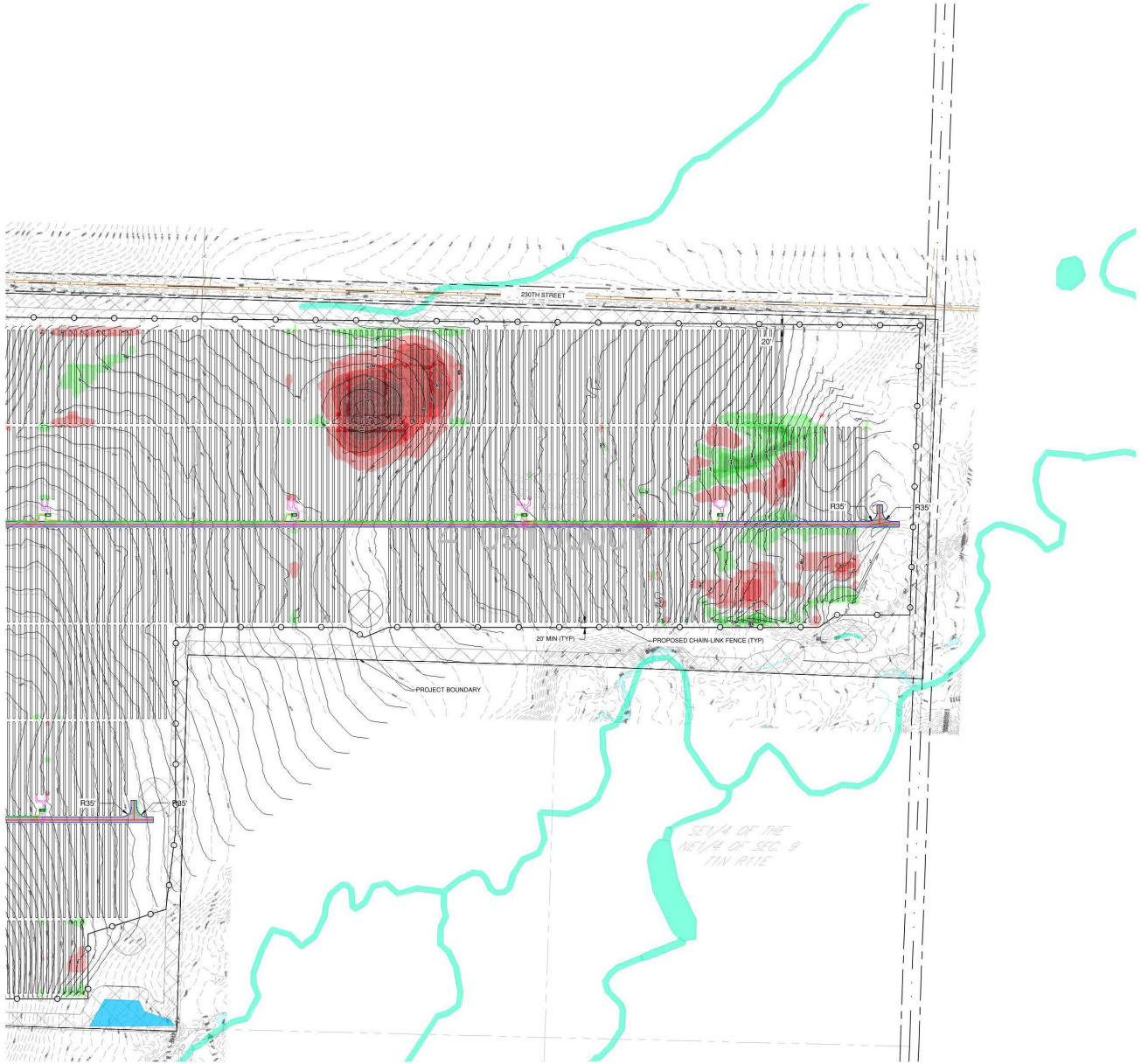
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 9

DRAWING NUMBER: WSS-C-553-10

REVISION: 2



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED EXISTING ROAD UPGRADE
- PROPOSED POWER STATION
- PROPOSED CHAIN-LINK FENCE
- PROPOSED MV COLLECTION SYSTEM
- PROPOSED OVERHEAD POWER
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING CONTOUR
- POST CONSTRUCTION CONTOUR
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
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- WETLAND (NWI)
- PROJECT FACILITIES
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NOTE: ELECTRICAL MV COLLEVTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.

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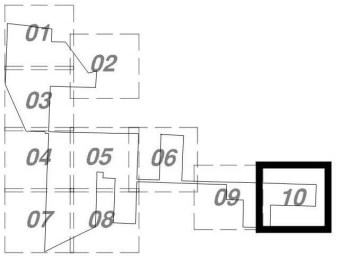
PROPOSED FILL (1' - 1.5')	
PROPOSED FILL (1.5' - 3')	
PROPOSED FILL (3' - 8')	



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
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Ames Construction

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BURNSVILLE, MN 55337

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0 100 200 400

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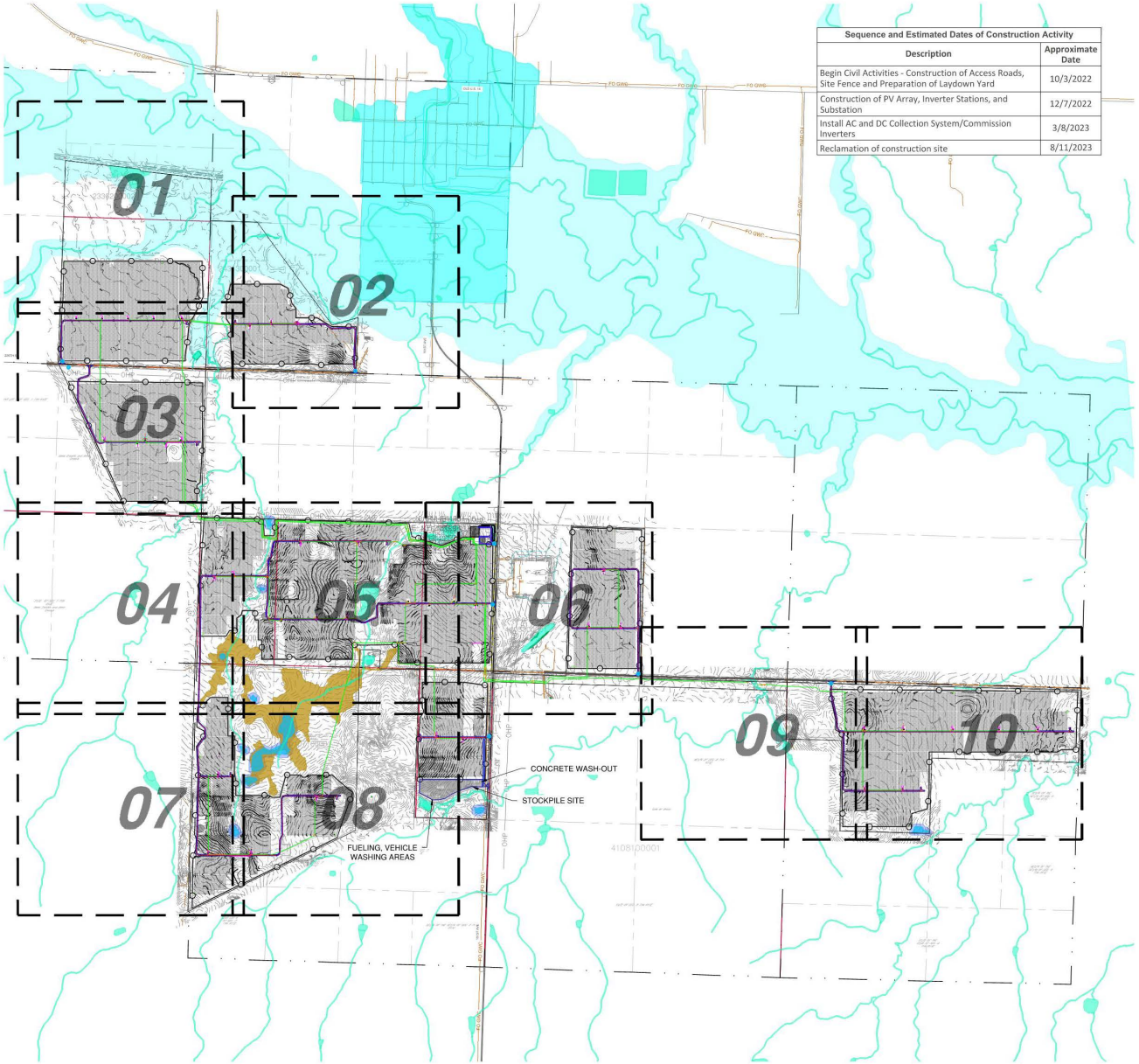
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SITE GRADING PLAN 10

DRAWING NUMBER: WSS-C-553-11

REVISION: 1



Sequence and Estimated Dates of Construction Activity	
Description	**Approximate Date**
Begin Civil Activities - Construction of Access Roads, Site Fence and Preparation of Laydown Yard	10/3/2022
Construction of PV Array, Inverter Stations, and Substation	12/7/2022
Install AC and DC Collection System/Commission Inverters	3/8/2023
Reclamation of construction site	8/11/2023

LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED FENCE
- PROPOSED PV TABLES
- PROPOSED CONTOUR
- PROPOSED COLLECTION LINE
- PROPOSED GRADING LIMITS (SEE NOTE 4)
- SEED MIX
- ROCK CONSTRUCTION ENTRANCE
- LOW WATER CROSSING
- O&M FIRE BREAK
- TRIPLE STACK FIBER ROLLS
- DIRECTION OF FLOW
- PROPOSED CULVERT
- EXISTING POWER POLE
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
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- FEMA FLOODPLAINS
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- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA
- POST CONSTRUCTION FENCE
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- POST CONSTRUCTION MV LINE
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- POST CONSTRUCTION FO LINE

NOTES:
1. SEED MIX PER VEGETATION MANAGEMENT PLAN DATED 04/03/2020.
2. PERIMETER CONTROLS TO BE CHOSEN PER CONTRACTOR PREFERENCE FOR SEDIMENT CAPTURE ON SITE. ACCEPTABLE PERIMETER CONTROLS LISTED BELOW ARE IN ORDER OF INCREASING EFFECTIVENESS. A COMBINATION OF THE BMPS LISTED BELOW MAY BE REQUIRED IN AREAS OBSERVED TO EXPERIENCE HIGHER THAN EXPECTED SEDIMENTATION.
   2.1. SILT FENCE (DETAIL ECD-501)
   2.2. SILT WORM OR EQUIVALENT (DETAIL ECD-523.1 & ECD-523.2)
   2.3. VEGETATED TOP SOIL BERMS (DETAIL ECD-522)
   2.4. ADD FLOCCULANTS UPSTREAM PER DETAIL ECD-524 AS NEEDED.
3. SEE CONSTRUCTION NOTES FOR DUST CONTROL/SOIL STABILITY FOR AREAS OF EXPOSED SOIL.
4. PLEASE NOTE THAT THE PRESENCE OF LARGE AREAS OF EXPOSED SOILS, ESPECIALLY CLAY SOILS, REDUCE THE EFFECTIVENESS OF THE ABOVE PERIMETER CONTROLS IF NOT PROPERLY MAINTAINED DURING CONSTRUCTION (SEE SWPPP REPORT FOR MAINTENANCE SCHEDULE AND PROCEDURES).
5. LARGE AREAS OF BARE SOIL EXPOSURE SHALL BE LIMITED AND STABILIZED WITH SEEDING AND MULCH APPLICATION PROMPTLY AFTER DISTURBANCE.
6. TEMPORARY SWALES AND BASINS ARE OFTEN LOCATED ADJACENT TO EXISTING STREAMS AND WETLANDS. DISTURBANCES MUST NOT ENCROACH ON THE 25FT BUFFER PROPOSED AT THE STREAM AND WETLAND TOP OF BANK.
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.

EROSION AND SEDIMENTATION CONTROL CONSTRUCTION PHASING			
DESCRIPTION	INITIAL CONSTRUCTION	INTERIM CONSTRUCTION	PERMANENT STABILIZATION
CONSTRUCTION ENTRANCE	X	X	
SILT FENCE	X	X	
DEEP TILLAGE		X	X
FIBER ROLL		X	
MODIFIED SEDIMENT TRAP W/ TRIPLE-STACKED FIBER ROLLS	X	X	
ROCK CHECK DAM	X	X	X
SEEDING - DEEP ROOTING REVEGETATION		X	X
RAPID VEGETATION	X		

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
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nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

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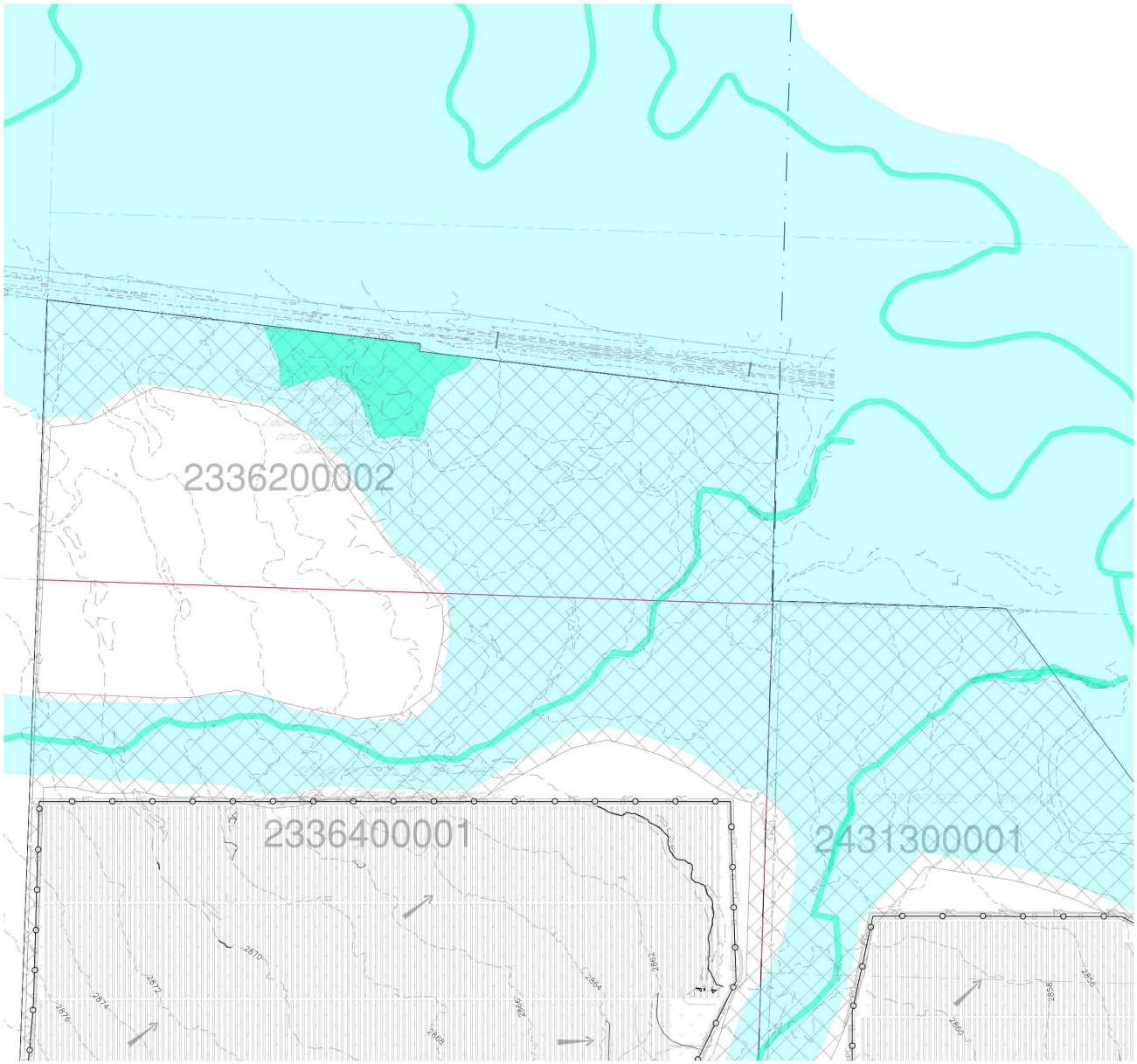
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

OVERALL EROSION AND SEDIMENT CONTROL PLAN INDEX

DRAWING NUMBER: WSS-C-522-01
REVISION: 2



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED FENCE
- PROPOSED PV TABLES
- PROPOSED CONTOUR
- PROPOSED COLLECTION LINE
- PROPOSED GRADING LIMITS (SEE NOTE 4)
- SEED MIX
- ROCK CONSTRUCTION ENTRANCE
- LOW WATER CROSSING
- O&M FIRE BREAK
- TRIPLE STACK FIBER ROLLS
- DIRECTION OF FLOW
- PROPOSED CULVERT
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NOTES:

