Appendix E

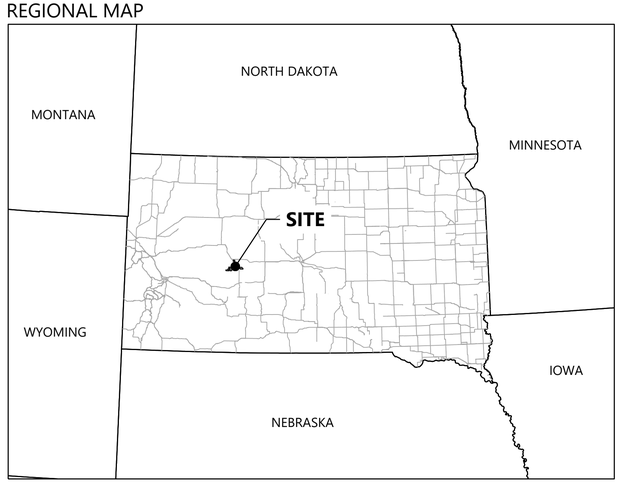
Site Plans, Erosion and Sediment Control Plans, Details

Philip Wind Project

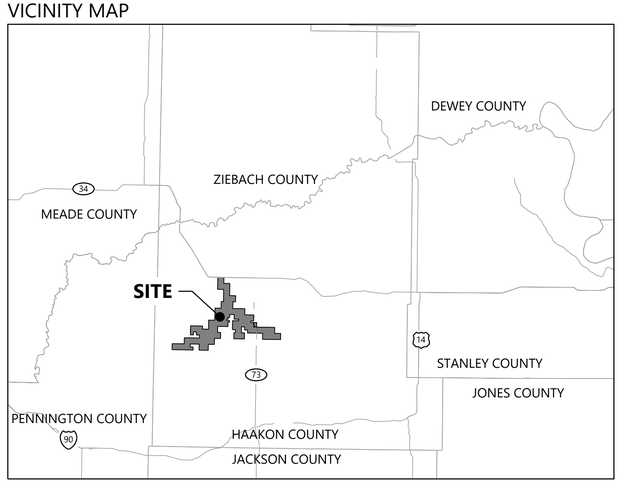
Haakon County, South Dakota

Civil Plans Issued for Permit

REGIONAL MAP



VICINITY MAP



DATA SET INFORMATION			
Coordinate System	South Dakota South NAD83 (2011) SPCS US Feet		
BASE FILE	**FILE NAME / NOTES**	**PROVIDER**	**DATE**
LAND CONTROL	All Participating Land.SHP	BLATTNER	2/11/2026
ALTA SURVEY	0015504_01V-SURV	BLATTNER	2/11/2026
TOPOGRAPHY	0015504.01 Philip Wind_2ft Design Surface.241126.LAS	BLATTNER	1/21/2026
TURBINE ARRAY	Philip_L041_N163_55_WTGs.shp	BLATTNER	2/11/2026
UNDERGROUND COLLECTION	2026-02-20 PHW 30p Wind.kmz	BLATTNER	2/24/2026
GEN-TIE	Philip Wind 230 kV_30% IFR.KMZ	BLATTNER	2/24/2026
STREAMS/WETLANDS	2023-07-06_PhilipWind_WetlandShapes	BLATTNER	2/11/2026
CULTURAL RESOURCES	Philip_Enviornmental_Avoidance_Areas_v4	BLATTNER	3/2/2026
TURBINE DELIVERY MANUAL	Delta4000_All WTGs_Transport-Access Roads and Crane Guidelines_DG200853_22.PDF	BLATTNER	1/21/2026
GEOTECHNICAL REPORT	GE2506044_Philip Wind Project_Geotechnical Report_2026-01-14_revised.PDF	INVENERGY	2/22/2026
O&M	Philip_L041_O&M.kmz	BLATTNER	2/11/2026
SUBSTATION	2026-02-20 PHW 30p Wind.kmz	BLATTNER	3/26/2026
BESS	Proposed_BESS_Area_20260305.kmz	BLATTNER	3/27/2026
REPORTS / PLANS			
PUBLIC ROAD STUDY	Nordex Phillip Project Route Review.PDF	INVENERGY	1/21/2026
ROAD USE AGREEMENT	Philip Wind_Road Use Agreement_Haakon County_12182024.PDF	INVENERGY	1/21/2026
ENVIRONMENTAL ASSESSMENT	Philip-Wind-Final-EA-WAPA_508.PDF	WESTERN AREA POWER ADMINSTRATION	2/11/2026

CONTACT INFORMATION			
PROJECT ROLE	CONTACT NAME	COMPANY	PHONE
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MARKET LEAD	BEN BUCHDA	WESTWOOD	(608) 821-3629
SENIOR ENGINEER	RUBY VEGA	BLATTNER	(504) 269-8484

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PROFESSIONAL ENGINEER
REG. NO.
17360
DAVID
KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

Cover

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C001
REV: B

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Sheet List Table

Sheet Number	Sheet Title	Last Rev Date	Last Rev
C001	Cover	05/07/2026	B
C002	Sheet Index	05/07/2026	B
C003	Turbine Index	05/07/2026	B
C004	Construction Tables	05/07/2026	B
C005	Construction Tables	05/07/2026	B
C200	Delivery Flow Plan	05/07/2026	B
C201	Overall Site Plan	05/07/2026	B
C300	Site Plan Index	05/07/2026	B
C301	Site Plan T-4 T-5 T-38	05/07/2026	B
C302	Site Plan T-39 T-40 T-41 T-42	05/07/2026	B
C303	Site Plan T-2 T-3 T-102 T-103	05/07/2026	B
C304	Site Plan T-1 T-2	05/07/2026	B
C305	Site Plan T-6 T-7	05/07/2026	B
C306	Site Plan T-8 T-9 T-10 T-11	05/07/2026	B
C307	Site Plan T-12 T-15 T-89	05/07/2026	B
C308	Site Plan T-13 T-14 T-16 T-17	05/07/2026	B
C309	Site Plan	05/07/2026	B
C310	Site Plan	05/07/2026	B
C311	Site Plan T-29 T-30	05/07/2026	B
C312	Site Plan T-90 T-91 T-108	05/07/2026	B
C313	Site Plan T-18 T-19 T-20	05/07/2026	B
C314	Site Plan	05/07/2026	B
C315	Site Plan T-31 T-33	05/07/2026	B
C316	Site Plan T-28 T-32	05/07/2026	B
C317	Site Plan	05/07/2026	B
C318	Site Plan	05/07/2026	B
C319	Site Plan T-21 T-23	05/07/2026	B
C320	Site Plan T-22 T-24 T-25 T-26	05/07/2026	B
C321	Site Plan T-34 T-35 T-36	05/07/2026	B
C322	Site Plan T-37	05/07/2026	B
C323	Site Plan	05/07/2026	B
C324	Site Plan	05/07/2026	B
C325	Site Plan	05/07/2026	B
C326	Site Plan T-59 T-101	05/07/2026	B
C327	Site Plan T-60 T-62	05/07/2026	B
C328	Site Plan T-104	05/07/2026	B
C329	Site Plan T-67 T-68	05/07/2026	B
C330	Site Plan T-73 T-105	05/07/2026	B
C331	Site Plan	05/07/2026	B
C332	Site Plan T-75 T-76 T-77	05/07/2026	B
C333	Site Plan T-78 T-79 T-80	05/07/2026	B
C334	Site Plan T-81 T-84	05/07/2026	B
C335	Site Plan T-44 T-45	05/07/2026	B
C336	Site Plan	05/07/2026	B
C337	Site Plan T-55	05/07/2026	B
C338	Site Plan T-56 T-57	05/07/2026	B
C339	Site Plan T-58	05/07/2026	B
C340	Site Plan T-69	05/07/2026	B
C341	Site Plan T-82 T-83 T-85 T-86	05/07/2026	B
C342	Site Plan T-48 T-87 T-88	05/07/2026	B
C343	Site Plan	05/07/2026	B
C344	Site Plan T-46 T-47	05/07/2026	B
C345	Site Plan	05/07/2026	B
C346	Site Plan T-34 T-52 T-53	05/07/2026	B
C347	Site Plan T-92	05/07/2026	B
C348	Site Plan T-93 T-94	05/07/2026	B
C349	Site Plan	05/07/2026	B
C350	Site Plan	05/07/2026	B
C351	Site Plan T-49	05/07/2026	B
C352	Site Plan T-50 T-51	05/07/2026	B
C400	Plan and Profile Index	05/07/2026	B
C401	Road AA - Sta. 0+00.00 to End T-4	05/07/2026	B
C402	Road AB - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C403	Road AB - Sta. 18+00.00 to 37+00.00	05/07/2026	B
C404	Road AB - Sta. 37+00.00 to 55+00.00	05/07/2026	B
C405	Road AB - Sta. 55+00.00 to End T-40	05/07/2026	B
C406	Road AC - Sta. 0+00.00 to End T-39	05/07/2026	B

Sheet List Table

Sheet Number	Sheet Title	Last Rev Date	Last Rev
C407	Road AD - Sta. 0+00.00 to End T-42	05/07/2026	B
C408	Road BA - Sta. 0+00.00 to End T-13	05/07/2026	B
C409	Road BB - Sta. 0+00.00 to 18+00.00 T-12	05/07/2026	B
C410	Road BB - Sta. 18+00.00 to 36+00.00	05/07/2026	B
C411	Road BB - Sta. 36+00.00 to End T-15	05/07/2026	B
C412	Road BC - Sta. 0+00.00 to 17+50.00	05/07/2026	B
C413	Road BC - Sta. 17+50.00 to 35+00.00 T-89	05/07/2026	B
C414	Road BC - Sta. 35+00.00 to 53+00.00	05/07/2026	B
C415	Road BC - Sta. 53+00.00 to End T-90	05/07/2026	B
C416	Road BD - Sta. 0+00.00 to 15+00.00	05/07/2026	B
C417	Road BD - Sta. 15+00.00 to End T-108	05/07/2026	B
C418	Road BE - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C419	Road BE - Sta. 18+00.00 to End T-91	05/07/2026	B
C420	Road BF - Sta. 0+00.00 to 17+00.00	05/07/2026	B
C421	Road BF - Sta. 17+00.00 to 35+00.00	05/07/2026	B
C422	Road BF - Sta. 35+00.00 to End T-23	05/07/2026	B
C423	Road BG - Sta. 0+00.00 to End T-21	05/07/2026	B
C424	Road BH - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C425	Road BH - Sta. 18+00.00 to 37+00.00 T-16	05/07/2026	B
C426	Road BH - Sta. 37+00.00 to 50+00.00	05/07/2026	B
C427	Road BH - Sta. 50+00.00 to End T-17	05/07/2026	B
C428	Road BI - Sta. 0+00.00 to 13+50.00	05/07/2026	B
C429	Road BI - Sta. 13+50.00 to End T-18	05/07/2026	B
C430	Road BJ - Sta. 0+00.00 to End T-19	05/07/2026	B
C431	Road CA - Sta. 0+00.00 to End T-24	05/07/2026	B
C432	Road CB - Sta. 0+00.00 to 15+00.00	05/07/2026	B
C433	Road CB - Sta. 15+00.00 to End T-25	05/07/2026	B
C434	Road CC - Sta. 0+00.00 to End T-26	05/07/2026	B
C435	Road CD - Sta. 0+00.00 to End T-36	05/07/2026	B
C436	Road CE - Sta. 0+00.00 to 17+00.00	05/07/2026	B
C437	Road CE - Sta. 17+00.00 to 37+00.00	05/07/2026	B
C438	Road CE - Sta. 37+00.00 to 54+00.00	05/07/2026	B
C439	Road CE - Sta. 54+00.00 to 71+50.00	05/07/2026	B
C440	Road CE - Sta. 71+50.00 to 90+00.00 T-33	05/07/2026	B
C441	Road CE - Sta. 90+00.00 to End T-31	05/07/2026	B
C442	Road CF - Sta. 0+00.00 to End T-37	05/07/2026	B
C443	Road DA - Sta. 0+00.00 to End T-104	05/07/2026	B
C444	Road DB - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C445	Road DB - Sta. 18+00.00 to 37+00.00	05/07/2026	B
C446	Road DB - Sta. 37+00.00 to 54+00.00	05/07/2026	B
C447	Road DB - Sta. 54+00.00 to End T-69	05/07/2026	B
C448	Road DC - Sta. 0+00.00 to End T-67	05/07/2026	B
C449	Road DD - Sta. 0+00.00 to 15+50.00	05/07/2026	B
C450	Road DD - Sta. 15+50.00 to 34+00.00	05/07/2026	B
C451	ROAD DD - Sta. 34+00.00 to 52+00.00	05/07/2026	B
C452	ROAD DD - Sta. 52+00.00 to End T-73	05/07/2026	B
C453	ROAD DE - Sta. 0+00.00 to End T-105	05/07/2026	B
C454	ROAD EA - Sta. 0+00.00 to 19+50.00 T-77	05/07/2026	B
C455	ROAD EA - Sta. 19+50.00 to 36+00.00	05/07/2026	B
C456	ROAD EA - Sta. 36+00.00 to 50+00.00	05/07/2026	B
C457	ROAD EA - Sta. 50+00.00 to End T-76	05/07/2026	B
C458	ROAD EB - Sta. 0+00.00 to End T-75	05/07/2026	B
C459	ROAD EC - Sta. 0+00.00 to End T-78	05/07/2026	B
C460	ROAD ED - Sta. 0+00.00 to 17+00.00	05/07/2026	B
C461	ROAD ED - Sta. 17+00.00 to 36+00.00	05/07/2026	B
C462	ROAD ED - Sta. 36+00.00 to End T-80	05/07/2026	B
C463	ROAD EE - Sta. 0+00.00 to End T-79	05/07/2026	B
C464	ROAD EF - Sta. 0+00.00 to End T-81	05/07/2026	B
C465	ROAD FA - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C466	ROAD FA - Sta. 18+00.00 to 36+00.00	05/07/2026	B
C467	ROAD FA - Sta. 36+00.00 to 54+00.00	05/07/2026	B
C468	ROAD FA - Sta. 54+00.00 to End T-44	05/07/2026	B
C469	ROAD FB - Sta. 0+00.00 to End T-45	05/07/2026	B
C470	ROAD FC - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C471	ROAD FC - Sta. 18+00.00 to 30+00.00	05/07/2026	B
C472	ROAD FC - Sta. 30+00.00 to End T-101	05/07/2026	B
C473	ROAD FD - Sta. 0+00.00 to End T-59	05/07/2026	B

Sheet List Table

Sheet Number	Sheet Title	Last Rev Date	Last Rev
C474	ROAD FE - Sta. 0+00.00 to 17+50.00	05/07/2026	B
C475	ROAD FE - Sta. 17+50.00 to End T-62	05/07/2026	B
C476	ROAD FF - Sta. 0+00.00 to 19+00.00	05/07/2026	B
C477	ROAD FF - Sta. 19+00.00 to End T-60	05/07/2026	B
C478	ROAD FG - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C479	ROAD FG - Sta. 18+00.00 to 36+50.00	05/07/2026	B
C480	ROAD FG - Sta. 36+50.00 to End T-54	05/07/2026	B
C481	ROAD FH - Sta. 0+00.00 to 18+60.00 T-55	05/07/2026	B
C482	ROAD FH - Sta. 18+60.00 to 36+50.00	05/07/2026	B
C483	ROAD FH - Sta. 36+50.00 to 55+00.00	05/07/2026	B
C484	ROAD FH - Sta. 55+00.00 to 72+00.00	05/07/2026	B
C485	ROAD FH - Sta. 72+00.00 to 82+50.00	05/07/2026	B
C486	ROAD FH - Sta. 82+50.00 to End T-58	05/07/2026	B
C487	ROAD FI - Sta. 0+00.00 to End T-56	05/07/2026	B
C488	ROAD GA - Sta. 0+00.00 to 11+00.00	05/07/2026	B
C489	ROAD GA - Sta. 11+00.00 to End T-92	05/07/2026	B
C490	ROAD GB - Sta. 0+00.00 to End T-93	05/07/2026	B
C491	ROAD GC - Sta. 0+00.00 to End T-94	05/07/2026	B
C492	ROAD GD - Sta. 0+00.00 to 15+00.00	05/07/2026	B
C493	ROAD GD - Sta. 15+00.00 to End T-47	05/07/2026	B
C494	ROAD GE - Sta. 0+00.00 to End T-46	05/07/2026	B
C495	ROAD GF - Sta. 0+00.00 to End T-49	05/07/2026	B
C496	ROAD GG - Sta. 0+00.00 to End T-50	05/07/2026	B
C497	ROAD GH - Sta. 0+00.00 to End T-52	05/07/2026	B
C498	ROAD GI - Sta. 0+00.00 to 18+00.00	05/07/2026	B
C499	ROAD GI - Sta. 18+00.00 to End T-53	05/07/2026	B
C501	Public Improvement 1	05/07/2026	B
C502	Public Improvement 2	05/07/2026	B
C503	Public Improvement 3	05/07/2026	B
C504	Public Improvement 4	05/07/2026	B
C505	Public Improvement 5	05/07/2026	B
C506	Public Improvement 6	05/07/2026	B
C507	Public Improvement 7	05/07/2026	B
C508	Public Improvement 8 and 9	05/07/2026	B
C700	Construction Details	05/07/2026	B
C701	Construction Details	05/07/2026	B
C702	Construction Details	05/07/2026	B
C703	Construction Details	05/07/2026	B
C704	Construction Details	05/07/2026	B
C705	Construction Details	05/07/2026	B
C706	Construction Details	05/07/2026	B
C707	Construction Details	05/07/2026	B
C708	Construction Details	05/07/2026	B
C709	Construction Details	05/07/2026	B
C710	Construction Details	05/07/2026	B
C711	Construction Details	05/07/2026	B
C712	Construction Details	05/07/2026	B
C713	Construction Notes	05/07/2026	B
C714	Construction Notes	05/07/2026	B
C715	Erosion and Sediment Control	05/07/2026	B

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392 County Road 50
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B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project

Haakon County, South Dakota

Sheet Index

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C002

REV: B

\\westwoodps.local\Global Projects\0015504\05_CAD_Civil\0015504_C-CV.dwg 5/7/2026 5:11 PM Hector Rodriguez Chavez

TURBINE INDEX TABLE

NAME	TYPE	NORTHING	EASTING	LONGITUDE	LATITUDE	Existing Ground Pad Elevation at Turbine Pin (ft)	Finished Ground Pad Elevation at Turbine Pin (ft)
T-4	PRIMARY	755066.97	1586503.70	-101.7948258	44.3956854	2504.57	2506.20
T-12	PRIMARY	728180.23	1587288.55	-101.7900196	44.3219835	2578.63	2581.36
T-13	PRIMARY	729509.55	1588817.31	-101.7842678	44.3257028	2530.05	2530.97
T-15	PRIMARY	726134.63	1586041.92	-101.7946447	44.3163131	2596.56	2597.95
T-16	PRIMARY	725659.89	1591386.56	-101.7741964	44.3152672	2529.63	2529.02
T-17	PRIMARY	726436.57	1592976.54	-101.7681739	44.3174729	2510.98	2512.05
T-18	PRIMARY	722791.00	1589313.49	-101.7819243	44.3072999	2583.61	2582.96
T-19	PRIMARY	720799.60	1589163.65	-101.7823639	44.3018310	2602.91	2602.02
T-21	PRIMARY	718558.05	1582753.50	-101.8066931	44.2953738	2620.82	2620.13
T-23	PRIMARY	716638.18	1583330.47	-101.8043600	44.2901363	2642.95	2642.33
T-24	PRIMARY	715100.35	1588554.82	-101.7843088	44.2861706	2599.97	2595.05
T-25	PRIMARY	716060.45	1590029.23	-101.7787431	44.2888744	2591.08	2589.35
T-26	PRIMARY	716646.51	1592378.87	-101.7698102	44.2905936	2567.82	2561.50
T-31	PRIMARY	722529.09	1605773.44	-101.7190383	44.3073520	2523.04	2521.68
T-33	PRIMARY	721494.34	1604280.25	-101.7246753	44.3044455	2543.82	2545.56
T-36	PRIMARY	718477.74	1602366.47	-101.7317907	44.2960837	2559.85	2564.28
T-37	PRIMARY	714793.46	1607151.70	-101.7132830	44.2861983	2556.54	2555.37
T-39	PRIMARY	751406.02	1585964.01	-101.7966434	44.3856190	2568.75	2566.70
T-40	PRIMARY	750106.39	1589638.08	-101.7825052	44.3822313	2543.05	2542.02
T-42	PRIMARY	747555.72	1586058.06	-101.7960243	44.3750638	2544.81	2550.09
T-44	PRIMARY	707746.64	1562131.66	-101.8846692	44.2646917	2653.12	2650.69
T-45	PRIMARY	708661.06	1563663.18	-101.8788889	44.2672780	2608.77	2608.94
T-46	PRIMARY	700053.82	1564275.06	-101.8759431	44.2437024	2728.69	2727.10
T-47	PRIMARY	701126.50	1565700.49	-101.8705804	44.2467169	2737.83	2739.22
T-49	PRIMARY	698171.59	1569753.78	-101.8549083	44.2388172	2662.15	2664.36
T-50	PRIMARY	697238.31	1573499.79	-101.8405525	44.2364449	2625.02	2629.37
T-52	PRIMARY	700238.57	1573834.89	-101.8394816	44.2446904	2720.13	2720.78
T-53	PRIMARY	701875.00	1574691.06	-101.8363280	44.2492212	2717.56	2717.94
T-54	PRIMARY	703324.91	1576333.86	-101.8301592	44.2532792	2660.29	2659.89
T-55	PRIMARY	705099.04	1576536.06	-101.8295096	44.2581551	2680.68	2679.63
T-56	PRIMARY	704683.29	1580204.13	-101.8154828	44.2571953	2659.40	2659.71
T-58	PRIMARY	705300.32	1583900.64	-101.8014176	44.2590677	2706.75	2690.08
T-59	PRIMARY	713585.29	1580920.19	-101.8133556	44.2816457	2612.08	2612.30
T-60	PRIMARY	710149.54	1584274.95	-101.8003160	44.2723858	2666.50	2665.43
T-62	PRIMARY	712550.85	1583984.28	-101.8015876	44.2789578	2660.69	2658.02
T-67	PRIMARY	711941.84	1604225.88	-101.7242719	44.2782432	2617.81	2616.60
T-69	PRIMARY	707603.03	1603965.41	-101.7249887	44.2663310	2702.94	2702.75
T-73	PRIMARY	709335.98	1612437.87	-101.6927582	44.2714689	2566.84	2566.47
T-75	PRIMARY	711908.19	1621111.64	-101.6598047	44.2789086	2541.21	2541.10
T-76	PRIMARY	709946.54	1620681.73	-101.6613263	44.2735094	2538.93	2538.47
T-77	PRIMARY	712835.74	1623005.46	-101.6526308	44.2815354	2561.66	2557.56
T-78	PRIMARY	712842.82	1625955.86	-101.6413668	44.2816828	2557.78	2556.05
T-79	PRIMARY	712803.91	1628884.53	-101.6301830	44.2817021	2539.52	2540.71
T-80	PRIMARY	709544.48	1628448.79	-101.6316520	44.2727435	2543.58	2540.89
T-81	PRIMARY	710174.26	1630562.14	-101.6236219	44.2745612	2557.38	2556.25
T-89	PRIMARY	725515.56	1584030.34	-101.8022872	44.3145179	2607.66	2607.76
T-90	PRIMARY	723568.61	1584168.11	-101.8016295	44.3091848	2608.28	2609.50
T-91	PRIMARY	720339.78	1583404.55	-101.8043275	44.3002921	2617.78	2617.63
T-92	PRIMARY	697260.44	1549415.51	-101.9324314	44.2352701	2758.63	2757.82
T-93	PRIMARY	698209.79	1551002.60	-101.9264465	44.2379575	2772.24	2772.03
T-94	PRIMARY	698314.94	1553919.05	-101.9153281	44.2383988	2765.51	2765.49
T-101	PRIMARY	710994.89	1577866.08	-101.8248380	44.2743912	2599.19	2600.39
T-104	PRIMARY	713177.31	1600913.37	-101.7369977	44.2814788	2561.28	2562.11
T-105	PRIMARY	712763.75	1612643.85	-101.6921860	44.2808797	2521.13	2521.17
T-108	PRIMARY	722198.50	1583331.52	-101.8047322	44.3053864	2622.54	2622.55

Coordinate System: South Dakota South NAD83 (2011) SPCS US Feet

TURBINE INDEX NOTES:

1. TURBINE COORDINATES PROVIDED ARE FOR VERIFICATION PURPOSES. CONTRACTOR SHALL CONFIRM COORDINATES WITH OWNER AND CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION OR STAKING.
2. CONFIRM PEDESTAL REVEAL AND ELEVATIONS WITH FOUNDATION ENGINEER PRIOR TO CONSTRUCTION.
3. REFER TO DETAIL TS-01 ON SHEET C701 FOR FINAL GRADING AROUND THE TURBINE.
4. EXISTING GROUND ELEVATION AT TURBINE CENTER PIN IS BASED ON FOLLOWING: 0015504.01 Philip Wind_2ft Design Surface.241126.LAS ; 1/21/2026
5. GRADED CONSTRUCTION PAD ELEVATION IS DEFINED AS THE GROUND ELEVATION AT THE TURBINE CENTER PIN OF THE MASS GRADED CONSTRUCTION PAD PRIOR TO FOUNDATION EXCAVATION.
6. MINIMUM PEDESTAL ELEVATION PROVIDES 1' FREEBOARD ABOVE THE 100-YEAR 24-HR FLOOD DEPTH.
7. TURBINE COORDINATES DETERMINED FROM *Philip_L041_N163_55_WTGs.shp* PROVIDED ON 2/11/2026.

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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

Turbine Index

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C003
REV: B

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DRAINAGE CROSSING INDEX TABLE

CROSSING ID	LOW WATER CROSSING (TYPE)	SHEER STRESS (psf)	LWC LENGTH (ft)	CULVERT SIZE OPTIONS (in)	DESIGN RECOMMENDATION	10 YEAR DEPTH AT LWC	DETAIL REFERENCE	PLAN SHEET NUMBER
DC-02	STANDARD DUTY	0.7	25	1-18"	LWC	0.2	DN-11	C346
DC-03	STANDARD DUTY	0.5	45	1-30"; 2-24"; 3-18"	LWC	0.2	DN-11	C346
DC-04	STANDARD DUTY	0.3	120	1-36"; 2-24"; 4-18"	LWC	0.7	DN-11	C337, C346
DC-05	STANDARD DUTY	0.6	55	1-18"	LWC	0.3	DN-11	C335
DC-06	STANDARD DUTY	0.6	205	1-18"	LWC	0.6	DN-11	C335
DC-07	STANDARD DUTY	0.8	220	2-96"; 3-78"; 4-72"	LWC	3.2	DN-11	C335
DC-08	N/A	N/A	N/A	1-42"; 2-30"; 3-24"	ENHANCED ROAD REINFORCEMENT	0.4	SS-01	C327
DC-11	STANDARD DUTY	0.7	65	1-24"; 2-18"	LWC	0.4	DN-11	C320
DC-12	STANDARD DUTY	0.5	60	1-24"; 2-18"	LWC	0.3	DN-11	C312
DC-14	STANDARD DUTY	0.9	50	1-30"; 2-24"; 3-18"	LWC	0.6	DN-11	C319
DC-15	STANDARD DUTY	0.4	205	1-30"; 2-24"; 3-18"	LWC	0.3	DN-11	C312
DC-16	STANDARD DUTY	0.9	35	1-18"	1-18"	0.2	DN-03	C307
DC-17	STANDARD DUTY	0.9	140	1-30"; 2-24"; 3-18"	3-18"	0.5	DN-03	C307
DC-18	STANDARD DUTY	0.5	245	1-24"; 2-18"	LWC	0.3	DN-11	C307
DC-19	STANDARD DUTY	0.9	130	1-24"; 2-18"	LWC	0.2	DN-11	C307
DC-23	STANDARD DUTY	0.7	110	1-30"; 2-24"; 4-18"	LWC	0.3	DN-11	C314, C315
DC-24	STANDARD DUTY	0.8	50	1-36"; 2-30"; 3-24"	LWC	0.3	DN-11	C314, C315
DC-27	STANDARD DUTY	0.6	100	1-24"; 2-18"	2-18"	0.2	DN-03	C321, C322
DC-28	STANDARD DUTY	1.2	105	1-36"; 2-24"; 4-18"	LWC	0.5	DN-11	C321, C322
DC-29	STANDARD DUTY	1.4	125	1-30"; 2-24"; 4-18"	LWC	0.9	DN-11	C321, C322, C328
DC-30	STANDARD DUTY	0.9	110	1-36"; 2-24"; 4-18"	LWC	0.6	DN-11	C328, C329
DC-31	STANDARD DUTY	1.4	110	1-36"; 2-24"	LWC	0.8	DN-11	C328, C329
DC-33	STANDARD DUTY	0.7	85	1-30"; 2-24"; 3-18"	2-24"	1.1	DN-03	C322
DC-34	STANDARD DUTY	1.3	60	1-36"; 2-24"	LWC	0.5	DN-11	C330, C331
DC-35	STANDARD DUTY	0.5	180	1-24"; 2-18"	LWC	0.3	DN-11	C330
DC-36	STANDARD DUTY	0.7	85	1-24"; 2-18"	LWC	0.3	DN-11	C330
DC-37	STANDARD DUTY	1.2	70	1-42"; 2-36"; 3-30"	3-30"	1.3	DN-03	C332
DC-38	STANDARD DUTY	1.0	100	1-24"; 2-18"	LWC	0.5	DN-11	C333, C334
DC-39	STANDARD DUTY	0.9	85	1-24"; 2-18"	1-24"	0.3	DN-03	C302, C303
DC-40	STANDARD DUTY	0.5	115	1-30"; 2-24"; 4-18"	LWC	0.4	DN-11	C302, C303
DC-48	N/A	N/A	N/A	N/A	ENHANCED ROAD REINFORCEMENT	0.4	SS-01	C327
DC-49	STANDARD DUTY	0.2	20	1-60"; 2-48"; 3-42"	LWC	0.6	DN-11	C338
DC-50	STANDARD DUTY	0.4	60	1-18"	LWC	0.4	DN-11	C335
DC-51	STANDARD DUTY	0.7	45	1-30"; 2-24"; 3-18"	1-30"	0.6	DN-03	C320
DC-52	STANDARD DUTY	0.6	20	1-24"; 2-18"	LWC	0.3	DN-11	C308, C309
DC-53	STANDARD DUTY	0.4	25	1-18"	1-18"	0.4	DN-03	C308, C309
DC-54	STANDARD DUTY	1.0	30	1-24"; 2-18"	1-24"	0.8	DN-03	C309
DC-56	STANDARD DUTY	0.8	20	1-24"; 2-18"	1-24"	0.4	DN-03	C308, C309, C313, C314
DC-59	STANDARD DUTY	0.3	35	1-30"; 2-24"; 3-18"	LWC	0.2	DN-11	C332
DC-60	STANDARD DUTY	0.8	60	1-30"; 2-24"; 3-18"	3-18"	0.7	DN-03	C332
DC-61	STANDARD DUTY	0.5	45	1-24"; 2-18"	1-24"	0.3	DN-03	C332
DC-63	STANDARD DUTY	0.4	40	1-18"	LWC	0.2	DN-11	C333, C334
DC-64	STANDARD DUTY	0.3	20	1-24"; 2-18"	2-18"	0.2	DN-03	C338
DC-65	STANDARD DUTY	0.4	55	1-30"; 2-24"; 3-18"	1-30"	0.4	DN-03	C344
DC-66	STANDARD DUTY	0.6	35	1-24"; 2-18"	1-24"	0.4	DN-03	C328, C329
DC-67	STANDARD DUTY	0.1	105	1-54"; 2-42"; 3-36"	LWC	1	DN-11	C337, C346
DC-68	STANDARD DUTY	0.4	25	1-30"; 2-24"; 3-18"	LWC	0.5	DN-11	C316
DC-69	STANDARD DUTY	0.5	70	1-36"; 2-30"; 3-24"	3-24"	0.4	DN-03	C316
DC-70	STANDARD DUTY	0.8	65	1-36"; 2-30"; 3-24"	LWC	1.1	DN-11	C309

CRANE PATH DRAINAGE CROSSING TABLE

CROSSING ID	RECOMMENDED CROSSING TYPE	CULVERT OPTIONS	DETAIL REFERENCE	PLAN SHEET NUMBER
CP-06	Temporary Matting	1-30"; 2-24"; 3-18"	CR-02	C346
CP-09	Temporary Matting	1-24"; 2-18"	CR-02	C319, C327
CP-10	Culvert	1-30"; 2-24"; 4-18"	CR-03	C319
CP-11	Either	1-18"	CR-02 or CR-03	C319
CP-31	Either	1-24"; 2-18"	CR-02 or CR-03	C348
CP-32	Temporary Matting	1-24"; 2-18"	CR-02	C326
CP-33	Temporary Matting	1-42"; 2-30"; 3-24"	CR-02	C326, C338
CP-34	Either	1-18"	CR-02 or CR-03	C326, C338
CP-35	Either	1-24"; 2-18"	CR-02 or CR-03	C326, C327, C328, C329
CP-36	Temporary Matting	1-24"; 2-18"	CR-02	C320
CP-37	Either	1-18"	CR-02 or CR-03	C307, C308
CP-40	Temporary Matting	1-30"; 2-24"; 3-18"	CR-02	C351, C352
CP-41	Temporary Matting	1-18"	CR-02	C322, C329
CP-42	Temporary Matting	1-48"; 2-36"; 3-30"	CR-02	C322, C329
CP-43	Either	1-18"	CR-02 or CR-03	C302
CP-44	Either	1-18"	CR-02 or CR-03	C302
CP-45	Temporary Matting	1-18"	CR-02	C348

ENTRANCE DRAINAGE CROSSING TABLE

CROSSING ID	CULVERT (DIAMETER)	DETAIL REFERENCE	PLAN SHEET NUMBER
EC-01	1-18"	DN-03	C347
EC-02	1-18"	DN-03	C348
EC-03	1-18"	DN-03	C348
EC-05	1-18"	DN-03	C326
EC-06	1-42"; 2-30"; 4-24"	DN-03	C319, C327
EC-09	1-18"	DN-03	C321, C328
EC-10	1-18"	DN-03	C322, C329
EC-12	1-24"; 2-18"	DN-03	C333
EC-13	1-18"	DN-03	C302
EC-14	1-18"	DN-03	C301
EC-15	1-18"	DN-03	C325, C326
EC-16	1-18"	DN-03	C320
EC-17	1-18"	DN-03	C320
EC-18	1-18"	DN-03	C320
EC-19	1-18"	DN-03	C307, C308
EC-20	1-18"	DN-03	C307, C308
EC-21	1-18"	DN-03	C307, C308
EC-23	1-18"	DN-03	C323, C330, C331
EC-25	1-18"	DN-03	C345, C351

DRAINAGE CROSSING GENERAL NOTES:

1. DRAINAGE CROSSINGS SHOWN ON THE PLANS ARE BASED UPON OBSERVATION OF TOPOGRAPHIC CONTOURS, AERIAL IMAGERY, PUBLIC GIS DATA, AND ENGINEERING ANALYSIS.
2. ADDITIONAL CROSSINGS MAY BE NEEDED WHERE CONCENTRATED FLOWS ARE ANTICIPATED DUE TO CONSTRUCTION ACTIVITIES, OR WHERE FIELD CONDITIONS INDICATE AN INCISED CHANNEL NOT SHOWN ON THE CONTOURS. CONTACT ENGINEER FOR RECOMMENDATIONS.
3. IF MULTIPLE DRAINAGE CROSSING OPTIONS ARE PROVIDED, CONTRACTOR SHALL USE DISCRETION TO SELECT THE CULVERT SIZE OPTION THAT BEST FITS THE EXISTING CHANNEL GEOMETRY WHILE MAINTAINING MINIMUM COVER REQUIREMENTS.
4. TEMPORARY CRANE PATH CULVERTS ARE IDENTIFIED AT MAJOR DRAINAGE CROSSINGS. AT CONTRACTOR'S DISCRETION AND UNLESS OTHERWISE NOTED, CROSSING WITH CRANE MATS (DETAIL CR-02) IS AN ACCEPTABLE ALTERNATIVE TO INSTALLING A TEMPORARY CULVERT (DETAIL CR-03).
5. DRAINAGE CROSSING DESIGN IS INCLUDED FOR PRIMARY INFRASTRUCTURE ONLY. CONTACT ENGINEER IF ALTERNATE INFRASTRUCTURE REQUIRES CROSSING DESIGN.
6. ENTRANCE CULVERT SIZING TO BE VERIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ) FOR ALL CULVERTS WITHIN THE RIGHT OF WAYS.

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PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELEHER SOUTH DAKOTA 06/17/26

PREPARED FOR:
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BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

Construction Tables

ISSUED FOR PERMIT
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DATE: 05/07/2026
SHEET: C004
REV: B

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EXISTING CULVERT CONDITIONS TABLE

Culvert ID	Haul Route	Size	Material	Additional Cover Recommended	Recommendation
C001	X	18"	CMP	No	No Action Needed
C002	X	18"	CMP	No	No Action Needed
C003	X	30"	CMP	No	Monitor
C004	X	15"	CMP	No	No Action Needed
C005	X	15"	CMP	No	No Action Needed
C006	X	18"	CMP	No	No Action Needed
C007	X	18"	CMP	Yes	Replace
C008	X	36"	CMP	No	No Action Needed
C009	X	24"	CMP	No	No Action Needed
C010	X	36"	CMP	No	No Action Needed
C011	X	36"	CMP	No	Additional Analysis Recommended
C012	X	24"	CMP	No	No Action Needed
C013	X	36"	CMP	No	Monitor
C014	X	36 x 54"	Concrete-Precast	Yes	Additional Analysis Recommended
C015	X	24"	CMP	No	Monitor
C016	X	15"	CMP	No	No Action Needed
C017	X	24"	CMP	No	No Action Needed
C018	X	18"	CMP	No	No Action Needed
C019		18"	CMP	No	No Action Needed
C020		18"	CMP	Yes	No Action Needed
C021		24"	CMP	Yes	No Action Needed
C022		15"	CMP	No	Replace
C023		15"	CMP	No	Replace
C024		15"	CMP	Yes	Replace
C025		15"	CMP	No	No Action Needed
C026		15"	CMP	No	No Action Needed
C027		18"	CMP	No	Monitor
C028		18"	CMP	No	No Action Needed
C029		15"	CMP	No	No Action Needed
C030		18"	CMP	No	Replace
C031		30"	CMP	No	No Action Needed
C032	X	15"	CMP	No	Replace
C033		18"	HDPE	Yes	No Action Needed
C034		15"	CMP	Yes	No Action Needed
C035		15"	HDPE	No	No Action Needed
C036		15"	CMP	No	No Action Needed
C037		15"	CMP	No	No Action Needed
C038		15"	CMP	No	No Action Needed
C039		36"	CMP	No	No Action Needed
C040		48"	CMP	Yes	No Action Needed
C041		48"	CMP	No	Additional Analysis Recommended
C042		12"	CMP	No	Additional Analysis Recommended
C043		24"	CMP	No	No Action Needed
C044		18"	CMP	No	No Action Needed
C045		15"	CMP	No	Additional Analysis Recommended
C046		18"	CMP	No	No Action Needed
C047		24"	CMP	No	No Action Needed
C048		24"	CMP	No	No Action Needed
C049		96"	CMP	No	No Action Needed
C050		24"	CMP	No	No Action Needed
C051		24"	CMP	No	Replace
C052		15"	CMP	No	No Action Needed
C053		24"	CMP	No	No Action Needed
C054		72"	CMP	No	No Action Needed
C055		18"	CMP	No	No Action Needed
C056		15"	CMP	No	No Action Needed
C057		24"	HDPE	No	No Action Needed
C058		24"	HDPE	No	No Action Needed
C059		15"	CMP	No	Replace
C060		18"	CMP	No	Replace
C061		36"	CMP	No	No Action Needed
C062		12"	CMP	No	No Action Needed
C063		18"	CMP	Yes	Protect
C064		30"	CMP	No	Replace
C065		15"	HDPE	No	No Action Needed
C066		30"	CMP	No	No Action Needed
C067		12"	HDPE	No	Monitor
C068		12"	HDPE	No	No Action Needed
C069		24"	CMP	No	No Action Needed
C070		15"	CMP	Yes	Replace
C071		18"	CMP	Yes	No Action Needed
C072	X	18"	CMP	No	No Action Needed
C073	X	18"	CMP	No	No Action Needed
C074	X	12"	CMP	No	Additional Analysis Recommended
C075	X	18"	CMP	No	No Action Needed
C076	X	18"	CMP	No	Monitor
C077	X	18"	CMP	No	Replace
C078	X	18"	CMP	No	No Action Needed
C079	X	18"	CMP	No	No Action Needed
C080	X	18"	CMP	No	Monitor
C081	X	24"	CMP	No	Protect
C082	X	24"	CMP	Yes	Monitor
C083	X	24"	CMP	No	No Action Needed
C084	X	18"	CMP	No	No Action Needed
C085	X	18"	CMP	No	Monitor
C086	X	24"	CMP	No	No Action Needed
C087	X	18"	CMP	No	No Action Needed
C088	X	30"	CMP	No	No Action Needed
C089	X	15"	CMP	Yes	No Action Needed
C090	X	15"	CMP	No	Protect
C091	X	24"	CMP	No	No Action Needed
C092	X	15"	CMP	No	Protect
C093	X	24"	CMP	No	Replace
C094	X	18"	CMP	No	No Action Needed
C095	X	30"	CMP	Yes	Replace
C096	X	15"	CMP	No	Monitor
C097	X	48"	CMP	Yes	No Action Needed
C098	X	15"	CMP	No	No Action Needed
C099	X	15"	CMP	No	Monitor
C100	X	18"	CMP	No	Protect
C101	X	18"	Other (See Notes)	No	Additional Analysis Recommended
C102	X	15"	CMP	No	No Action Needed
C103	X	18"	CMP	No	Monitor
C104	X	15"	CMP	No	No Action Needed
C105	X	12"	CMP	No	Protect
C106	X	15"	CMP	No	No Action Needed
C107	X	15"	CMP	No	Replace
C108		36"	CMP	No	Replace
C109		15"	CMP	No	Protect
C110		24"	CMP	No	No Action Needed
C111		15"	CMP	Yes	Monitor
C112	X	24"	CMP	Yes	No Action Needed
C113	X	24"	CMP	Yes	Protect
C114	X	12"	CMP	No	No Action Needed
C115	X	18"	CMP	No	No Action Needed
C116	X	15"	CMP	No	Additional Analysis Recommended
C117	X	12"	CMP	No	No Action Needed
C118	X	18"	CMP	Yes	Protect
C119	X	12"	CMP	Yes	No Action Needed
C120	X	48"	CMP	Yes	No Action Needed
C121	X	12"	CMP	Yes	No Action Needed
C122	X	18"	CMP	No	No Action Needed
C123	X	18"	CMP	No	No Action Needed
C124	X	51"x66"	CMP	No	No Action Needed
C125	X	51x66"	CMP	No	No Action Needed
C126	X	24"	CMP	No	No Action Needed
C127	X	15"	CMP	No	Protect
C128	X	72"	CMP	Yes	No Action Needed
C129	X	15"	CMP	No	No Action Needed
C130	X	12"	CMP	No	No Action Needed
C131	X	24"	CMP	No	Monitor
C132	X	18"	HDPE	No	No Action Needed
C133	X	24"	CMP	No	No Action Needed
C134	X	15"	CMP	No	Protect
C135	X	15"	CMP	No	Protect
C136	X	15"	CMP	No	No Action Needed
C137	X	18"	CMP	No	No Action Needed
C138	X	15"	CMP	No	Monitor
C139	X	18"	CMP	No	No Action Needed
C140	X	24"	CMP	No	Monitor
C141	X	18"	CMP	No	Monitor
C142	X	18"	CMP	No	No Action Needed
C143	X	36"	CMP	No	No Action Needed
C144	X	72"	CMP	No	No Action Needed
C145	X	15"	CMP	No	No Action Needed
C146	X	24"	CMP	No	Protect
C147	X	18"	CMP	No	Monitor
C148	X	36"	CMP	Yes	No Action Needed
C149	X	18"	CMP	No	No Action Needed
C150	X	30"	CMP	No	Monitor
C151	X	18"	CMP	No	Protect
C152	X	24"	HDPE	No	No Action Needed
C153	X	18"	HDPE	No	No Action Needed
C154	X	42"	CMP	Yes	Monitor
C155	X	48"	CMP	No	No Action Needed
C156	X	54"	CMP	Yes	Protect
C157	X	24"	CMP	No	Protect
C158	X	18"	CMP	No	Replace
C159	X	12"	CMP	No	Protect
C160	X	18"	HDPE	Yes	No Action Needed
C161	X	24"	CMP	No	No Action Needed
162		12"	CMP	Yes	Protect

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Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELEHER SOUTH DAKOTA 06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

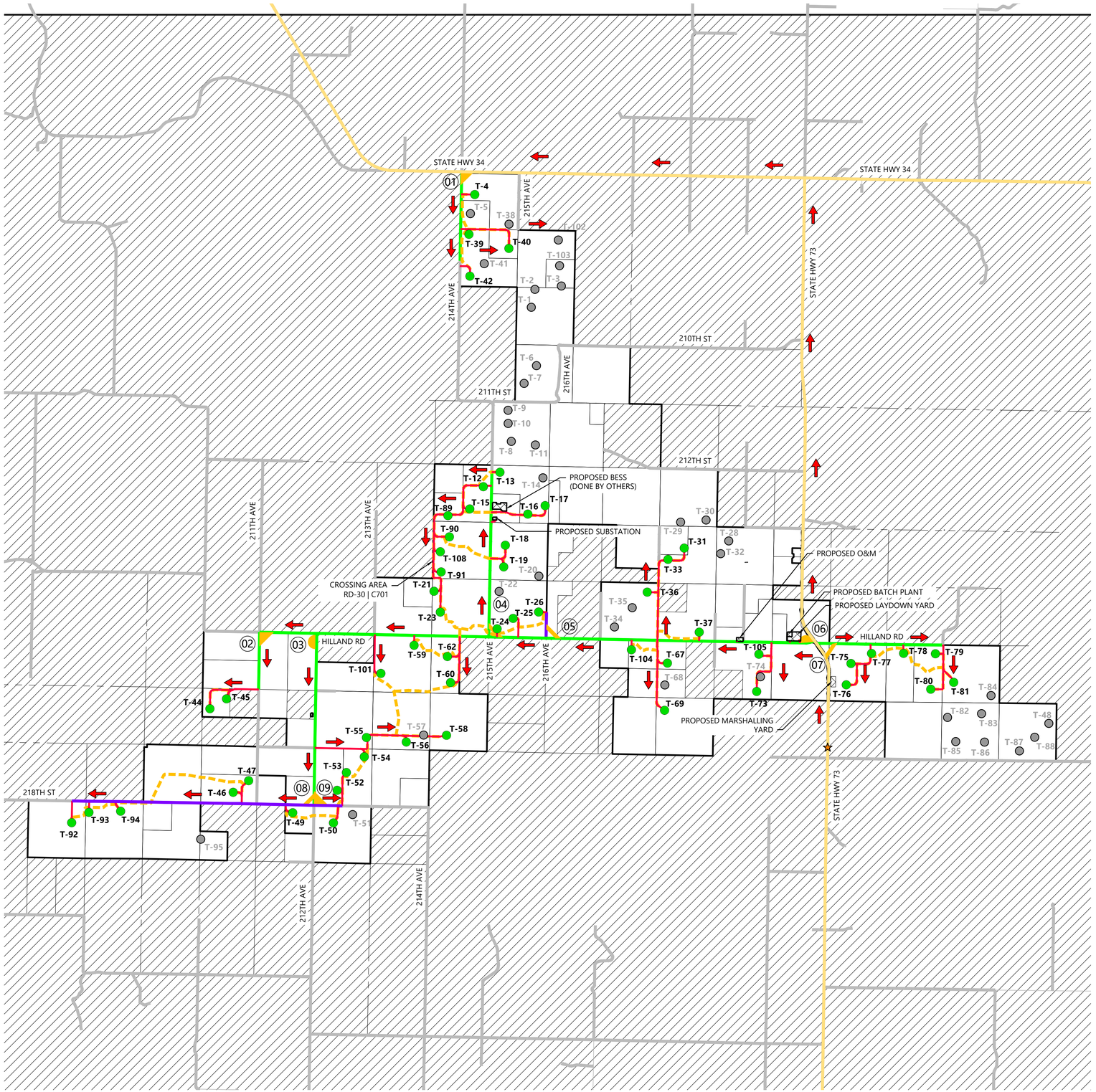
Philip Wind Project
Haakon County, South Dakota

Construction Tables

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C005
REV: B

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LEGEND:

EXISTING:

- NON-PARTICIPATING LAND
- SECTION LINES
- LOCAL ROAD
- HIGHWAY (STATE JURISDICTION)

COMPONENT DELIVERY ROADS:

- GRAVEL SURFACED
- DIRT SURFACED

PROPOSED:

- ## TURBINE LOCATION
- ## ALTERNATE TURBINE LOCATION
- ACCESS ROAD
- CRANE PATH
- DELIVERY ORIGIN POINT
- DELIVERY ROUTE (INGRESS)
- PUBLIC INTERSECTION IMPROVEMENT
- (##) INTERSECTION ID

ITEM	QUANTITY
PUBLIC TO PRIVATE INFILL INTERSECTION IMPROVEMENT	3
PUBLIC TO PRIVATE CUT THROUGH IMPROVEMENTS	4
PUBLIC TO PRIVATE JUG HANDLE IMPROVEMENTS	2
PRIVATE TO PRIVATE INFILL INTERSECTION IMPROVEMENT	35
PRIVATE TO PRIVATE CUT THROUGH IMPROVEMENTS	1
PRIVATE TO PRIVATE JUG HANDLE IMPROVEMENTS	3
LENGTH OF GRAVEL DELIVERY ROADS	107,500 LF
LENGTH OF DIRT DELIVERY ROADS	27,250 LF
LENGTH OF PROPOSED ACCESS ROADS	137,750 LF

Westwood

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06/17/26

PREPARED FOR:

Invenergy

BLATTNER ENERGY

392 County Road 50
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0' 5000' 10000' 15000'

Philip Wind Project

Haakon County, South Dakota

Delivery Flow Plan

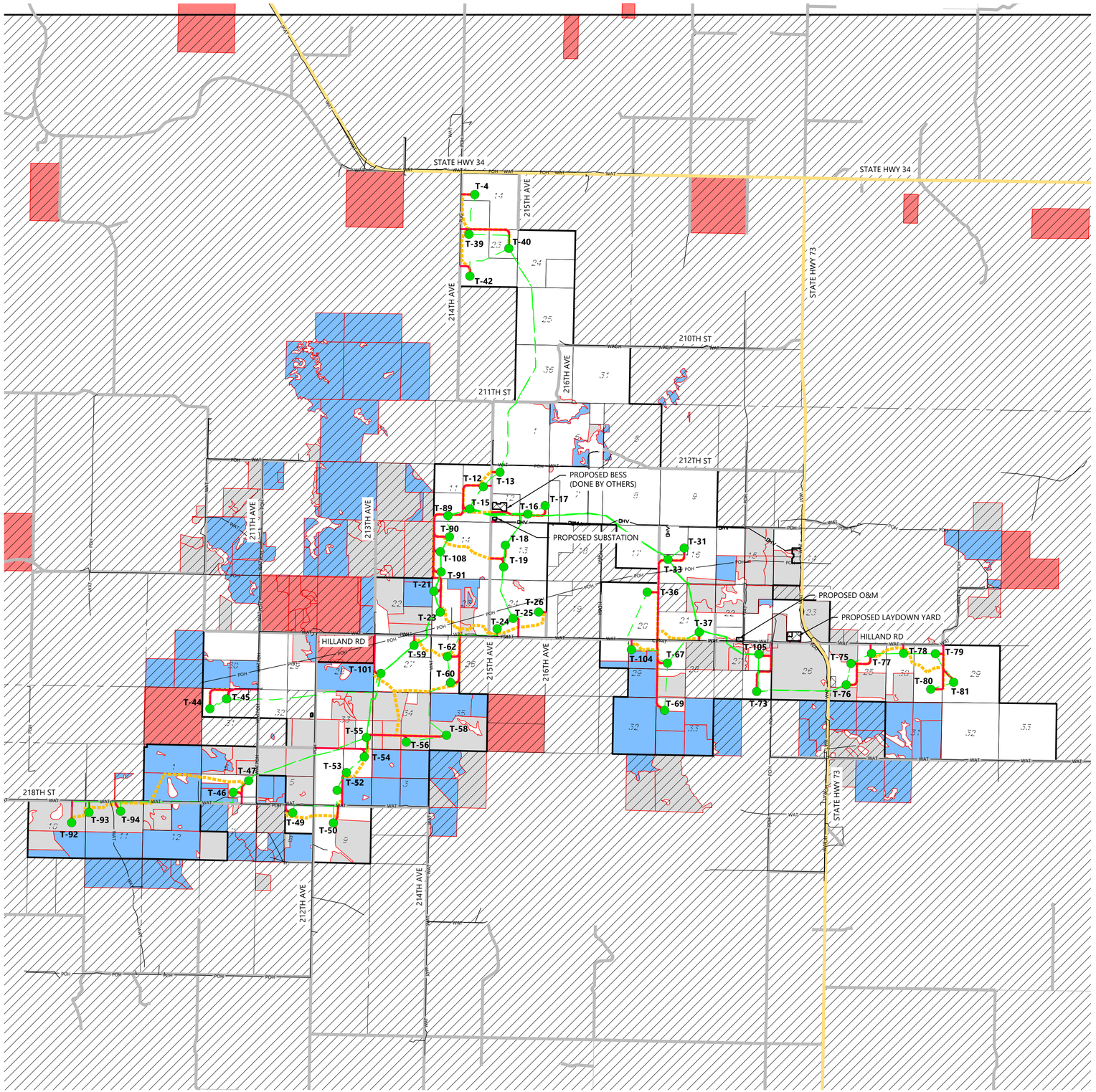
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C200

REV: B

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LEGEND:

EXISTING:

- NON-PARTICIPATING LAND
- SECTION LINES
- 16 SECTION NUMBER
- POH TRANSMISSION LINE
- WAT WATER LINE
- LOCAL ROAD
- HIGHWAY (STATE JURISDICTION)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
- ENVIRONMENTALLY SENSITIVE AREA - AVOID
- GIS PROTECTED AREA OF THE US (PADUS) - AVOID

PROPOSED:

- ## TURBINE LOCATION
- ACCESS ROAD
- CRANE PATH
- UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PROJECT FACILITIES

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Philip Wind Project

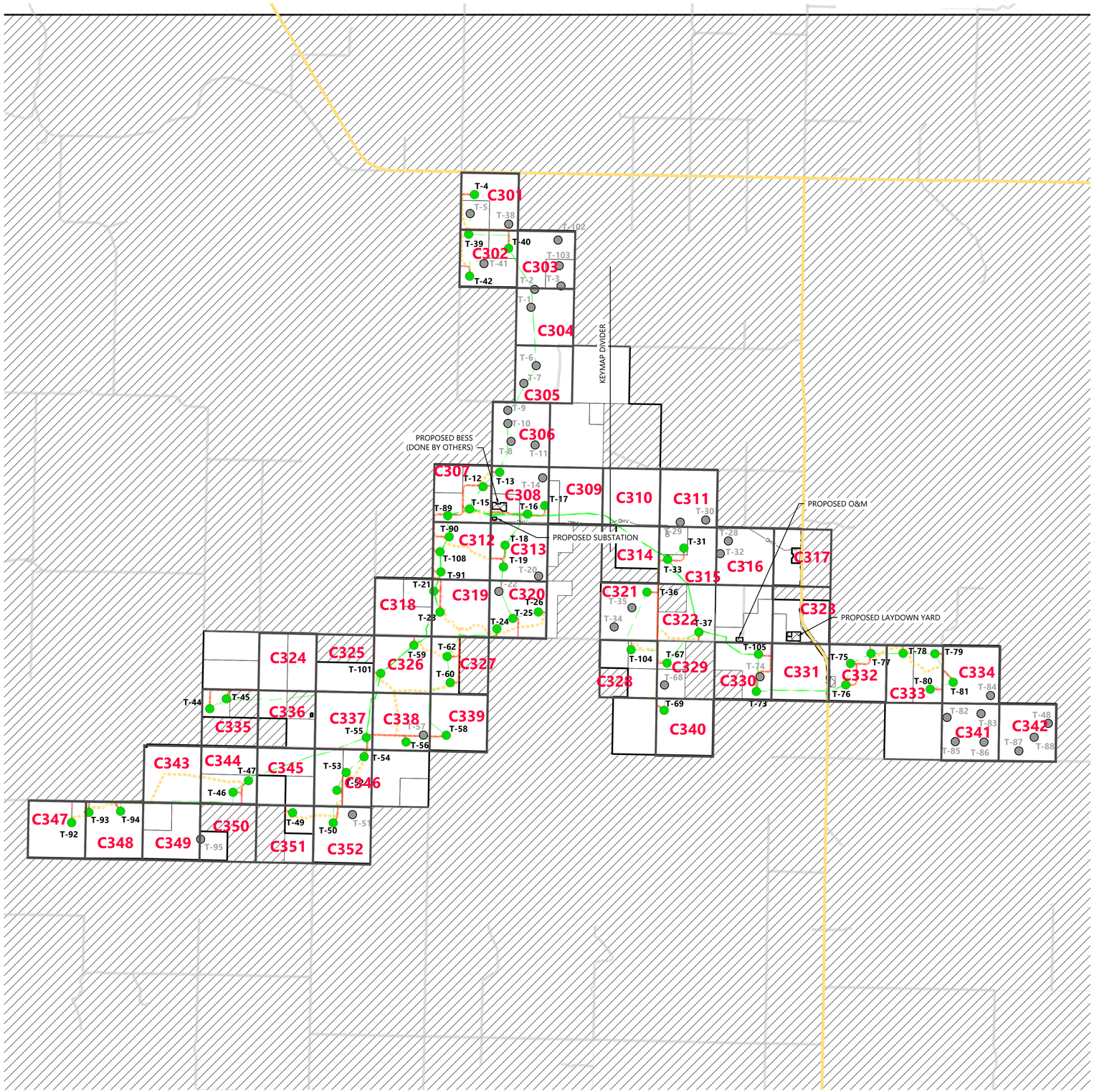
Haakon County, South Dakota

Overall Site Plan

ISSUED FOR PERMIT
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DATE: 05/07/2026
SHEET: C201
REV: B

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LEGEND:

EXISTING:

- NON-PARTICIPATING LAND
- POH — TRANSMISSION LINE
- GAS — GAS PIPELINE
- LOCAL ROAD
- HIGHWAY (STATE JURISDICTION)

PROPOSED:

- ## — TURBINE LOCATION
- ACCESS ROAD
- CRANE PATH
- UNDERGROUND COLLECTION
- OHV — OVERHEAD TRANSMISSION
- PROJECT FACILITIES

C3XX — SHEET VIEWPORT AND NUMBER REFERENCE

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Philip Wind Project

Haakon County, South Dakota

Site Plan Index

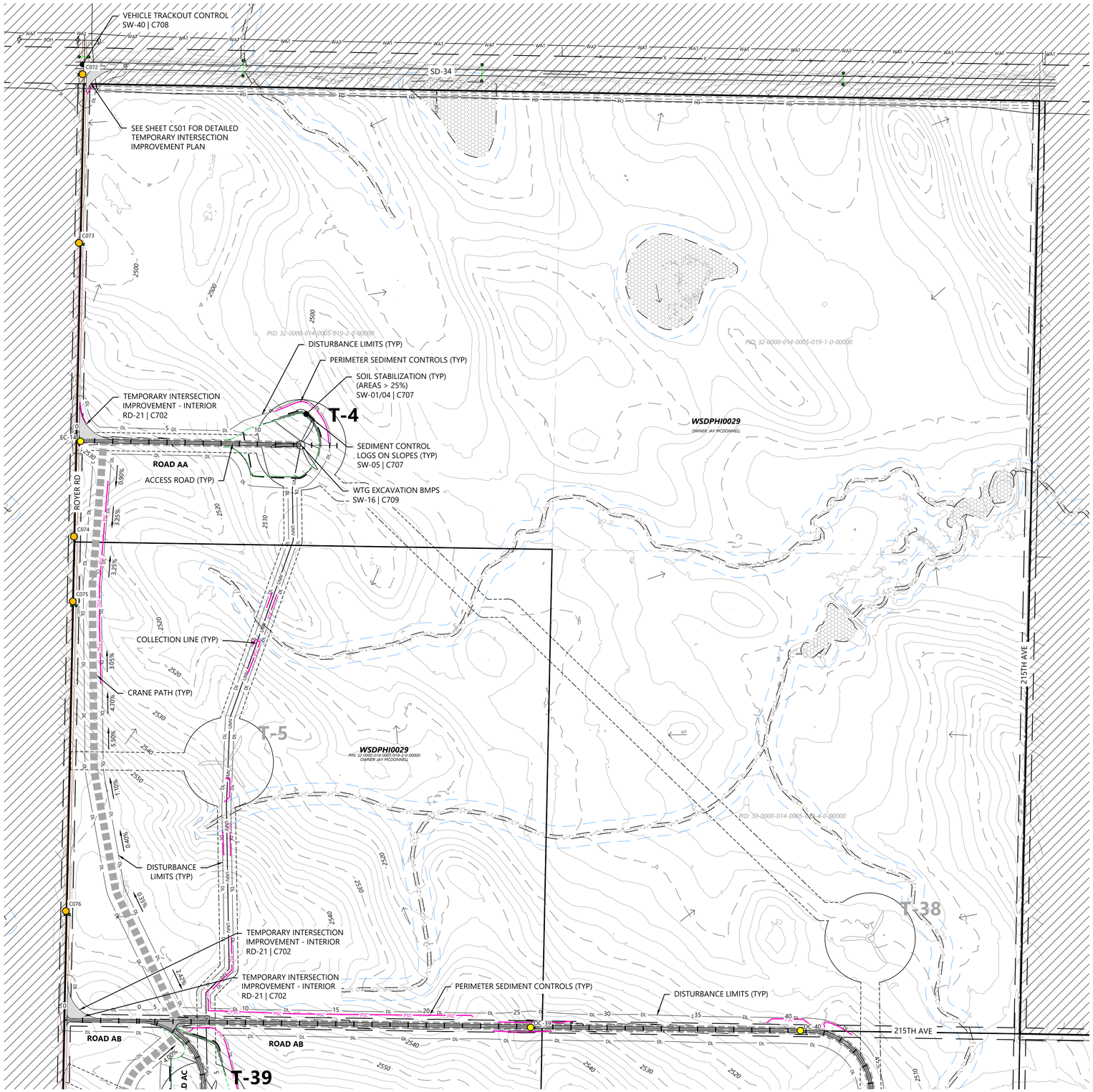
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DATE: 05/07/2026

SHEET: C300

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
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- PERIMETER SEDIMENT CONTROL (PSC)
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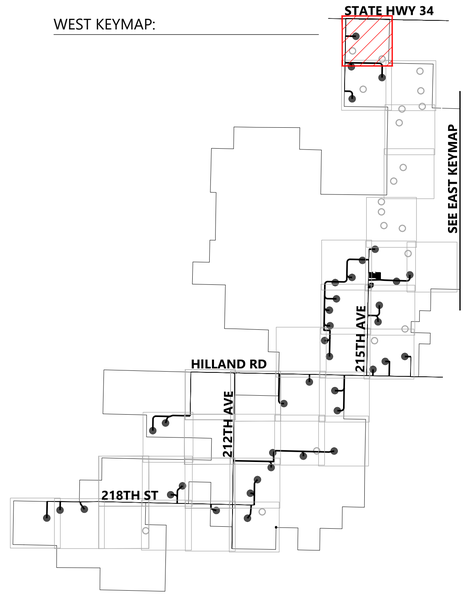
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   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

WEST KEYMAP:



0' 300' 600' 900'

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392 County Road 50
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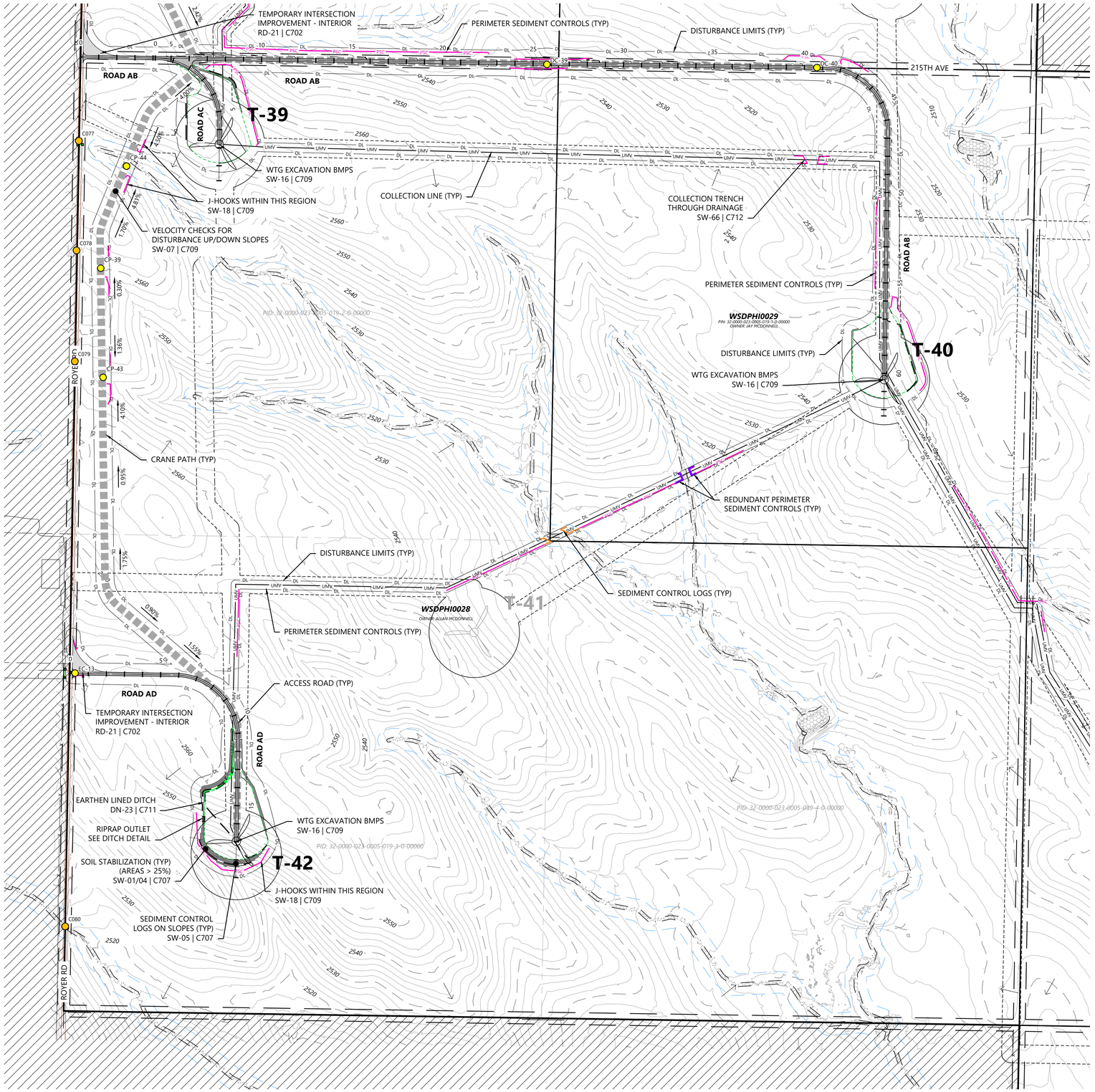
Philip Wind Project
Haakon County, South Dakota

Site Plan T-4 T-5 T-38

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DATE: 05/07/2026
SHEET: C301
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
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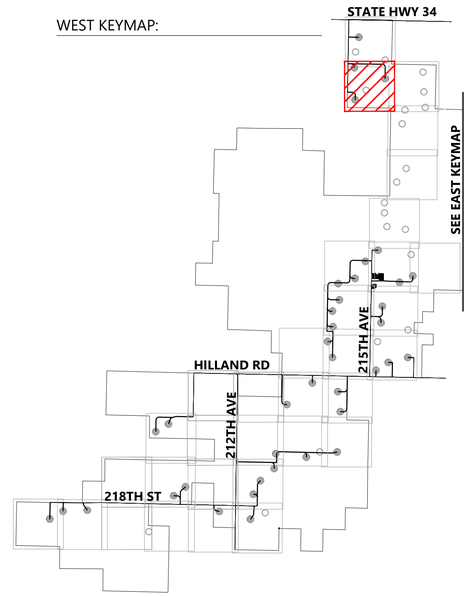
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WEST KEYMAP:



0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-39 T-40 T-41 T-42

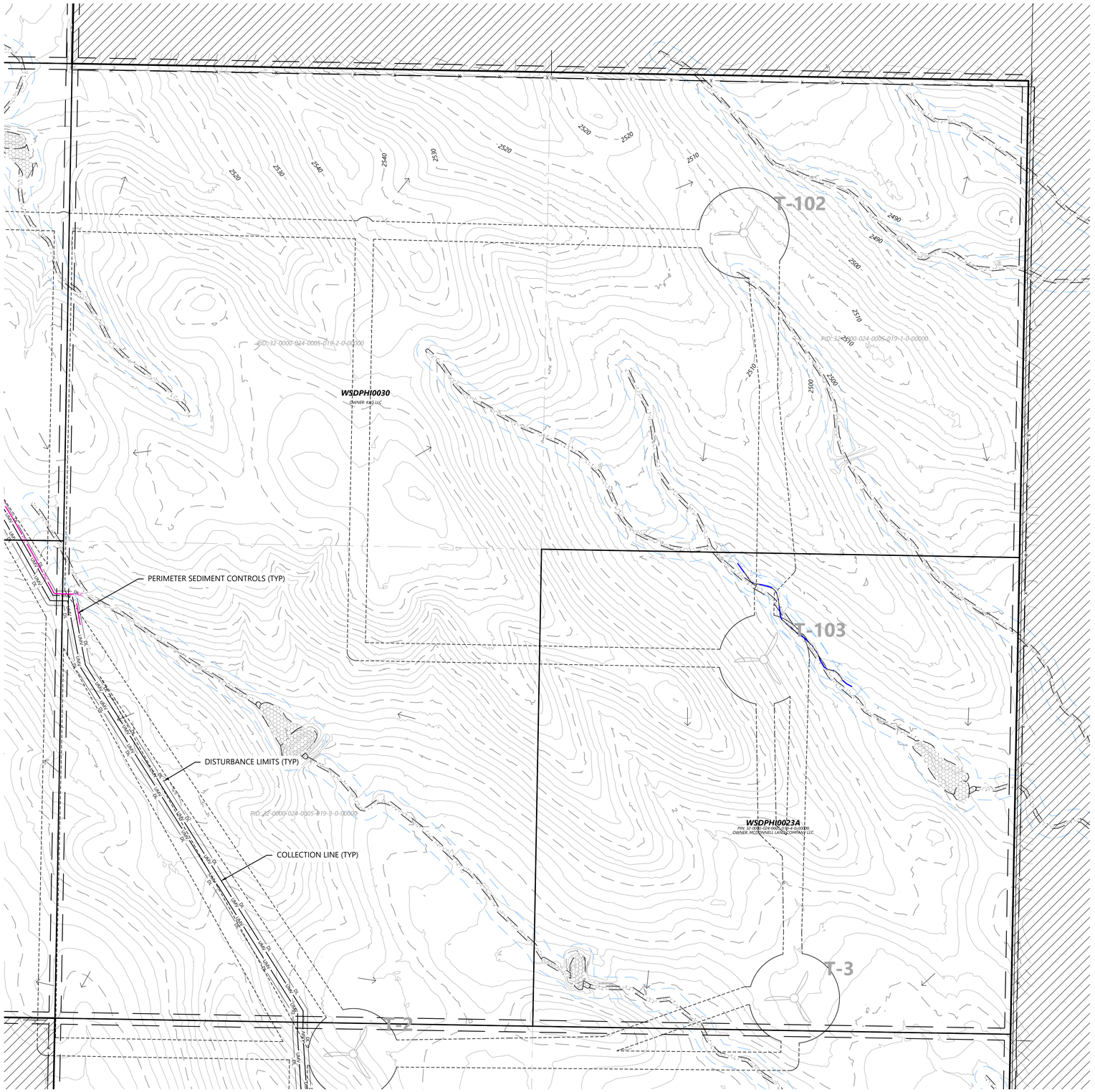
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DATE: 05/07/2026

SHEET: C302

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
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- EASEMENT LINES
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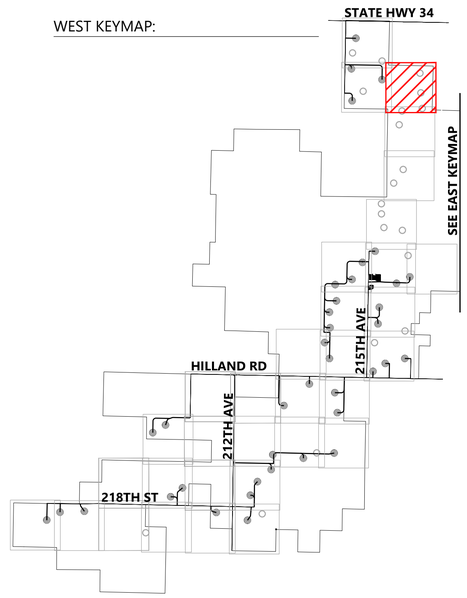
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Philip Wind Project

Haakon County, South Dakota

Site Plan T-2 T-3 T-102 T-103

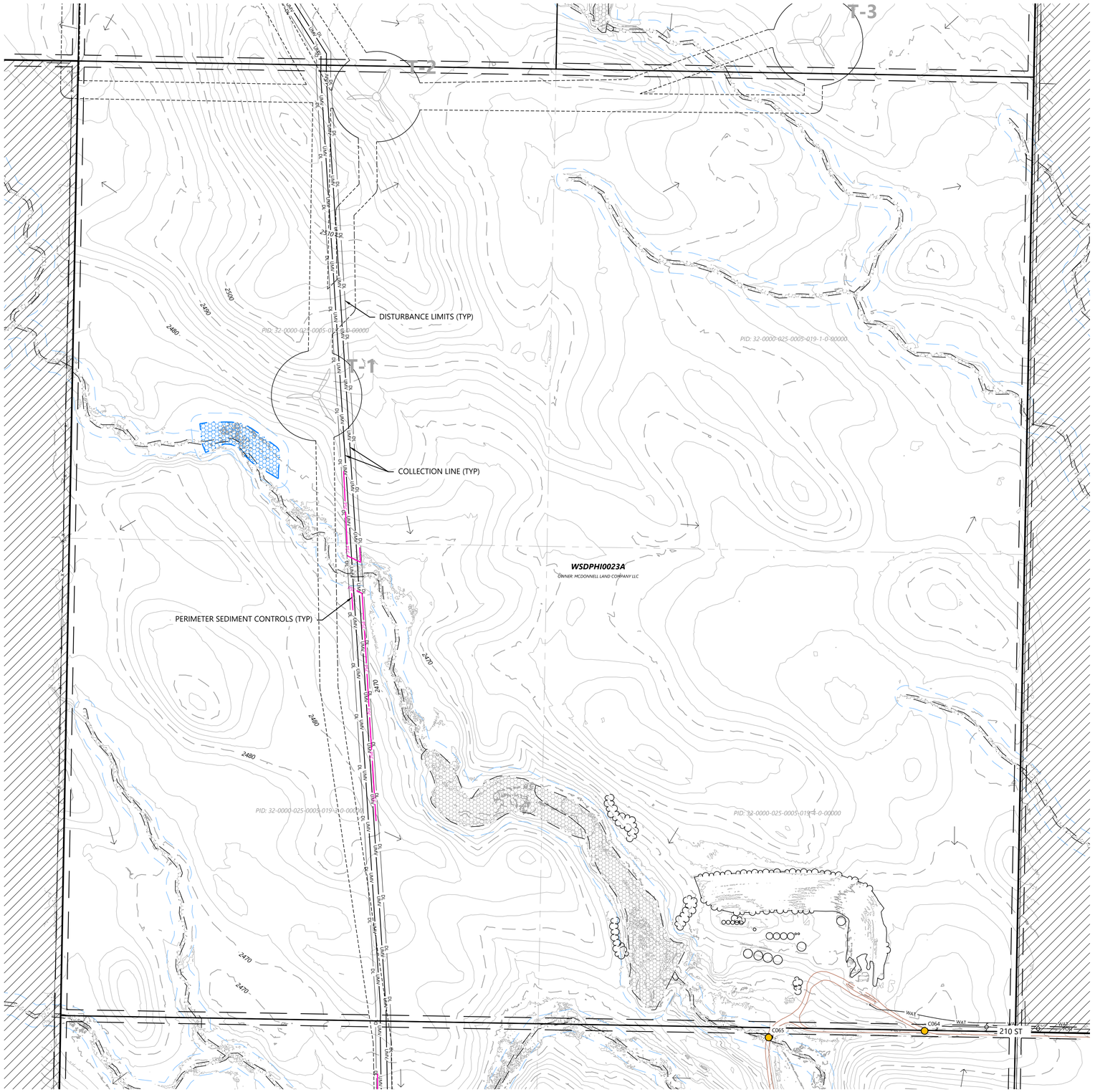
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DATE: 05/07/2026

SHEET: C303

REV: B

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LEGEND:

EXISTING:

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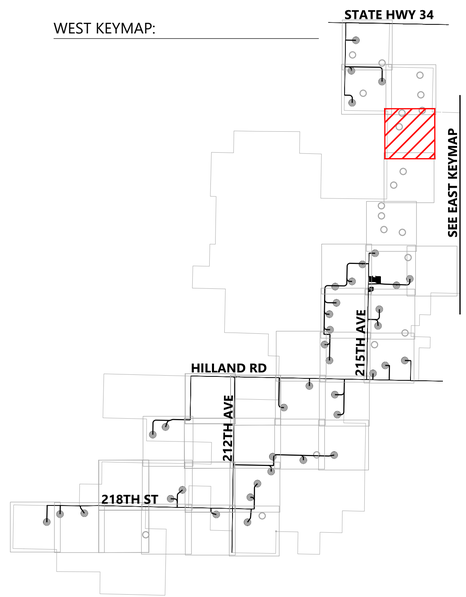
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WEST KEYMAP:



Westwood

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westwoodps.com

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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy

BLATTNER ENERGY

392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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0' 300' 600' 900'

Philip Wind Project

Haakon County, South Dakota

Site Plan T-1 T-2

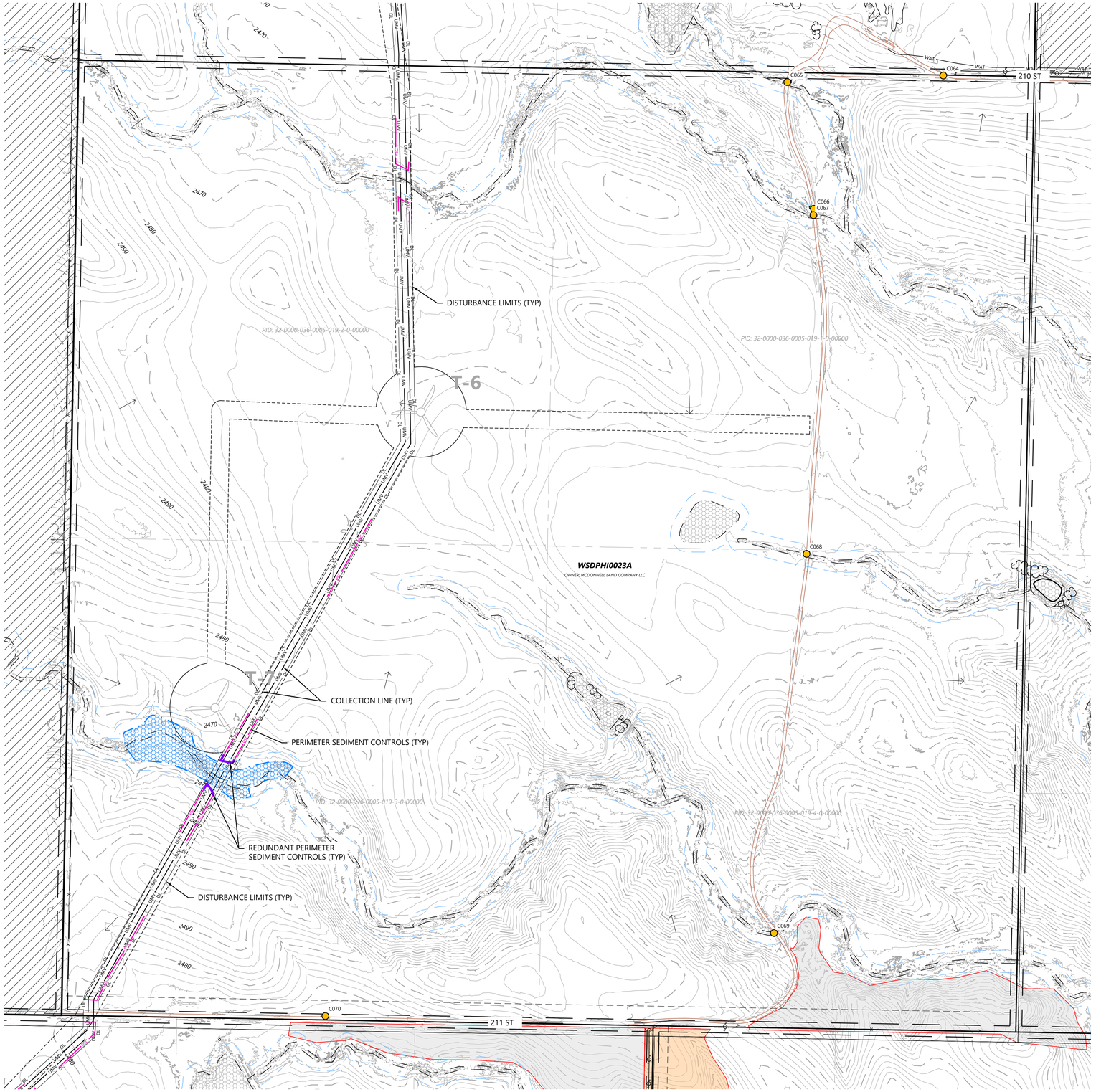
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C304

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- X FENCE
- POH OVERHEAD POWER
- FO FIBER OPTIC LINE
- WAT WATER LINE
- MISC UNKNOWN UTILITY LINE
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- ## ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DC-# EC-# CP-# DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
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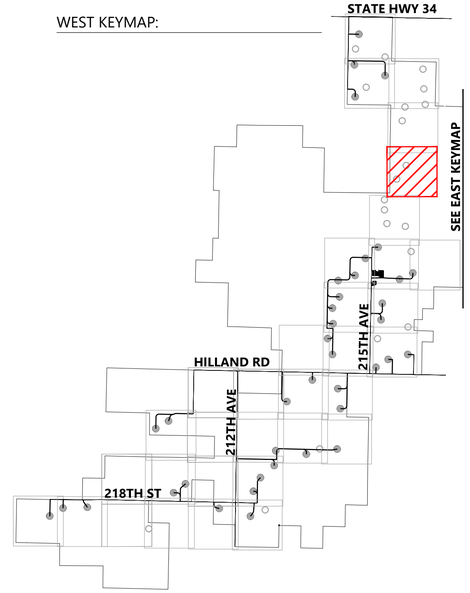
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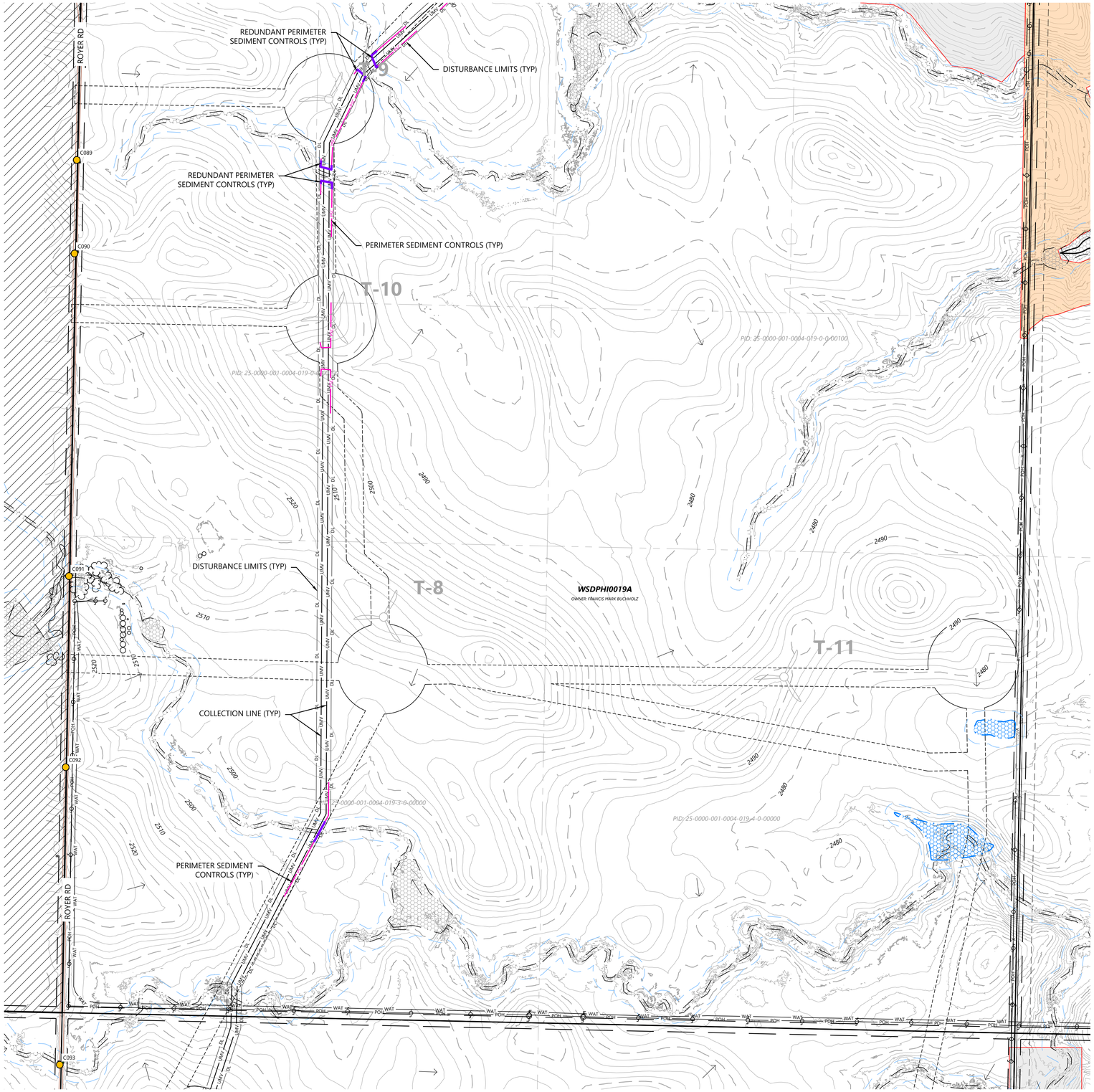
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DATE: 05/07/2026

SHEET: C305

REV: B

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- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
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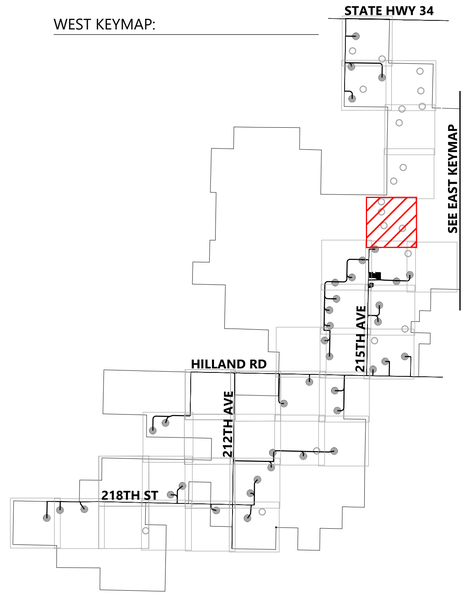
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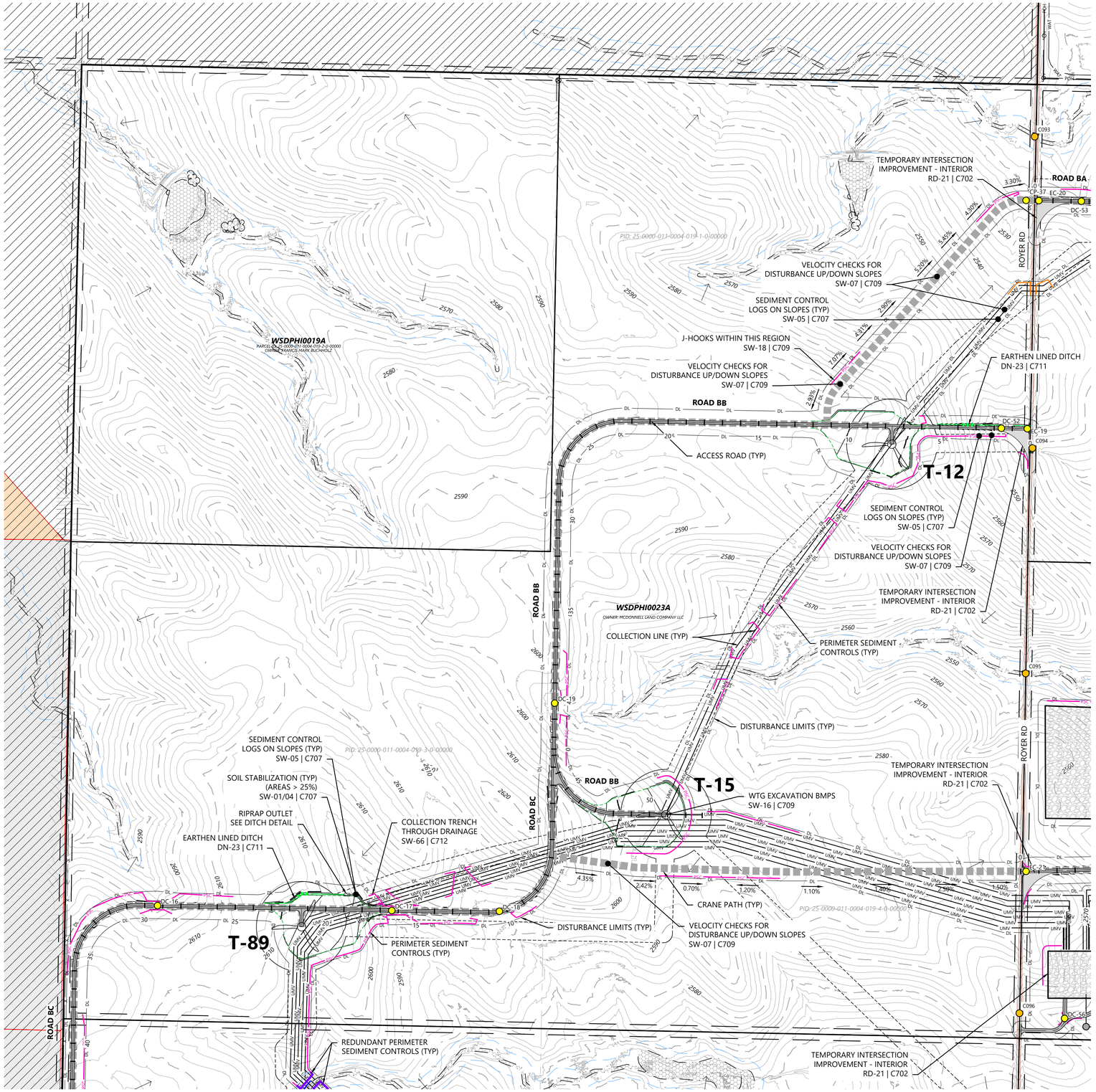
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DATE: 05/07/2026

SHEET: C306

REV: B

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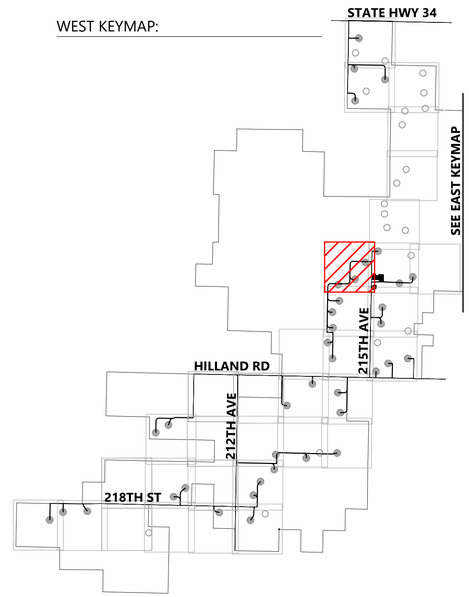
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WEST KEYMAP:



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Philip Wind Project

Haakon County, South Dakota

Site Plan T-12 T-15 T-89

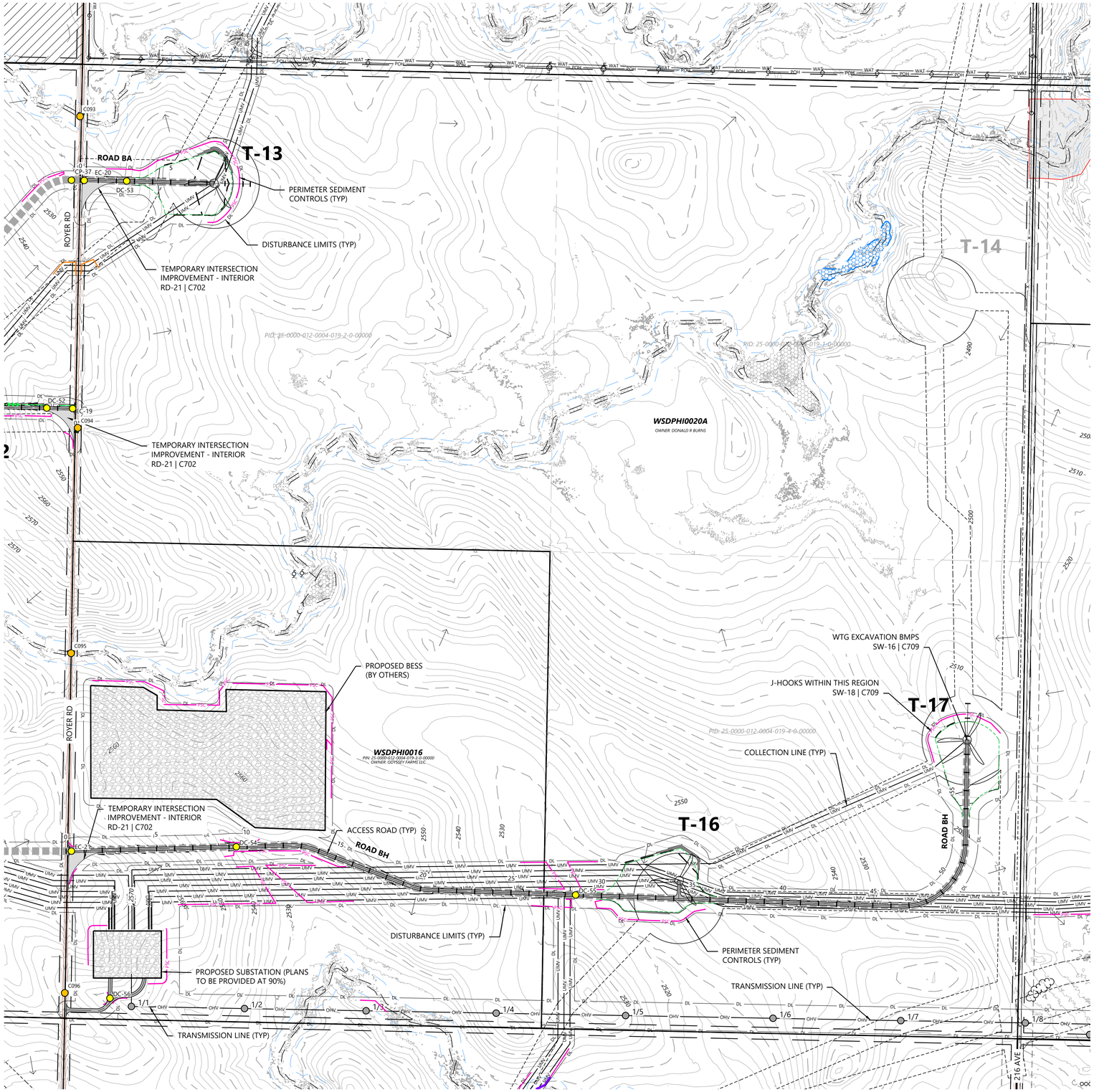
ISSUED FOR PERMIT
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DATE: 05/07/2026

SHEET: C307

REV: B

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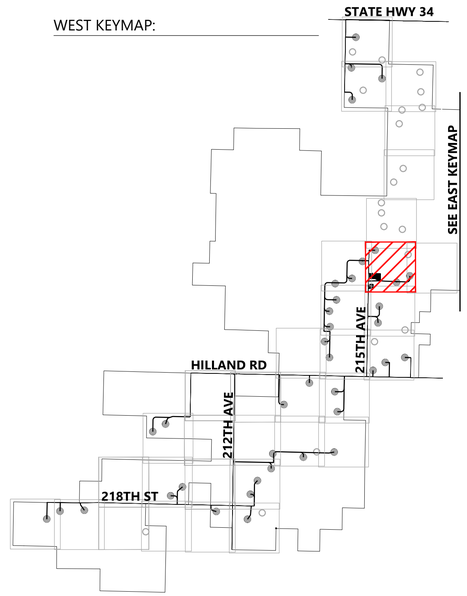
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Site Plan T-13 T-14 T-16 T-17

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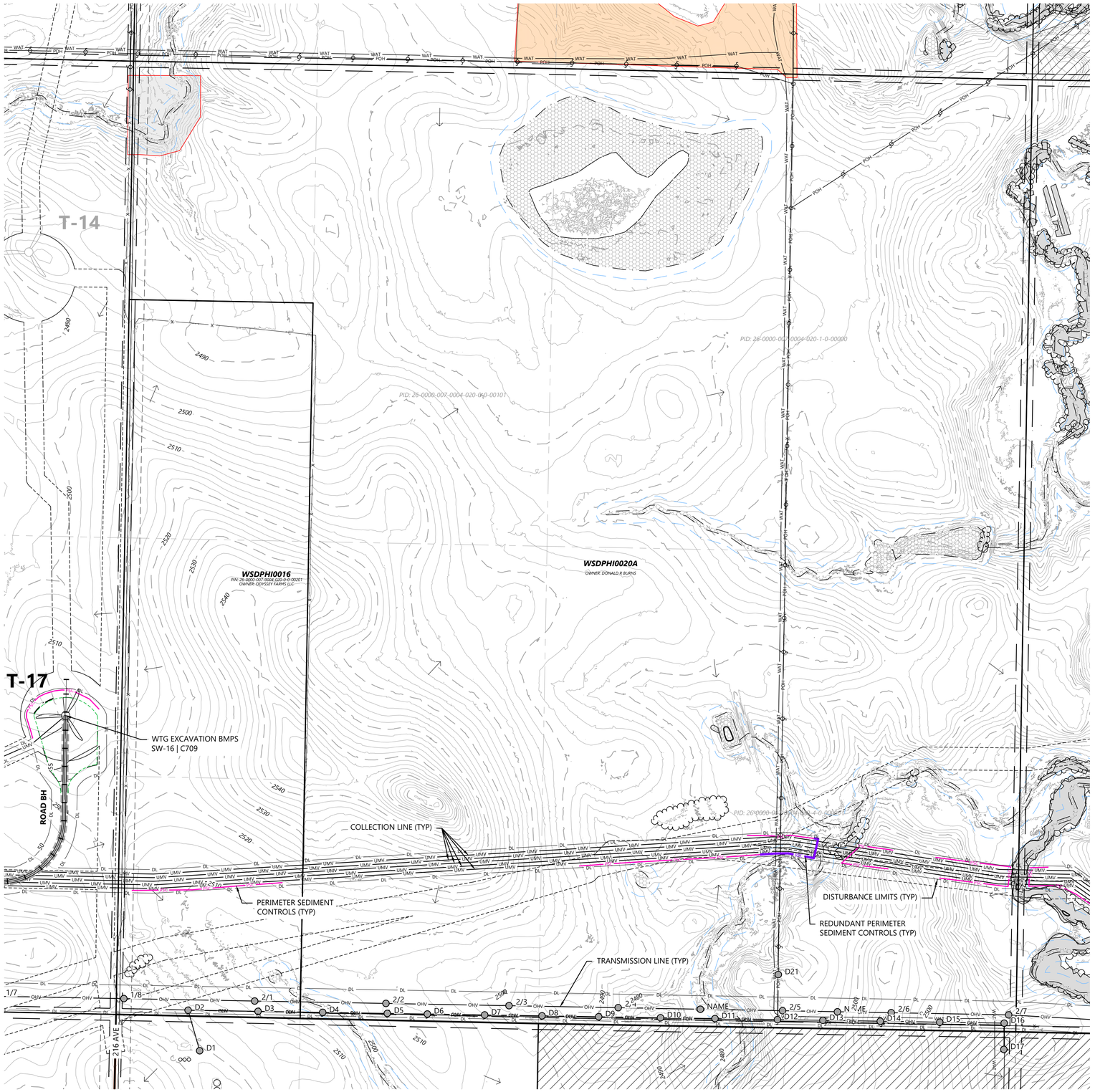
DATE: 05/07/2026

SHEET: C308

REV: B

South Dakota 811 Know what's below. Call before you dig.