1. SEED MIX PER VEGETATION MANAGEMENT PLAN DATED 04/03/2020.
2. PERIMETER CONTROLS TO BE CHOSEN PER CONTRACTOR PREFERENCE FOR SEDIMENT CAPTURE ON SITE. ACCEPTABLE PERIMETER CONTROLS LISTED BELOW ARE IN ORDER OF INCREASING EFFECTIVENESS. A COMBINATION OF THE BMPS LISTED BELOW MAY BE REQUIRED IN AREAS OBSERVED TO EXPERIENCE HIGHER THAN EXPECTED SEDIMENTATION.
   - 2.1. SILT FENCE (DETAIL ECD-501)
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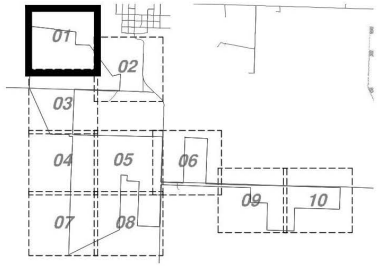
   - 2.3. VEGETATED TOP SOIL BERMS (DETAIL ECD-522)
   - 2.4. ADD FLOCCULANTS UPSTREAM PER DETAIL ECD-524 AS NEEDED.
3. SEE CONSTRUCTION NOTES FOR DUST CONTROL/SOIL STABILITY FOR AREAS OF EXPOSED SOIL.
4. PLEASE NOTE THAT THE PRESENCE OF LARGE AREAS OF EXPOSED SOILS, ESPECIALLY CLAY SOILS, REDUCE THE EFFECTIVENESS OF THE ABOVE PERIMETER CONTROLS IF NOT PROPERLY MAINTAINED DURING CONSTRUCTION (SEE SWPPP REPORT FOR MAINTENANCE SCHEDULE AND PROCEDURES).
5. LARGE AREAS OF BARE SOIL EXPOSURE SHALL BE LIMITED AND STABILIZED WITH SEEDING AND MULCH APPLICATION PROMPTLY AFTER DISTURBANCE.
6. TEMPORARY SWALES AND BASINS ARE OFTEN LOCATED ADJACENT TO EXISTING STREAMS AND WETLANDS. DISTURBANCES MUST NOT ENCROACH ON THE 25FT BUFFER PROPOSED AT THE STREAM AND WETLAND TOP OF BANK.
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



KEYMAP

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PENNINGTON COUNTY, SOUTH DAKOTA

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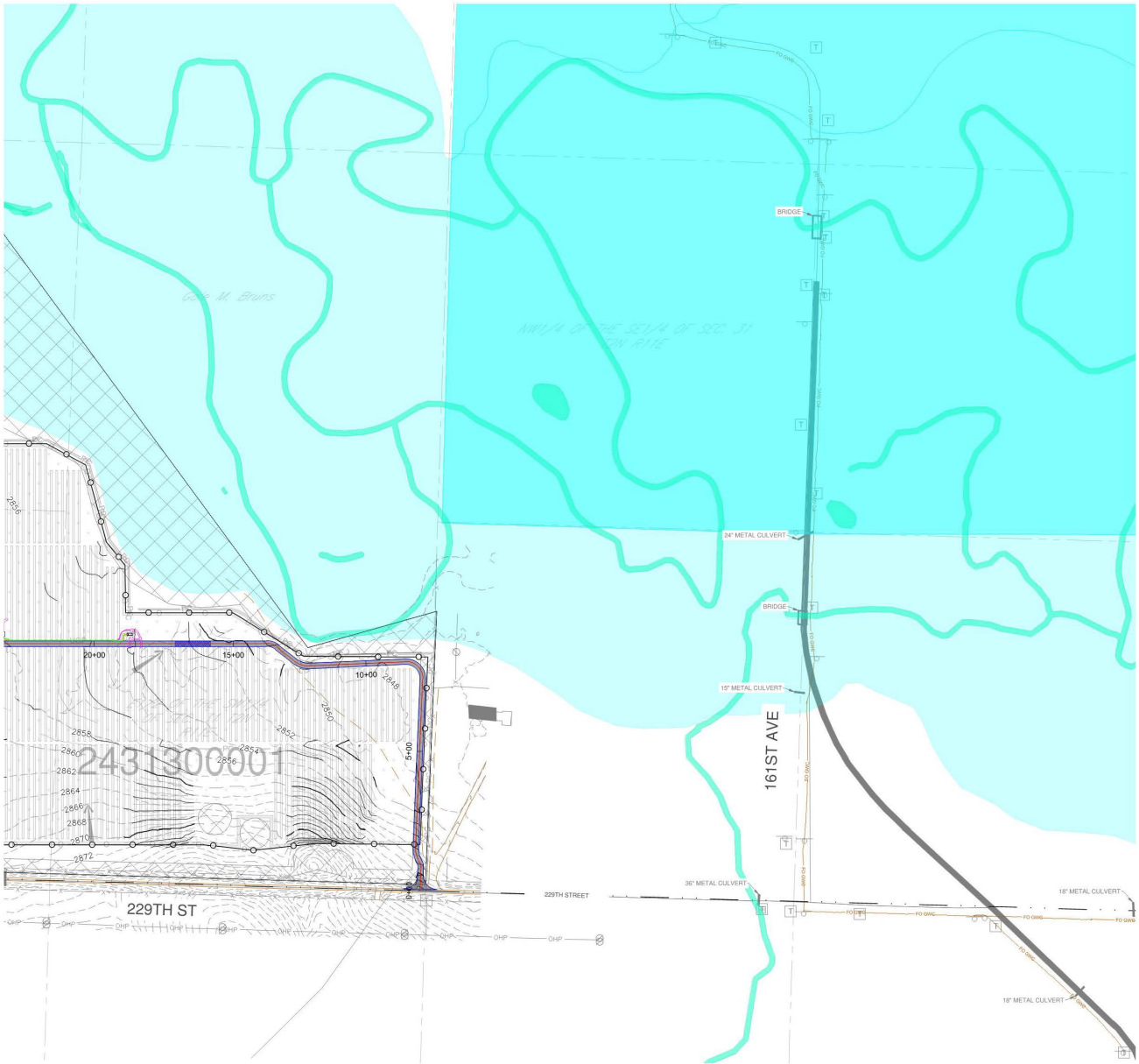
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 1

DRAWING NUMBER: WSS-C-522-02
REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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- PROPOSED CONTOUR
- PROPOSED COLLECTION LINE
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- SEED MIX
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NOTES:

1. SEED MIX PER VEGETATION MANAGEMENT PLAN DATED 04/03/2020.
2. PERIMETER CONTROLS TO BE CHOSEN PER CONTRACTOR PREFERENCE FOR SEDIMENT CAPTURE ON SITE. ACCEPTABLE PERIMETER CONTROLS LISTED BELOW ARE IN ORDER OF INCREASING EFFECTIVENESS. A COMBINATION OF THE BMPS LISTED BELOW MAY BE REQUIRED IN AREAS OBSERVED TO EXPERIENCE HIGHER THAN EXPECTED SEDIMENTATION.
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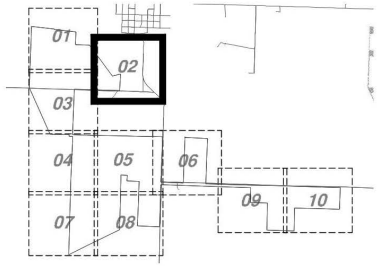
6. TEMPORARY SWALES AND BASINS ARE OFTEN LOCATED ADJACENT TO EXISTING STREAMS AND WETLANDS. DISTURBANCES MUST NOT ENCROACH ON THE 25FT BUFFER PROPOSED AT THE STREAM AND WETLAND TOP OF BANK.
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



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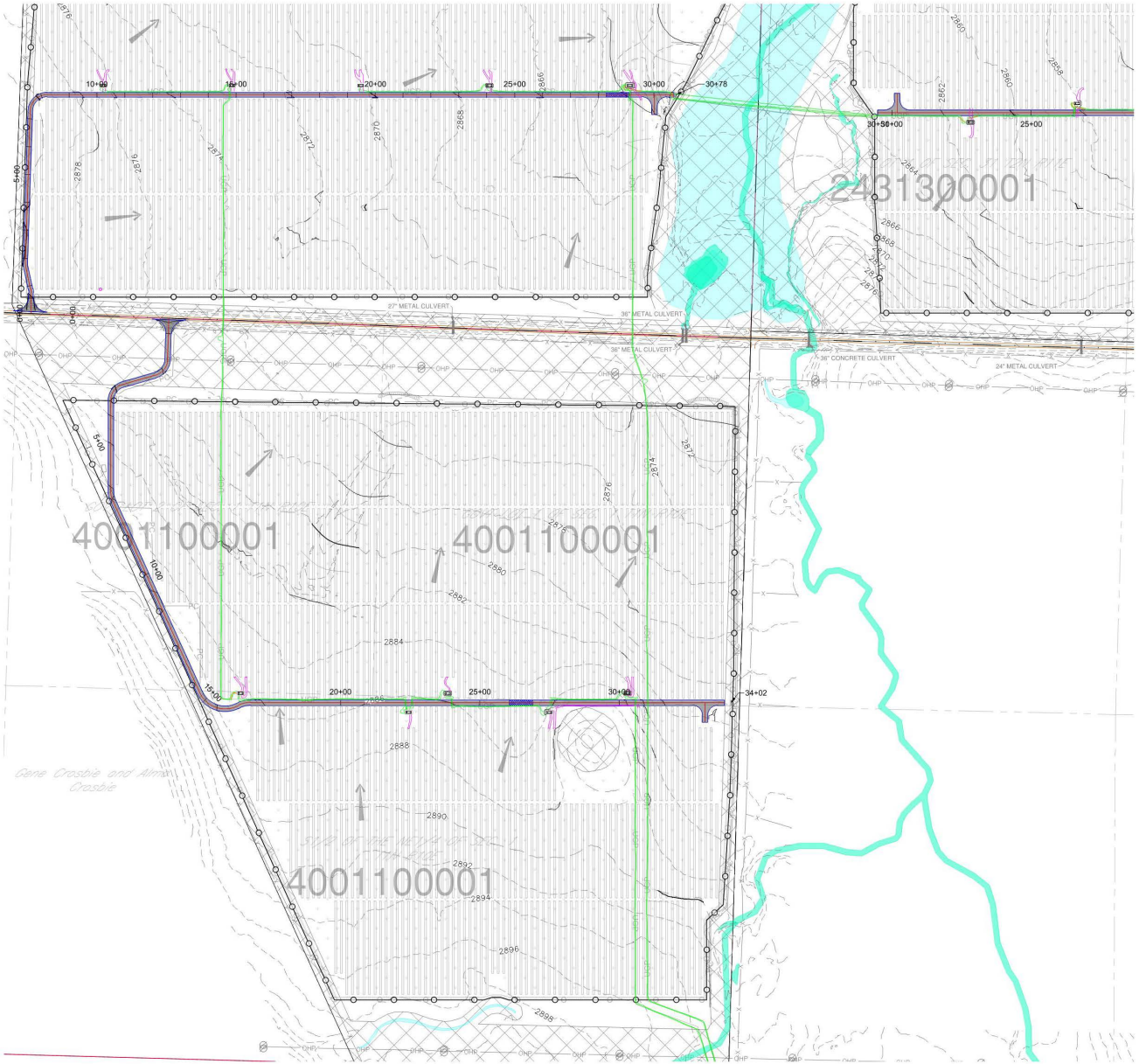
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 2

DRAWING NUMBER: WSS-C-522-03

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED FENCE
- PROPOSED PV TABLES
- PROPOSED CONTOUR
- PROPOSED COLLECTION LINE
- PROPOSED GRADING LIMITS (SEE NOTE 4)
- SEED MIX
- ROCK CONSTRUCTION ENTRANCE
- LOW WATER CROSSING
- O&M FIRE BREAK
- TRIPLE STACK FIBER ROLLS
- DIRECTION OF FLOW
- PROPOSED CULVERT
- EXISTING POWER POLE
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE

NOTES:

1. SEED MIX PER VEGETATION MANAGEMENT PLAN DATED 04/03/2020.
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   - 2.1. SILT FENCE (DETAIL ECD-501)
   - 2.2. SILT WORM OR EQUIVALENT (DETAIL ECD-523.1 & ECD-523.2)
   - 2.3. VEGETATED TOP SOIL BERMS (DETAIL ECD-522)
   - 2.4. ADD FLOCCULANTS UPSTREAM PER DETAIL ECD-524 AS NEEDED.
3. SEE CONSTRUCTION NOTES FOR DUST CONTROL/SOIL STABILITY FOR AREAS OF EXPOSED SOIL.
4. PLEASE NOTE THAT THE PRESENCE OF LARGE AREAS OF EXPOSED SOILS, ESPECIALLY CLAY SOILS, REDUCE THE EFFECTIVENESS OF THE ABOVE PERIMETER CONTROLS IF NOT PROPERLY MAINTAINED DURING CONSTRUCTION (SEE SWPPP REPORT FOR MAINTENANCE SCHEDULE AND PROCEDURES).
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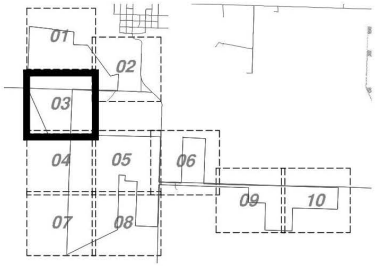
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 100 200 400

NSRS 2011 South Dakota State Planes, South Zone, US Foot

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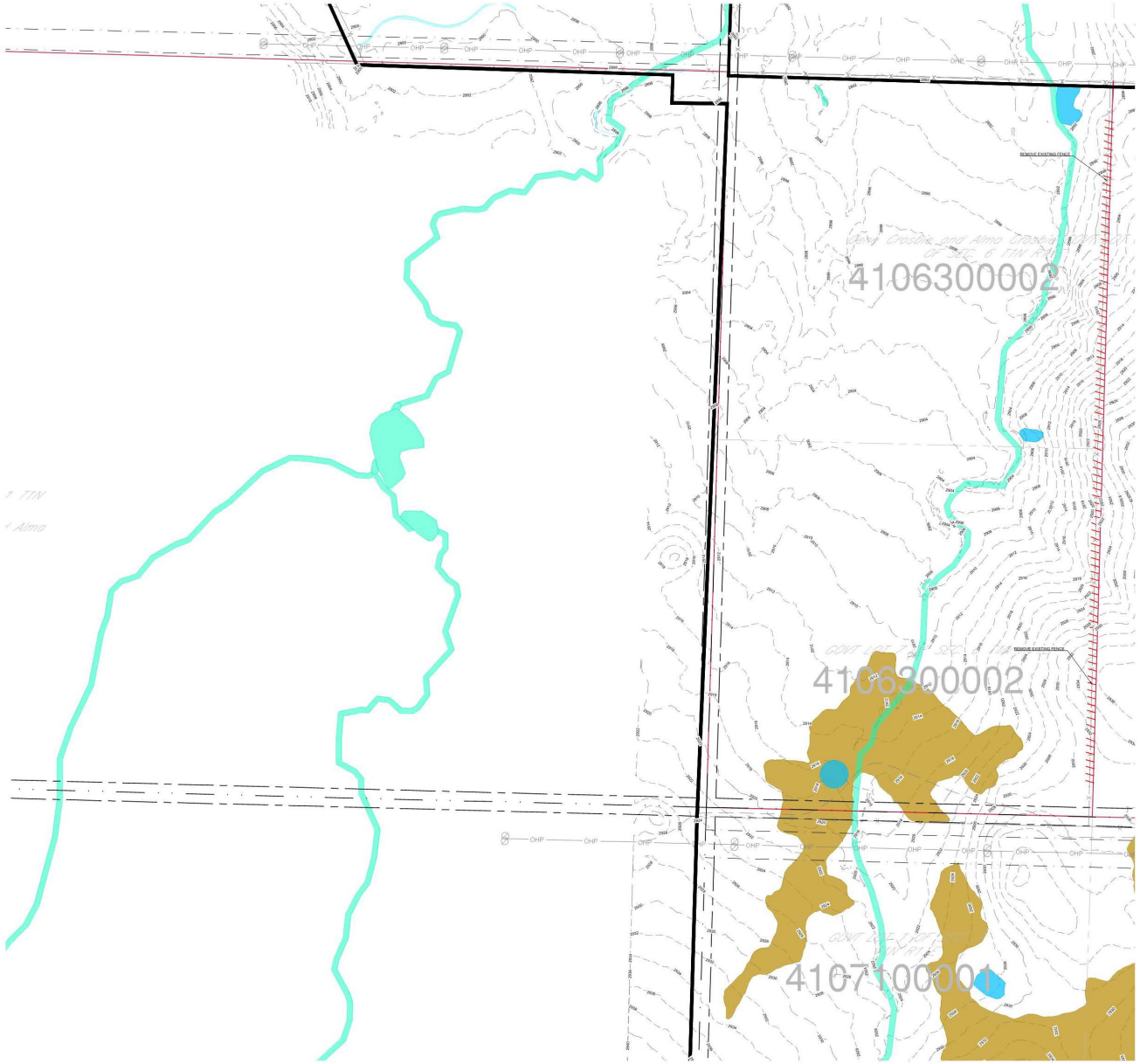
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 3

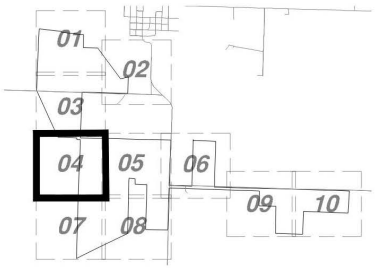
DRAWING NUMBER: WSS-C-522-04

REVISION: 1



LEGEND

- PROPOSED DEMOLITION
- EXISTING CONTOUR
- PROJECT BOUNDARY
- PROPERTY LINE
- PROPERTY/SECTION LINE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- EXISTING OVERHEAD POWER
- EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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nationalgrid renewables
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BLOOMINGTON, MN 55437

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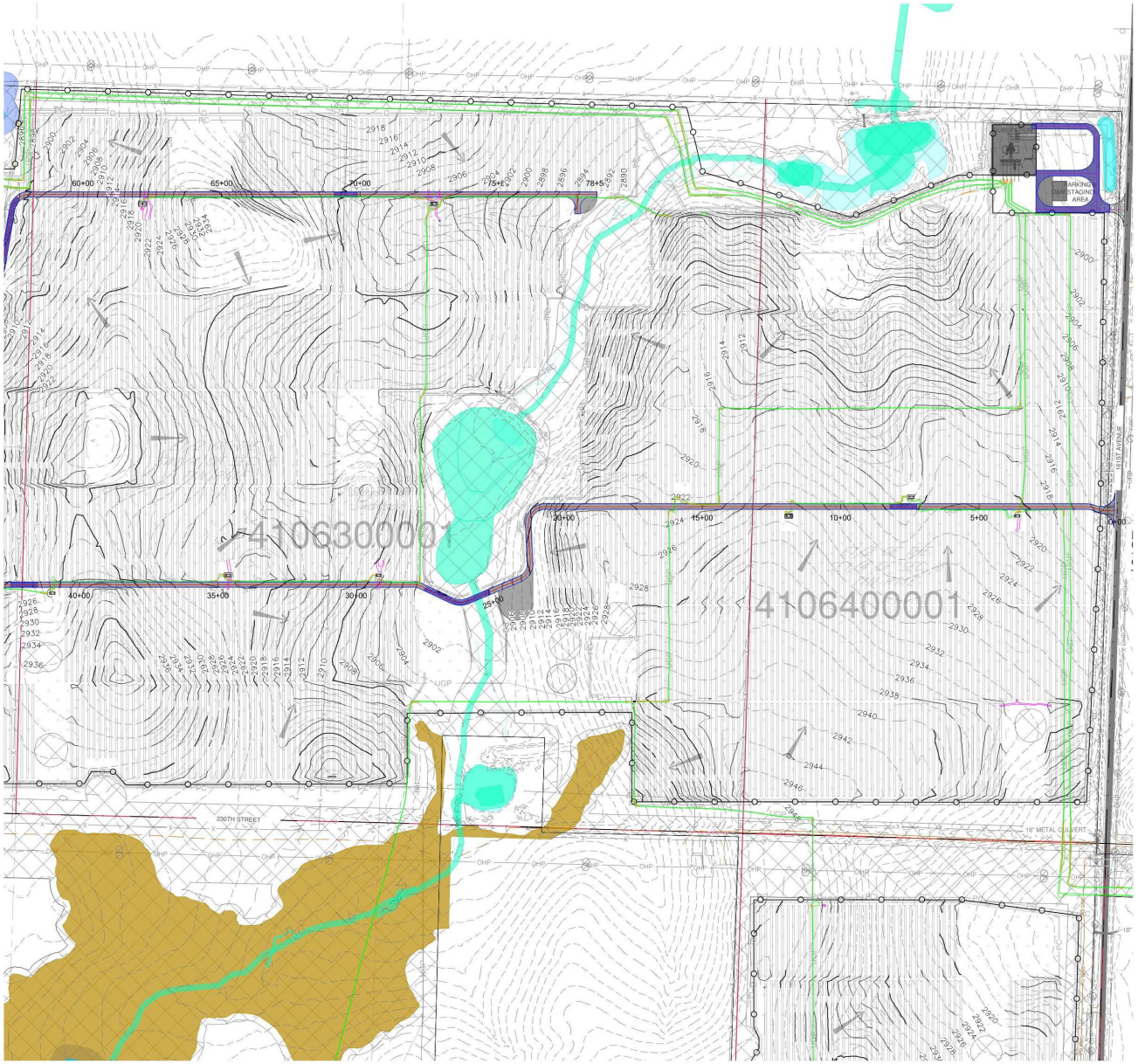
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EXISTING CONDITIONS AND DEMOLITION PLAN 4

DRAWING NUMBER: WSS-C-550-04

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
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- PROPOSED GRADING LIMITS (SEE NOTE 4)
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NOTES:

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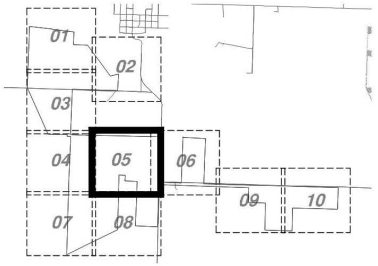
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
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1	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

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0 100 200 400

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 5

DRAWING NUMBER: WSS-C-522-06

REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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- PROPOSED CULVERT
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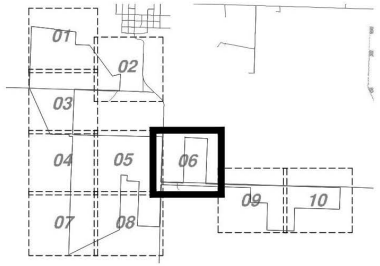

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/26/2024	RECORD DRAWINGS	BMB
2	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 100 200 400

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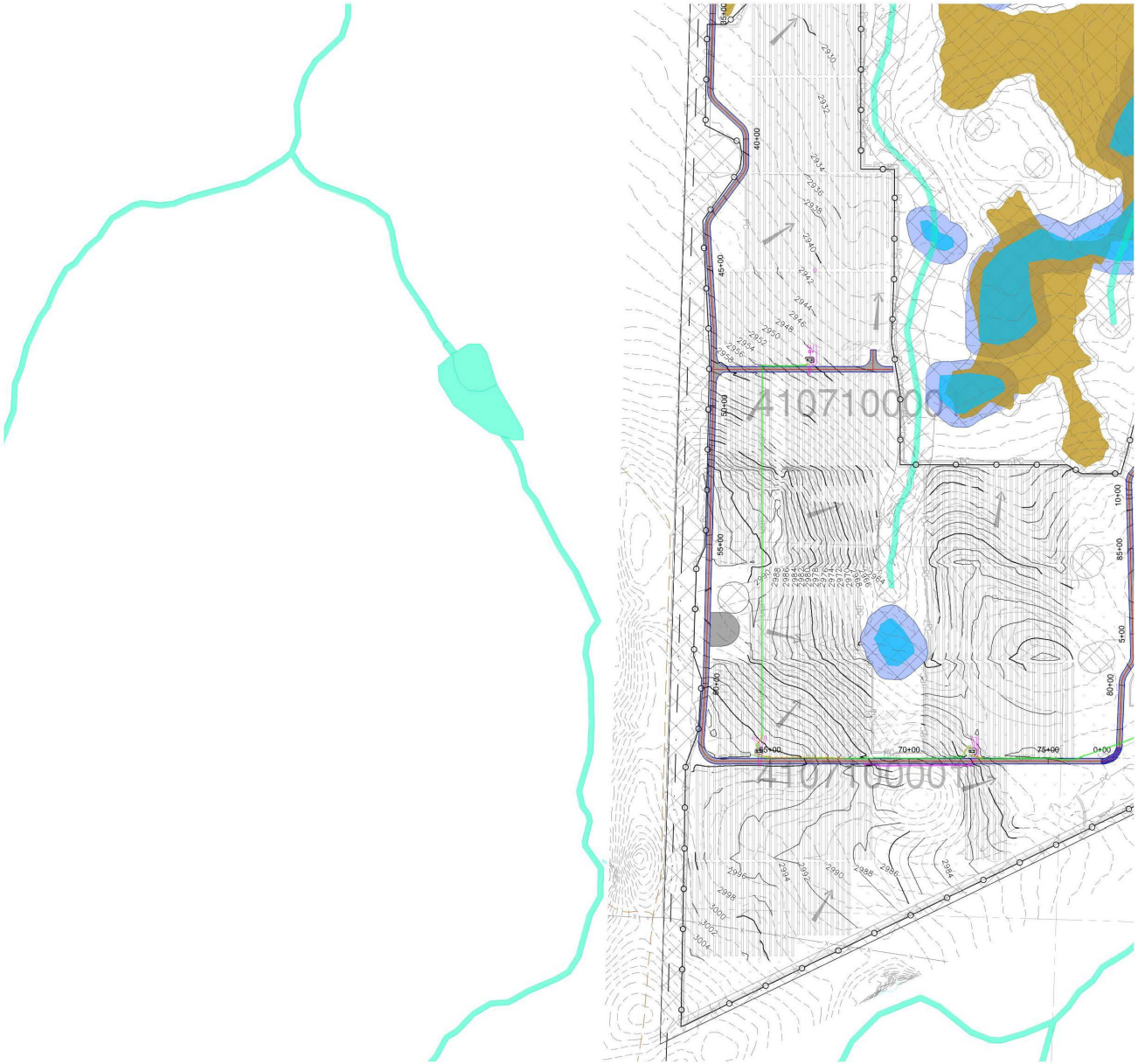
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 6

DRAWING NUMBER: WSS-C-522-07

REVISION: 2



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED FENCE
- PROPOSED PV TABLES
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- PROPOSED COLLECTION LINE
- PROPOSED GRADING LIMITS (SEE NOTE 4)
- SEED MIX
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NOTES:

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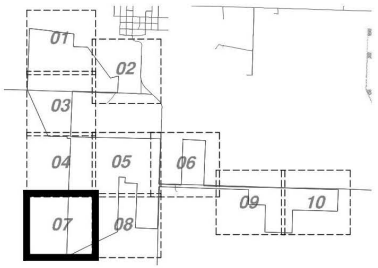

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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nationalgrid renewables
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BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 100 200 400

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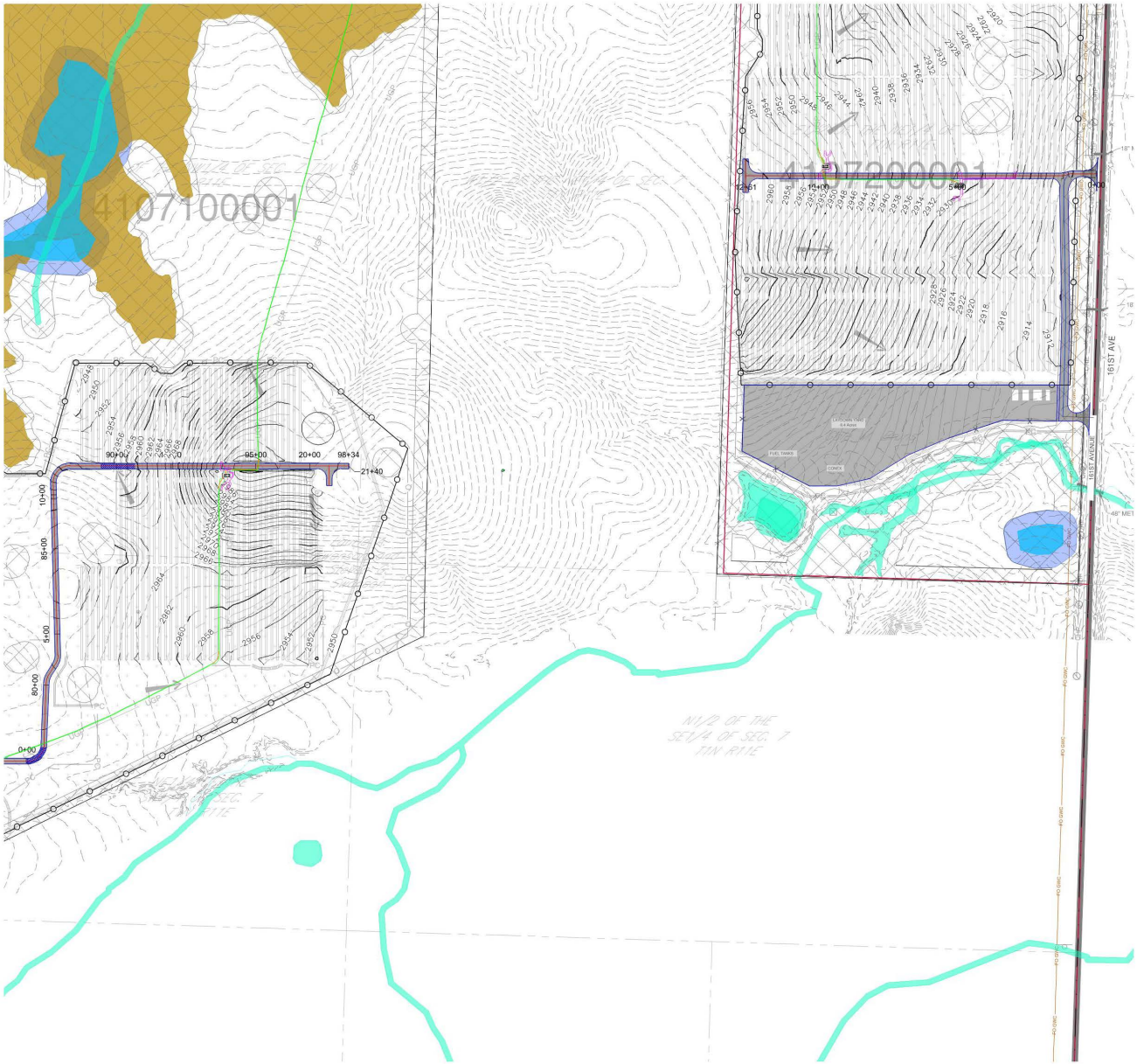
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 7

DRAWING NUMBER: WSS-C-522-08

REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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NOTES:
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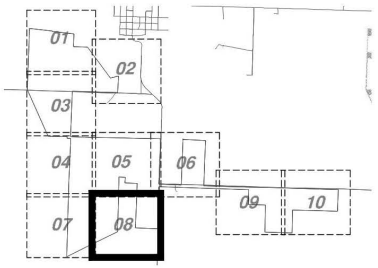

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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N W E S

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 8

DRAWING NUMBER: WSS-C-522-09
REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
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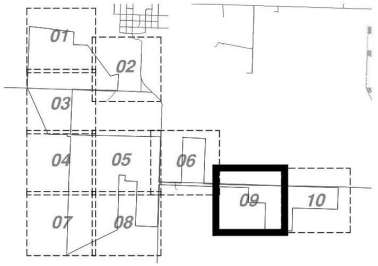
   - 2.1. SILT FENCE (DETAIL ECD-501)
   - 2.2. SILT WORM OR EQUIVALENT (DETAIL ECD-523.1 & ECD-523.2)
   - 2.3. VEGETATED TOP SOIL BERMS (DETAIL ECD-522)
   - 2.4. ADD FLOCCULANTS UPSTREAM PER DETAIL ECD-524 AS NEEDED.
3. SEE CONSTRUCTION NOTES FOR DUST CONTROL/SOIL STABILITY FOR AREAS OF EXPOSED SOIL.
4. PLEASE NOTE THAT THE PRESENCE OF LARGE AREAS OF EXPOSED SOILS, ESPECIALLY CLAY SOILS, REDUCE THE EFFECTIVENESS OF THE ABOVE PERIMETER CONTROLS IF NOT PROPERLY MAINTAINED DURING CONSTRUCTION (SEE SWPPP REPORT FOR MAINTENANCE SCHEDULE AND PROCEDURES).
5. LARGE AREAS OF BARE SOIL EXPOSURE SHALL BE LIMITED AND STABILIZED WITH SEEDING AND MULCH APPLICATION PROMPTLY AFTER DISTURBANCE.
6. TEMPORARY SWALES AND BASINS ARE OFTEN LOCATED ADJACENT TO EXISTING STREAMS AND WETLANDS. DISTURBANCES MUST NOT ENCROACH ON THE 25FT BUFFER PROPOSED AT THE STREAM AND WETLAND TOP OF BANK.
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/26/2024	RECORD DRAWINGS	BMB
2	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 100 200 400

NSRS 2011 South Dakota State Planes, South Zone, US Foot

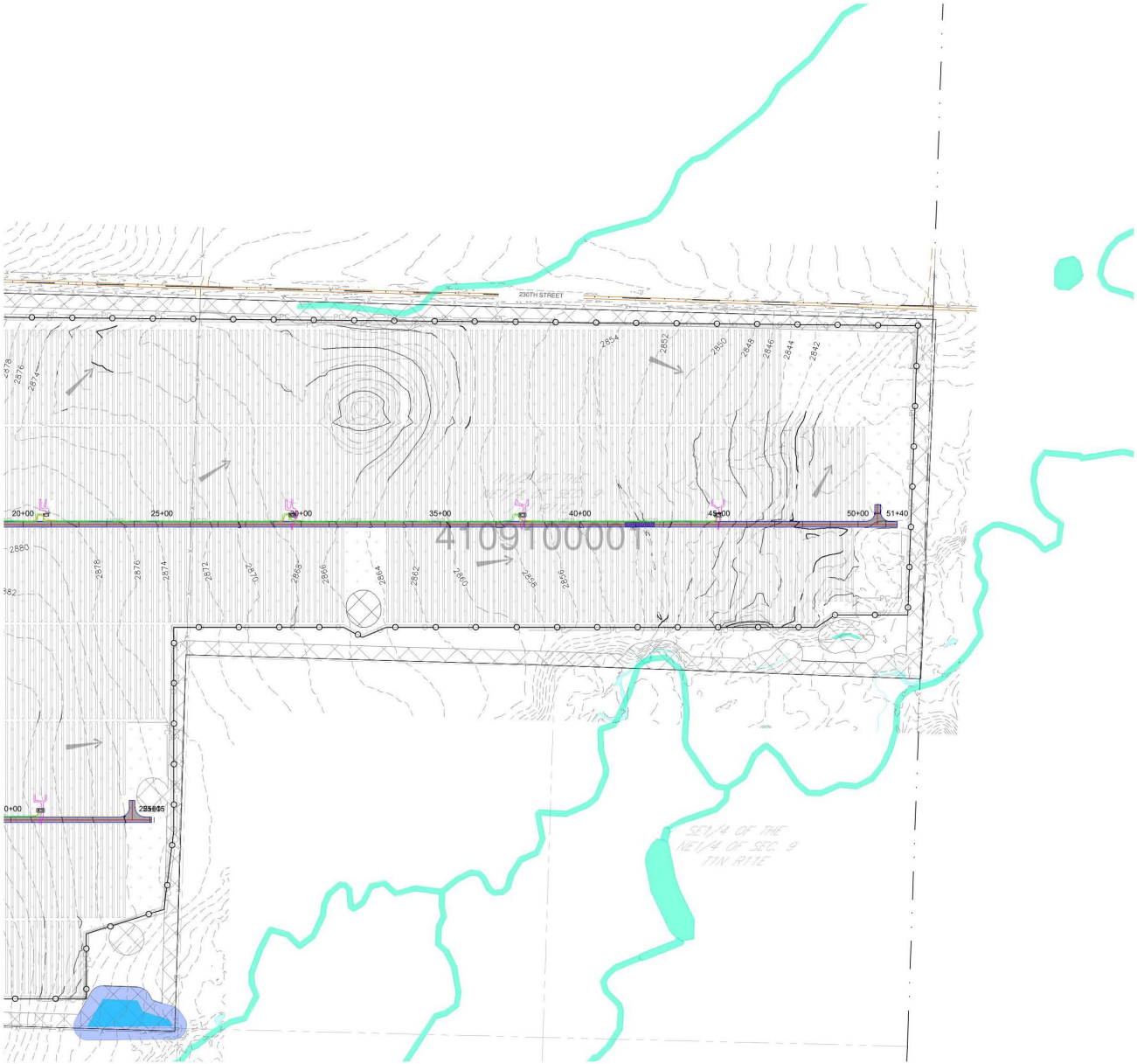
Ulteig
We listen. We solve.™

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 9

DRAWING NUMBER: WSS-C-522-10

REVISION: 2



LEGEND

- PROJECT BOUNDARY
- PERIMETER CONTROL (SEE NOTE 2)
- EXISTING CONTOUR
- EXISTING FIBER OPTIC
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED ROAD UPGRADE
- PROPOSED FENCE
- PROPOSED PV TABLES
- PROPOSED CONTOUR
- PROPOSED COLLECTION LINE
- PROPOSED GRADING LIMITS (SEE NOTE 4)
- SEED MIX
- ROCK CONSTRUCTION ENTRANCE
- LOW WATER CROSSING
- O&M FIRE BREAK
- TRIPLE STACK FIBER ROLLS
- DIRECTION OF FLOW
- PROPOSED CULVERT
- EXISTING POWER POLE
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND (NWI)
- PROJECT FACILITIES
- NON-BUILDABLE AREA
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE