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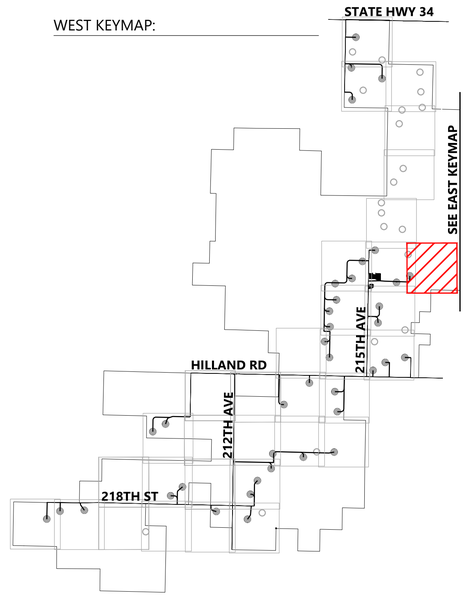
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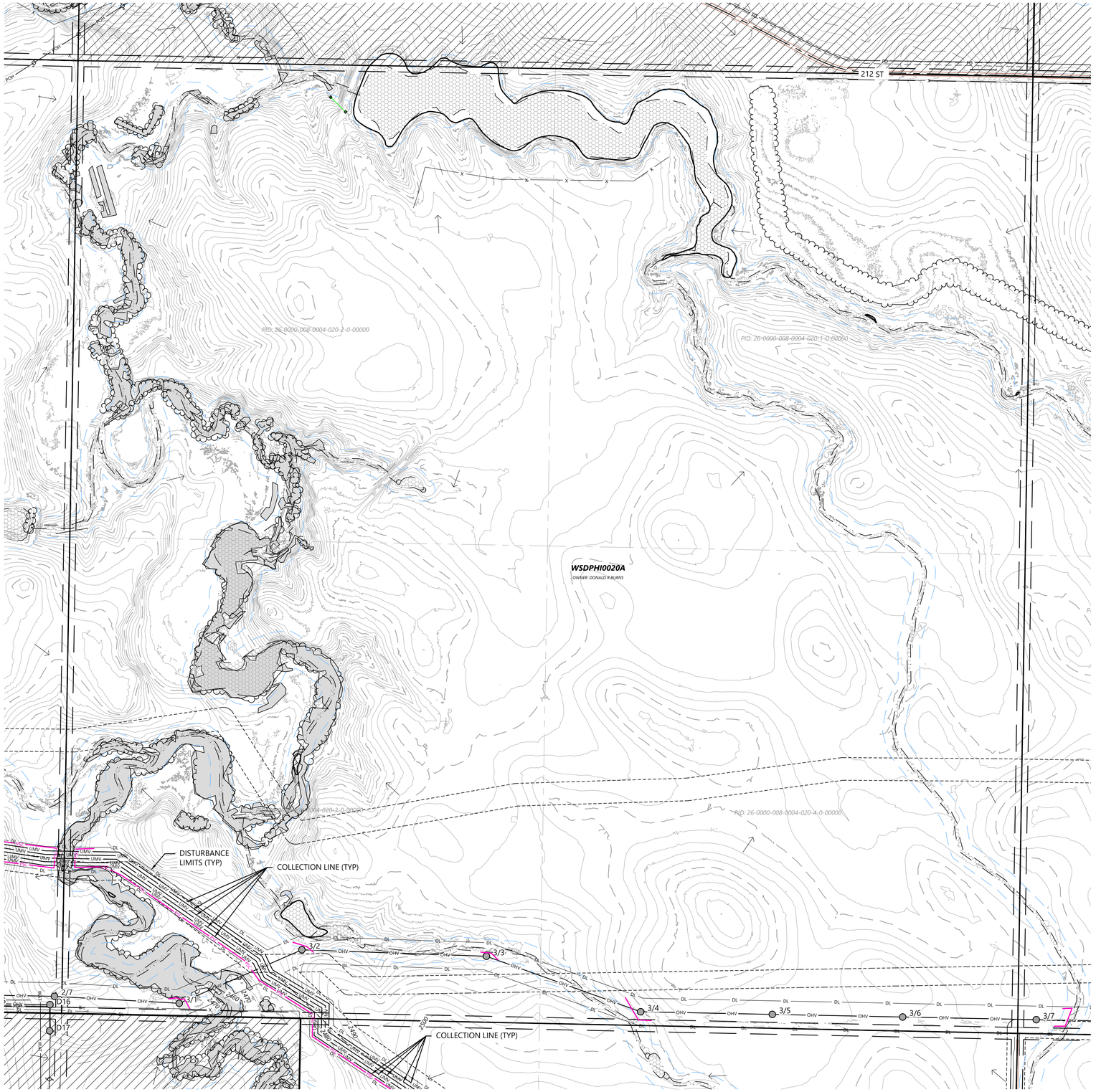
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DATE: 05/07/2026

SHEET: C309

REV: B

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LEGEND:

EXISTING:

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- EASEMENT LINES
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- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
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- DRAINAGE DIRECTION
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- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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- ALT. TURBINE LOCATION
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- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
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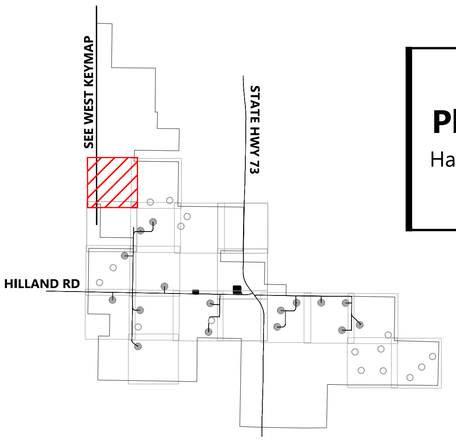
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EAST KEYMAP:



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SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy

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Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

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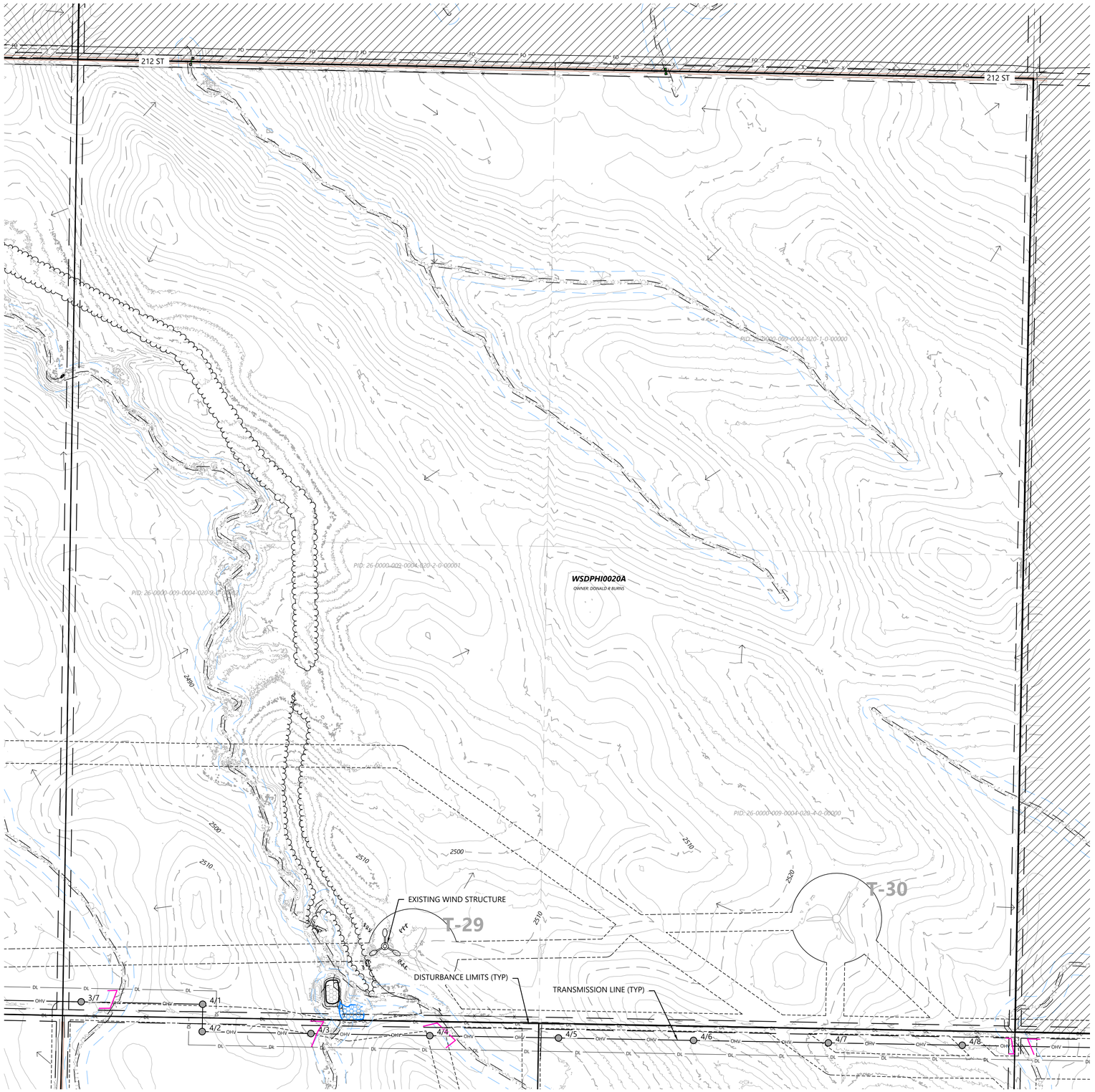
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- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
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- NON-PARTICIPATING LAND
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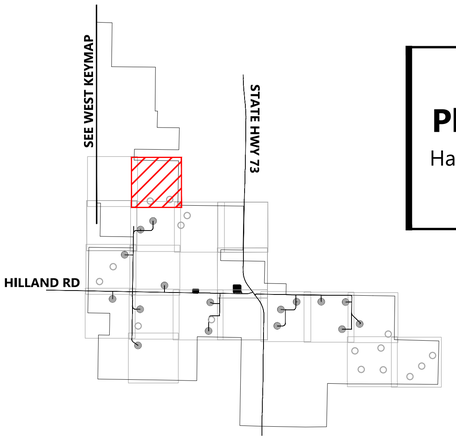
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Philip Wind Project

Haakon County, South Dakota

Site Plan T-29 T-30

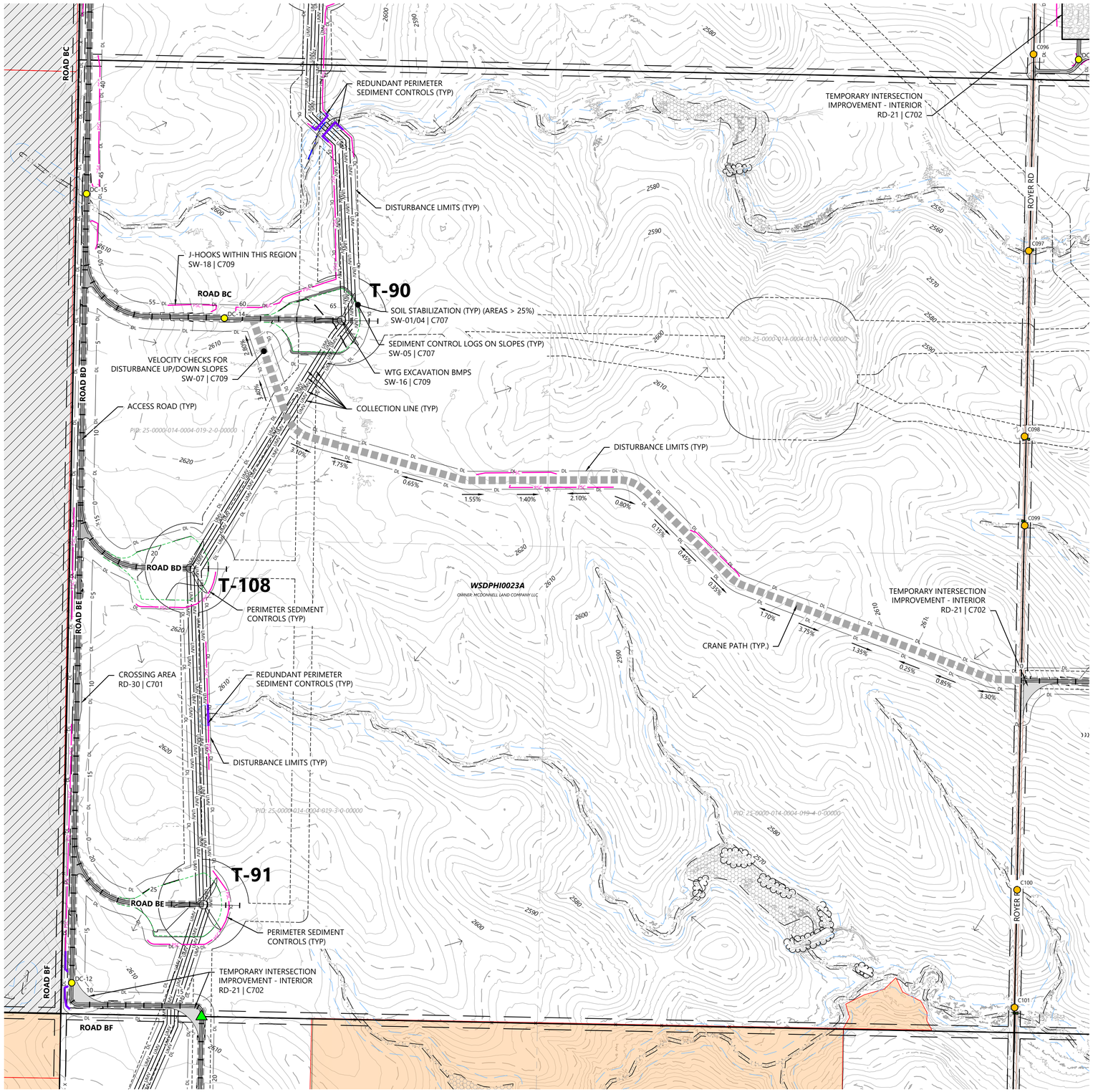
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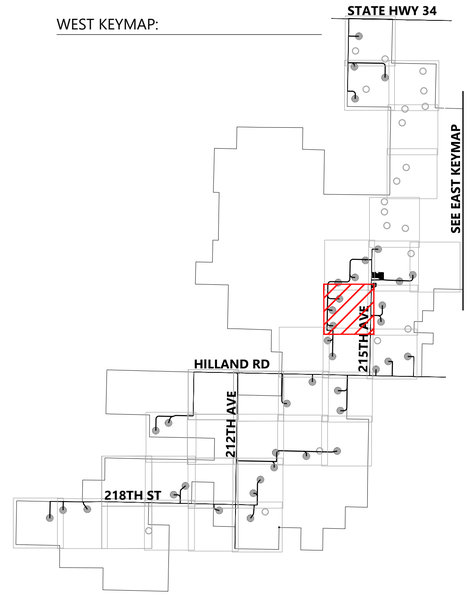
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0' 300' 600' 900'

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Haakon County, South Dakota

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T-108

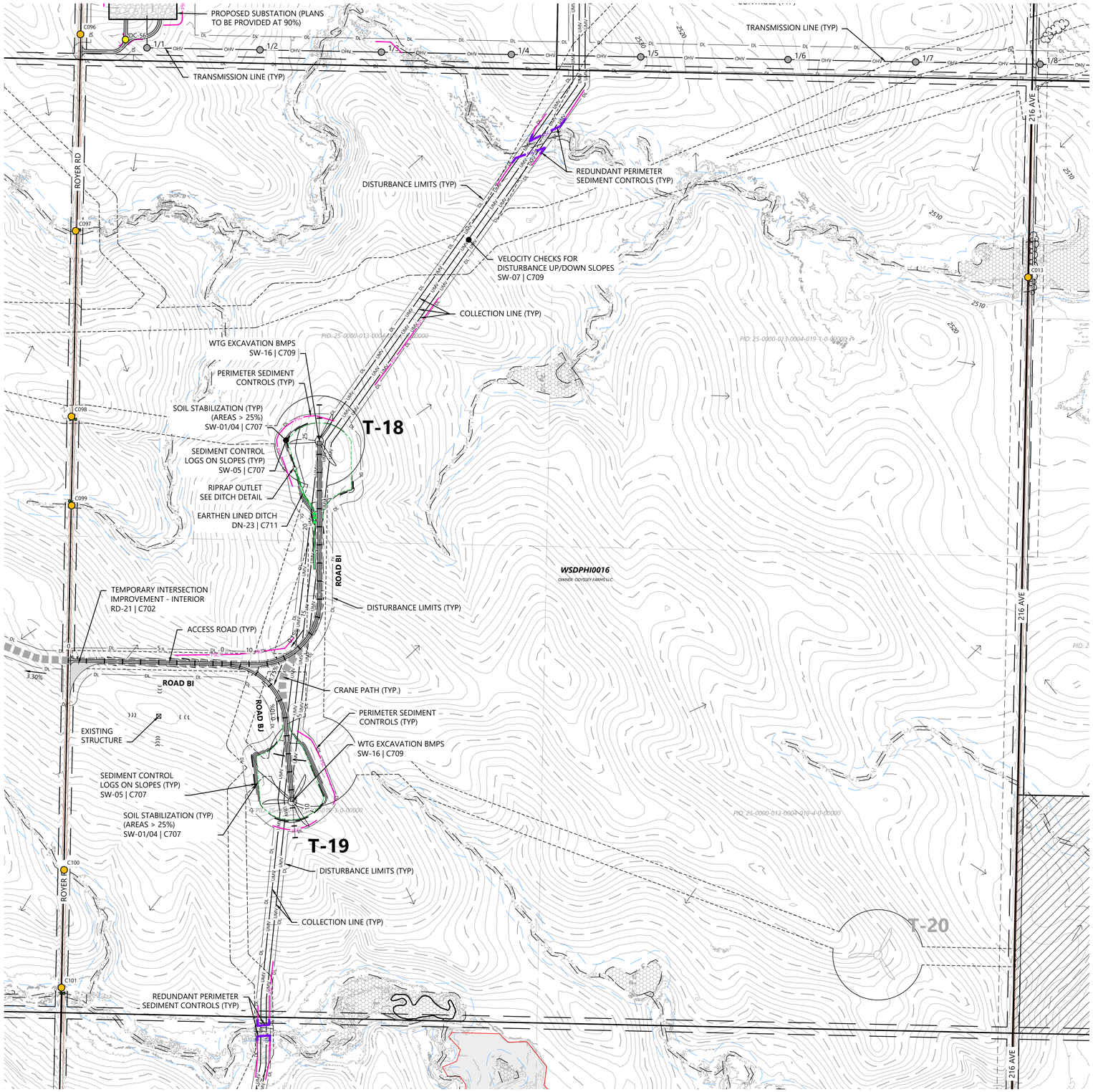
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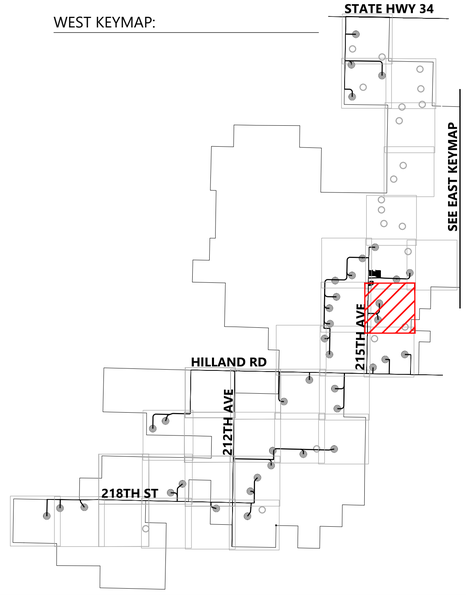
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Site Plan T-18 T-19 T-20

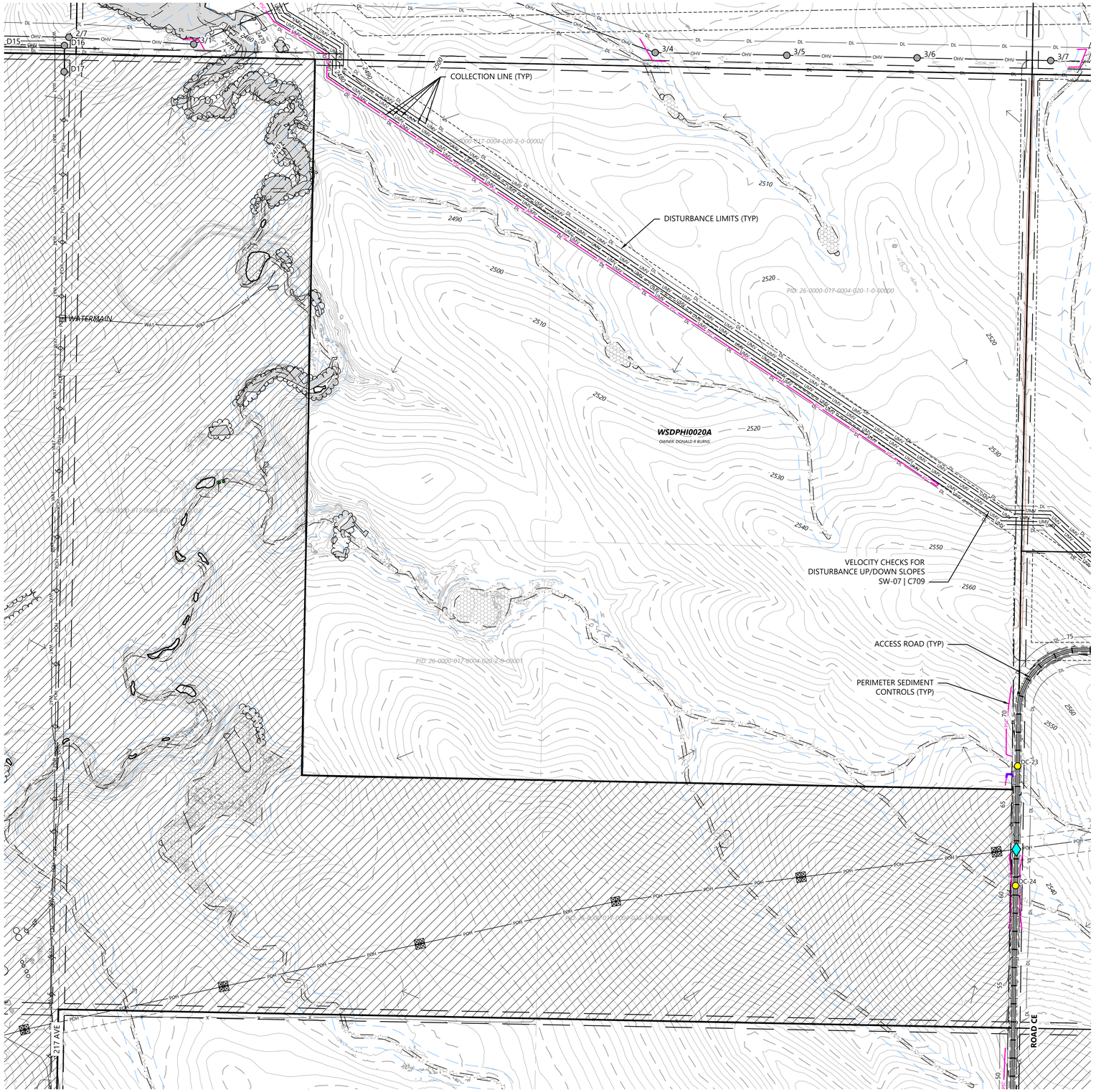
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SouthDakota 811 — Know what's below. Call before you dig.

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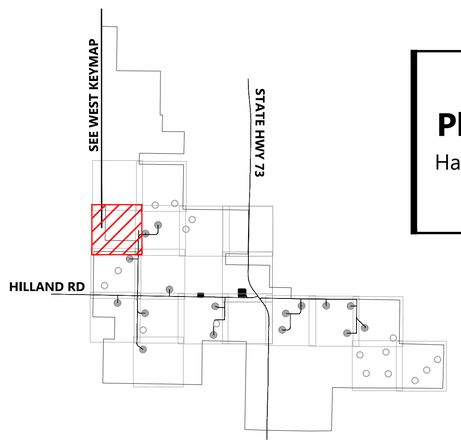
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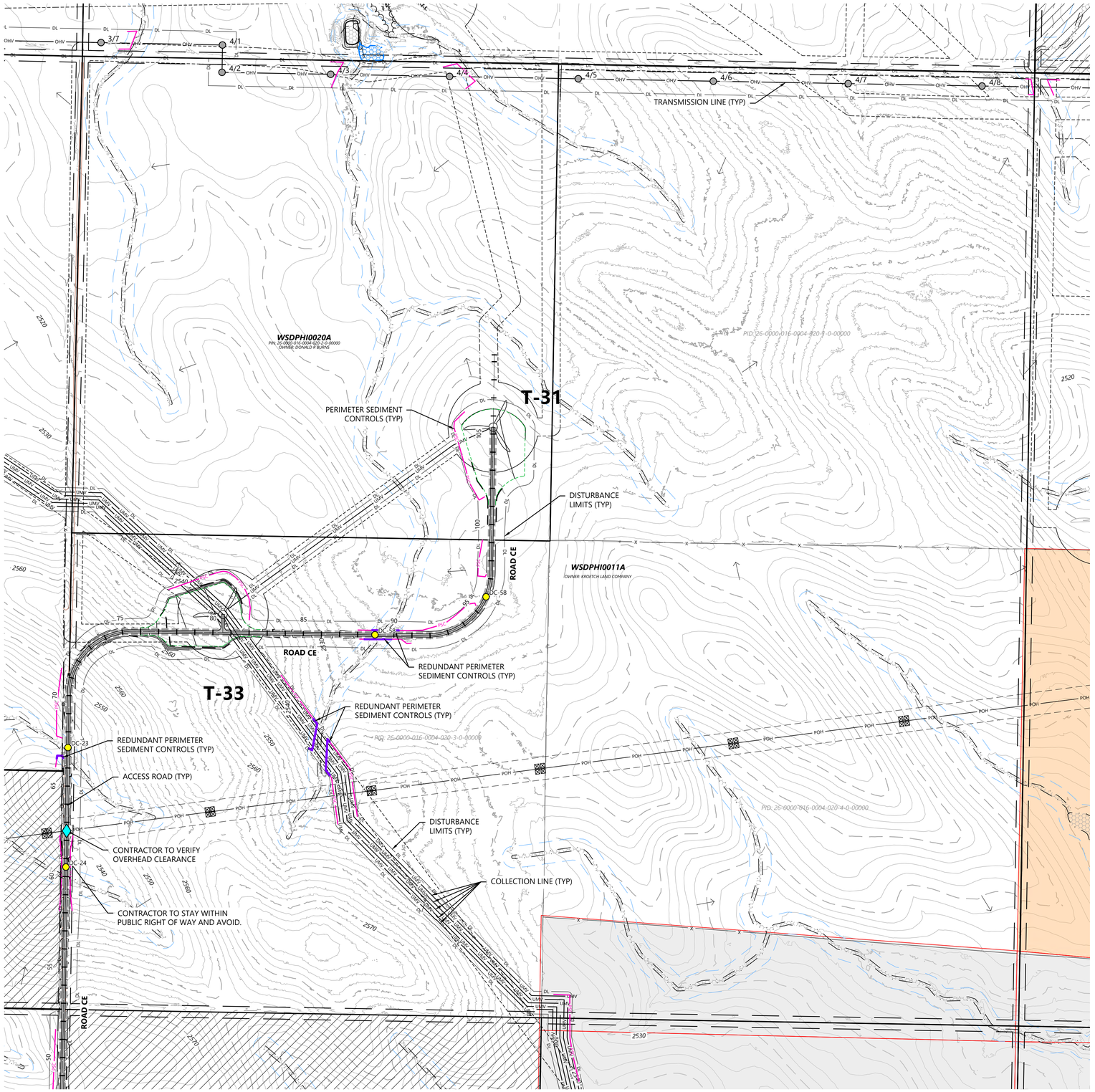
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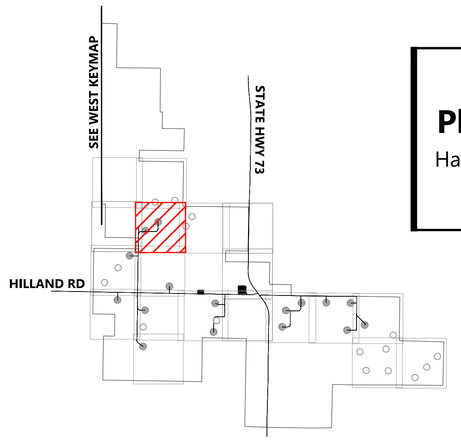
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EAST KEYMAP:



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06/17/26

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0' 300' 600' 900'

Philip Wind Project

Haakon County, South Dakota

Site Plan T-31 T-33

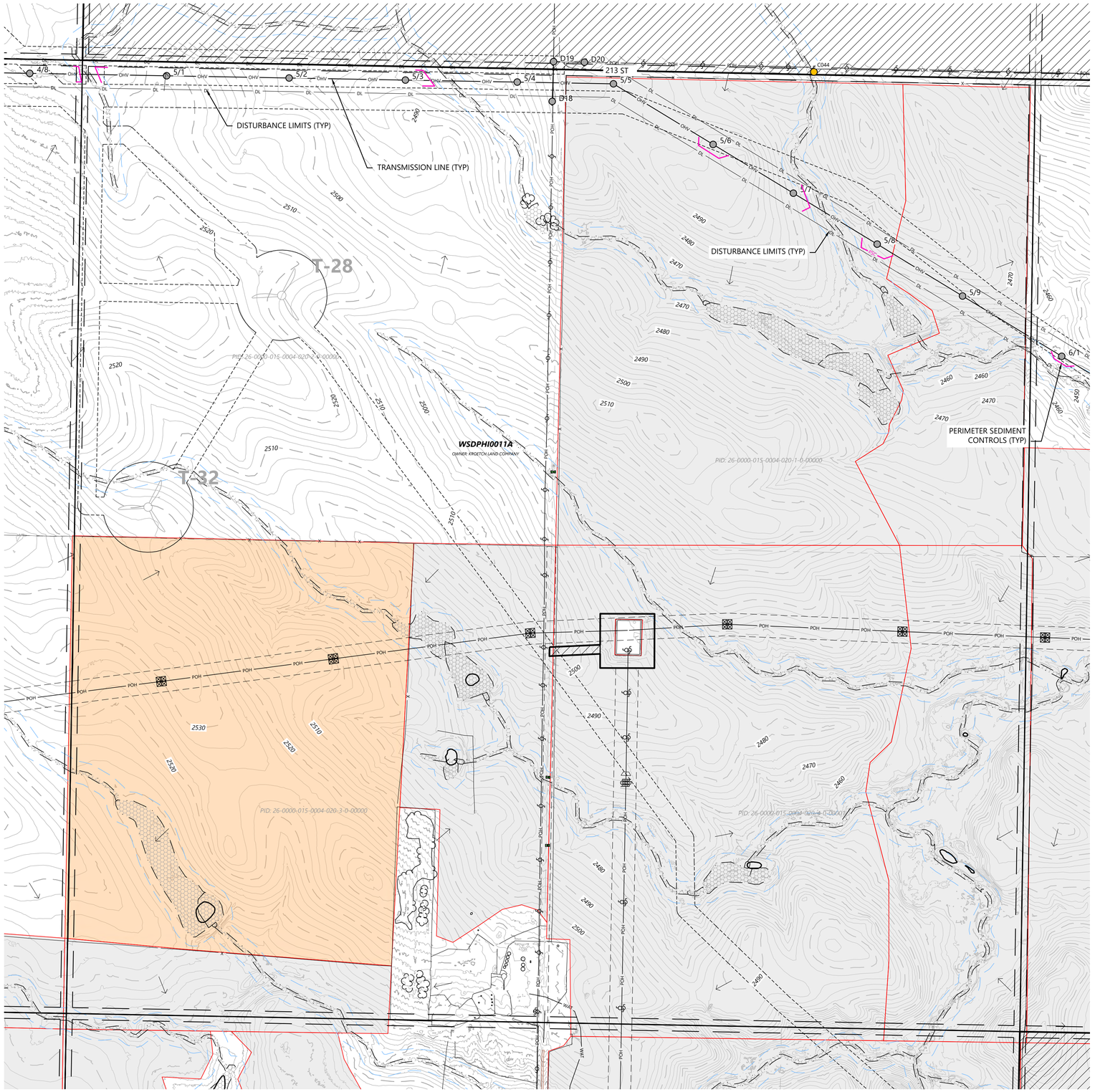
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DATE: 05/07/2026

SHEET: C315

REV: B

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LEGEND:

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- EASEMENT LINES
- SURVEY CORRIDOR
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- INDEX CONTOUR
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- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
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- WETLAND (PUBLIC DATA)
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- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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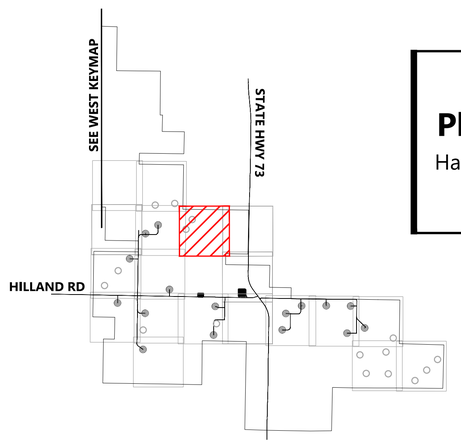
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Philip Wind Project

Haakon County, South Dakota

Site Plan T-28 T-32

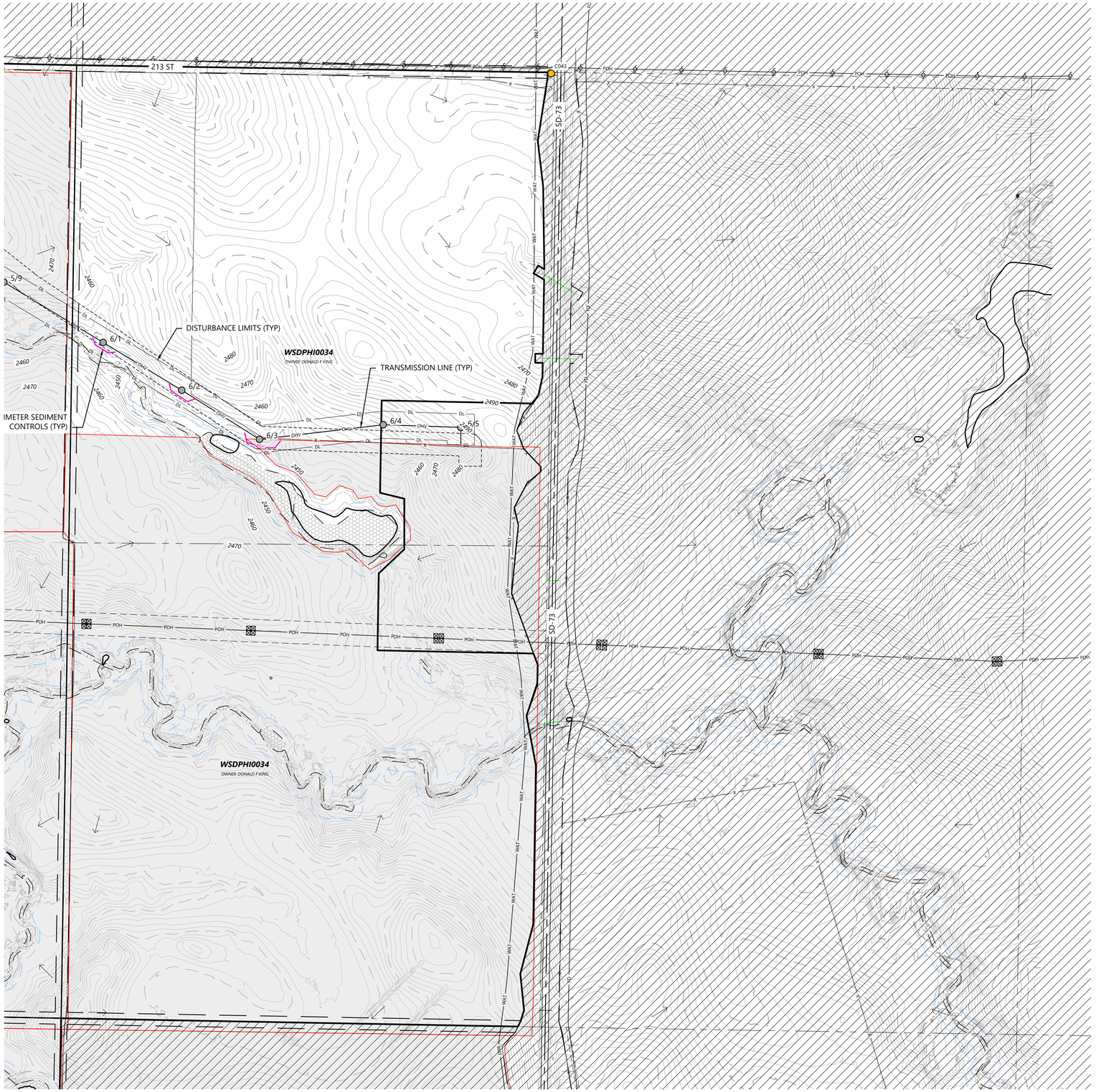
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DATE: 05/07/2026

SHEET: C316

REV: B

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LEGEND:

EXISTING:

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- EASEMENT LINES
- SURVEY CORRIDOR
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- INDEX CONTOUR
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- FENCE
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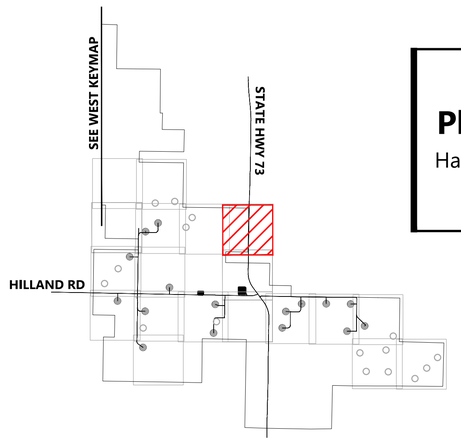
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Philip Wind Project

Haakon County, South Dakota

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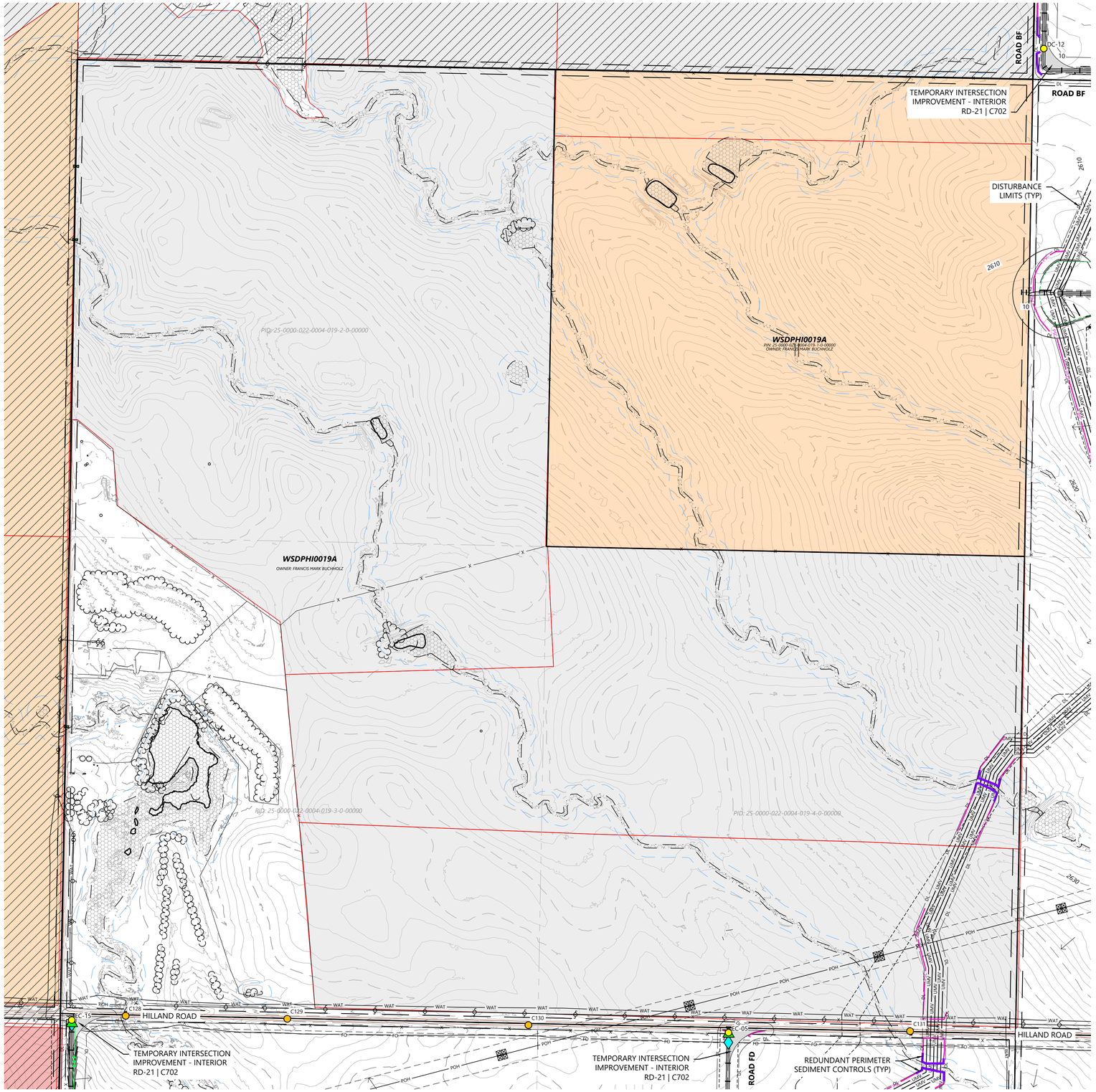
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DATE: 05/07/2026

SHEET: C317

REV: B

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LEGEND:

EXISTING:

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- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- 900 INDEX CONTOUR
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- X FENCE
- POH OVERHEAD POWER
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- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
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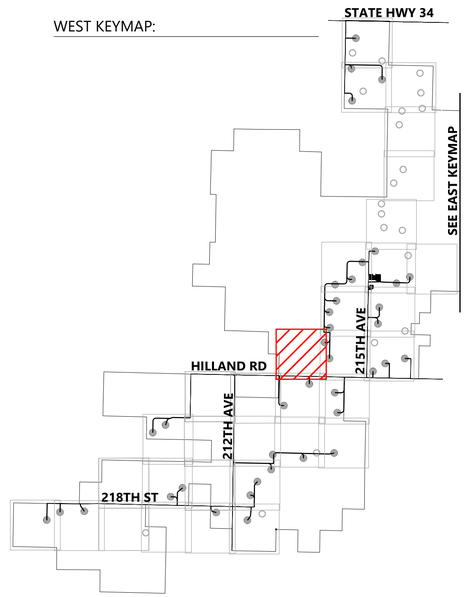
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0' 300' 600' 900'

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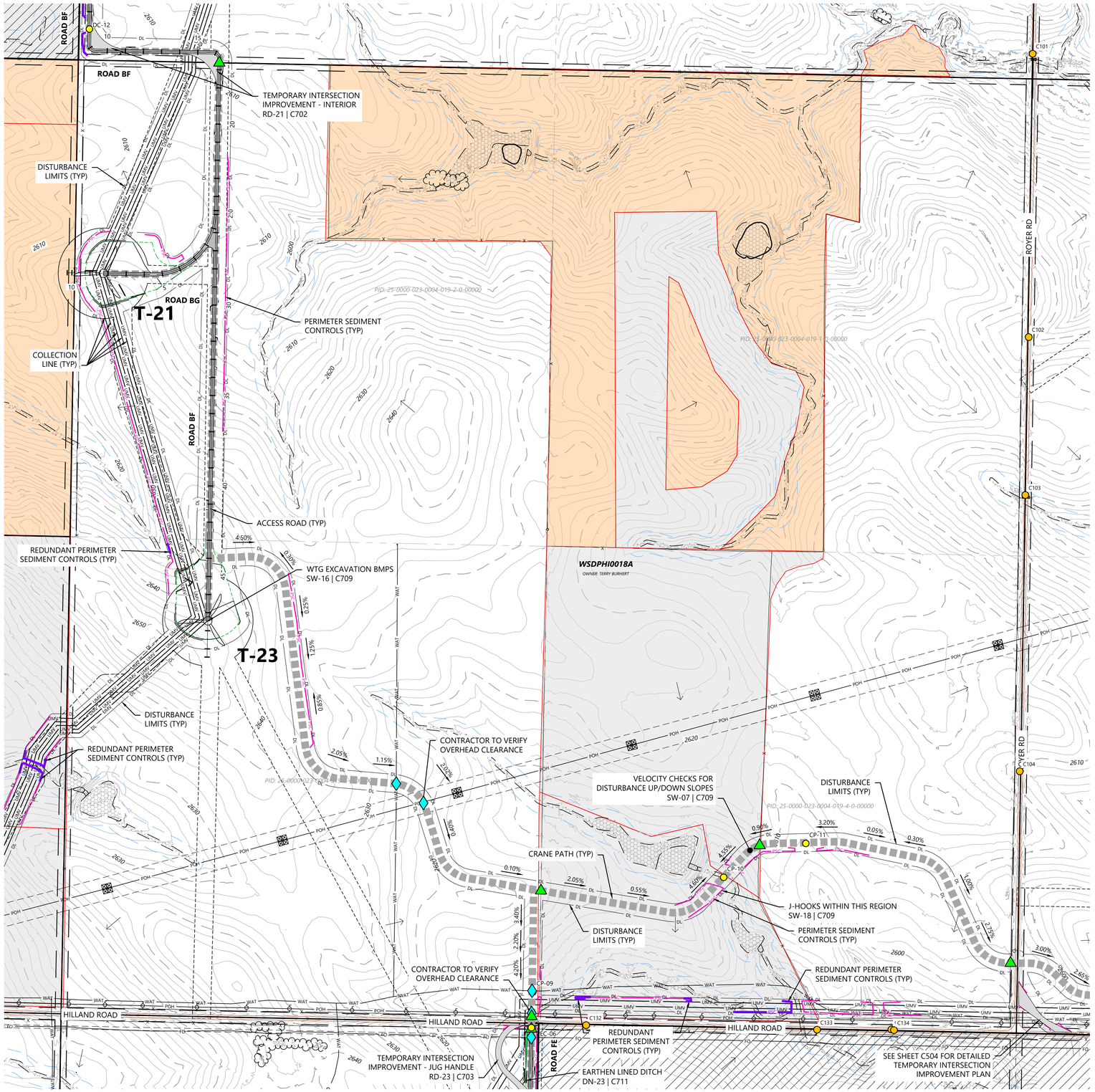
Philip Wind Project
Haakon County, South Dakota

Site Plan

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DATE: 05/07/2026
SHEET: C318
REV: B

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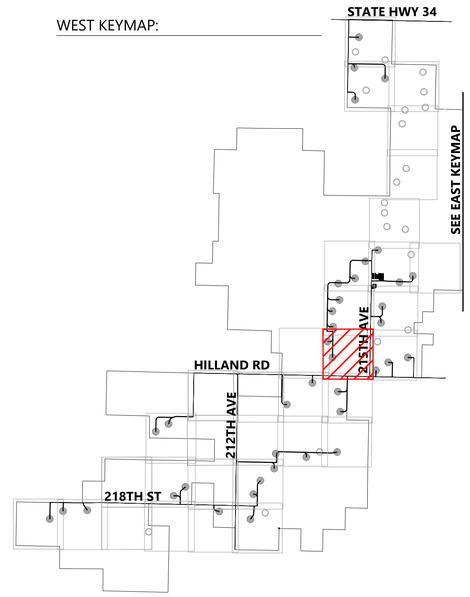
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Site Plan T-21 T-23

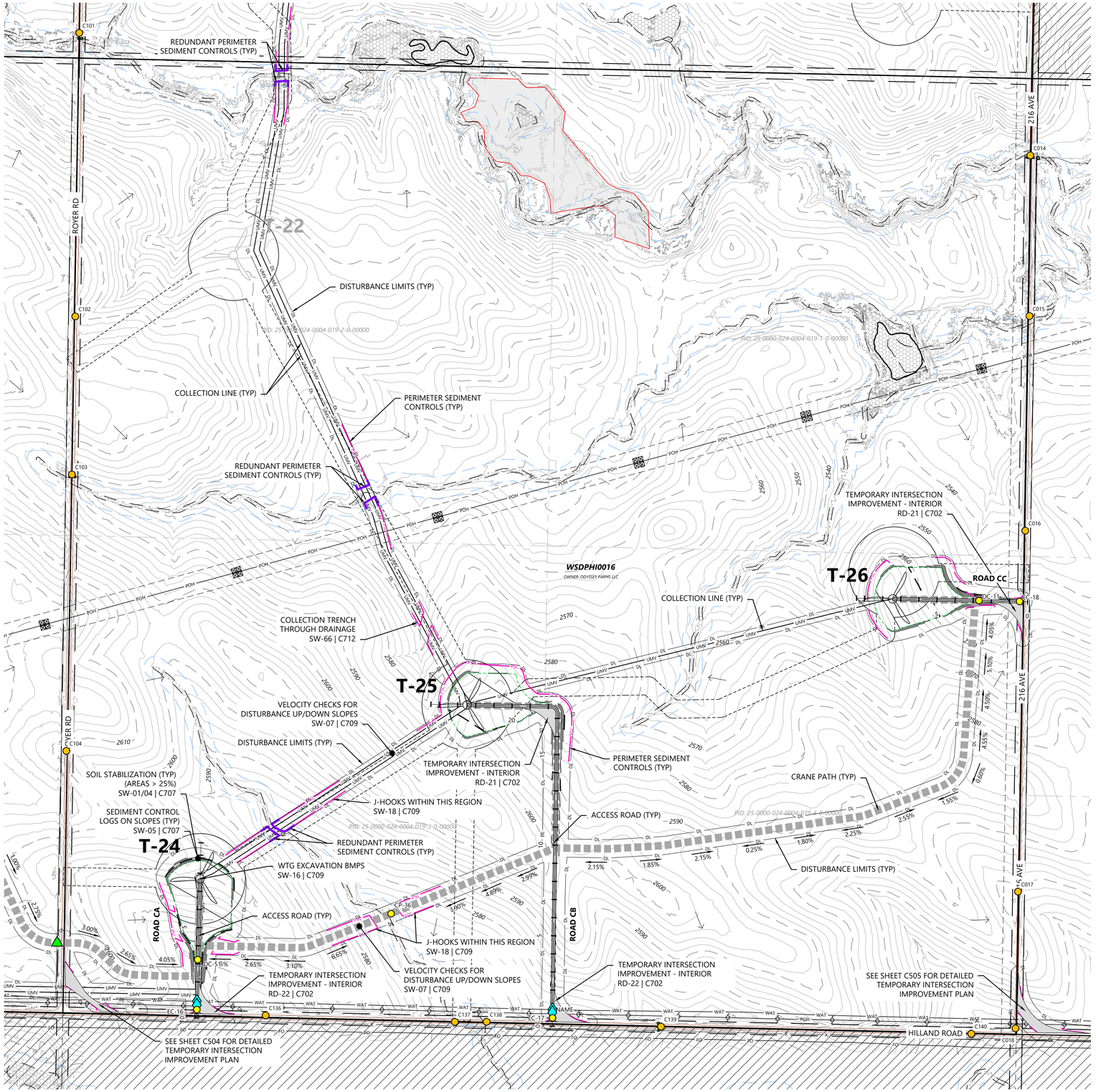
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DATE: 05/07/2026

SHEET: C319

REV: B

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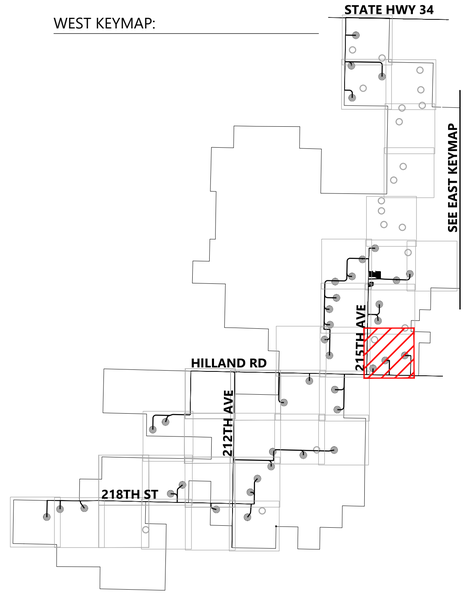
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   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

WEST KEYMAP:



0' 300' 600' 900'

Westwood

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Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELCHER SOUTH DAKOTA 06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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Philip Wind Project

Haakon County, South Dakota

Site Plan T-22 T-24 T-25 T-26

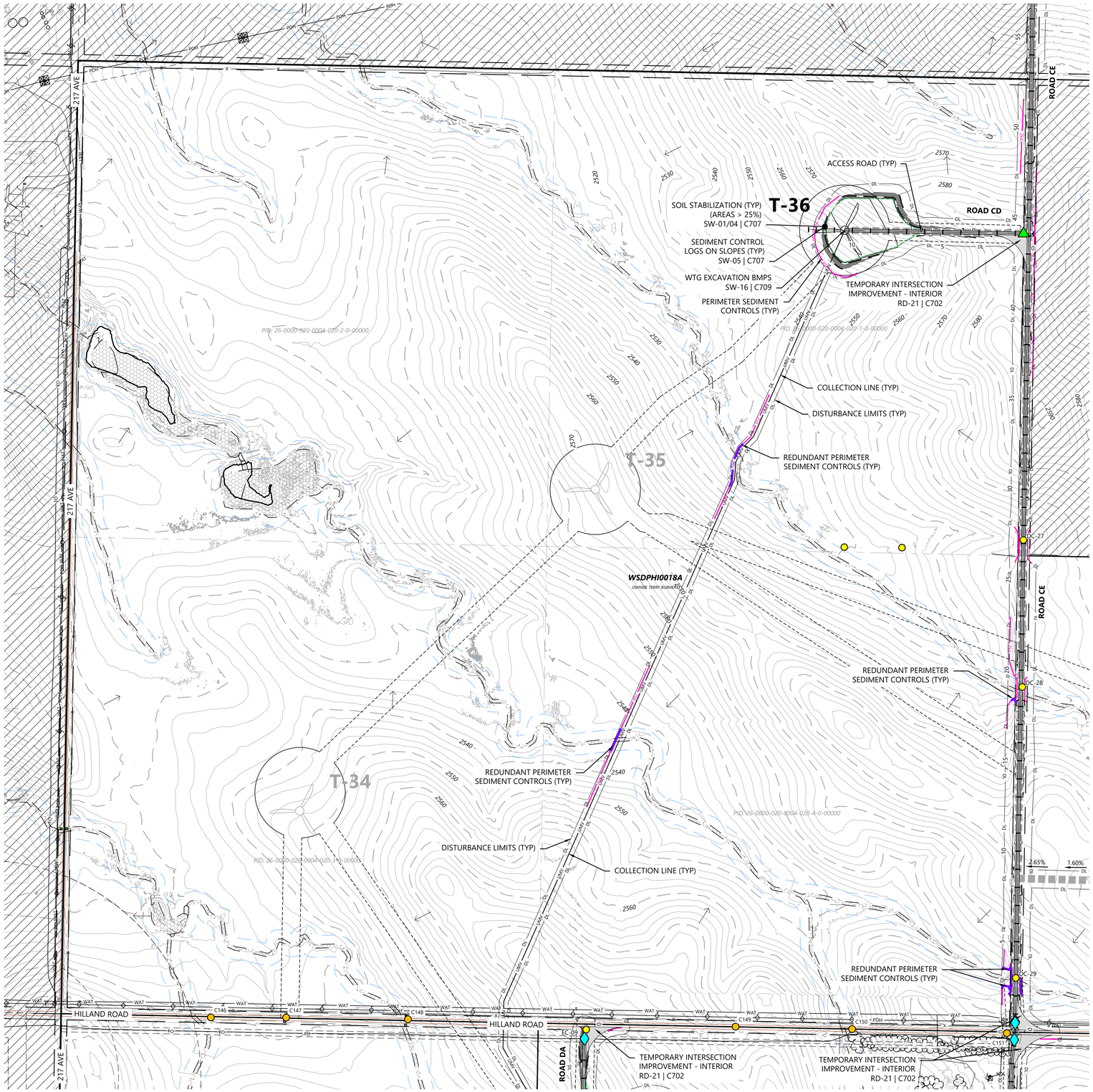
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C320

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
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- ALT. TURBINE LOCATION
- ACCESS ROAD
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- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
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- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
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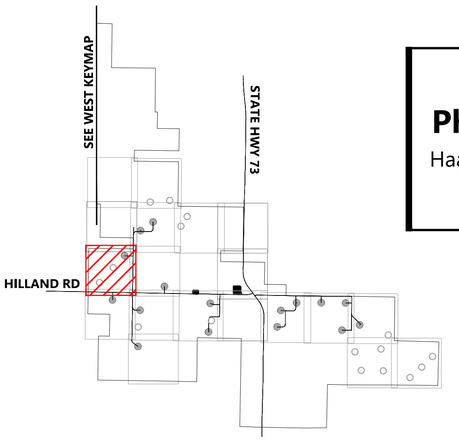
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Haakon County, South Dakota

Site Plan T-34 T-35 T-36

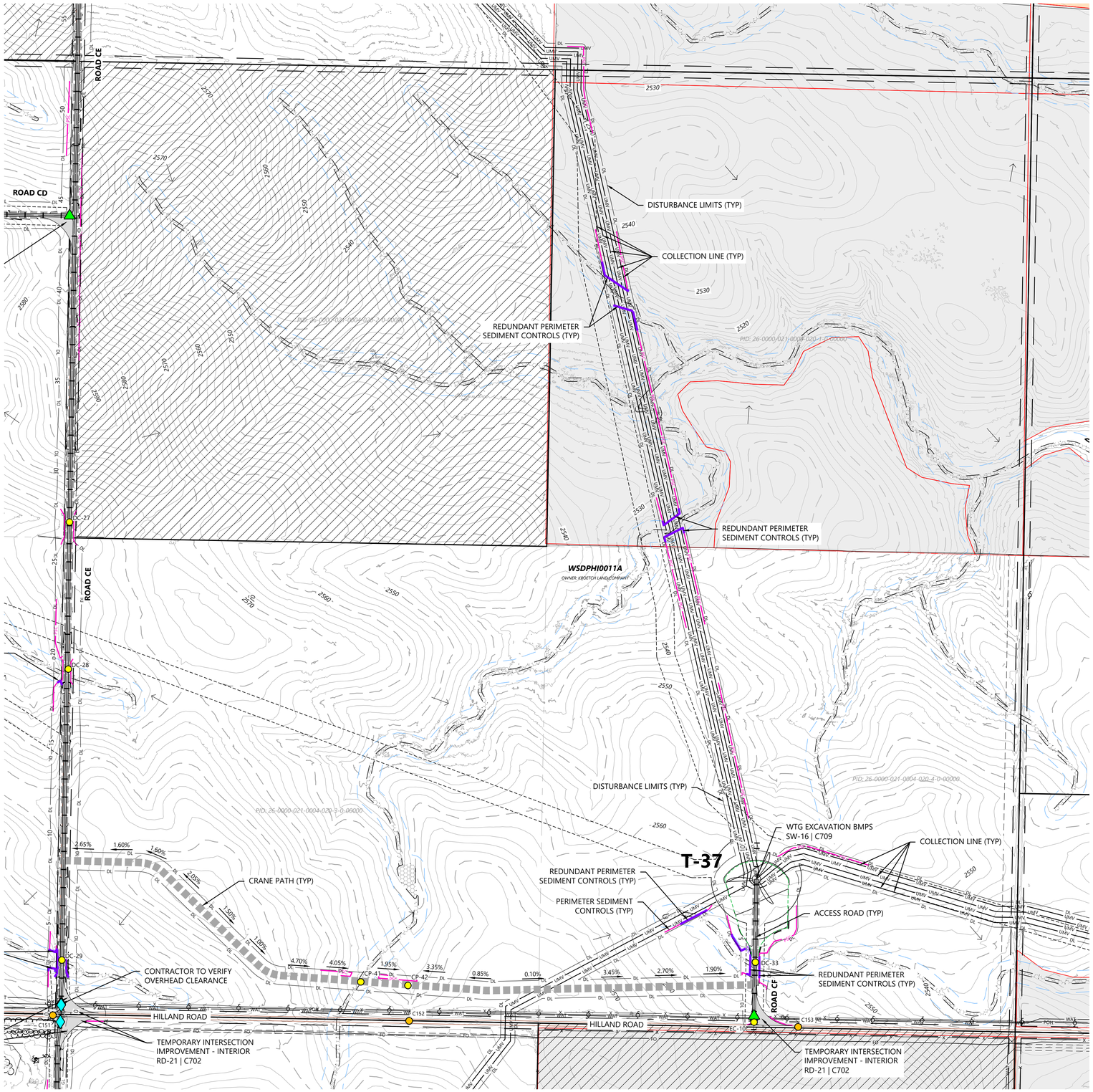
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DATE: 05/07/2026

SHEET: C321

REV: B

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LEGEND:

EXISTING:

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- OVERHEAD TRANSMISSION
- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
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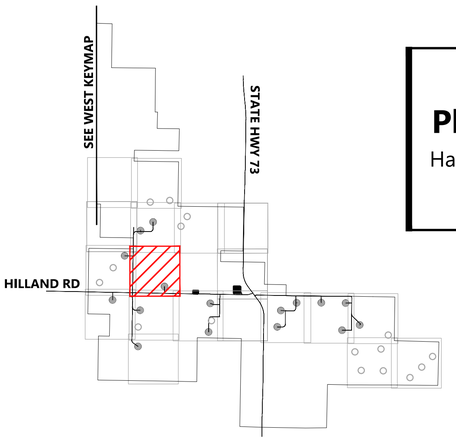
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Philip Wind Project

Haakon County, South Dakota

Site Plan T-37

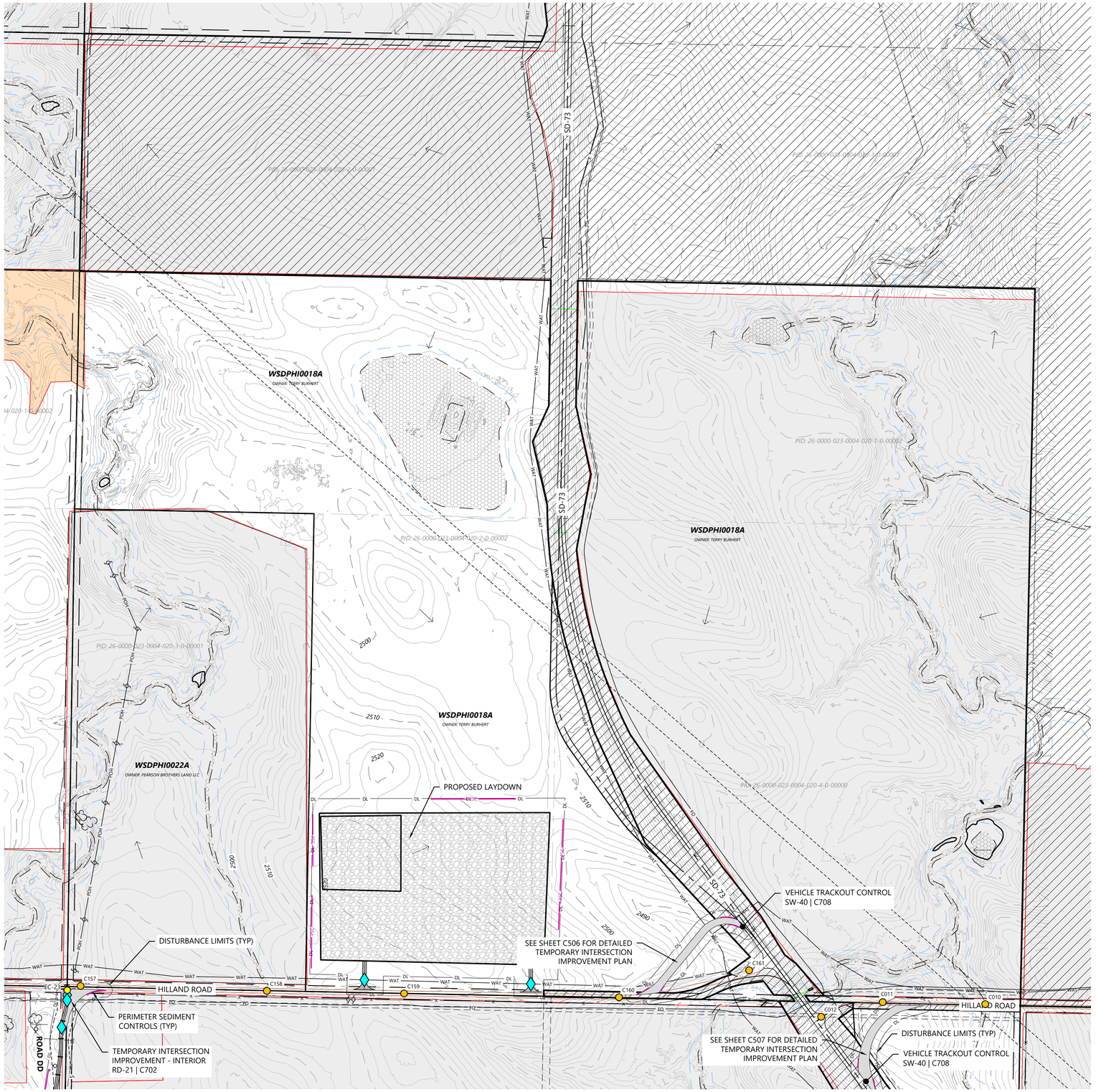
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DATE: 05/07/2026

SHEET: C322

REV: B

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- X FENCE
- POH OVERHEAD POWER
- FO FIBER OPTIC LINE
- WAT WATER LINE
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- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DC-# EC-# CP-# DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
- C-# EXISTING STRUCTURE
- FENCE CROSSING
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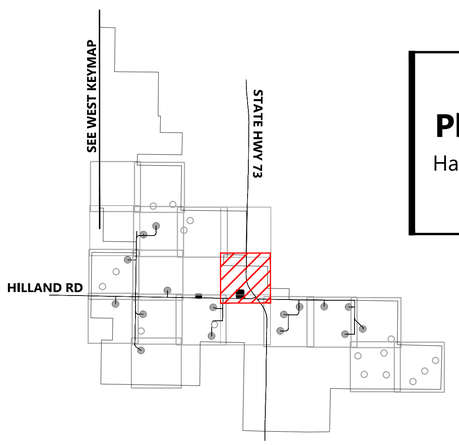
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Philip Wind Project

Haakon County, South Dakota

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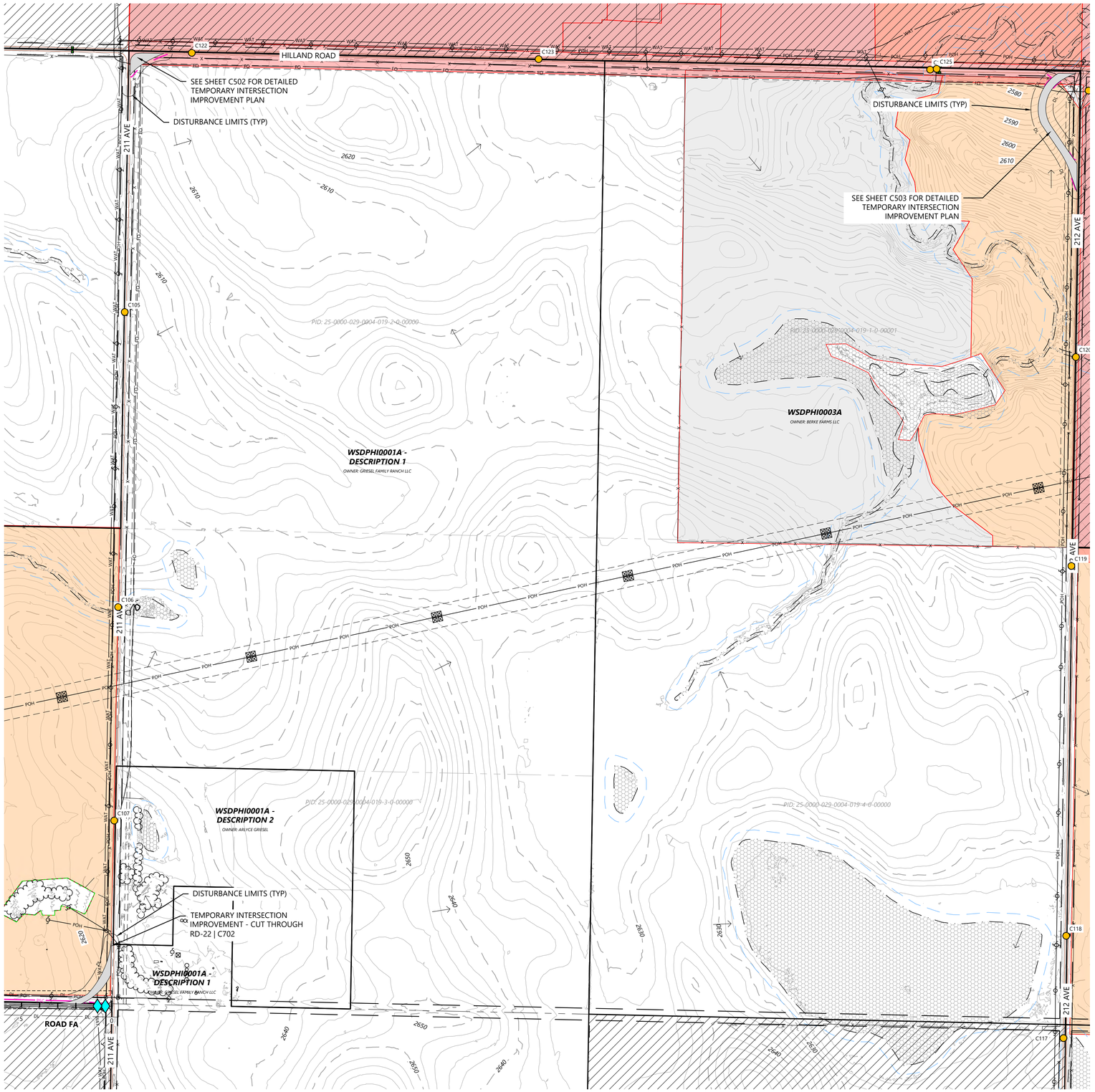
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DATE: 05/07/2026

SHEET: C323

REV: B

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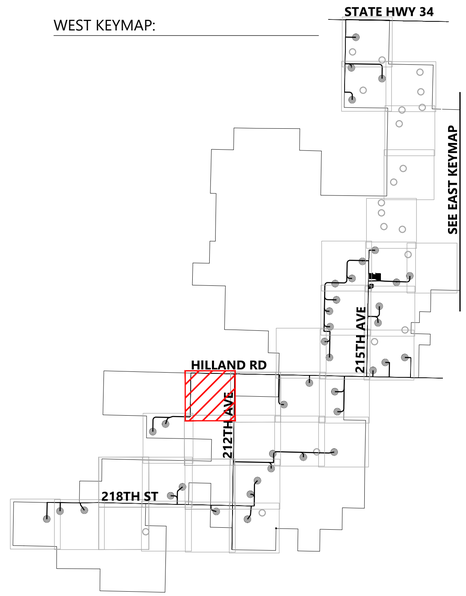
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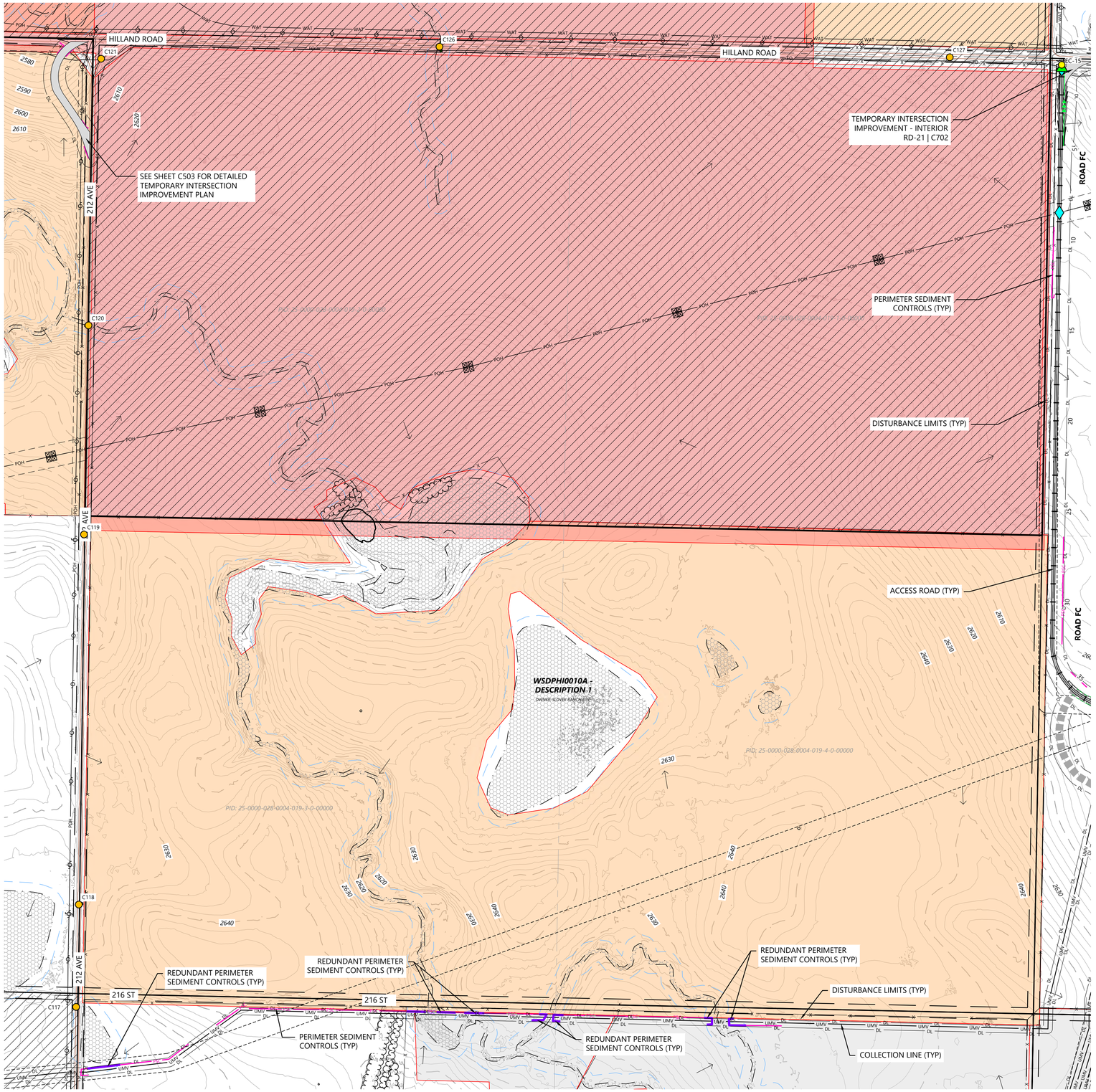
Haakon County, South Dakota

Site Plan

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DATE: 05/07/2026
SHEET: C324
REV: B

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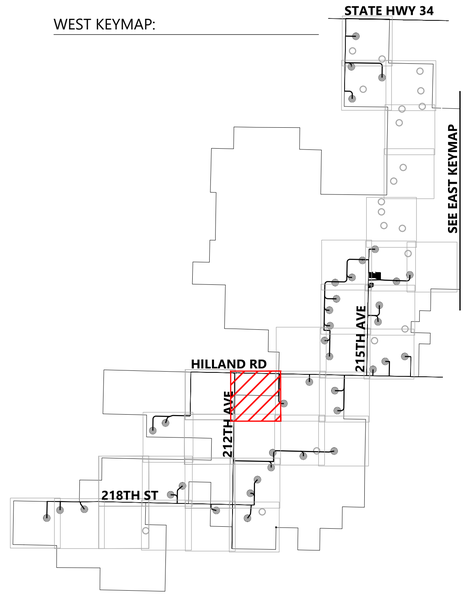
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DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 300' 600' 900'

Philip Wind Project

Haakon County, South Dakota

Site Plan

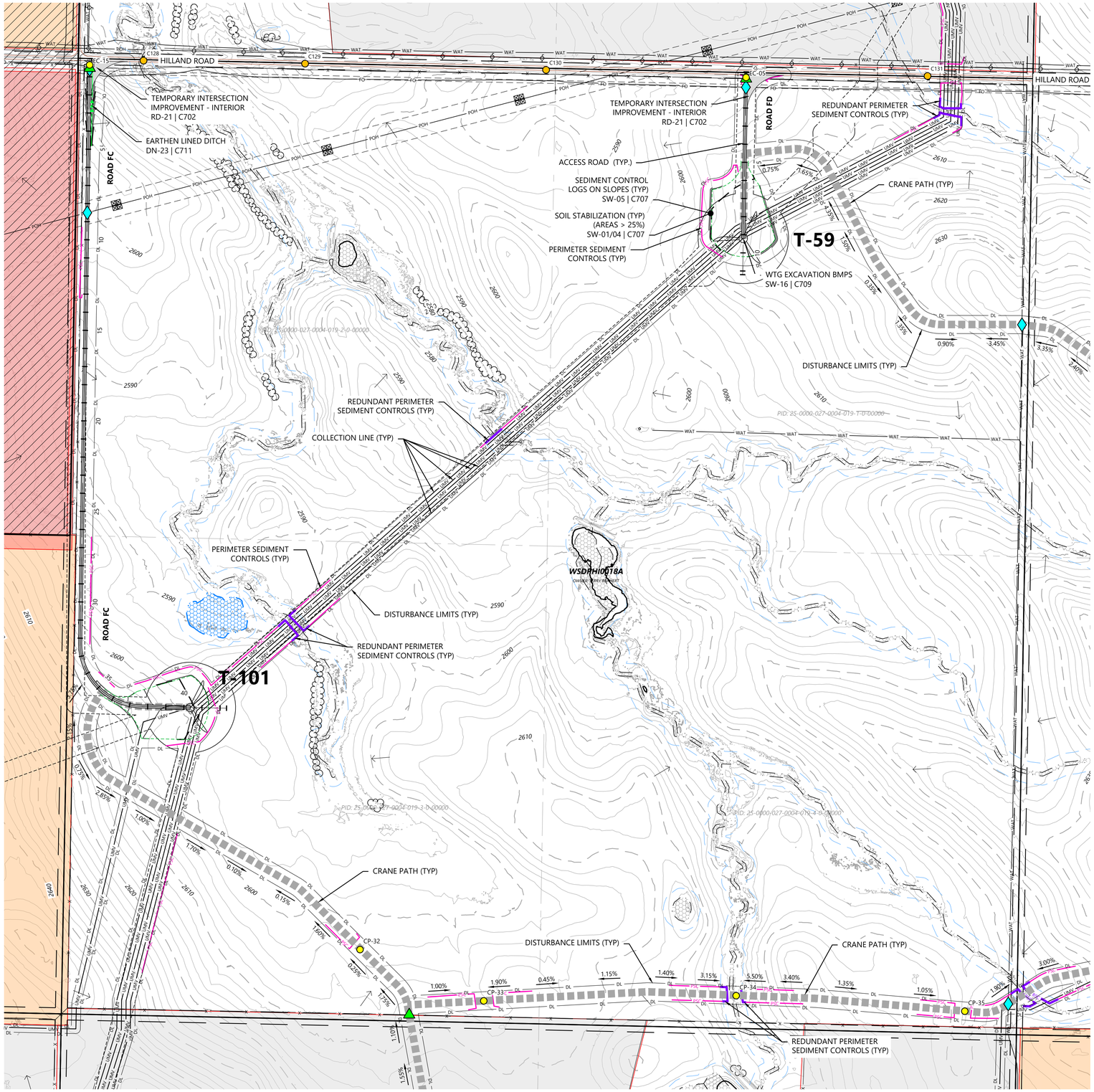
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C325

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
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- FIBER OPTIC LINE
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- UNKNOWN UTILITY LINE
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- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
- ENVIRONMENTALLY SENSITIVE AREA - AVOID
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PROPOSED:

- ## TURBINE LOCATION
- ## ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DC-# EC-# CP-# DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
- C-# EXISTING STRUCTURE
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- ROAD CROSS SLOPE DIRECTION

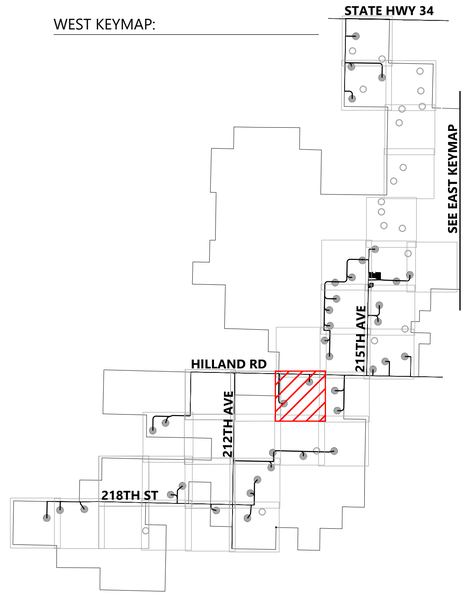
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WEST KEYMAP:



Westwood

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Toll Free (888) 937-5150
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Haakon County, South Dakota

Site Plan T-59 T-101

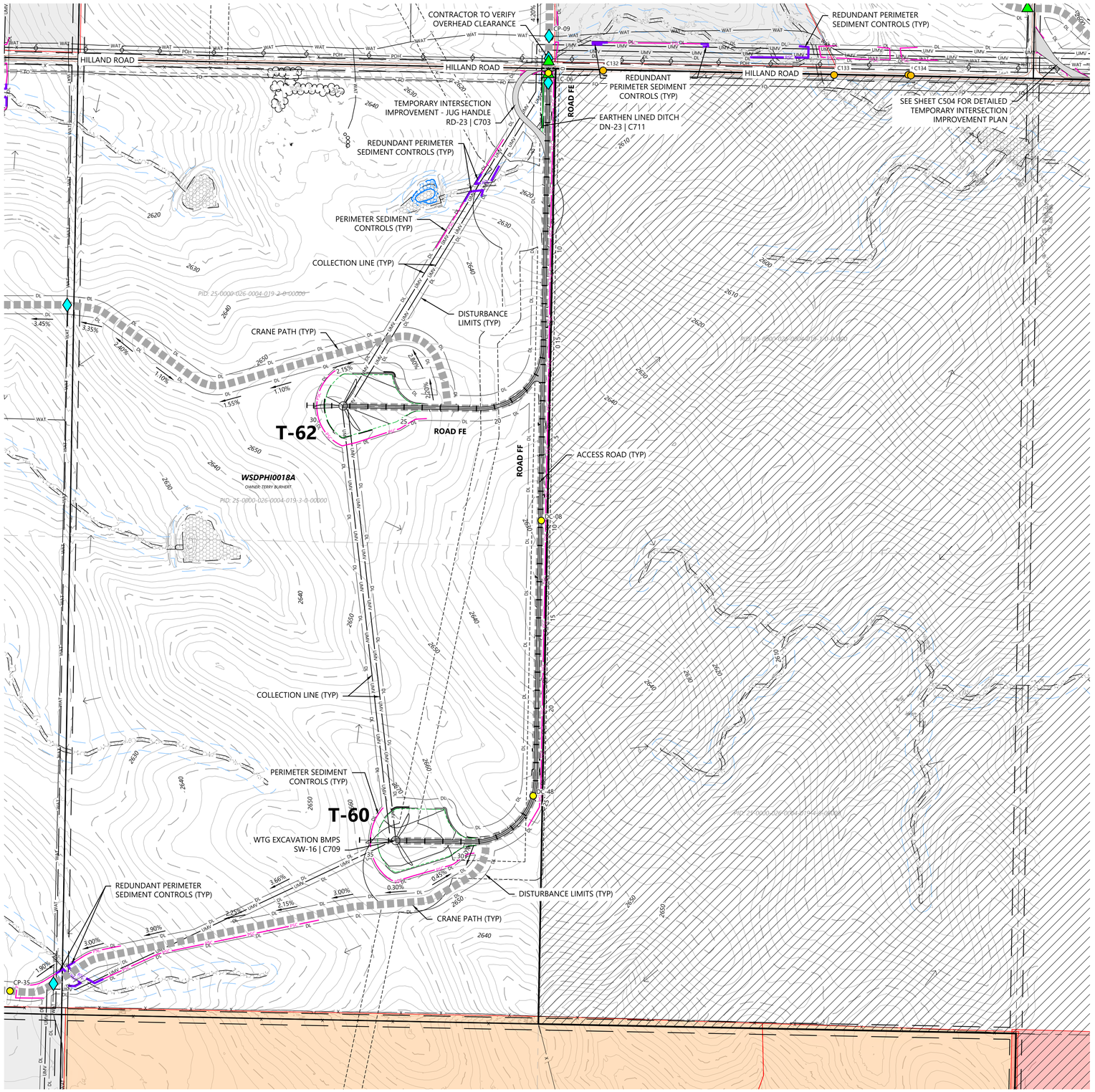
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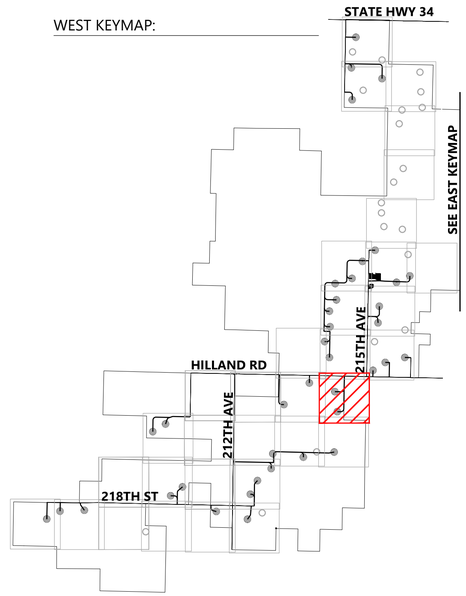
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Site Plan T-60 T-62