NOTES:

1. SEED MIX PER VEGETATION MANAGEMENT PLAN DATED 04/03/2020.
2. PERIMETER CONTROLS TO BE CHOSEN PER CONTRACTOR PREFERENCE FOR SEDIMENT CAPTURE ON SITE. ACCEPTABLE PERIMETER CONTROLS LISTED BELOW ARE IN ORDER OF INCREASING EFFECTIVENESS. A COMBINATION OF THE BMPS LISTED BELOW MAY BE REQUIRED IN AREAS OBSERVED TO EXPERIENCE HIGHER THAN EXPECTED SEDIMENTATION.
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   2.3. VEGETATED TOP SOIL BERMS (DETAIL ECD-522)
   2.4. ADD FLOCCULANTS UPSTREAM PER DETAIL ECD-524 AS NEEDED.
3. SEE CONSTRUCTION NOTES FOR DUST CONTROL/SOIL STABILITY FOR AREAS OF EXPOSED SOIL.
4. PLEASE NOTE THAT THE PRESENCE OF LARGE AREAS OF EXPOSED SOILS, ESPECIALLY CLAY SOILS, REDUCE THE EFFECTIVENESS OF THE ABOVE PERIMETER CONTROLS IF NOT PROPERLY MAINTAINED DURING CONSTRUCTION (SEE SWPPP REPORT FOR MAINTENANCE SCHEDULE AND PROCEDURES).
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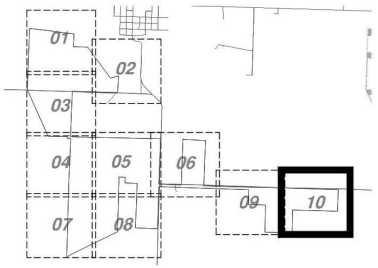
7. SEE SECTION OF 3.18 OF STORM WATER POLLUTION PREVENTION FOR WINTER STABILIZATION.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	05/23/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
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Ames Construction

2500 CO RD 42 W,
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N W E S

0 100 200 400

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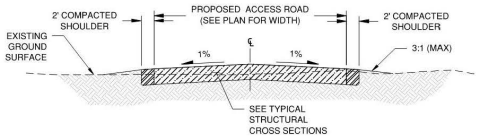
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION AND SEDIMENT CONTROL PLAN 10

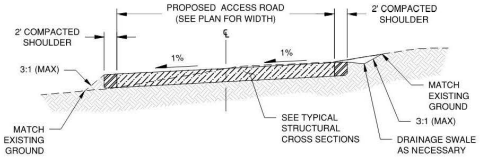
DRAWING NUMBER: WSS-C-522-11

REVISION: 1

DETAIL # ACR-101



CROWNED

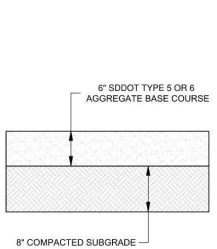


CROSS SLOPED

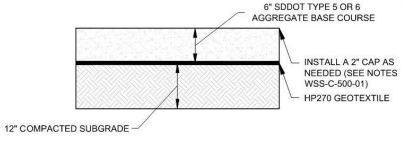
NOTES:
1. ROADS SHALL BE CONSTRUCTED WITH 1% (MIN.) - 2% (MAX.) CROWN OR A 0.5% (MIN.) TO 4% (MAX.) CROSS SLOPE, OR AS SHOWN ON THE PLANS IN ORDER TO MAINTAIN SITE DRAINAGE.
2. UNLESS SHOWN ON THE PLANS, THE CONTRACTOR SHALL MAKE THE DETERMINATION AS TO WHICH TYPICAL SECTION SHALL BE USED FOR CONSTRUCTION.
3. SLOPES SHOWN ARE IN HORIZONTAL TO VERTICAL (H:V) FORMAT.
4. SLOPES SHOWN ARE TYPICAL. SOME ROAD LOCATIONS MAY REQUIRE VARIATIONS IN SLOPE. SEE PLANS.

TYPICAL ACCESS ROAD

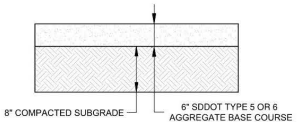
DETAIL # ACR-104



INVERTER PAD



ACCESS ROAD

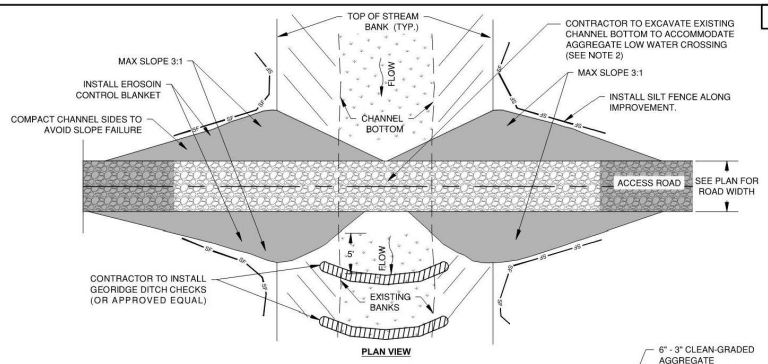


LAYDOWN YARD

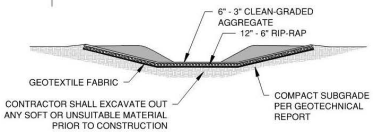
NOTES:
1. TYPICAL SECTIONS SHOWN ARE BASED ON NORMAL FIELD CONDITIONS, ACTUAL FIELD CONDITIONS MAY REQUIRE ADDITIONAL AGGREGATE OR CHANGES TO THE SUBGRADE.
2. CONTRACTOR SHALL MAINTAIN THE TYPICAL SECTIONS AND THE AGGREGATE SURFACES THROUGHOUT THE LIFE OF THE PROJECT.
3. DEPENDING ON ACTUAL SUBGRADE CONDITIONS ENCOUNTERED AND EXCESSIVE GRAVEL SURFACE RUTTING, ADDITIONAL GRAVEL THICKNESS OR OTHER SUBGRADE IMPROVEMENTS MAY BE REQUIRED AS DIRECTED BY ENGINEER.
4. CONTRACTOR SHALL ENSURE THAT ALL STRUCTURAL FILL SECTIONS FOR THE PROJECT MEETS OR EXCEEDS BEARING CAPACITY REQUIREMENTS FOR SOLAR COMPONENT DELIVERY.
5. ACCESS ROADS WILL NEED TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. A 2" CAP WILL NEED TO BE INSTALLED IF THERE IS RUTTING THAT IS OVER GREATER THAN 2".

TYPICAL STRUCTURAL CROSS SECTIONS

DETAIL # ACR-120



PLAN VIEW



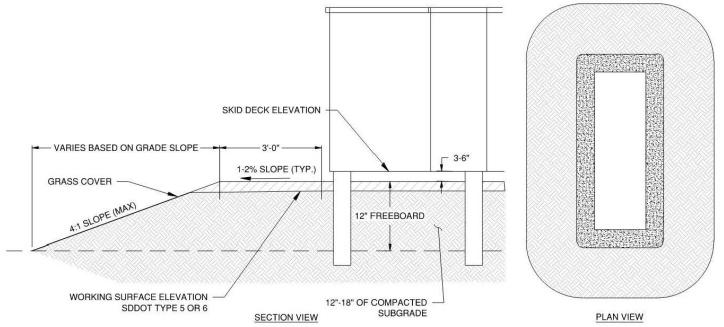
PROFILE VIEW

NOTES:
1. CHANNEL SLOPES TO BE MODIFIED DURING CONSTRUCTION TO ALLOW FOR ADEQUATE COMPONENT DELIVERY AND STABILIZED NEW SLOPES CREATED
2. CROSSING SHALL HAVE THE TOP-MOST SURFACE LAYER A MINIMUM OF 2.5" BELOW THE STREAM CHANNEL BOTTOM.
3. THE ACCESS ROAD SHALL CROSS THE DITCH AT 90° ANGLE AND MEET TURBINE DEFLECTION REQUIREMENTS.
4. MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING INSTALLATION. RESTORE DISTURBED AREA TO NATIVE CONDITIONS IN ACCORDANCE WITH THE SWPPP
5. ROCK CHECK DAMS MAY BE NECESSARY IF FLOWS AND DRAINAGE AREAS REQUIRE.
6. COMPACTED SHOULDER SHALL BE SEEDED AFTER CONSTRUCTION TO NATIVE CONDITIONS IN ACCORDANCE WITH THE SWPPP.

REVISION
DATE: 2019.07.30
BY: C. SMAALADEN

ACCESS ROAD LOW WATER CROSSING (AGGREGATE)

DETAIL # PWS-101



SECTION VIEW

PLAN VIEW

NOTES:
1. GRADE WORKING SURFACE AROUND THE POWER STATION SKID PAD TO 1-2% FOR 5' (TYP) IN ALL DIRECTIONS AWAY FROM FOUNDATION TO ACHIEVE PROPER DRAINAGE. REFER TO FOUNDATION DRAWINGS FOR SPECIFIC BACKFILL AND GRADING REQUIREMENTS.
2. BACKFILL USED TO BUILD INVERTER PAD SHALL BE COMPACTED PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
3. 3. THE CONTRACTOR SHALL VERIFY THE FOLLOWING DESIGN PARAMETERS ARE MET OF ALL BACKFILL BELOW THE MAXIMUM PILE REVEAL: C=1250PSF, PHI=20DEG, Y=125PSF.
4. INVERTER SKID SHALL BE AT MINIMUM 12" ABOVE THE 100-YR, 24-HR FLOOD ELEVATION LEVEL.

TYPICAL POWER STATION SKID GRADING

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

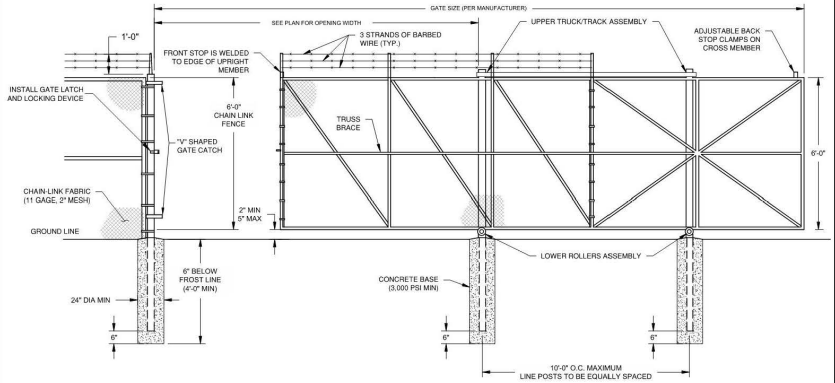
NSRS 2011 South Dakota State Planes, South Zone, US Foot

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

TYPICAL ROAD AND INVERTER PAD DETAILS

DRAWING NUMBER: WSS-C-556-01
REVISION: 0

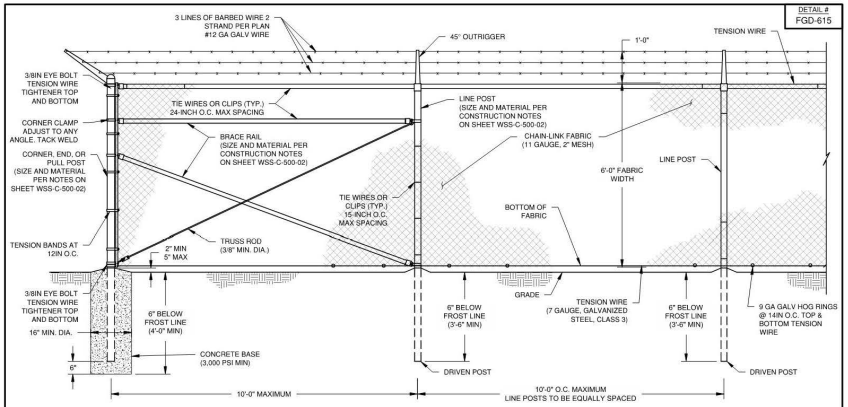
DETAIL # FGD-614



NOTES:
1. CHAINLINK FENCE SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.
2. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
3. ROLLERS SHALL BE MOUNTED TO GATE POST WITH ADJUSTABLE CLAMPS.
4. ROLLERS SHALL BE NYLON COMPOSITE W/ SEALED BEARINGS OR APPROVED EQUAL.

SLIDING GATE DETAIL WITH BARBWIRE

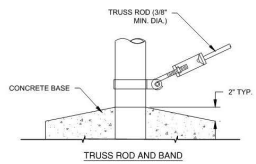
DETAIL # FGD-615



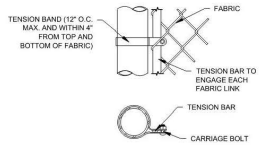
NOTES:
1. CHAINLINK FENCE SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.
2. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
3. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
4. ONE PULL POST ASSEMBLY REQUIRED FOR EACH 500 LF OF FENCE AND AT ALL SHARP BREAKS IN TERRAIN.

TYPICAL CHAIN LINK FENCE DETAIL (3-STRAND SECURITY BARBWIRE)

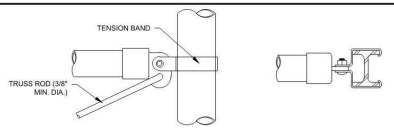
DETAIL # FGD-618



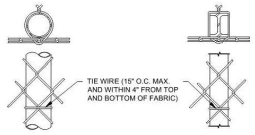
TRUSS ROD AND BAND



END OR GATE POST DETAIL

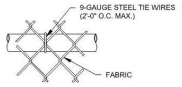


BRACE RAIL CLAMP DETAILS

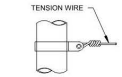


ROUND POST ATTACHMENT

H-BEAM ATTACHMENT



BOTTOM OR BRACE RAIL ATTACHMENT

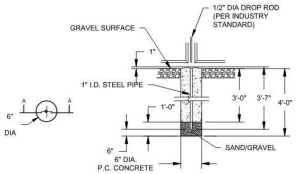


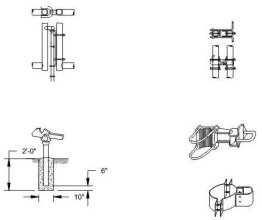
TENSION BAND DETAIL

NOTES:
1. CHAINLINK FENCE SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.
2. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.

CHAIN LINK FENCE FASTENING DETAILS

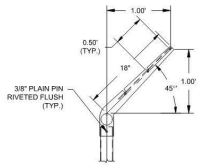
DETAIL # FGD-617

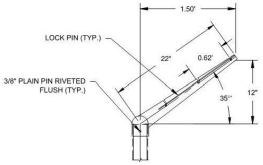




ACCESS GATE DETAILS

DETAIL # FGD-619





EXTENSION ARM DETAILS

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

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nationalgrid renewables
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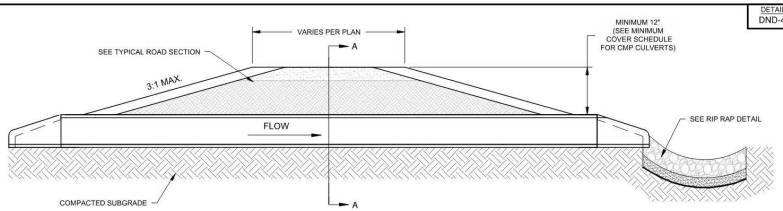
NSRS 2011 South Dakota State Planes, South Zone, US Foot

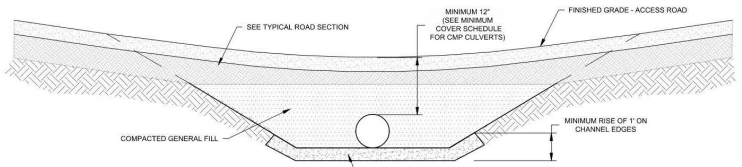
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

FENCE DETAILS

DRAWING NUMBER: WSS-C-556-02
REVISION: 0

DETAIL # DND-401





SECTION A-A

NOTES:

1. CULVERT INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INSTALL CULVERT AT MIN. 0.5% SLOPE.
3. BACKFILL ADJACENT TO AND ABOVE PIPE CULVERT IN CONJUNCTION WITH EMBANKMENT CONSTRUCTION.
4. CULVERTS SHOULD HAVE A MINIMUM COVER IN ACCORDANCE WITH THE MINIMUM COVER SCHEDULE FOR CMP CULVERTS TABLE .

TYPICAL CULVERT PROFILE AND CROSS SECTION

DETAIL # DND-402

MINIMUM COVER SCHEDULE FOR CMP CULVERTS

STEEL ROUND PIPE 2 2/3" x 1/2" CORRIGATIONS					
DIAMETER OF PIPE (IN)	MINIMUM ALLOWABLE COVER (FT)				
	16 GAGE	14 GAGE	12 GAGE	10 GAGE	8 GAGE
12	1.0	1.0			
18	1.0	1.0			
24	1.0	1.0	1.0		
30	1.0	1.0	1.0		
36	2.0	1.0	1.0	1.0	
48		3.0	1.0	1.0	1.0
60			2.5	1.0	1.0

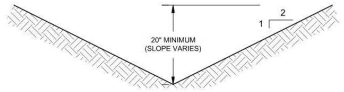
STEEL ROUND PIPE 3" x 1" AND 5" x 1" CORRIGATIONS					
DIAMETER OF PIPE (IN)	MINIMUM ALLOWABLE COVER (FT)				
	16 GAGE	14 GAGE	12 GAGE	10 GAGE	8 GAGE
36	1.0	1.0	1.0	1.0	1.0
48	4.0	1.5	1.0	1.0	1.0
60		3.5	1.0	1.0	1.0

BASED ON "SEWER MANUAL FOR CORRIGATED STEEL PIPE," BY NATIONAL CORRUGATED STEEL PIPE ASSOCIATION, USING DESIGN THEROY USED IN THE "HANDBOOK OF STEEL DRAINAGE AND HIGHWAY CONSTRUCTION PRODUCTS," BY AMERICAN IRON AND STEEL INSTITUTE, ASSUMING 4,500 PSF CRANE LOADING WITH A 30 DEGREE DISTRIBUTION ANGLE, COVER SOIL UNIT WIEGHT OF 120 PCF, AND CRANE TRACK WIDTH OF 5', SAFTEY FACTOR = 3.0

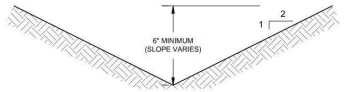
FOR 66" CULVERT, PROVIDE MINIMUM COVER THICKNESS AS RECOMMENDED BY MANUFACTURER.

MINIMUM COVER FOR CMP CULVERTS

DETAIL # DND-403



GRASS AND EROSION CONTROL LINED



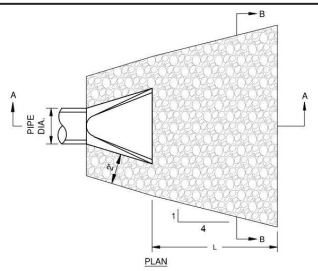
LOW VOLUME GRASS

NOTES:

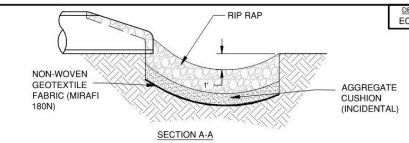
1. INSTALL SWALE IN LOCATIONS DEPICTED ON DRAWINGS.
2. INSTALL TEMPORARY EROSION CONTROL BLANKET IN ANY SWALE WITH SLOPES GREATER THAN 2 PERCENT AND LESS THAN 8 PERCENT SLOPE OR AS INDICATED ON PLANS.
3. INSTALL PERMANENT EROSION CONTROL FABRIC IN ANY SWALE WITH SLOPES GREATER THAN 8 PERCENT OR AS INDICATED ON THE PLANS.

TYPICAL SWALE DETAIL

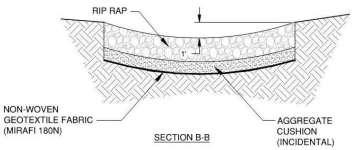
DETAIL # ECD-507



PLAN



SECTION A-A



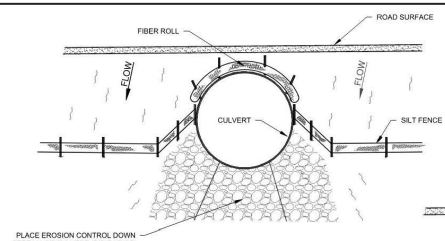
SECTION B-B

ROCK RIPRAP GRADATION TABLE

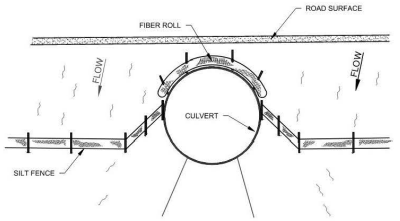
ROCK RIPRAP CLASS BY MEDIAN PARTICLE DIAMETER (D50)		D15 (IN)		D50 (IN)		D85 (IN)		D100 (IN)
CLASS	DIAMETER (IN)	MIN	MAX	MIN	MAX	MIN	MAX	MAX
I	6	3.7	5.2	5.7	6.9	7.8	9.2	12.0
II	9	5.3	7.8	8.5	10.5	11.5	14.0	18.0
III	12	7.3	10.5	11.5	14.0	15.5	18.5	24.0

RIP RAP DETAIL

DETAIL # ECD-510



PROFILE VIEW - DOWN STREAM



PROFILE VIEW - UPSTREAM

NOTES:

1. CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL AT CULVERTS THROUGHOUT DURATION OF CONSTRUCTION.
2. EXTENT OF DOWN STREAM EROSION CONTROL REQUIRED TO BE FIELD VERIFIED BY ON-SITE FIELD ENGINEER.
3. RETURN STREAMBED TO PRE-CONSTRUCTION CONDITIONS AFTER CULVERT INSTALLATION.

EROSION CONTROL (CULVERT END TREATMENTS)

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

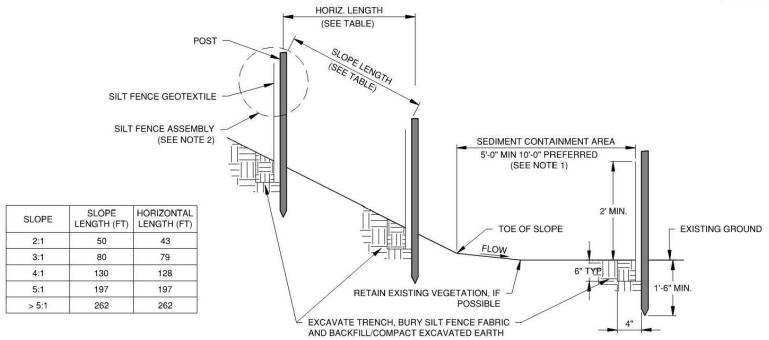
NSRS 2011 South Dakota State Planes, South Zone, US Foot

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

CULVERT INSTALLATION DETAILS

DRAWING NUMBER: WSS-C-556-03
REVISION: 0

DETAIL # ECD-501



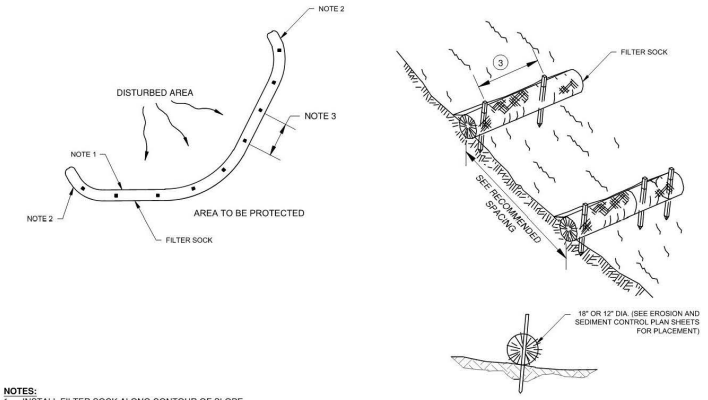
SLOPE	SLOPE LENGTH (FT)	HORIZONTAL LENGTH (FT)
2:1	50	43
3:1	80	79
4:1	130	128
5:1	197	197
> 5:1	262	262

NOTES:

1. SILT FENCE OR STRAWBALE DIKE SHALL BE PLACED A MINIMUM OF 5'-0" FROM TOE OF SLOPE, 10'-0" PREFERRED. TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OR SEDIMENT CONTROL AREA.
2. POST MAY BE 1 1/4" x 1 1/4" (MINIMUM) HARDWOOD, 1 1/2" x 3 1/2" (MINIMUM) SOFTWOOD, OR 4LB/FT (MIN) STEEL. SPACING FOR THE PROVIDED SILT FENCE SHALL BE AS DESIGNATED ON THE DEPARTMENT APPROVED LIST FOR SILT FENCE.
3. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
4. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
5. INSTALL ENDS OF SILT FENCE UPHILL TO PREVENT WATER FROM FLOWING AROUND.

SILT FENCE DETAIL

DETAIL # ECD-502



NOTES:

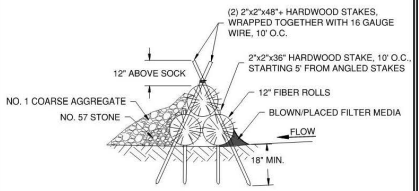
1. INSTALL FILTER SOCK ALONG CONTOUR OF SLOPE.
2. TURN ENDS OF FILTER SOCK UPHILL TO PREVENT WATER FROM FLOWING AROUND ENDS.
3. INSTALL WOOD STAKES AS NECESSARY TO PREVENT MOVEMENT AND UNDERMINING. STAKES SHALL BE SPACED AT 10' MAX. INTERVALS WITH WIRE SUPPORTED FENCE AND 6' MAX INTERVALS WITHOUT WIRE SUPPORT.
4. SEE SILT FENCE SPECIFICATIONS FOR APPLICABILITY AND MAINTENANCE.

RECOMMENDED SPACING

SLOPE	SPACING
<4:1	20'
2:1 TO 4:1	15'
2:1 OR GREATER	10'

FIBER ROLL DETAIL

DETAIL # ECD-502a

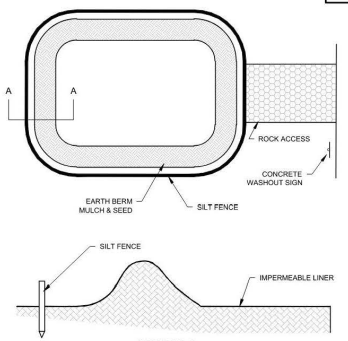


NOTES:

1. INSTALL FILTER SOCK ALONG CONTOUR OF SLOPE.
2. TURN ENDS OF FILTER SOCK UPHILL TO PREVENT WATER FROM FLOWING AROUND ENDS.
3. INSTALL WOOD STAKES AS NECESSARY TO PREVENT MOVEMENT AND UNDERMINING. STAKES SHALL BE SPACED AT 10' MAX. INTERVALS WITH WIRE SUPPORTED FENCE AND 6' MAX INTERVALS WITHOUT WIRE SUPPORT.
4. SEE SILT FENCE SPECIFICATIONS FOR APPLICABILITY AND MAINTENANCE.

TRIPLE-STACKED FIBER ROLL DETAIL

DETAIL # ECD-504



SECTION A-A

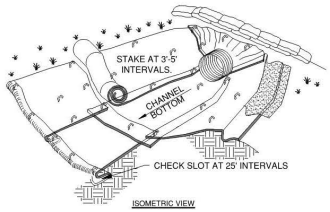
NOTE:

1. CONCRETE WASHOUT AREAS SHALL HAVE AN IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL. IMPERMEABLE LINER INCLUDES 10 MIL. POLYLINER OR COMPACTED CLAY LINER. WASHOUT SYSTEMS CAN BE USED AS ALTERNATE WASHOUT AREAS.
2. AN APPROVED ALTERNATE MAY BE USED.
3. CONCRETE WASHOUT SHALL BE LOCATED AT THE BATCH PLANT AND/OR EACH TURBINE SITE.

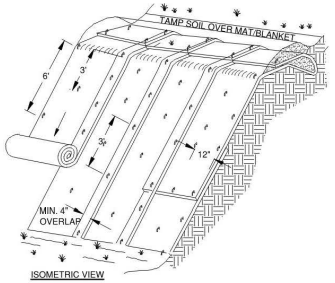
REVISION DATE: 2019.07.30 BY: C. SMAALADEN

TYPICAL CONCRETE WASHOUT AREA

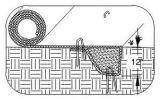
DETAIL # ECD-503



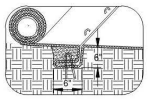
ISOMETRIC VIEW



ISOMETRIC VIEW



INITIAL CHANNEL ANCHOR TRENCH



INTERMITTENT CHECK SLOT

		SHEAR STRESS	VELOCITY
TEMPORARY DEGRADABLE RECPS	JUTE NET	0.45	1 - 2.5
	STRAW WITH NET	1.5 - 1.65	1 - 3
	COCONUT FIBER WITH NET	2.25	3 - 4
	FIBERGLASS ROVING	2.00	2.5 - 7
NON-DEGRADABLE RECPS	UNVEGETATED	3.00	5 - 7
	PARTIALLY ESTABLISHED	4.0 - 6.0	7.5 - 15
	FULLY VEGETATED	8.00	8 - 21

NOTES:

1. SLOPE SURFACE SHALL BE SMOOTH BEFORE PLACEMENT FOR PROPER SOIL CONTACT.
2. STAMPING PATTERN AS PER MANUFACTURER'S RECOMMENDATIONS.
3. IF THERE IS A BERM AT THE TOP OF SLOPE, ANCHOR UPSLOPE OF THE BERM.
4. DO NOT STRETCH BLANKETS/MATTINGS TIGHT, ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES. FOR SLOPES LESS THAN 3H:1V ROLLS MAY BE PLACED IN HORIZONTAL STRIPS.
5. LIME, FERTILIZE, AND SEED BEFORE INSTALLATION. PLANTING OF SHRUBS, TREES, ETC. SHOULD OCCUR AFTER INSTALLATION.
6. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURERS SPECIFICATIONS.
7. STACKING OR STAPLING LAYOUT PER MANUFACTURERS SPECIFICATIONS.

EROSION CONTROL BLANKET DETAIL

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

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0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
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Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

NSRS 2011 South Dakota State Planes, South Zone, US Foot

Ulteig
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
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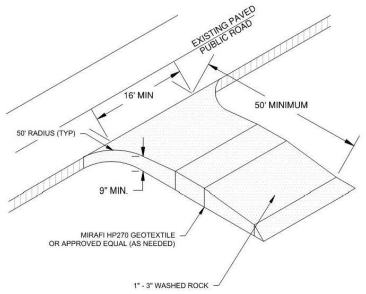
EROSION & SEDIMENT CONTROL DETAILS

DRAWING NUMBER: WSS-C-556-04
REVISION: 0

DETAIL # ECD-505

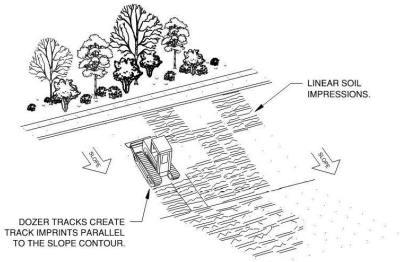


NOTES:

1. TRACKED SEDIMENT ONTO PUBLIC ROADS SHALL BE REMOVED BY THE END OF THE WORK DAY OR WITHIN 24 HOURS OF DISCOVERY.

TYPICAL VEHICLE TRACKING PAD

DETAIL # ECD-511



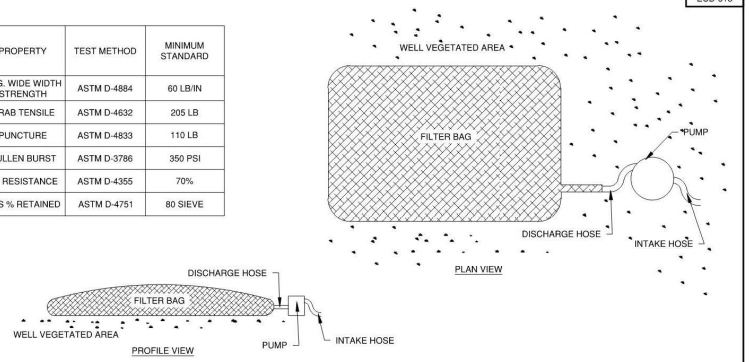
NOTES:

1. PERFORM VERTICAL TRACKING ON SLOPES TO TEMPORARILY STABILIZE SOIL.
2. PROVIDE EQUIPMENT WITH A TRACK UNDERCARRIAGE CAPABLE OF PRODUCING LINEAR SOIL IMPRESSIONS MEASURING A MINIMUM OF 12" IN LENGTH BY 2" TO 4" IN WIDTH BY 1/2" TO 2" IN DEPTH.
3. DO NOT EXCEED 12" BETWEEN TRACK IMPRESSIONS.
4. INSTALL CONTINUOUS LINEAR TRACK IMPRESSIONS WHERE THE MINIMUM 12" LENGTH IMPRESSIONS ARE PERPENDICULAR TO THE SLOPE OR DIRECTION OF WATER FLOW.