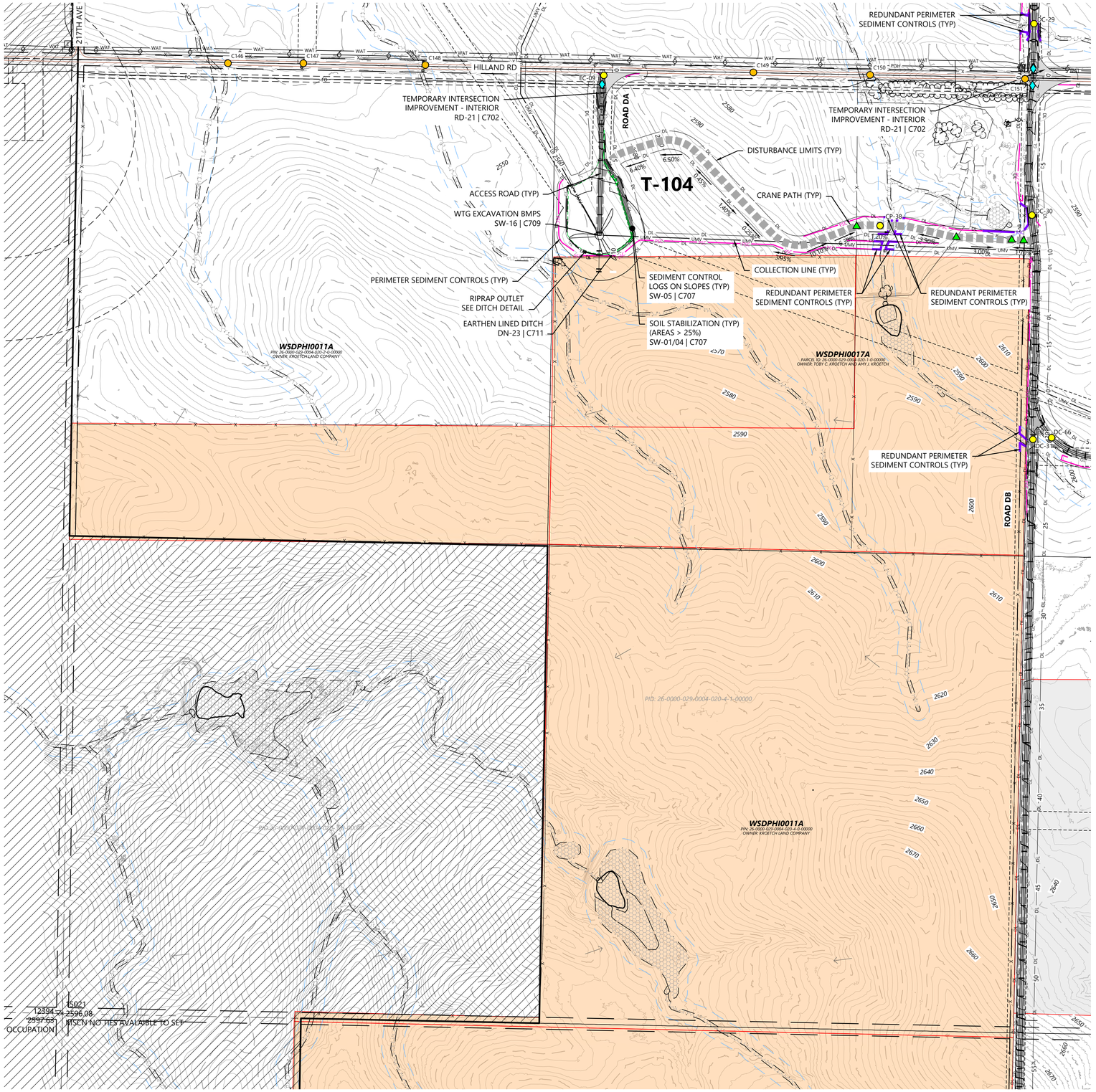
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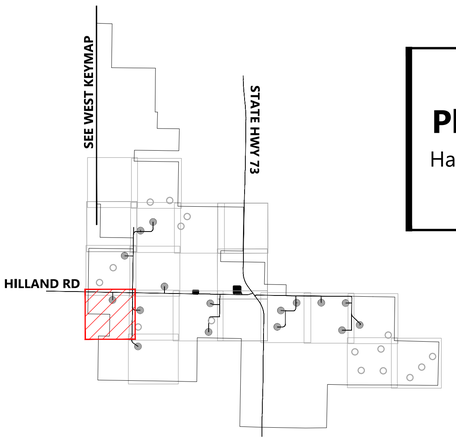
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EAST KEYMAP:



0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-104

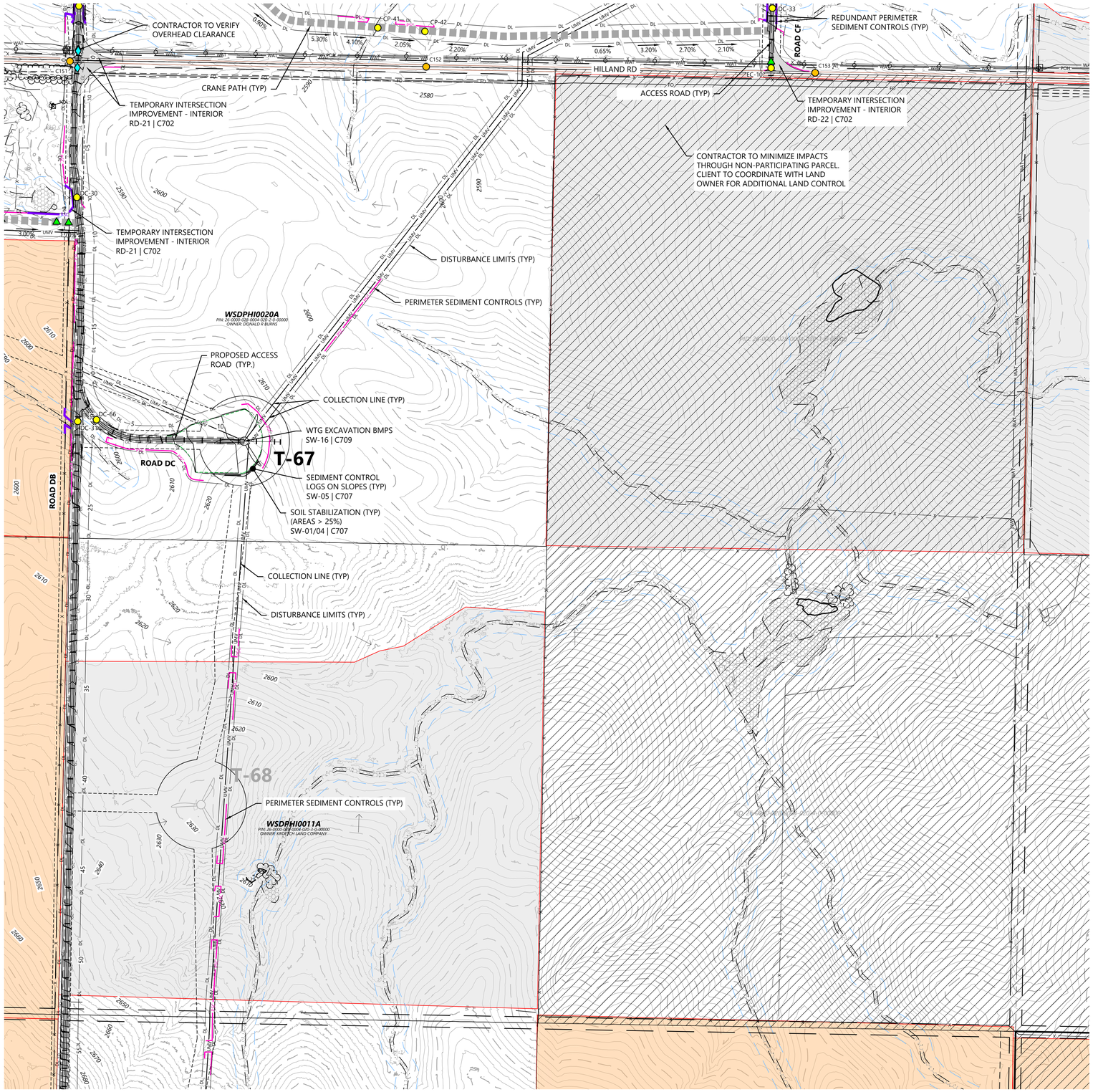
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DATE: 05/07/2026

SHEET: C328

REV: B

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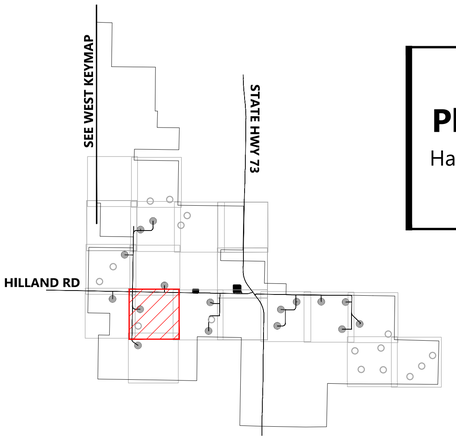
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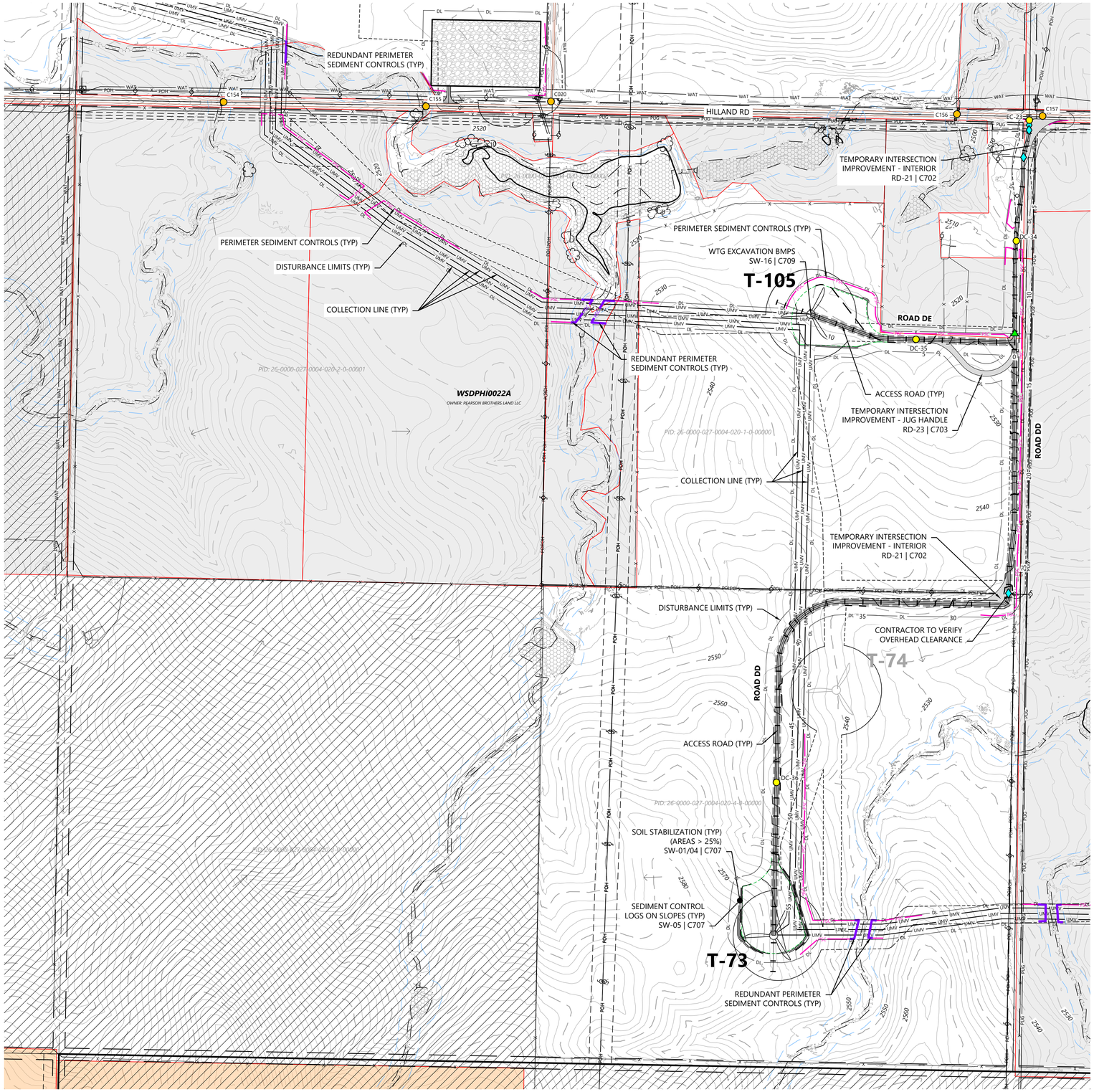
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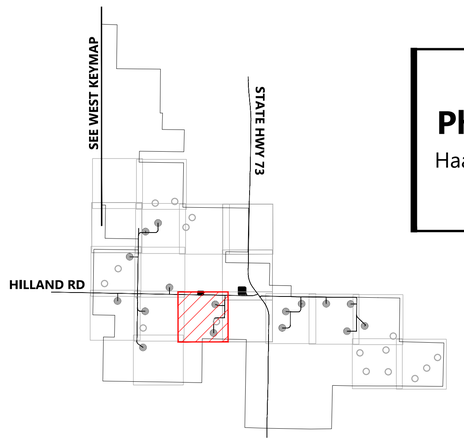
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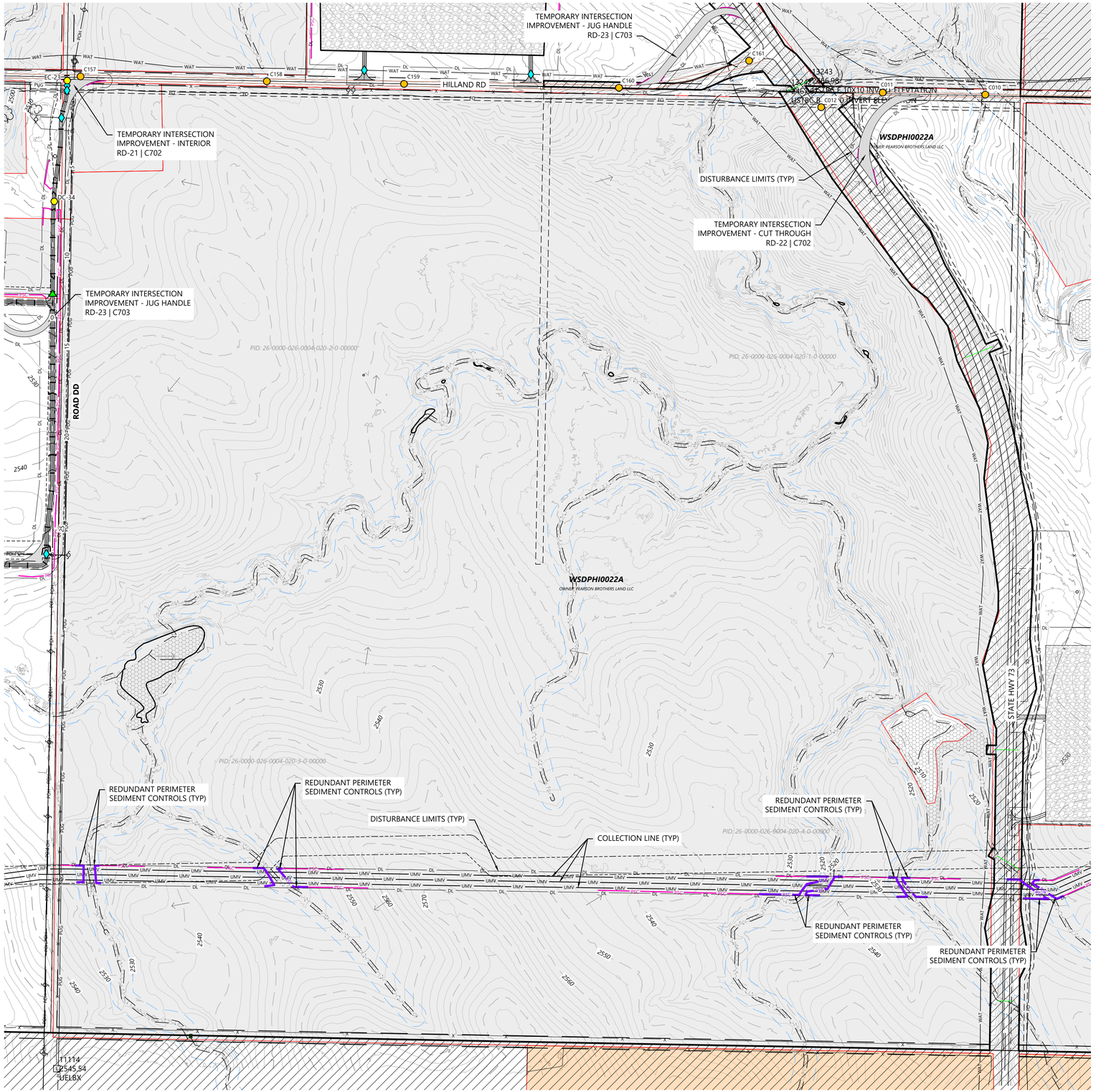
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- CULVERT
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- WETLAND (DELINEATED)
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- DRAINAGE DIRECTION
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- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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- ALT. TURBINE LOCATION
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- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
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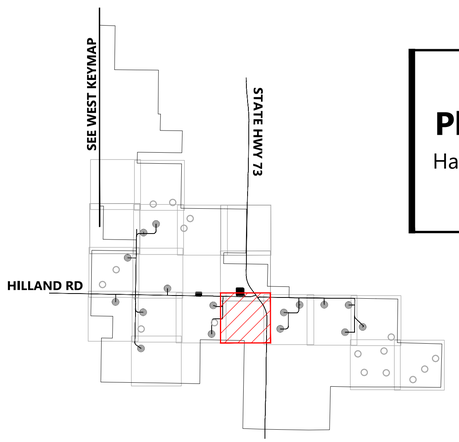
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EAST KEYMAP:



0' 300' 600' 900'

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DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
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392 County Road 50
Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

Site Plan

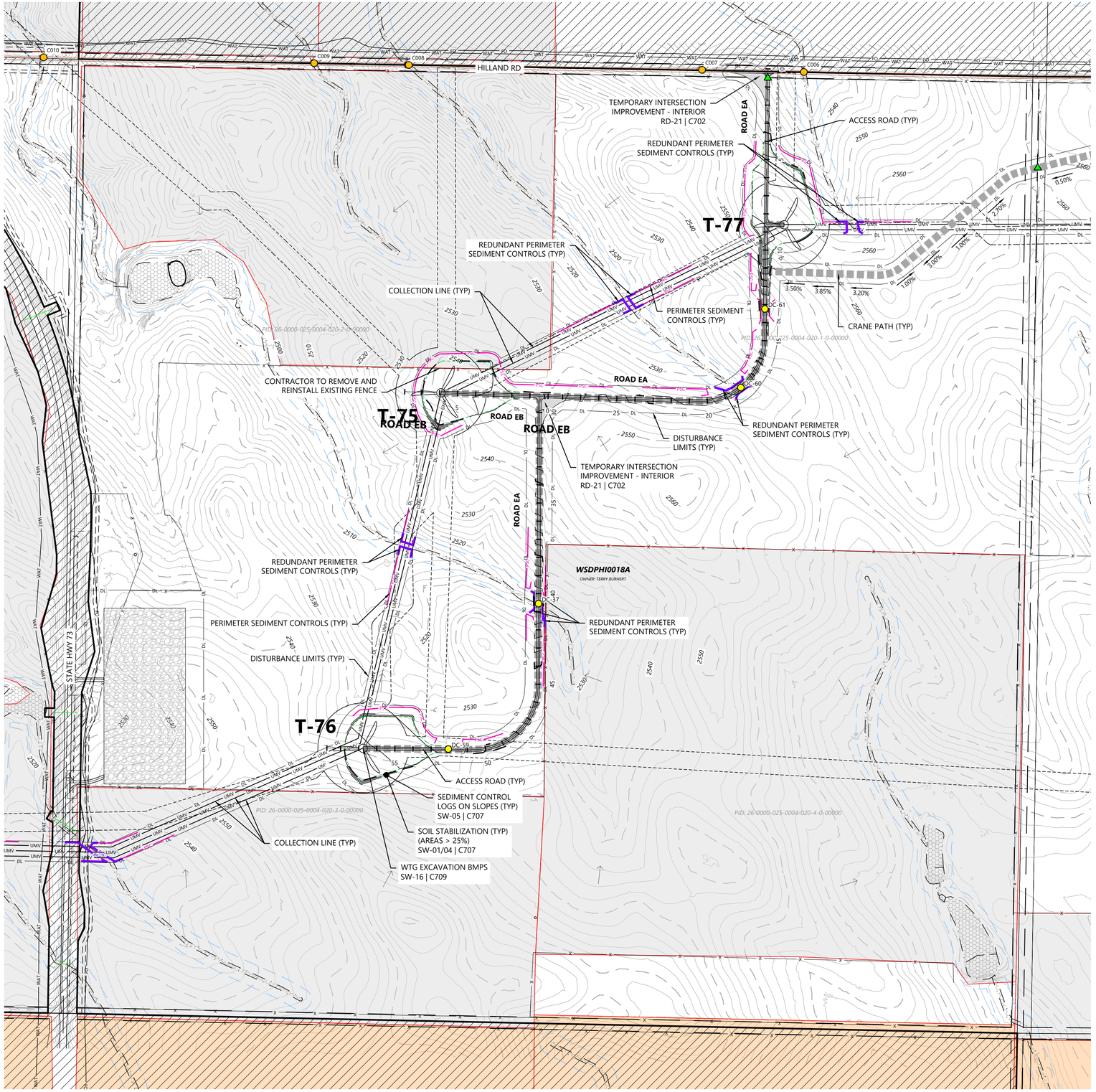
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C331

REV: B

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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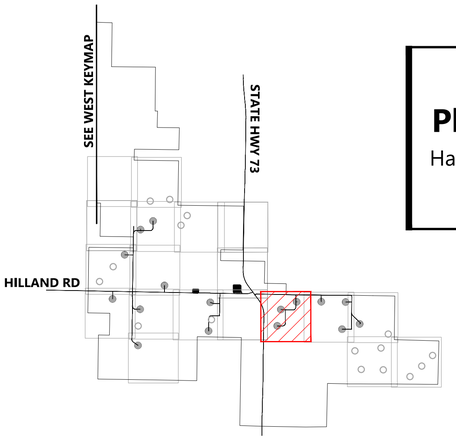
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EAST KEYMAP:



0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-75 T-76 T-77

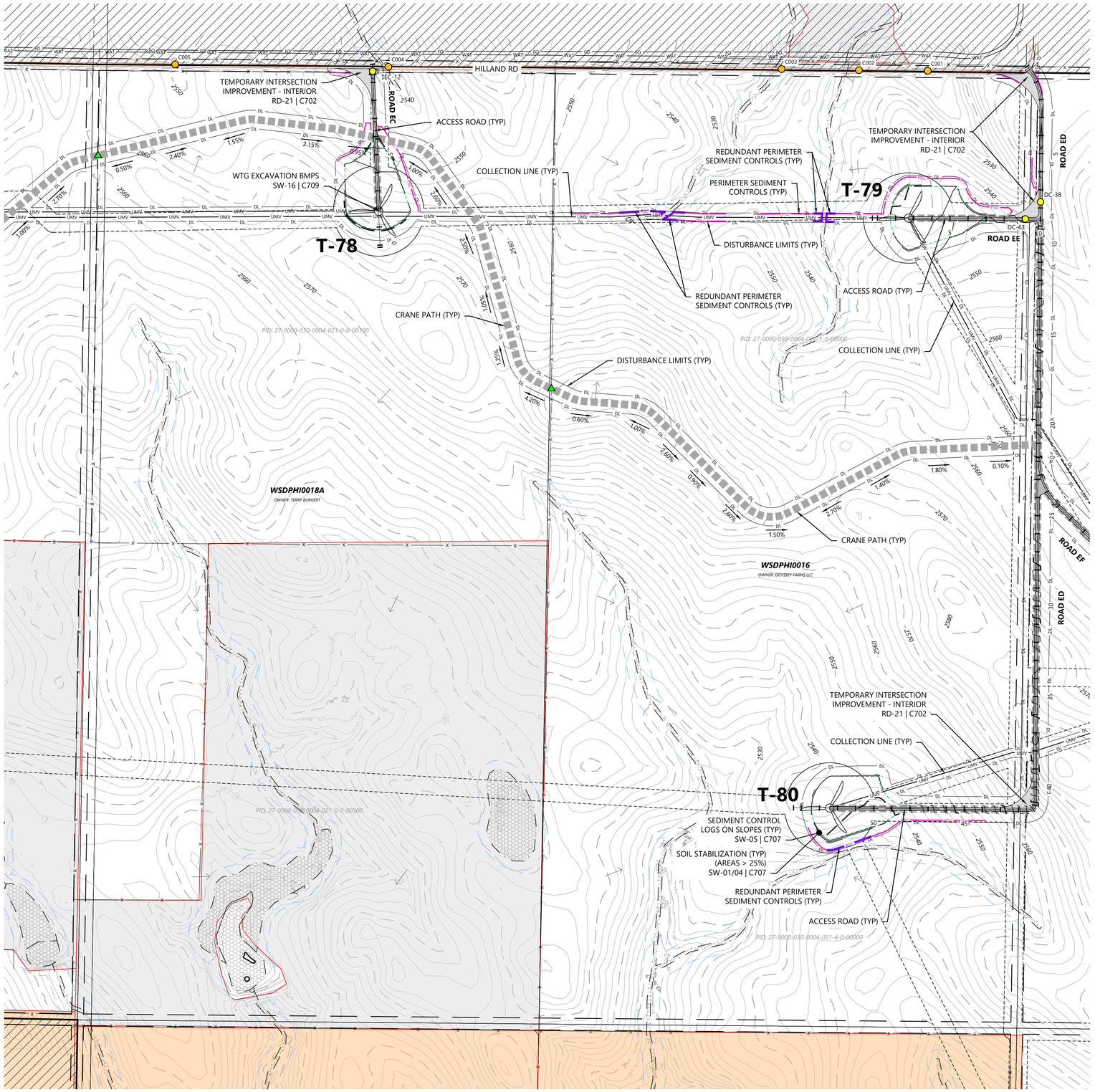
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C332

REV: B

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
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- INDEX CONTOUR
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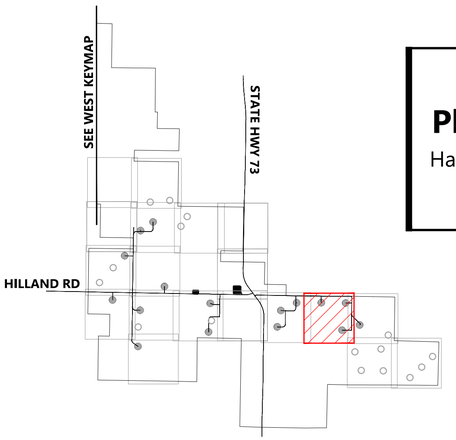
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EAST KEYMAP:



0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-78 T-79 T-80

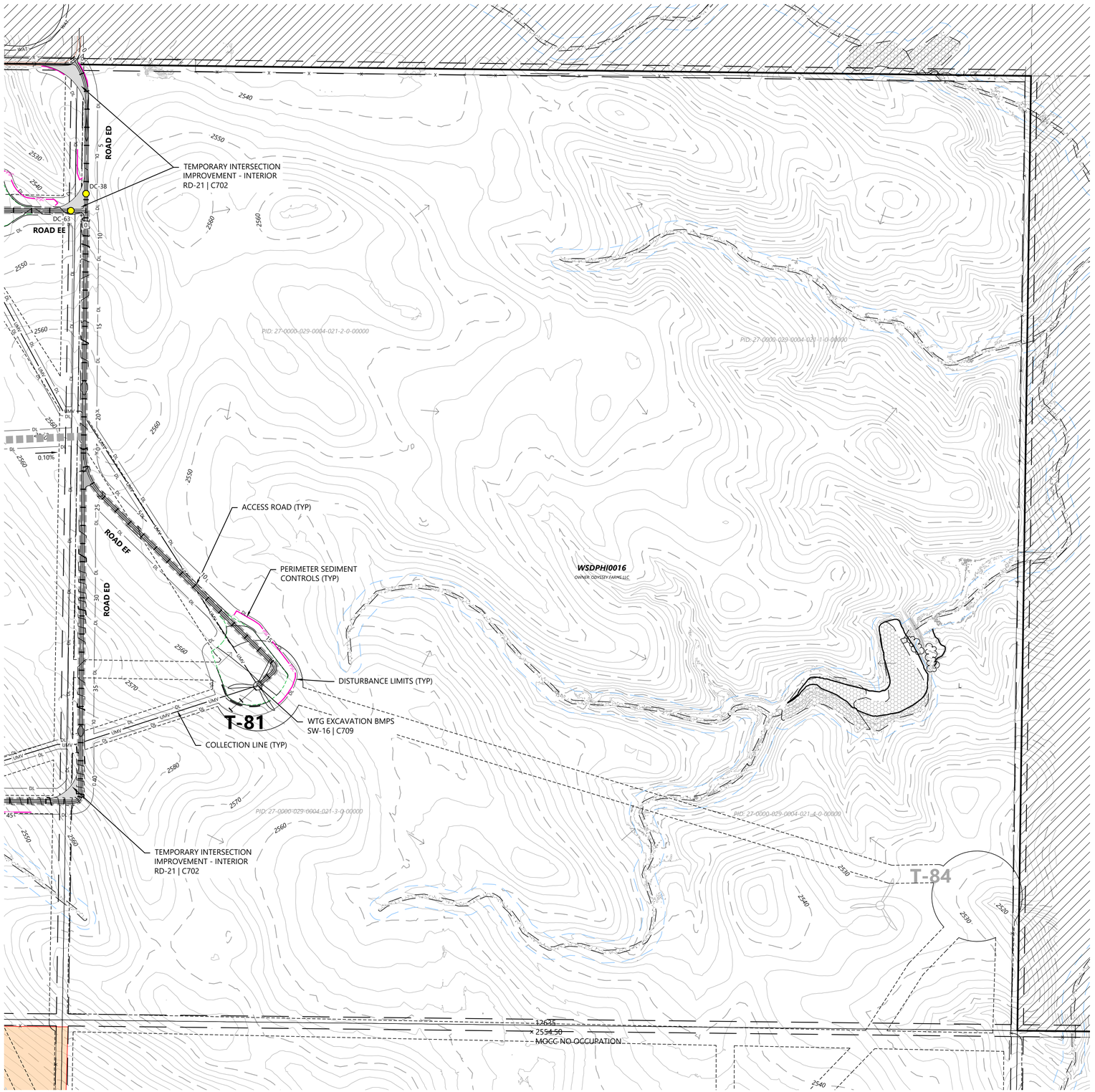
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DATE: 05/07/2026

SHEET: C333

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
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- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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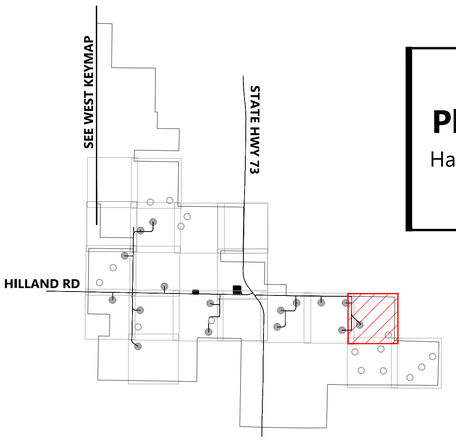
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0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-81 T-84

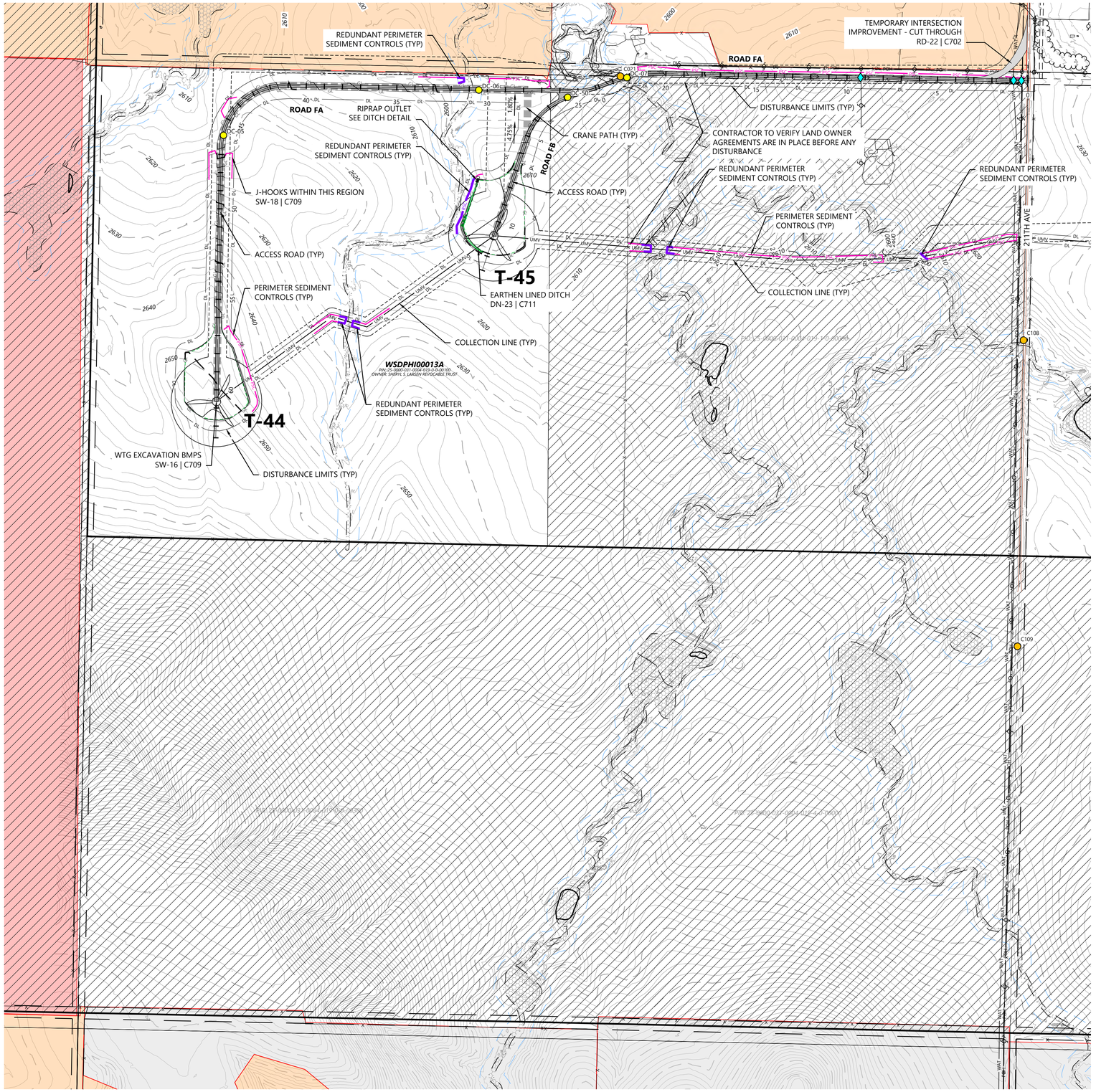
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DATE: 05/07/2026

SHEET: C334

REV: B

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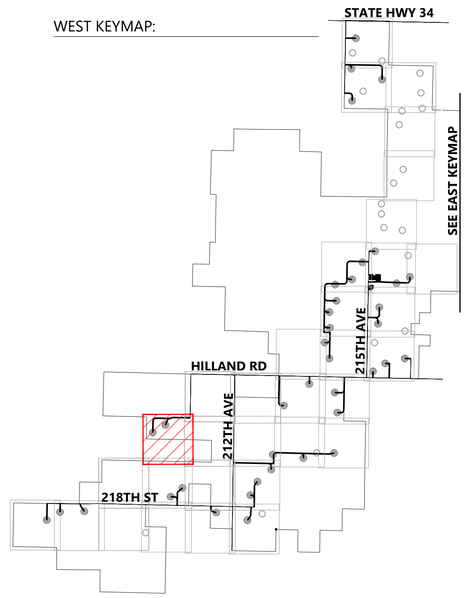
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Philip Wind Project

Haakon County, South Dakota

Site Plan T-44 T-45

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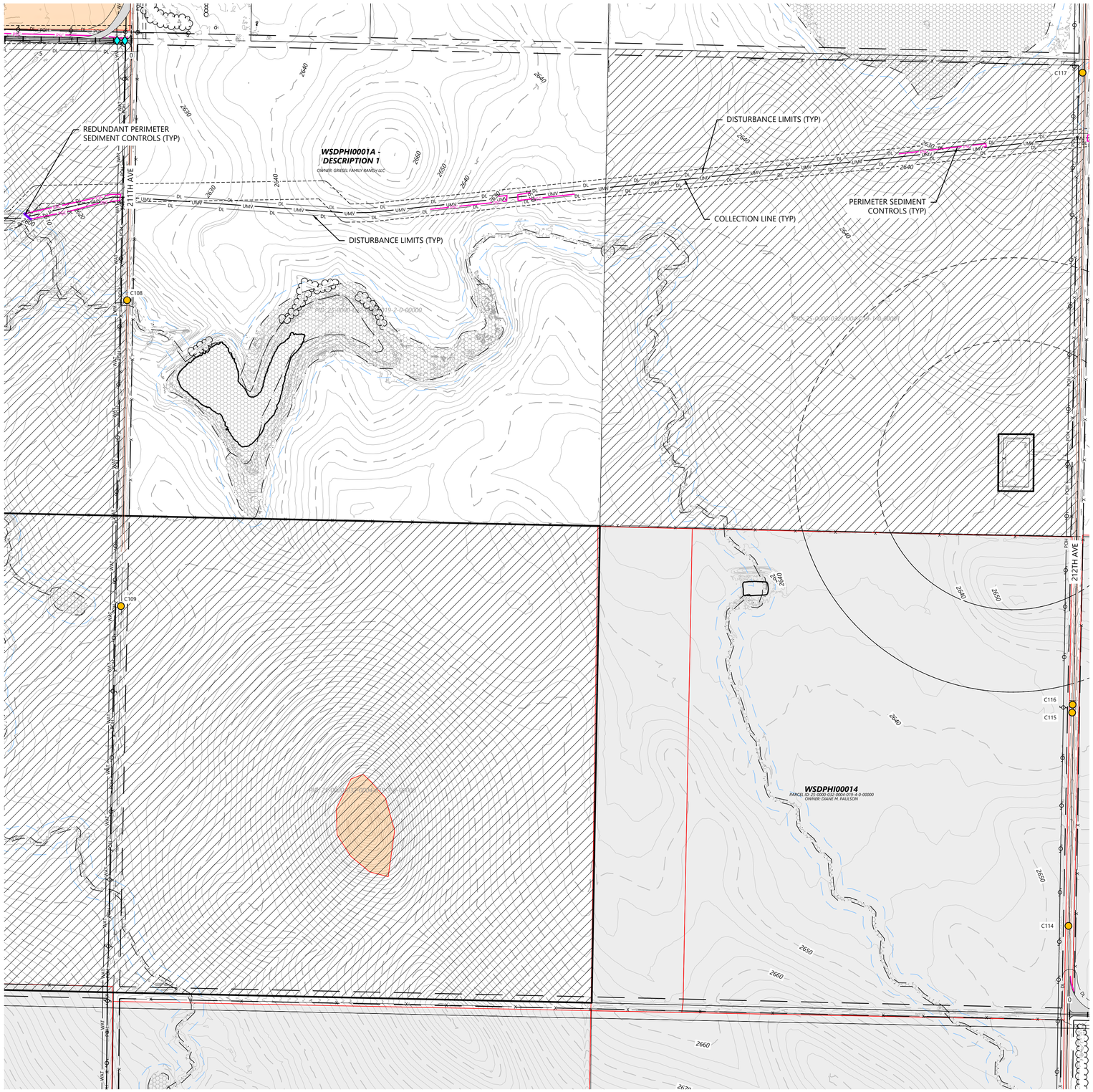
DATE: 05/07/2026

SHEET: C335

REV: B

Know what's below. Call before you dig.

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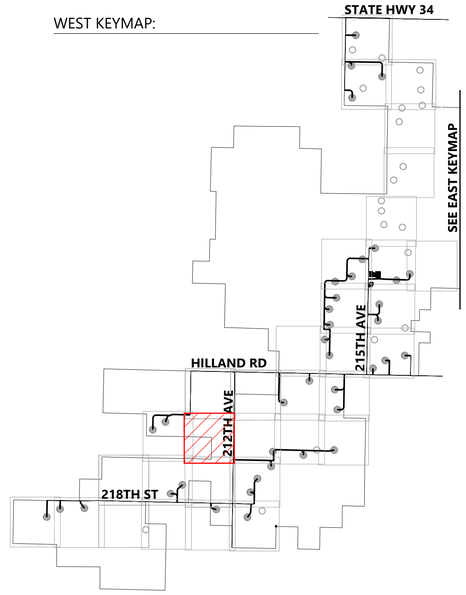
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WEST KEYMAP:



Westwood

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westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 300' 600' 900'

Philip Wind Project

Haakon County, South Dakota

Site Plan

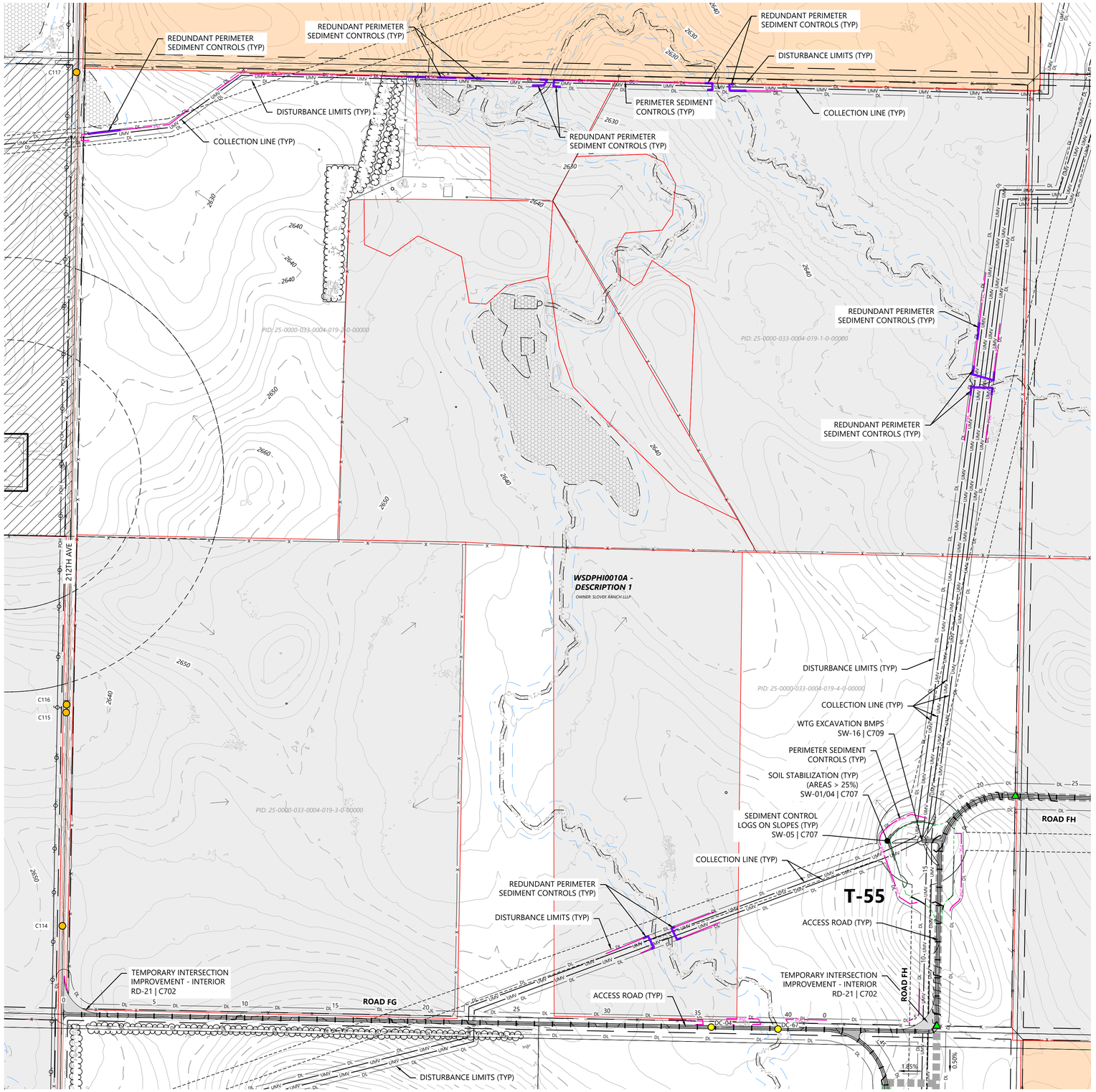
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C336

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
- WATERCOURSE LINE (DELINEATED)
- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
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- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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PROPOSED:

- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UNDERGROUND COLLECTION
- OVERHEAD TRANSMISSION
- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
- EXISTING STRUCTURE
- FENCE CROSSING
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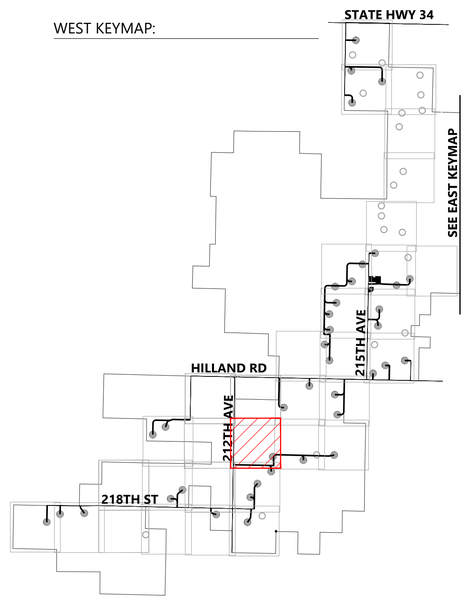
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Philip Wind Project

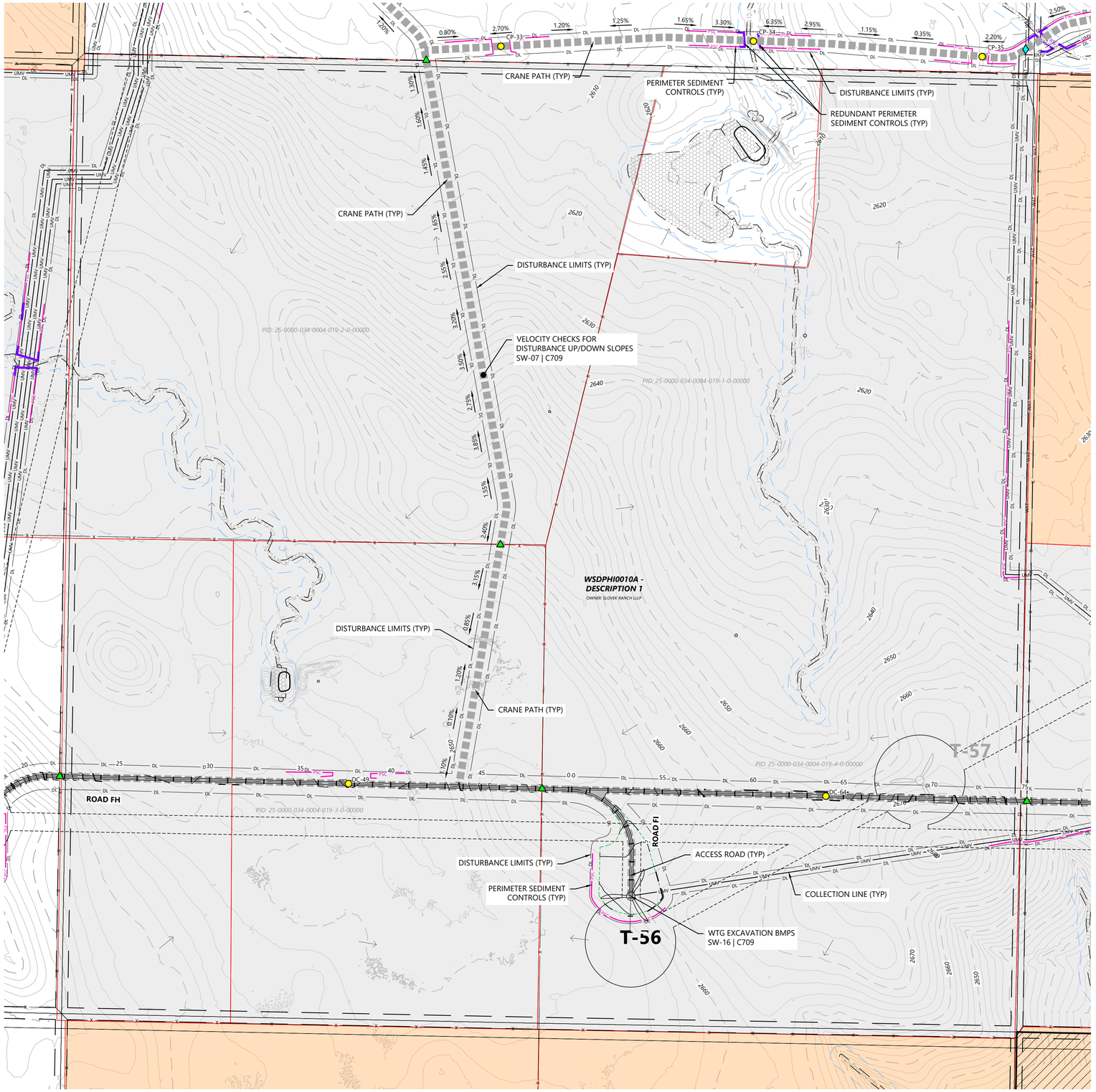
Haakon County, South Dakota

Site Plan T-55

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C337
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
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- TEMPORARY AGGREGATE
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- OVERHEAD TRANSMISSION
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- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
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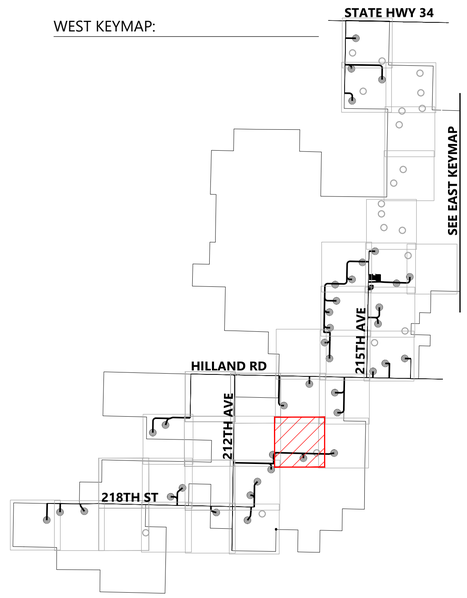
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WEST KEYMAP:



0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-56 T-57

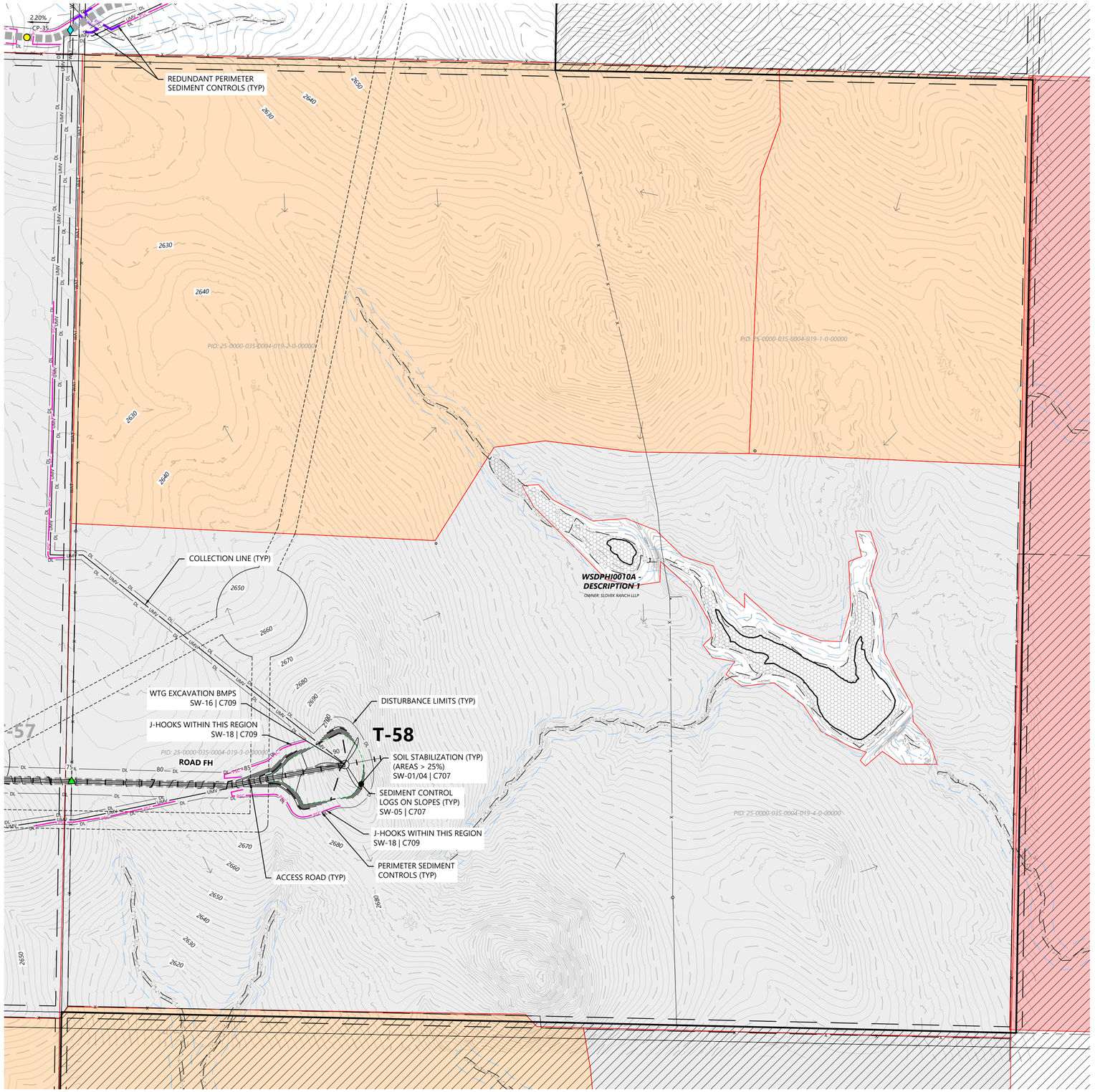
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C338

REV: B

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LEGEND:

EXISTING:

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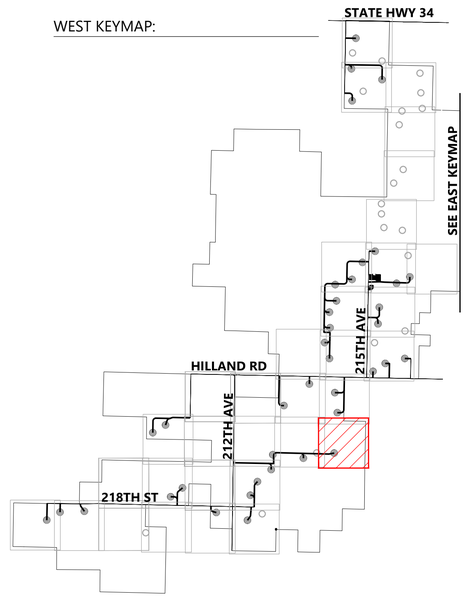
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Philip Wind Project

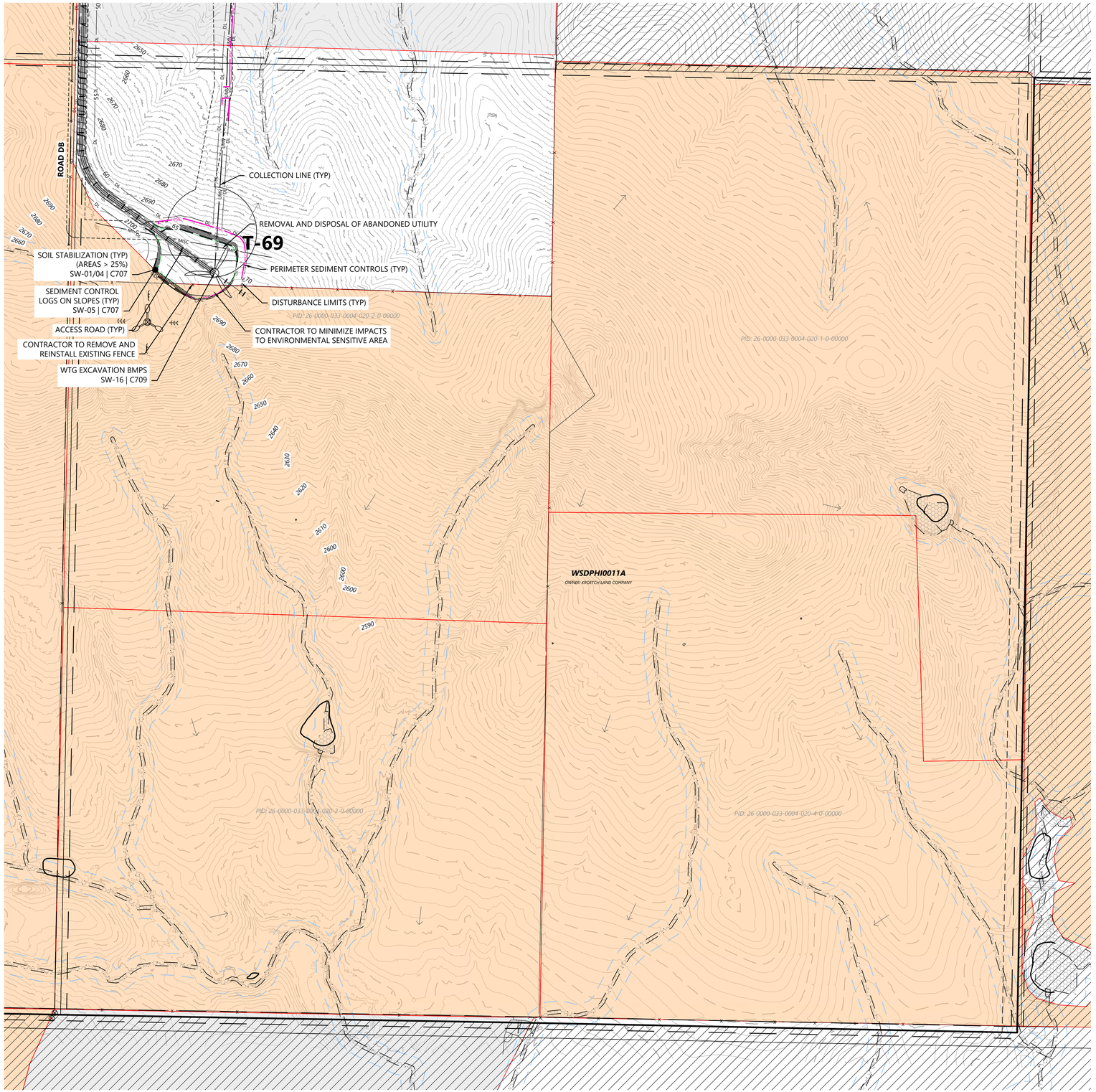
Haakon County, South Dakota

Site Plan T-58

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C339
REV: B

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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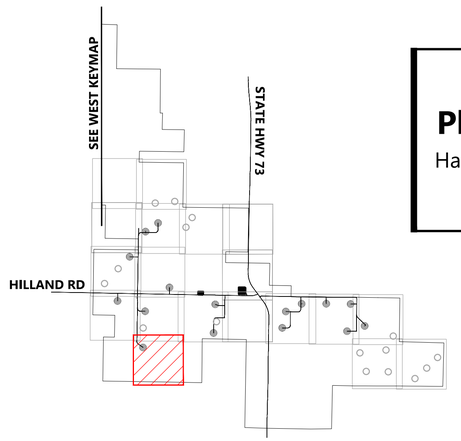
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Haakon County, South Dakota

Site Plan T-69

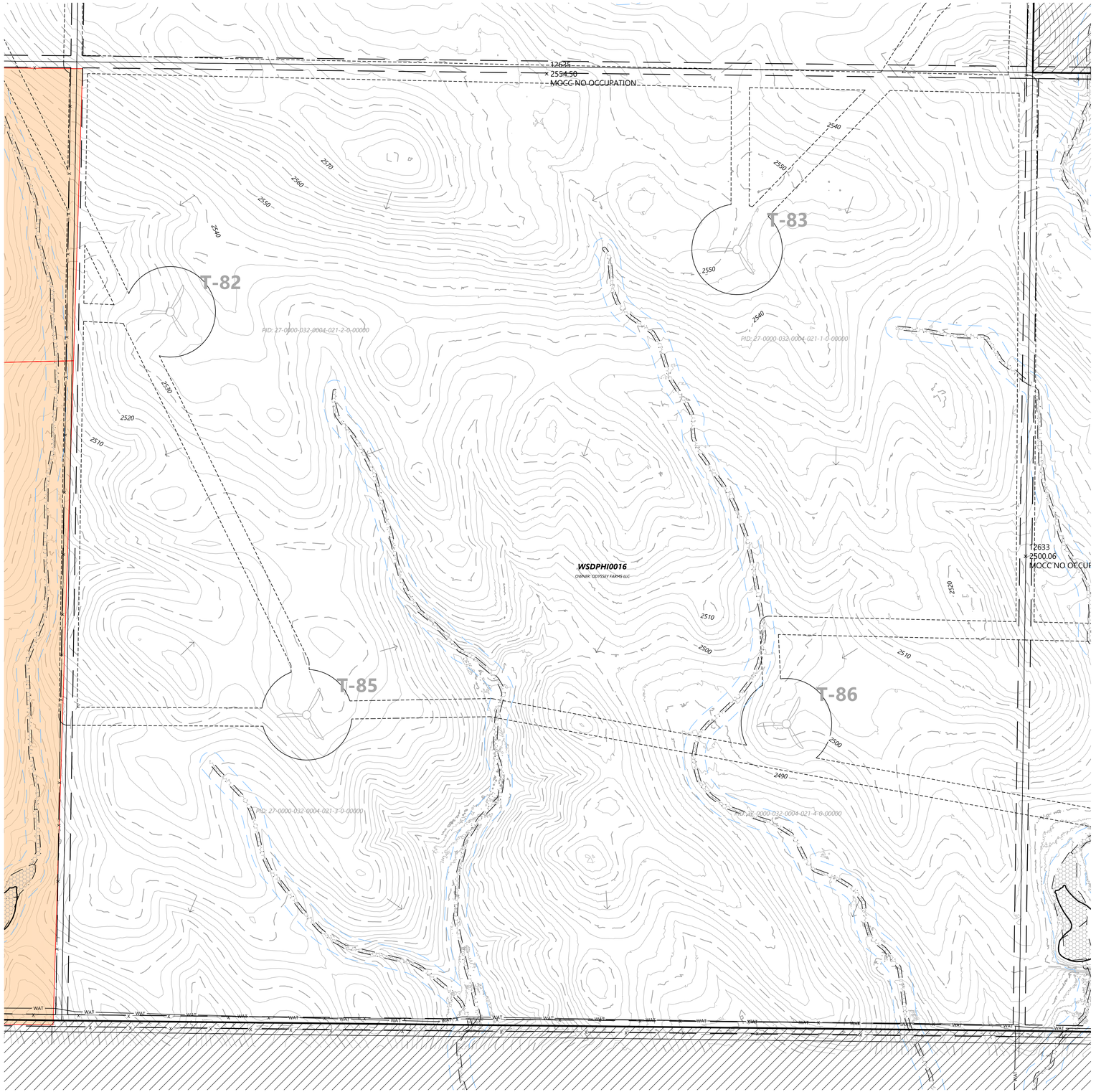
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C340

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- 900 INDEX CONTOUR
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- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DC-# EC-# CP-# DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
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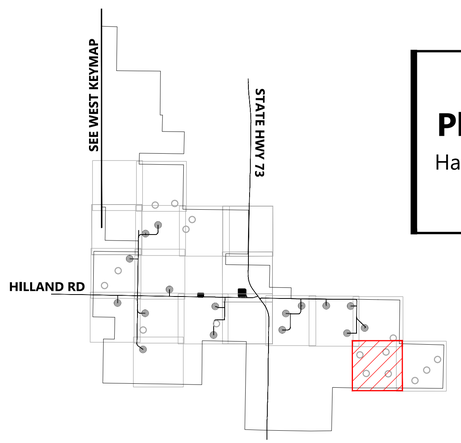
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EAST KEYMAP:



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DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
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Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-82 T-83 T-85 T-86

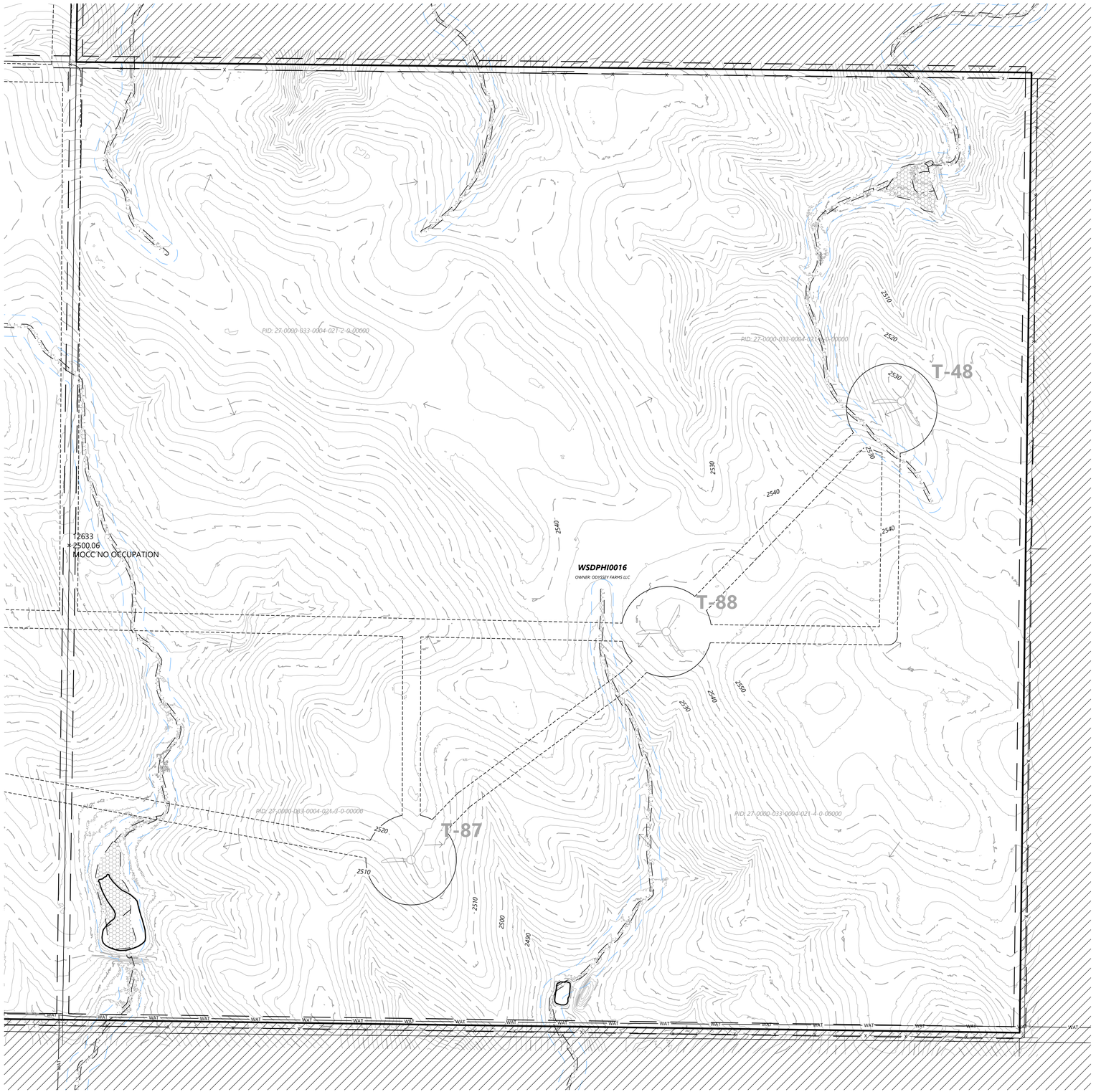
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DATE: 05/07/2026

SHEET: C341

REV: B

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- 900 INDEX CONTOUR
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- POH OVERHEAD POWER
- FO FIBER OPTIC LINE
- WAT WATER LINE
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- ACCESS ROAD WITH CRANE PATH
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- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
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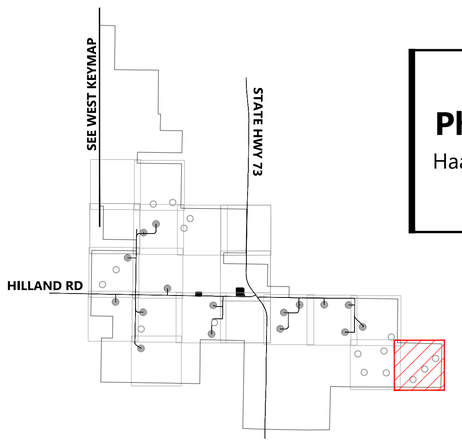
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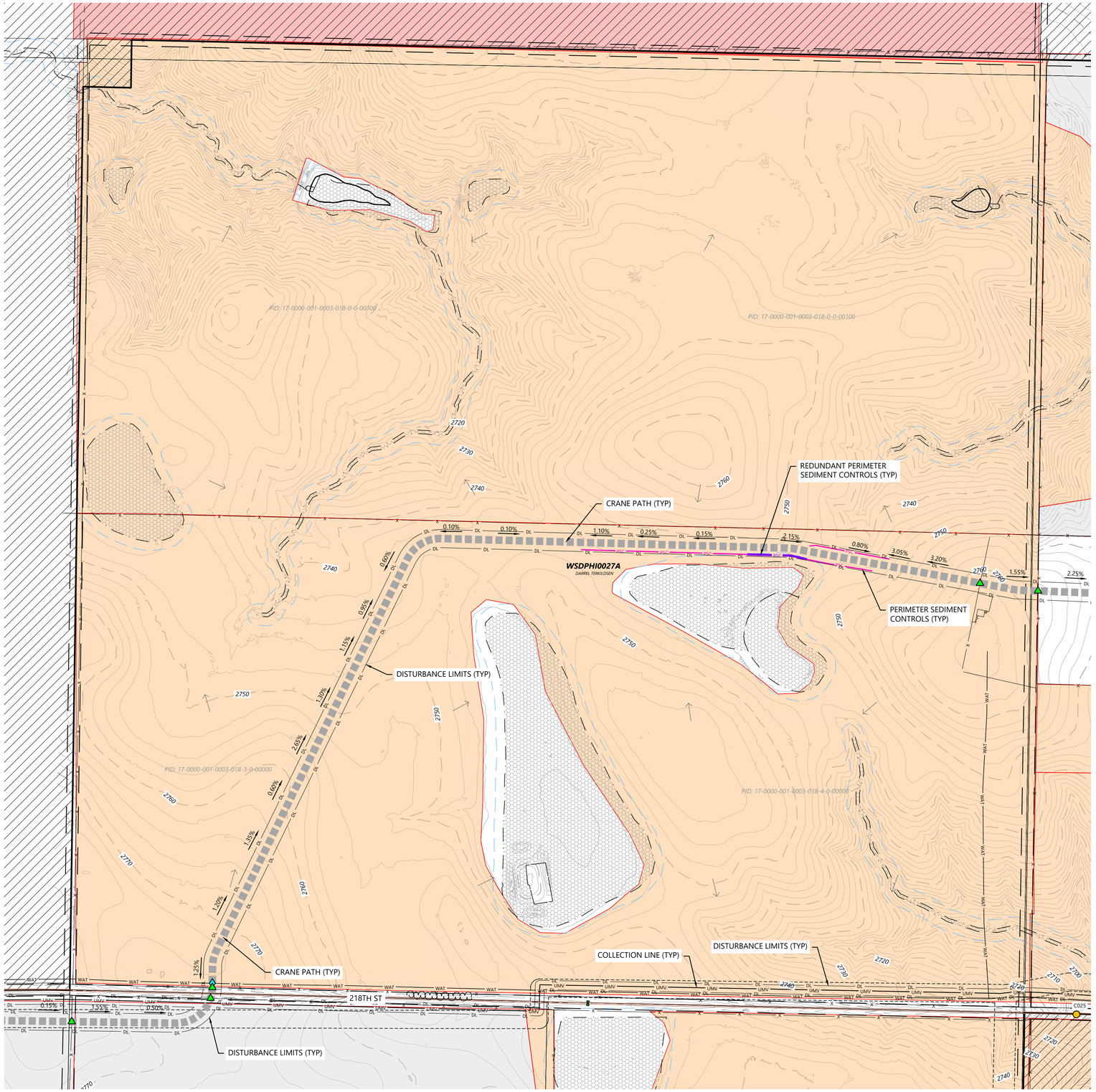
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SHEET: C342

REV: B

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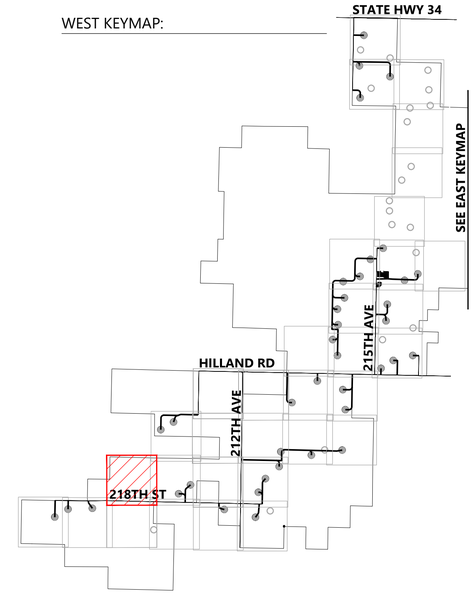
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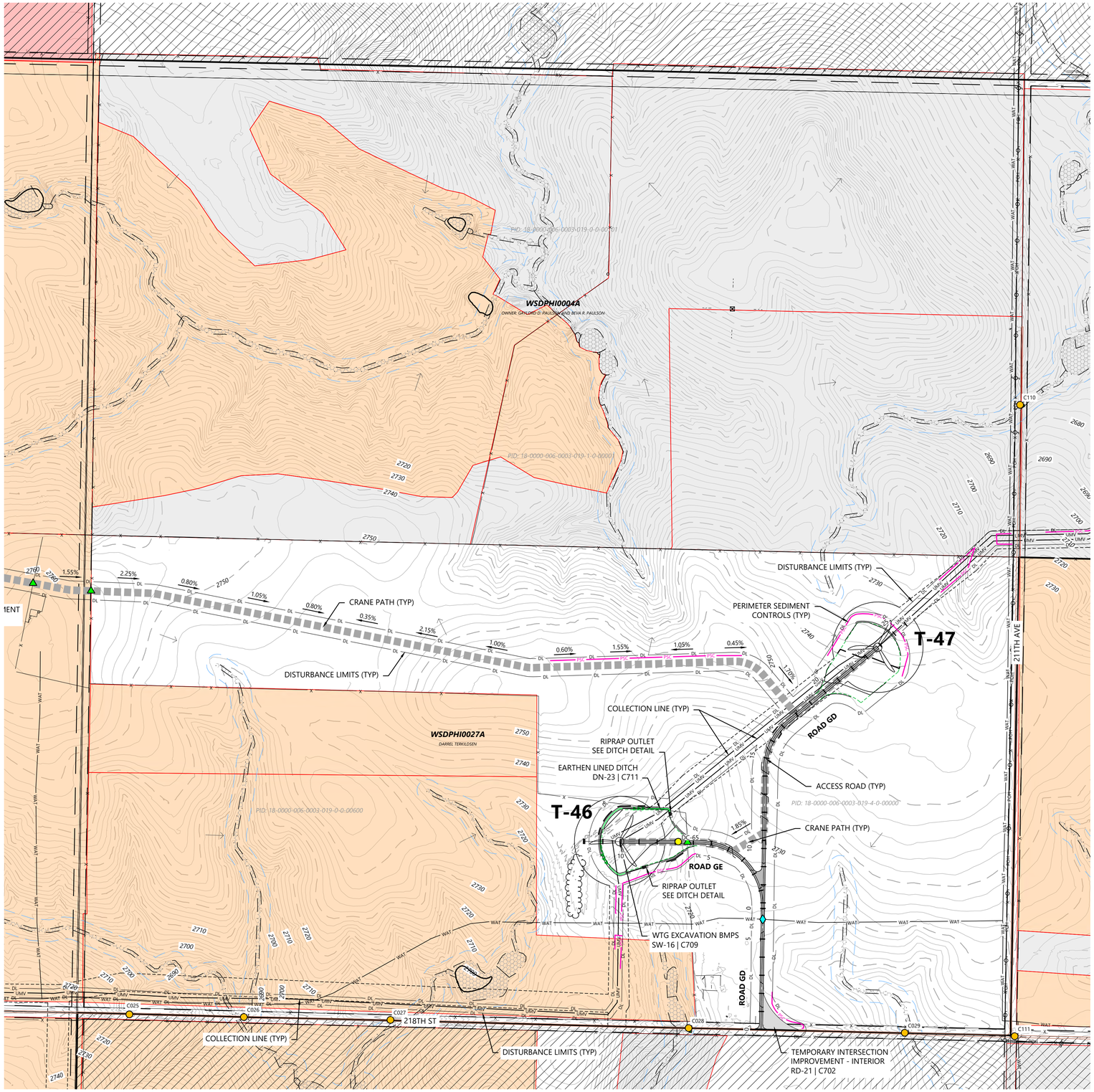
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SHEET: C343

REV: B

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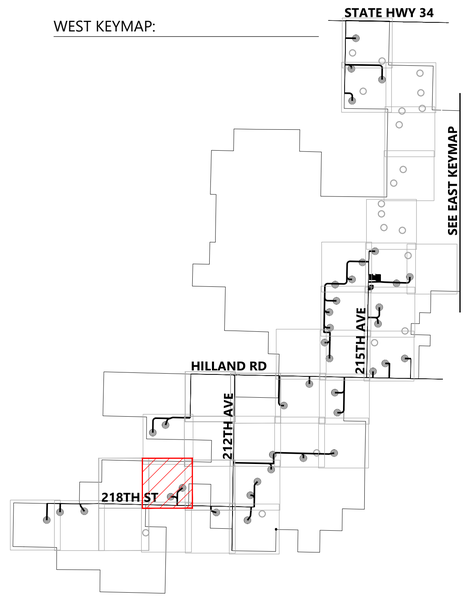
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0' 300' 600' 900'

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Philip Wind Project

Haakon County, South Dakota

Site Plan T-46 T-47

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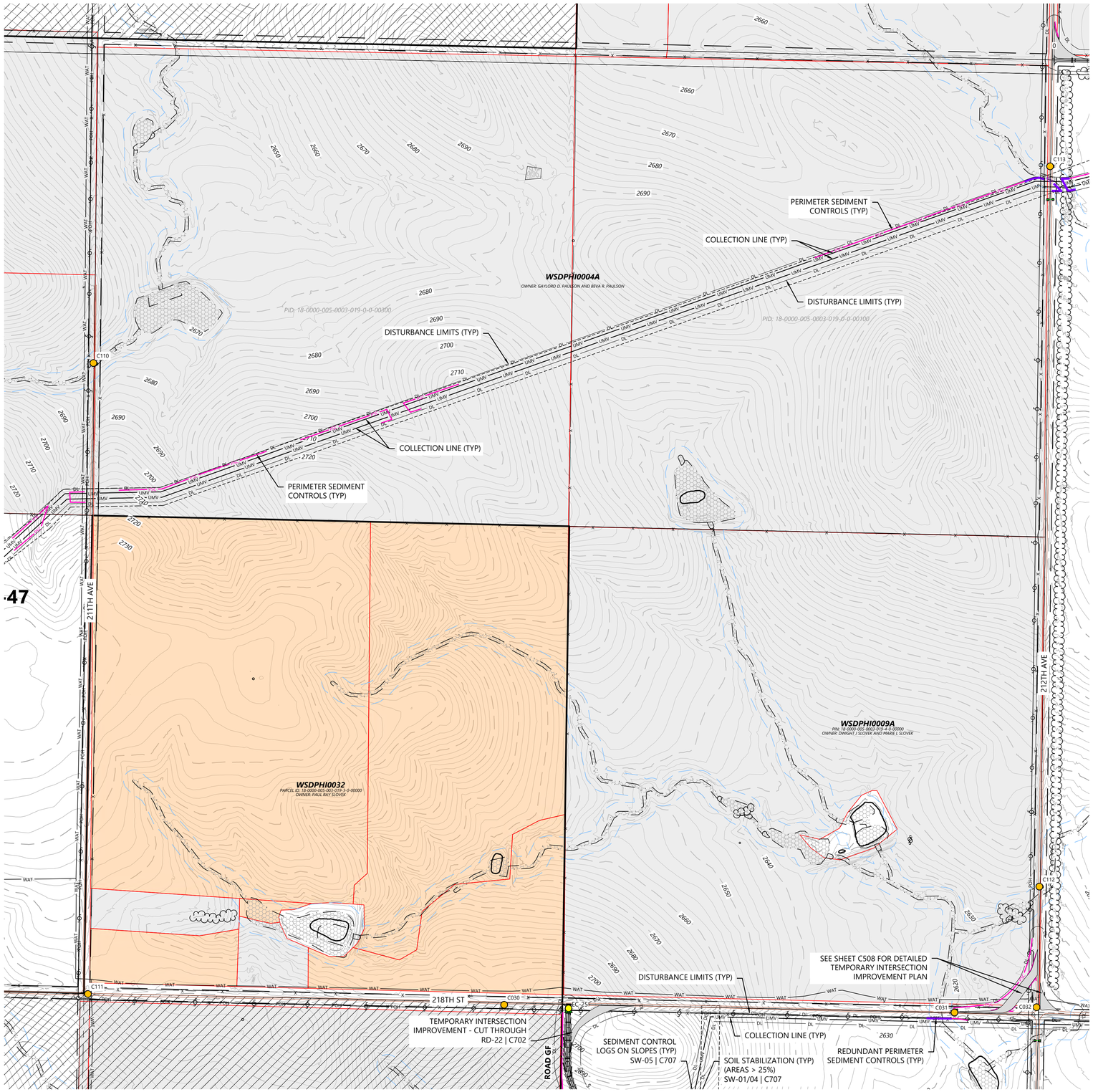
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SHEET: C344

REV: B

South Dakota 811 Know what's below. Call before you dig.

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47

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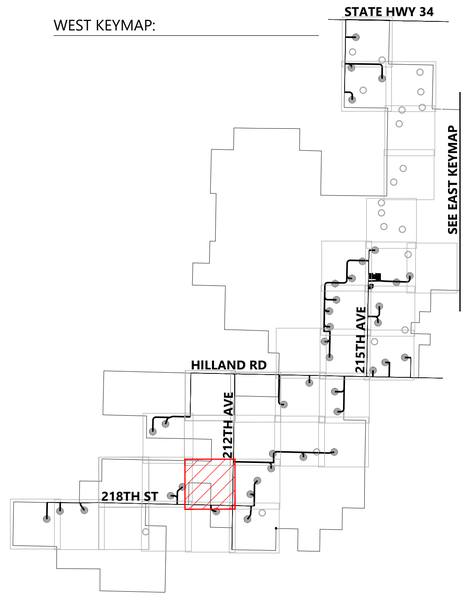
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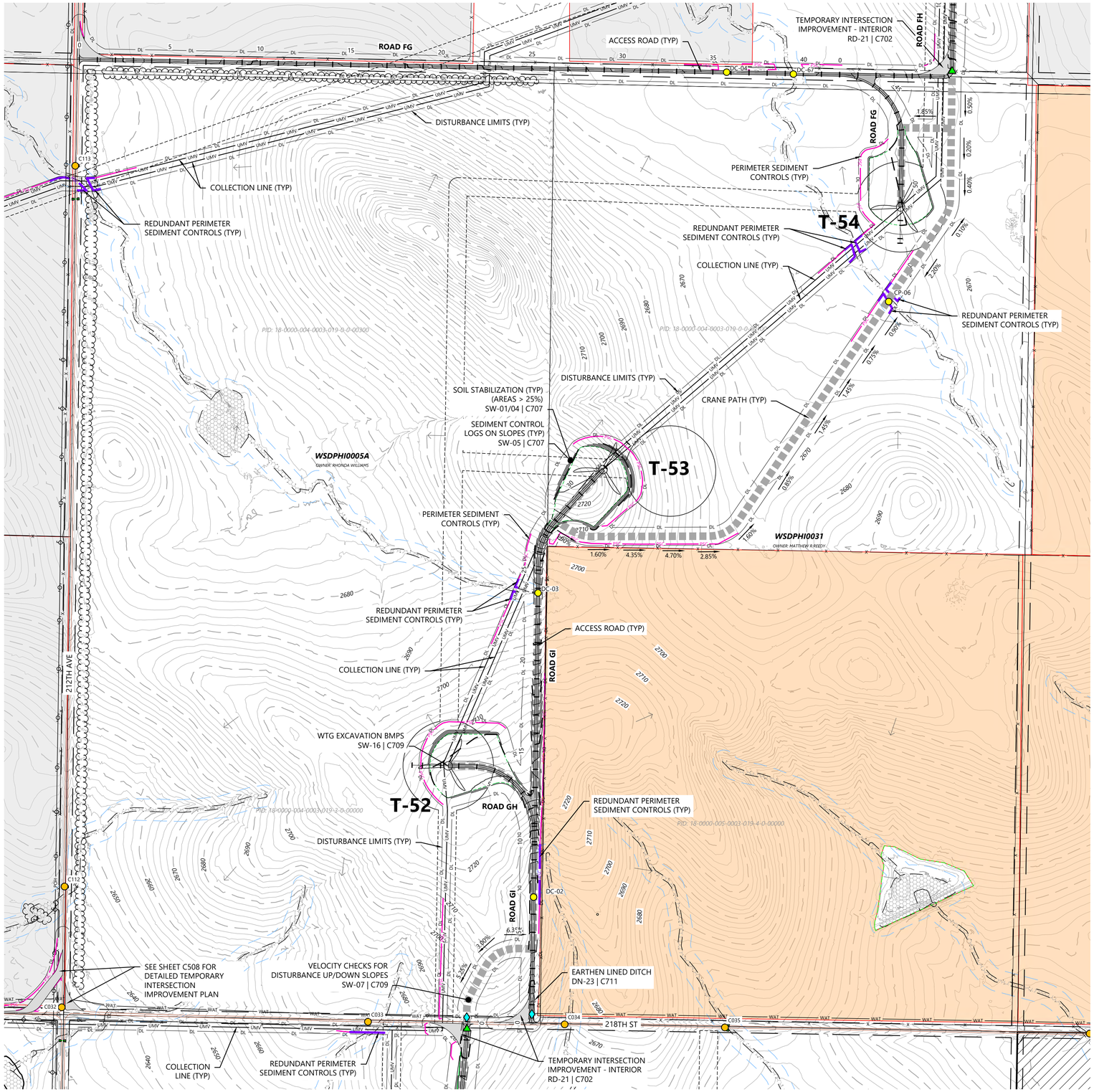
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Site Plan

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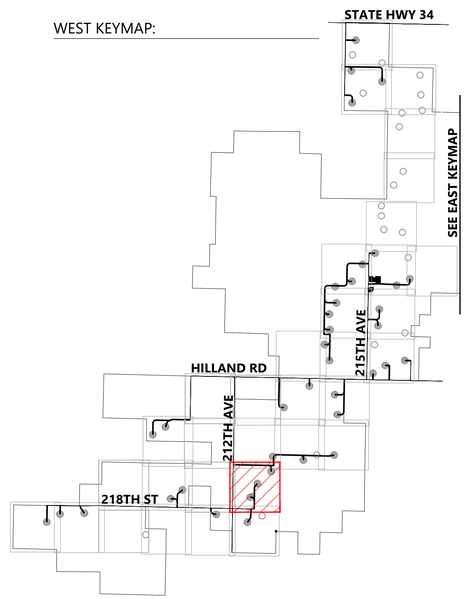
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392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 300' 600' 900'

Philip Wind Project

Haakon County, South Dakota

Site Plan T-34 T-52 T-53

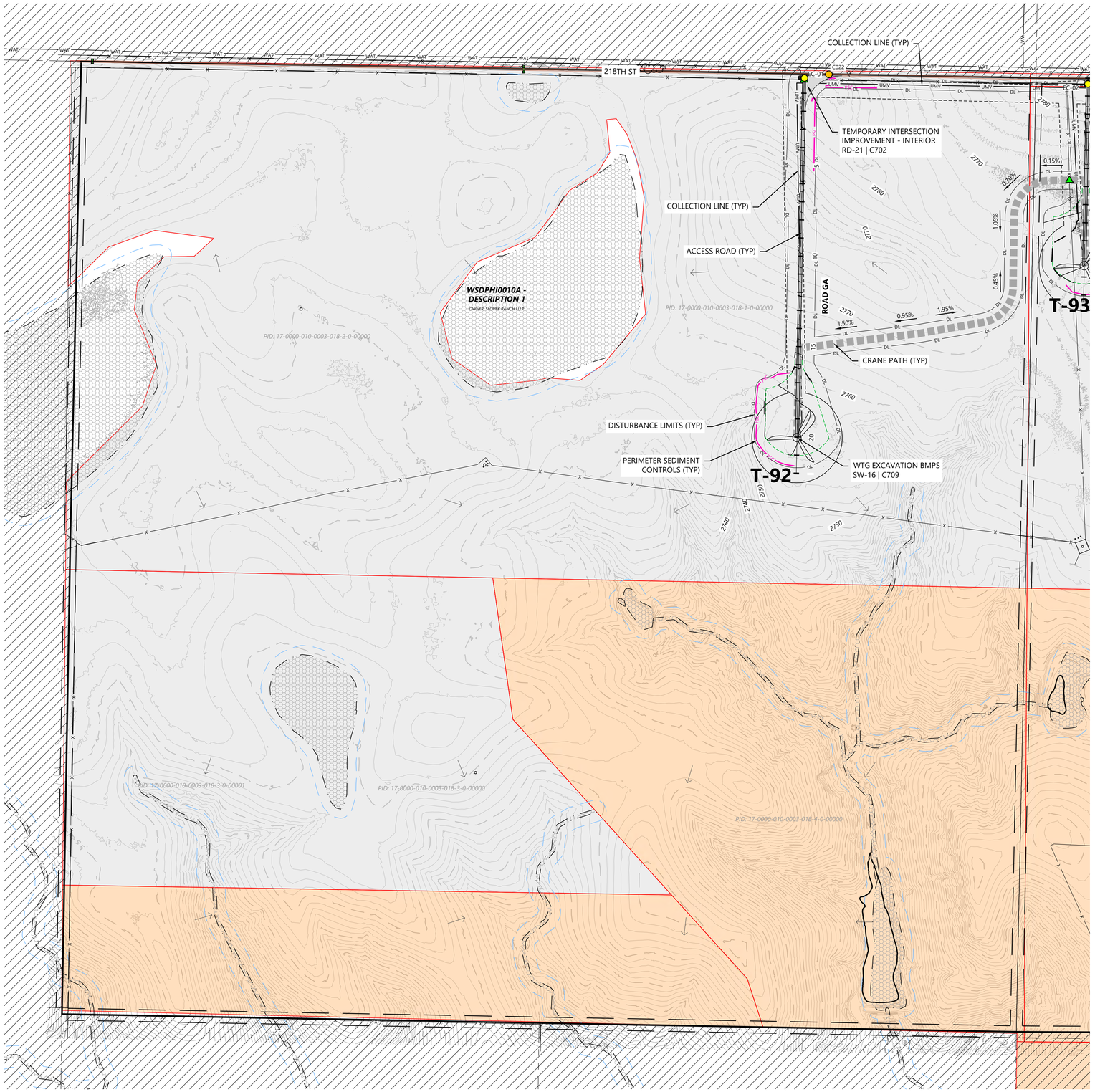
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DATE: 05/07/2026

SHEET: C346

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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- TREELINE
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- ALT. TURBINE LOCATION
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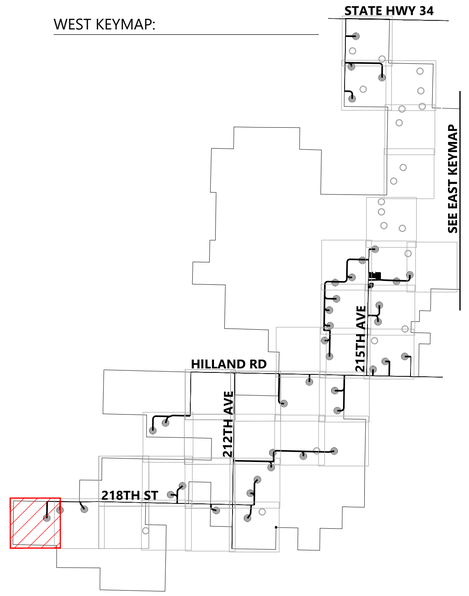
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REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

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Site Plan T-92

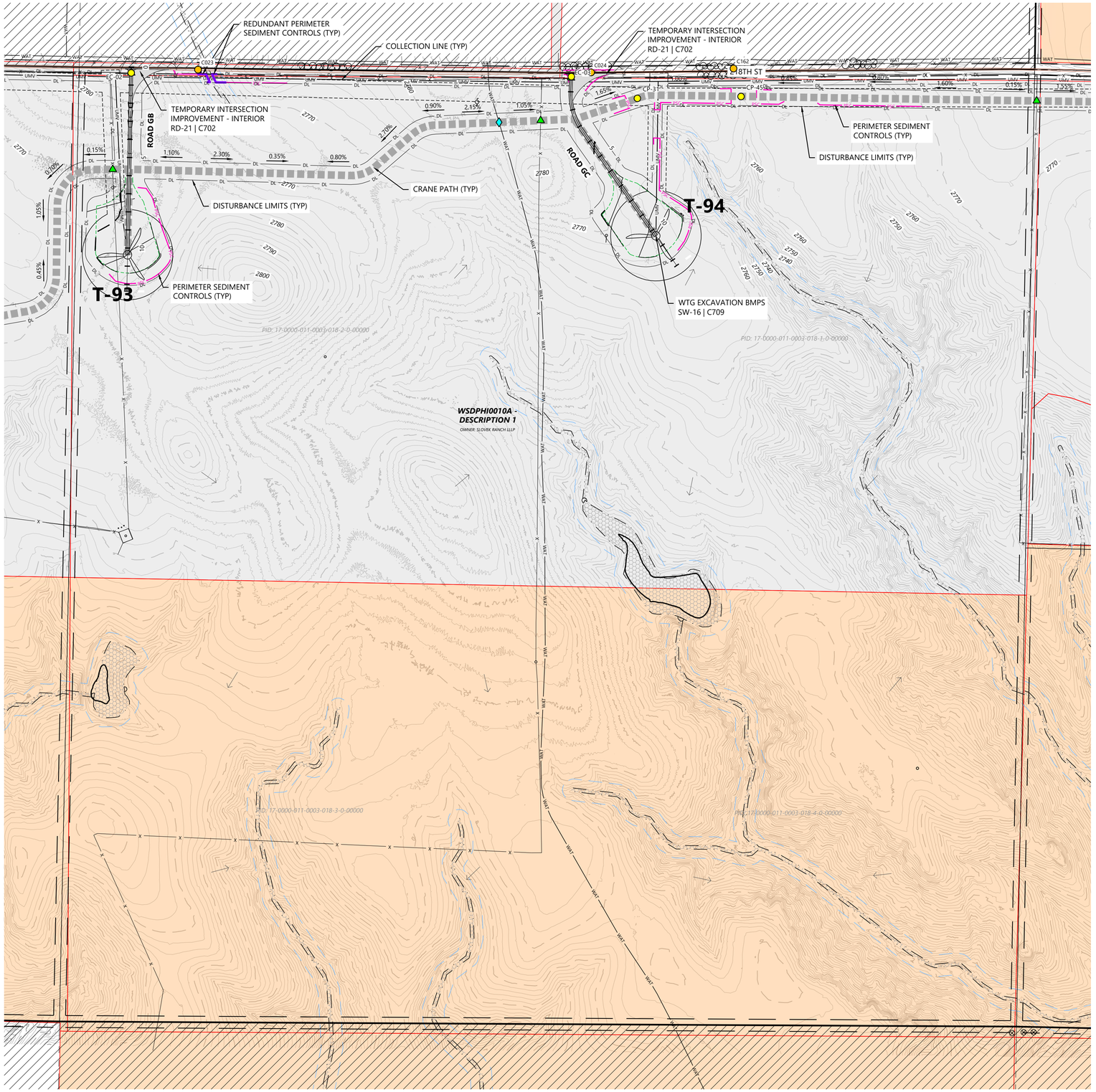
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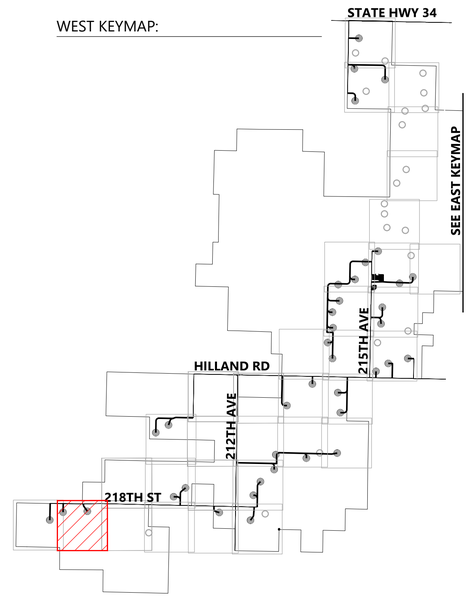
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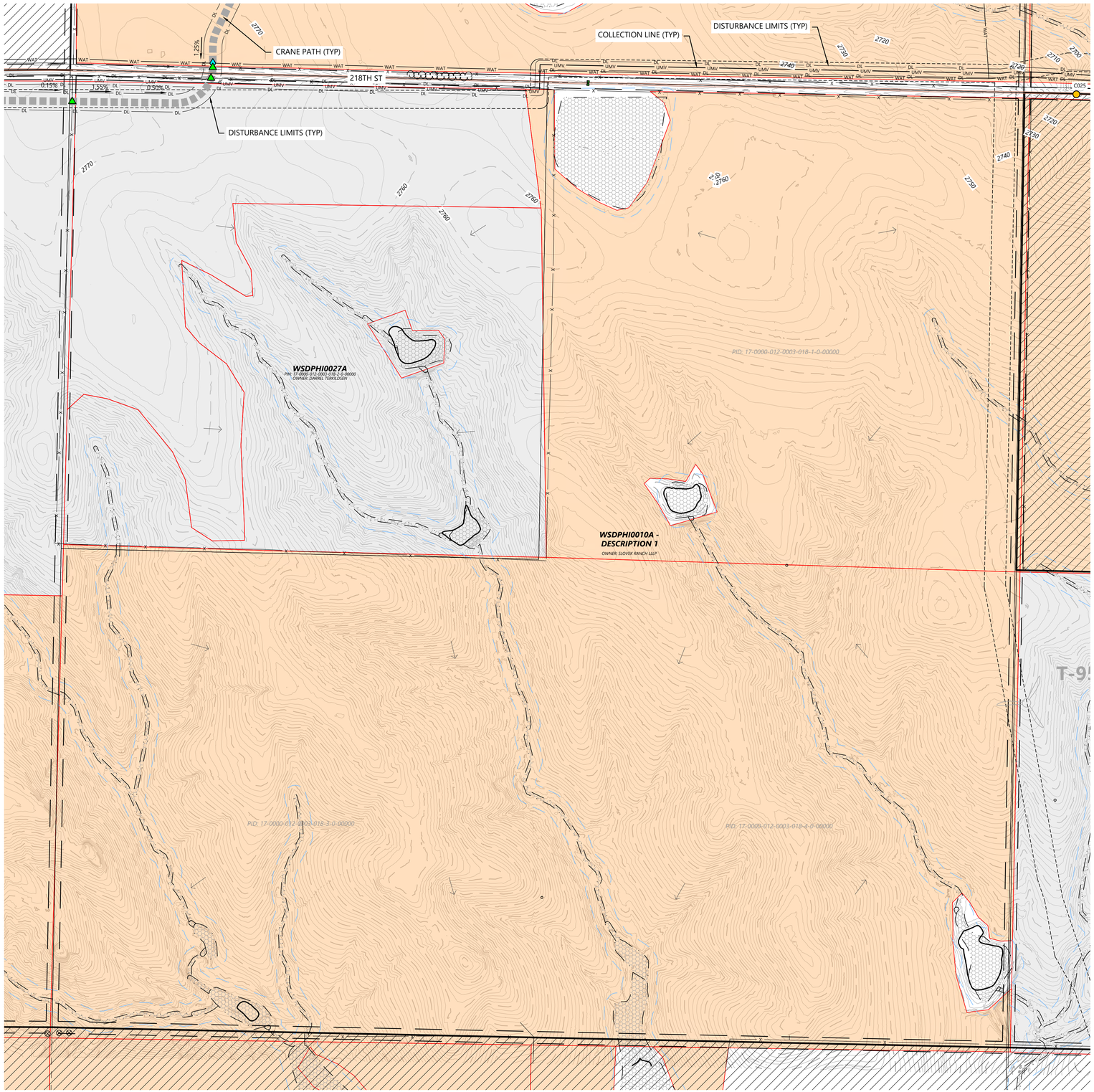
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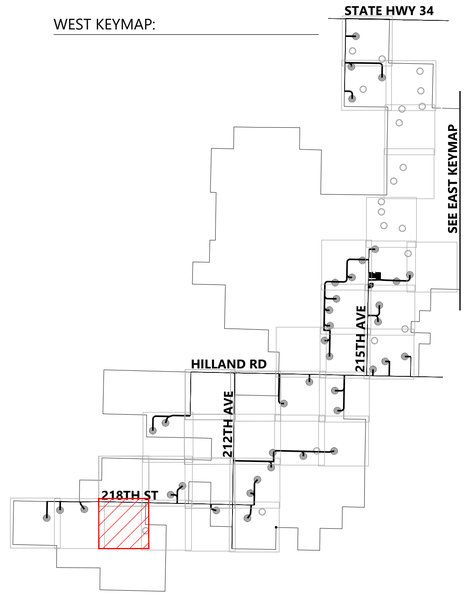
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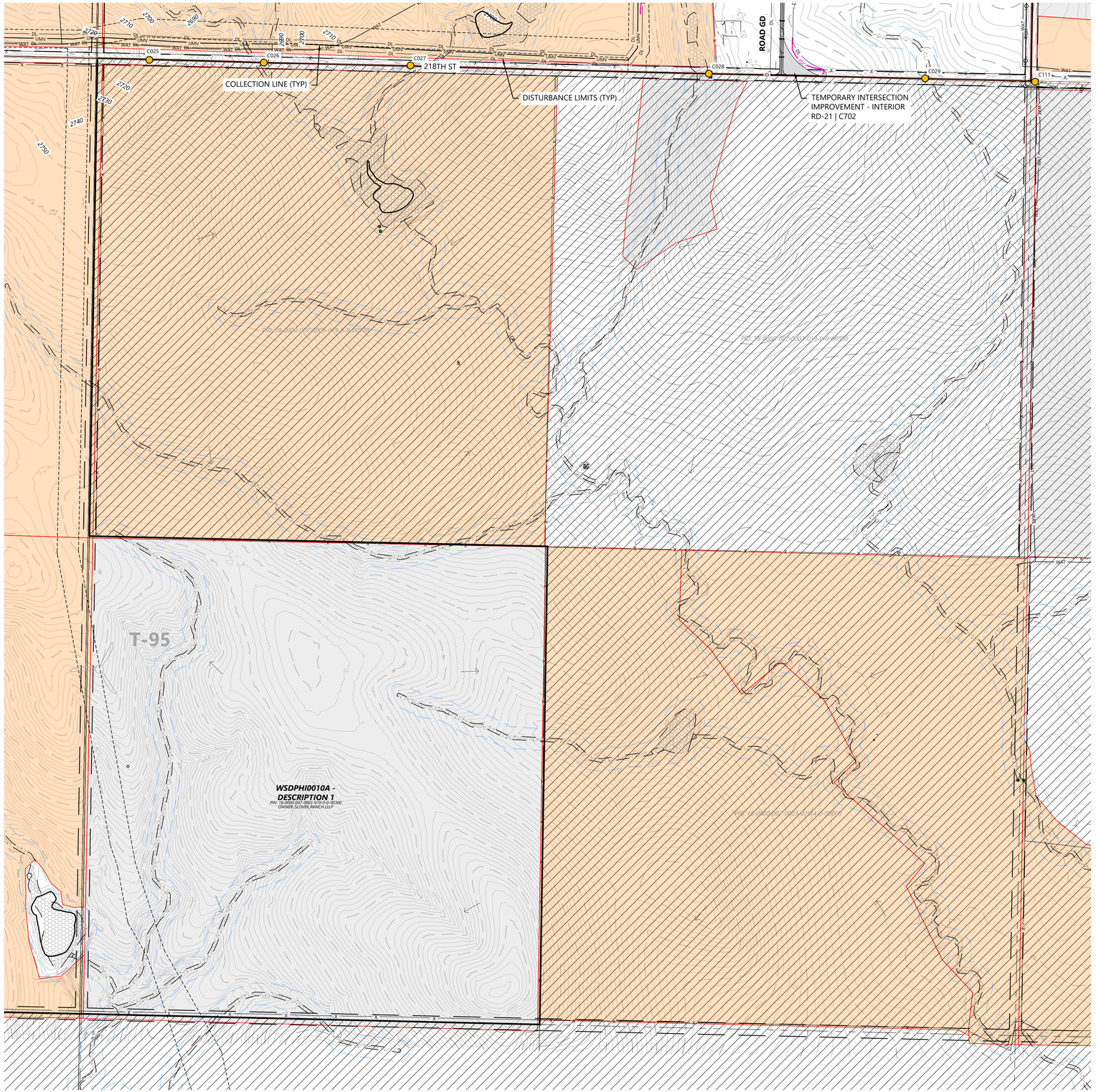
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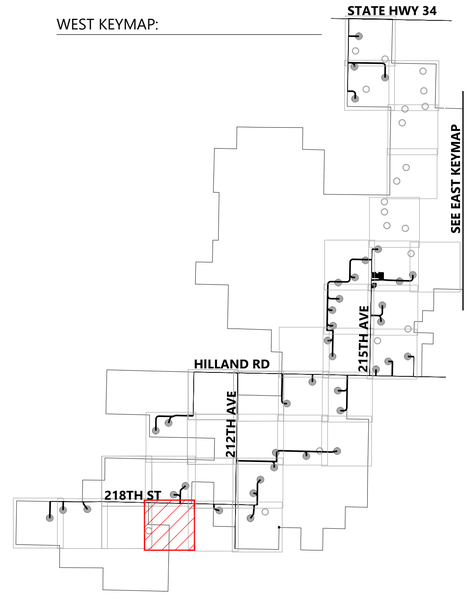
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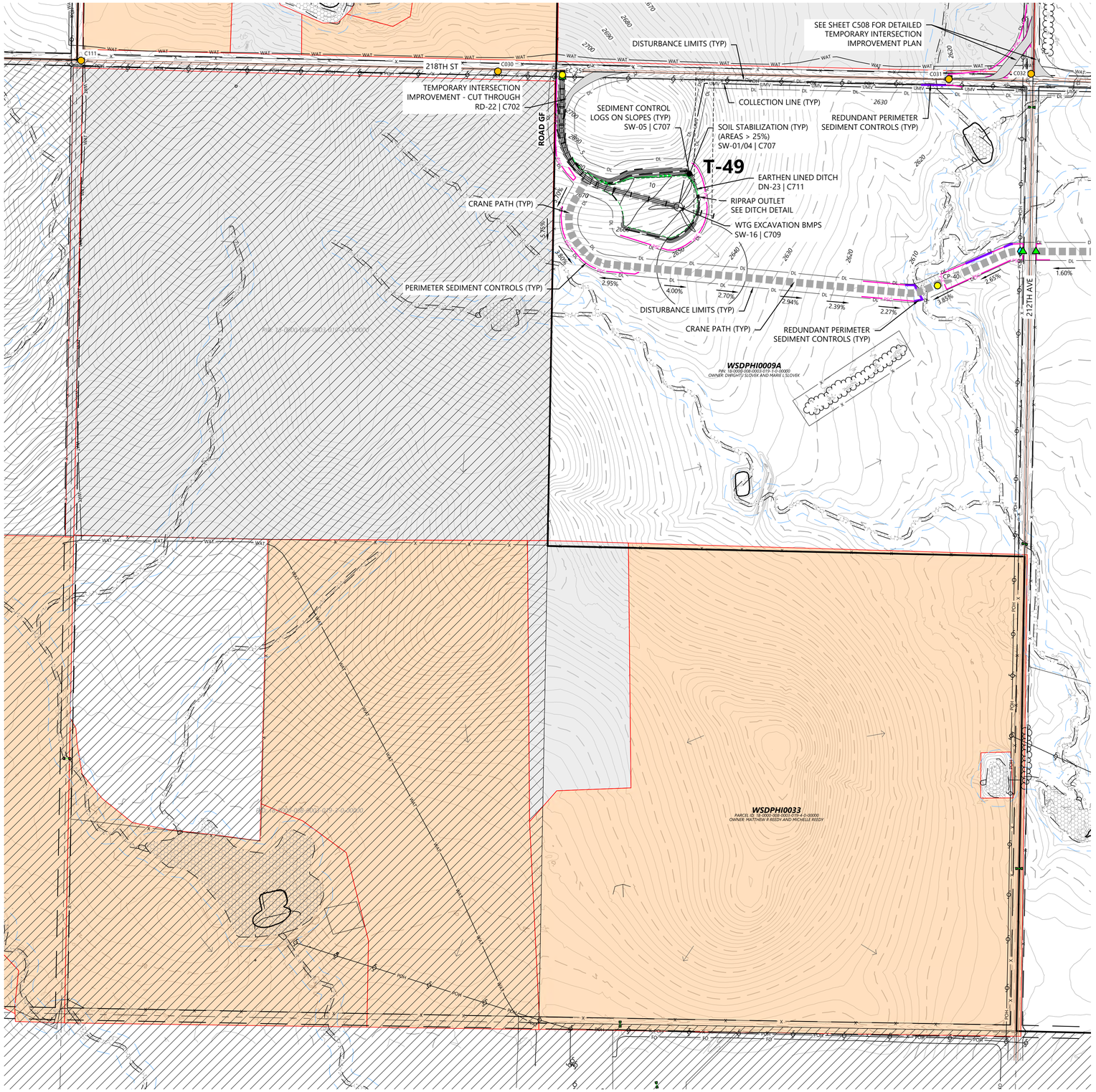
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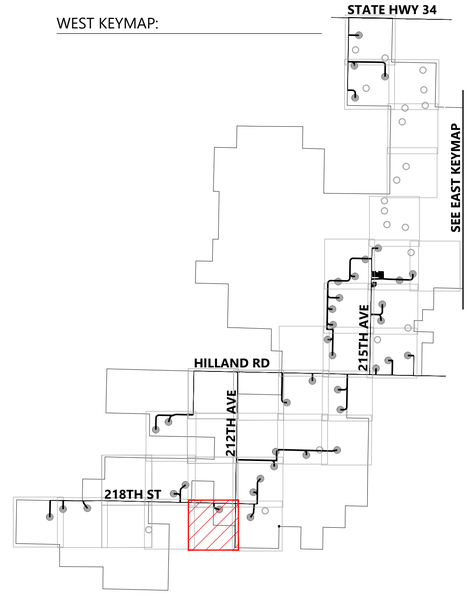
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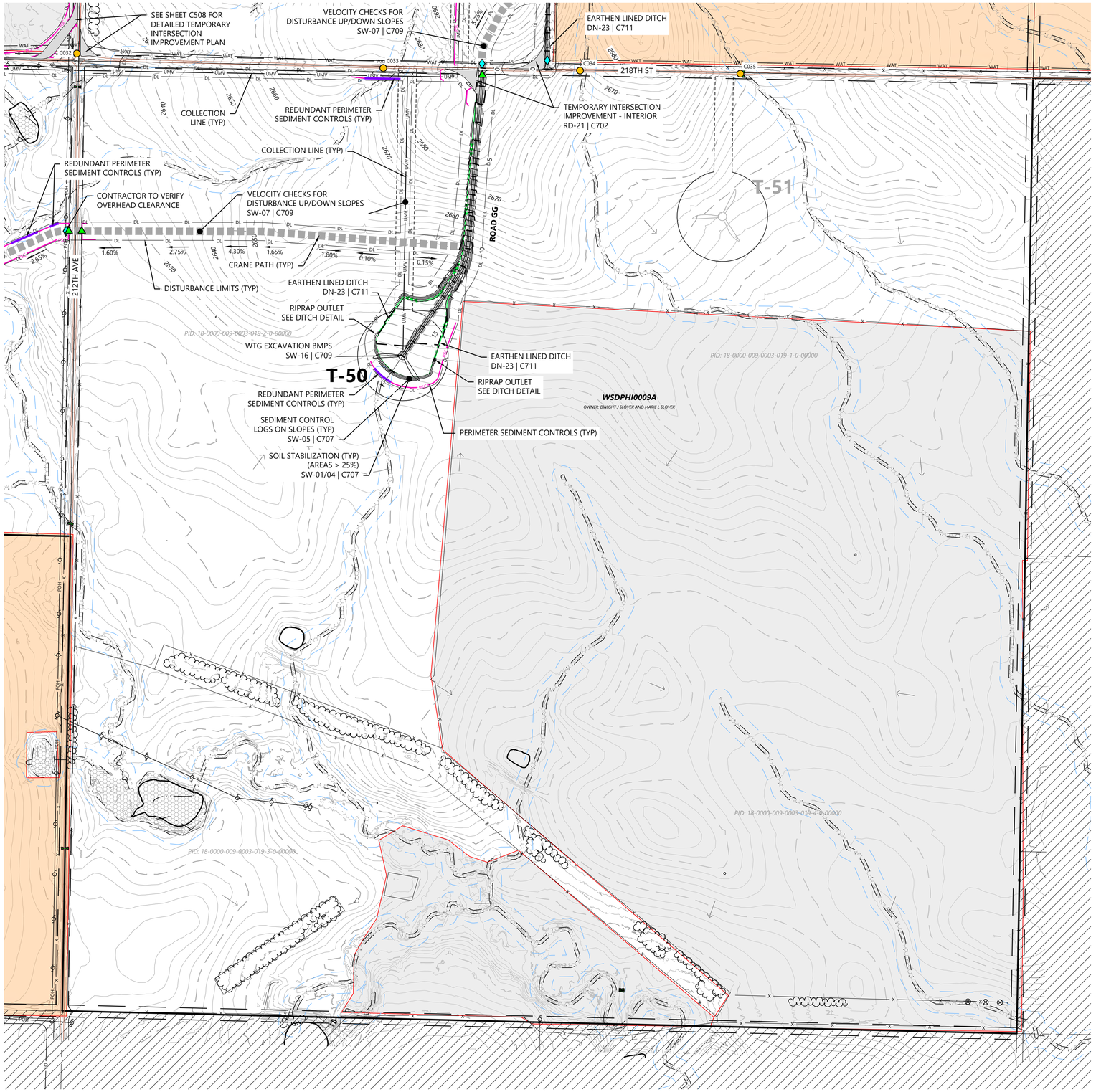
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- ALT. TURBINE LOCATION
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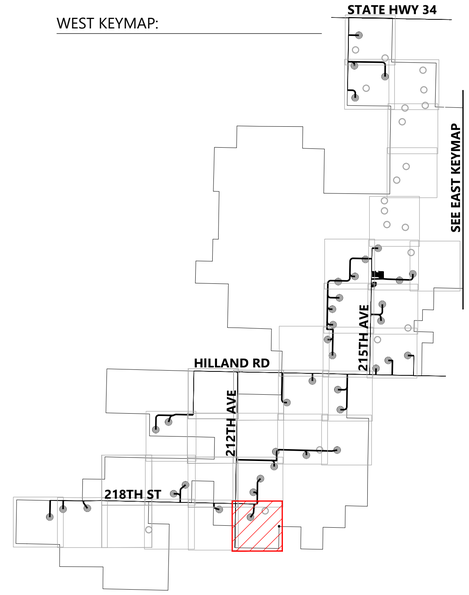
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WEST KEYMAP:



Westwood
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westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELCHER SOUTH DAKOTA 06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 300' 600' 900'

Philip Wind Project

Haakon County, South Dakota

Site Plan T-50 T-51

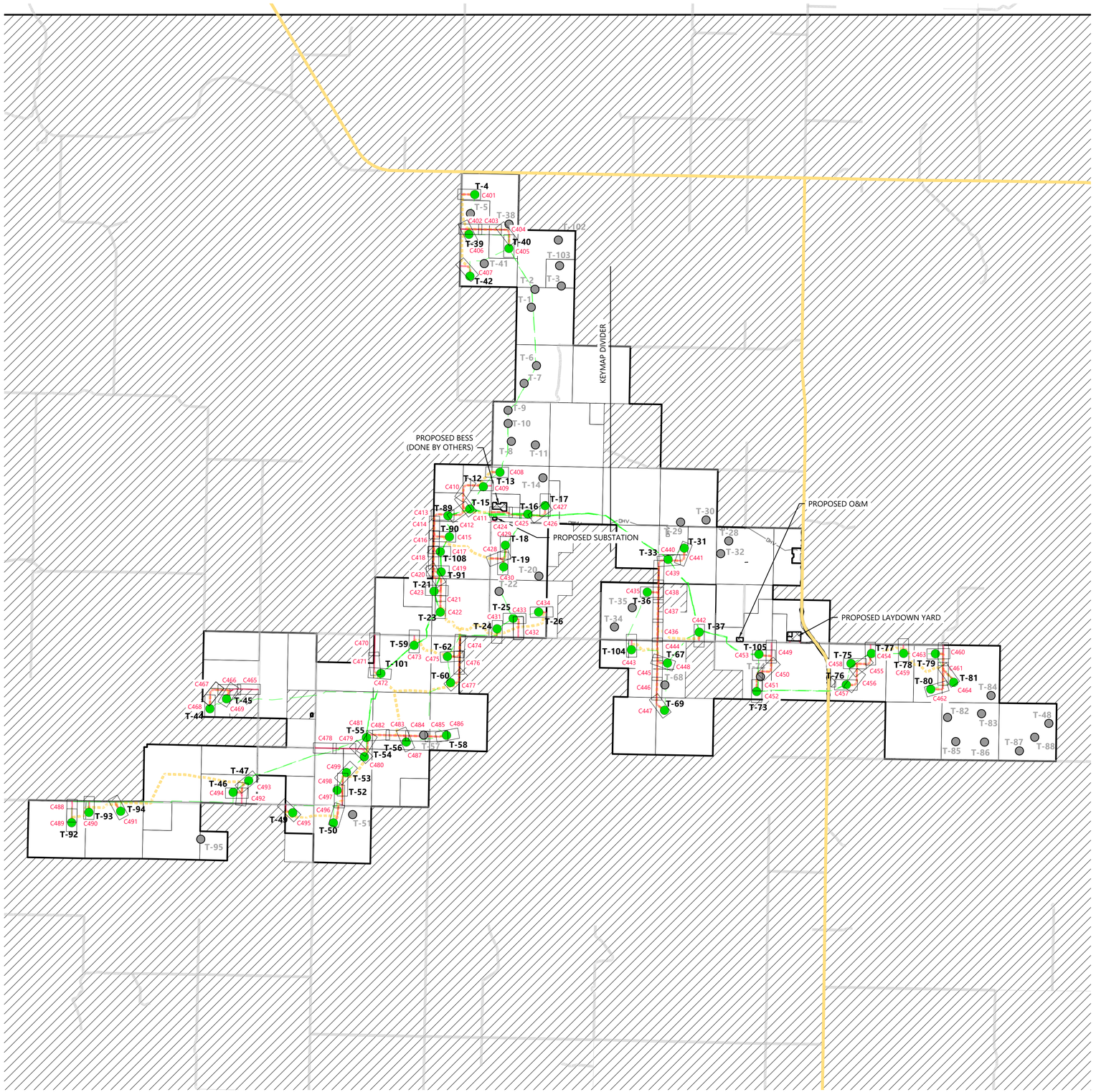
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C352

REV: B

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LEGEND:

EXISTING:

- NON-PARTICIPATING LAND
- POH — TRANSMISSION LINE
- GAS — GAS PIPELINE
- LOCAL ROAD
- HIGHWAY (STATE JURISDICTION)

PROPOSED:

- ## — TURBINE LOCATION
- ACCESS ROAD
- CRANE PATH
- UNDERGROUND COLLECTION
- OHV — OVERHEAD TRANSMISSION
- PROJECT FACILITIES

C447 — SHEET VIEWPORT AND NUMBER REFERENCE

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Plan and Profile Index

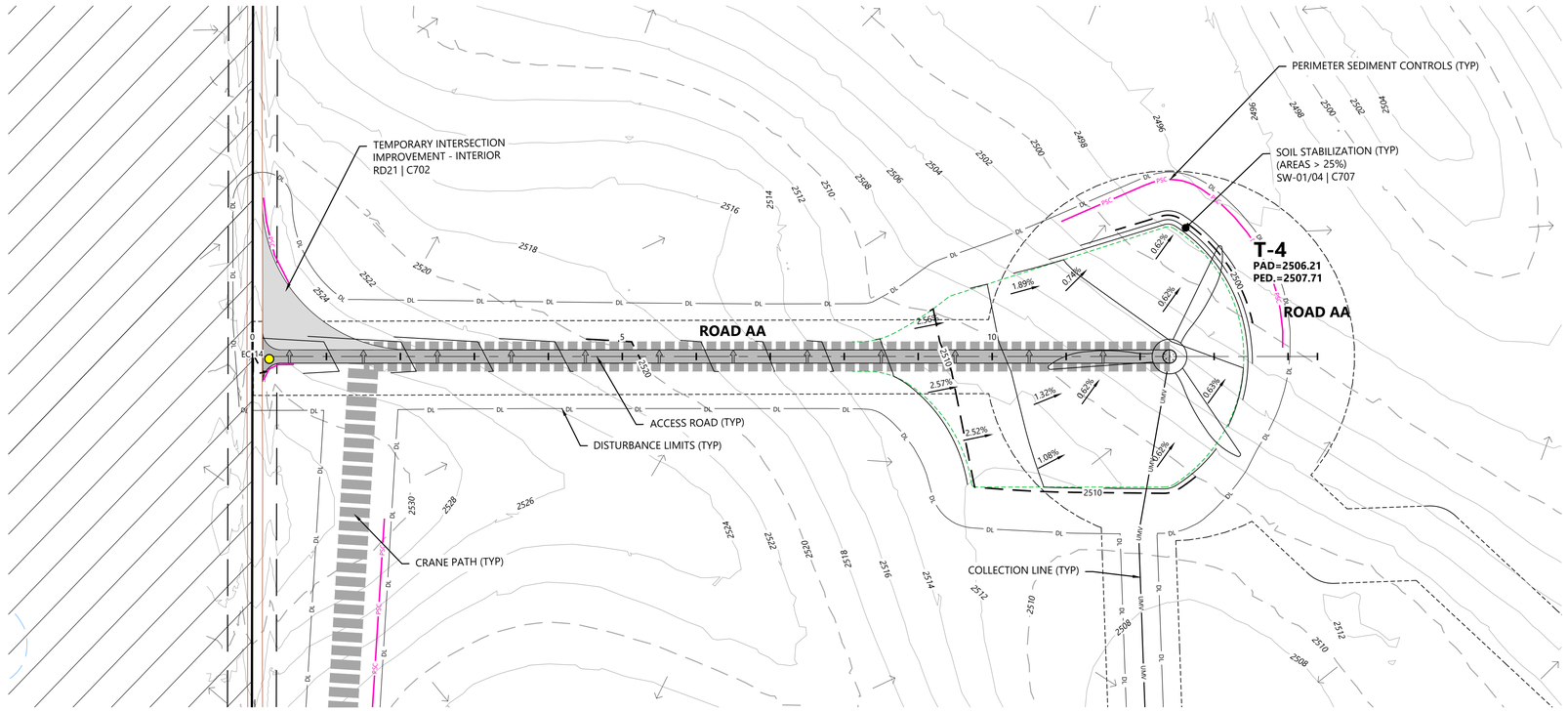
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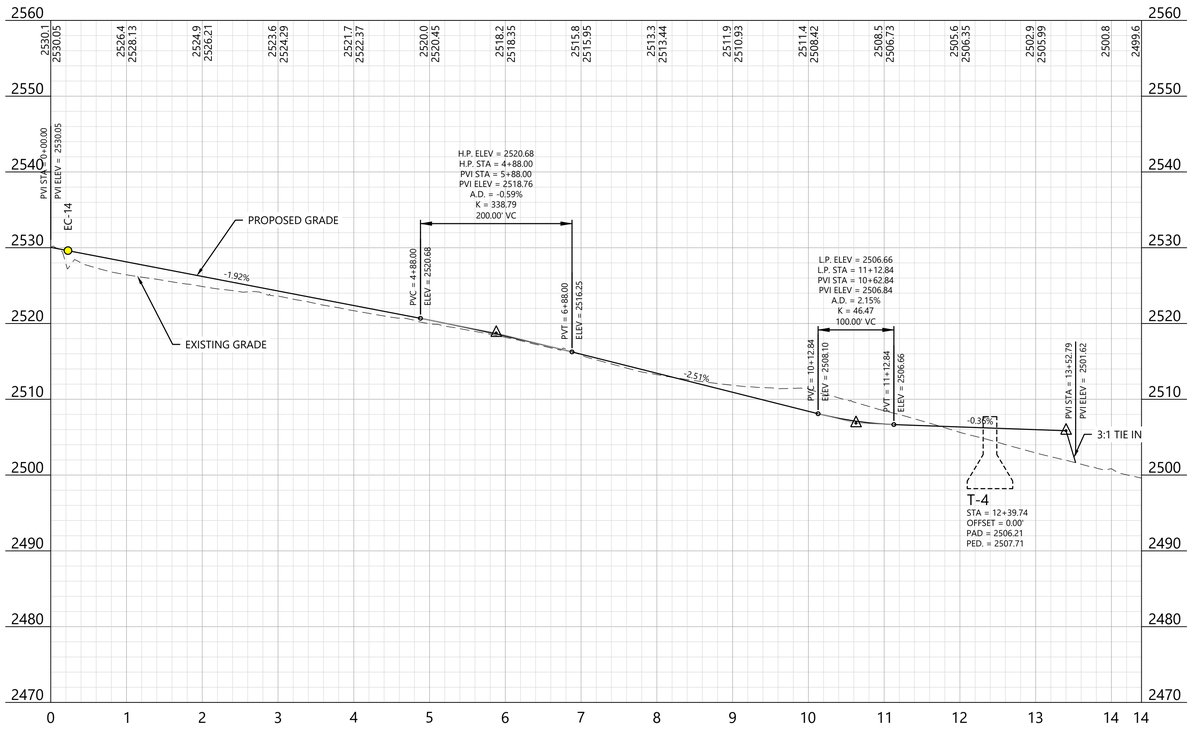
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EXISTING:

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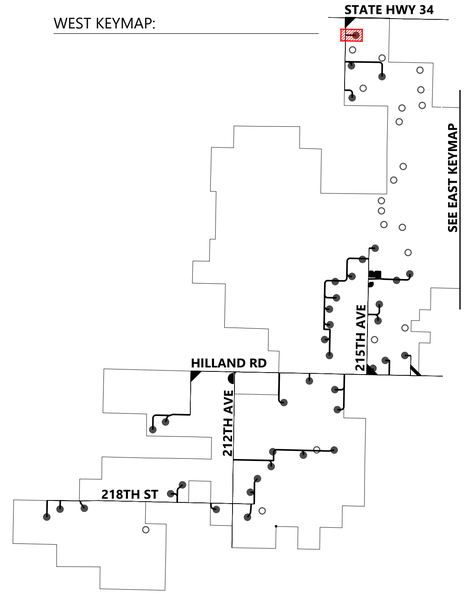
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Philip Wind Project

Haakon County, South Dakota

Road AA - Sta. 0+00.00 to End T-4

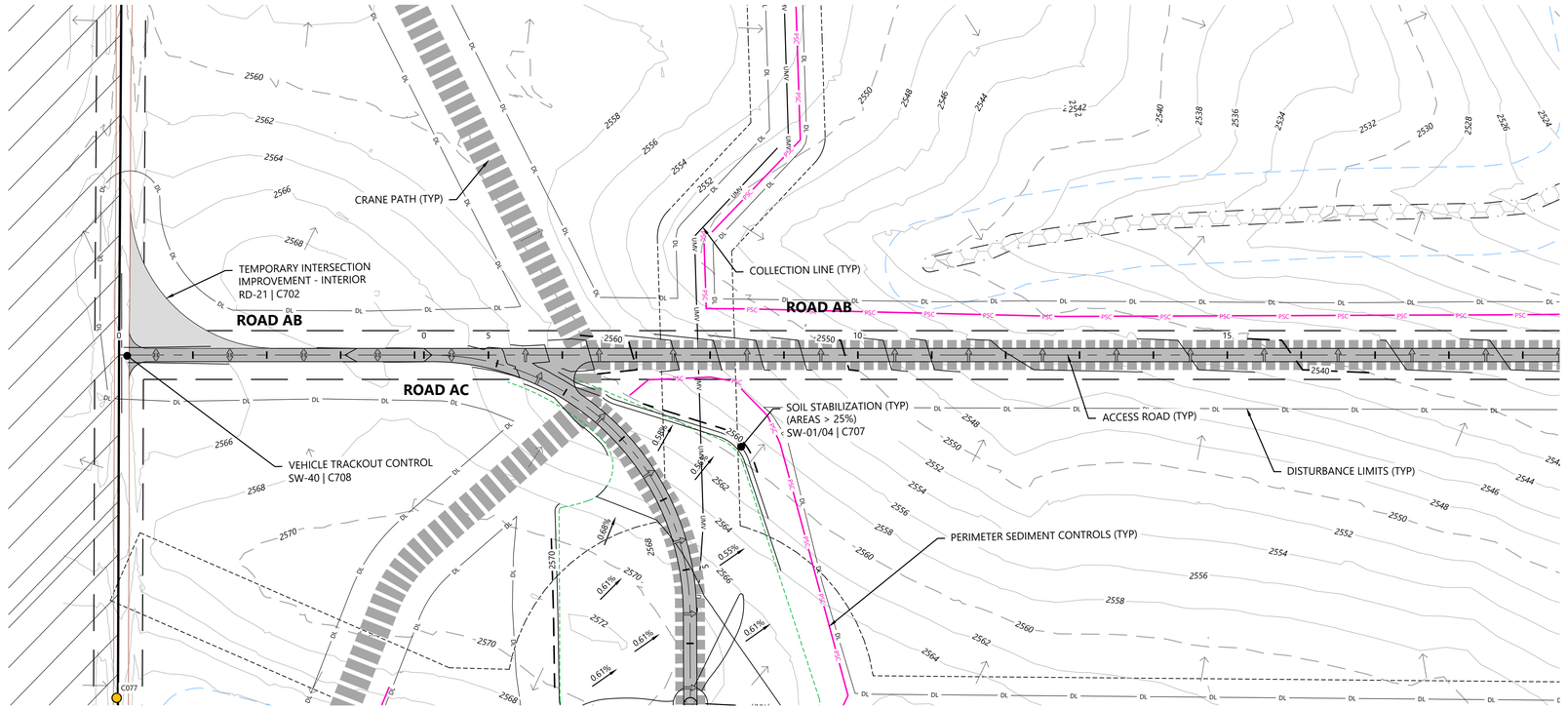
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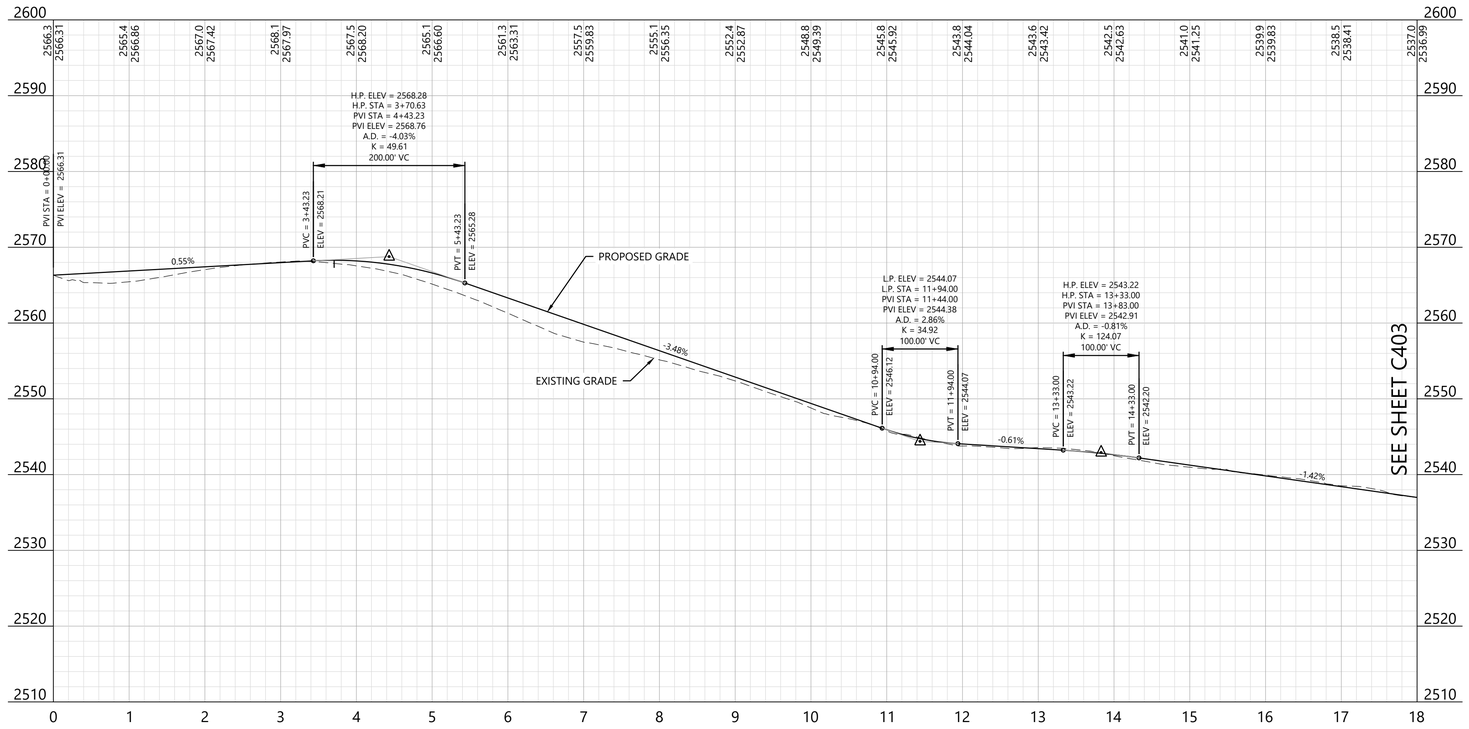
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REV: B

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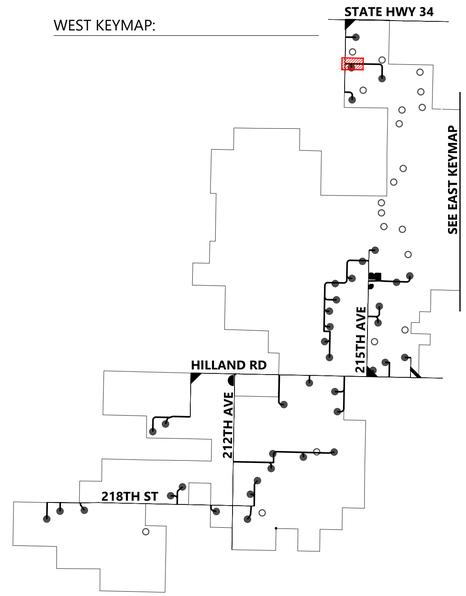
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SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
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392 County Road 50
Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

Road AB - Sta. 0+00.00 to 18+00.00

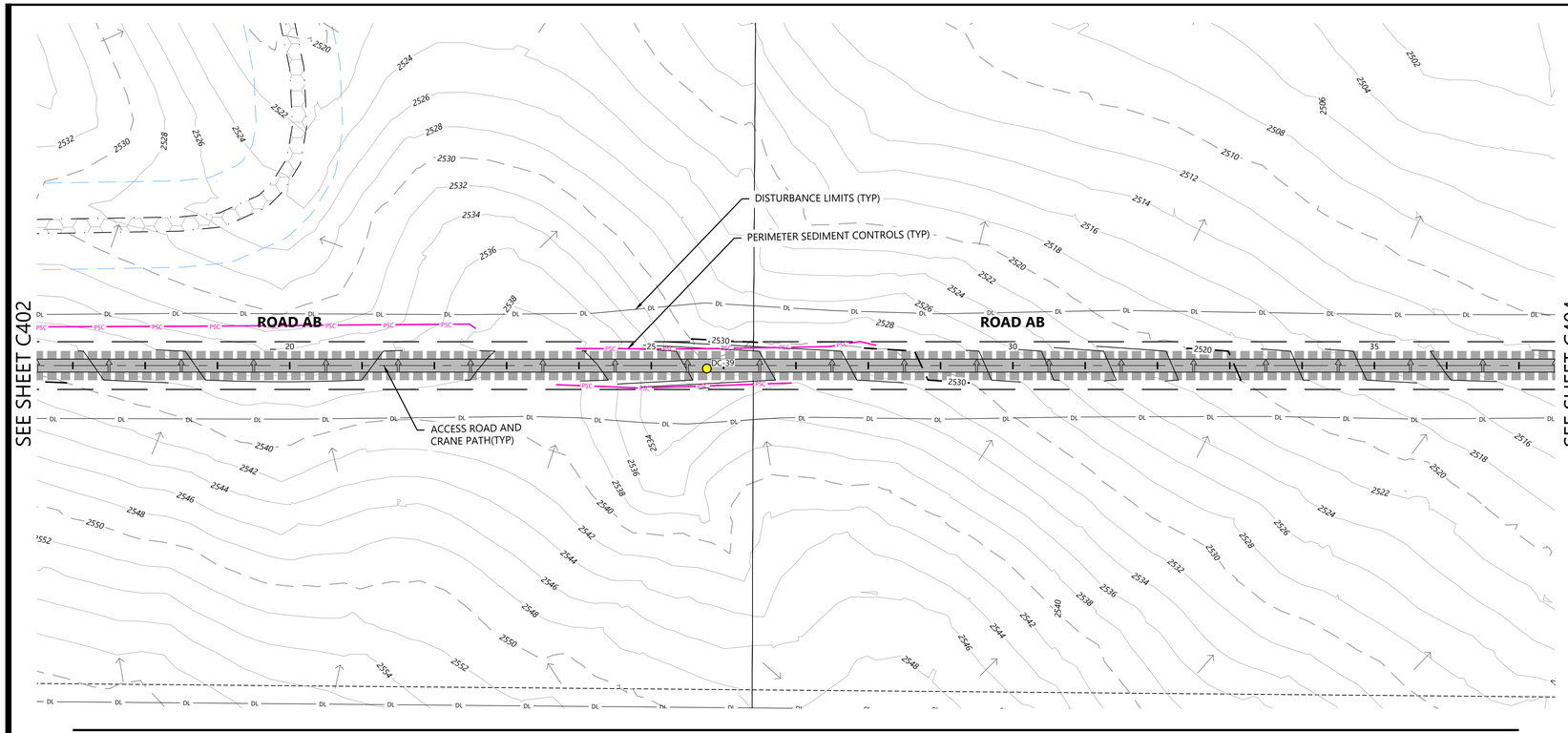
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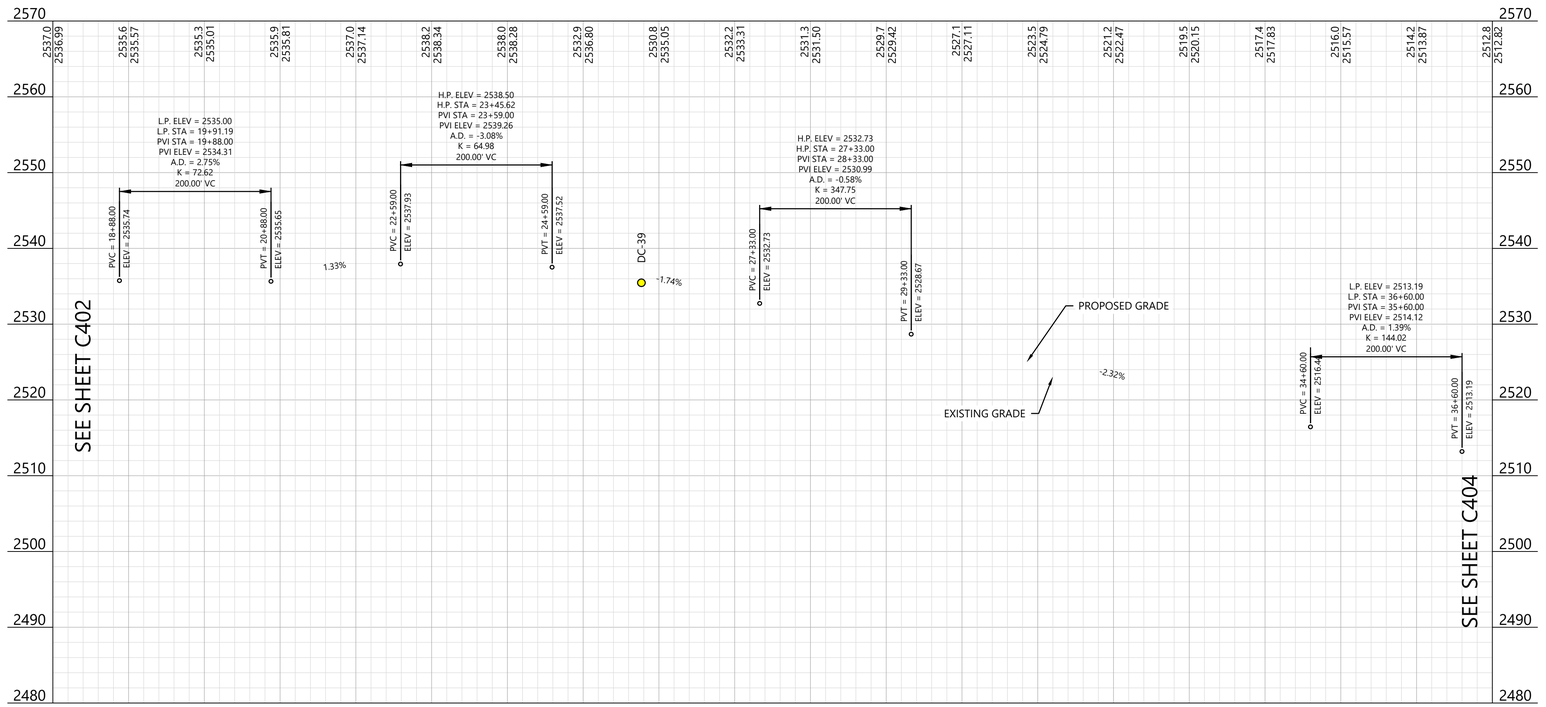
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SHEET: C402

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LEGEND:

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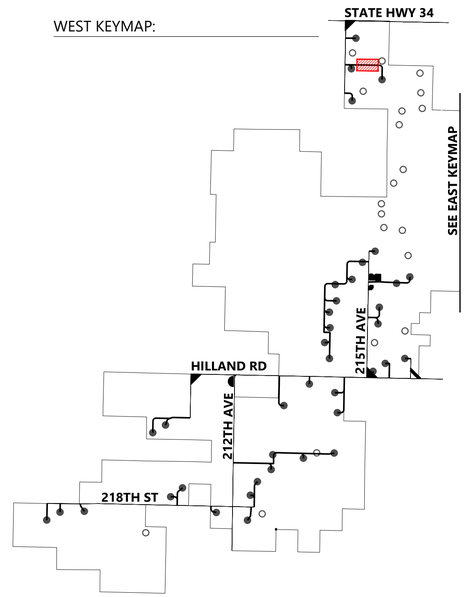
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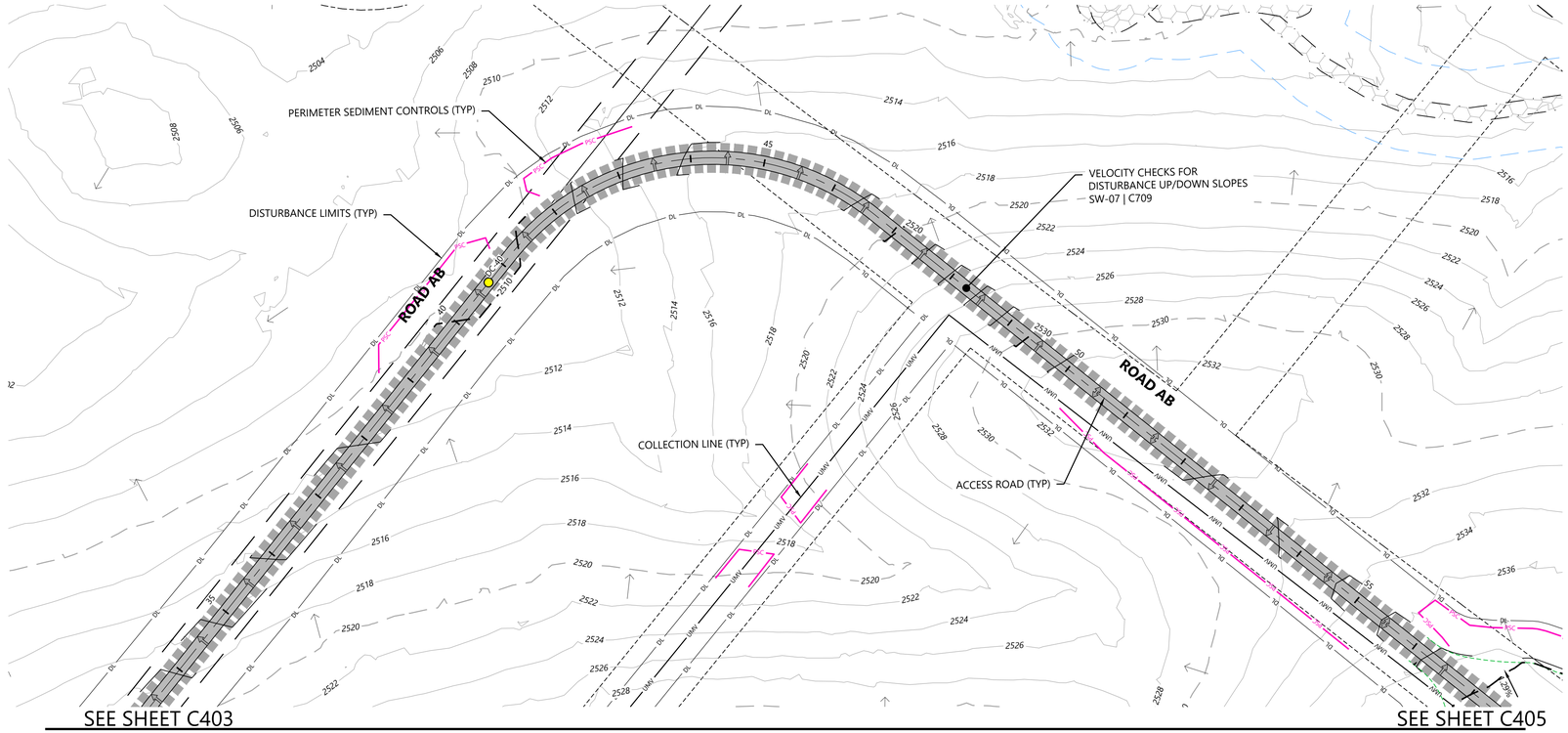
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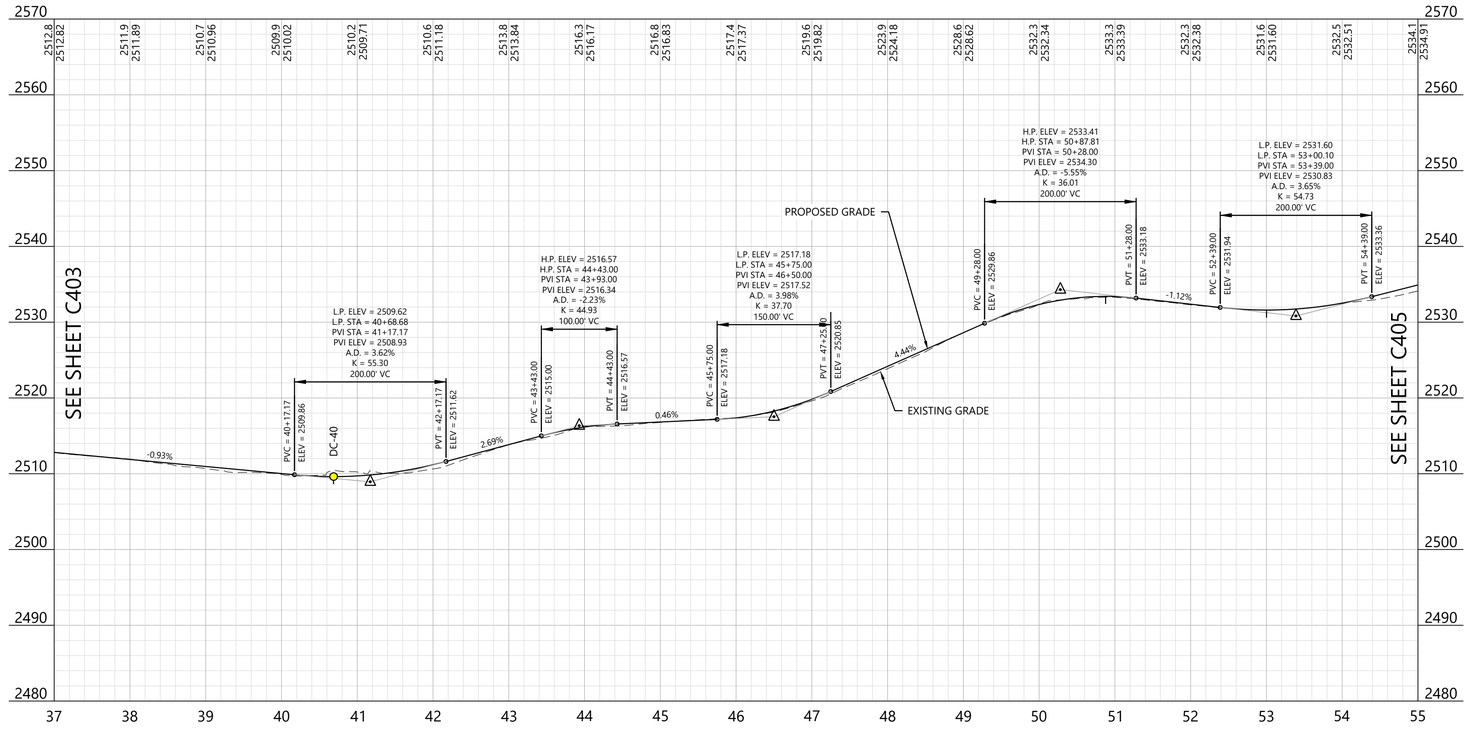
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REV: B

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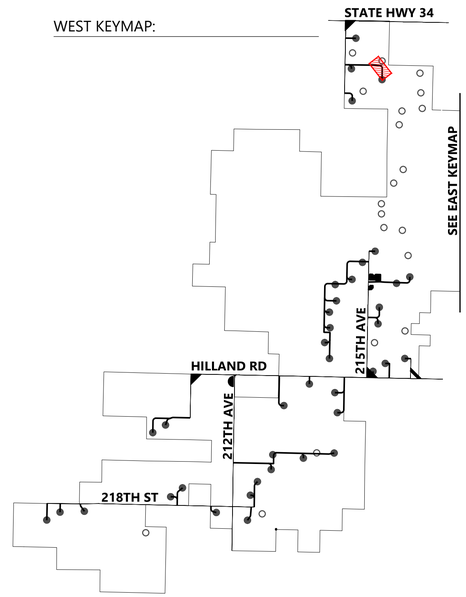
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   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

WEST KEYMAP:



Westwood

Phone (281) 883-0103
Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELFORD
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road AB - Sta. 37+00.00 to 55+00.00

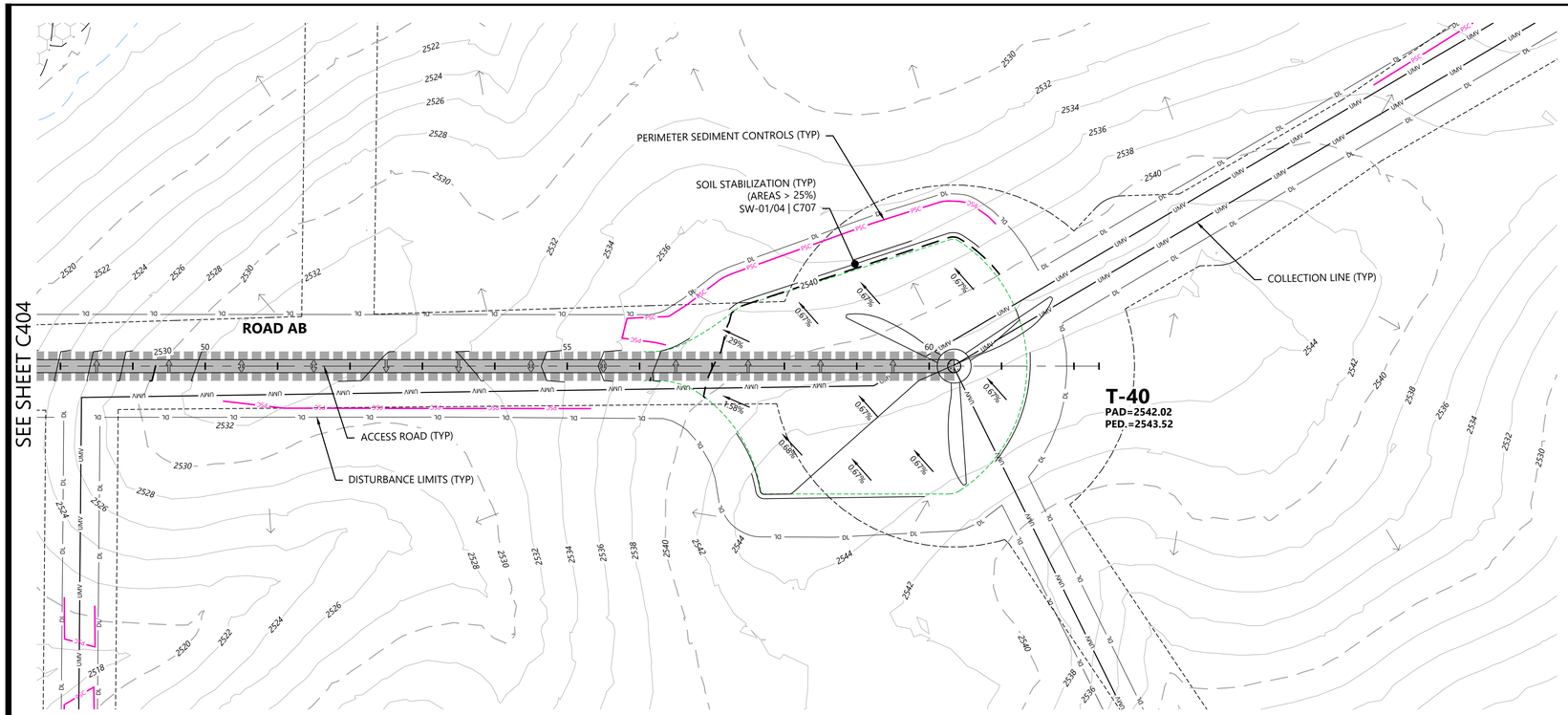
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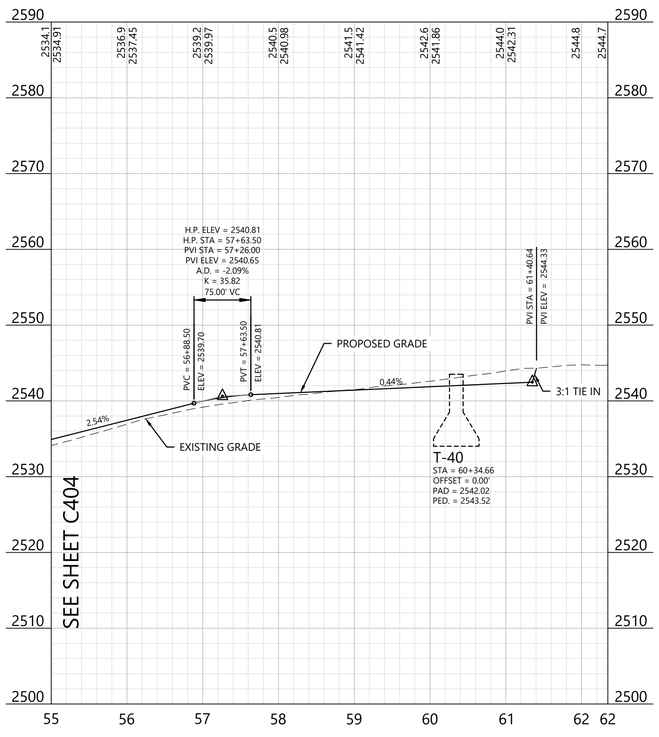
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SHEET: C404

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
- WATERCOURSE LINE (DELINEATED)
- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
- ENVIRONMENTALLY SENSITIVE AREA - AVOID
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PROPOSED:

- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
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- OVERHEAD TRANSMISSION
- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
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- DITCH
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- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

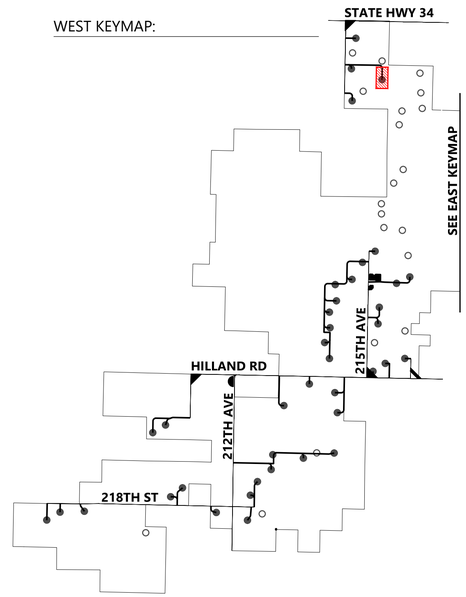
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Philip Wind Project

Haakon County, South Dakota

Road AB - Sta. 55+00.00 to End T-40

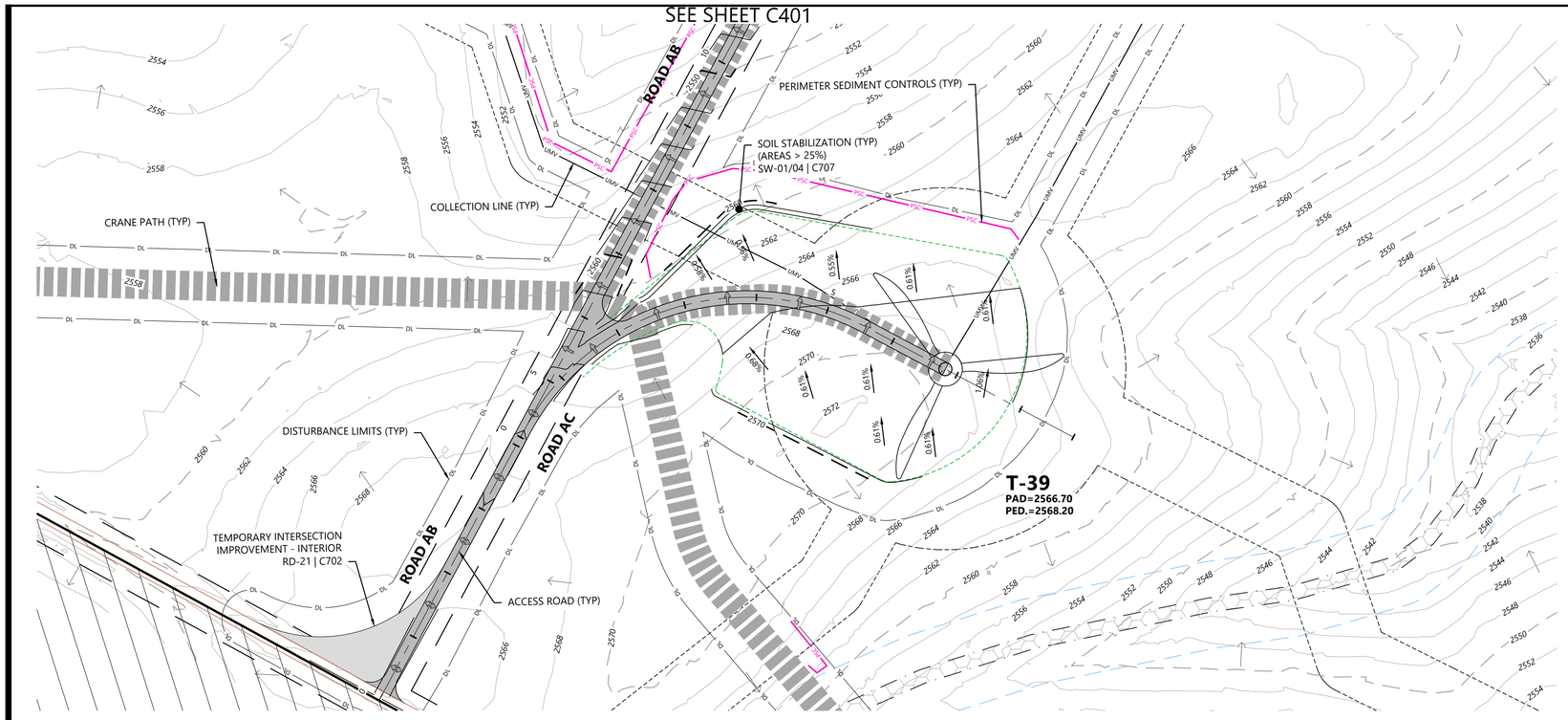
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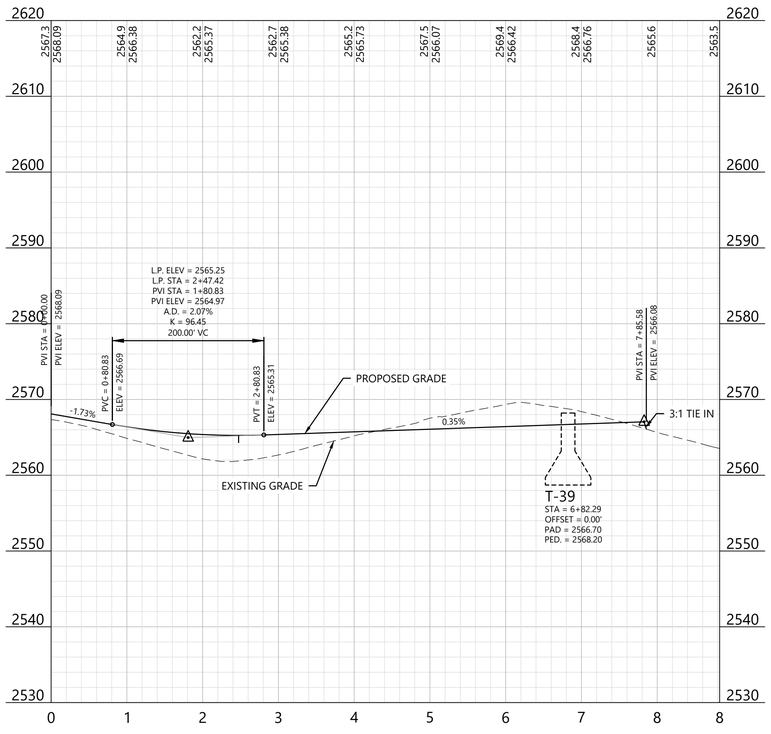
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SHEET: C405

REV: B

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LEGEND:

EXISTING:

- PERIMETER SEDIMENT CONTROLS (TYP) LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
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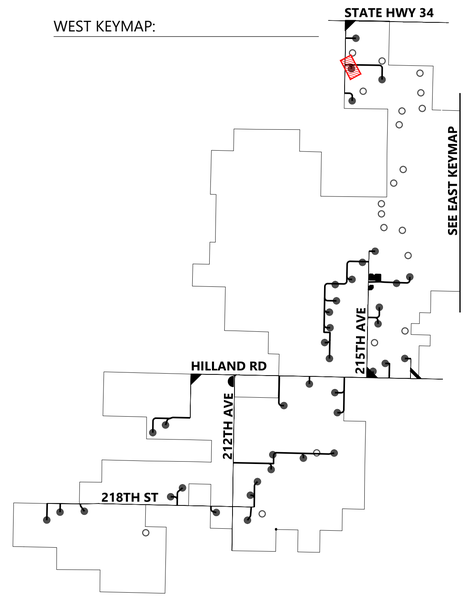
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DAVID KELESHIAN
NORTH DAKOTA
06/17/26

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Avon, MN 56310

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road AC - Sta. 0+00.00 to End T-39

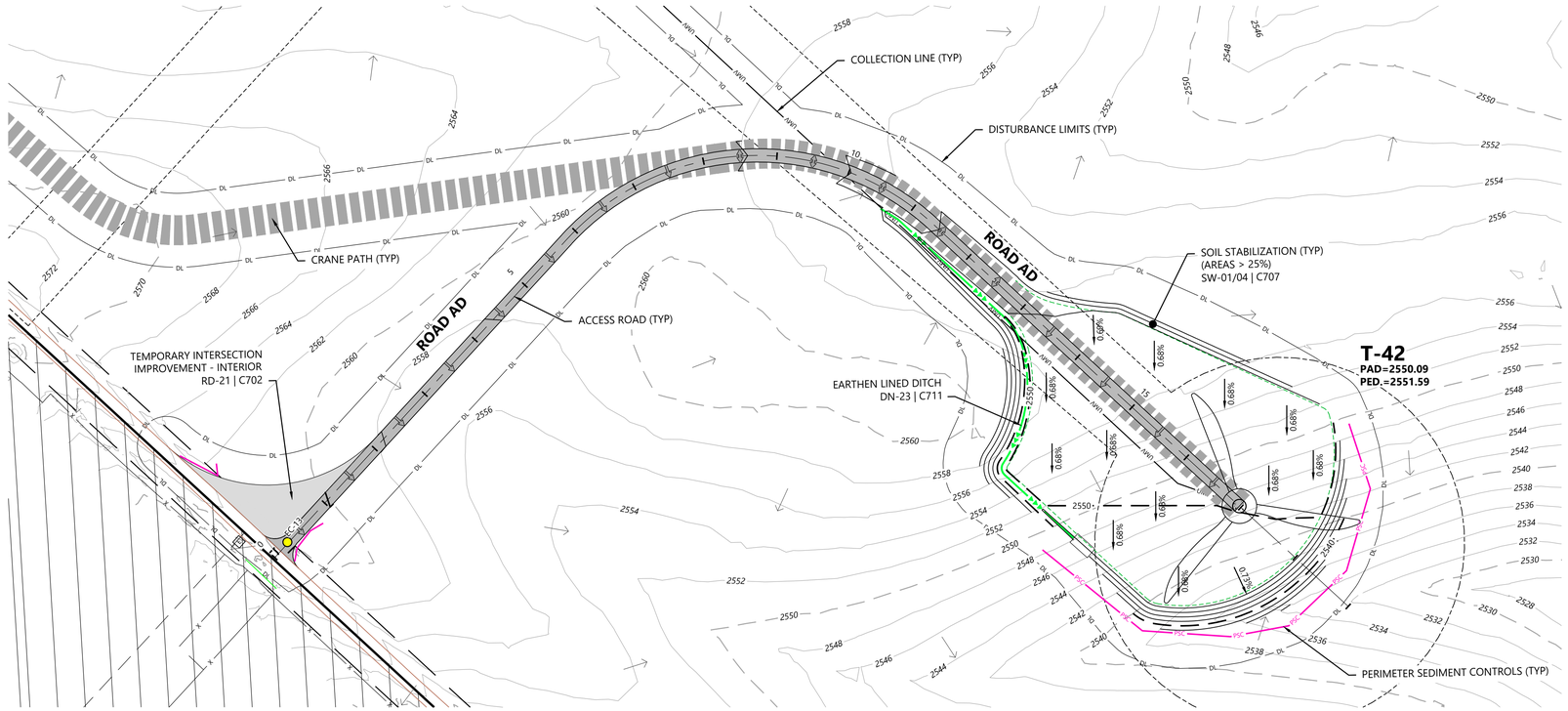
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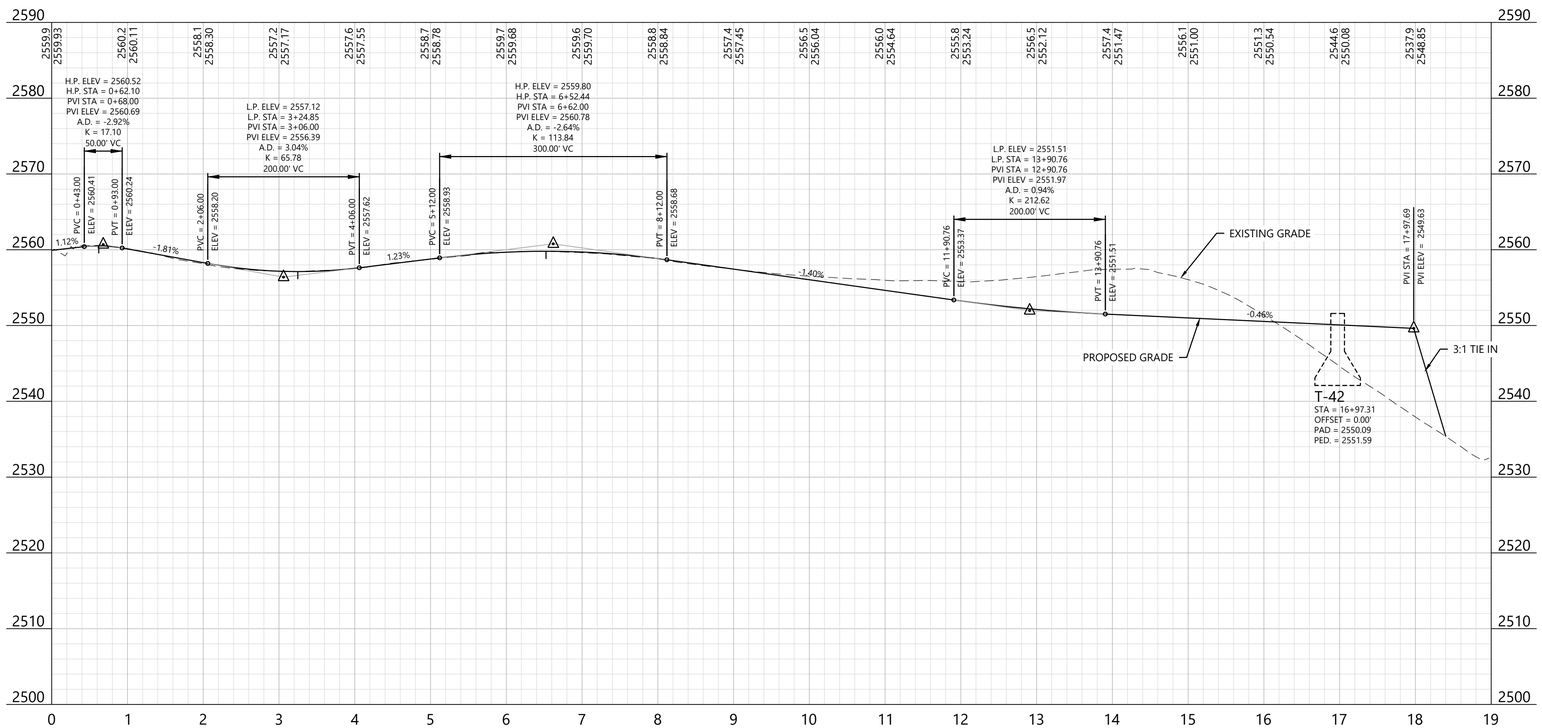
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SHEET: C406

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
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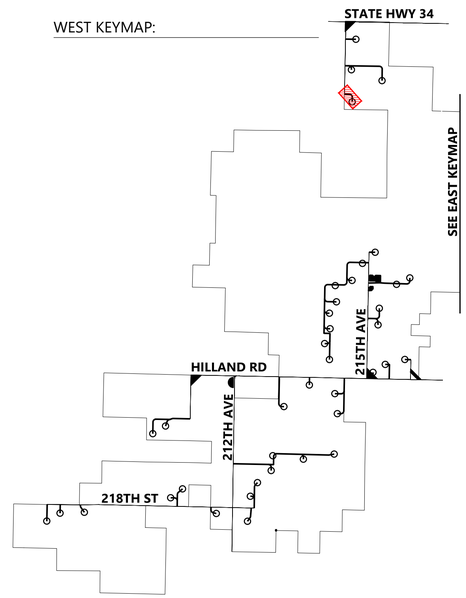
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Philip Wind Project

Haakon County, South Dakota

Road AD - Sta. 0+00.00 to End T-42

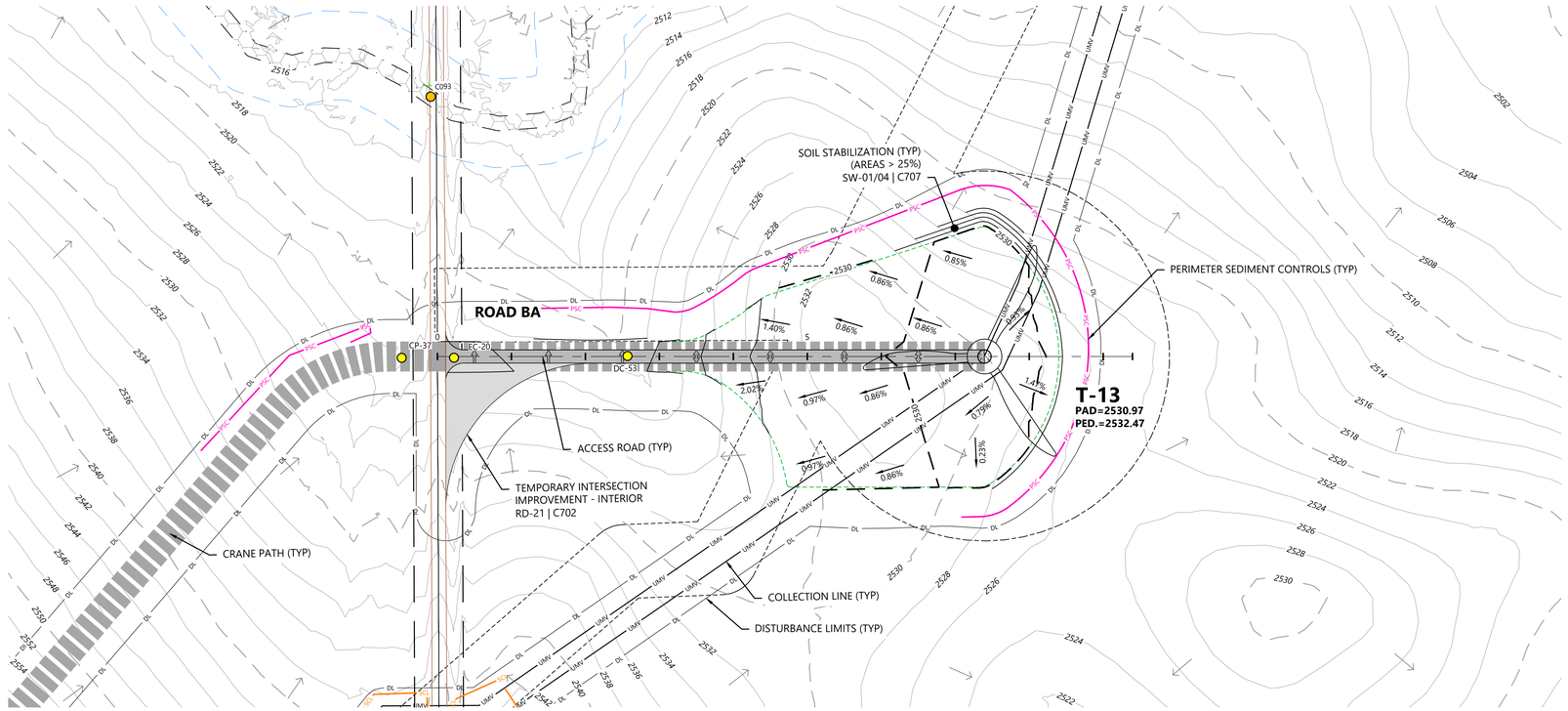
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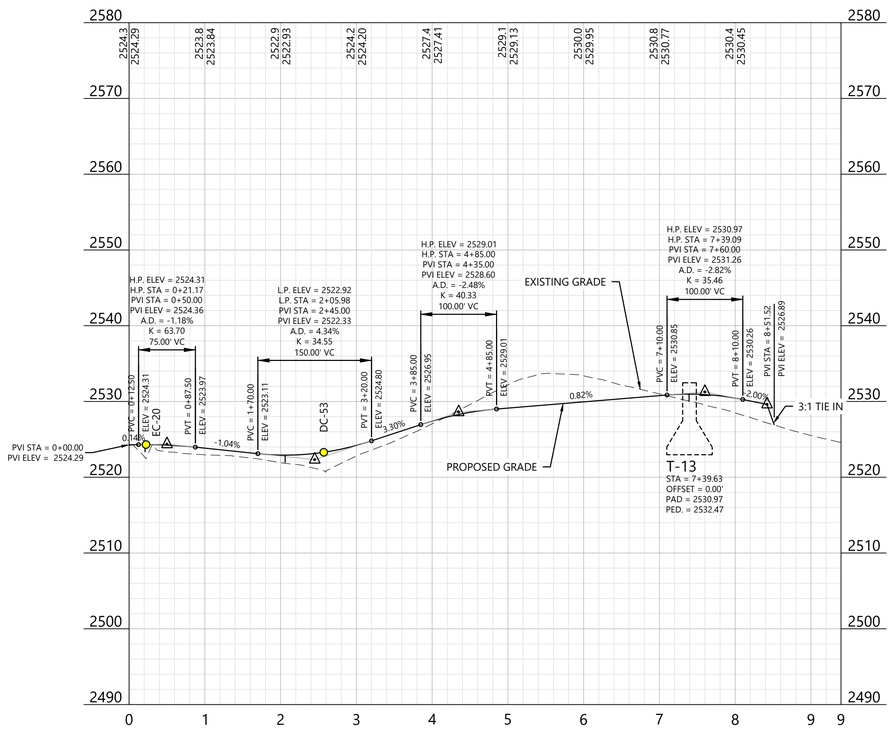
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SHEET: C407

REV: B

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LEGEND:

EXISTING:

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- SURVEY CORRIDOR
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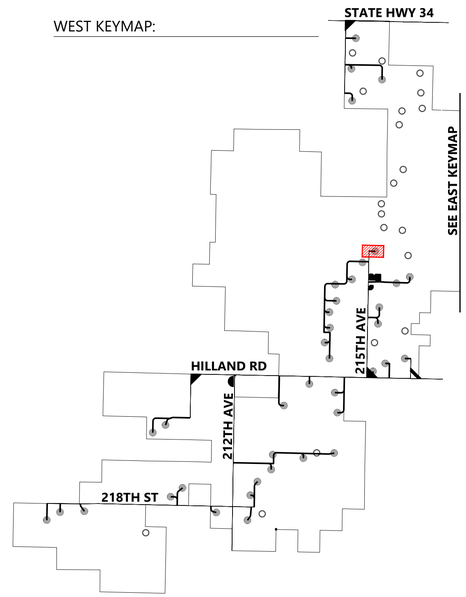
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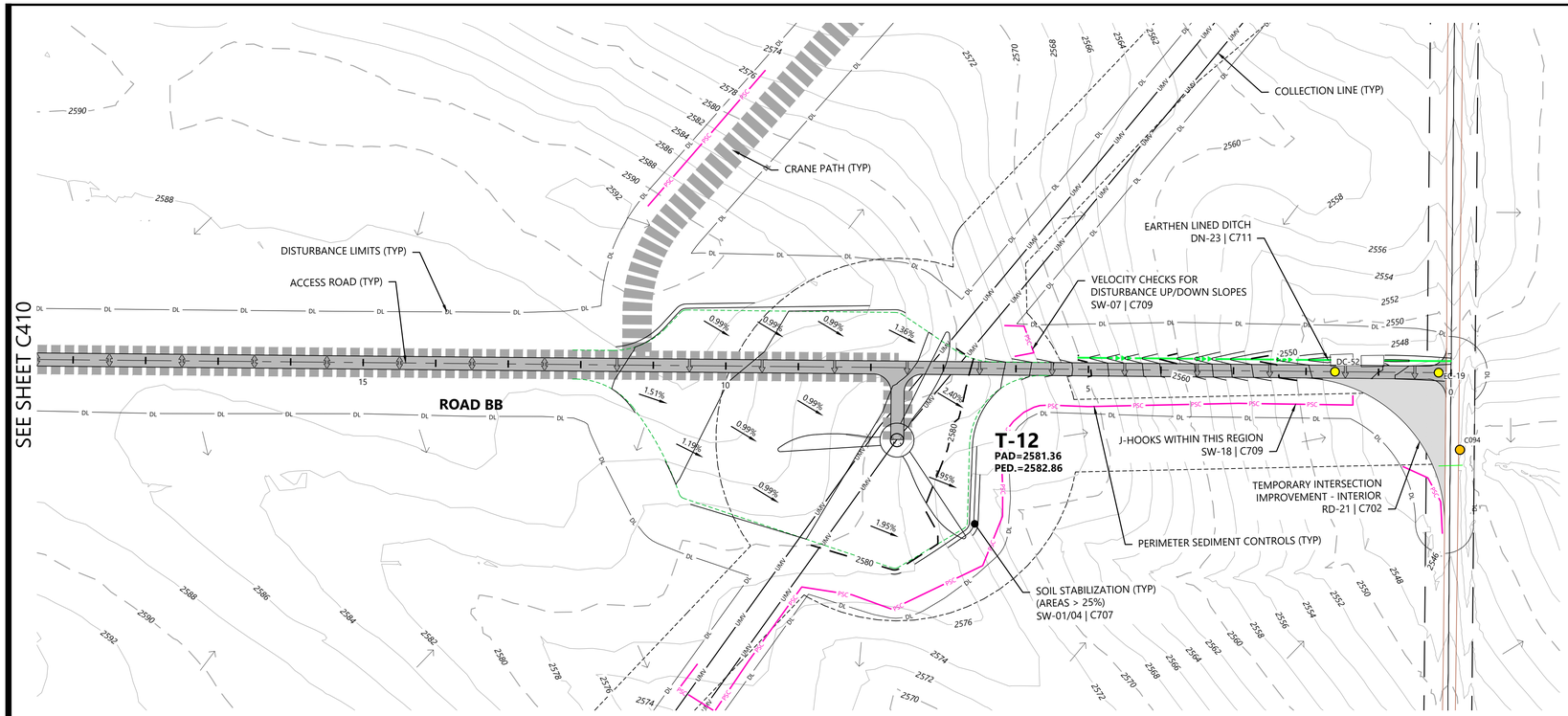
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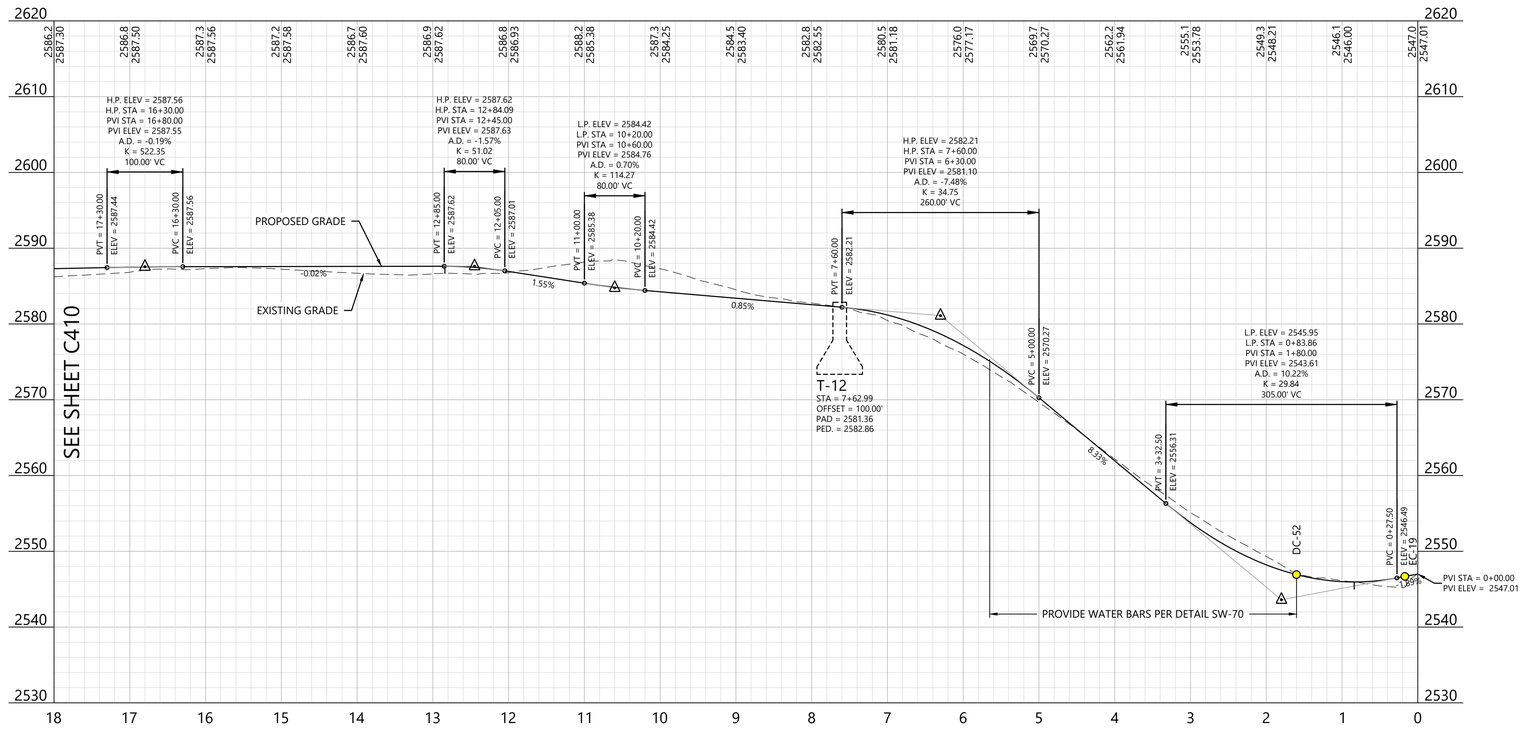
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SHEET: C408