VERTICAL TRACKING

DETAIL # ECD-513

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

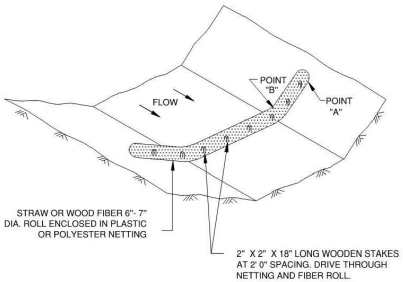


NOTES:

1. PLACE FILTER BAG ON WELL VEGETATED AREA OR AREA NOT SUSCEPTIBLE TO EROSION OR RUN-OFF.
2. DO NOT ALLOW WATER FROM FILTER BAG TO FLOW DIRECTLY INTO SURFACE WATER BODIES.
3. MAINTAIN FILTER BAG PER MANUFACTURER'S RECOMMENDATIONS.
4. LOW VOLUME FILTER BAGS SHALL BE MADE OF NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH DOUBLE STITCH J TYPE SEAMS. AND BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
5. HIGH VOLUME FILTER BAGS SHALL MEET STANDARDS IN TABLE LISTED ABOVE.

FILTER BAG DETAIL

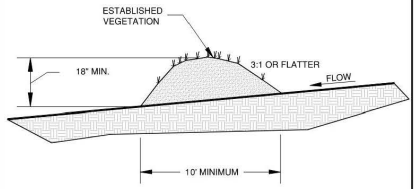
DETAIL # ECD-514



NOTES:

1. POINT "A" MUST BE AT LEAST 1 HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND ENDS.

FIBER ROLL (DITCH APPLICATION)

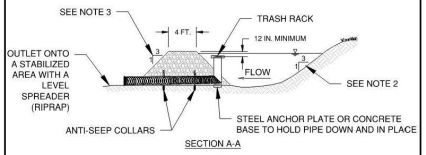


NOTES:

1. BERMS SHALL HAVE A HEIGHT OF 18 INCHES, SIDE SLOPES OF 3:1 OR FLATTER AND A MINIMUM BASE WIDTH OF 10 FEET.
2. BERMS SHALL BE USED TO INTERCEPT AND DIVERT DRAINAGE TO A DESIGNATED OUTLET.
3. BERMS SHALL NOT BE USED WHERE DRAINAGE AREA EXCEEDS 10 ACRES.
4. TRIPLE STACKED FIBER ROLLS TO BE ADDED AT OUTFLOW LOCATIONS

PERIMETER CONTROL VEGETATED BERM

DETAIL # ECD-100



NOTES:

1. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
2. SIDE SLOPES WITHIN THE SAFETY CLEAR ZONE OF A ROADWAY SHALL BE 6:1 (H:V) OR FLATTER. PROTECT THE TRAVELING PUBLIC FROM INLET STACKS WITHIN THE CLEAR ZONE.
3. SEDIMENT BASINS SHALL HAVE SIDE SLOPES OF 3:1 OR GREATER.
4. THE DIMENSIONS AND LIMITS OF THE EXCAVATION FOR SEDIMENT BASINS AND TRAPS WILL BE AS SHOWN ON THE PLANS.
5. THE SANDBAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WIGHT 4 OUNCES/SY, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.

SEDIMENT BASIN AND/OR TRAP WITH PIPE OUTLET

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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Ames Construction
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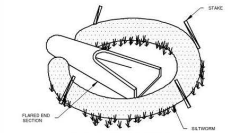
NSRS 2011 South Dakota State Planes, South Zone, US Foot

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

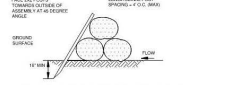
EROSION & SEDIMENT CONTROL DETAILS

DRAWING NUMBER: WSS-C-556-05
REVISION: 0

DETAIL # ECD-523.1

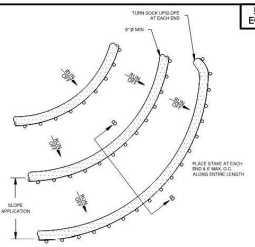


FLARED END APPLICATION

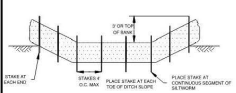


SILTWORM (STACK DETAIL ONLY)

STACK DETAIL - IS AN EFFECTIVE INSTALLATION METHOD TO ACHIEVE HEIGHT/VOLUME NEEDS. SEDIMENT RETENTIONS ARE TYPICALLY INCREASED WHEN ADDING A STACKED DETAIL WHERE SITE CONDITIONS REQUIRE.

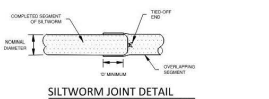


PLAN VIEW FOR SLOPE APPLICATION



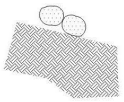
DITCH CHECK APPLICATION

ADD ADDITIONAL LINE OF DEFENSE WHEN SEDIMENT REACHES 50% OF THE HEIGHT OF THE SILTWORM



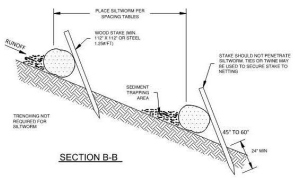
SILTWORM JOINT DETAIL

EROSION CONTROL PLAN LEGEND SILTWORM

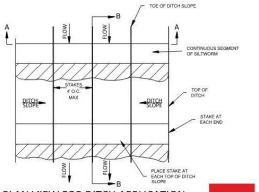


MAINTENANCE APPLICATION

IN THE EVENT THAT THE SILTWORM IS RUN OVER WITH LIGHT VEHICLE TRAFFIC OR COMPRESSED, RESHAPE TO ORIGINAL CONTOUR. IN THE EVENT THAT NETTING IS TORN, ADD PROVIDED SLEEVE OVER EXISTING TORN AREA, OR CUT OUT THE TORN AREA AND RE-TIE THE NEW EXISTING ENDS.



SECTION B-B



PLAN VIEW FOR DITCH APPLICATION

SILTWORM DETAIL

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DETAIL # ECD-523.2

SILTWORM HEIGHTS INSTALLED		
NOMINAL DIAMETER, Ø	INSTALLED HEIGHT OF SINGLE SILTWORM	INSTALLED HEIGHT OF STACKED SILTWORM
6"	4.5"	9"
9"	7.5"	15"
12"	9.5"	19"
18"	14.5"	29"

MINIMUM SPECIFICATION FOR SILTWORM		
PROPERTY		
PH	1.0	5.0 - 8.5
MOISTURE CONTENT	% WET WEIGHT BASIS	< 60
ORGANIC MATTER CONTENT	% DRY WEIGHT BASIS	25 - 100
PHYSICAL CONTAMINANTS	% DRY WEIGHT BASIS	< 1%
PARTICLE SIZE		2 INCH - 70%-80% / 38 INCH - 20% - 30% MAX. PARTICLE SIZE 2"

SILTWORM CHECK DAM ESTIMATED QUANTITIES				
	V - DITCH (1)		TRAPEZOIDAL DITCH (2)	
	12" SILTWORM	18" SILTWORM	12" SILTWORM	18" SILTWORM
LENGTH (FT)	60	48	72	60

(1) ESTIMATED QUANTITIES BASED ON A 4:1 SIDE SLOPE. QUANTITIES WILL VARY BASED ON ACTUAL DITCH CONFIGURATION
(2) ESTIMATED QUANTITIES BASED ON A 4 FT BOTTOM WIDTH, 4 FT DEPTH, AND 4:1 SIDE SLOPES. QUANTITIES WILL VARY BASED ON ACTUAL DITCH CONFIGURATION

SILTWORM SPACING FOR SLOPE APPLICATION			
SLOPE	8"	12"	18"
2%	70"	80"	100"
5%	30"	60"	80"
10%	20"	30"	70"
6:1	N/A	20"	40"
4:1	N/A	20"	30"
3:1	N/A	N/A	20"
2:1	N/A	N/A	20"

N/A = NOT RECOMMENDED SPACING NOT TO EXCEED 100'

SILTWORM SPACING FOR DITCH APPLICATION	
DITCH SLOPE	MAXIMUM SPACING
LESS THAN 2%	80'
2%	80'
3%	50'
4%	40'
5%	30'
6%	20'
GREATER THAN 2%	20'

REVISION
DATE: 2022.09.16
BY: R. KAWLESKI

SILTWORM DETAIL TABLES

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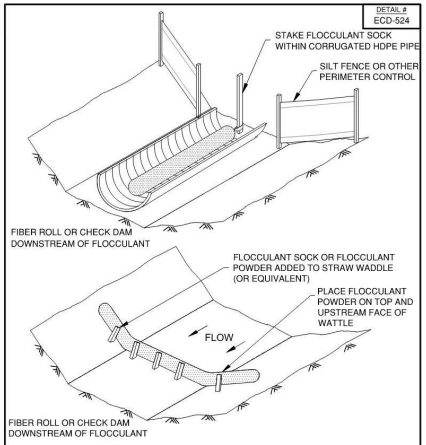
DETAIL # ECD-524



NOTES:
1. FLOCCULANT SOCK CAN BE INSTALLED IN CONCENTRATED FLOW AREAS, 10 FT (MIN.) UPSTREAM OF TRIPLE STACKED FIBER ROLLS ACCORDING TO MANUFACTURING GUIDELINES AS APPROVED BY THE STATE.

REVISION
DATE: 2022.09.09
BY: R. KAWLESKI

FLOCCULANT UPSTREAM DETAIL

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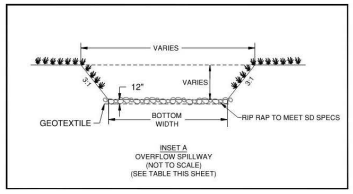
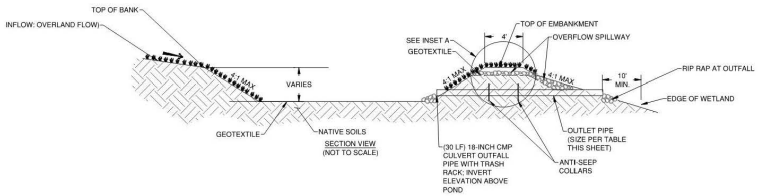


INSET A
OVERFLOW SPILLWAY
(NOT TO SCALE)
(SEE TABLE THIS SHEET)

BOTTOM OF BASIN ELEVATION	2890.00
INLET INVERT ELEVATION	2890.85
OUTLET INVERT ELEVATION	2890.50
TOP OF EMBANKMENT ELEVATION	2894.00
OVERFLOW SPILLWAY ELEVATION	2893.00
BASIN STORAGE VOLUME	0.553 ACRE-FEET



NOTES:
1. CONTRACTOR IS TO CONSTRUCT PERMANENT BASIN PER EROSION AND SEDIMENTATION CONTROL PLANS; GRADING PLANS: SOUTH DAKOTA STATE GUIDELINES; AND THIS DETAIL.
2. POND BASE AND EMBANKMENT SEEDING APPLICATION AND HYDRIC SEED MIX SHALL BE PER THE SITE VEGETATION MANAGEMENT PLAN AND STORMWATER MANAGEMENT PLAN SPECIFICATIONS.
3. NON-WOVEN GEOTEXTILE TO BE PLACED UNDERNEATH OVERFLOW SPILLWAY.
4. HYDROSEED POND EMBANKMENTS AND POND BOTTOM TO PROMOTE VEGETATION ESTABLISHMENT.
5. EROSION CONTROL BLANKET TO BE PLACED 20 FEET UPSTREAM FROM TOP OF BANK IN ALL UPSTREAM INFLOW LOCATIONS AND 5 FEET PAST THE TOW OF THE BASIN.
6. ANTISEEP COLLAR MUST BE PLACED NO CLOSER THAN 2 FT FROM A PIPE JOINT AND AS CLOSE TO THE CENTER OF EMBANKMENT AS POSSIBLE. COLLAR MUST PROJECT AT LEAST 1.5 FT FROM THE PIPE AND BE WATERTIGHT.
7. SPILLWAY EXIT MUST NOT EXCEED MAXIMUM SLOPE.

PERMANENT DETENTION BASIN

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WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

NSRS 2011 South Dakota State Planes, South Zone, US Foot

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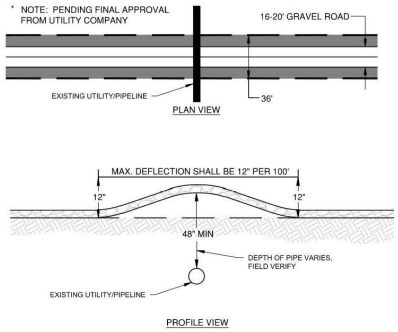
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

EROSION & SEDIMENT CONTROL DETAILS

DRAWING NUMBER: WSS-C-556-06
REVISION: 0

DETAIL # UCD-701



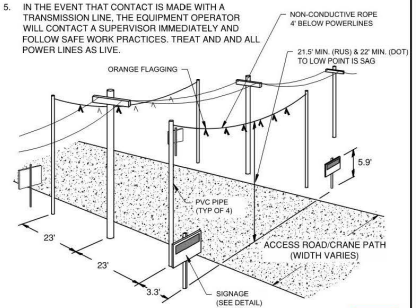
NOTES:
1. CROSSING DETAIL FOR INFORMATION ONLY. CROSSING MUST BE APPROVED BY UTILITY COMPANY PRIOR TO CROSSING.
2. LOCATION AND DEPTH OF EXISTING UTILITY SHALL BE FIELD VERIFIED BY EXISTING UTILITY OWNER/OPERATOR.
3. EARTH COVER PROTECTION FOR EXISTING UTILITIES SHALL BE USED WHERE THE COVER OVER EXISTING UTILITY IS LESS THAN 48".
4. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

EARTH COVER PROTECTION FOR UTILITY CROSSING

DETAIL # UCD-711

NOTES:
1. CONTACT UTILITY COMPANY PRIOR TO CROSSING.
2. OSHA CLEARANCE REQUIREMENTS SHALL BE FOLLOWED FOR ALL UTILITY CROSSINGS.
3. WARNING SIGNS SHALL BE ERECTED ACCORDING TO THE DIAGRAM BELOW PRIOR TO CROSSING UNDERNEATH POWERLINES.
4. ALL EQUIPMENT OPERATORS AND MACHINERY MUST REMAIN A MINIMUM OF 20 FEET AWAY FROM TRANSMISSION LINES AND POLES AT ALL TIMES.
5. IN THE EVENT THAT CONTACT IS MADE WITH A TRANSMISSION LINE, THE EQUIPMENT OPERATOR WILL CONTACT A SUPERVISOR IMMEDIATELY AND FOLLOW SAFE WORK PRACTICES. TREAT AND AND ALL POWER LINES AS LIVE.

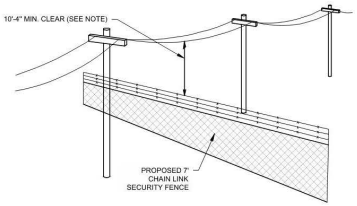
SIGNAGE DETAIL



POWERLINE CROSSING REQUIREMENTS

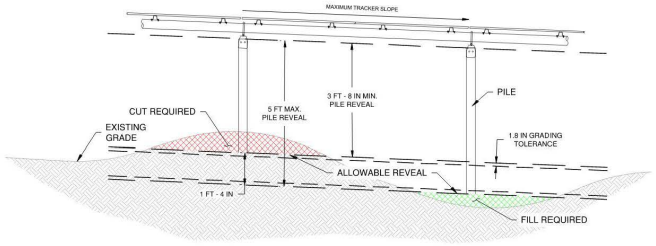
DETAIL # UCD-716

NOTES :
1. CONTACT UTILITY COMPANY PRIOR TO CROSSING.
2. OSHA CLEARANCE REQUIREMENTS SHALL BE FOLLOWED FOR ALL UTILITY CROSSINGS.
3. ALL EQUIPMENT OPERATORS AND MACHINERY MUST REMAIN A MINIMUM OF 20 FEET AWAY FROM TRANSMISSION LINES AND POLES AT ALL TIMES.
4. IN THE EVENT THAT CONTACT IS MADE WITH A TRANSMISSION LINE, THE EQUIPMENT OPERATOR WILL CONTACT A SUPERVISOR IMMEDIATELY AND FOLLOW SAFE WORK PRACTICES. TREAT ANY AND ALL POWER LINES AS LIVE.



POWERLINE/FENCE CROSSING REQUIREMENTS

DETAIL # GRD-801



NOTES:
1. THE TRACKER GRADING CRITERIA IS BASED ON A MEDIAN PILE REVEAL OF 4 FT - 4 IN. A 1.8 IN GRADING TOLERANCE SHOULD BE ACCOUNTED FOR FOR VARIANCES IN GRADING VARIABILITY.
   1.1. MINIMUM PILE REVEAL - 3 FT - 8 IN
   1.2. MAXIMUM PILE REVEAL -5 FT
   1.3. MAXIMUM TRACKER SLOPE (SOUTH FACING) - 15%
   1.4. MAXIMUM TRACKER SLOPE (NORTH FACING) - 8.7%
2. FINAL EARTHWORK TOTALS MAY VARY BASED ON FINAL TRACKER GRADING REQUIREMENTS, PILE REVEALS, AND GRADING TOLERANCES.