REV: B

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LEGEND:

EXISTING:

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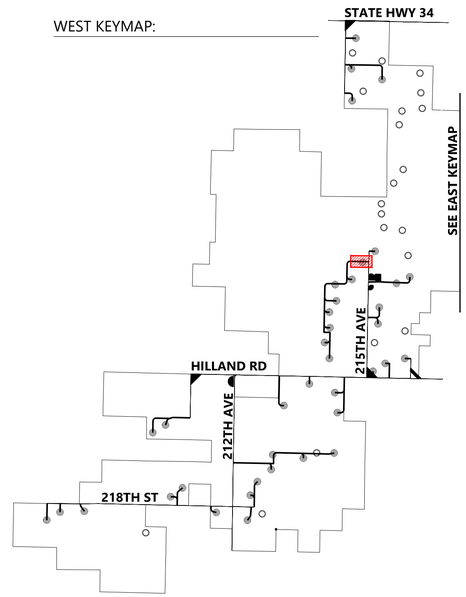
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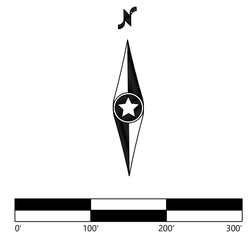
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06/17/26

PREPARED FOR:

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Philip Wind Project

Haakon County, South Dakota

Road BB - Sta. 0+00.00 to 18+00.00 T-12

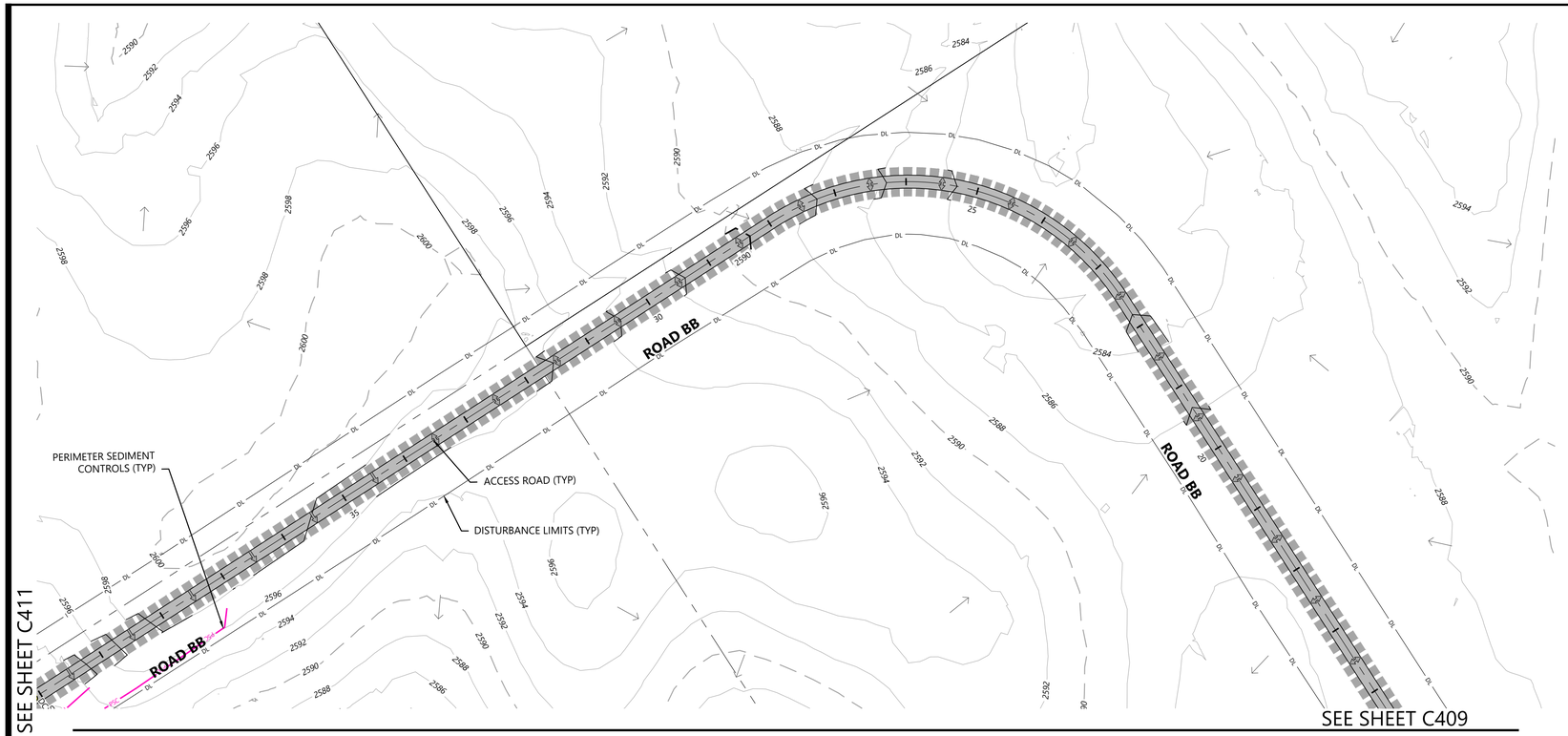
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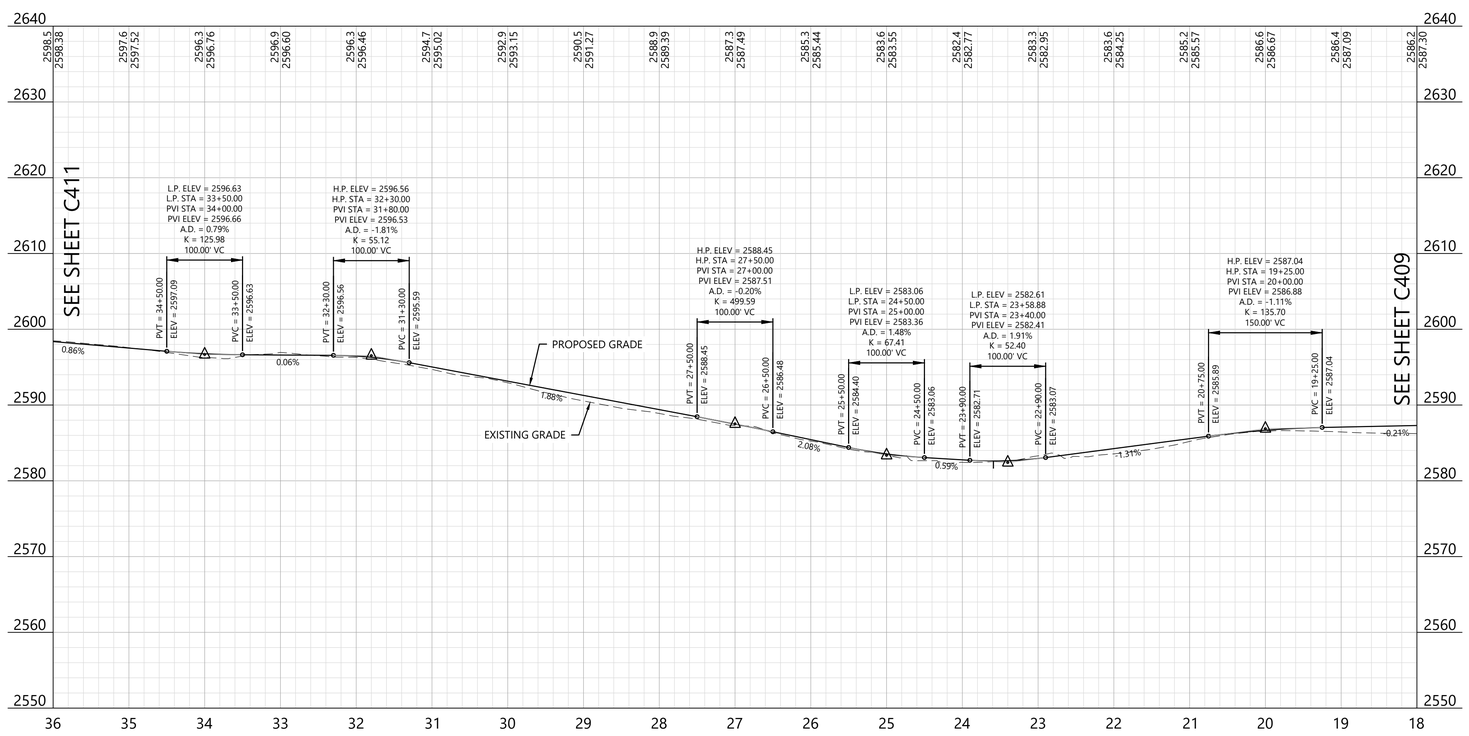
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SHEET: C409

REV: B

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LEGEND:

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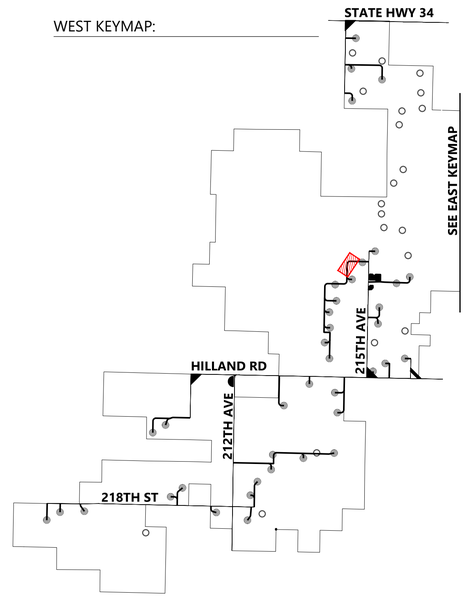
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Philip Wind Project

Haakon County, South Dakota

Road BB - Sta.
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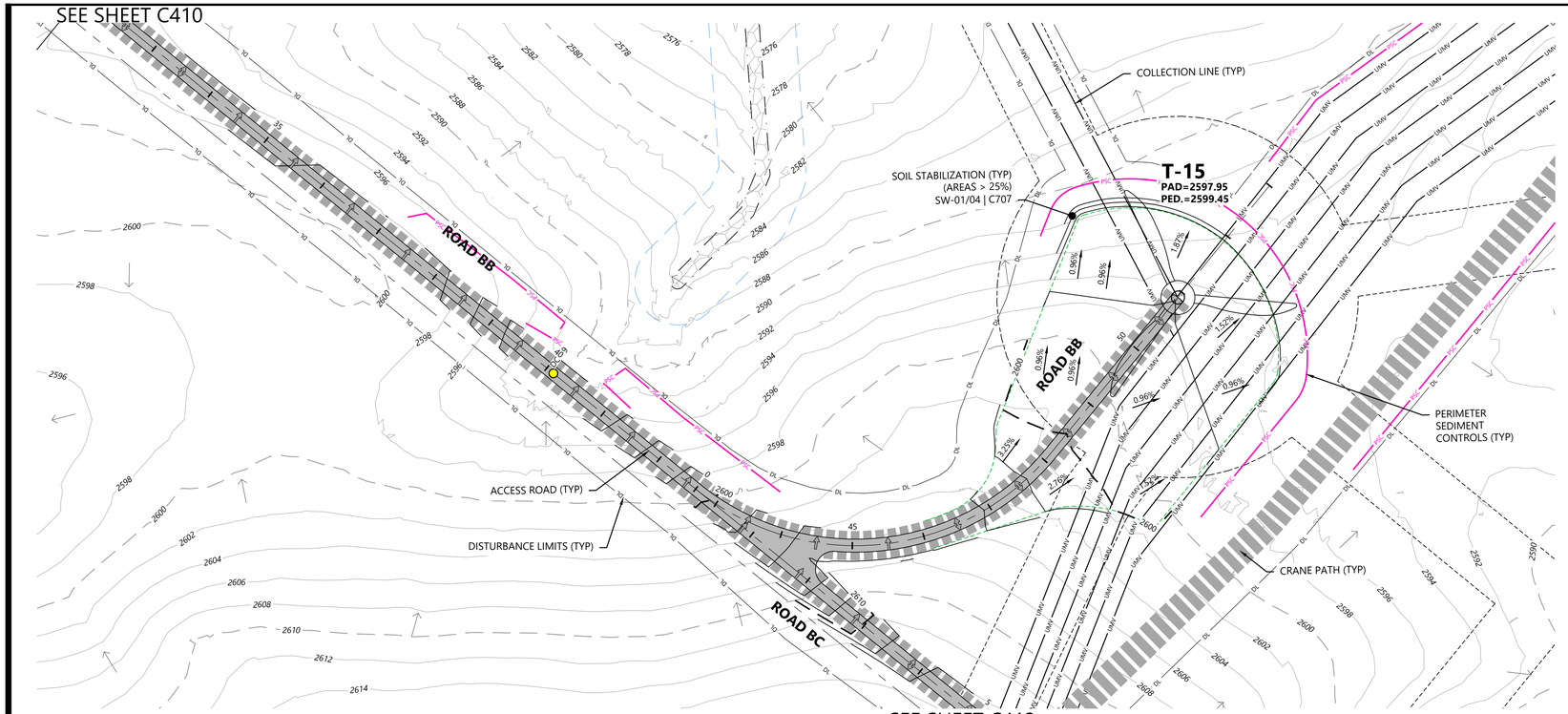
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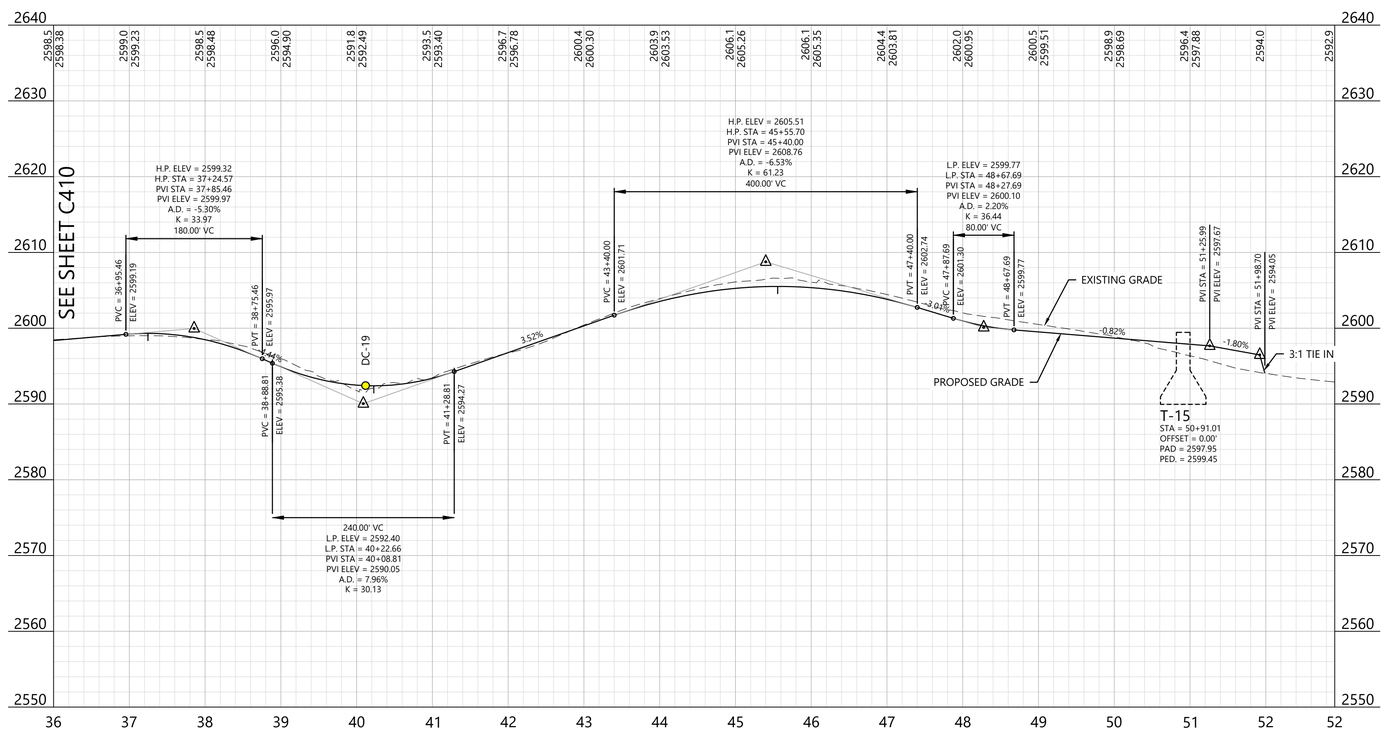
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SHEET: C410

REV: B

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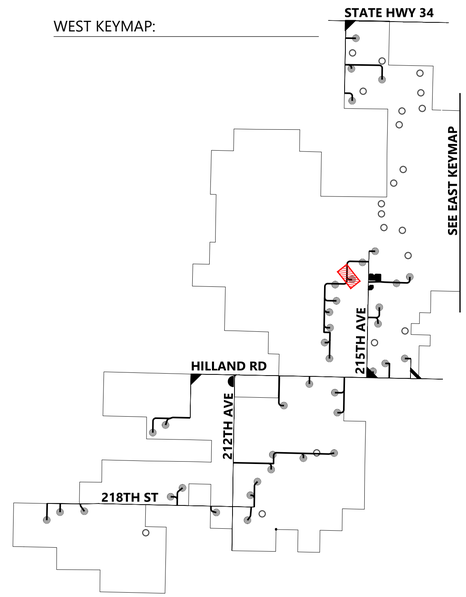
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Haakon County, South Dakota

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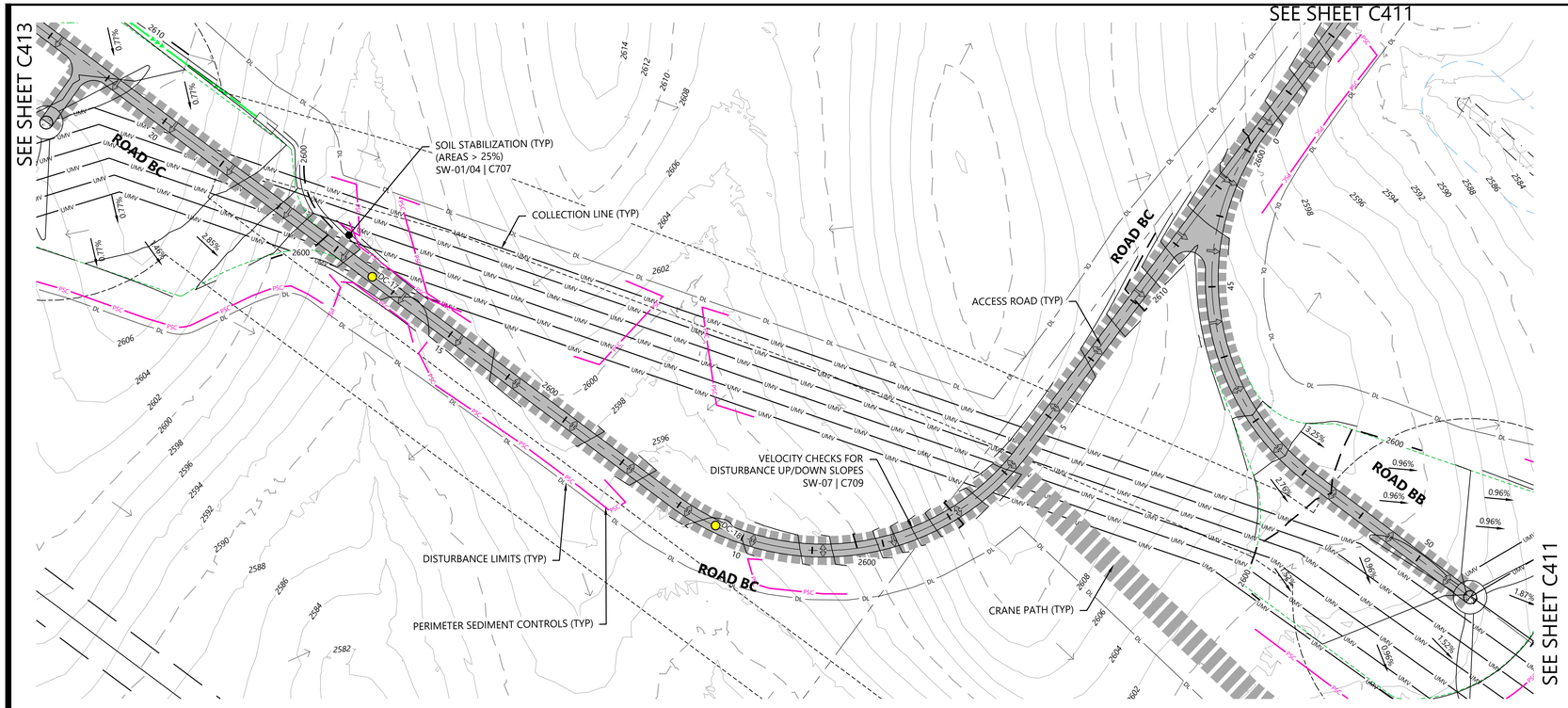
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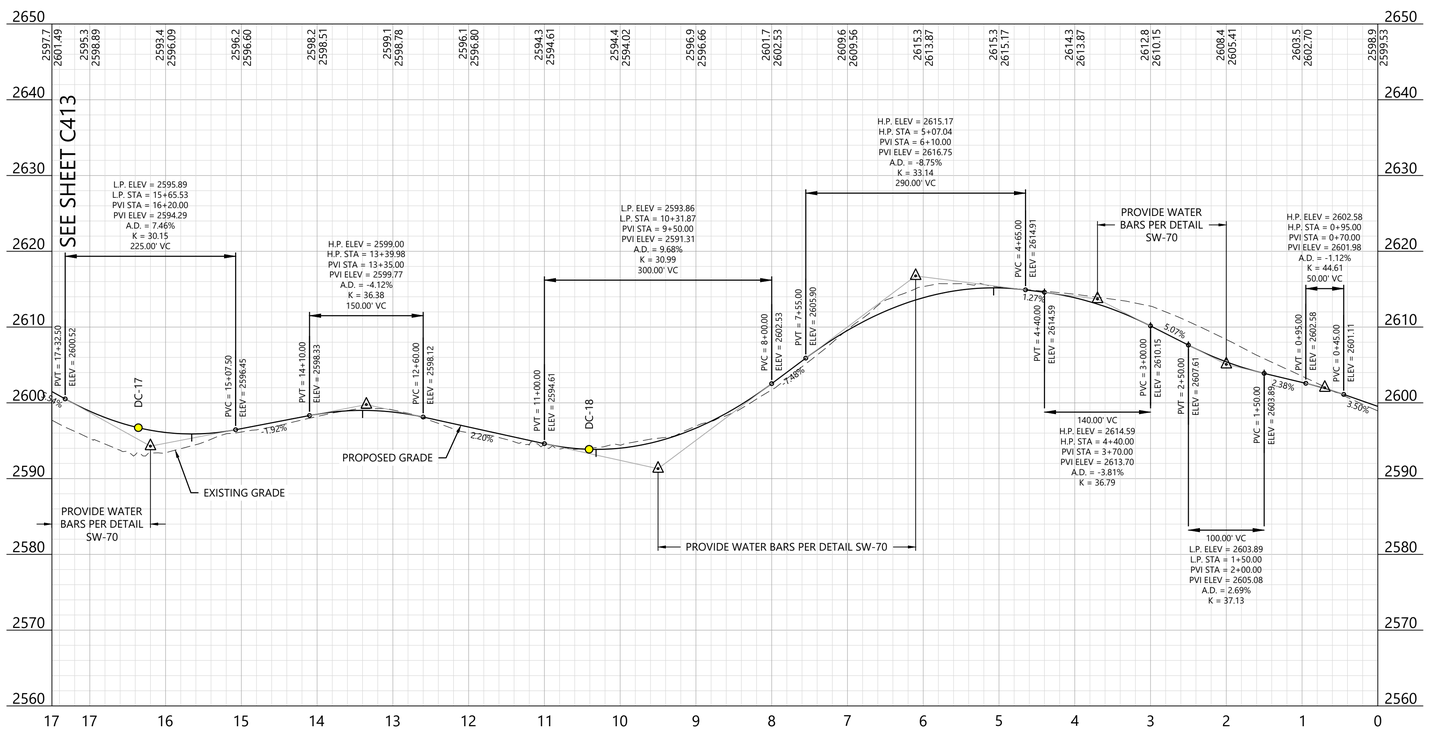
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SHEET: C411

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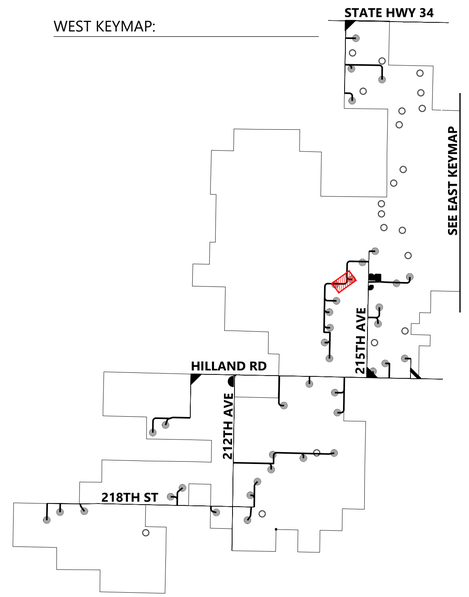
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Haakon County, South Dakota

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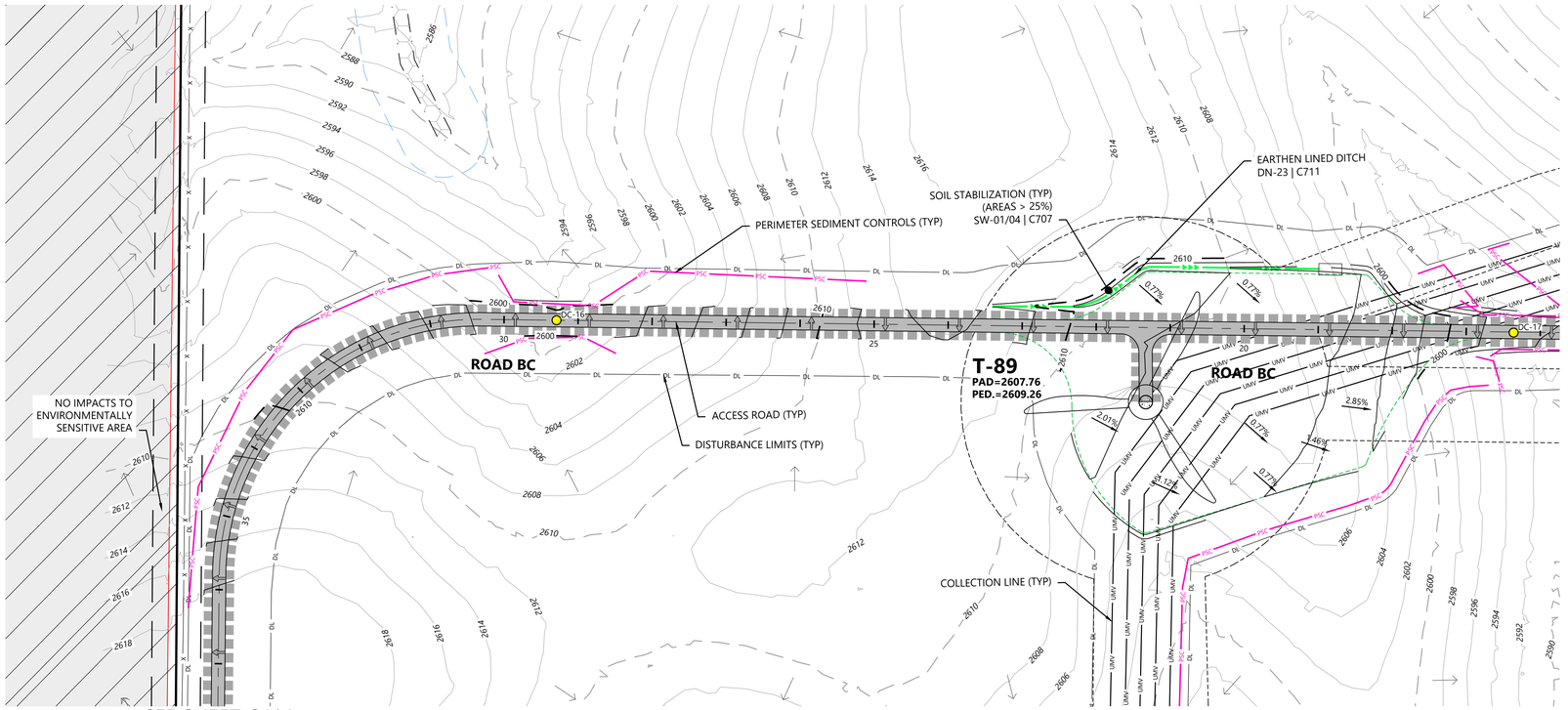
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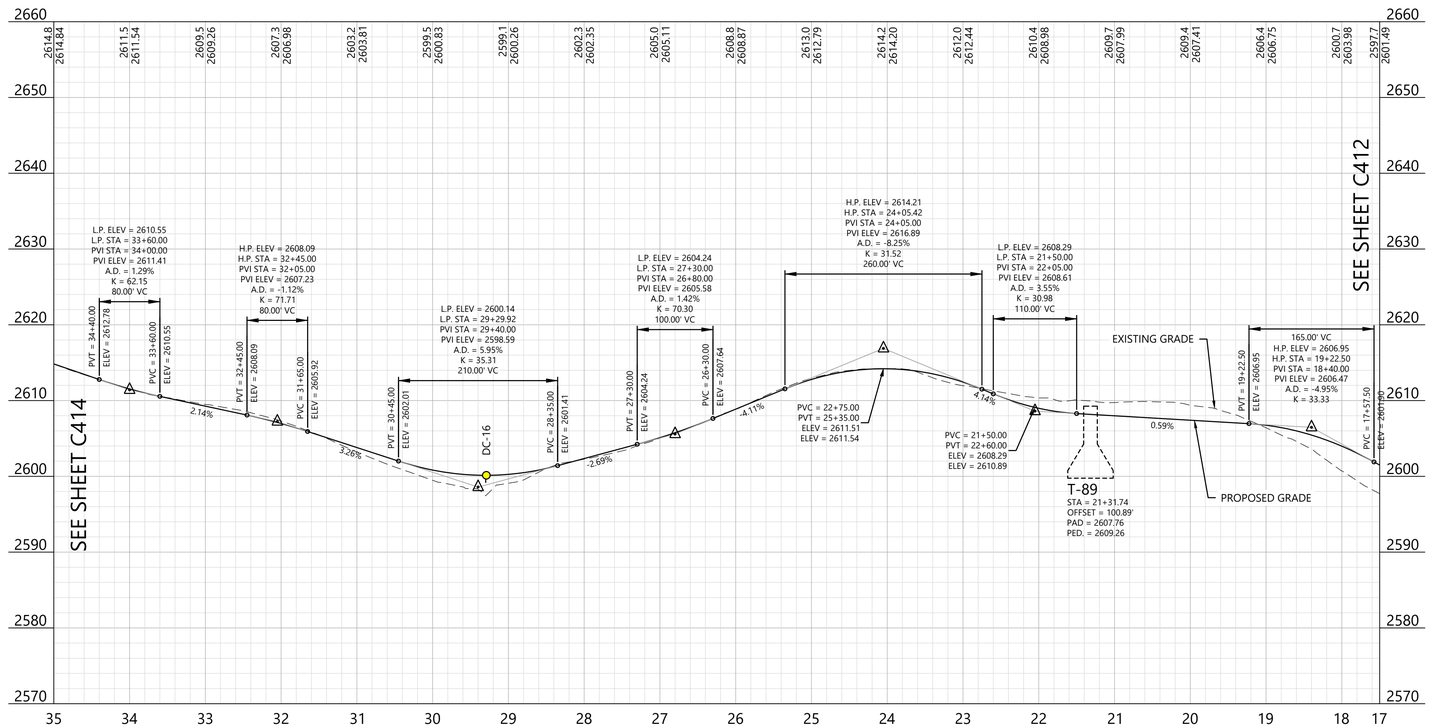
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REV: B

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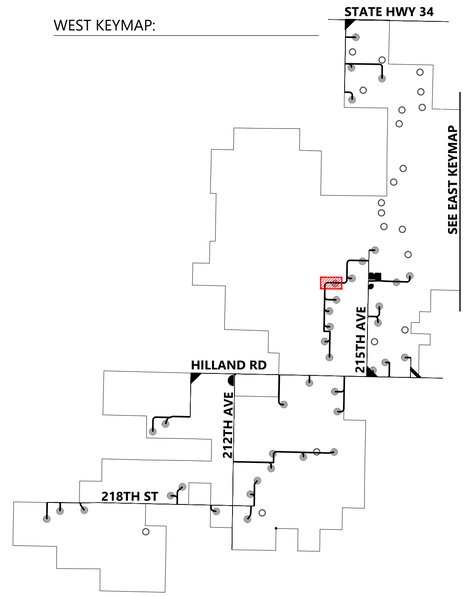
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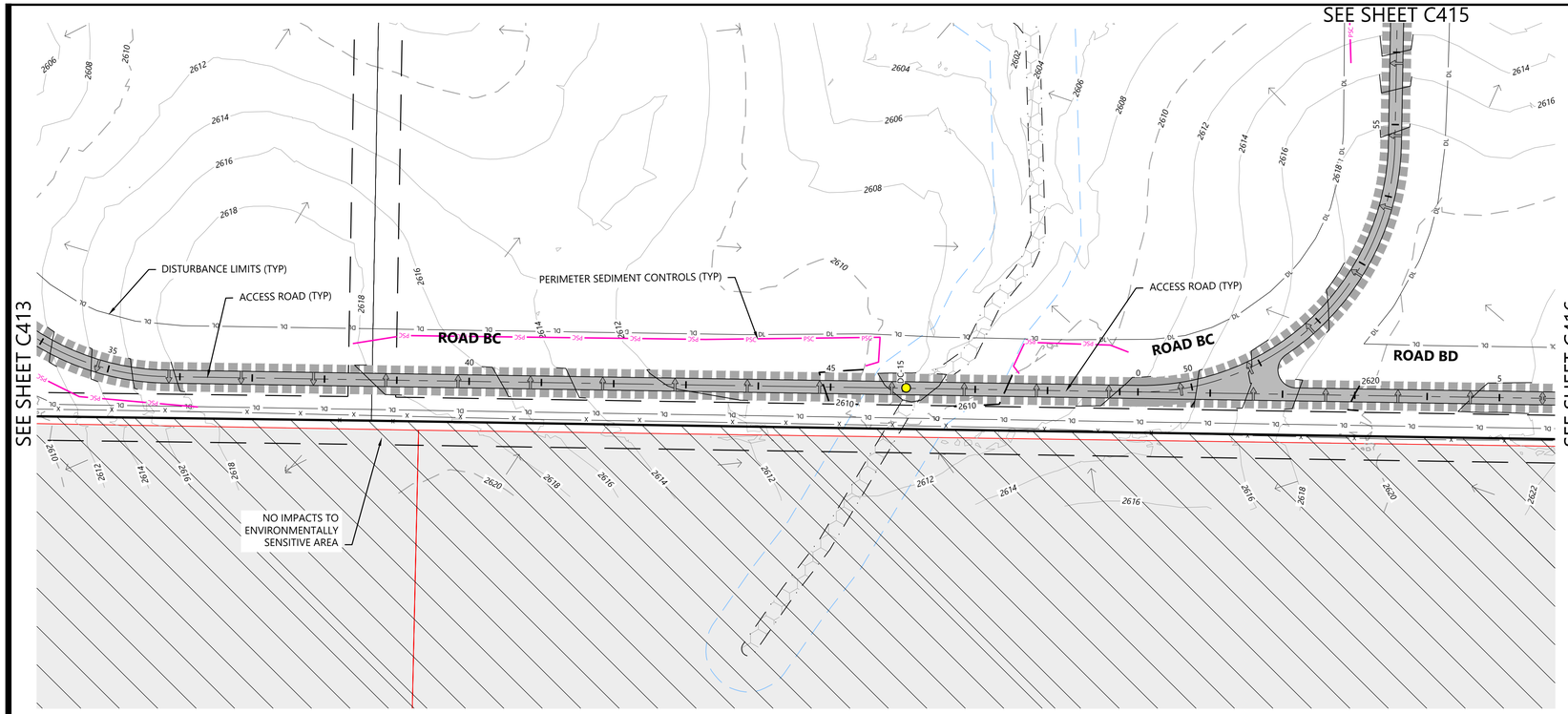
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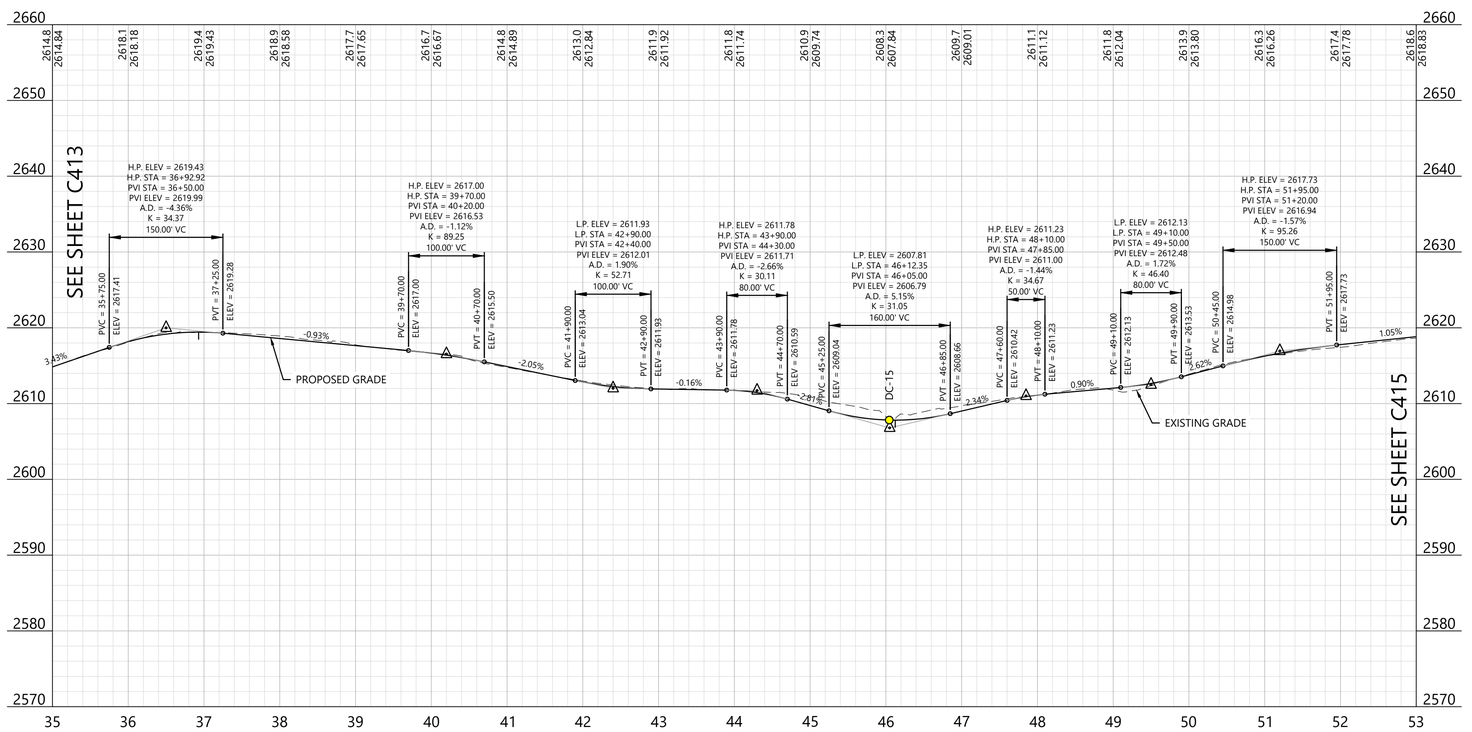
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T-89

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SHEET: C413
REV: B

\\westwoodps.local\Global Projects\05155041\CIV_CAD_Civil\05155041CIVC Drill & Ave_ST\2026.247 PM Grooms Avenue





LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
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- UNKNOWN UTILITY LINE
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- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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PROPOSED:

- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
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- TEMPORARY AGGREGATE
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- OVERHEAD TRANSMISSION
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- REDUNDANT PSC
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- UTILITY CROSSING
- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

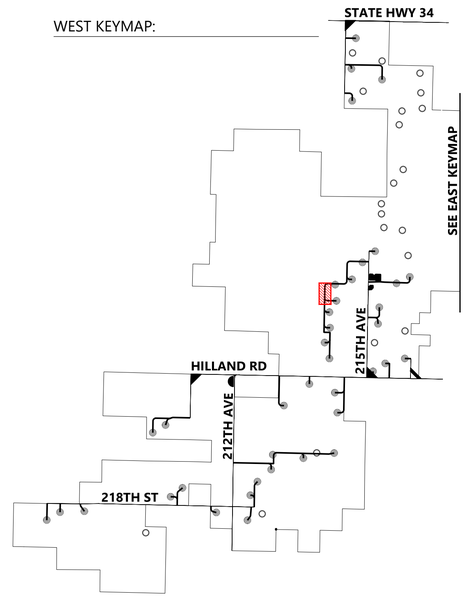
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WEST KEYMAP:



Westwood

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Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELFORD
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road BC - Sta.
35+00.00 to 53+00.00

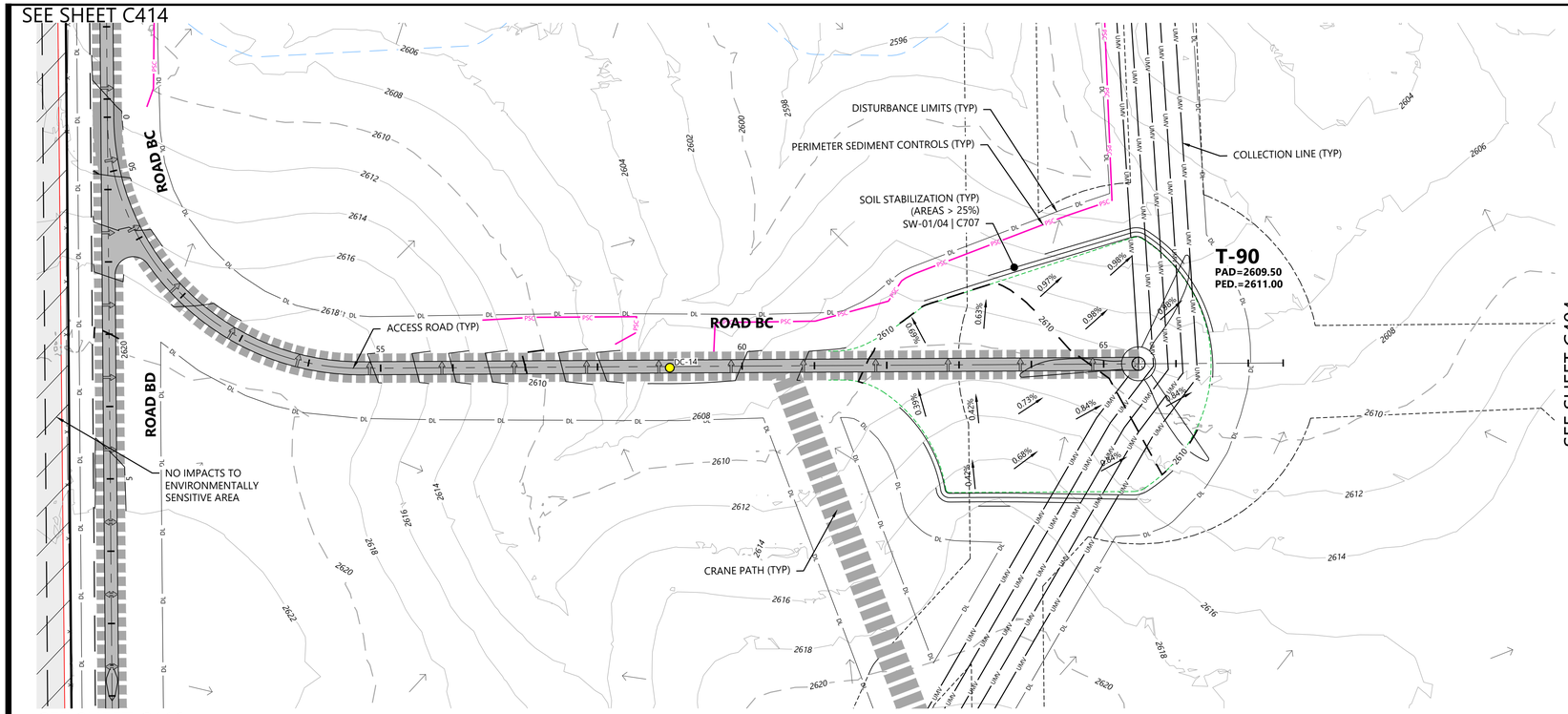
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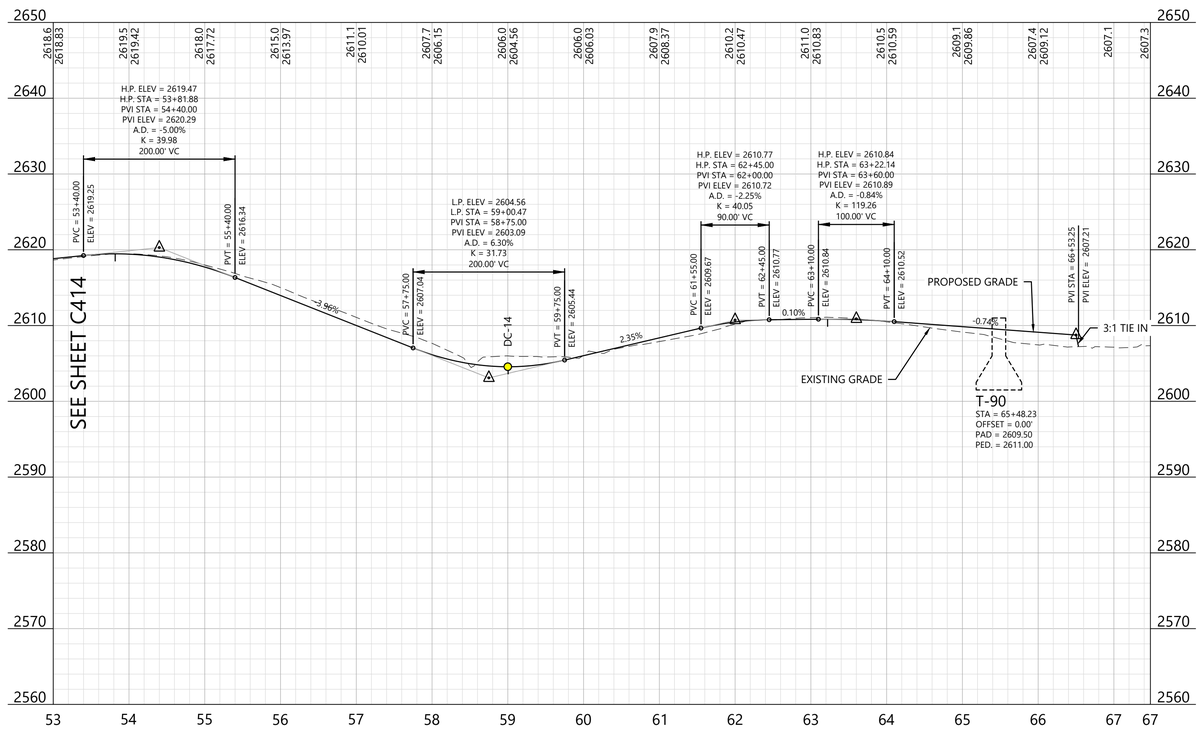
DATE: 05/07/2026

SHEET: C414

REV: B

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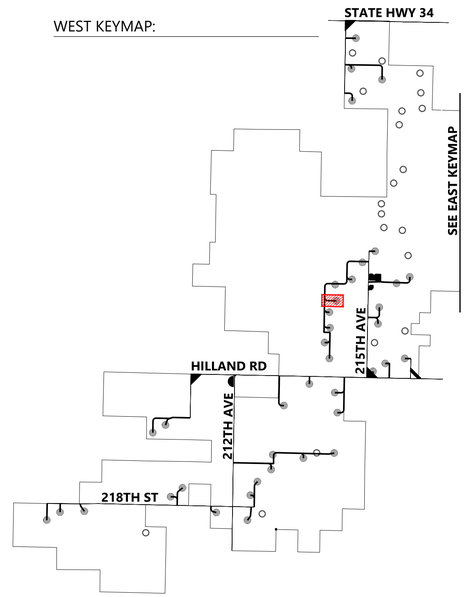
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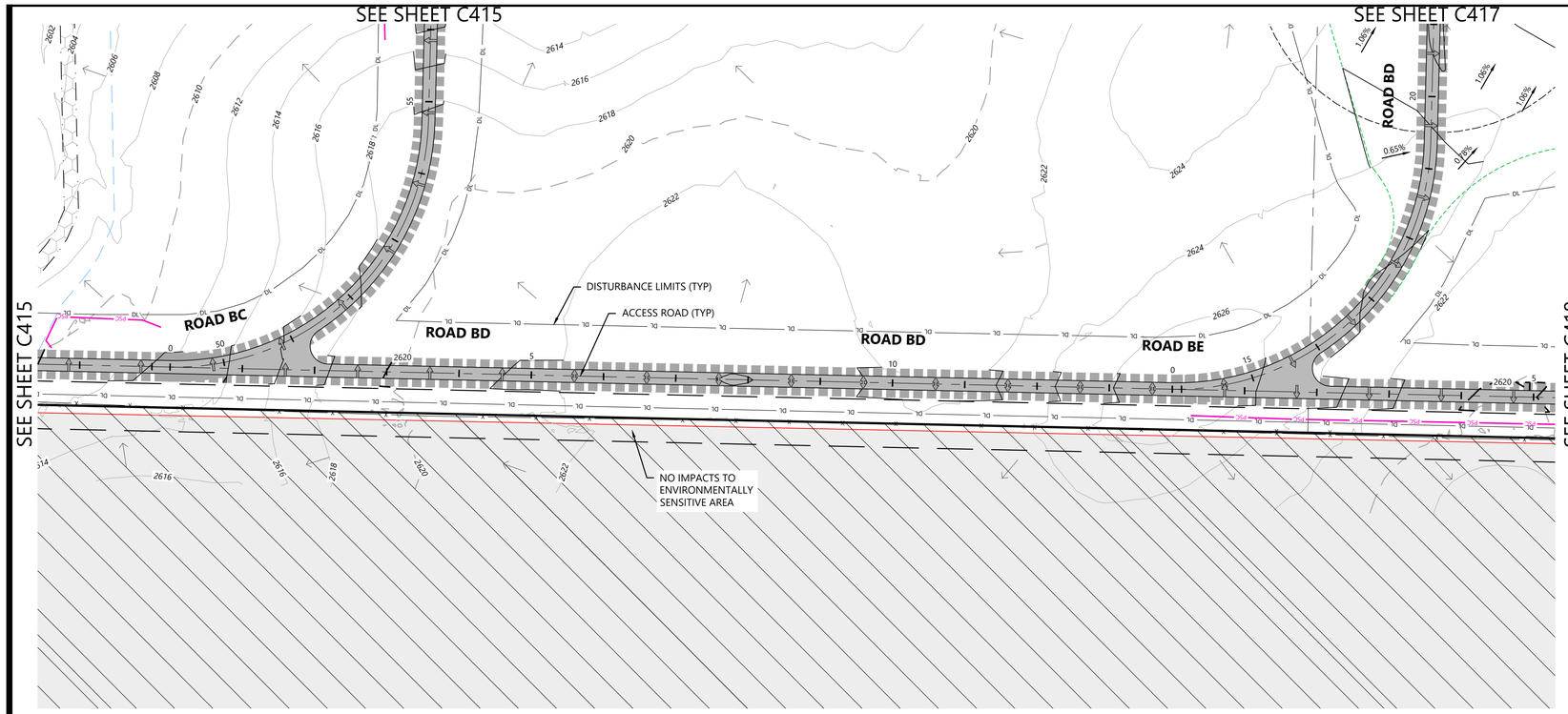
Philip Wind Project
Haakon County, South Dakota

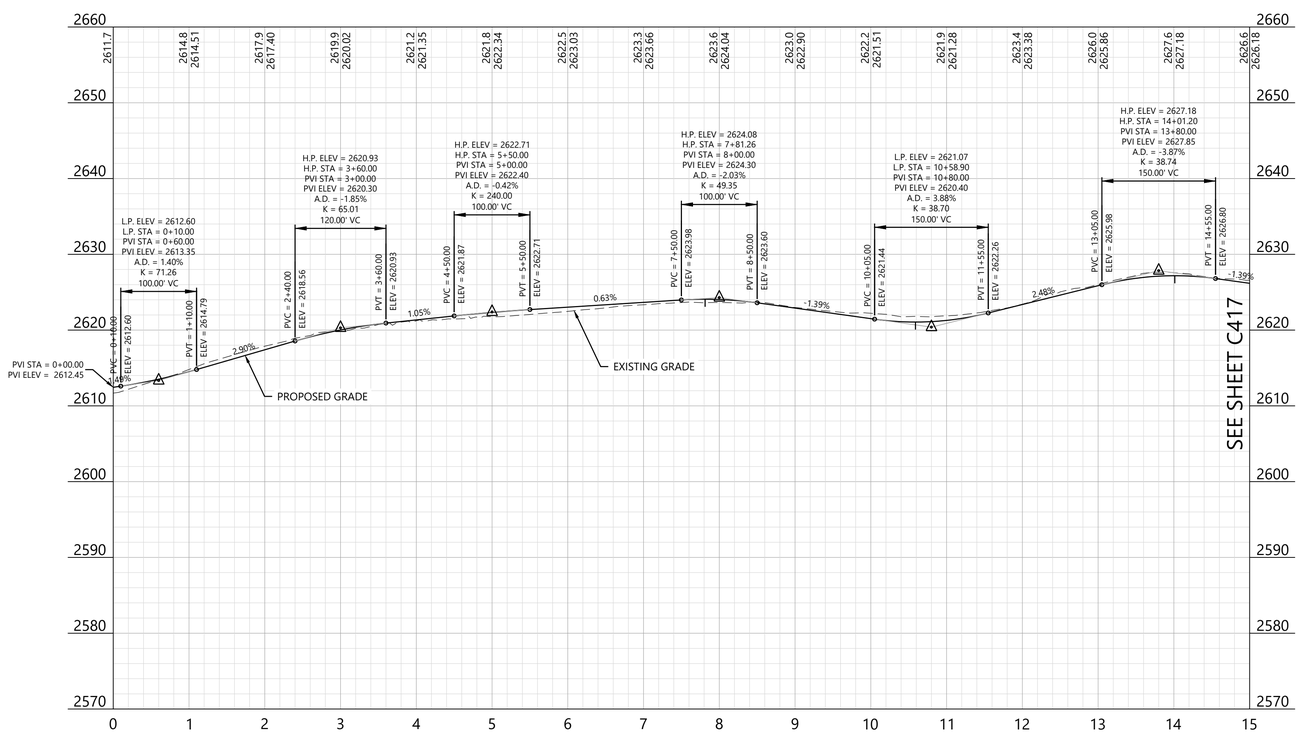
Road BC - Sta. 53+00.00 to End T-90

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DATE: 05/07/2026
SHEET: C415
REV: B

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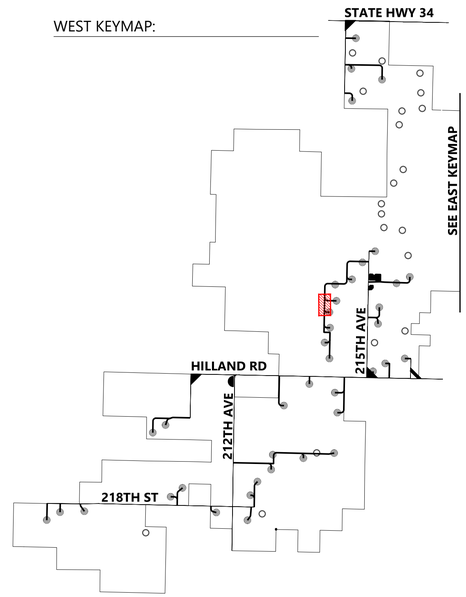
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WEST KEYMAP:



0' 100' 200' 300'

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Philip Wind Project

Haakon County, South Dakota

Road BD - Sta. 0+00.00 to 15+00.00

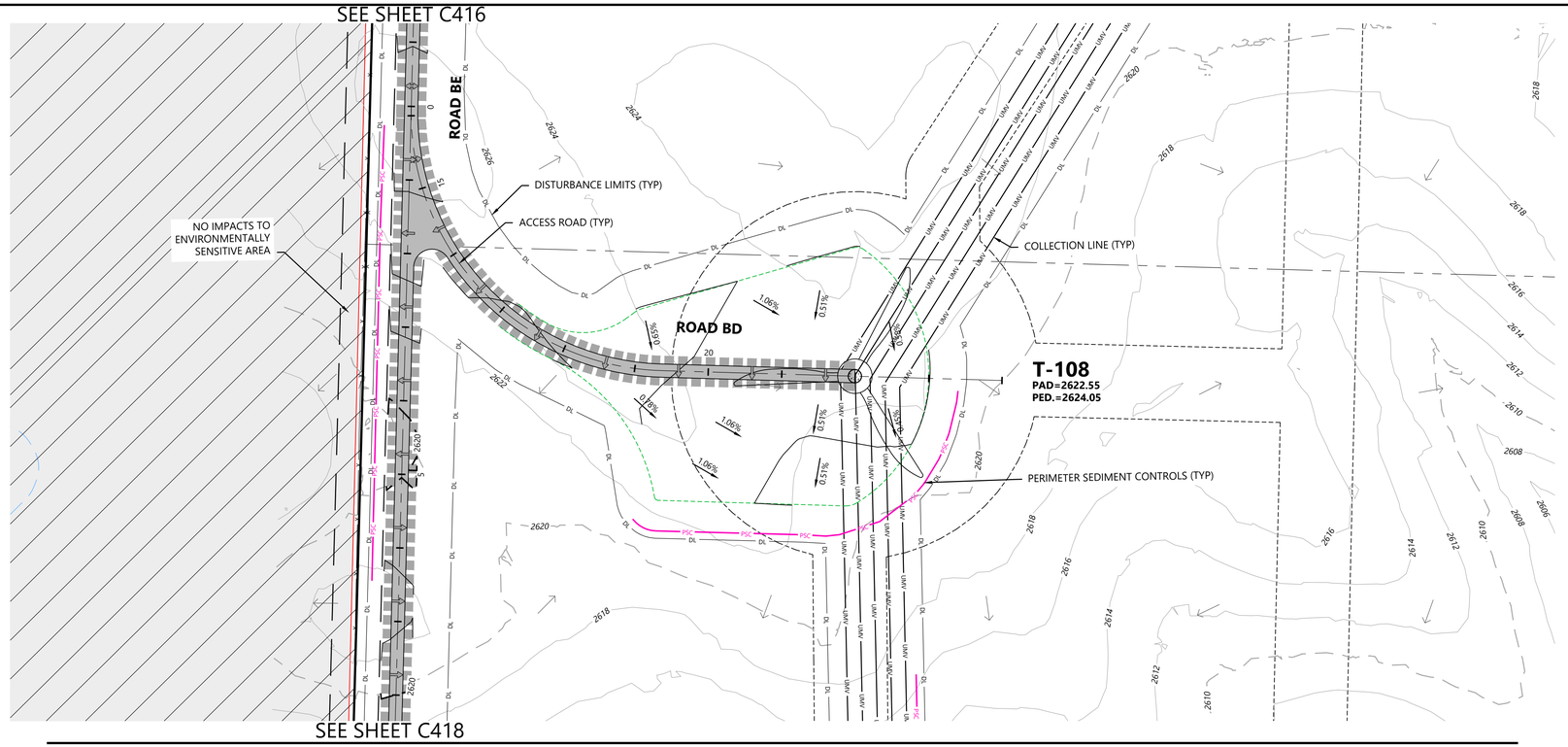
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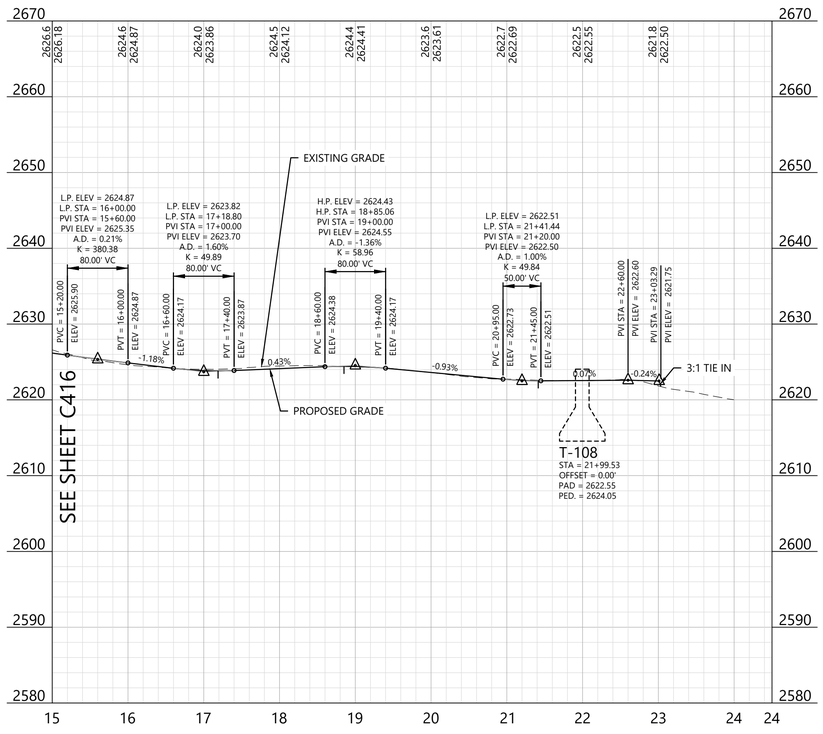
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SHEET: C416

REV: B

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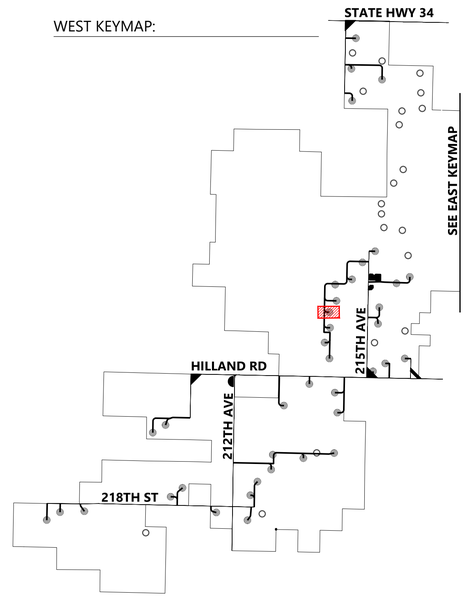
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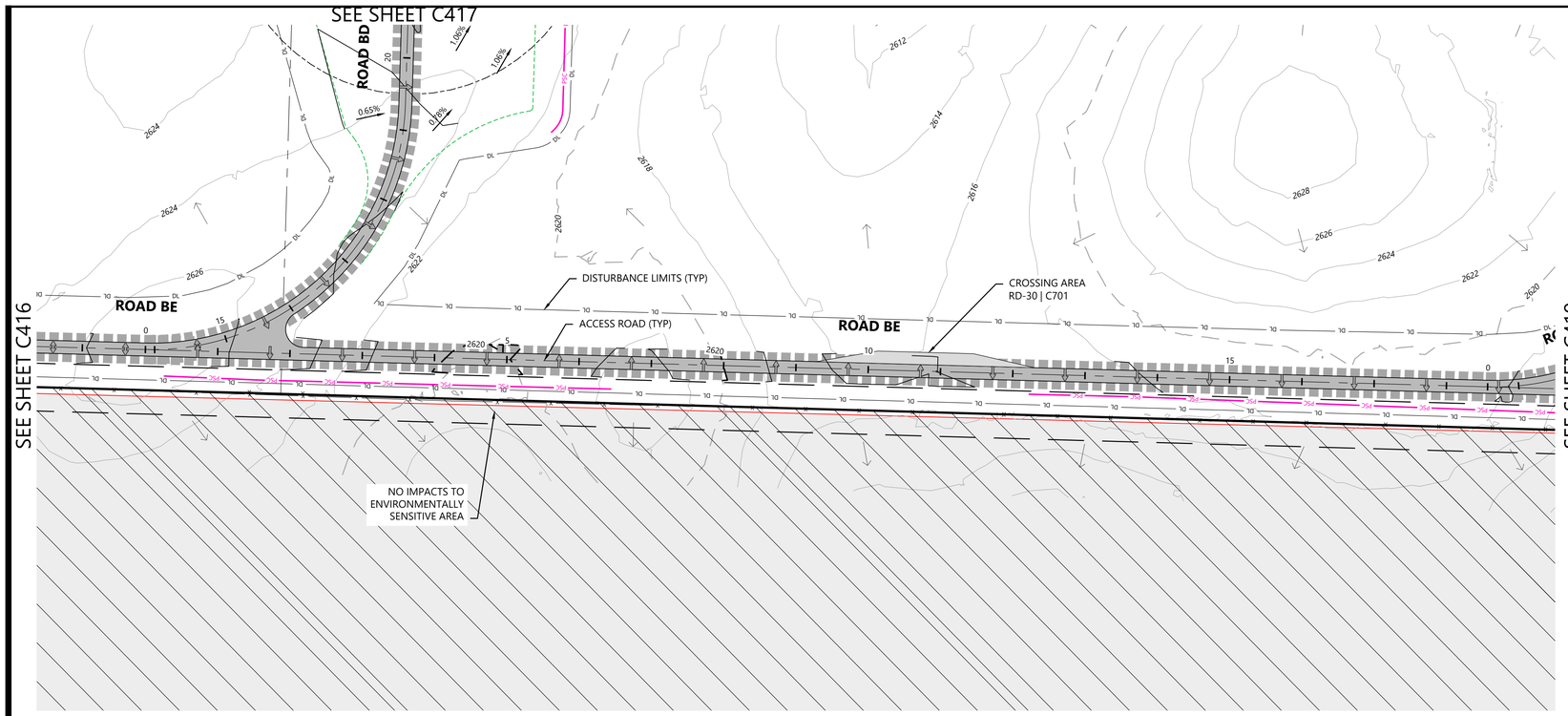
Philip Wind Project
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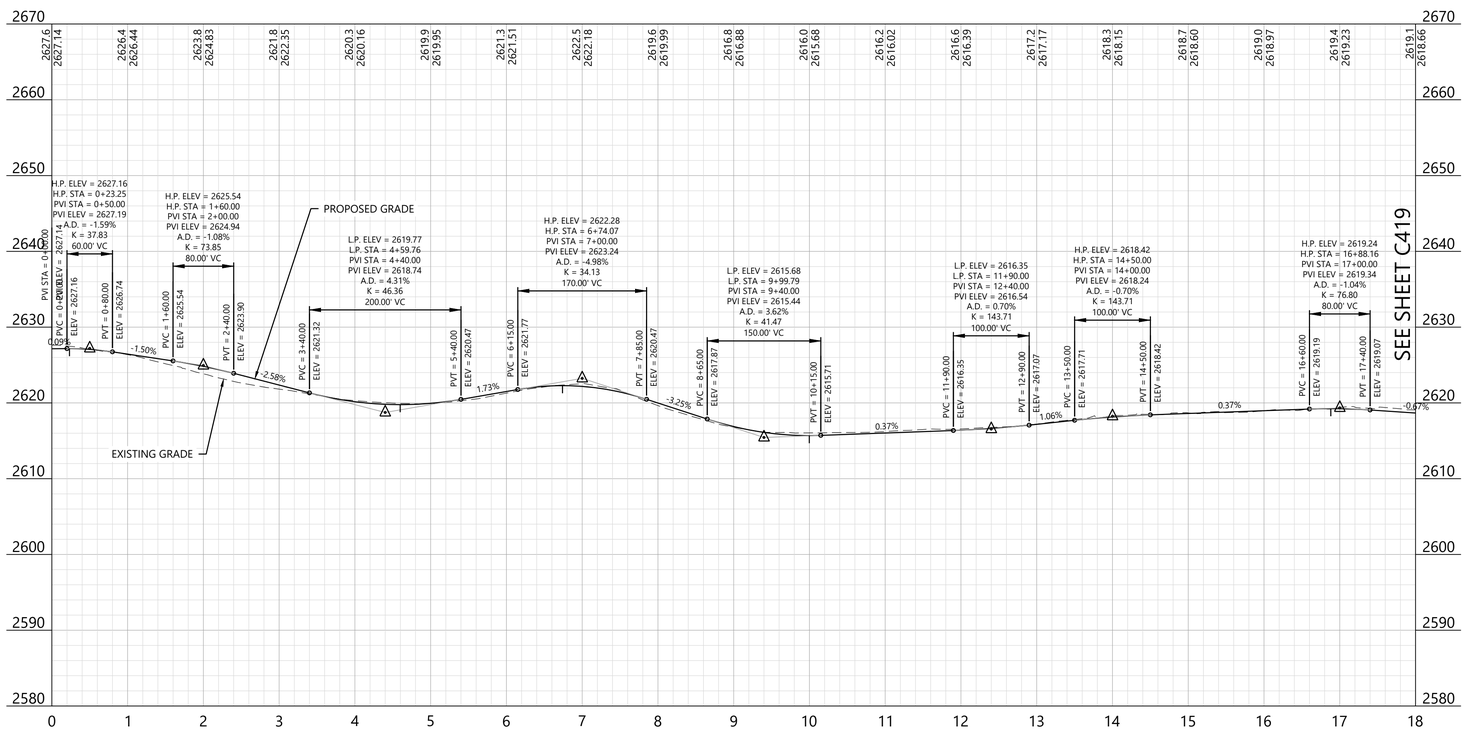
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DATE: 05/07/2026
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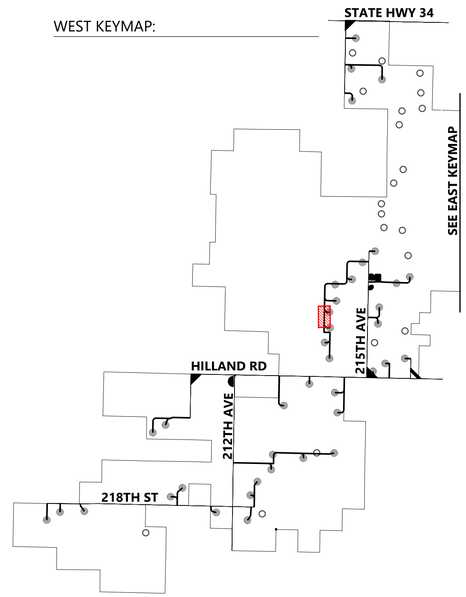
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Haakon County, South Dakota

Road BE - Sta. 0+00.00 to 18+00.00

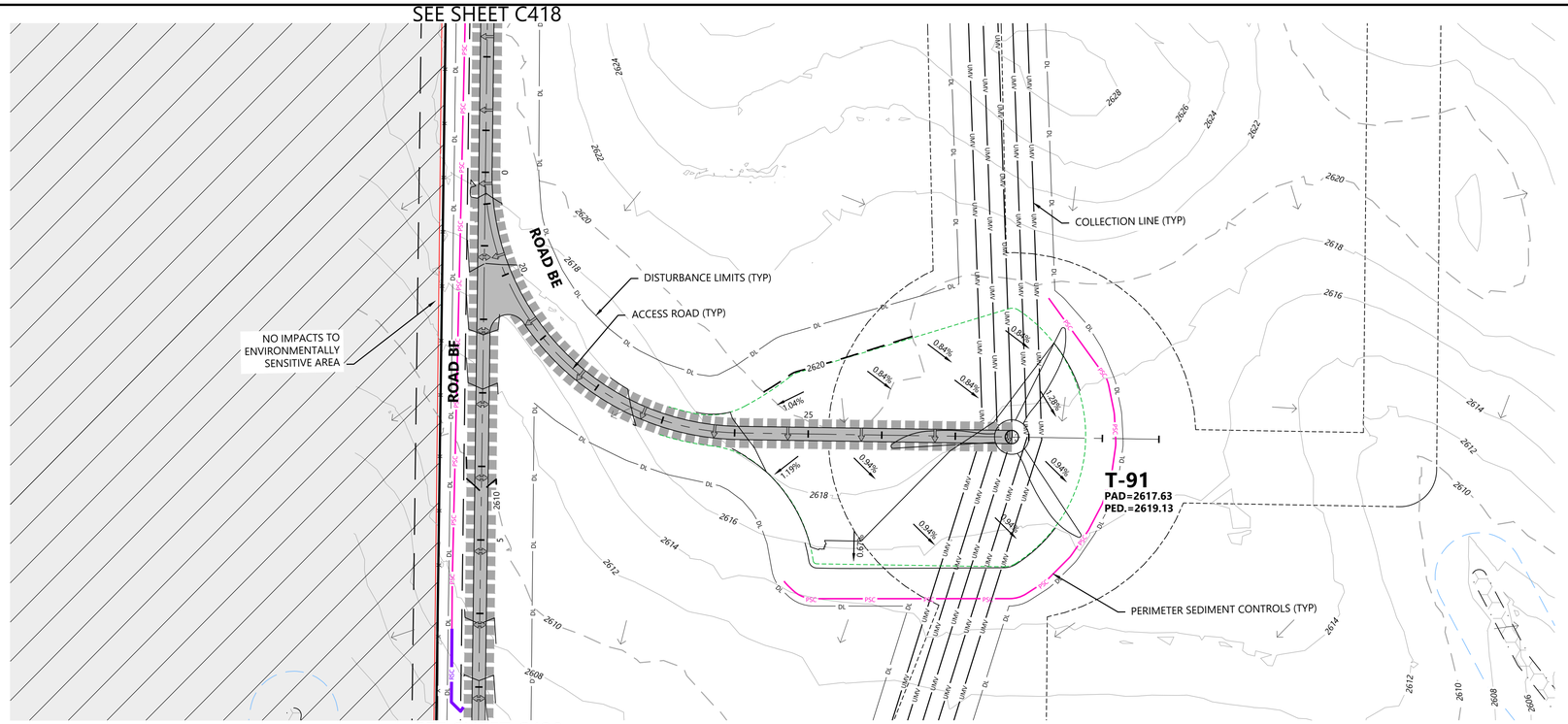
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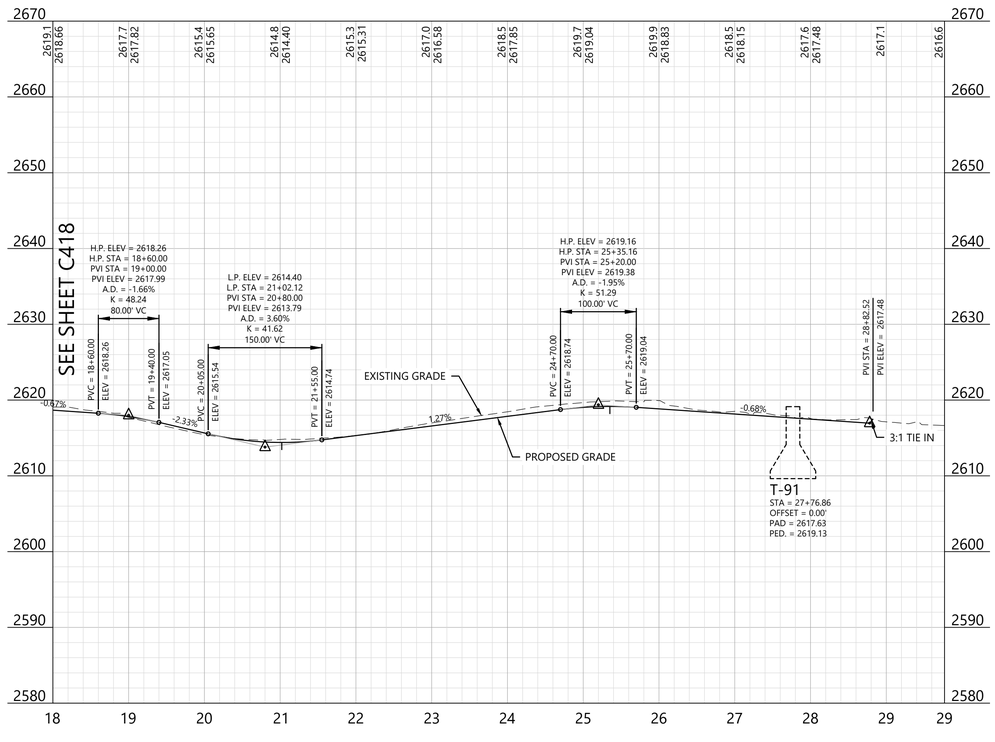
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SHEET: C418

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
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- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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PROPOSED:

- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
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- PERIMETER SEDIMENT CONTROL (PSC)
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- DISTURBANCE LIMITS
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- FENCE CROSSING
- UTILITY CROSSING
- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

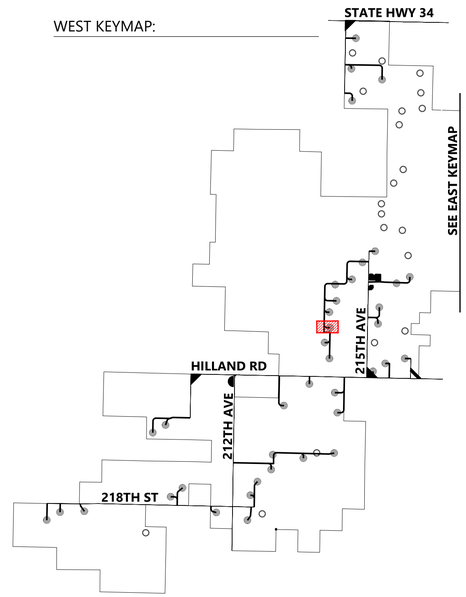
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WEST KEYMAP:



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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road BE - Sta. 18+00.00 to End T-91

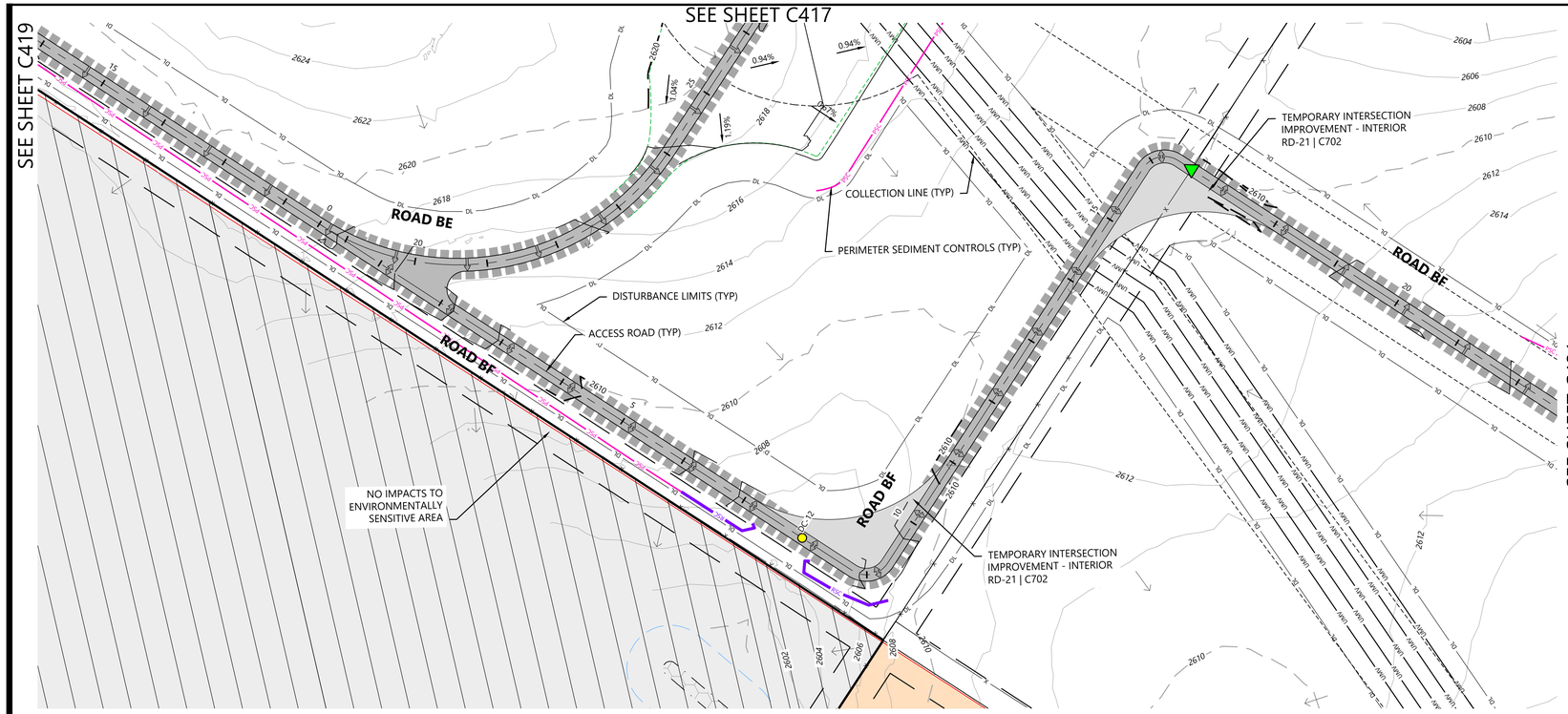
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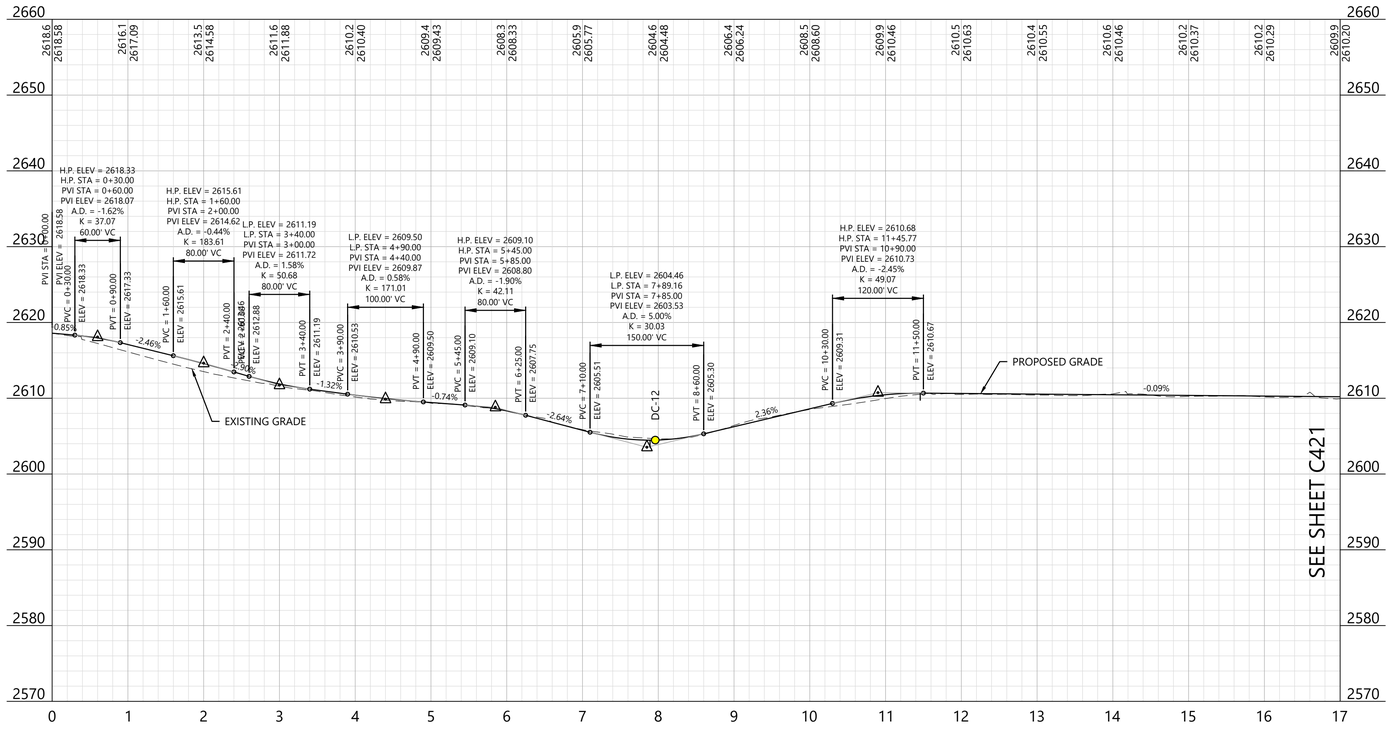
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SHEET: C419

REV: B

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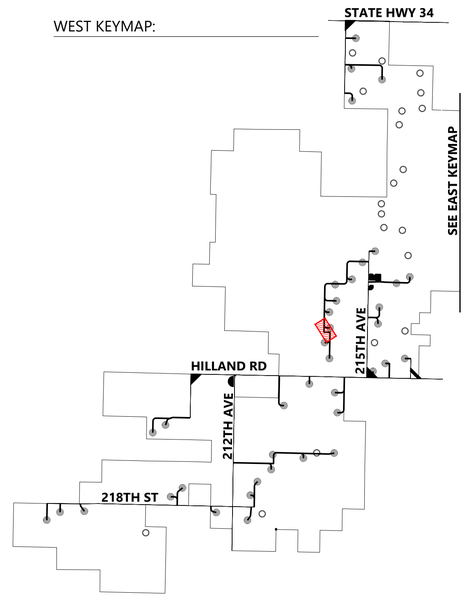
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Haakon County, South Dakota

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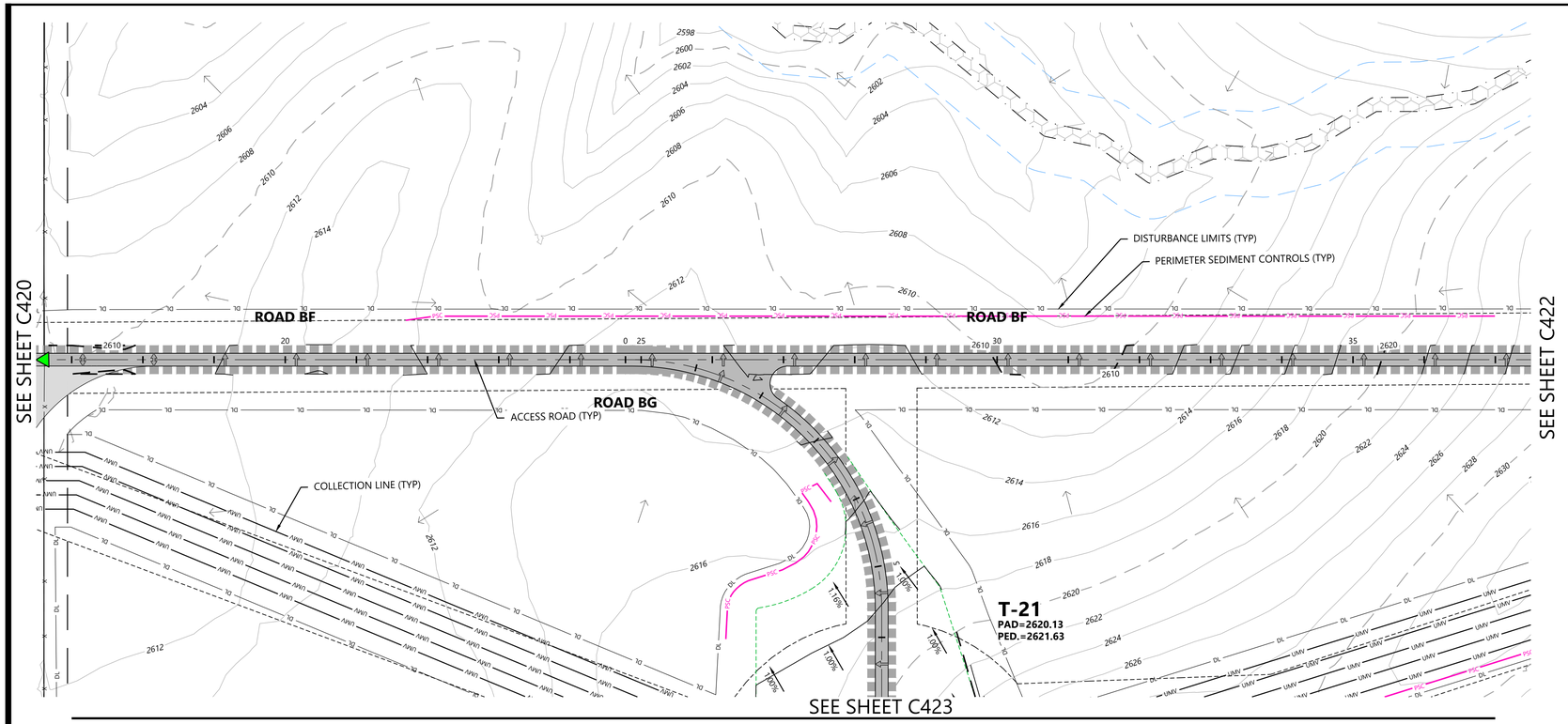
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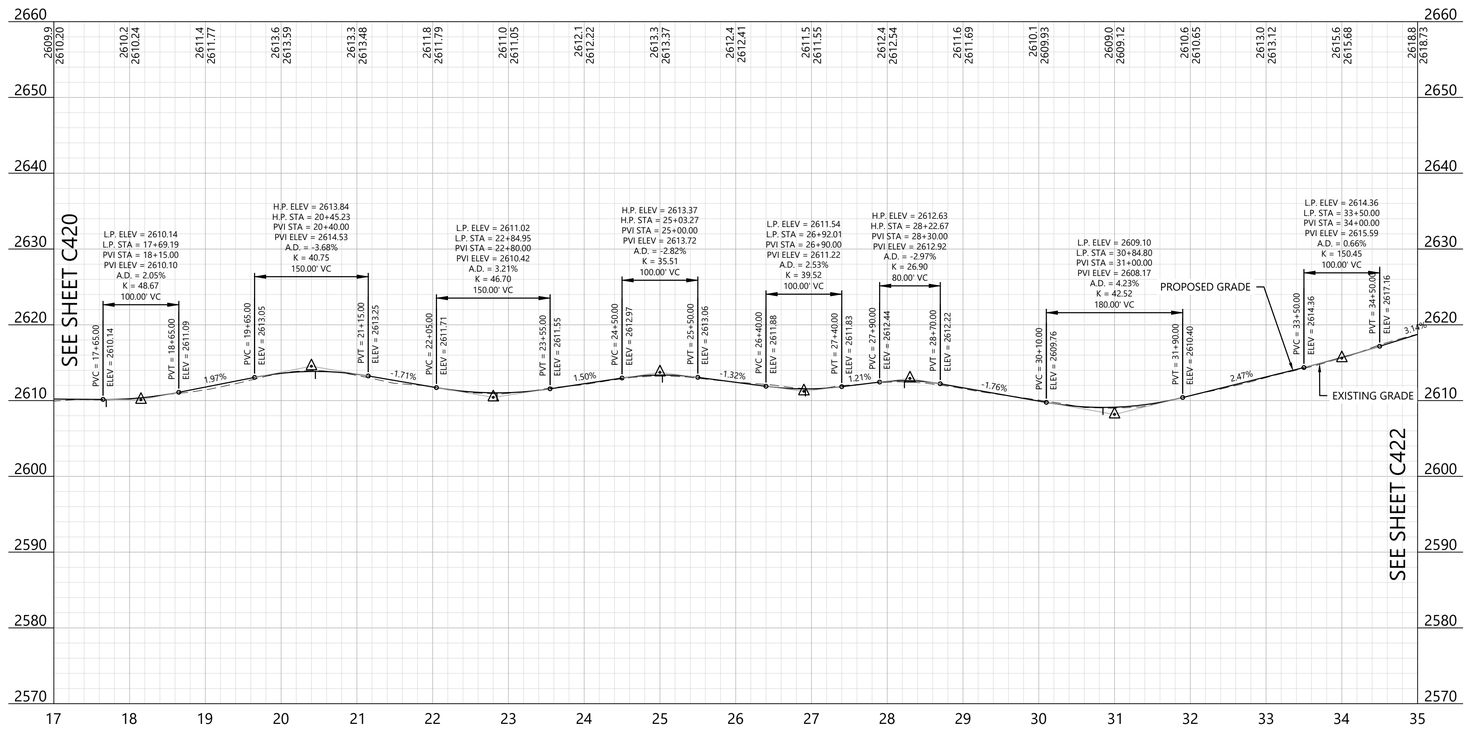
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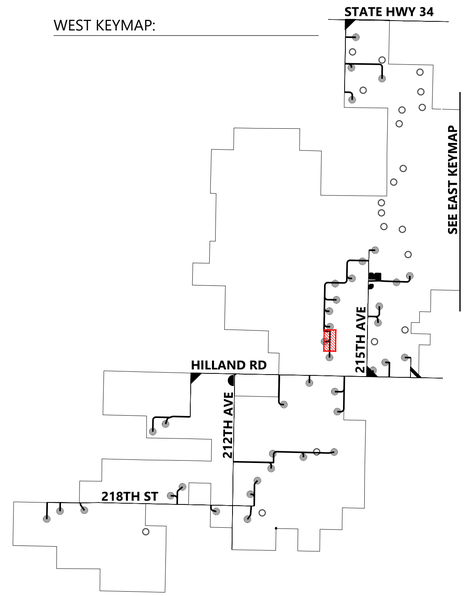
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WEST KEYMAP:



0' 100' 200' 300'

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westwoodps.com

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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