TYPICAL TRACKER GRADING DETAIL

WILD SPRINGS SOLAR PROJECT
PENNINGTON COUNTY, SOUTH DAKOTA

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0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

NSRS 2011 South Dakota State Planes, South Zone, US Foot

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

UTILITY CROSSING & GRADING DETAILS

DRAWING NUMBER: WSS-C-556-07
REVISION: 0

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
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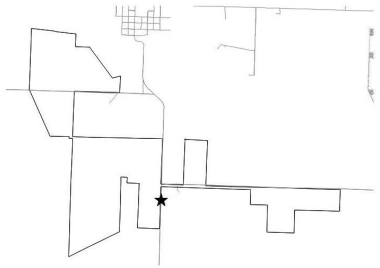
NOTE: ELECTRICAL MV COLLEVTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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nationalgrid renewables
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Ames Construction

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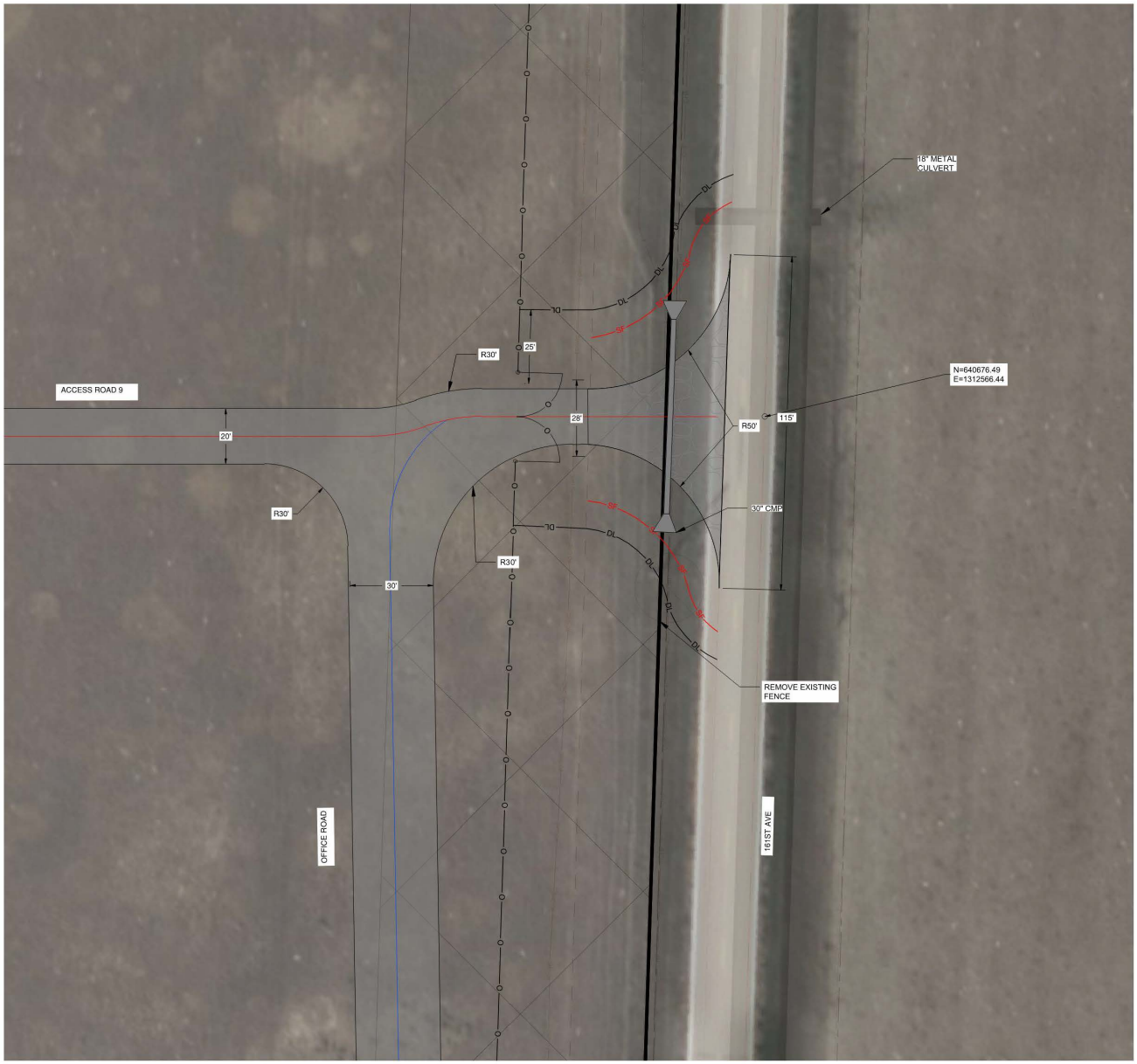
DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 1&2 PARCEL MAP

DRAWING NUMBER: WSS-C-900-01

REVISION: 0



LEGEND

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- PROPOSED LOW WATER CROSSINGS
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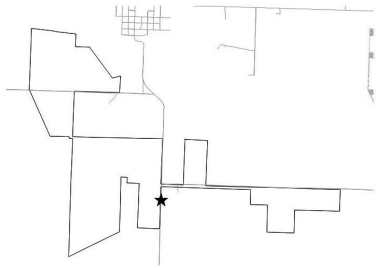
NOTE: ELECTRICAL MV COLLEVTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/29/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

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S

0 10 20 40

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742

CONTACT: ULTEIG.COM

ENTRANCE - 1

DRAWING NUMBER: WSS-C-900-02

REVISION: 1

LEGEND

- PROJECT BOUNDARY
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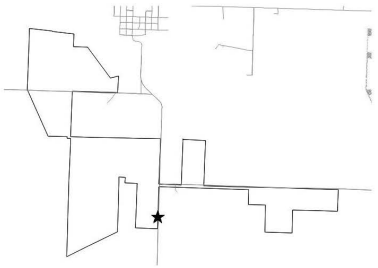

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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0	02/09/2024	RECORD DRAWINGS	BMB
0	02/29/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
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SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

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DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742

CONTACT: ULTEIG.COM

ENTRANCE - 2

DRAWING NUMBER: WSS-C-900-03

REVISION: 1

LEGEND

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- PROPOSED 16FT ACCESS ROAD
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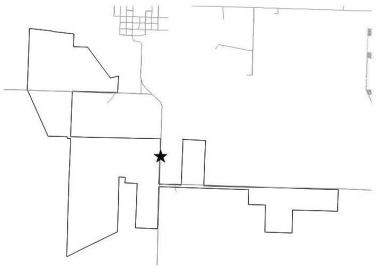

KEYMAP

WILD SPRINGS SOLAR PROJECT

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nationalgrid renewables
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BLOOMINGTON, MN 55437

Ames Construction

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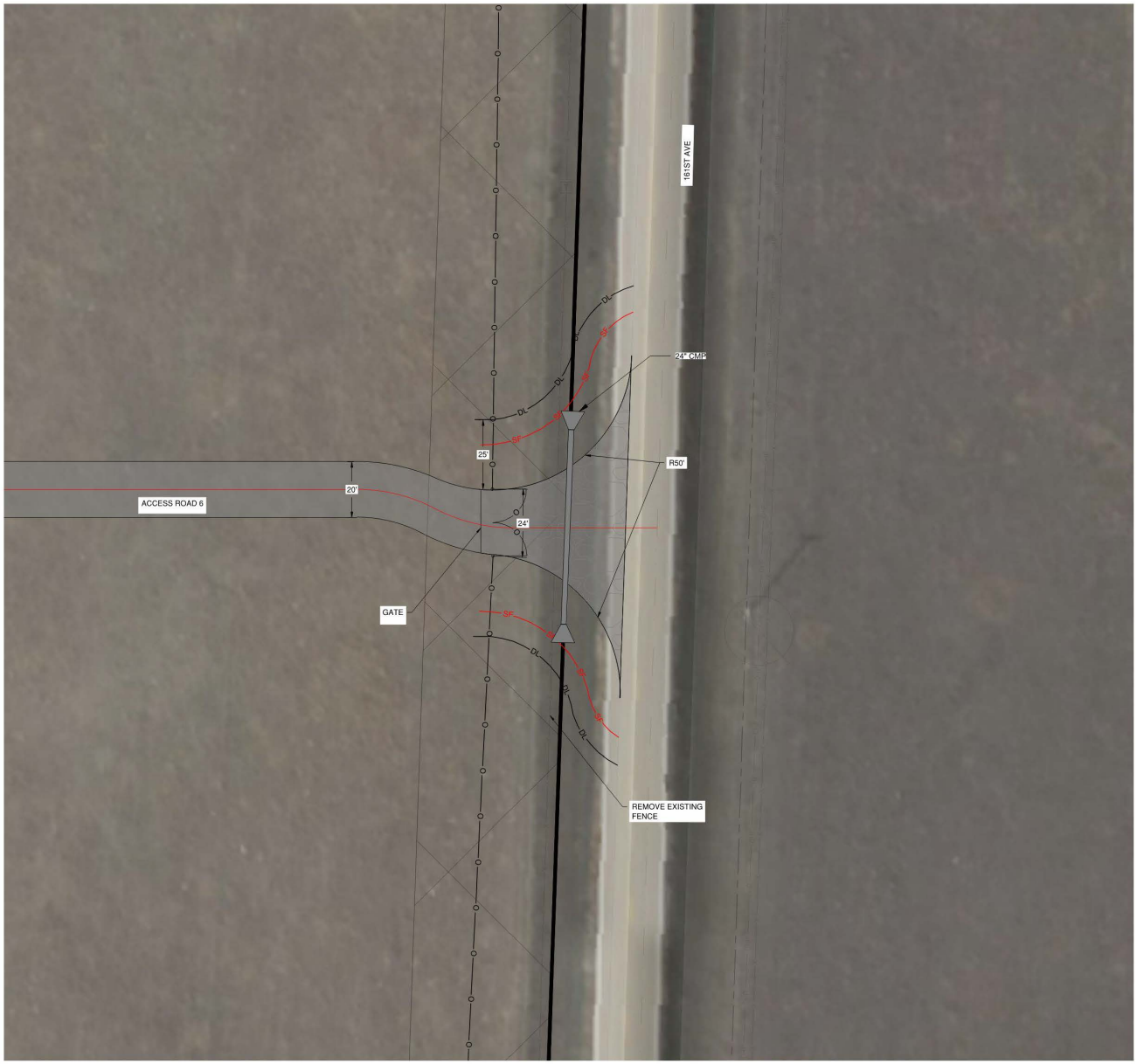
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 3&9 PARCEL MAP

DRAWING NUMBER: WSS-C-900-04
REVISION: 0



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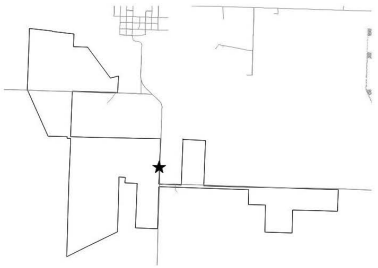
NOTE: ELECTRICAL MV COLLEVTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
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1	02/29/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

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NSRS 2011 South Dakota State Planes, South Zone, US Foot

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 3

DRAWING NUMBER: WSS-C-900-05
REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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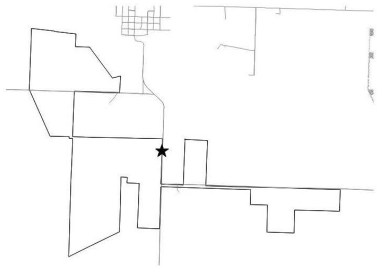

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 9

DRAWING NUMBER: WSS-C-900-06

REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
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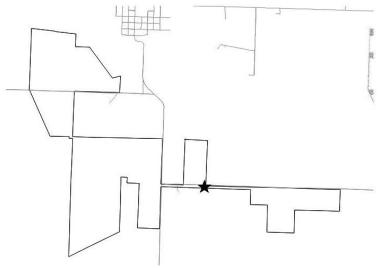
- PV SETBACK AREA

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



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

N
W E
S

0 10 200 400

NSRS 2011 South Dakota State Planes, South Zone, US Foot

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 4 PARCEL MAP

DRAWING NUMBER: WSS-C-900-07
REVISION: 0

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
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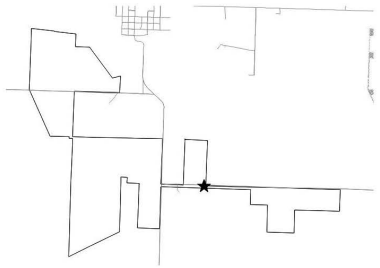

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/29/2024	RECORD DRAWINGS	BMB

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BLOOMINGTON, MN 55437

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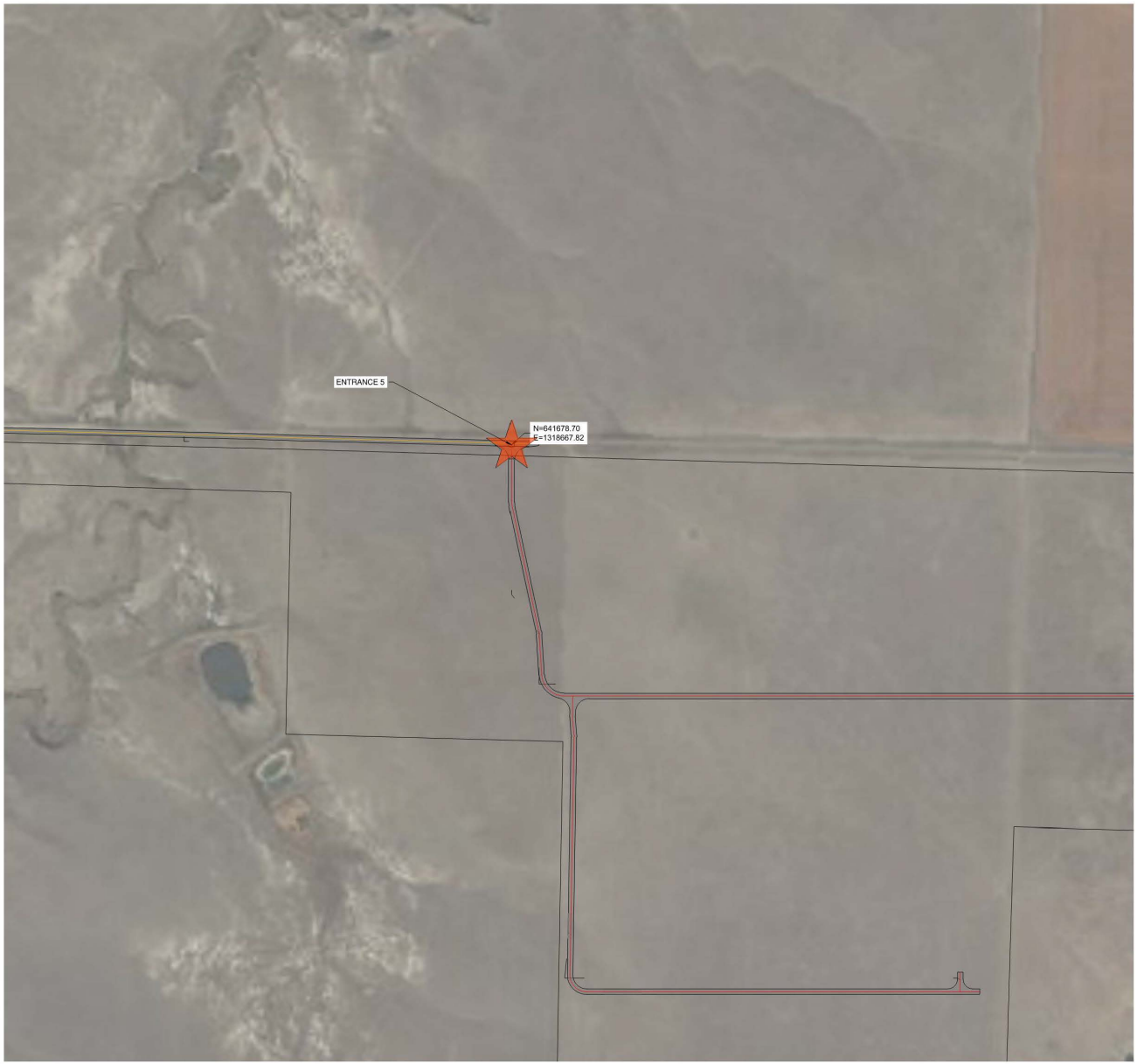
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 4

DRAWING NUMBER: WSS-C-900-08

REVISION: 1



LEGEND

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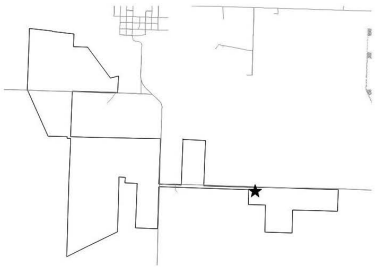

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
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BURNSVILLE, MN 55337

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DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 5 PARCEL MAP

DRAWING NUMBER: WSS-C-900-09
REVISION: 0

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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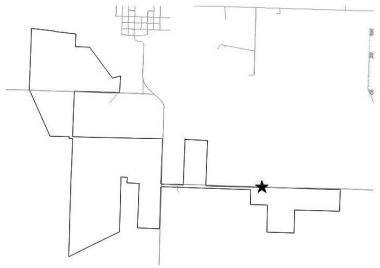