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Philip Wind Project

Haakon County, South Dakota

Road BF - Sta. 17+00.00 to 35+00.00

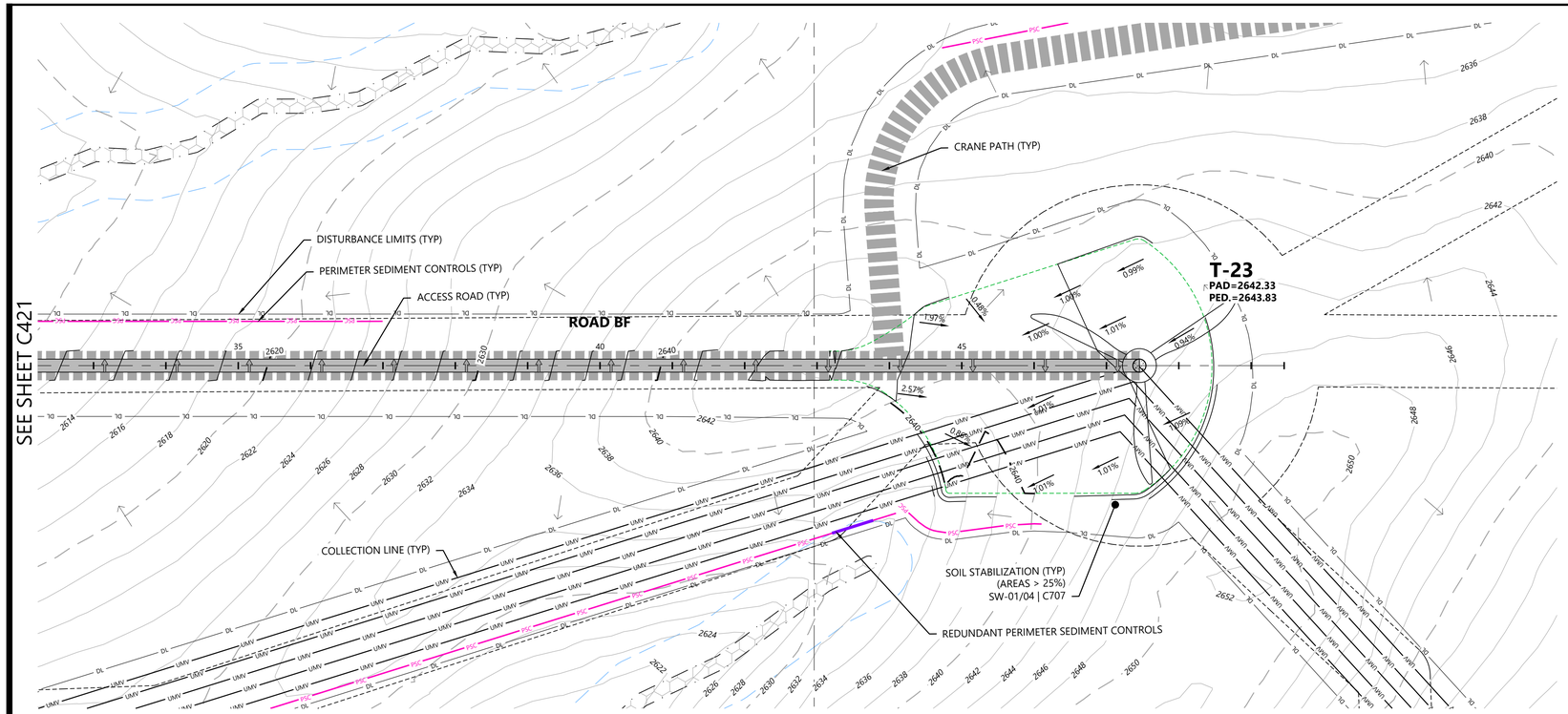
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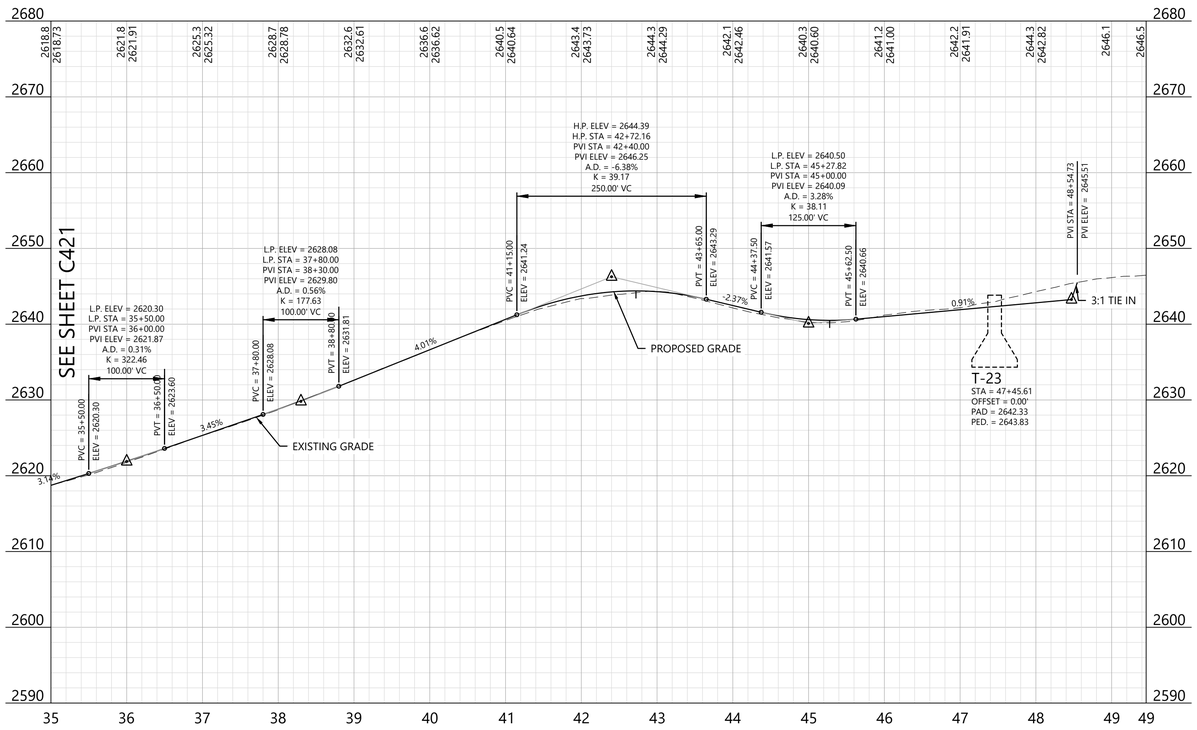
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REV: B

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LEGEND:

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- EASEMENT LINES
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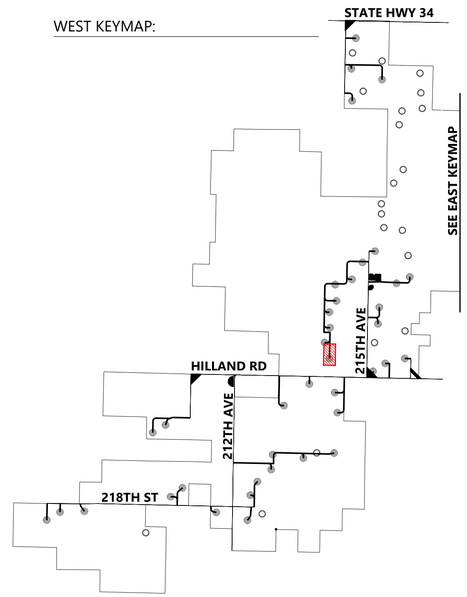
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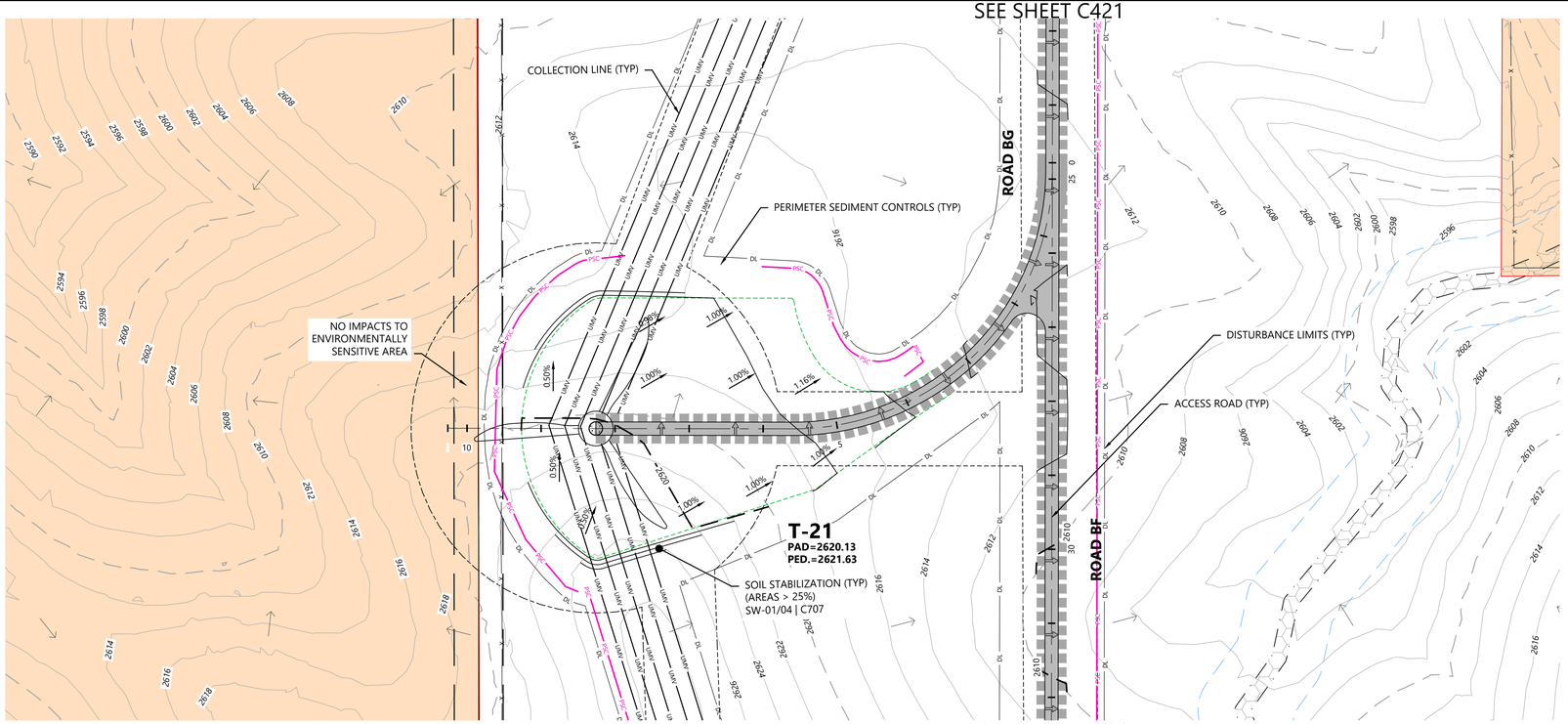
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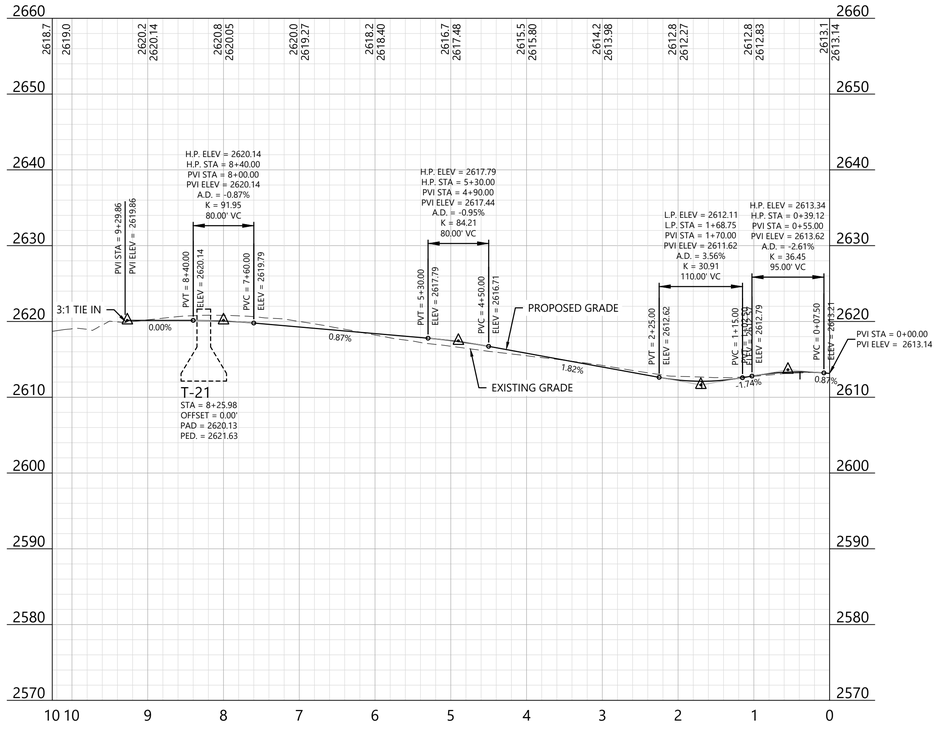
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SHEET: C422

REV: B

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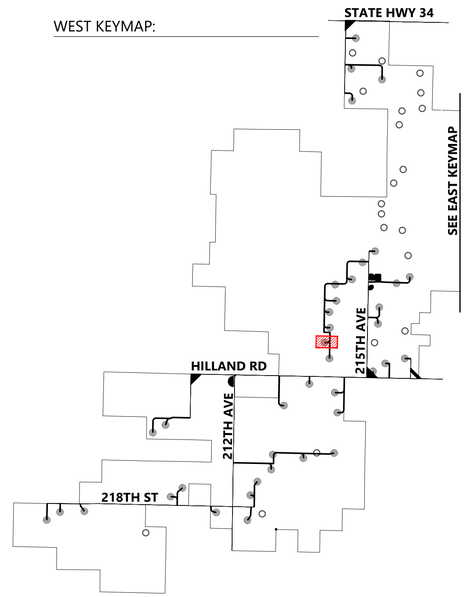
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   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

WEST KEYMAP:



Westwood

Phone (281) 883-0103 | 20455 State Highway 249, Suite 400
Toll Free (888) 937-5150 | Houston, TX 77070
westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER — REG. NO. 17360 — DAVID KELFORD — SOUTH DAKOTA — 06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road BG - Sta. 0+00.00 to End T-21

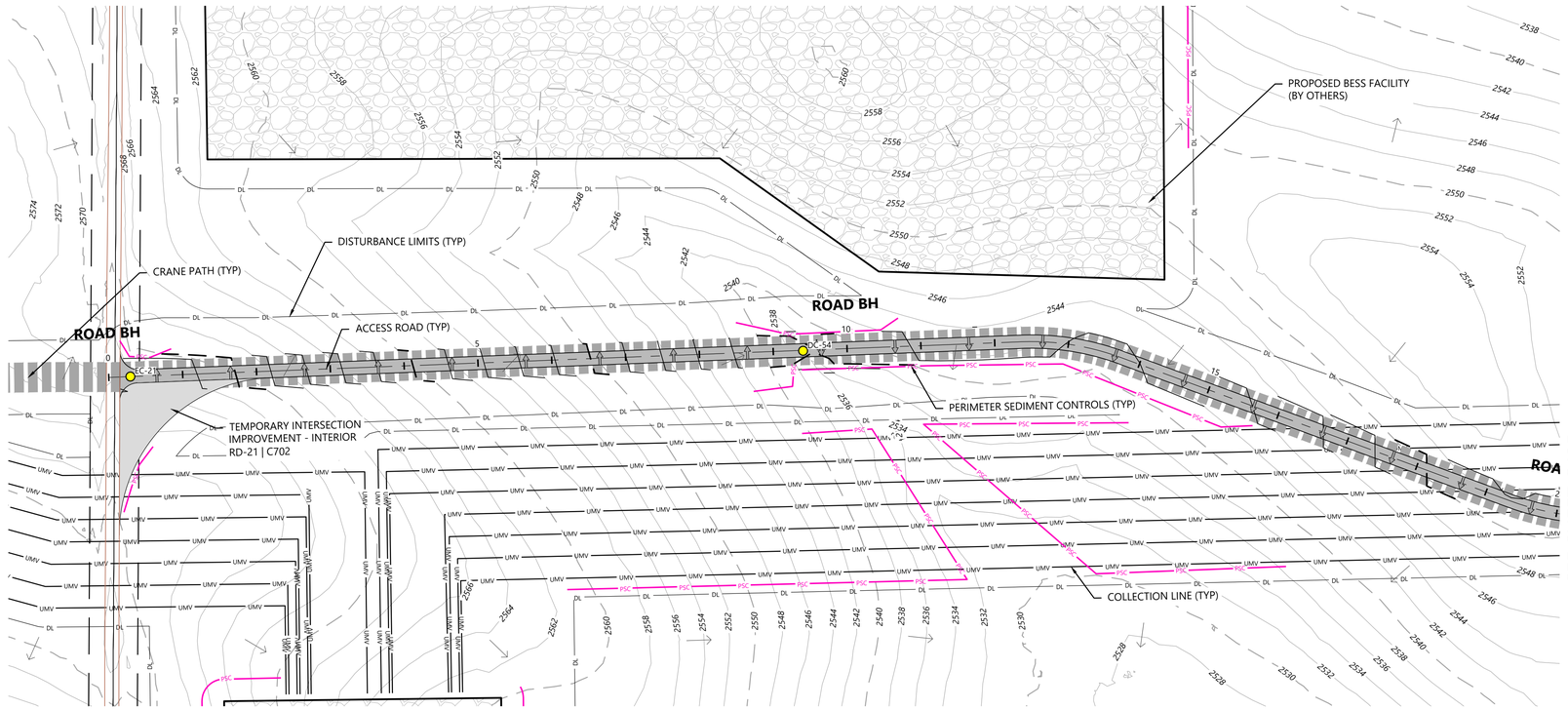
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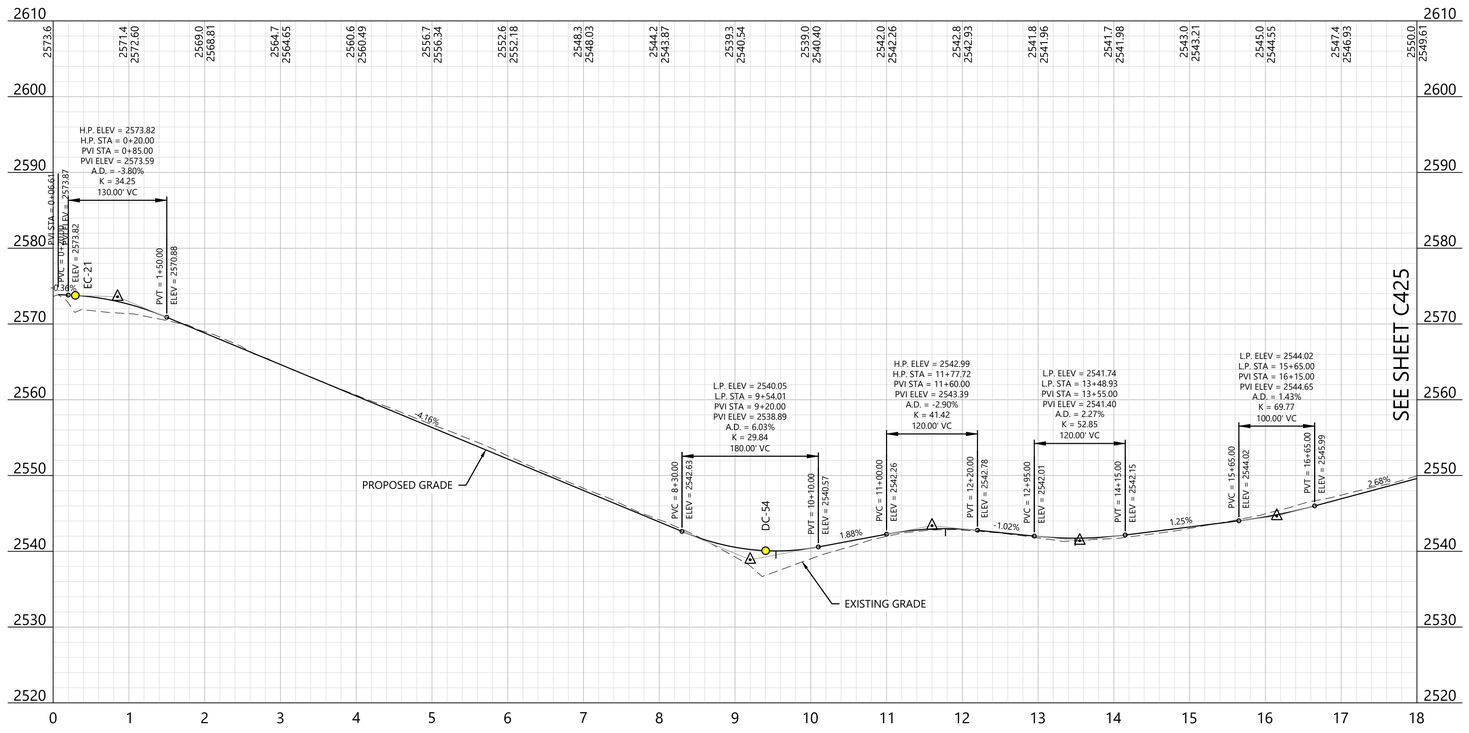
DATE: 05/07/2026

SHEET: C423

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
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- GRAVEL ROAD
- FENCE
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- WATER LINE
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- CULVERT
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- WETLAND (DELINEATED)
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- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
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- WATER EDGE (PUBLIC DATA)
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- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
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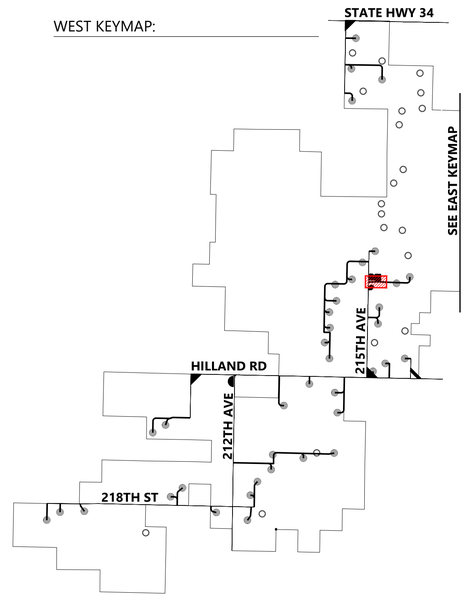
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SOUTH DAKOTA
06/17/26

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Philip Wind Project

Haakon County, South Dakota

Road BH - Sta. 0+00.00 to 18+00.00

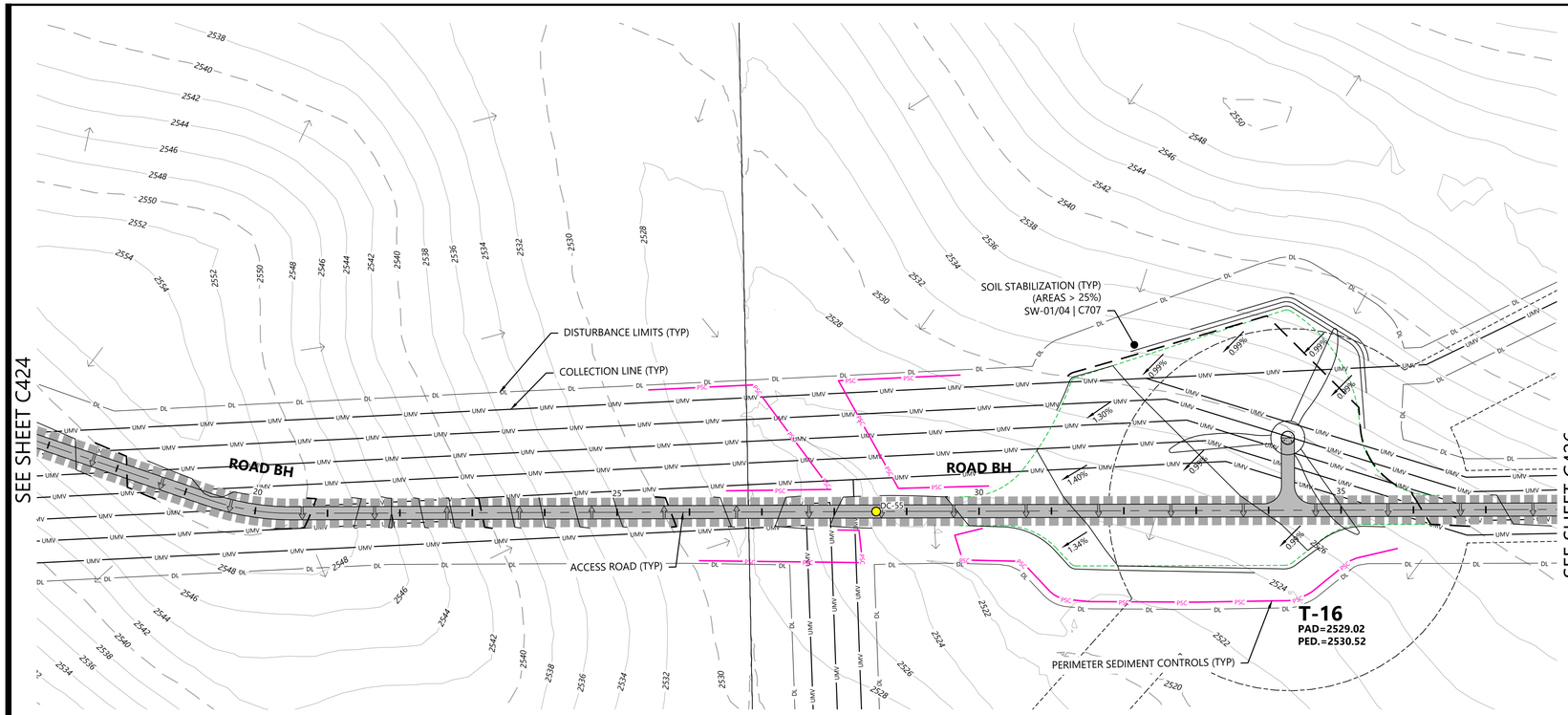
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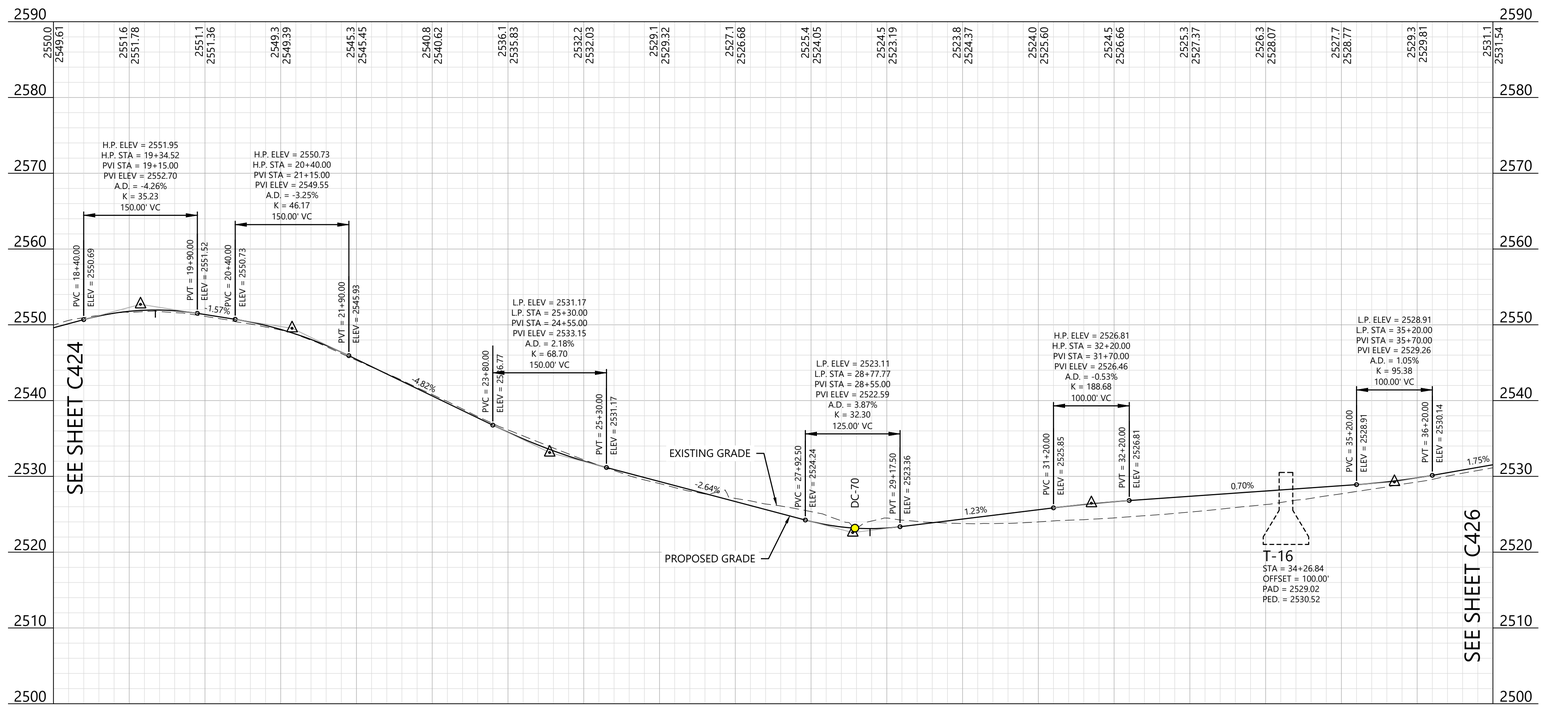
DATE: 05/07/2026

SHEET: C424

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
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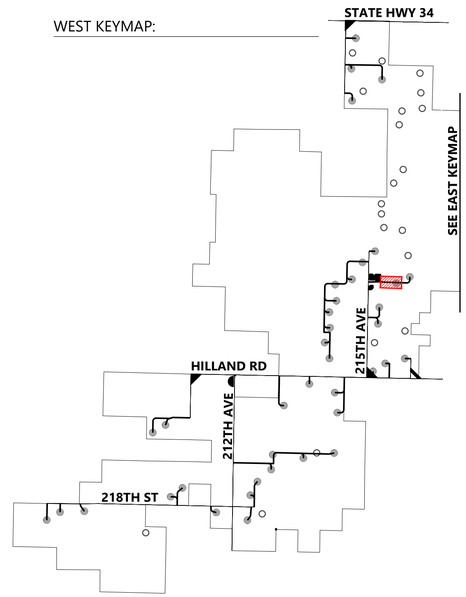
GENERAL NOTES:

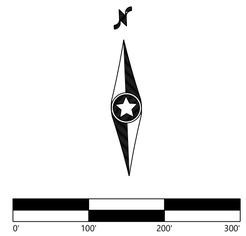
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Philip Wind Project

Haakon County, South Dakota

Road BH - Sta. 18+00.00 to 37+00.00
T-16

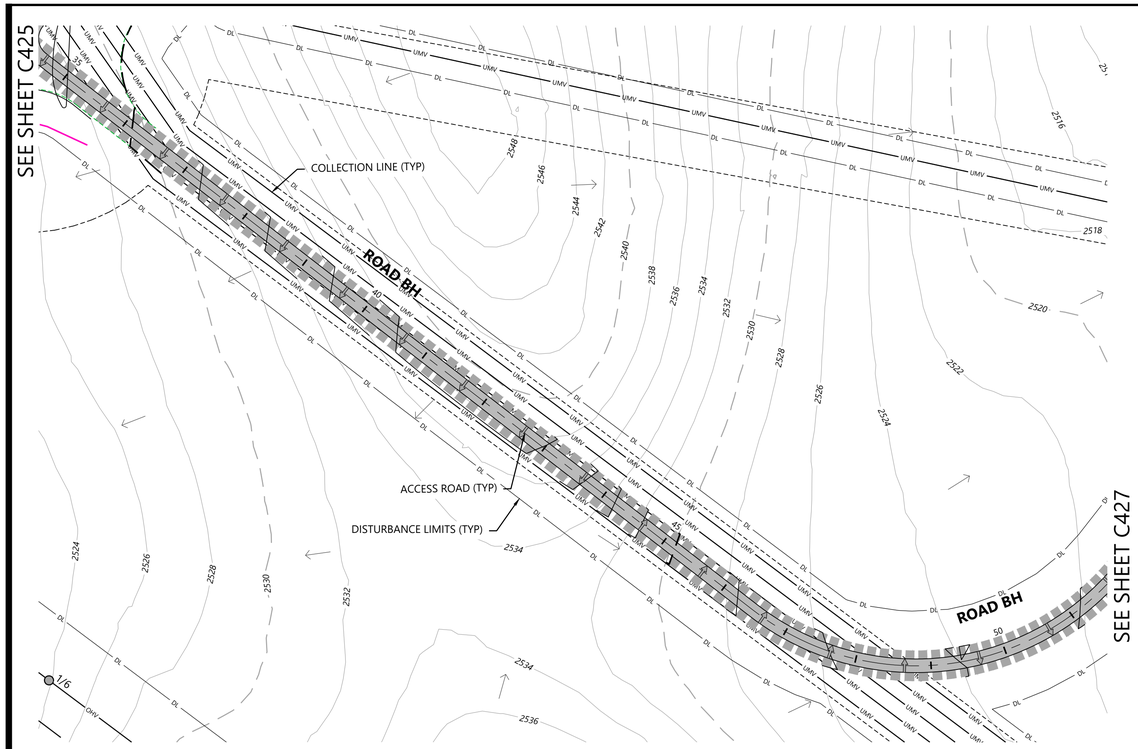
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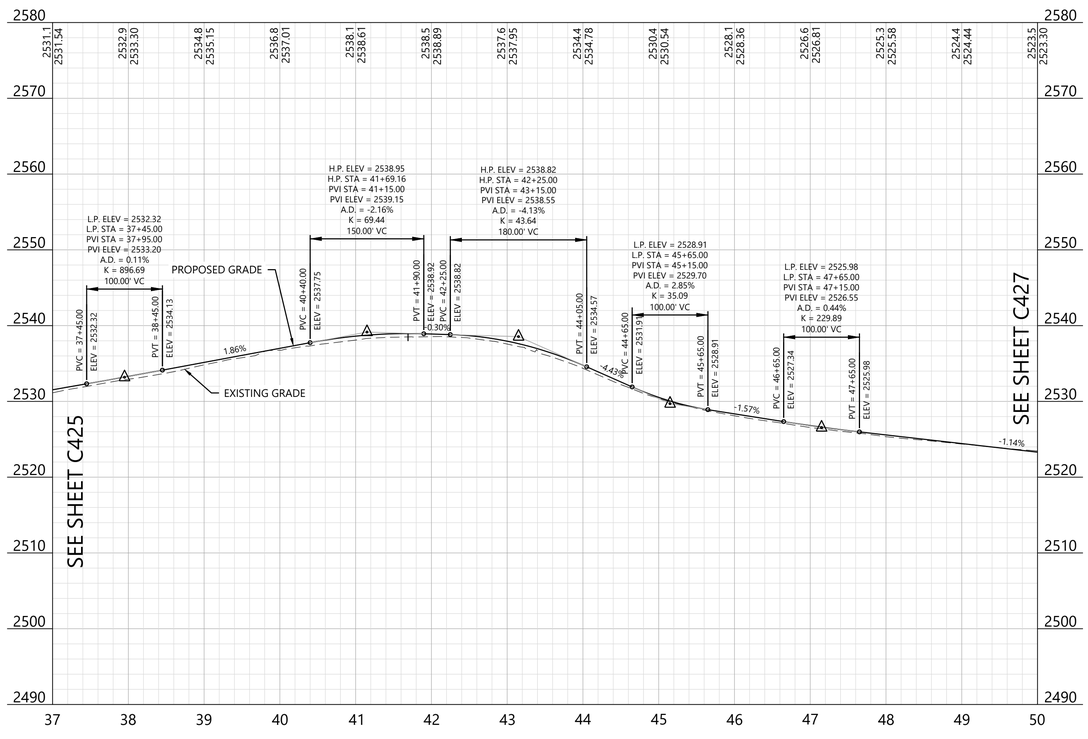
DATE: 05/07/2026

SHEET: C425

REV: B

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- RIGHT-OF-WAY LINES
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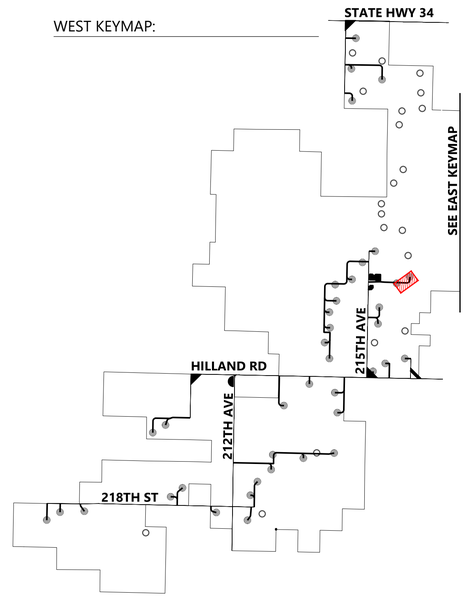
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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
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392 County Road 50
Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

Road BH - Sta. 37+00.00 to 50+00.00

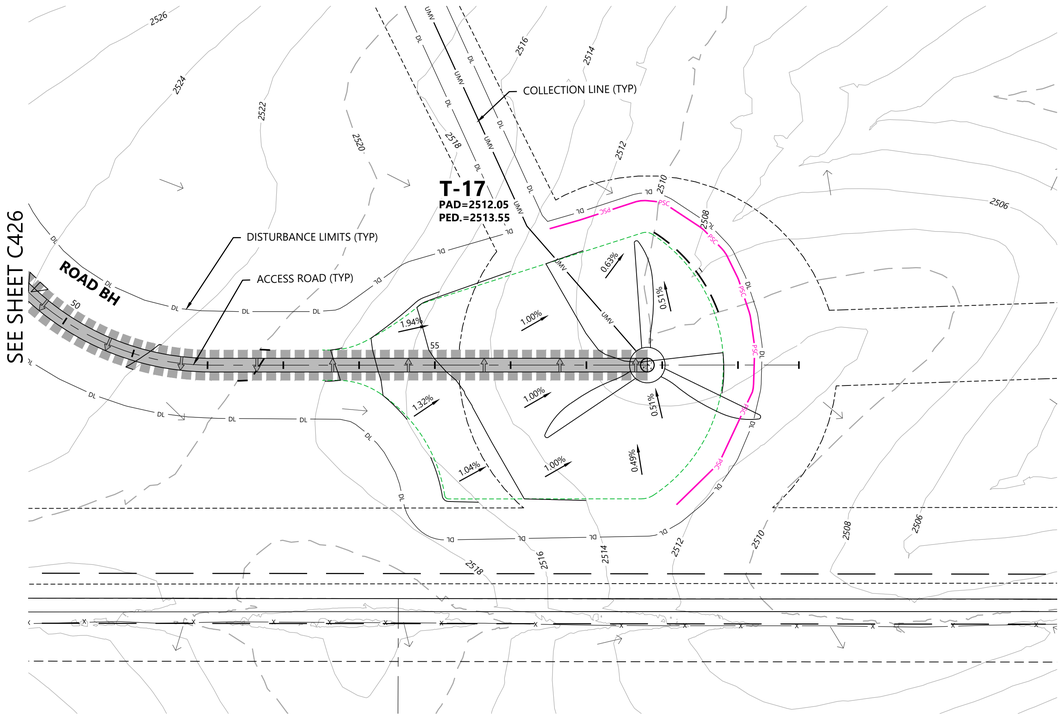
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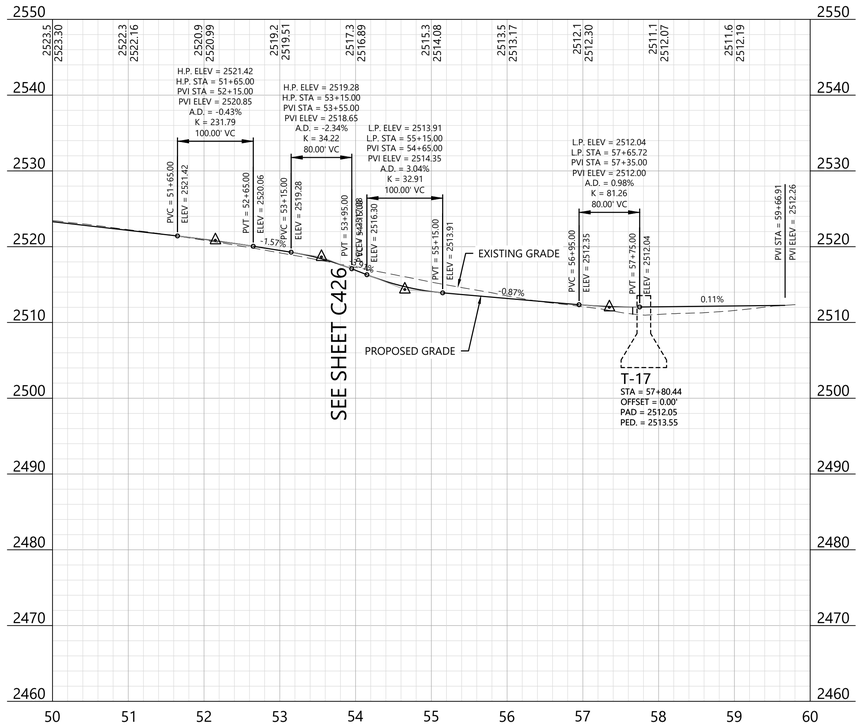
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SHEET: C426

REV: B

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LEGEND:

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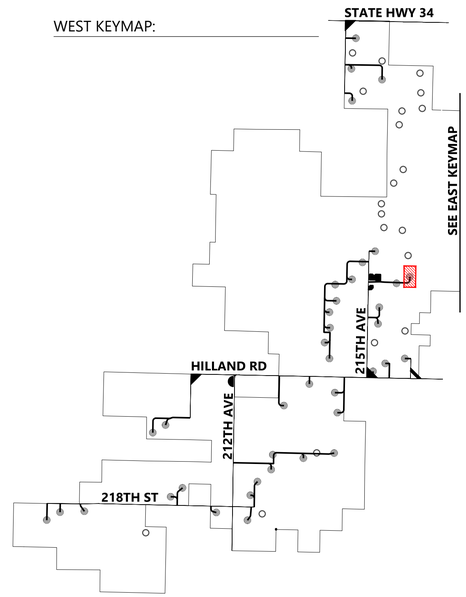
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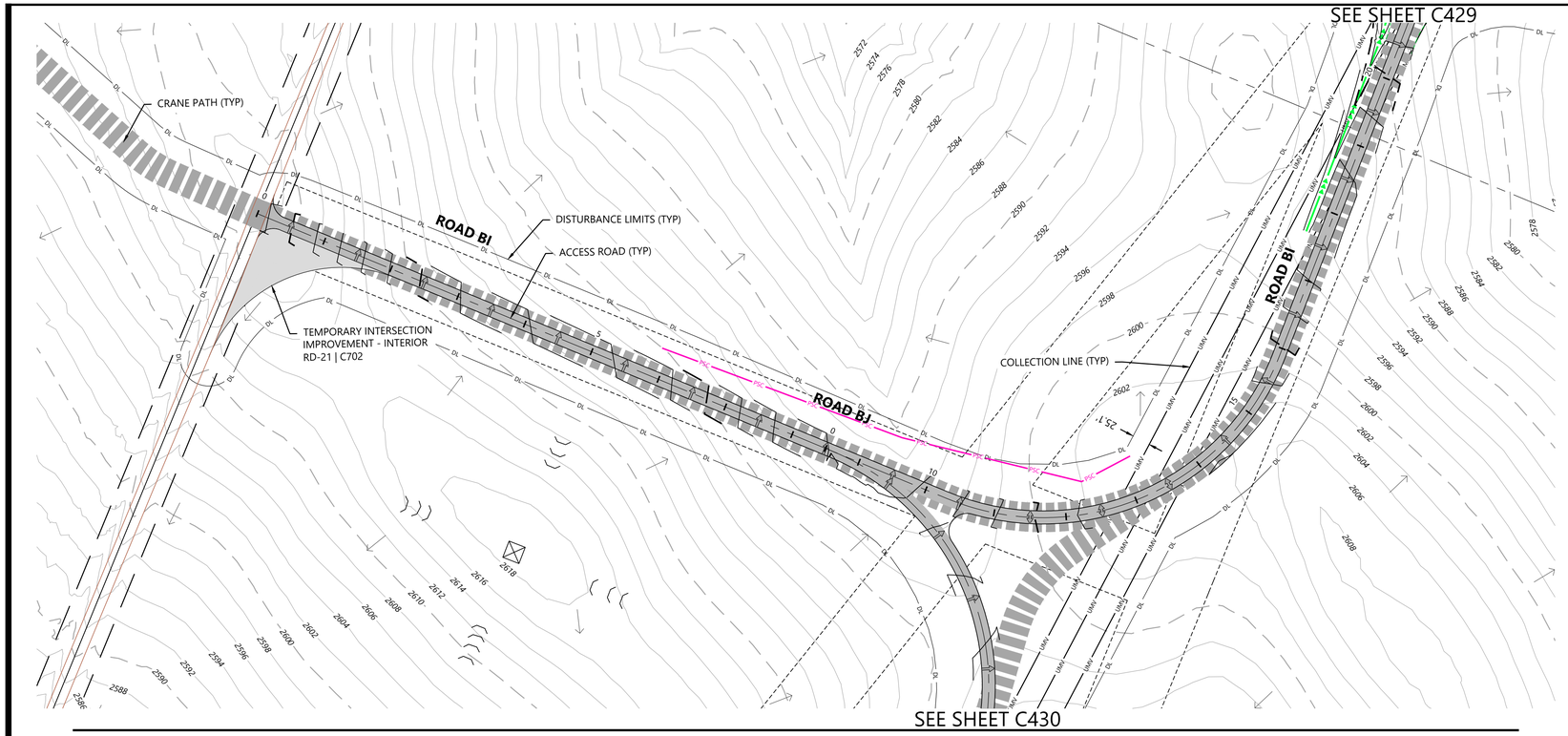
Haakon County, South Dakota

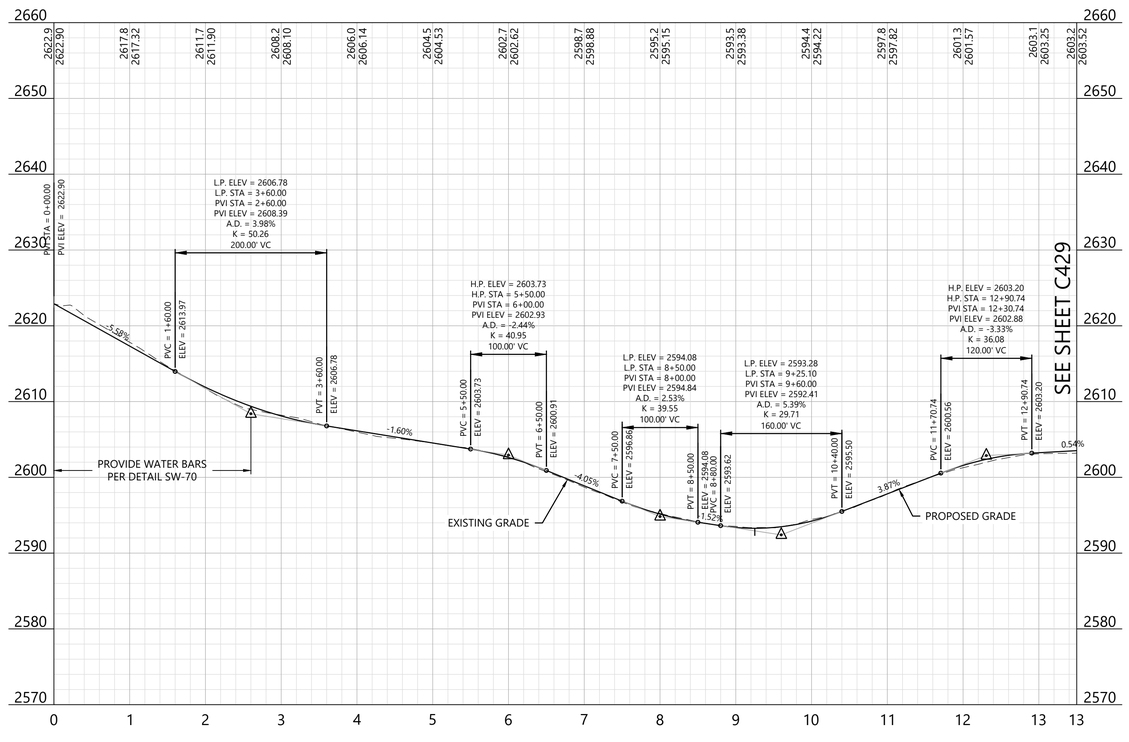
Road BH - Sta. 50+00.00 to End T-17

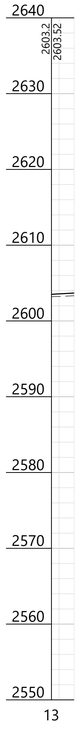
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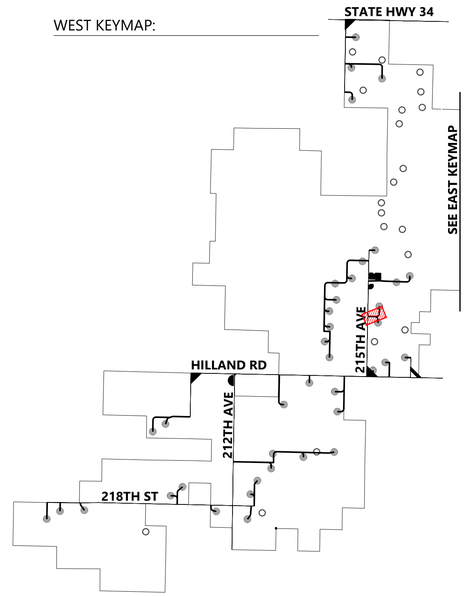
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SHEET: C427
REV: B

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- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
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- TEMPORARY AGGREGATE
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- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
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- NON-PARTICIPATING LAND
- INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
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- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road B1 - Sta. 0+00.00 to 13+50.00

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

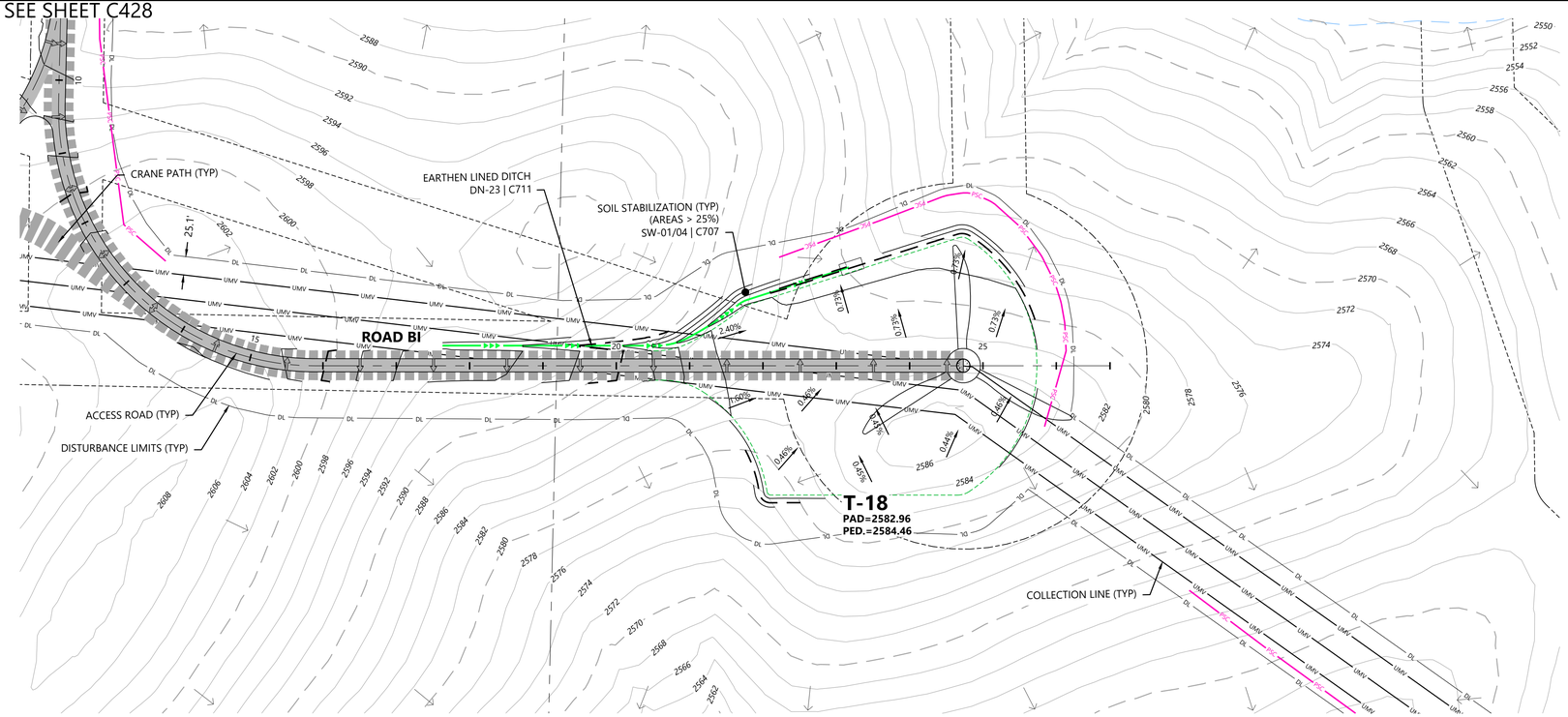
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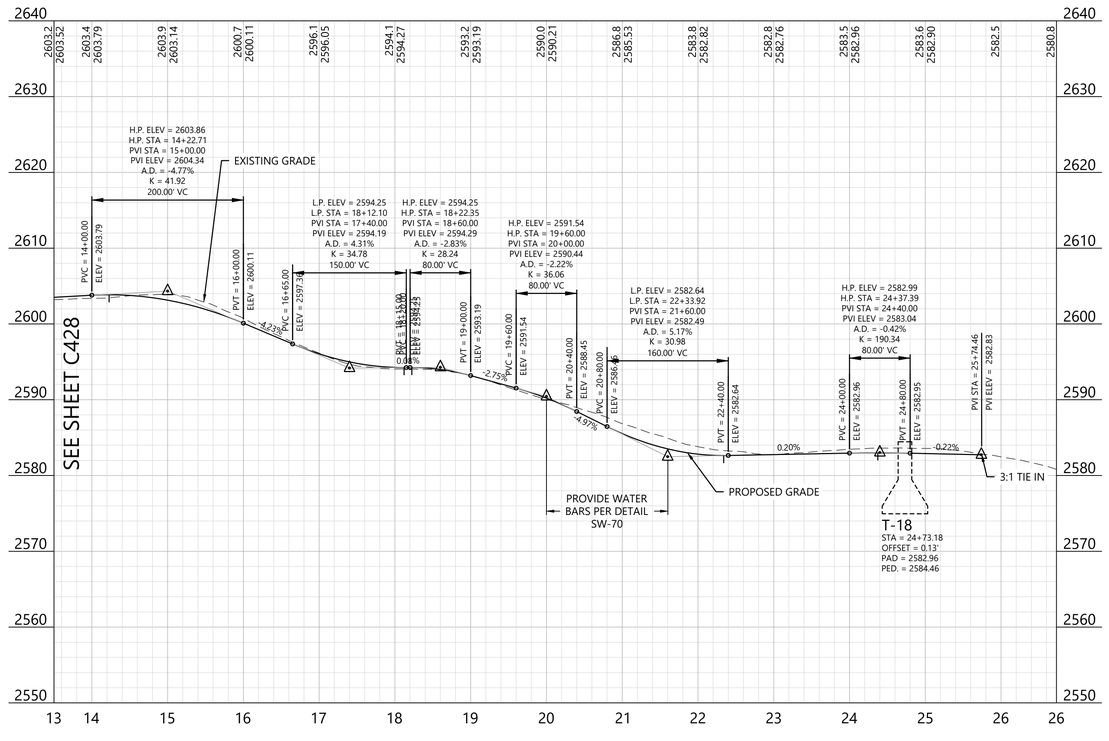
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REV: B

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SEE SHEET C428





LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
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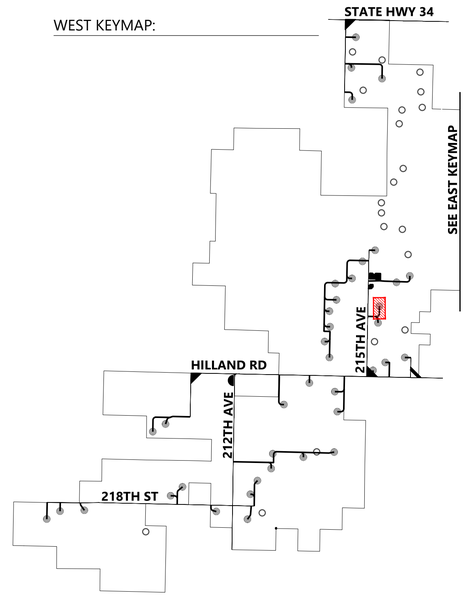
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0' 100' 200' 300'

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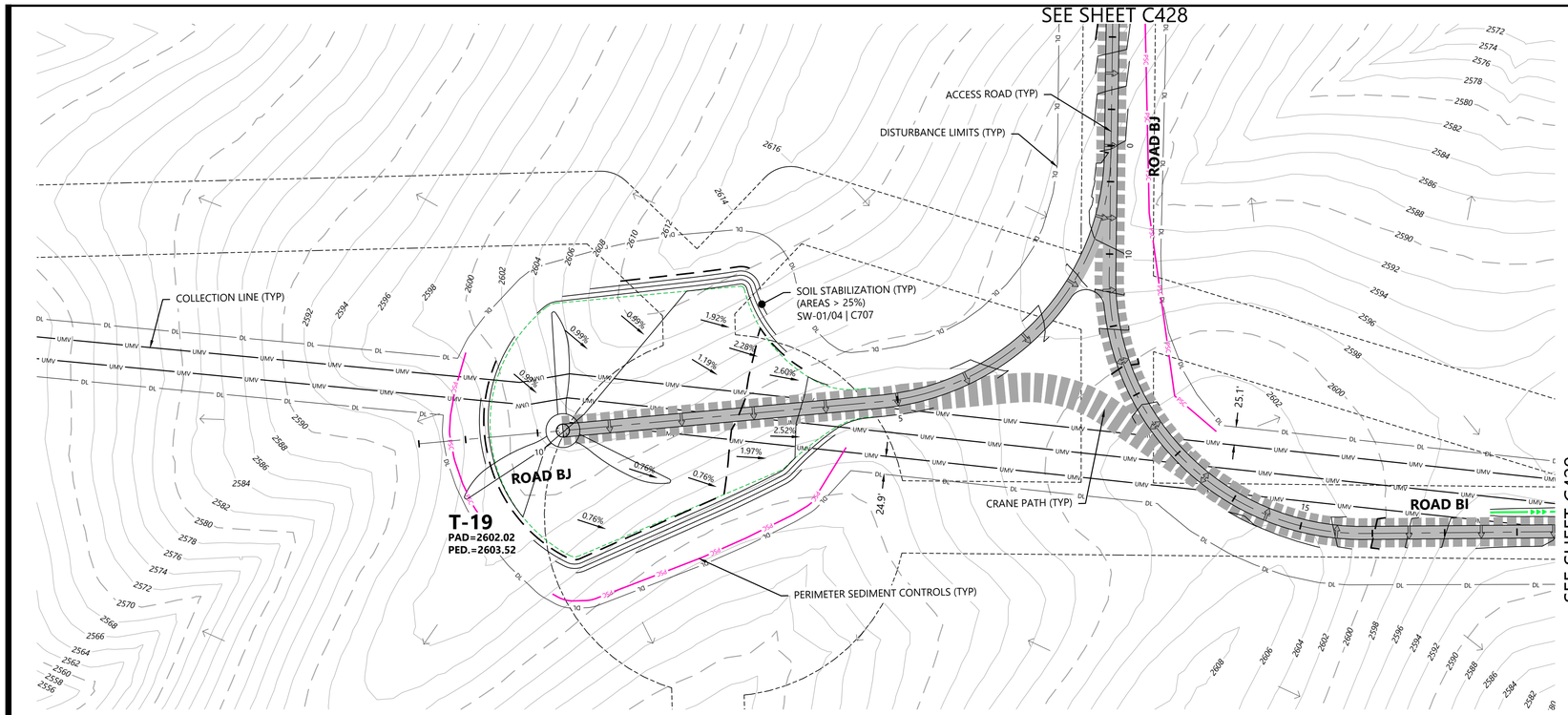
Philip Wind Project
Haakon County, South Dakota

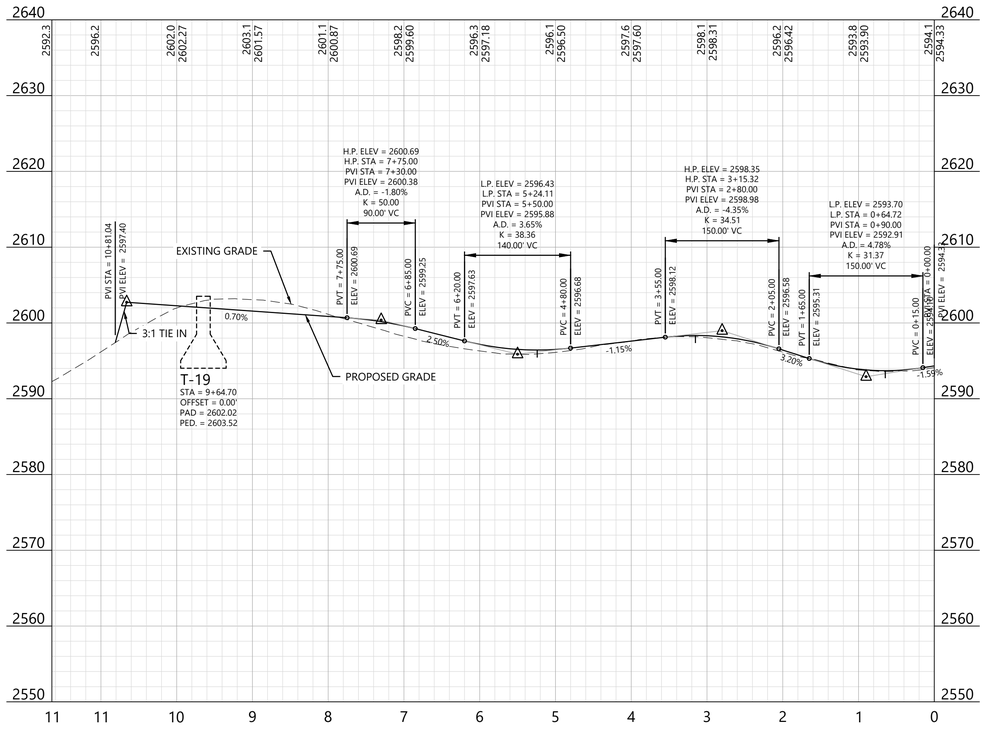
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ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C429
REV: B

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LEGEND:

EXISTING:

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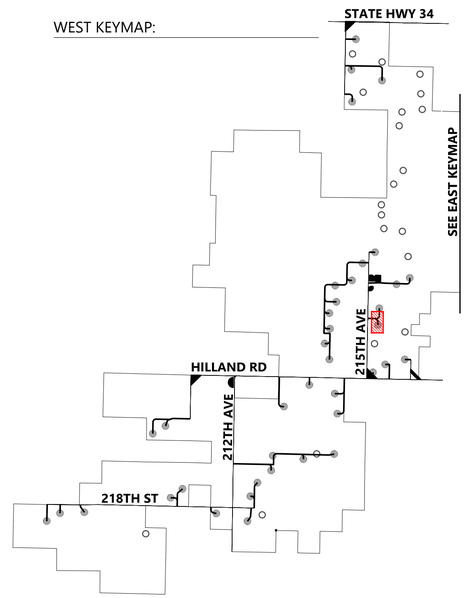
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Philip Wind Project

Haakon County, South Dakota

Road BJ - Sta. 0+00.00 to End T-19

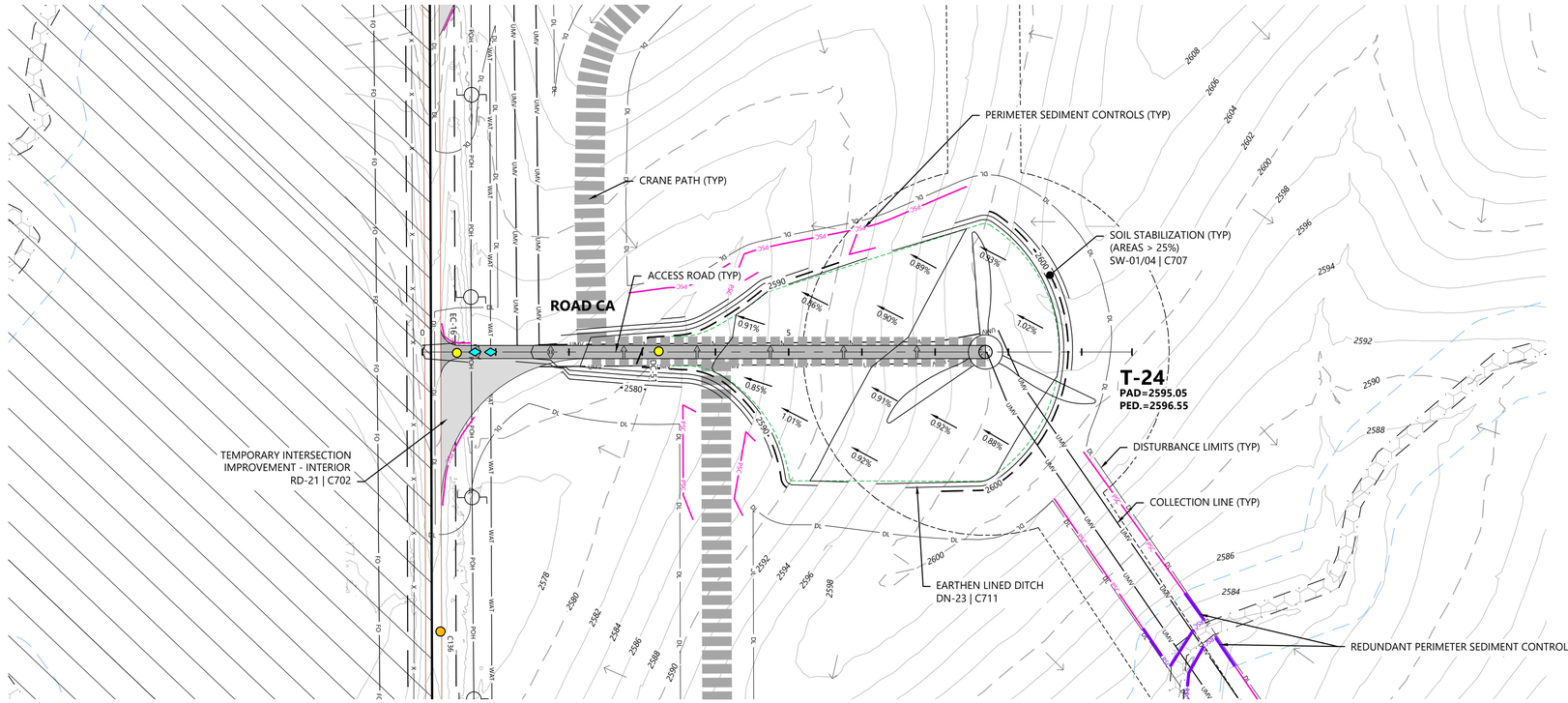
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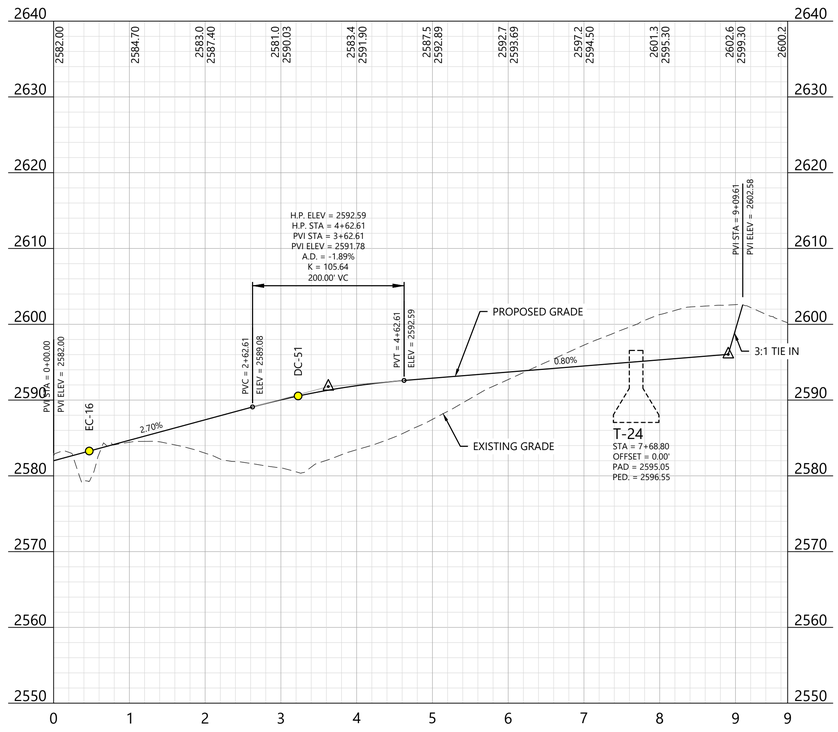
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SHEET: C430

REV: B

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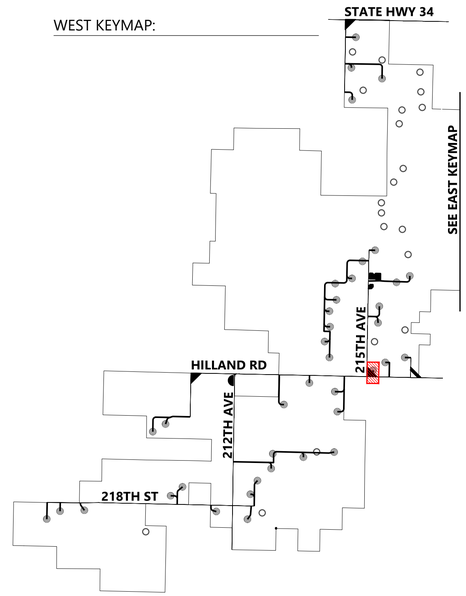
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Philip Wind Project

Haakon County, South Dakota

Road CA - Sta. 0+00.00 to End T-24

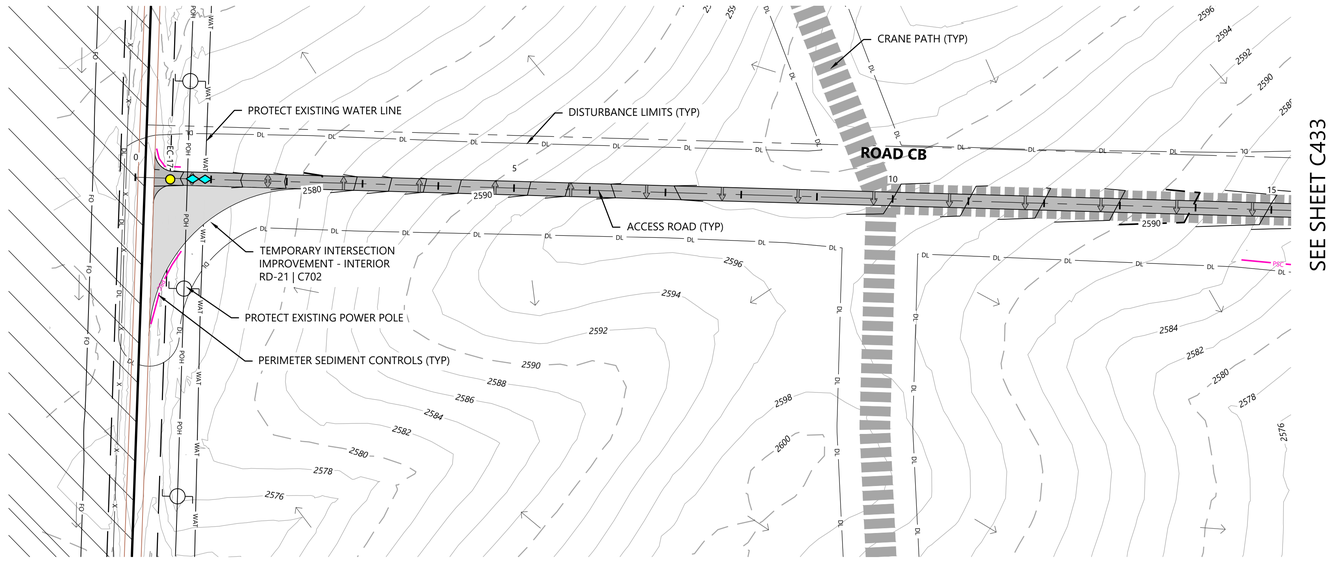
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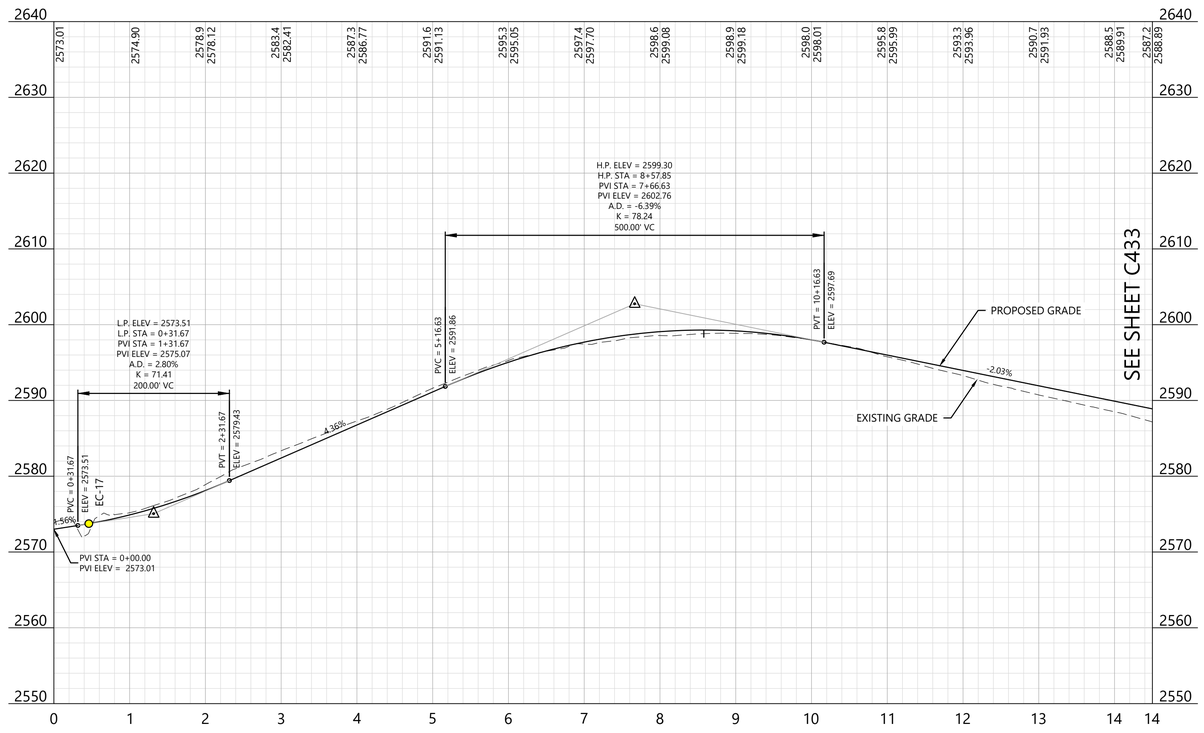
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SHEET: C431

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LEGEND:

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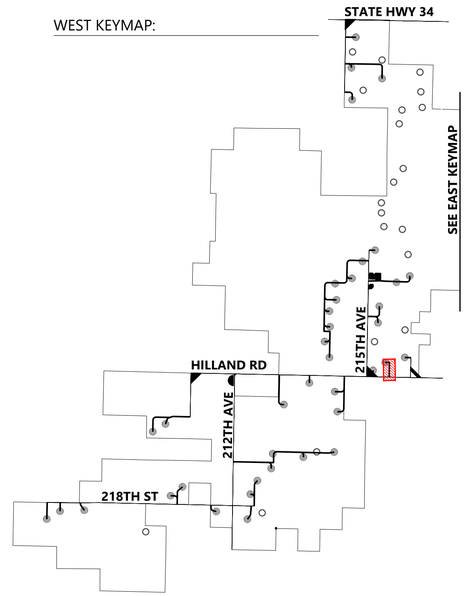
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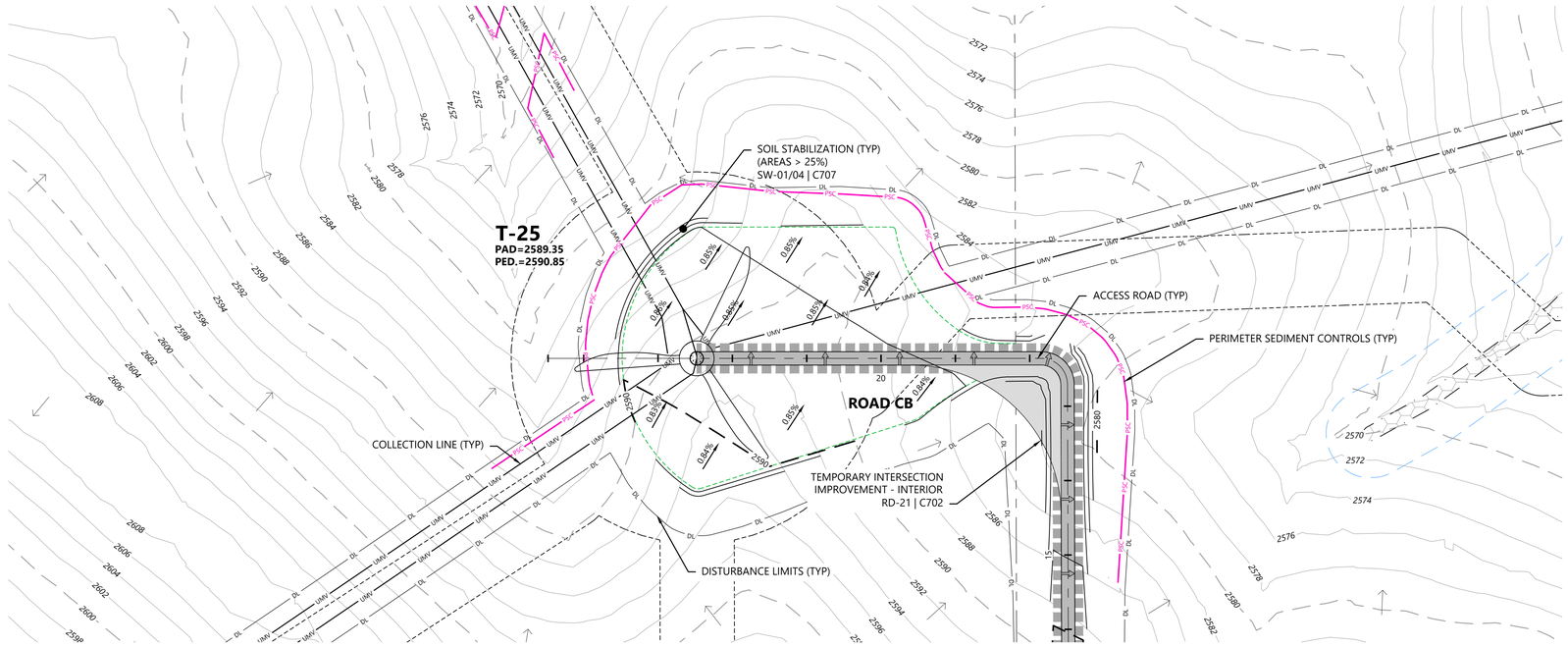
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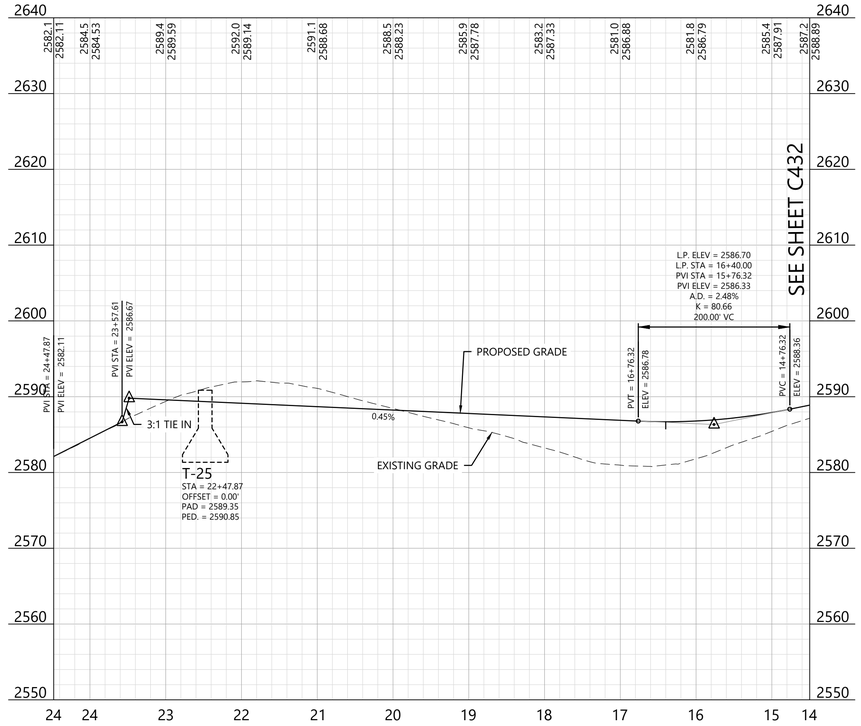
SHEET: C432

REV: B

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SEE SHEET C432



LEGEND:

EXISTING:

- SECTION LINES
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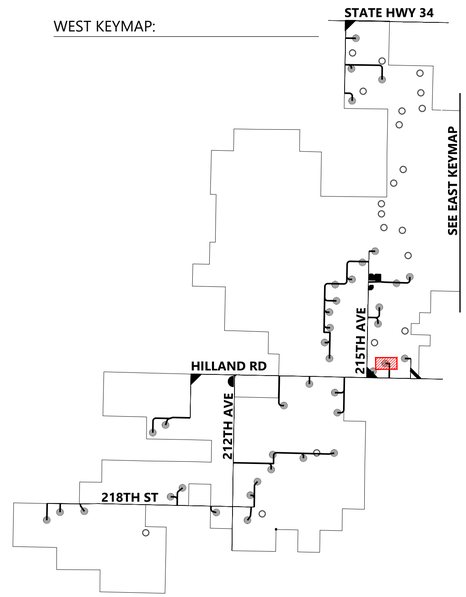
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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road CB - Sta. 15+00.00 to End T-25

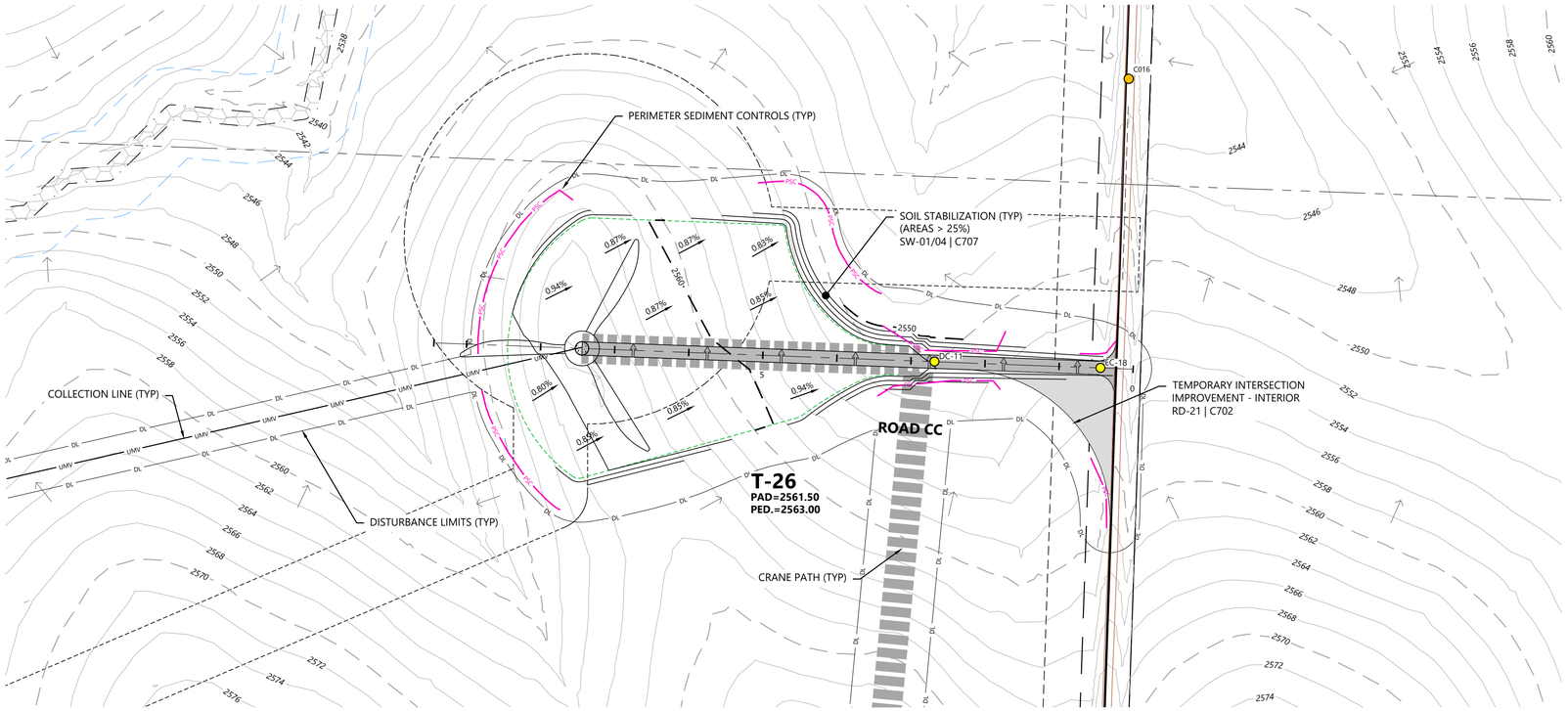
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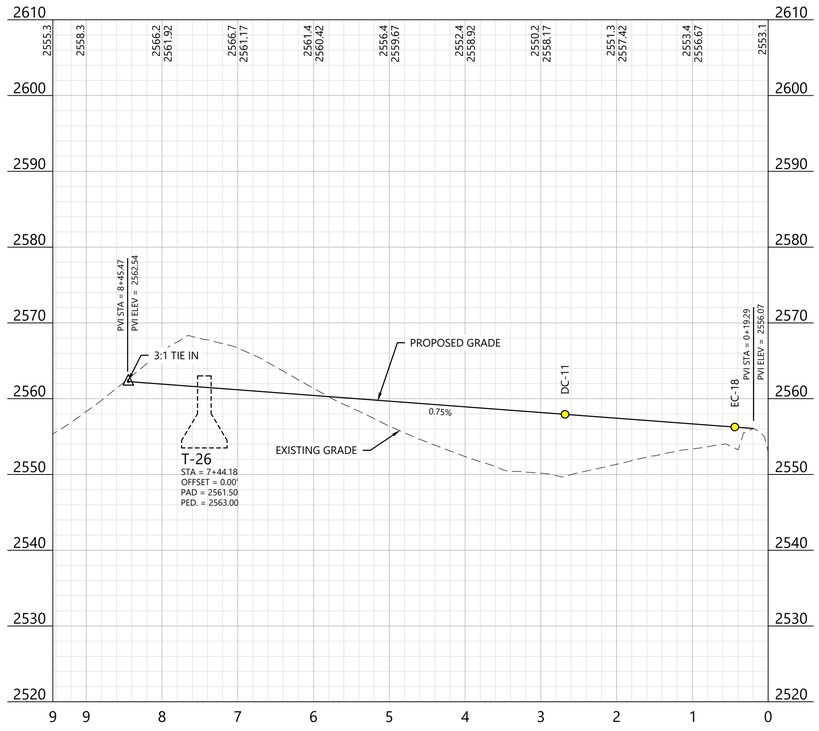
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SHEET: C433

REV: B

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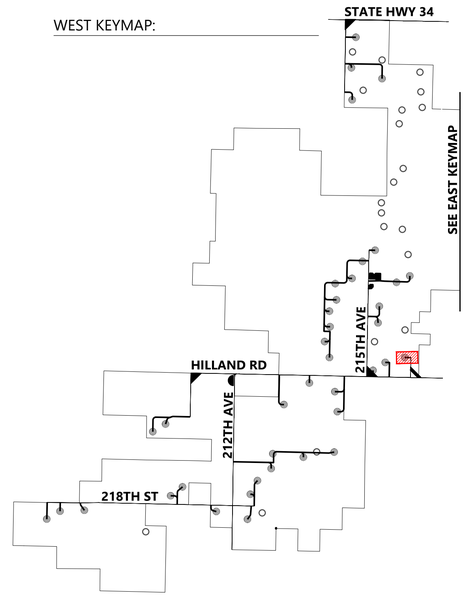
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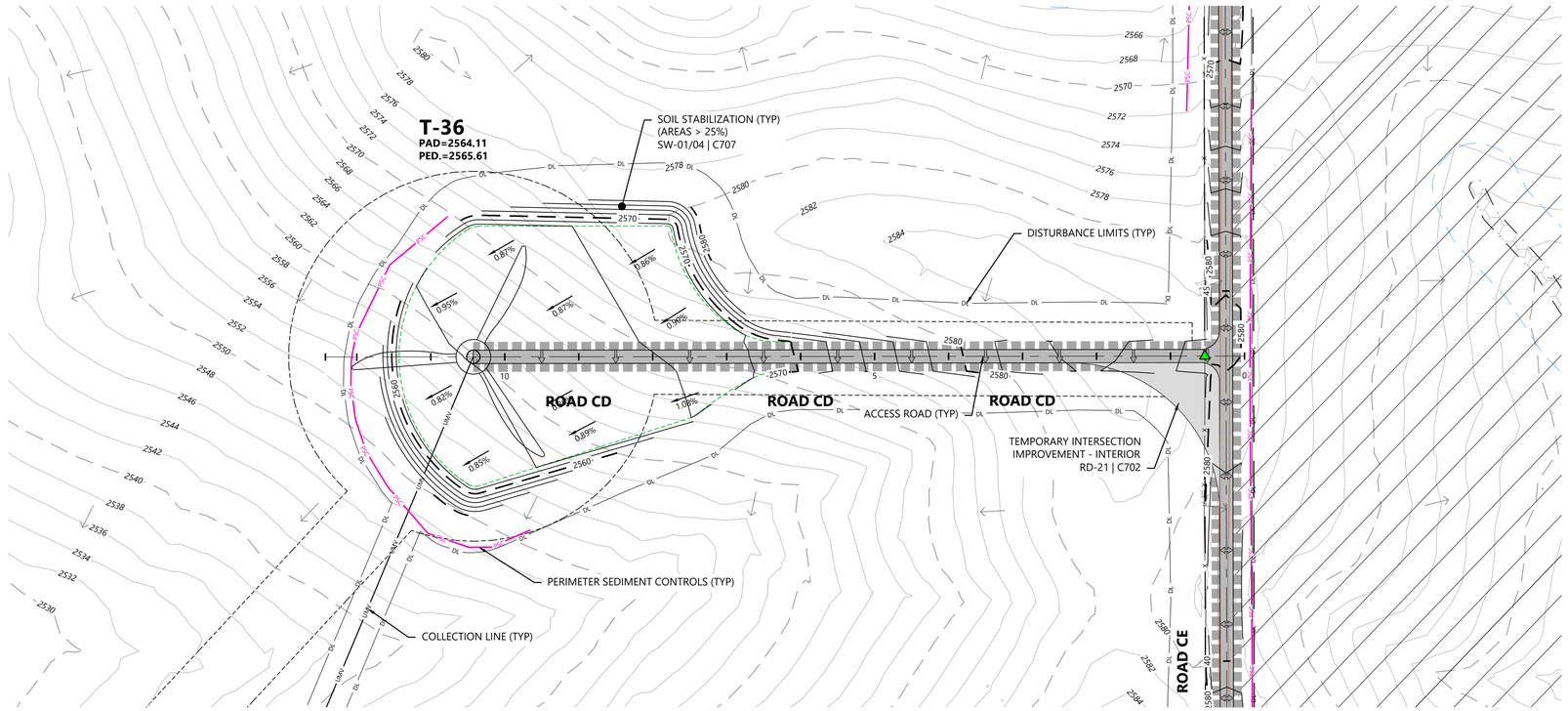
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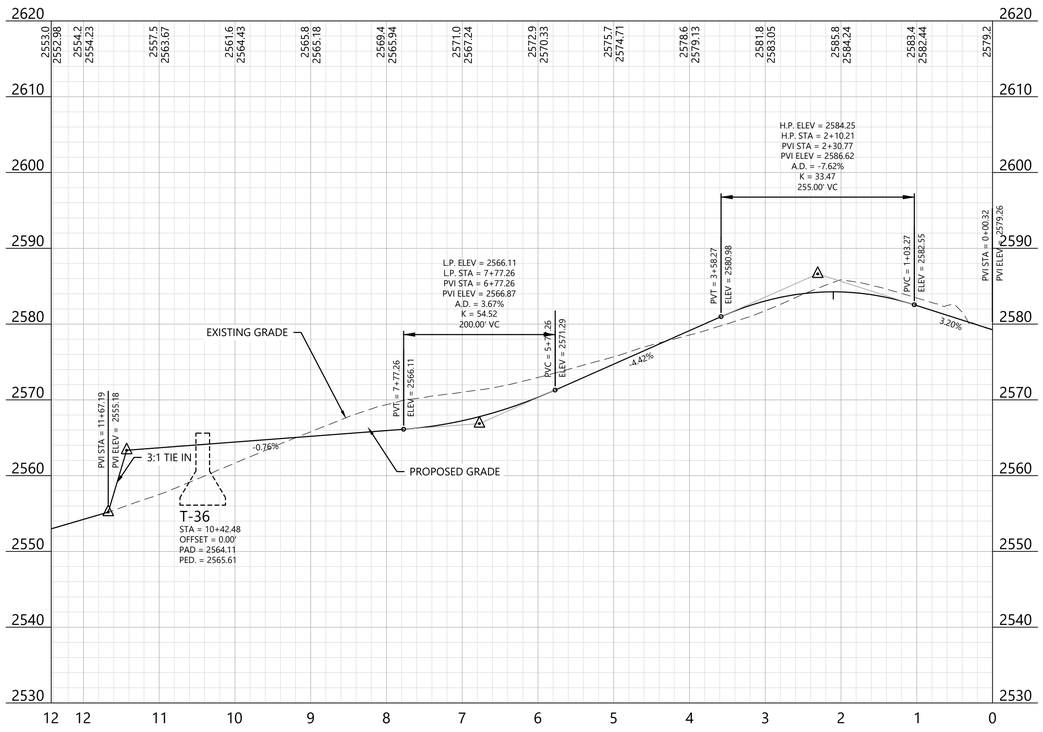
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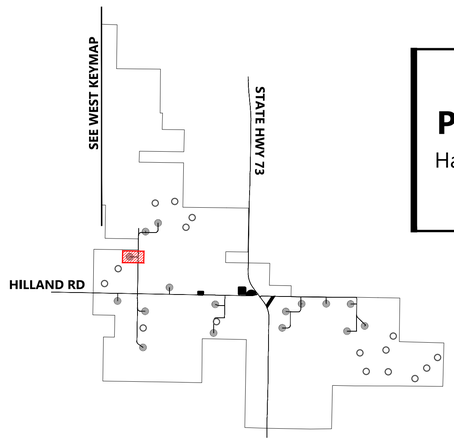
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Road CD - Sta. 0+00.00 to End T-36