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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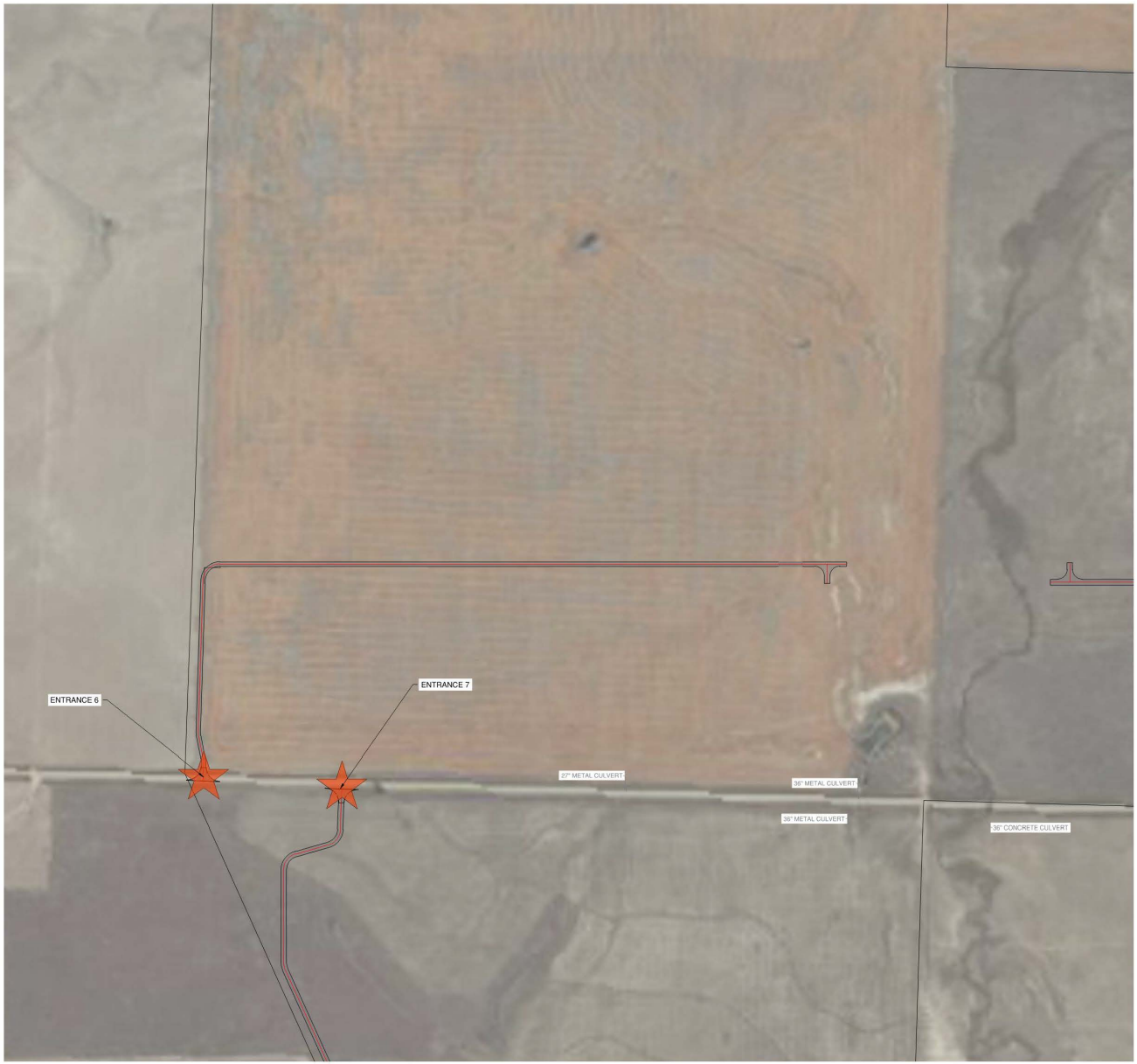
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 5

DRAWING NUMBER: WSS-C-900-10

REVISION: 1



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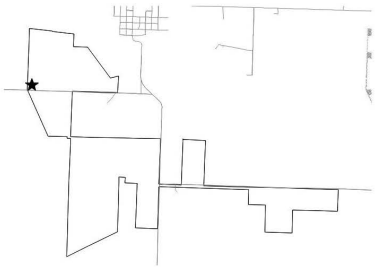

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

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DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742

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CONTACT: ULTEIG.COM

ENTRANCE - 6 & 7 PARCEL MAP

DRAWING NUMBER: WSS-C-900-11
REVISION: 0

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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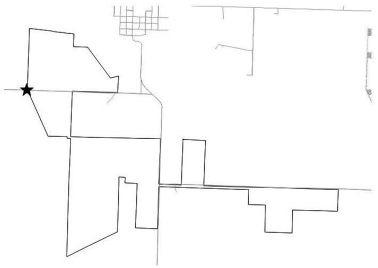

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/29/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction

2500 CO RD 42 W,
BURNSVILLE, MN 55337

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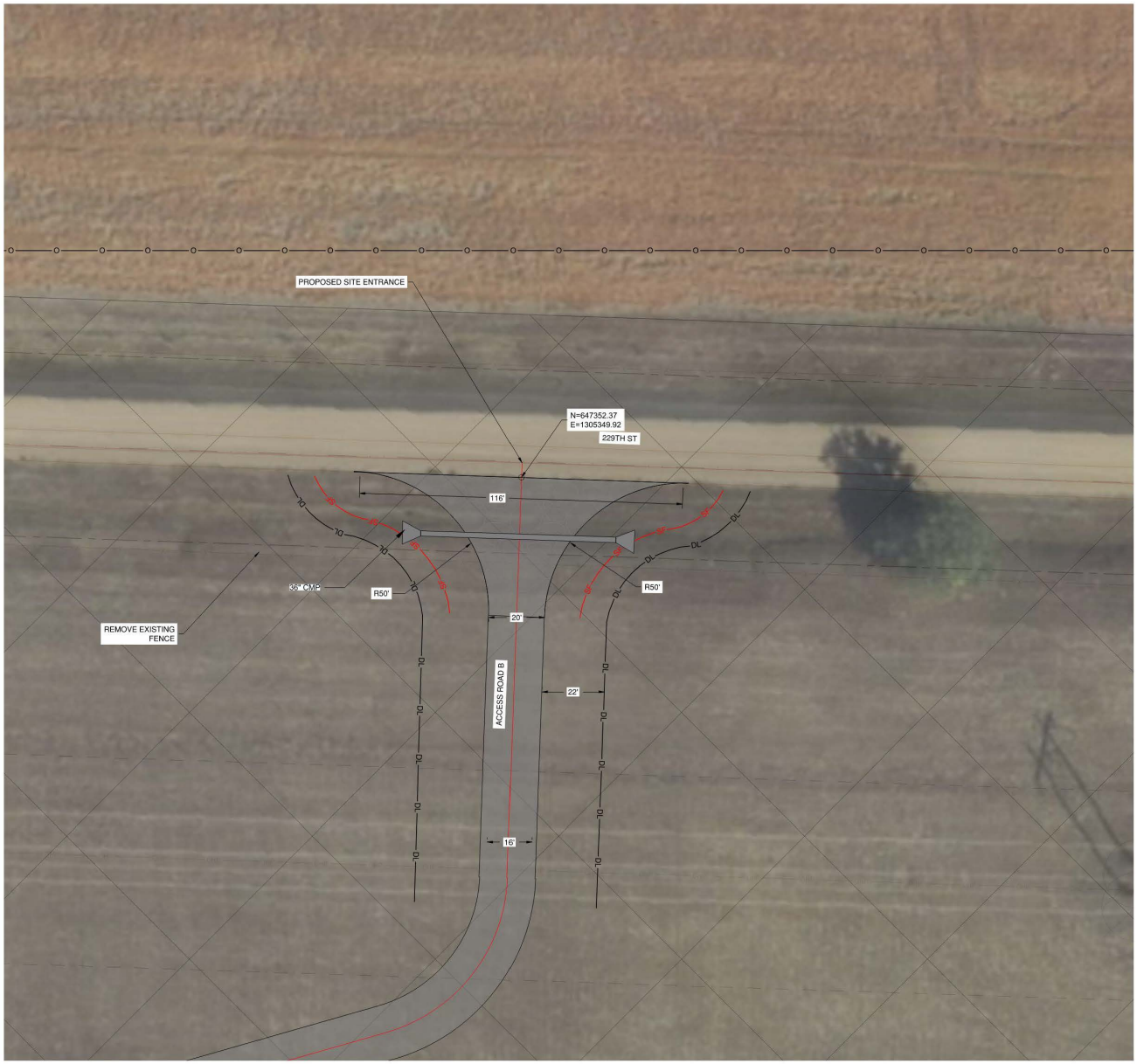
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 6

DRAWING NUMBER: WSS-C-900-12

REVISION: 1



LEGEND

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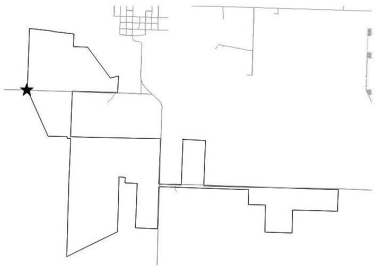

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/29/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD,
SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N W E S

0 10 20 40

NSRS 2011 South Dakota State Planes, South Zone, US Foot

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 7

DRAWING NUMBER: WSS-C-900-13
REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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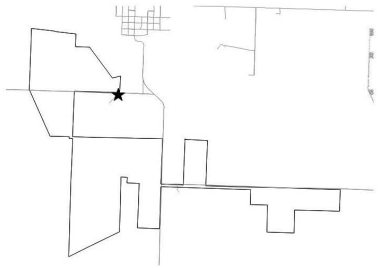

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 8 PARCEL MAP

DRAWING NUMBER: WSS-C-900-14

REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 20FT ACCESS ROAD
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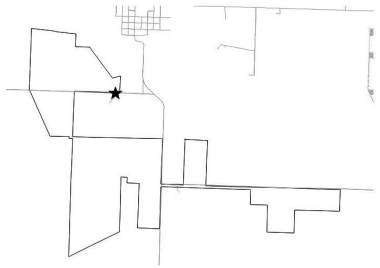

KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

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DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

ENTRANCE - 8

DRAWING NUMBER: WSS-C-900-15

REVISION: 1

LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
- PROPOSED MV COLLECTION SYSTEM
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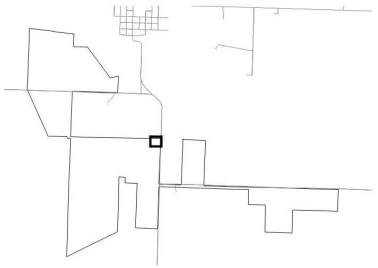
- EXISTING TREE LINE
- EXISTING STREAMS
- EXISTING FIBER OPTIC LINE
- EXISTING WATER LINE
- EXISTING POWER POLE
- EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- EXISTING POWER POLE FOUNDATION
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- ENVIRONMENTAL AVOIDANCE AREA
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND
- PROJECT FACILITIES
- PROPOSED SITE ENTRANCE
- PROPOSED LOW WATER CROSSINGS
- SETBACK AREA
- POST CONSTRUCTION FENCE
- POST CONSTRUCTION ROAD EDGE/CENTERLINE
- POST CONSTRUCTION MV LINE
- POST CONSTRUCTION DC LINE
- POST CONSTRUCTION FO LINE

NOTES:
1. ELECTRICAL MV COLLEVTION LINES ARE SHOWN FOR REFERENCE. PLEASE REFER TO ELECTRICAL DESIGN PLANS FOR CONSTRUCTION DETAILS AND LOCATIONS.
2. HORIZONTAL CULVERT LOCATION MAY BE ADJUSTED DURING CONSTRUCTION TO AVOID FENCE POSTS. CULVERT LENGTH AND ELEVATION SHALL REMAIN THE SAME IF HORIZONTAL SHIFTS ARE REQUIRED.



KEYMAP

WILD SPRINGS SOLAR PROJECT

PENNINGTON COUNTY, SOUTH DAKOTA

Rev.	Date	Description	By
0	02/09/2024	RECORD DRAWINGS	BMB
1	02/29/2024	RECORD DRAWINGS	BMB

nationalgrid renewables
8400 NORMANDALE LAKE BLVD, SUITE 1200
BLOOMINGTON, MN 55437

Ames Construction
2500 CO RD 42 W,
BURNSVILLE, MN 55337

N
W E
S

0 15 30 60

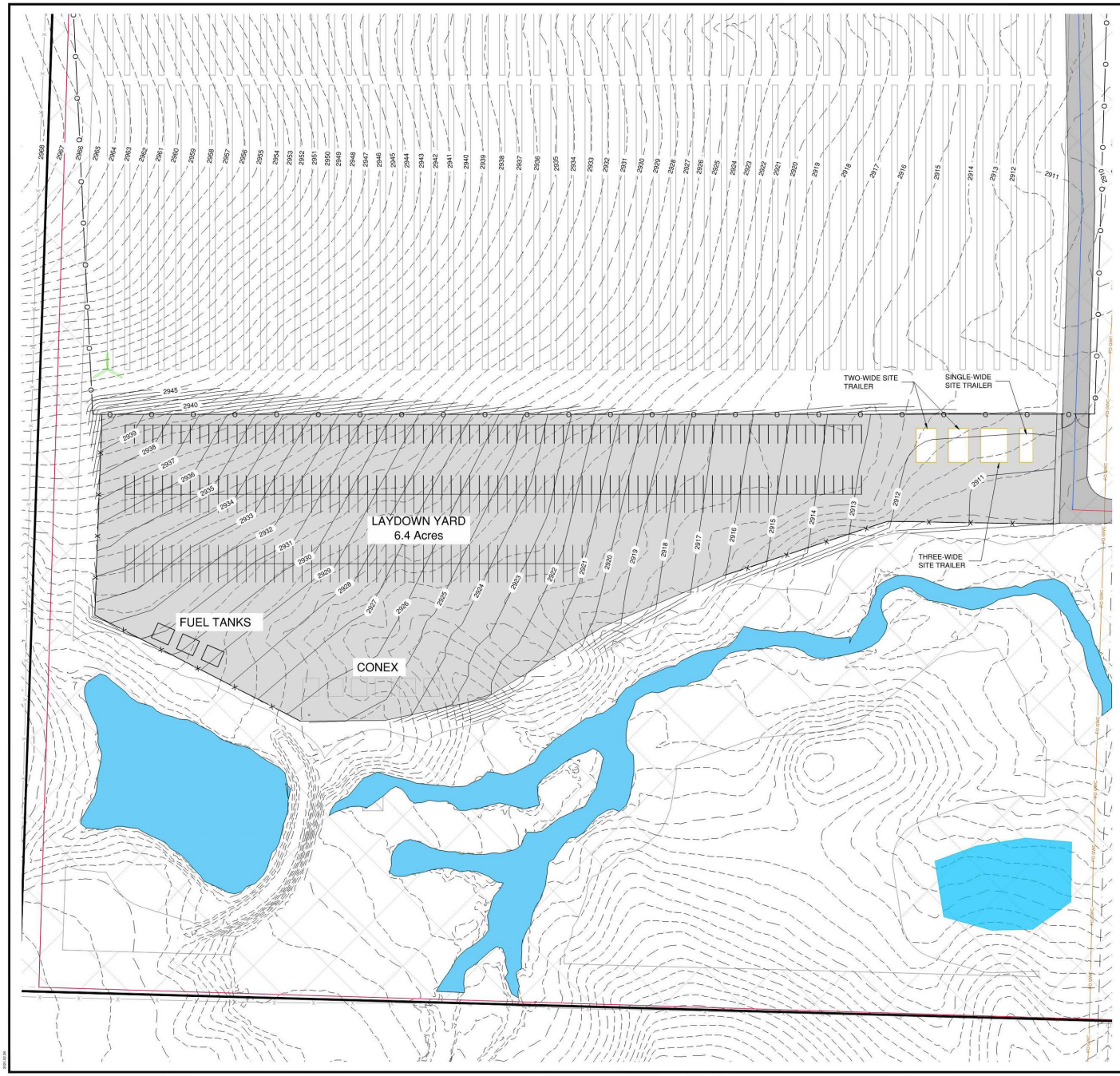
NSRS 2011 South Dakota State Planes, South Zone, US Foot

Ulteig
We listen. We solve.™

DESIGN BY: C. GREVE
DRAWN BY: R. KAWLESKI
APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

SUBSTATION GRADING PLAN

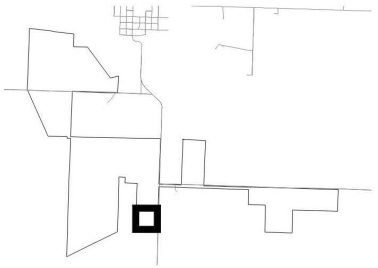
DRAWING NUMBER: WSS-C-111-01
REVISION: 1



LEGEND

- PROJECT BOUNDARY
- PROPOSED PV ARRAY
- PROPOSED 16FT ACCESS ROAD
- PROPOSED 30FT ACCESS ROAD
- PROPOSED POWER STATION
- PROPOSED POWER BLOCK
- PROPOSED CHAIN-LINK FENCE
- UGP — PROPOSED MV COLLECTION SYSTEM
- OHP — PROPOSED OVERHEAD POWER
- PROPERTY LINE
- PROPERTY/SECTION LINE
- 2500' — EXISTING CONTOUR
- 2500' — PROPOSED CONTOUR
- TEMPORARY FENCE
- QUARTER SECTION LINE
- EXISTING RAILROAD
- EXISTING ROAD EDGE
- EXISTING ROAD ROAD CENTERLINE
- OHP — EXISTING OVERHEAD POWER
- X — EXISTING BARB-WIRE FENCE
- EXISTING TREE LINE
- EXISTING STREAMS
- FO GWE — EXISTING FIBER OPTIC LINE
- EXISTING POWER POLE
- T — EXISTING UTILITY PED
- EXISTING BUILDING
- EXISTING SIGN
- EXISTING CULVERT
- EXISTING POWER POLE FOUNDATION
- WETLANDS/WATER EDGE
- QUARRY
- VEGETATION
- ENVIRONMENTAL AVOIDANCE AREA
- PRAIRIE DOG AREAS
- FEMA FLOODPLAINS
- FEMA LOMR BOUNDARY
- WETLAND
- LAYDOWN YARDS
- PROJECT FACILITIES
- PROPOSED SITE ENTRANCE
- PROPOSED LOW WATER CROSSINGS
- SETBACK AREA

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



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DESIGN BY: C. GREVE
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APPROVED BY: B. BUCHOLZ
PROJECT NO: 22.11742
CONTACT: ULTEIG.COM

LAYDOWN YARD SITE PLAN

DRAWING NUMBER: WSS-C-112-01
REVISION: 1