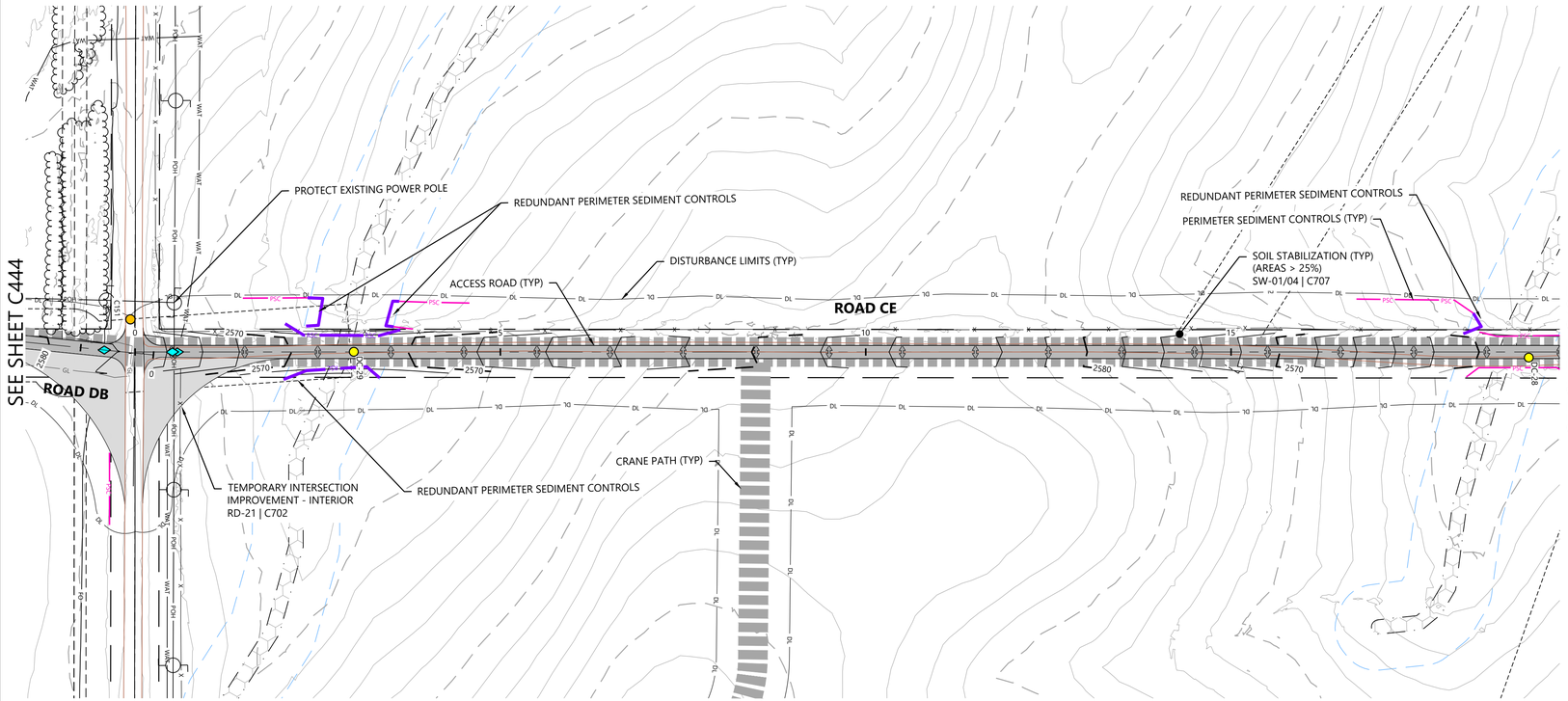
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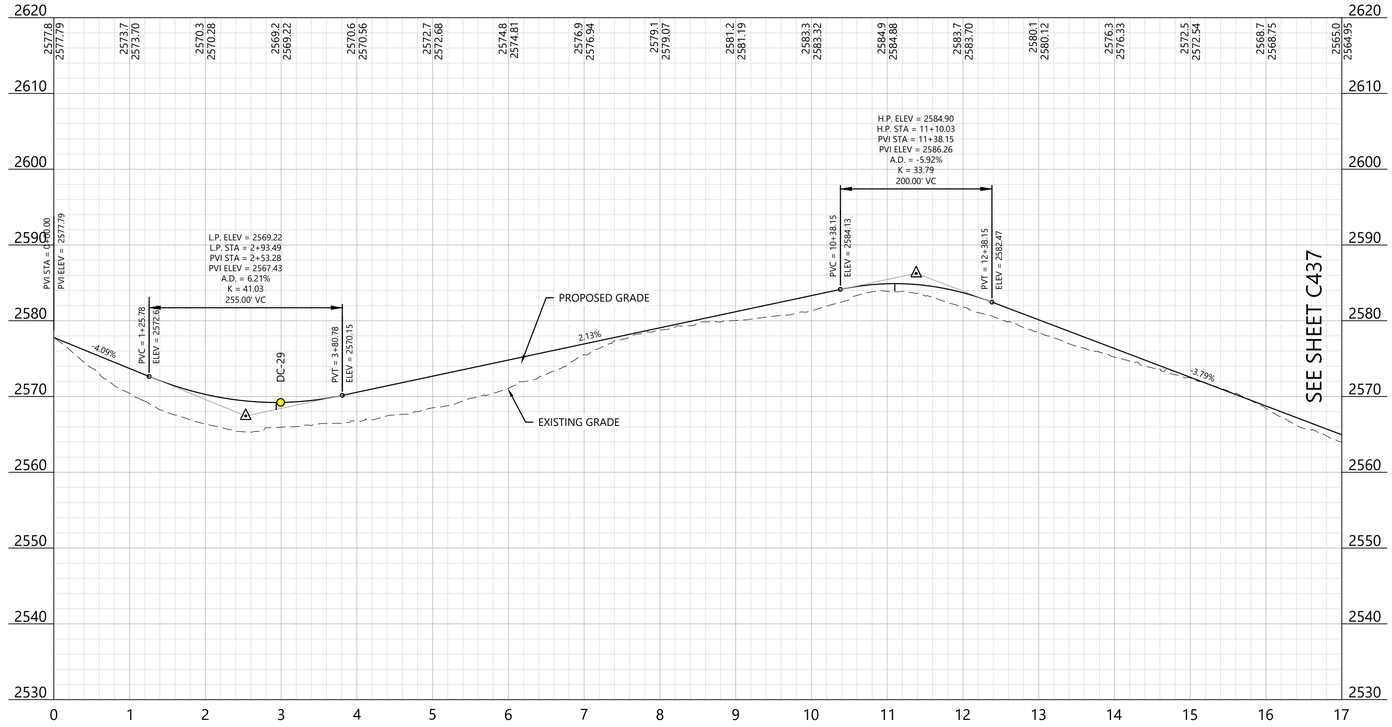
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SHEET: C435

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LEGEND:

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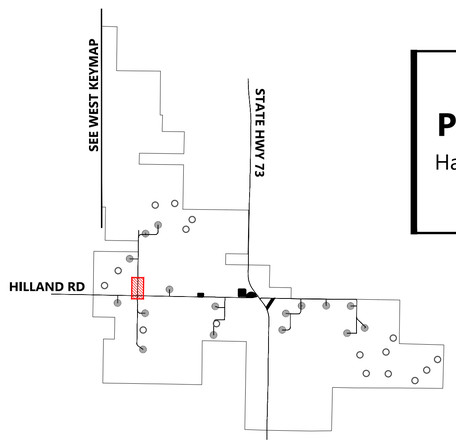
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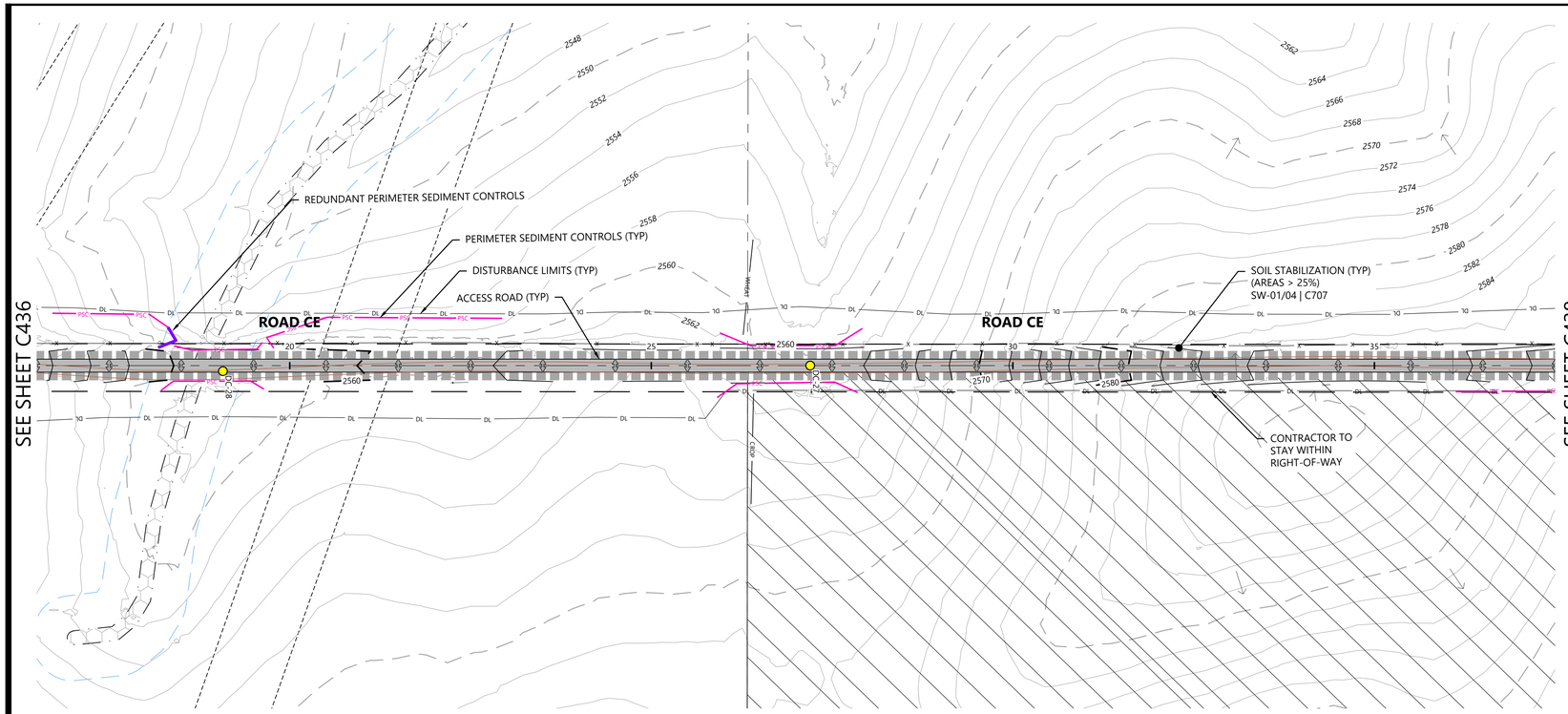
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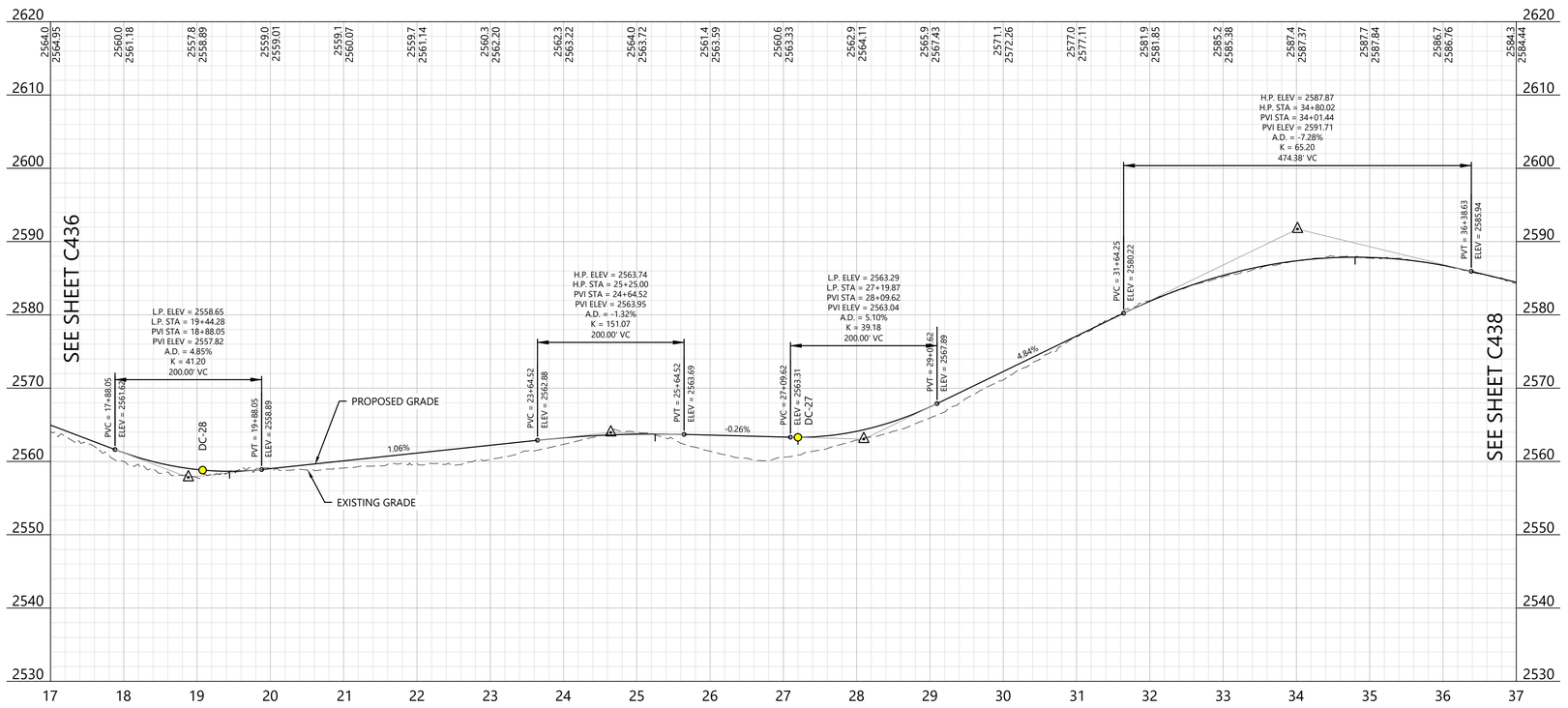
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REV: B

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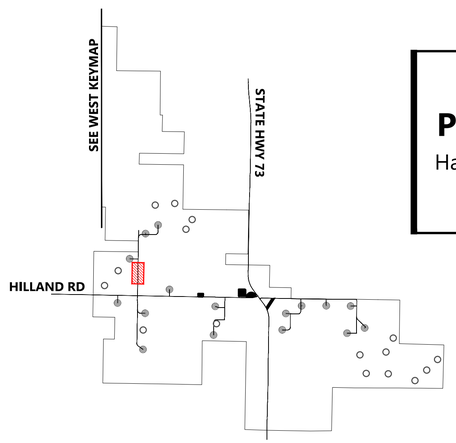
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Road CE - Sta.
17+00.00 to 37+00.00

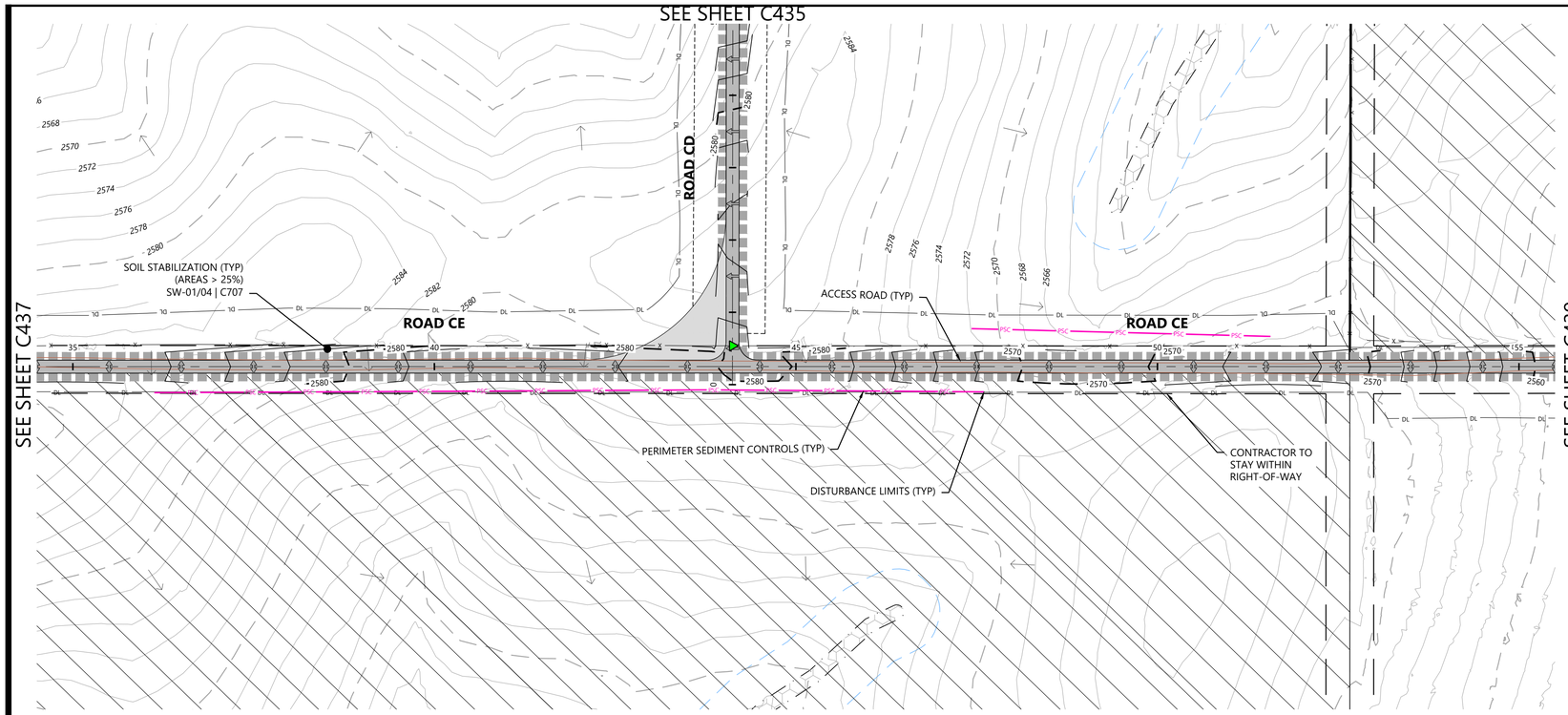
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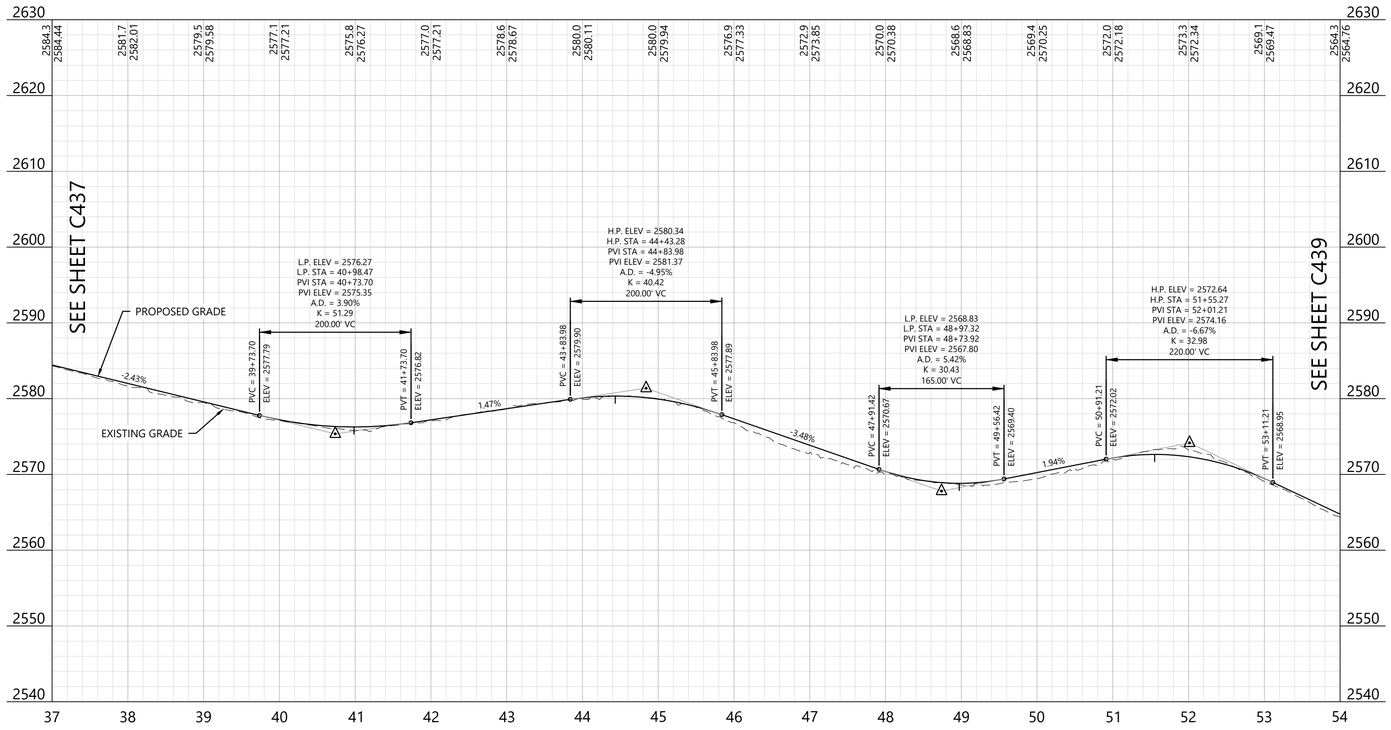
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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
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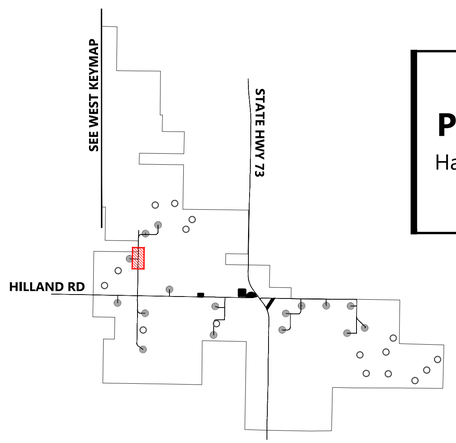
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SOUTH DAKOTA
06/17/26

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Invenergy
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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road CE - Sta.
37+00.00 to 54+00.00

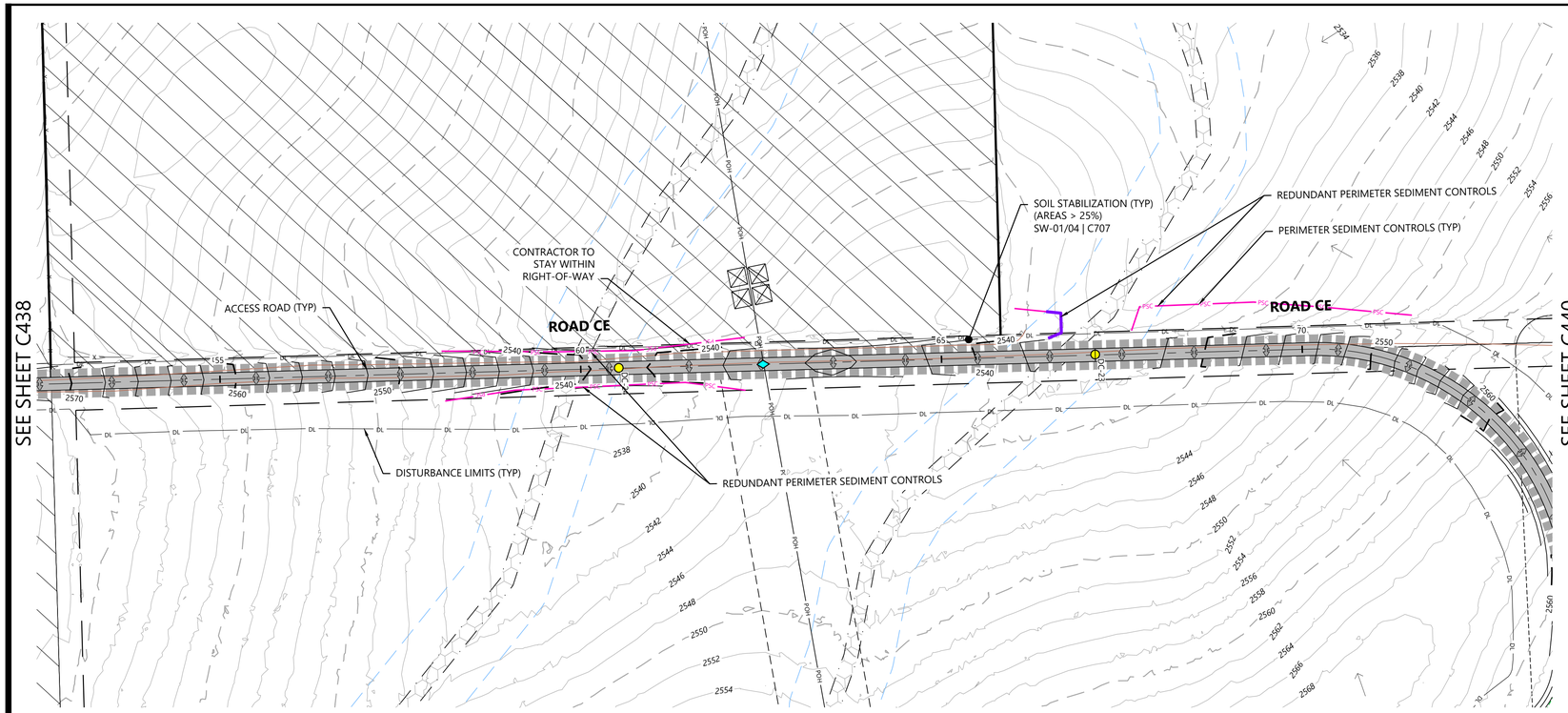
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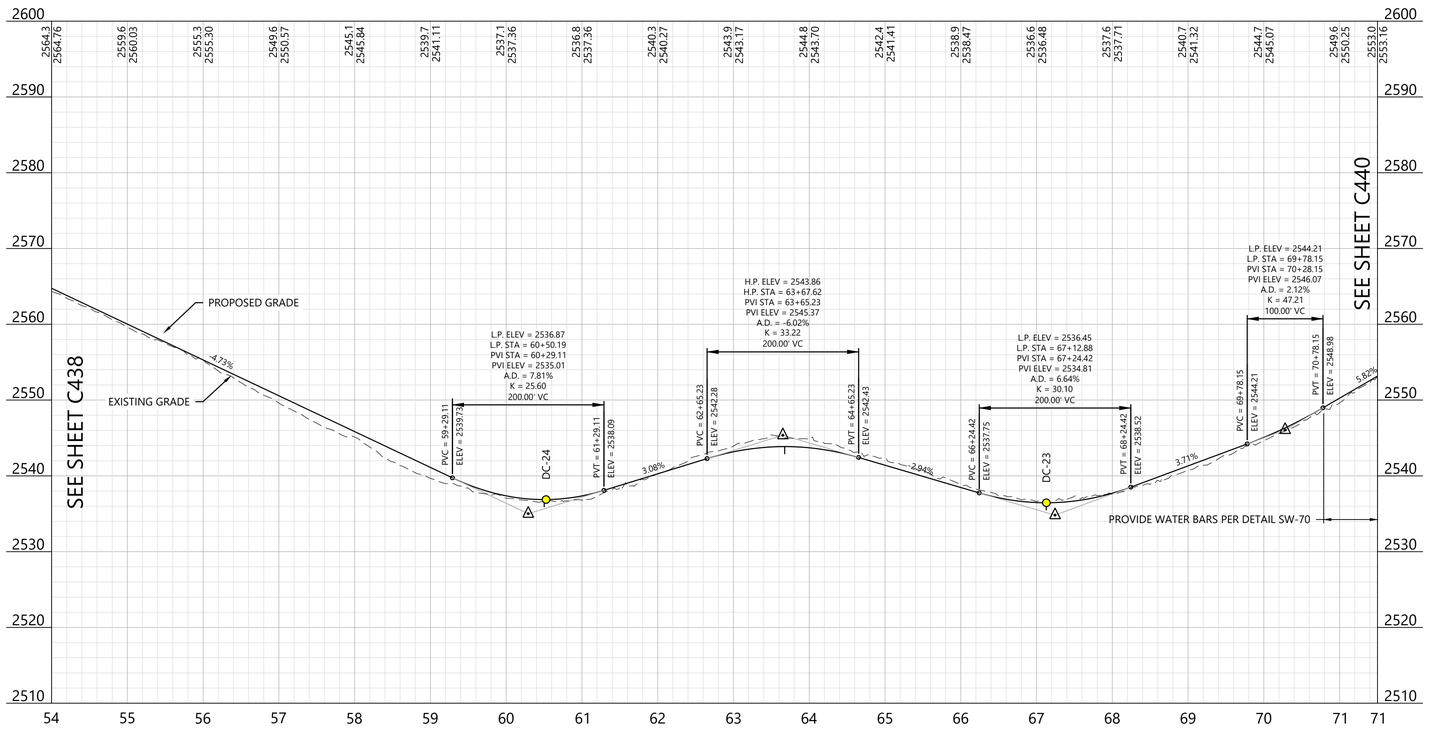
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REV: B

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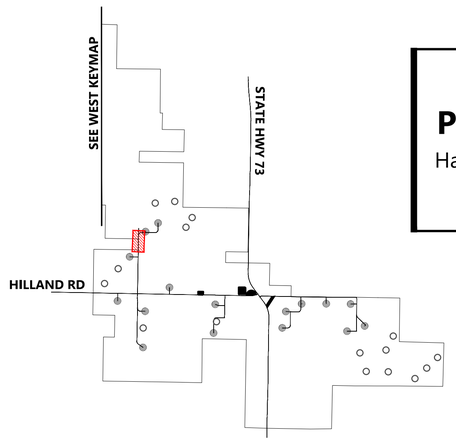
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Haakon County, South Dakota

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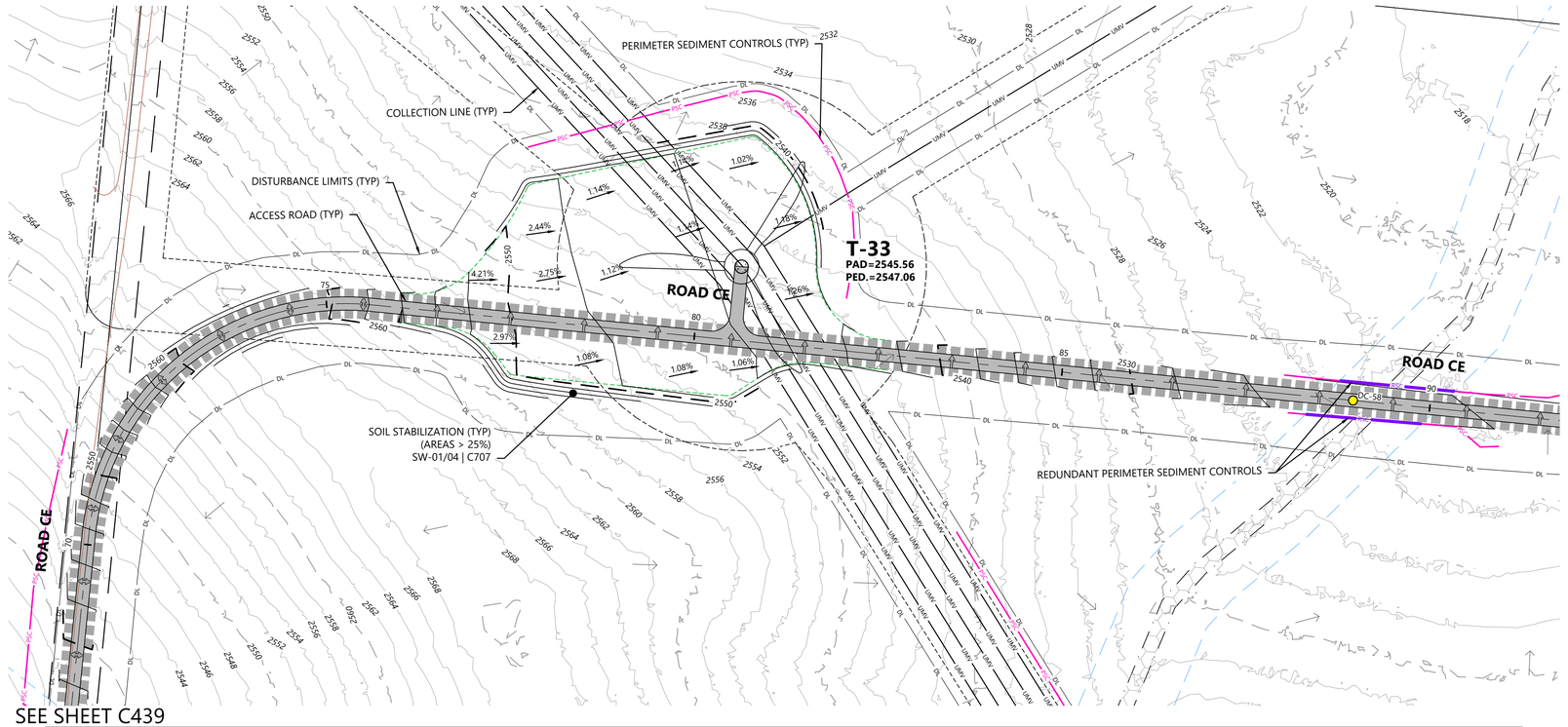
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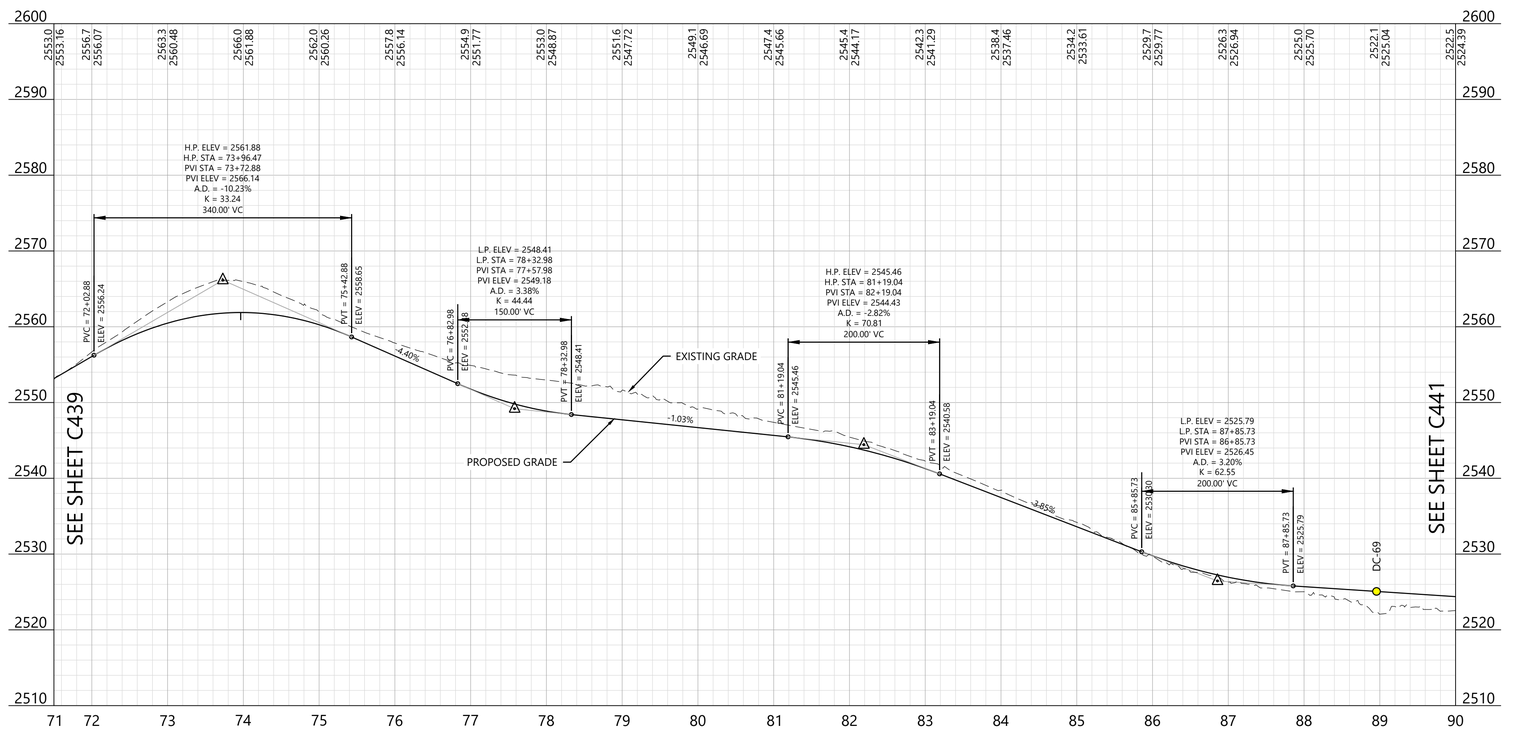
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SHEET: C439

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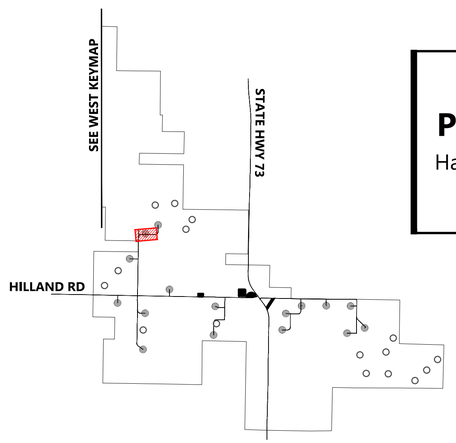
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DAVID KELESHIAN
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road CE - Sta. 71+50.00 to 90+00.00
T-33

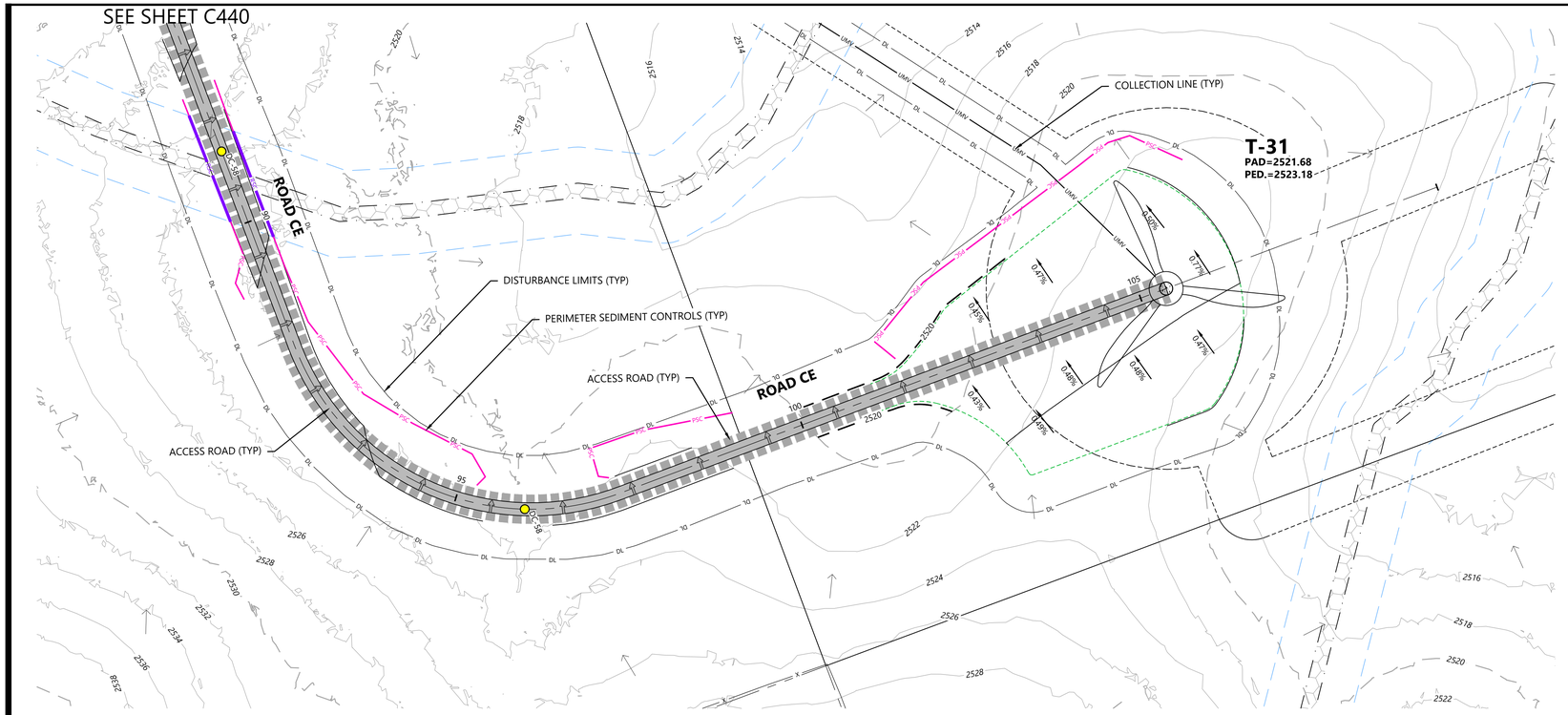
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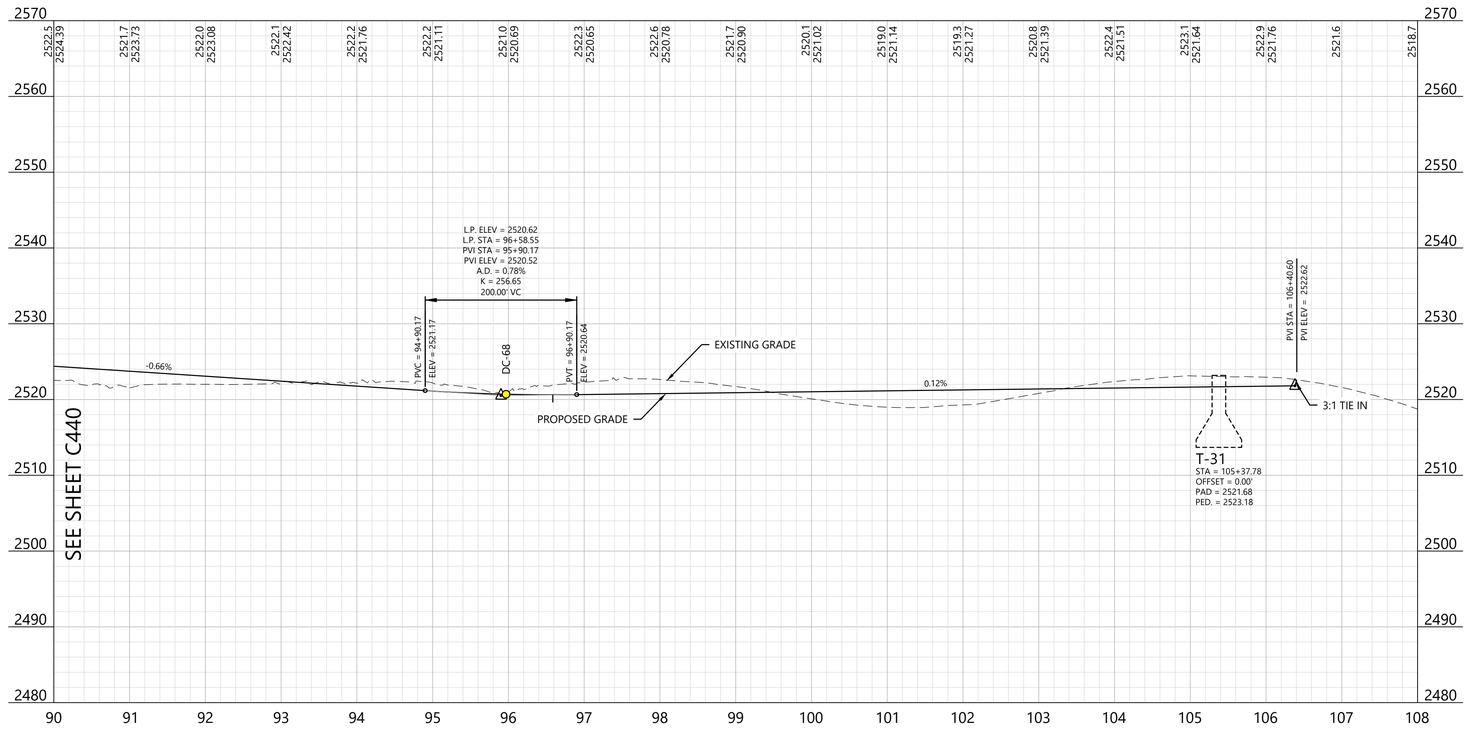
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REV: B

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LEGEND:

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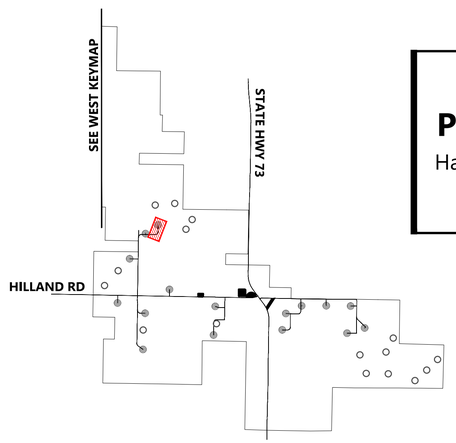
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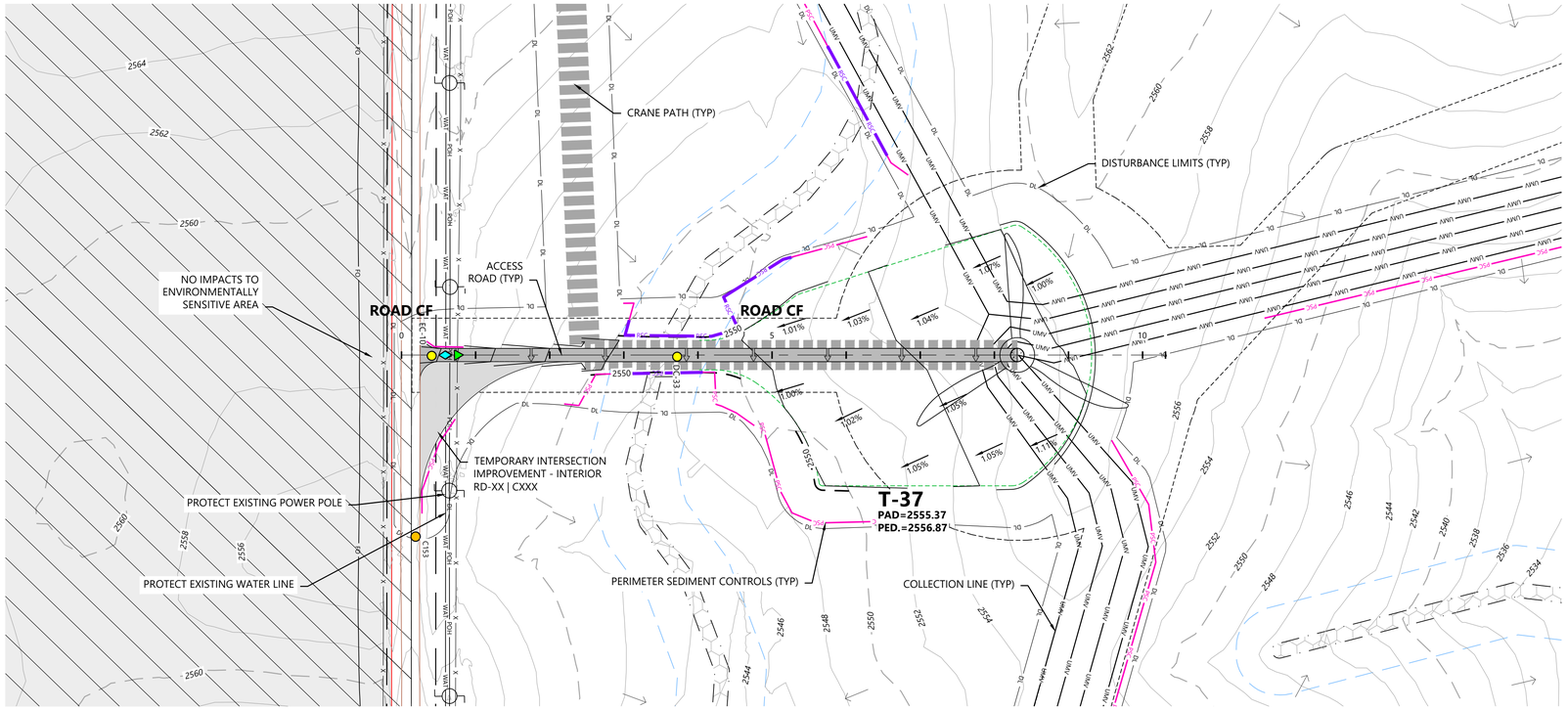
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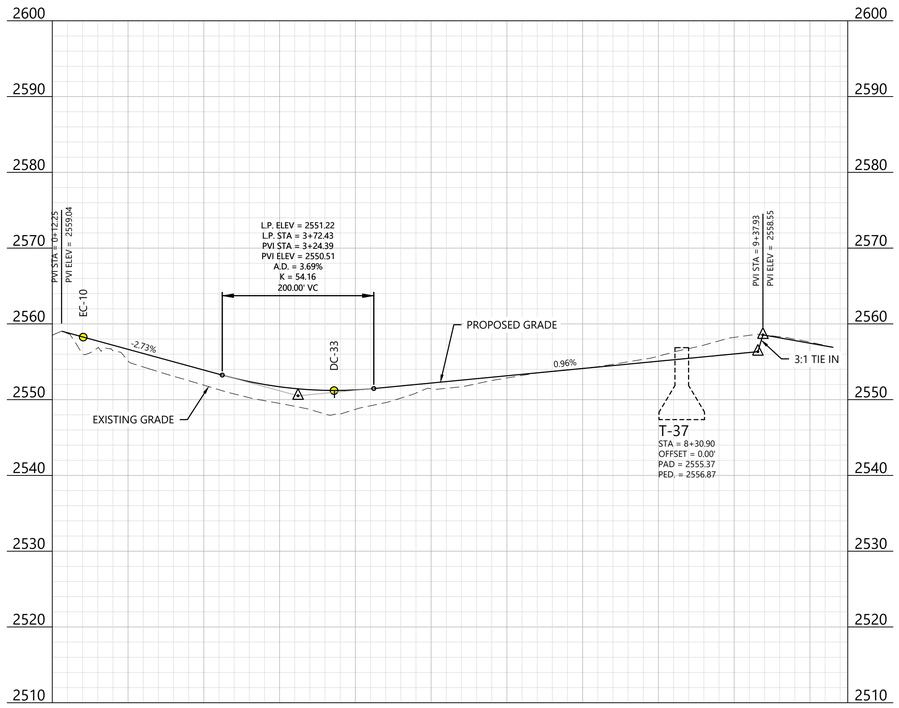
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REV: B

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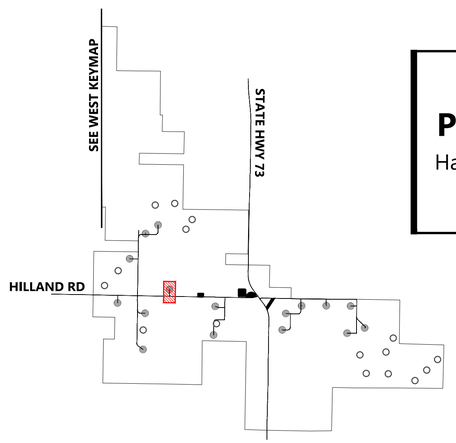
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EAST KEYMAP:



Westwood

Phone (281) 883-0103
Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

Road CF - Sta. 0+00.00 to End T-37

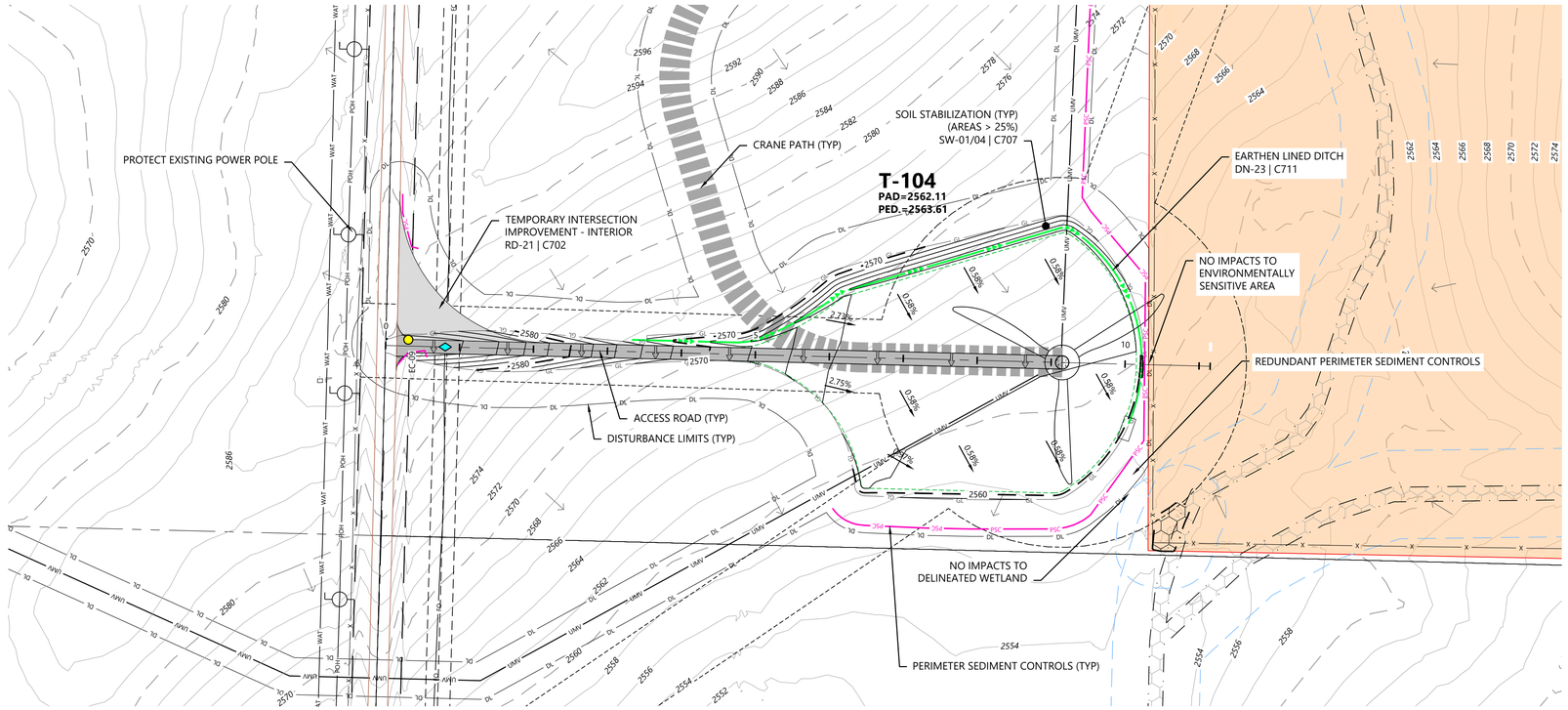
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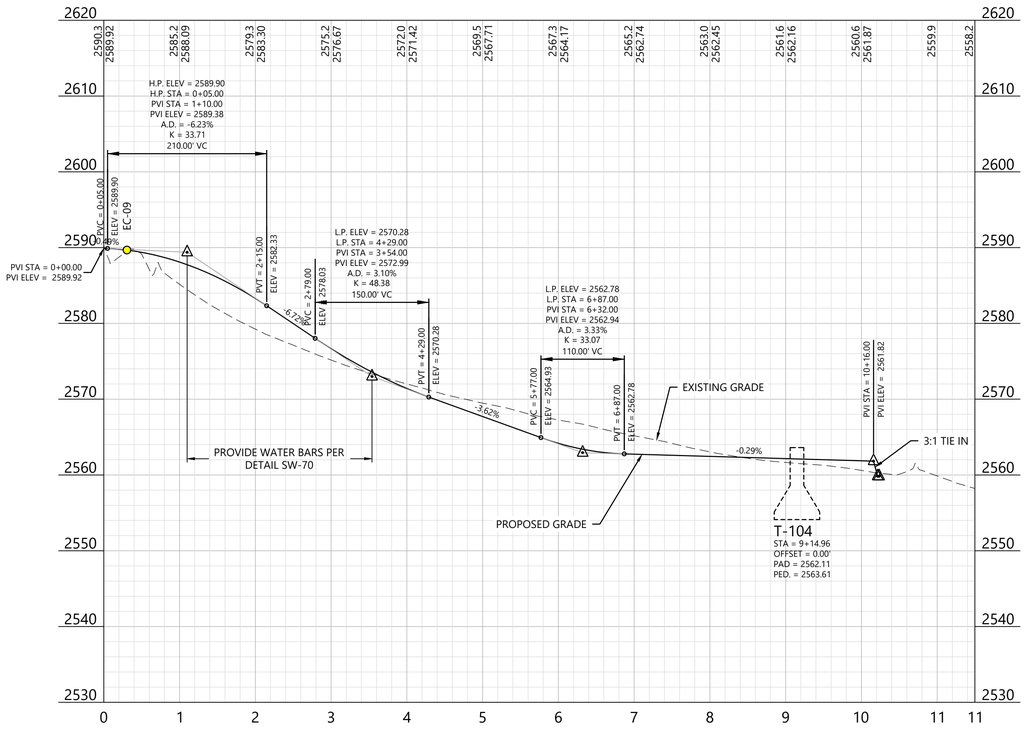
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SHEET: C442

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
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- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UNDERGROUND COLLECTION
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- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
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- PROJECT FACILITIES

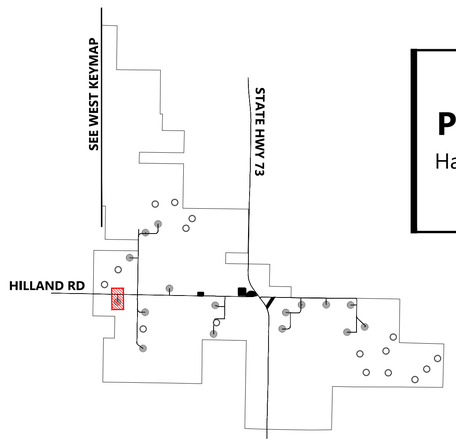
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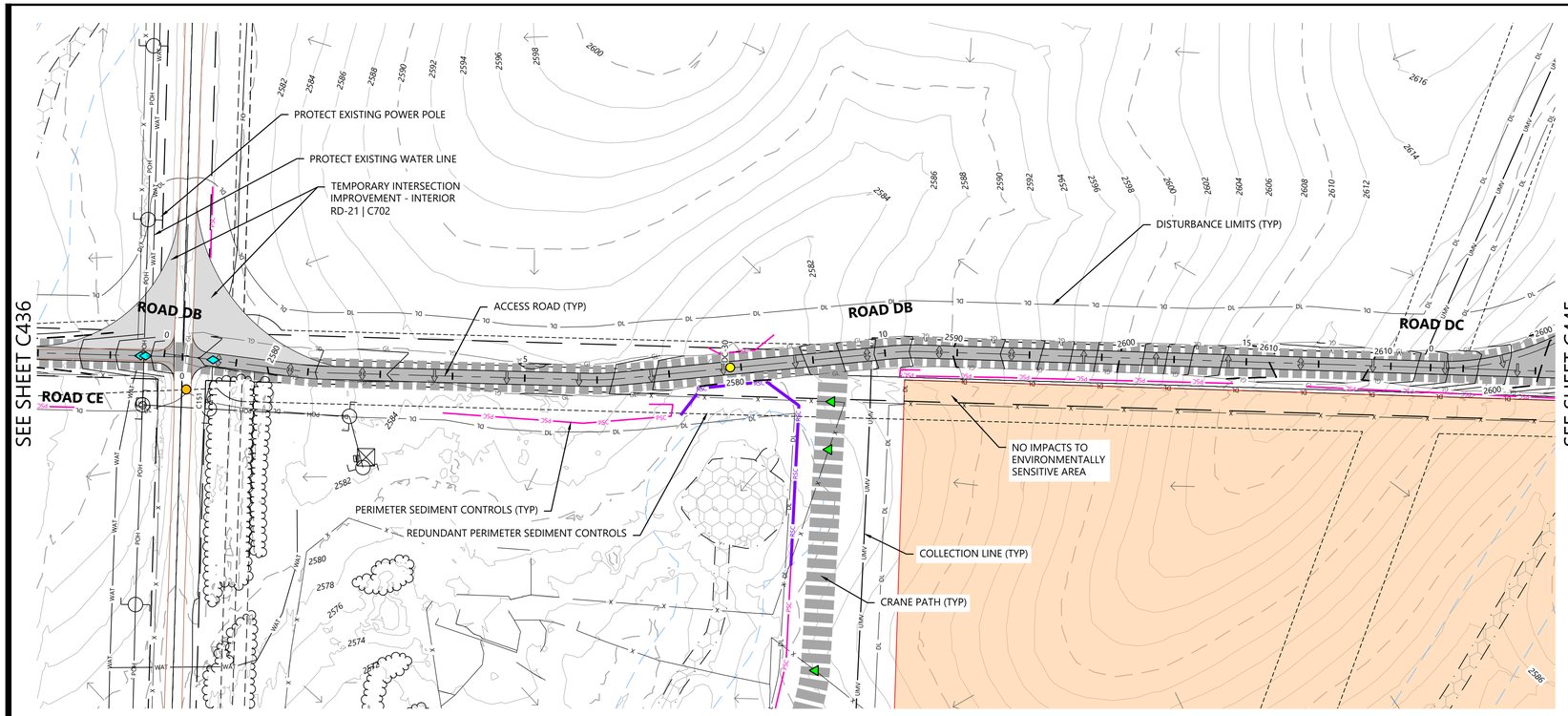
Philip Wind Project
Haakon County, South Dakota

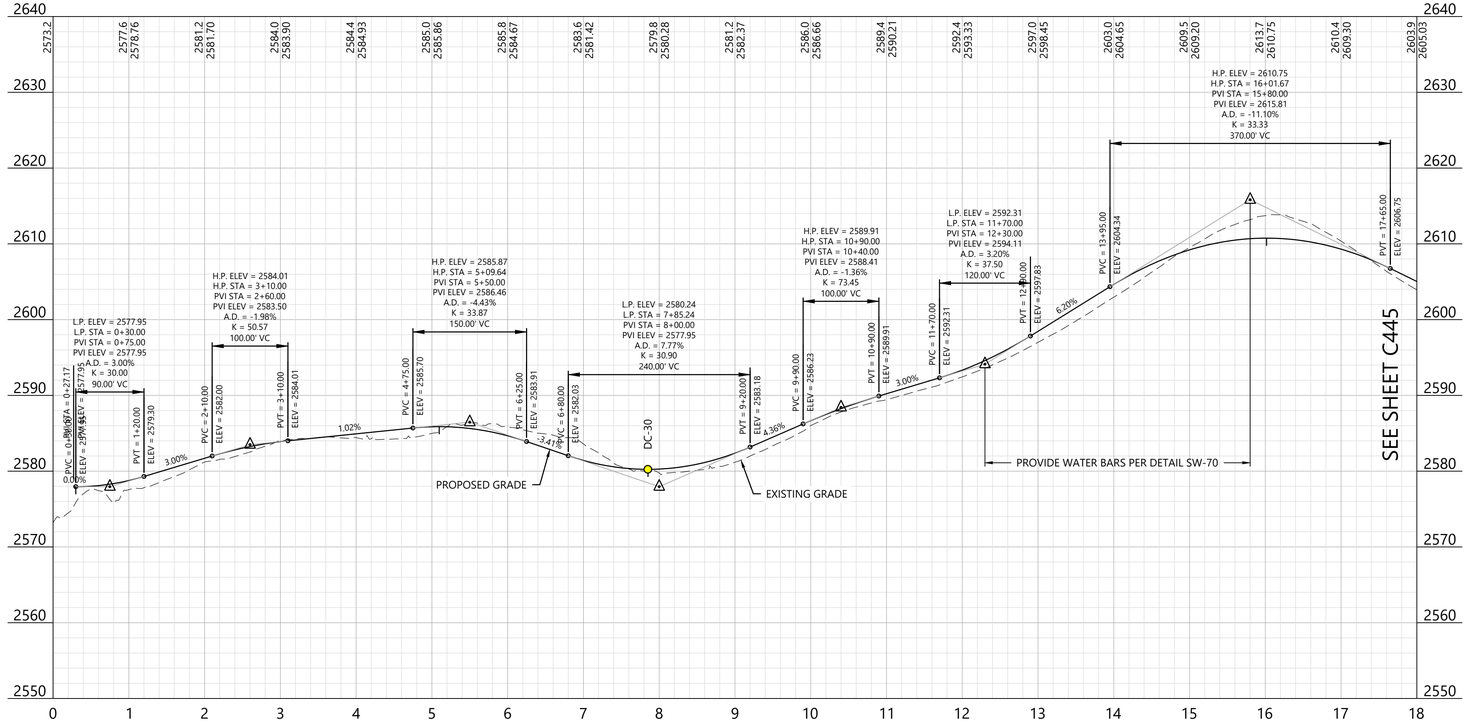
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ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C443
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
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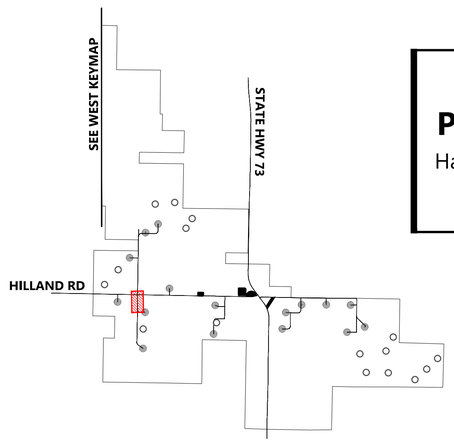
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Philip Wind Project

Haakon County, South Dakota

Road DB - Sta. 0+00.00 to 18+00.00

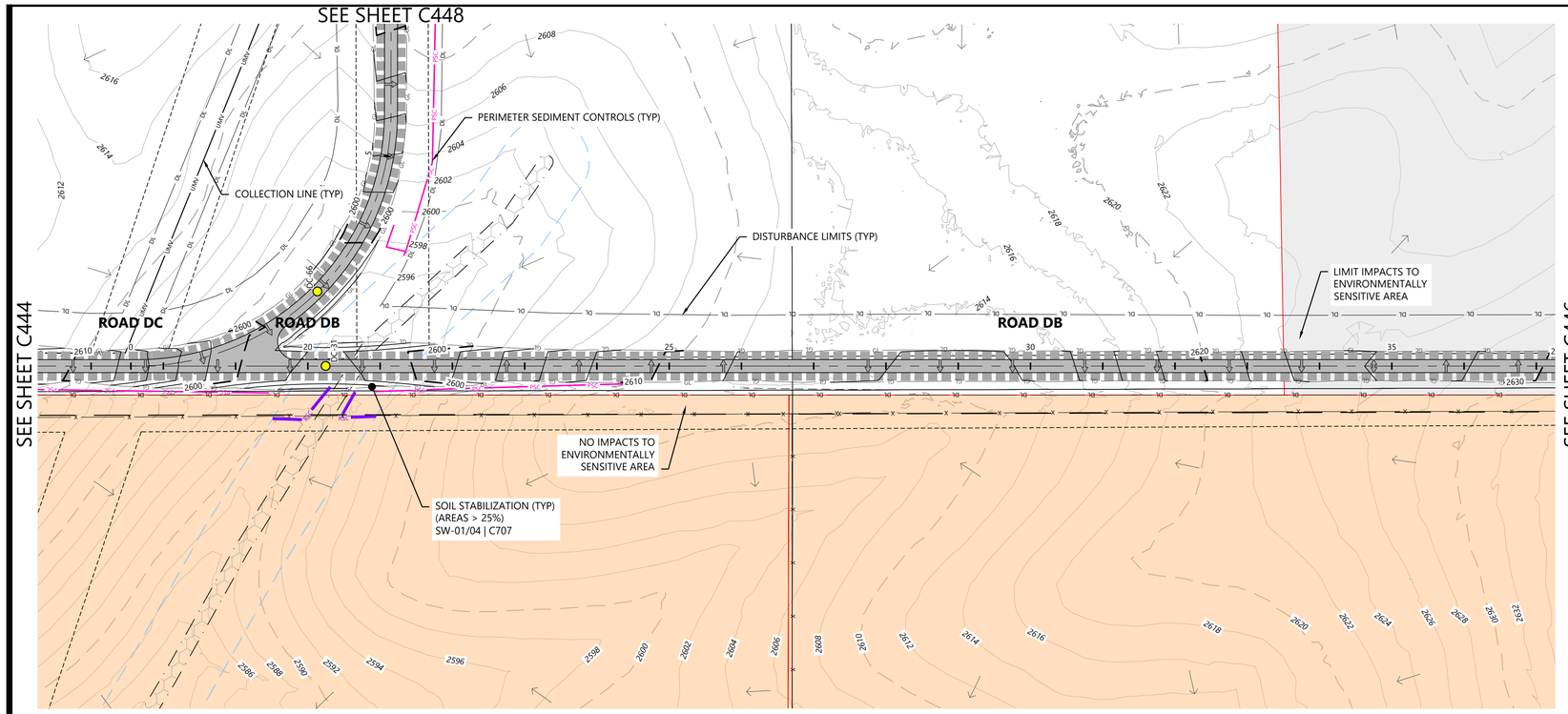
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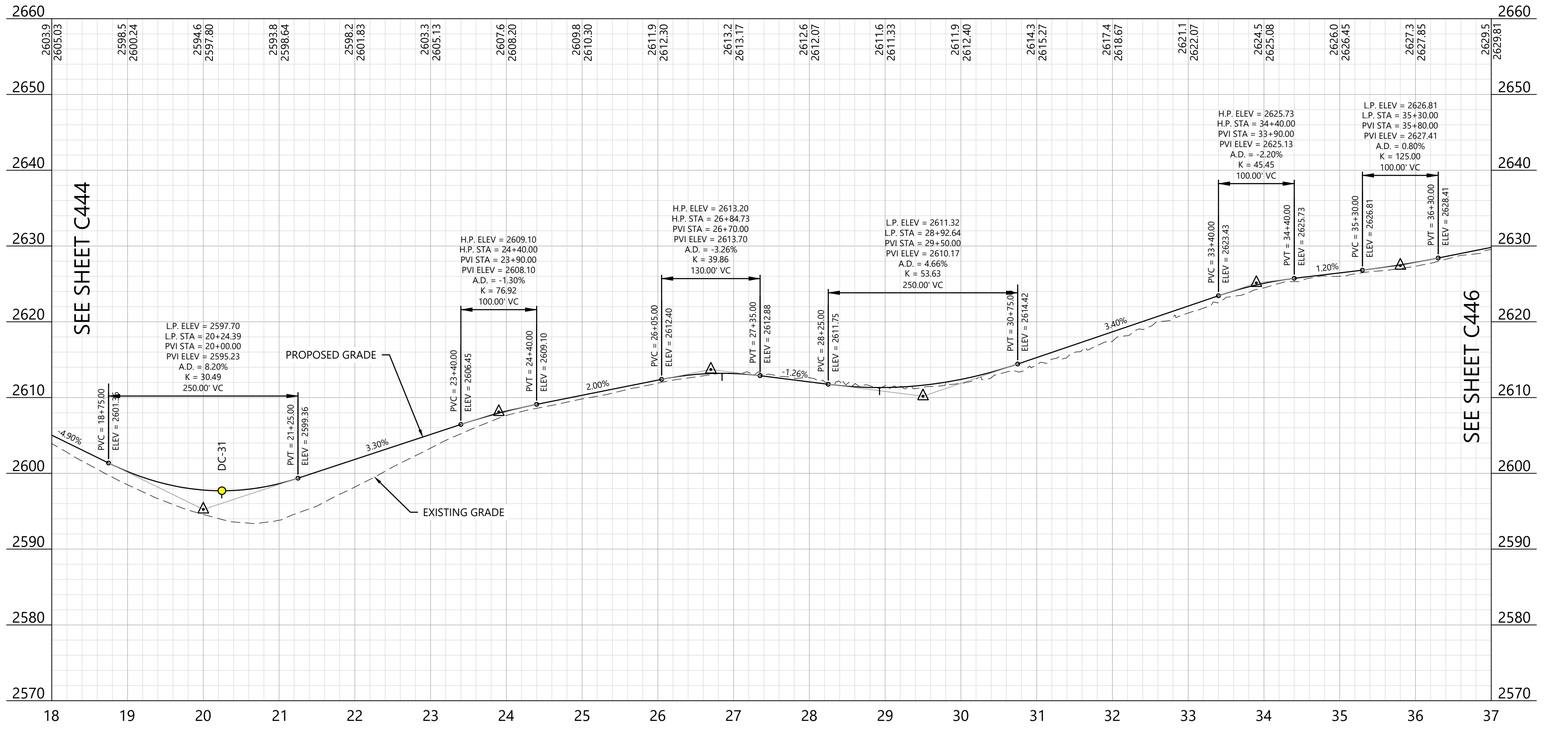
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SHEET: C444

REV: B

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- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- 900 INDEX CONTOUR
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- TREELINE
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- X FENCE
- POH OVERHEAD POWER
- FO FIBER OPTIC LINE
- WAT WATER LINE
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- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
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- DITCH
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- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

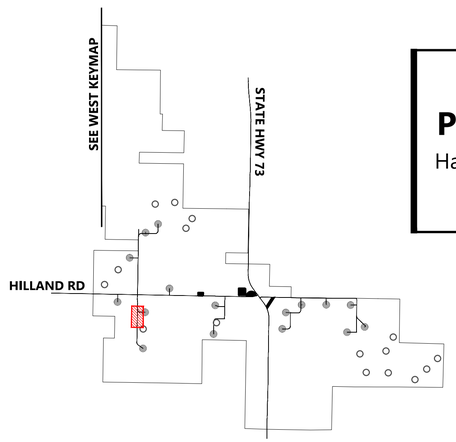
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0' 100' 200' 300'

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Philip Wind Project

Haakon County, South Dakota

Road DB - Sta. 18+00.00 to 37+00.00

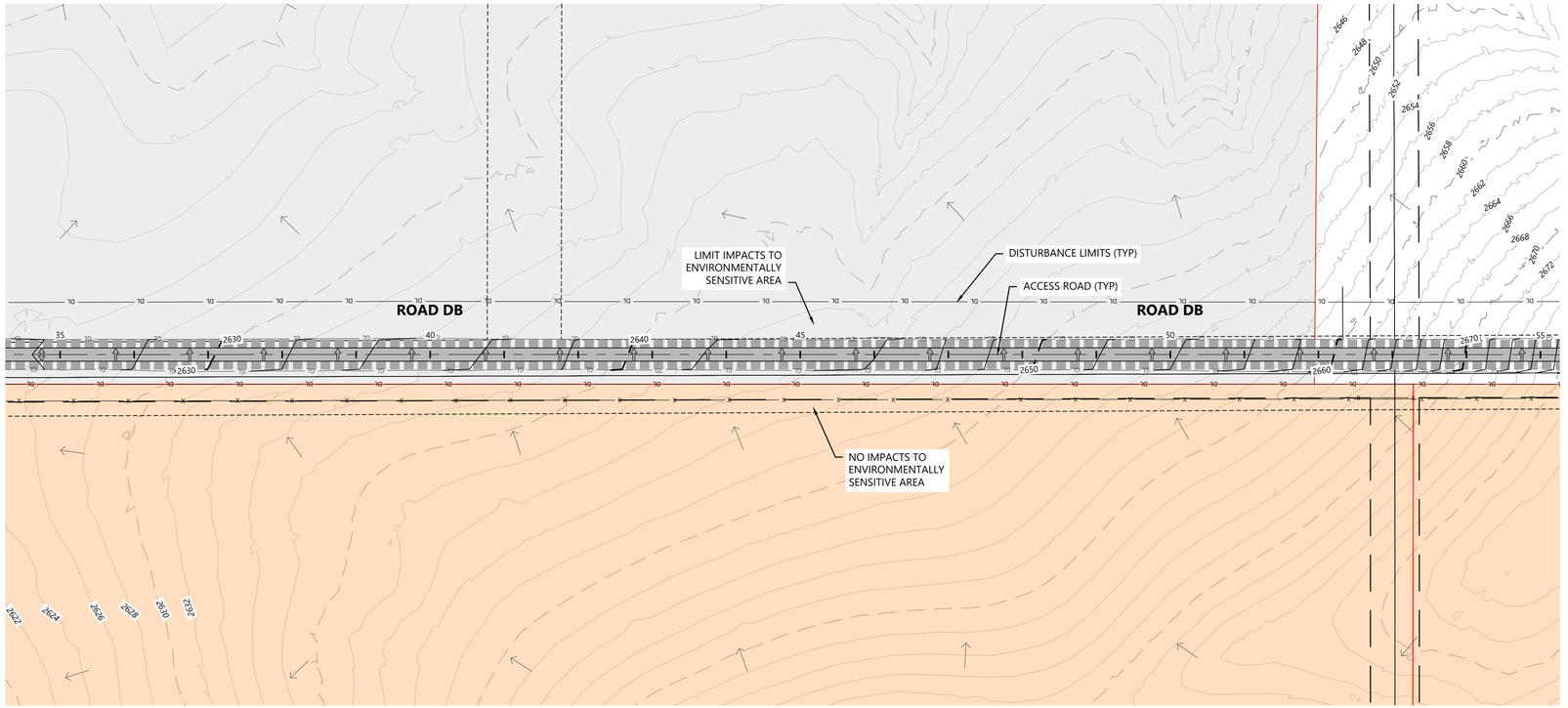
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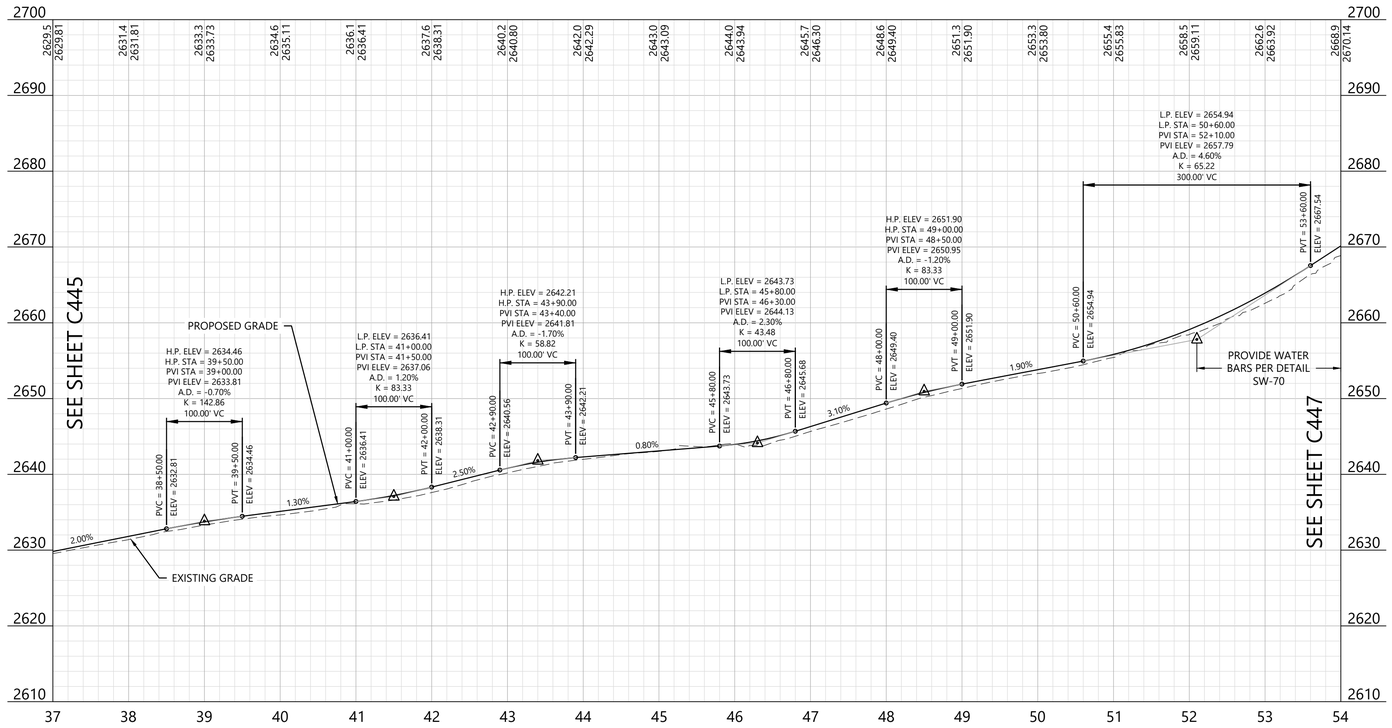
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SHEET: C445

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
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- SURVEY CORRIDOR
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- INDEX CONTOUR
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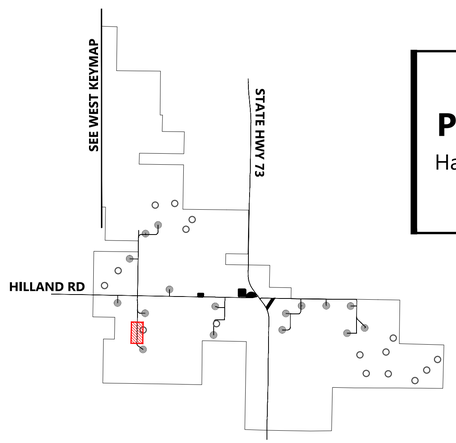
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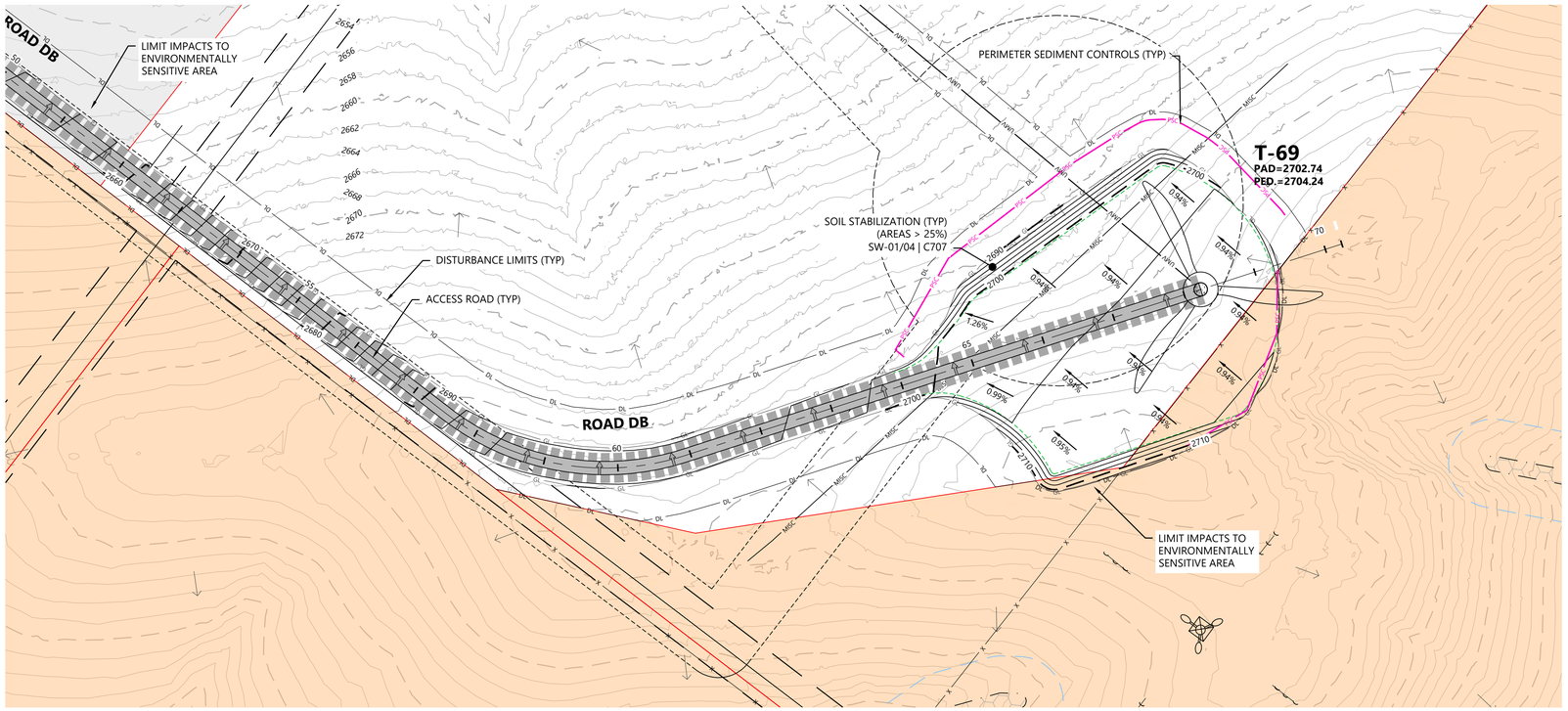
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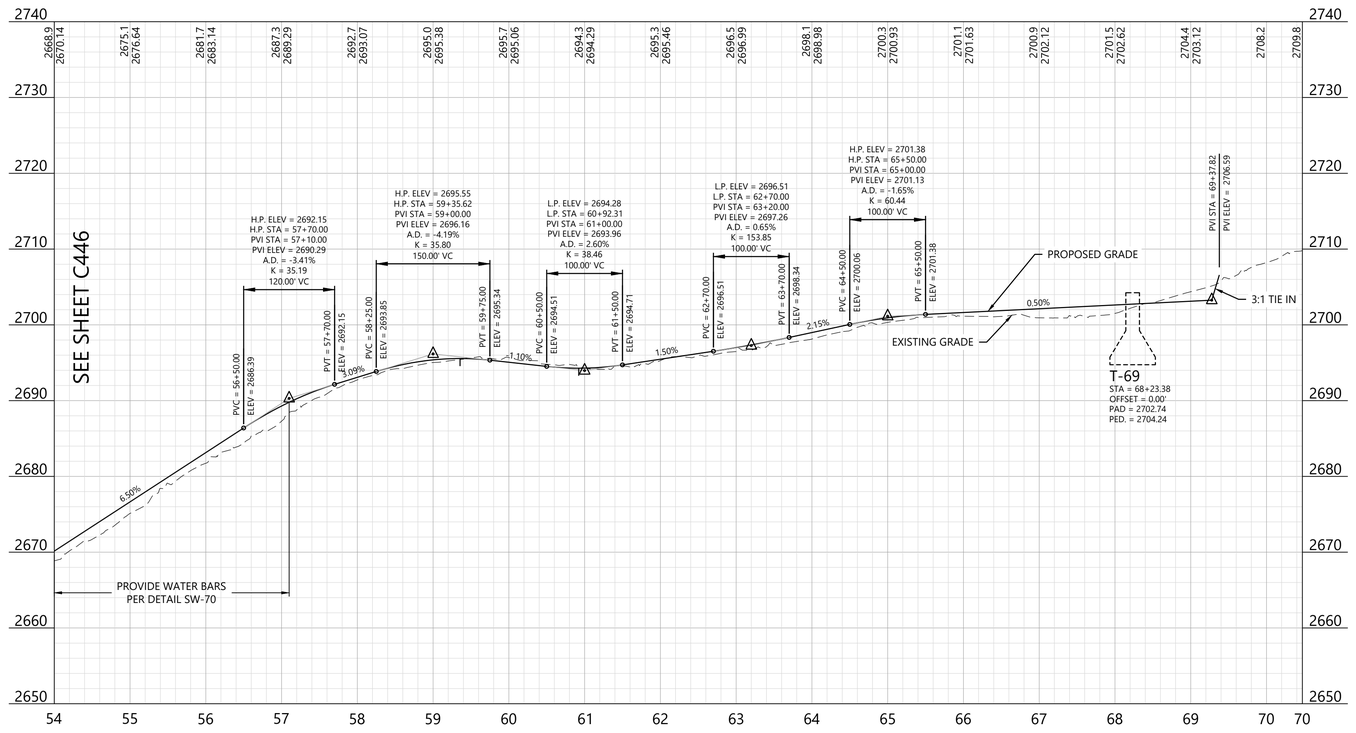
DATE: 05/07/2026

SHEET: C446

REV: B

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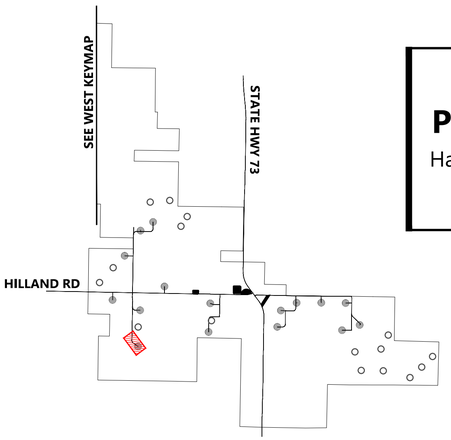
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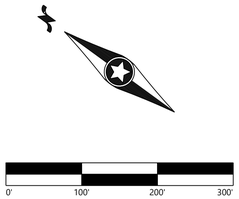
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EAST KEYMAP:





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Philip Wind Project

Haakon County, South Dakota

Road DB - Sta. 54+00.00 to End T-69

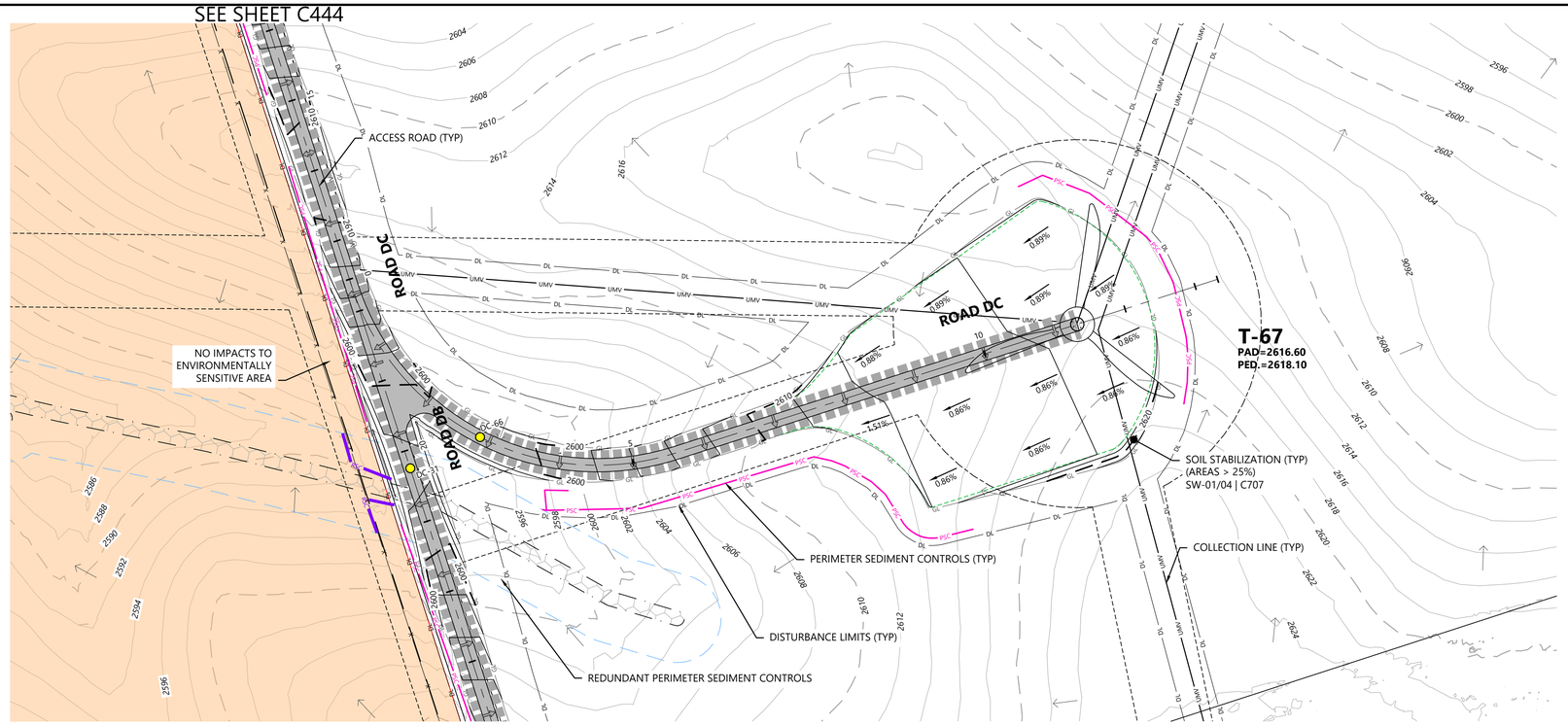
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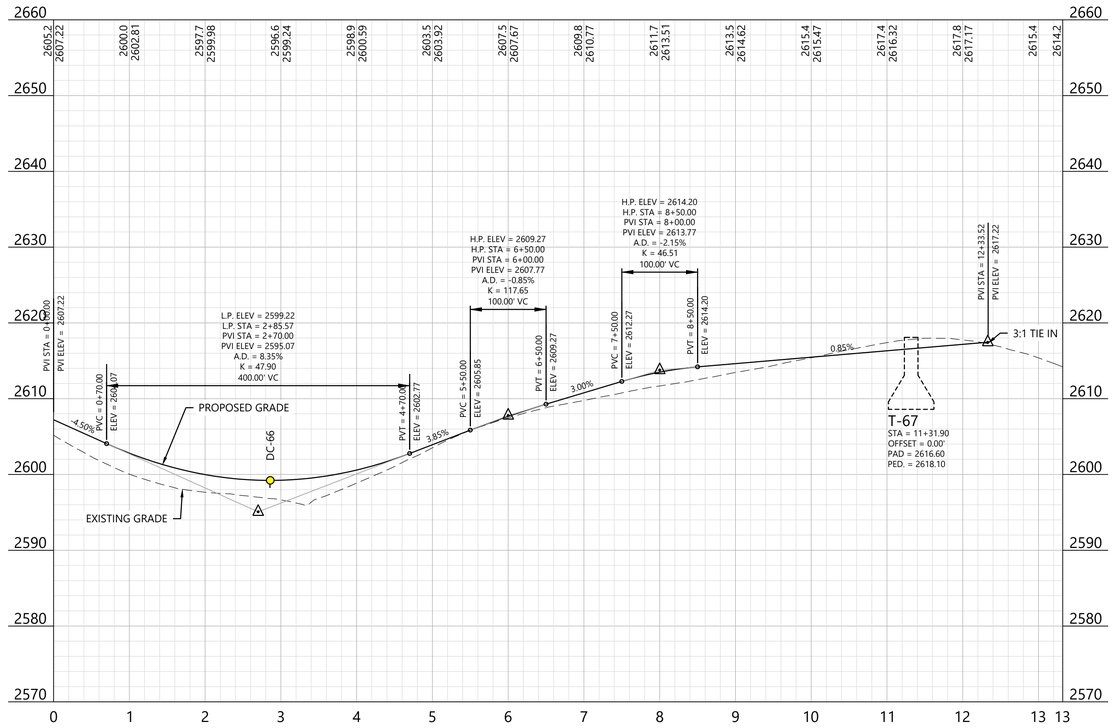
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SHEET: C447

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LEGEND:

EXISTING:

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- EASEMENT LINES
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- PARCEL LINES
- INDEX CONTOUR
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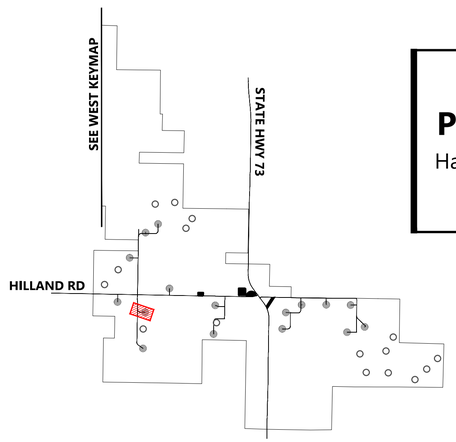
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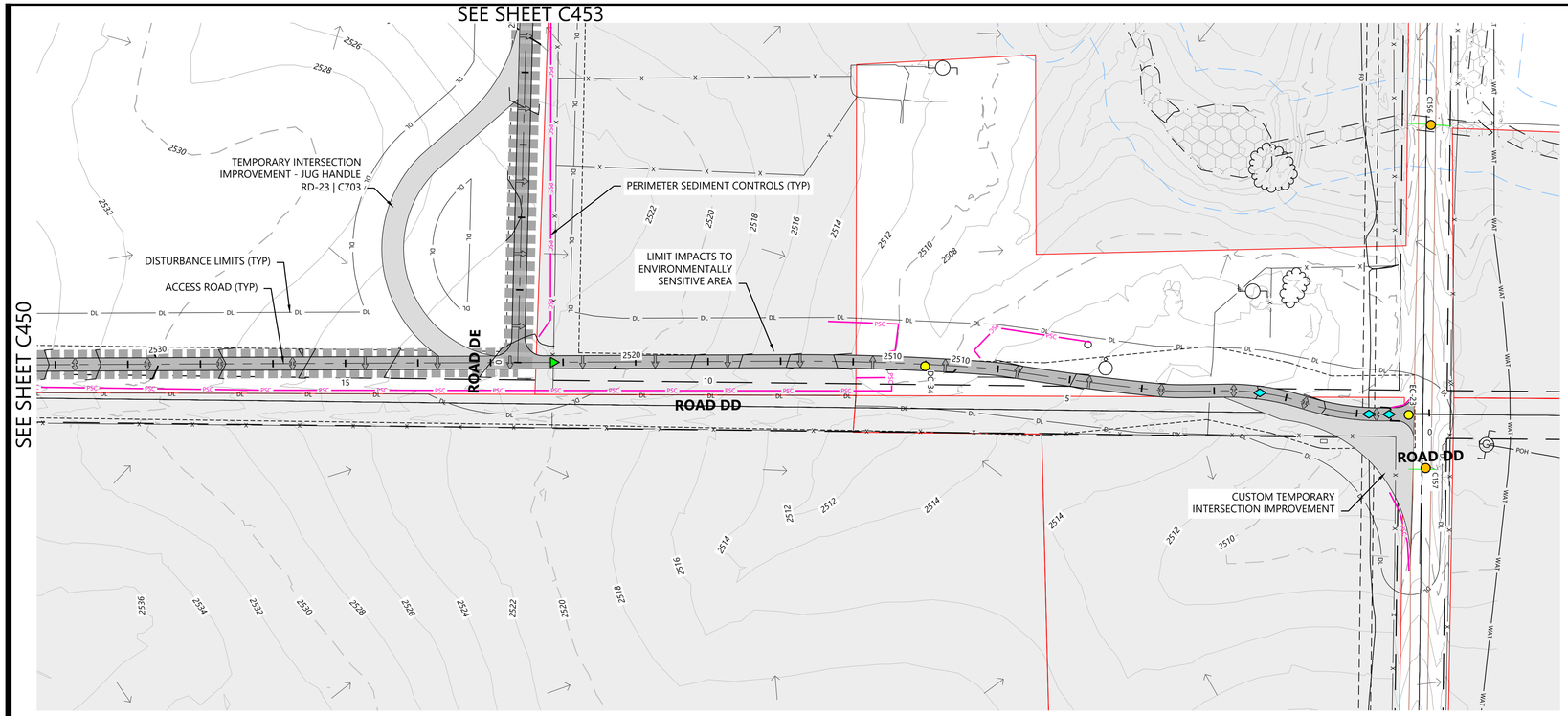
Philip Wind Project
Haakon County, South Dakota

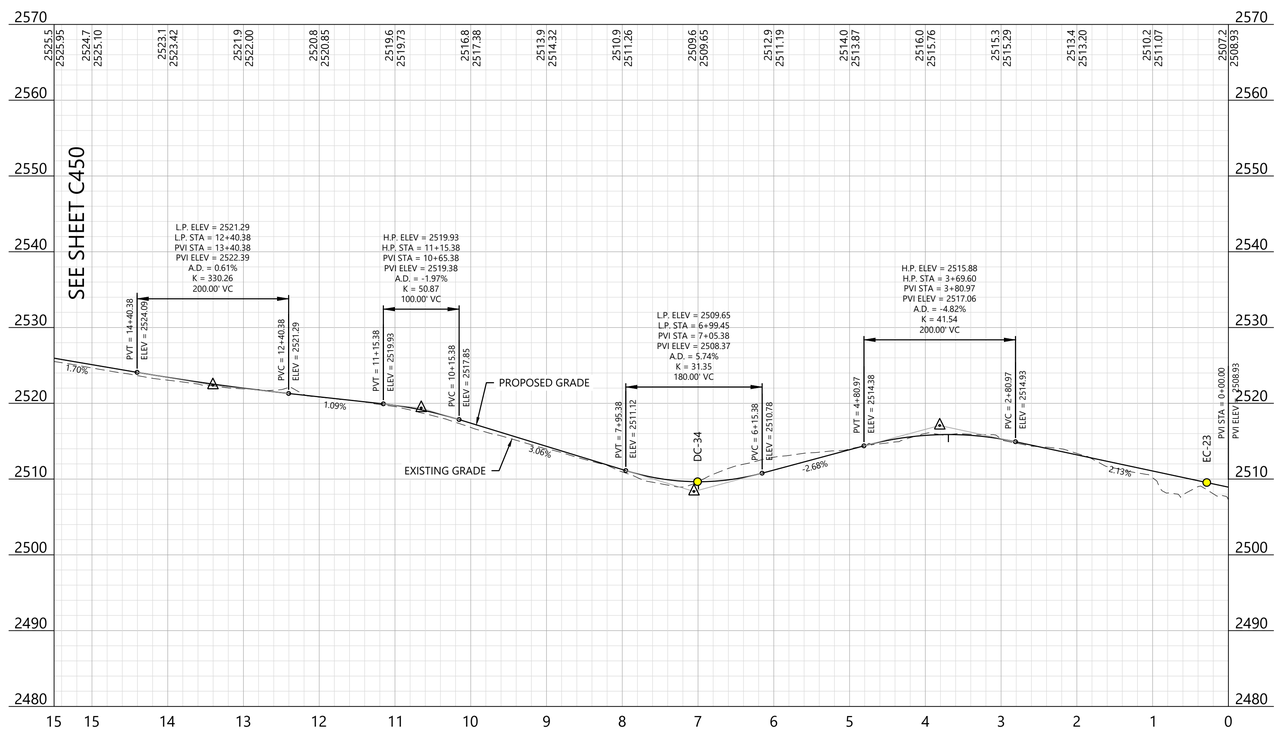
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ISSUED FOR PERMIT
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DATE: 05/07/2026
SHEET: C448
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LEGEND:

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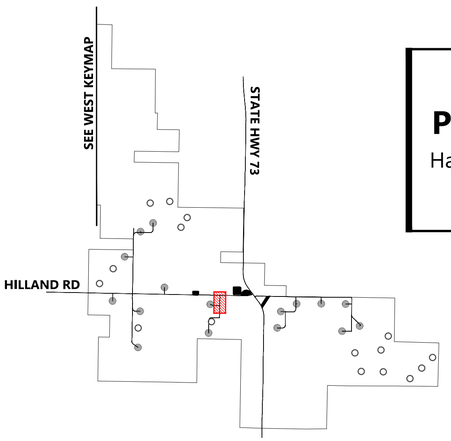
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0' 100' 200' 300'

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Haakon County, South Dakota

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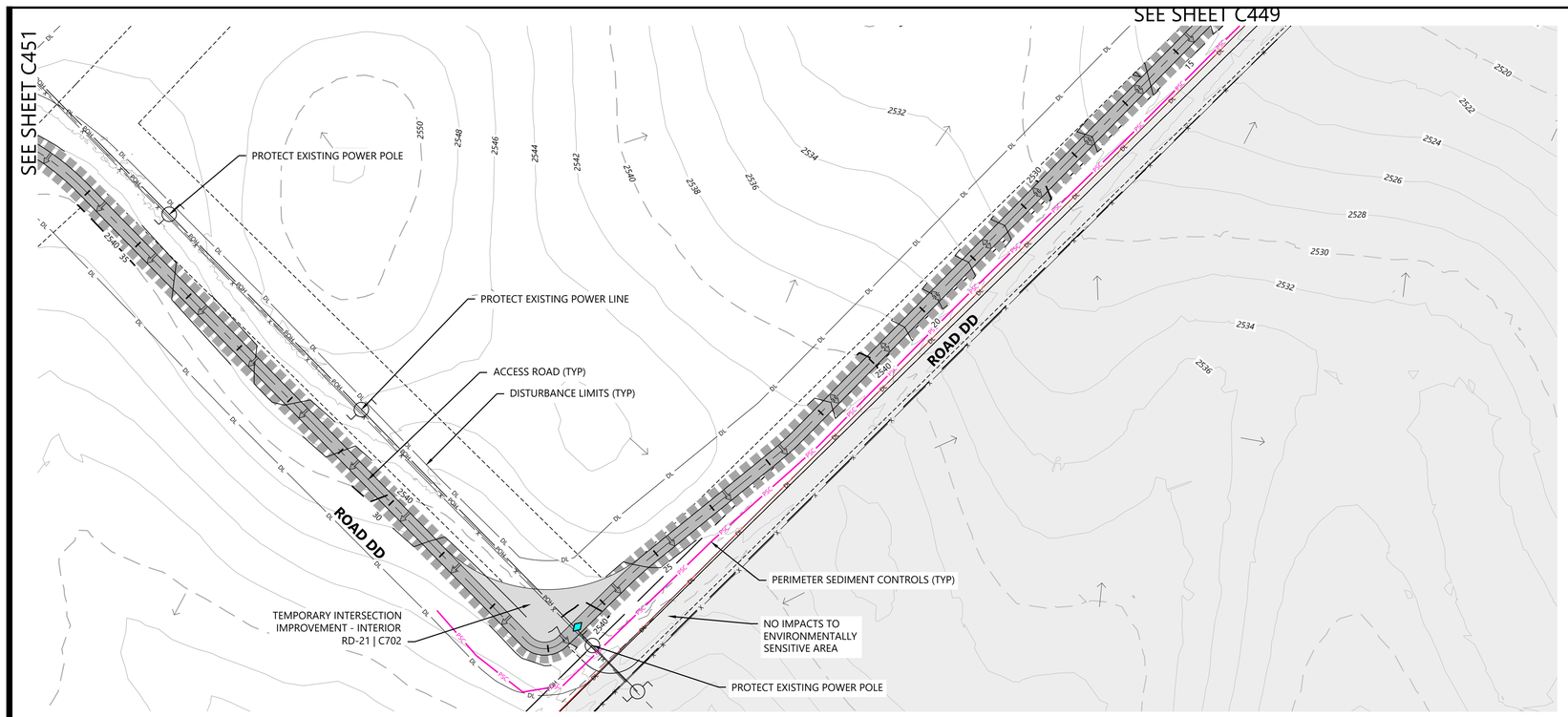
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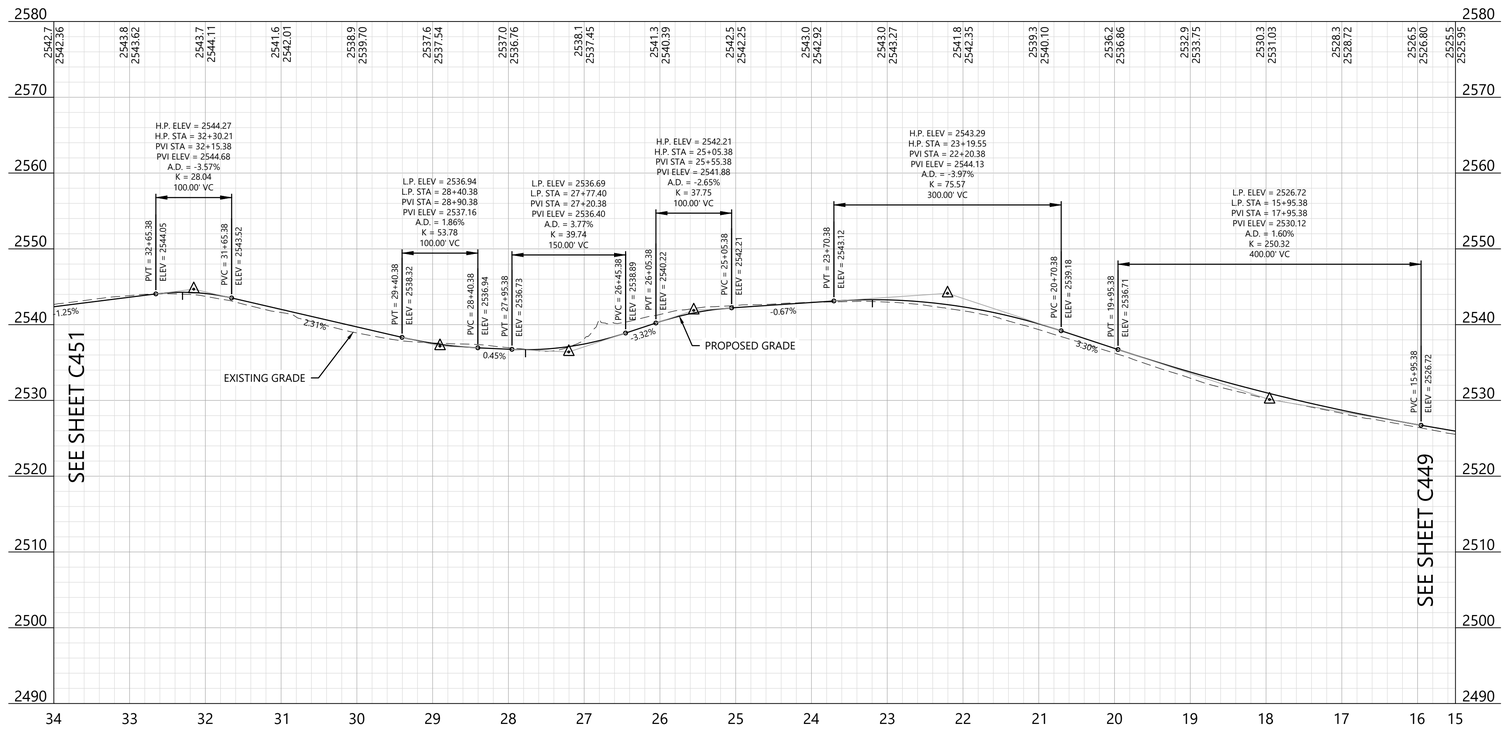
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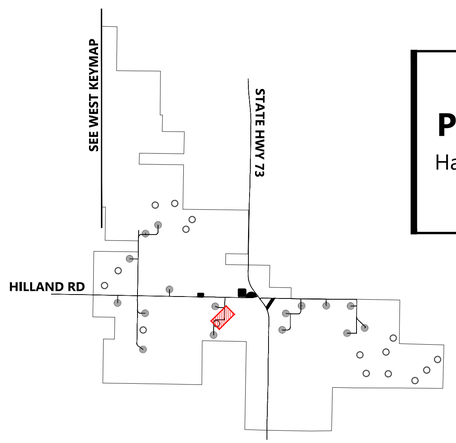
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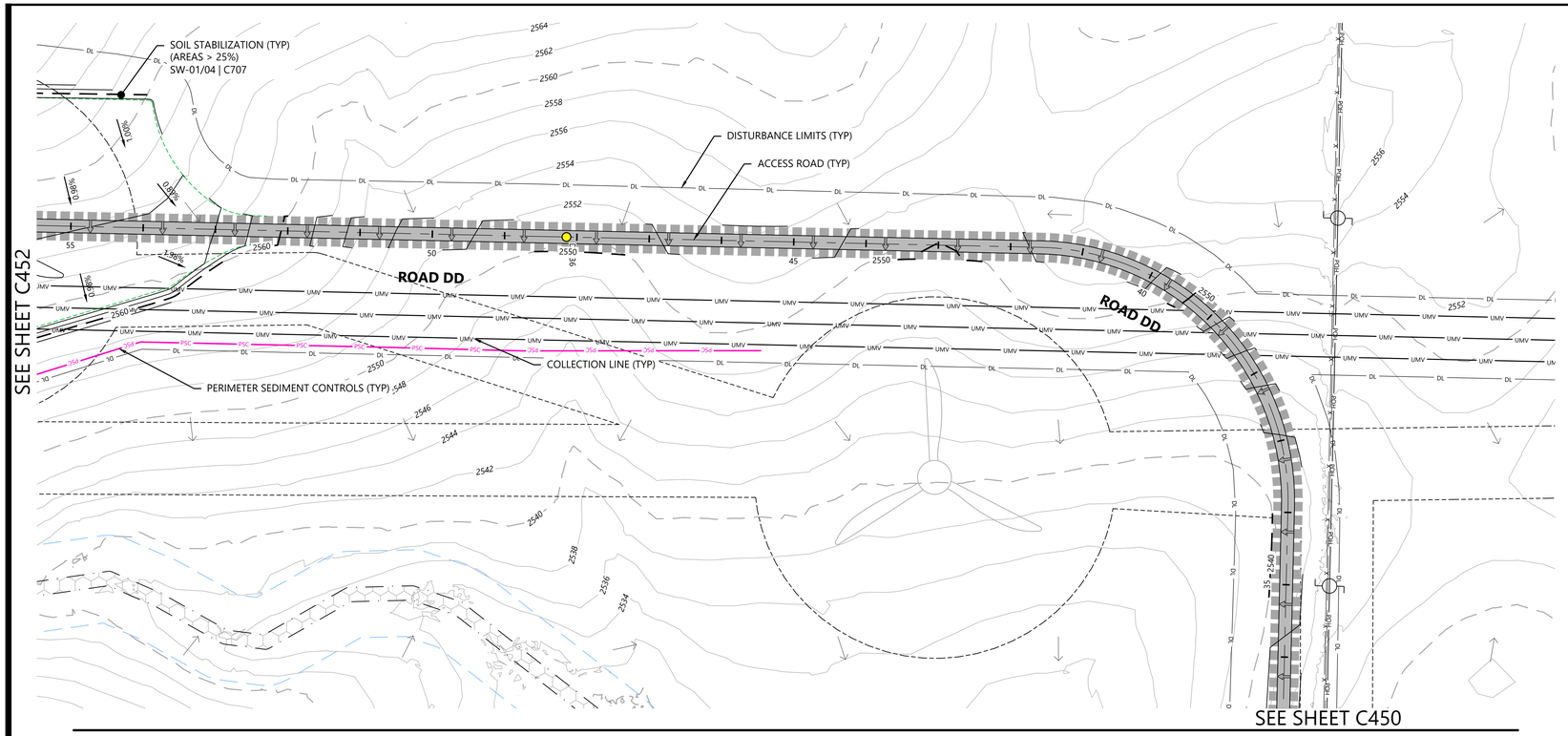
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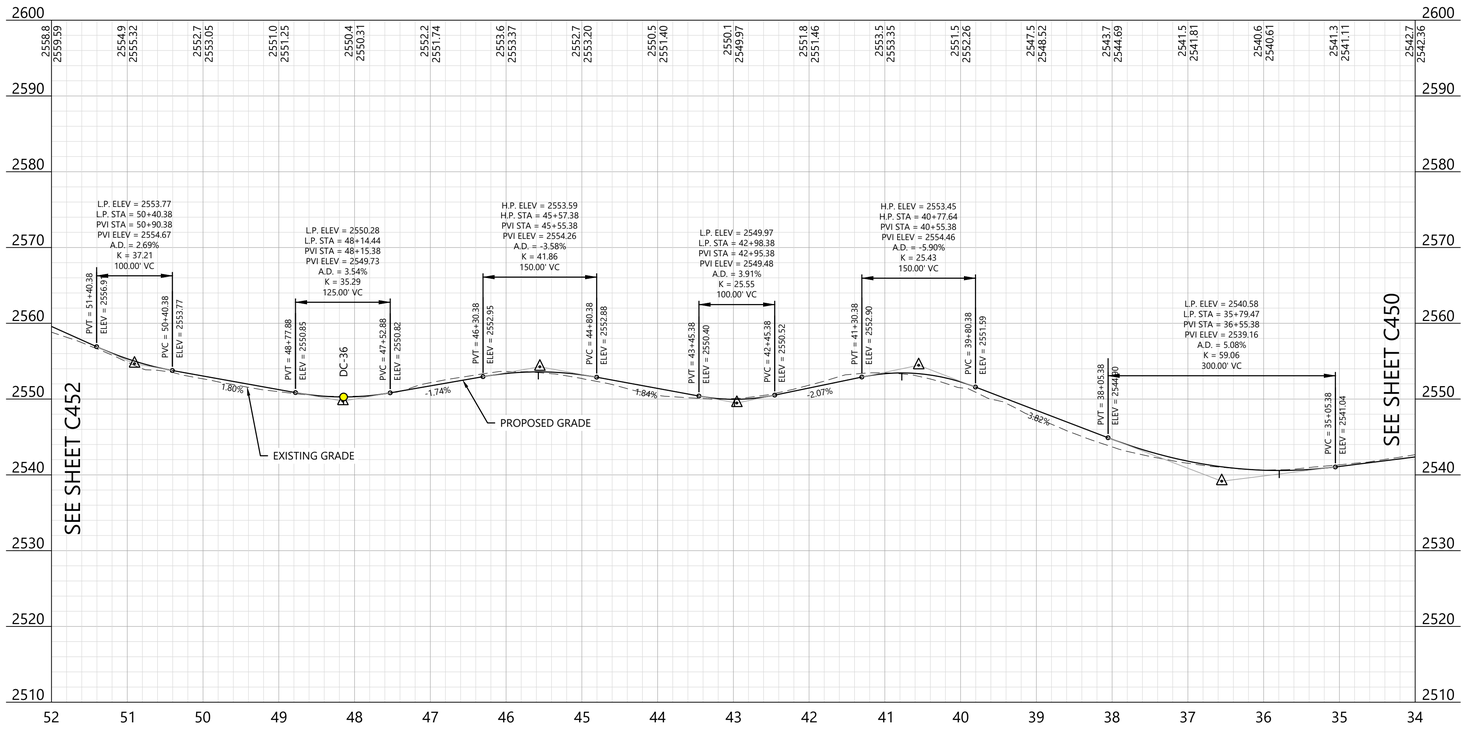
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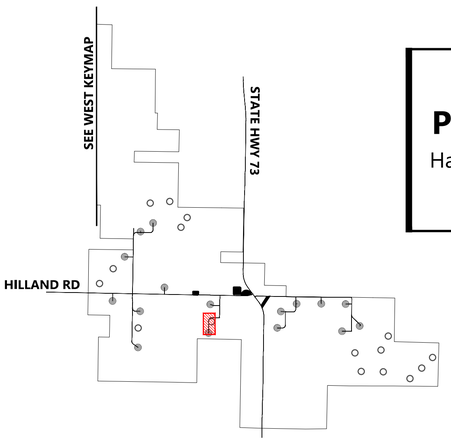
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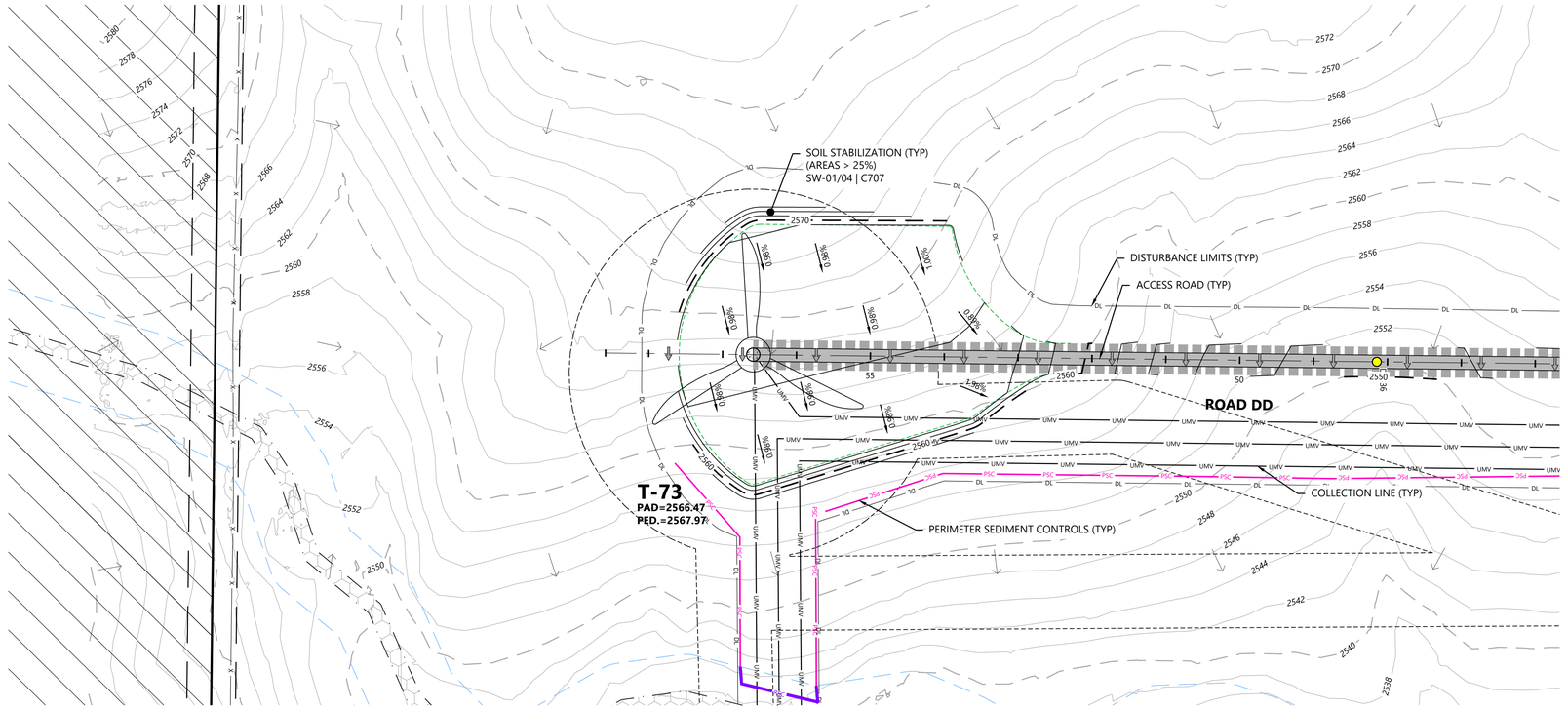
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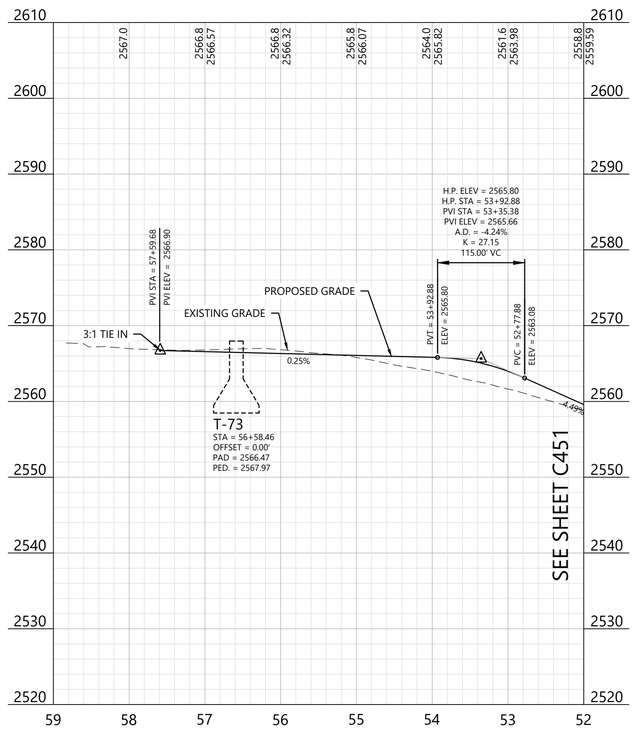
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- TREELINE
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- PROJECT FACILITIES

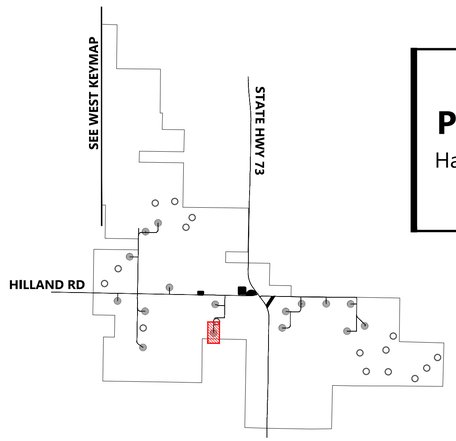
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EAST KEYMAP:



0' 100' 200' 300'

Westwood

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DAVID KELESHIAN
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06/17/26

PREPARED FOR:

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Philip Wind Project

Haakon County, South Dakota

ROAD DD - Sta. 52+00.00 to End T-73

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

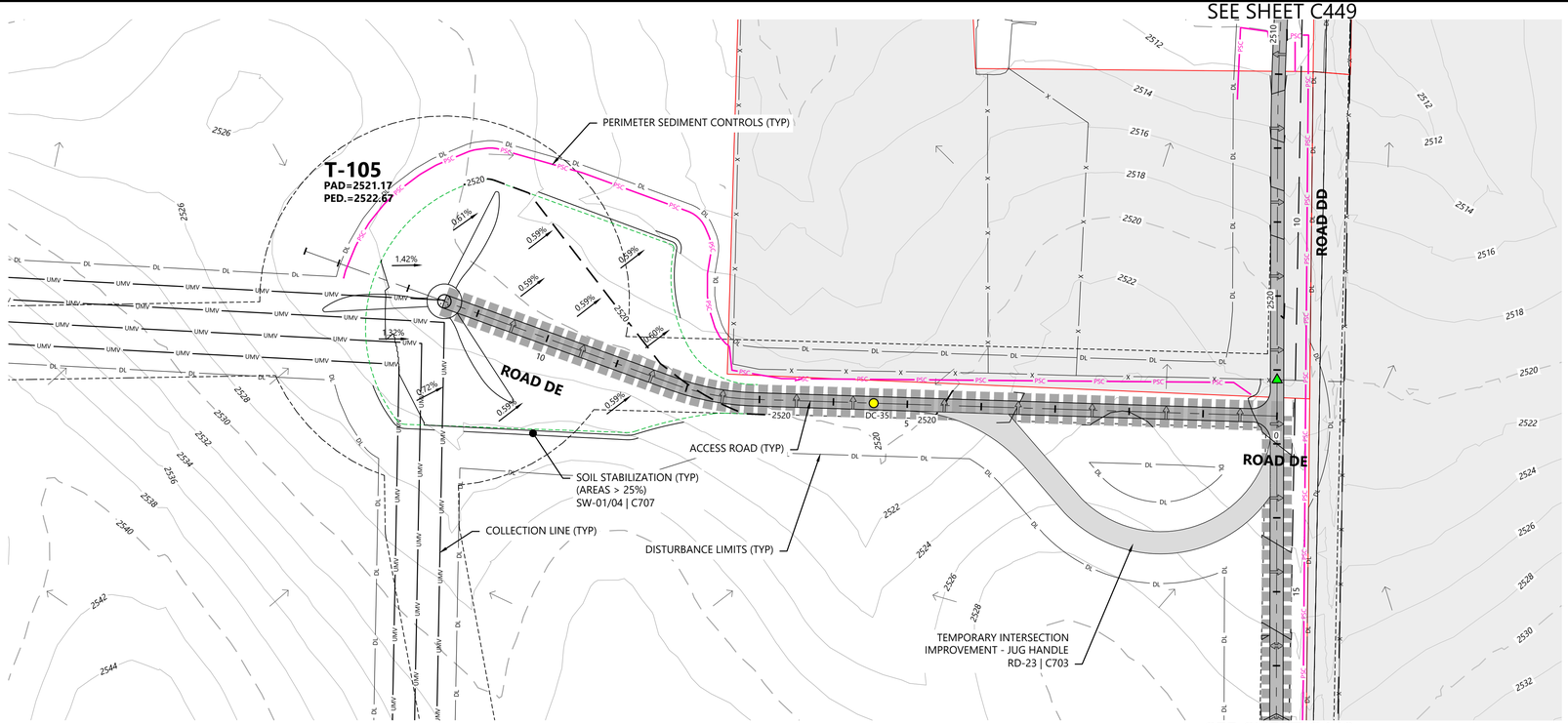
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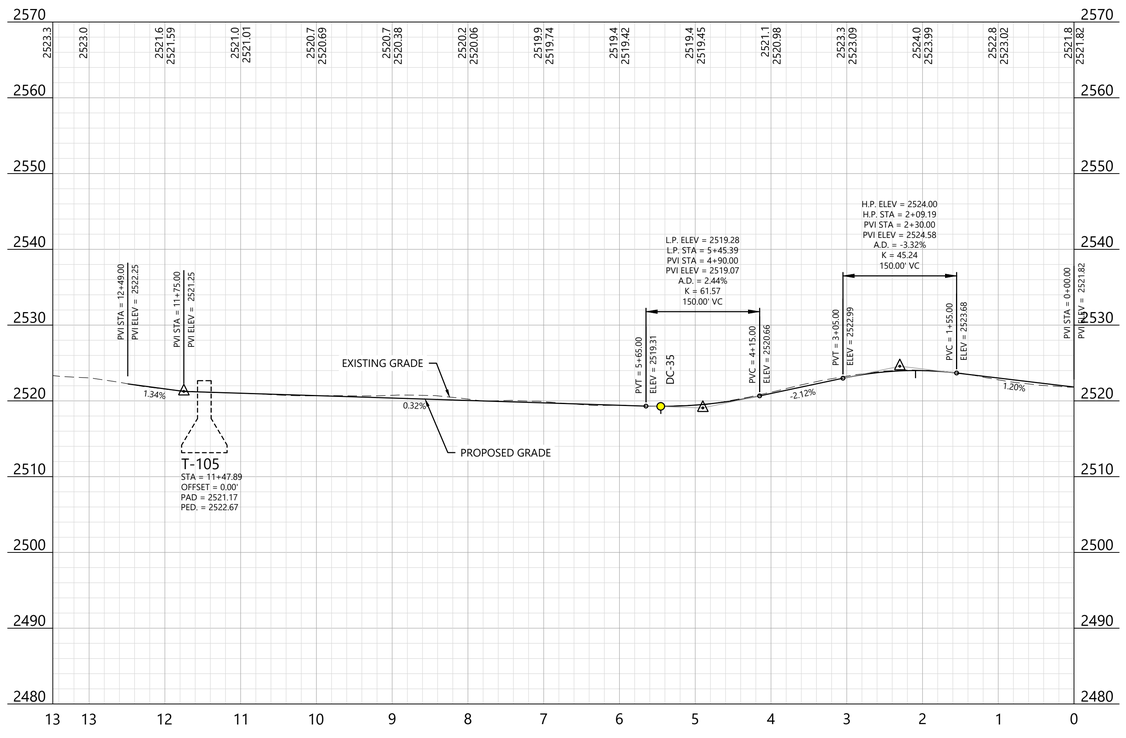
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SEE SHEET C449



SEE SHEET C449



LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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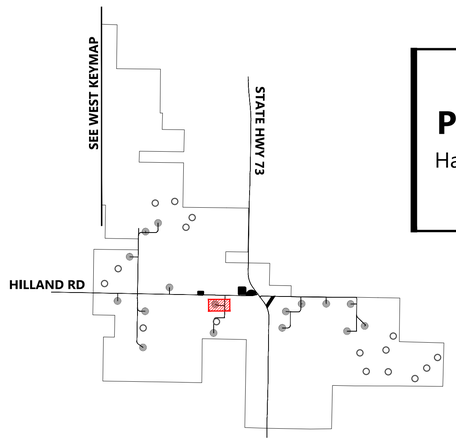
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Philip Wind Project

Haakon County, South Dakota

ROAD DE - Sta. 0+00.00 to End T-105

ISSUED FOR PERMIT
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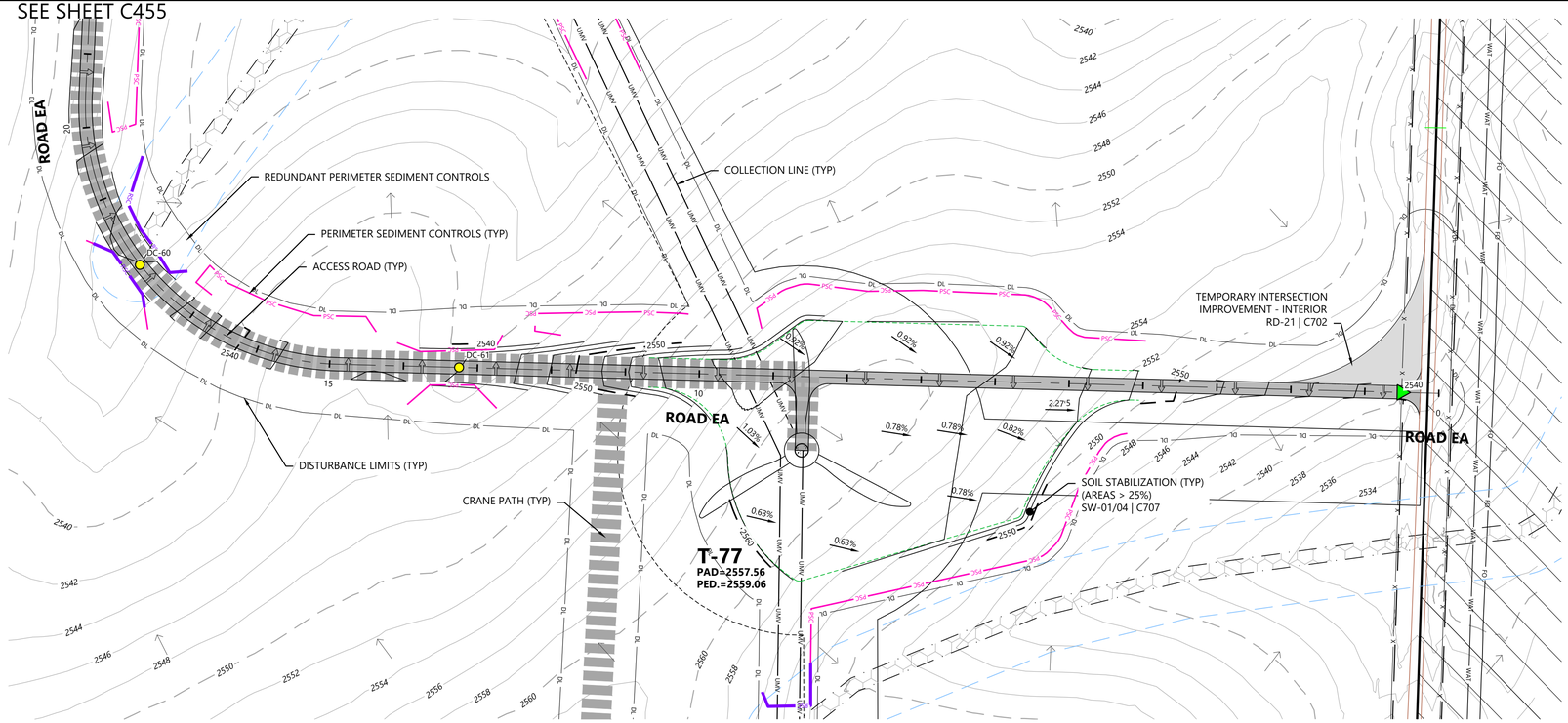
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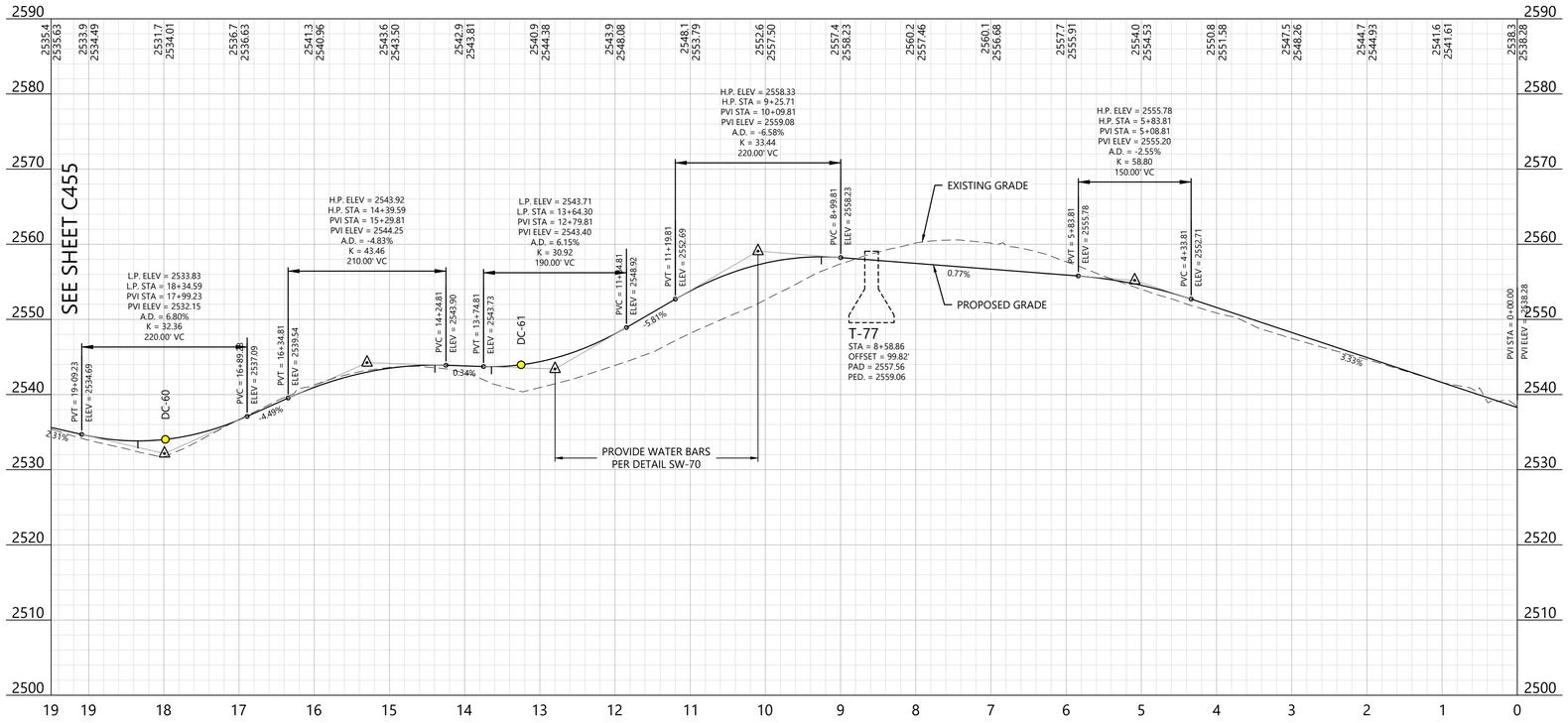
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SEE SHEET C455





LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
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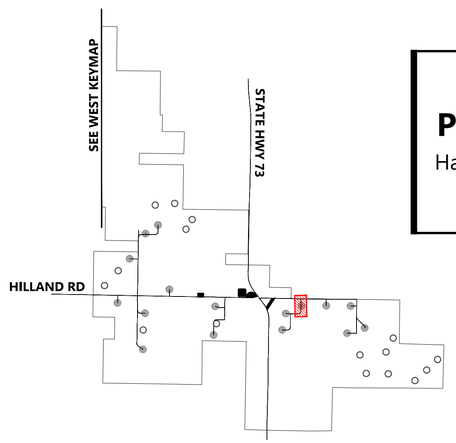
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Philip Wind Project

Haakon County, South Dakota

ROAD EA - Sta. 0+00.00 to 19+50.00
T-77

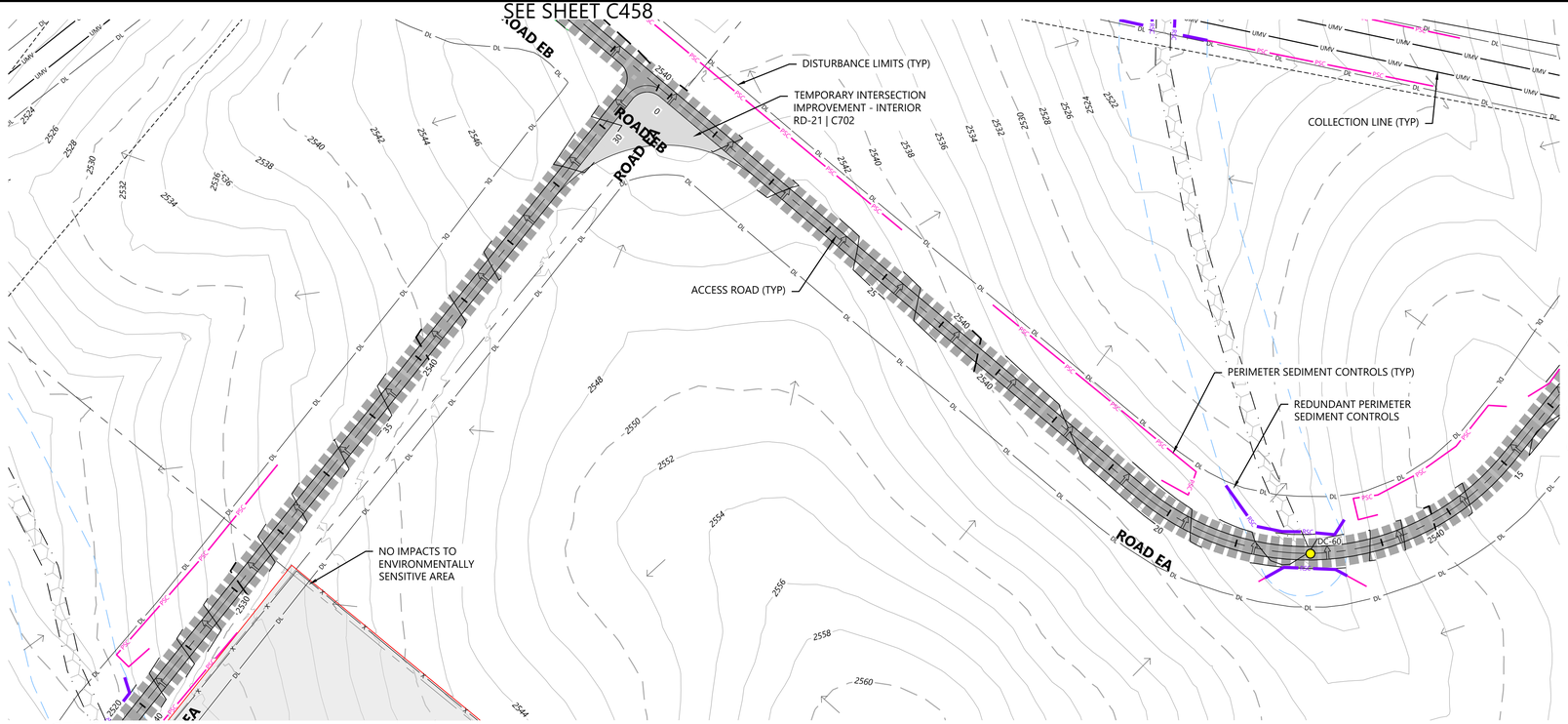
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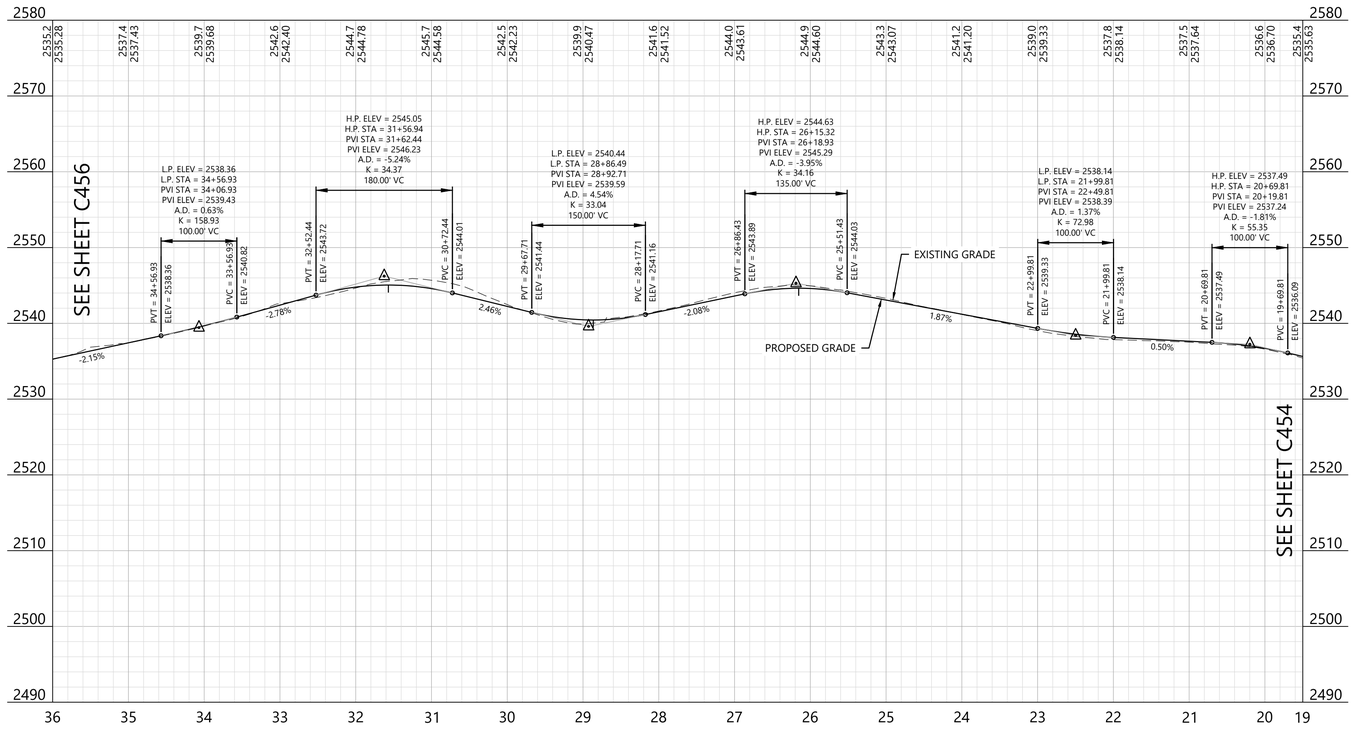
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SHEET: C454

REV: B

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LEGEND:

EXISTING:

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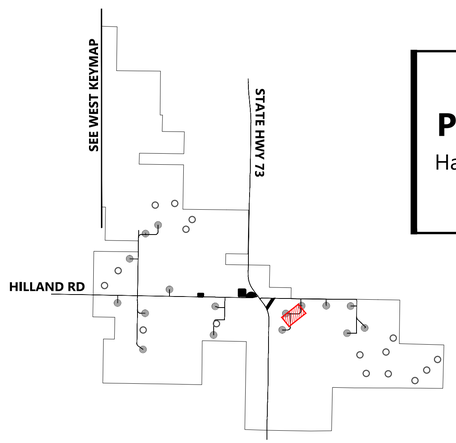
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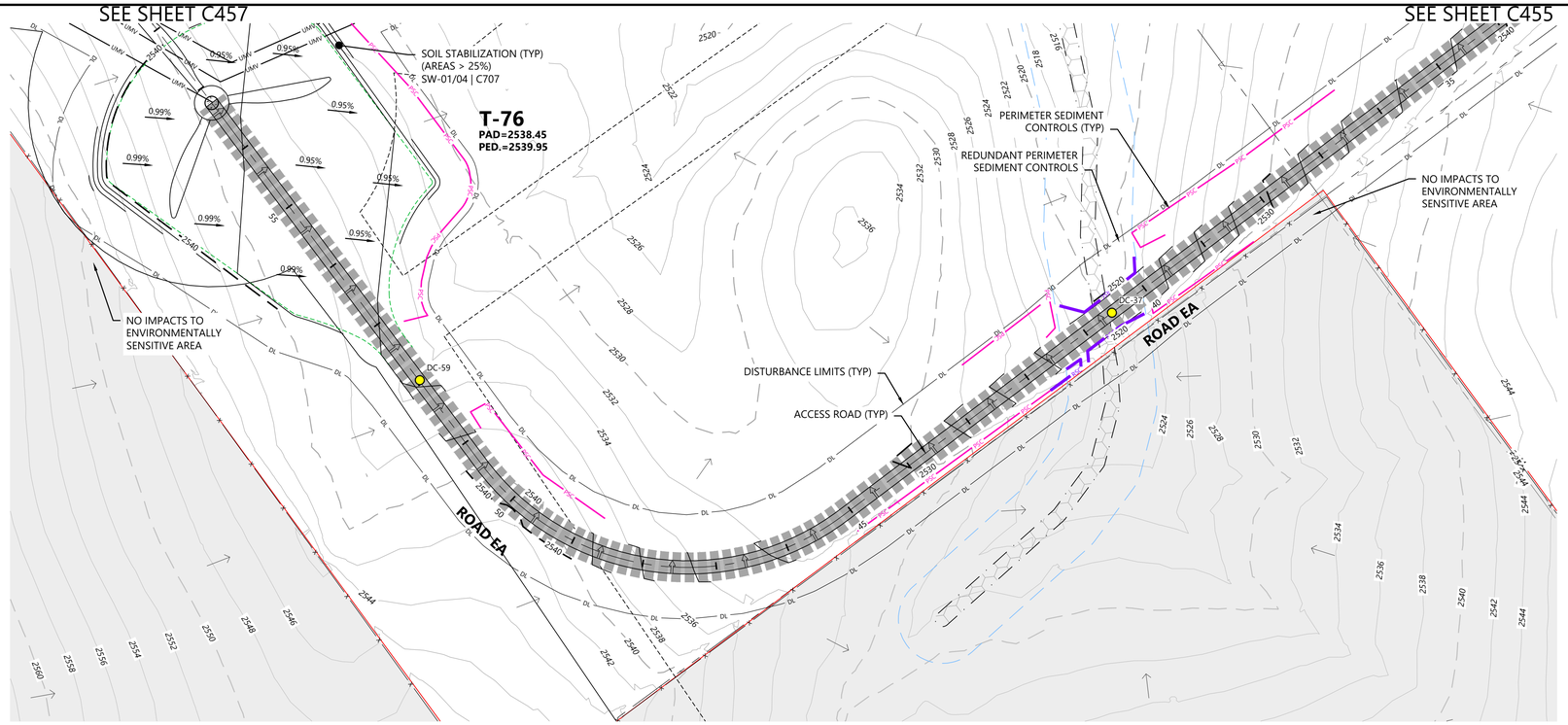
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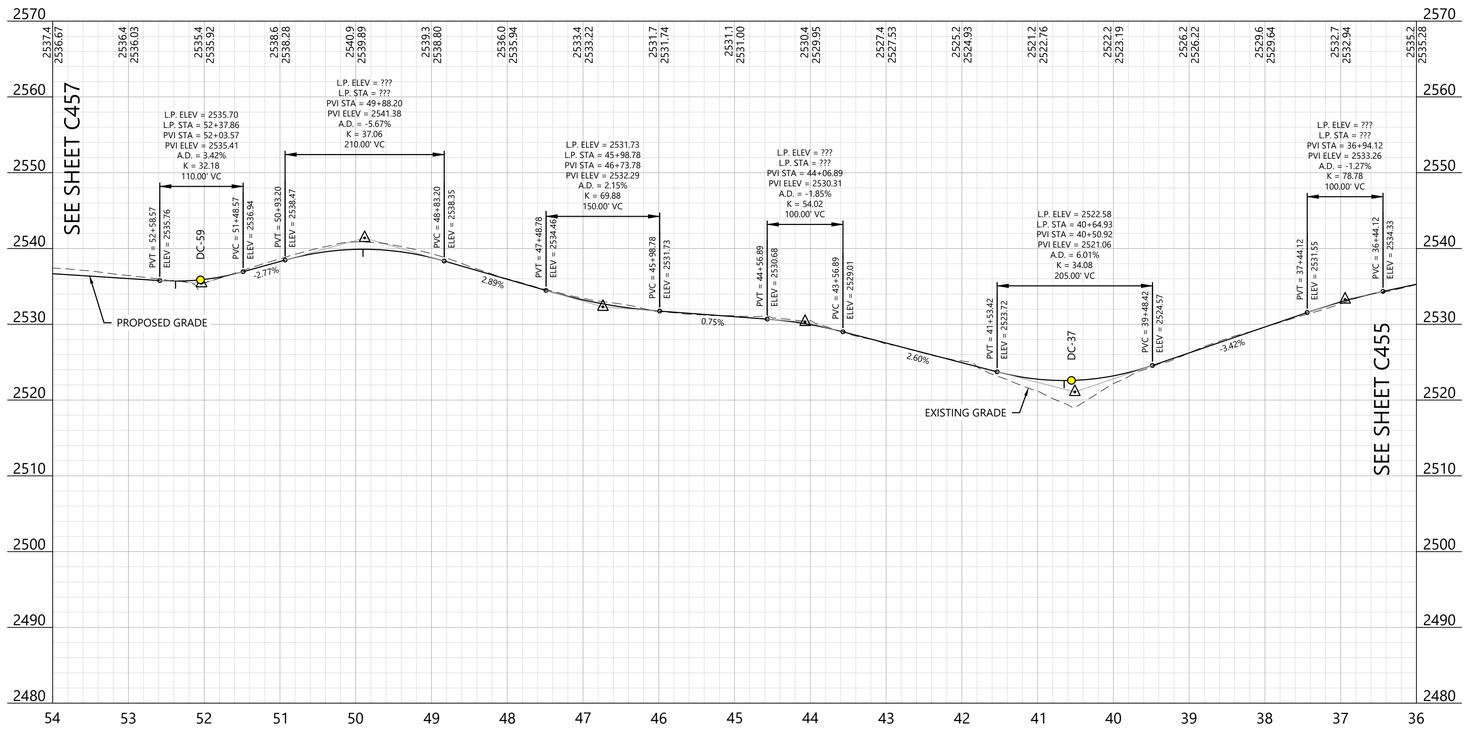
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REV: B

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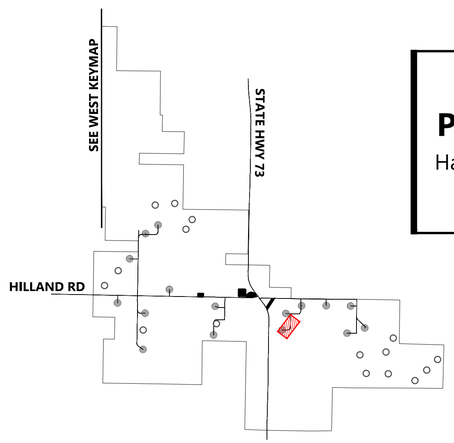
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Haakon County, South Dakota

ROAD EA - Sta. 36+00.00 to 50+00.00

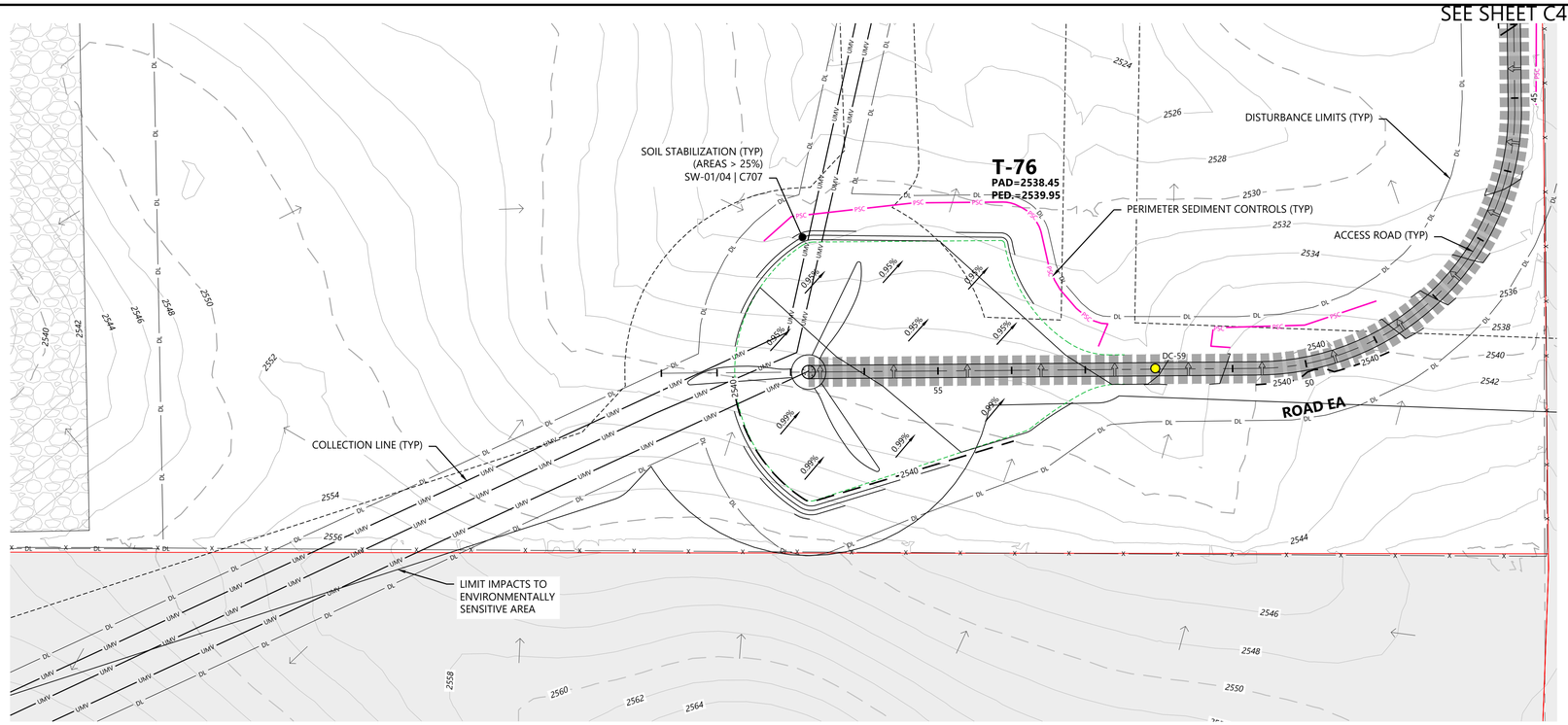
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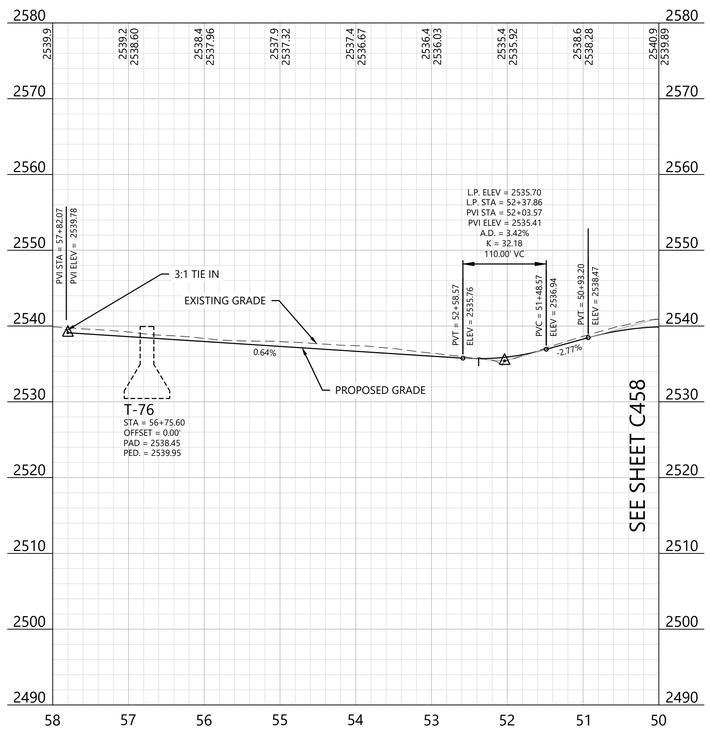
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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
- WATERCOURSE LINE (DELINEATED)
- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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- GIS PROTECTED AREA OF THE US (PADUS) - AVOID

PROPOSED:

- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UNDERGROUND COLLECTION
- OVERHEAD TRANSMISSION
- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
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- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

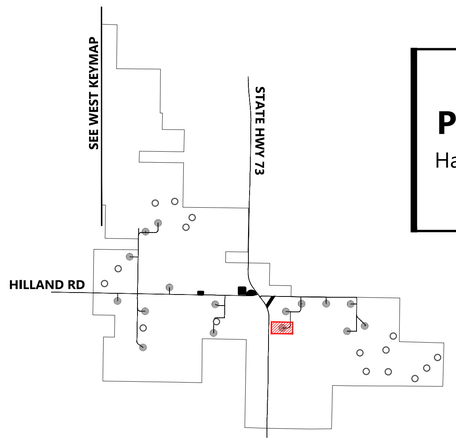
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EAST KEYMAP:



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REG. NO. 17360
DAVID KELFORD
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD EA - Sta. 50+00.00 to End T-76

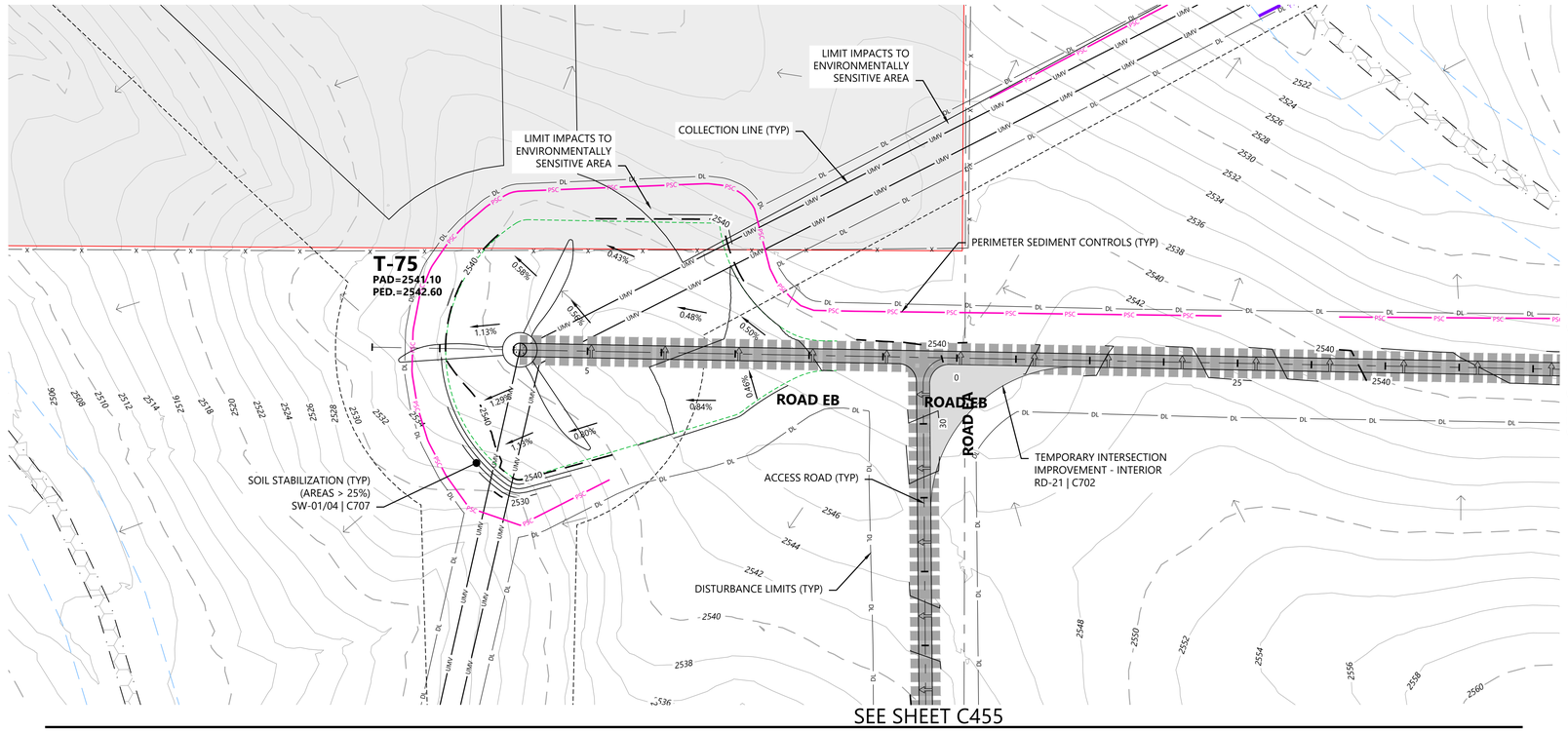
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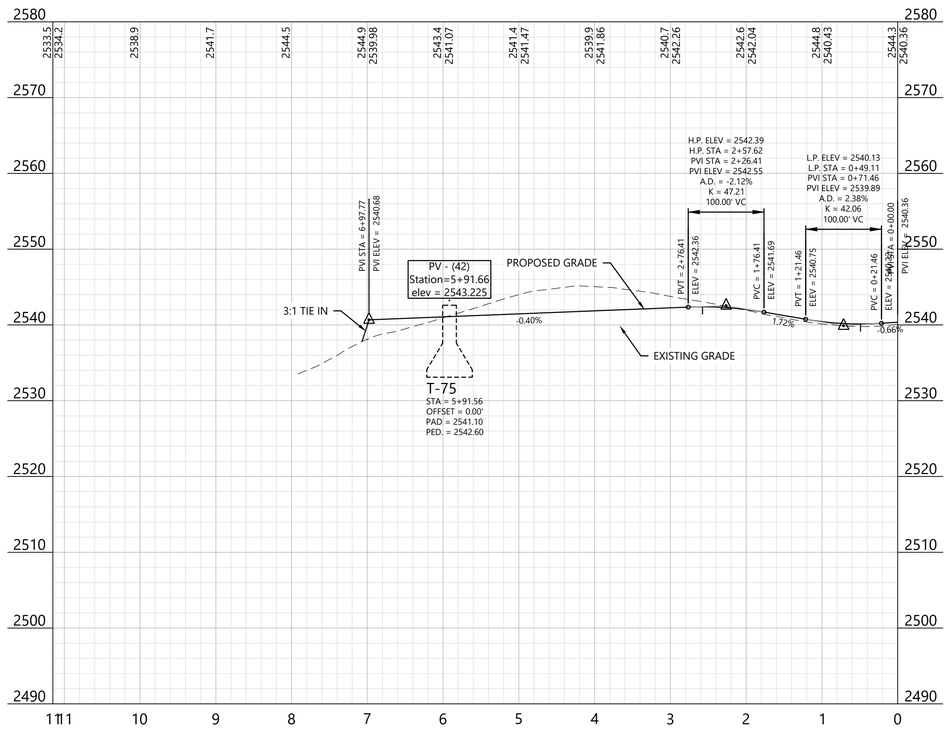
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SHEET: C457

REV: B

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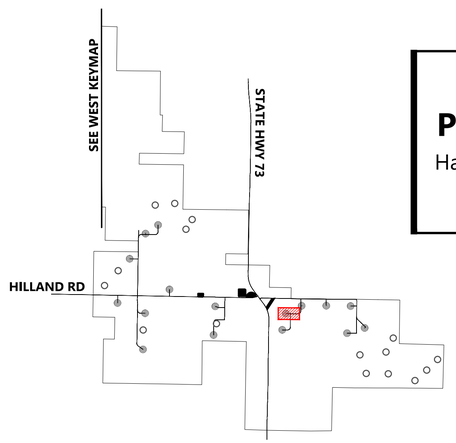
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Philip Wind Project

Haakon County, South Dakota

ROAD EB - Sta. 0+00.00 to End T-75

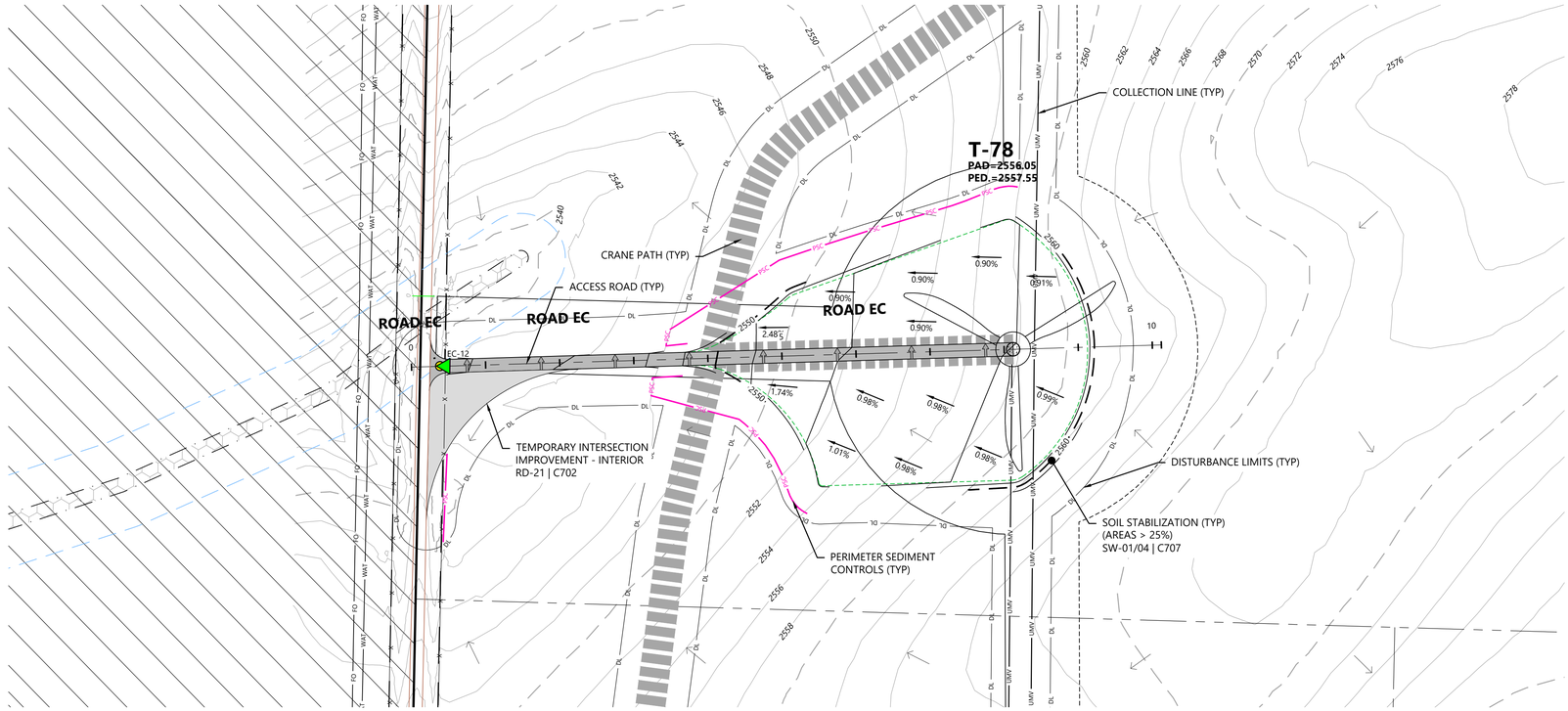
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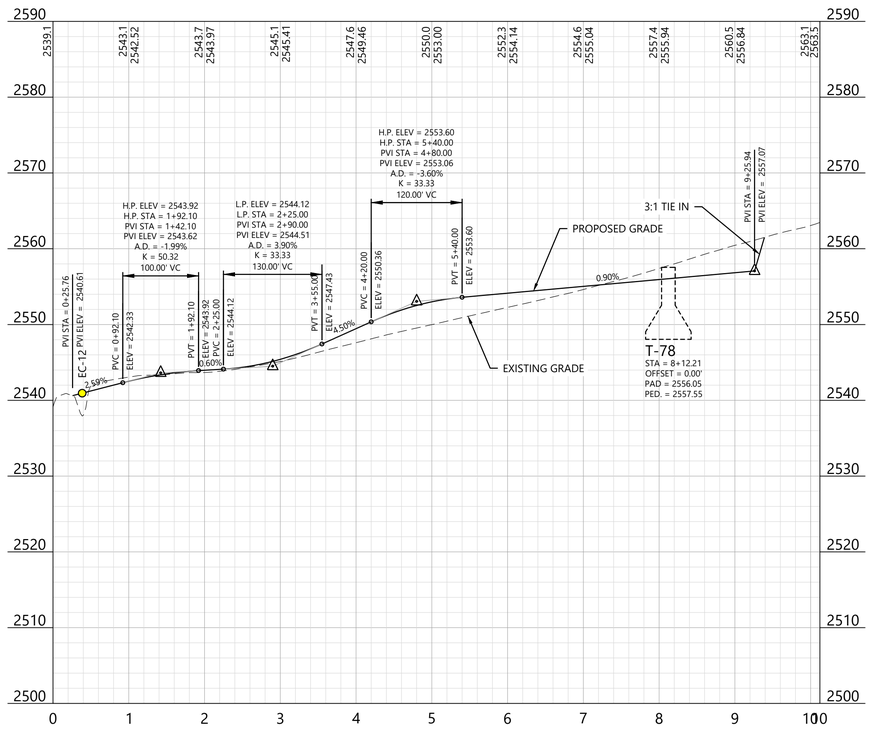
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SHEET: C458

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LEGEND:

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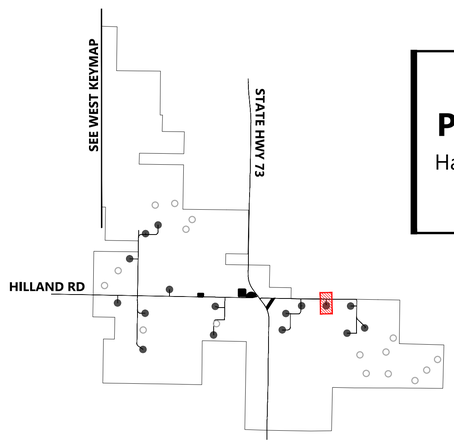
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06/17/26

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

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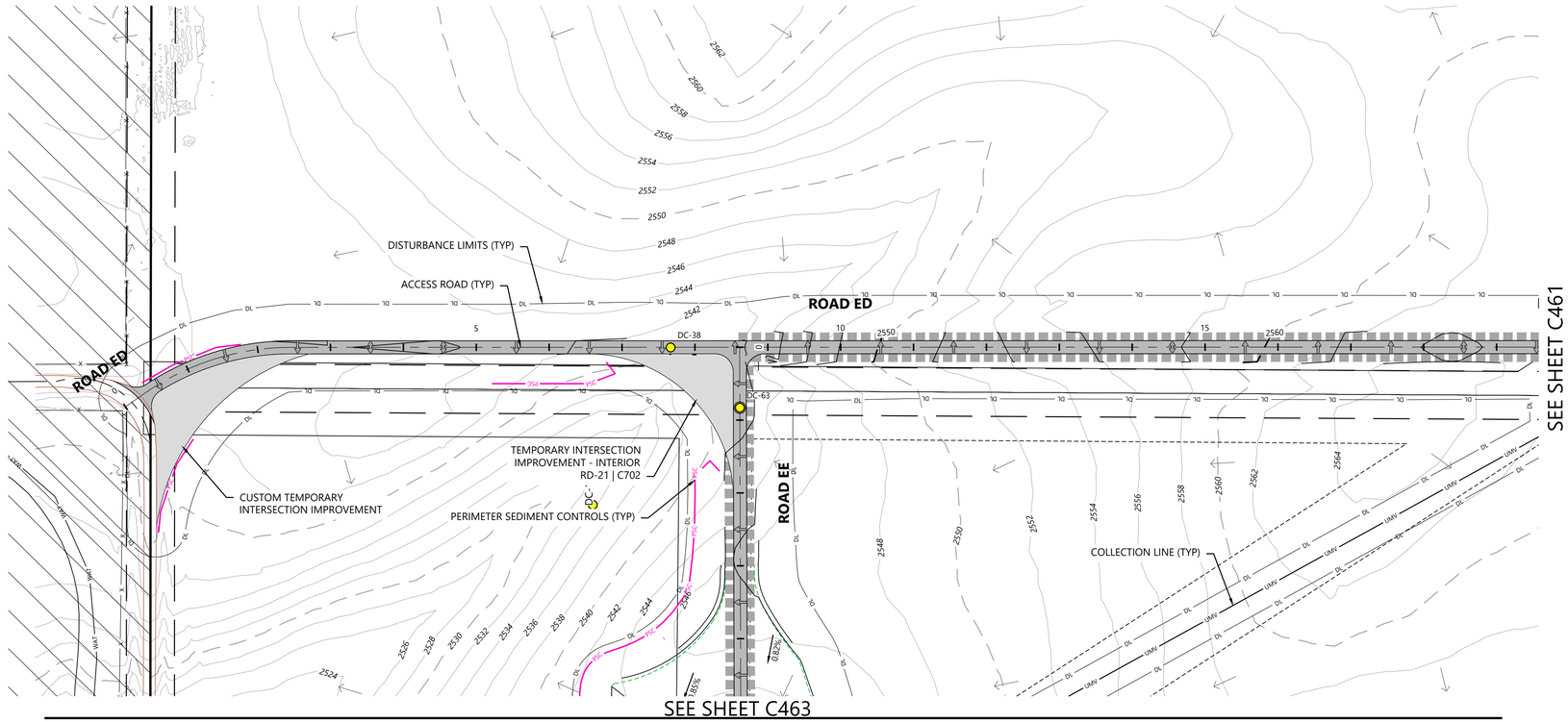
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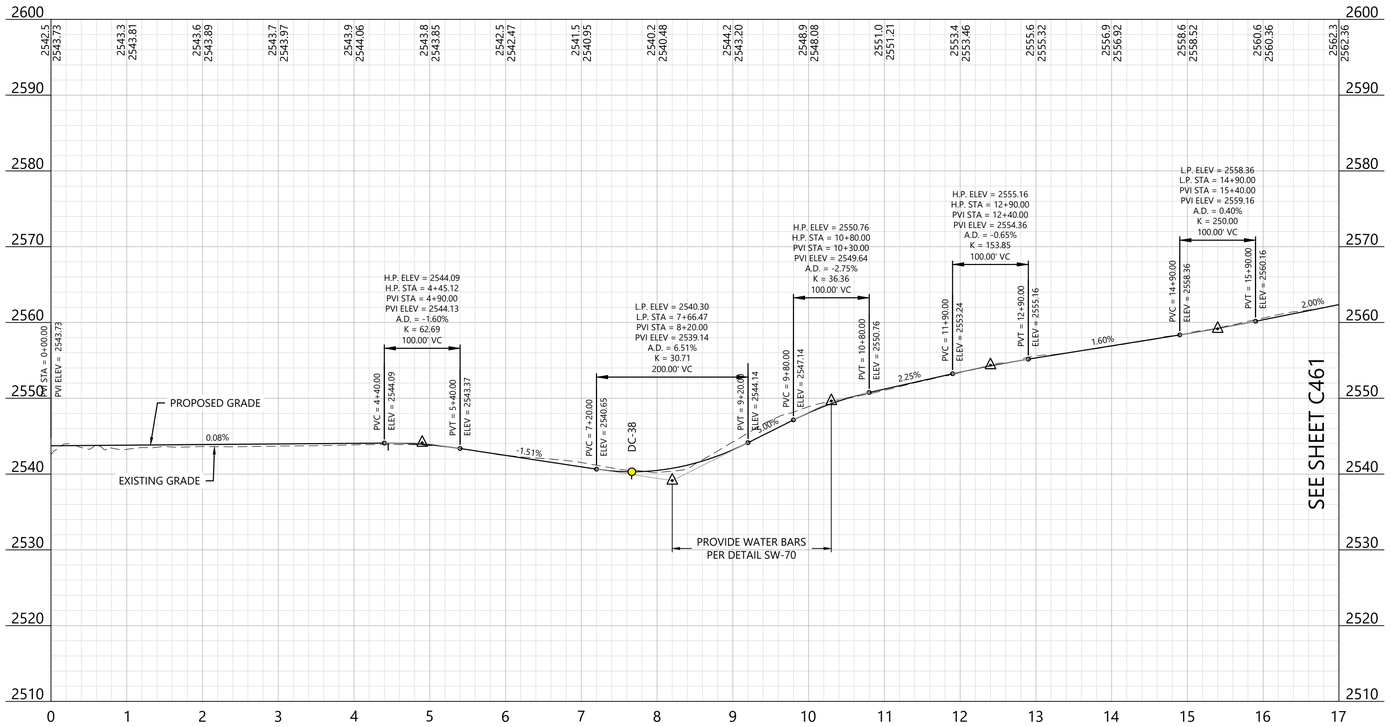
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LEGEND:

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- EASEMENT LINES
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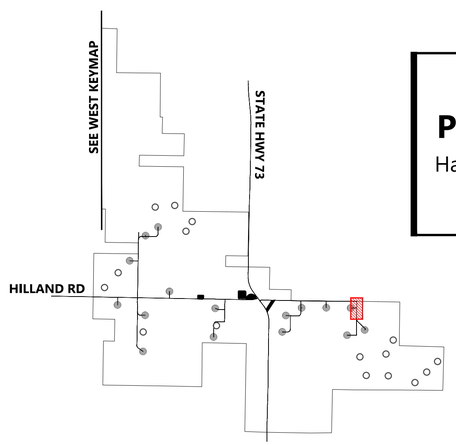
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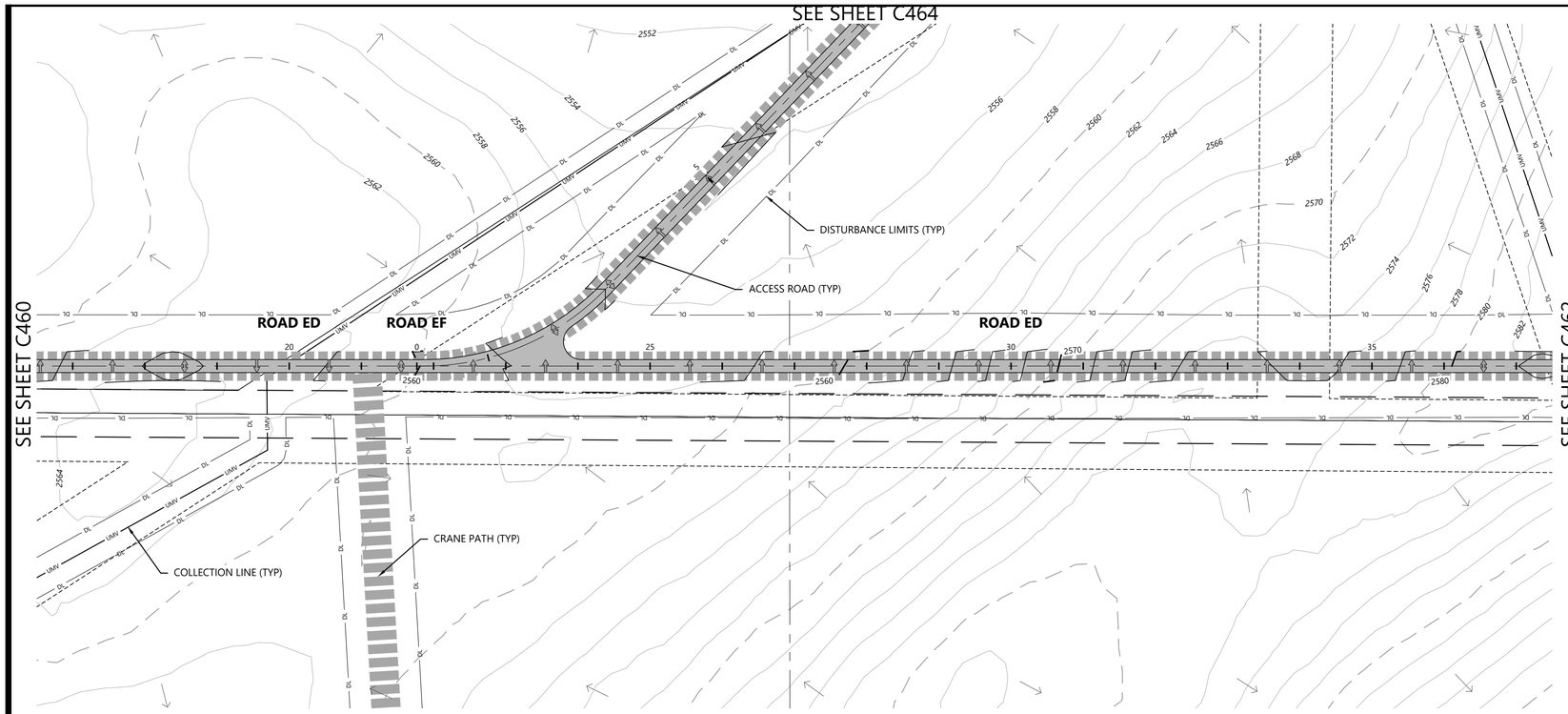
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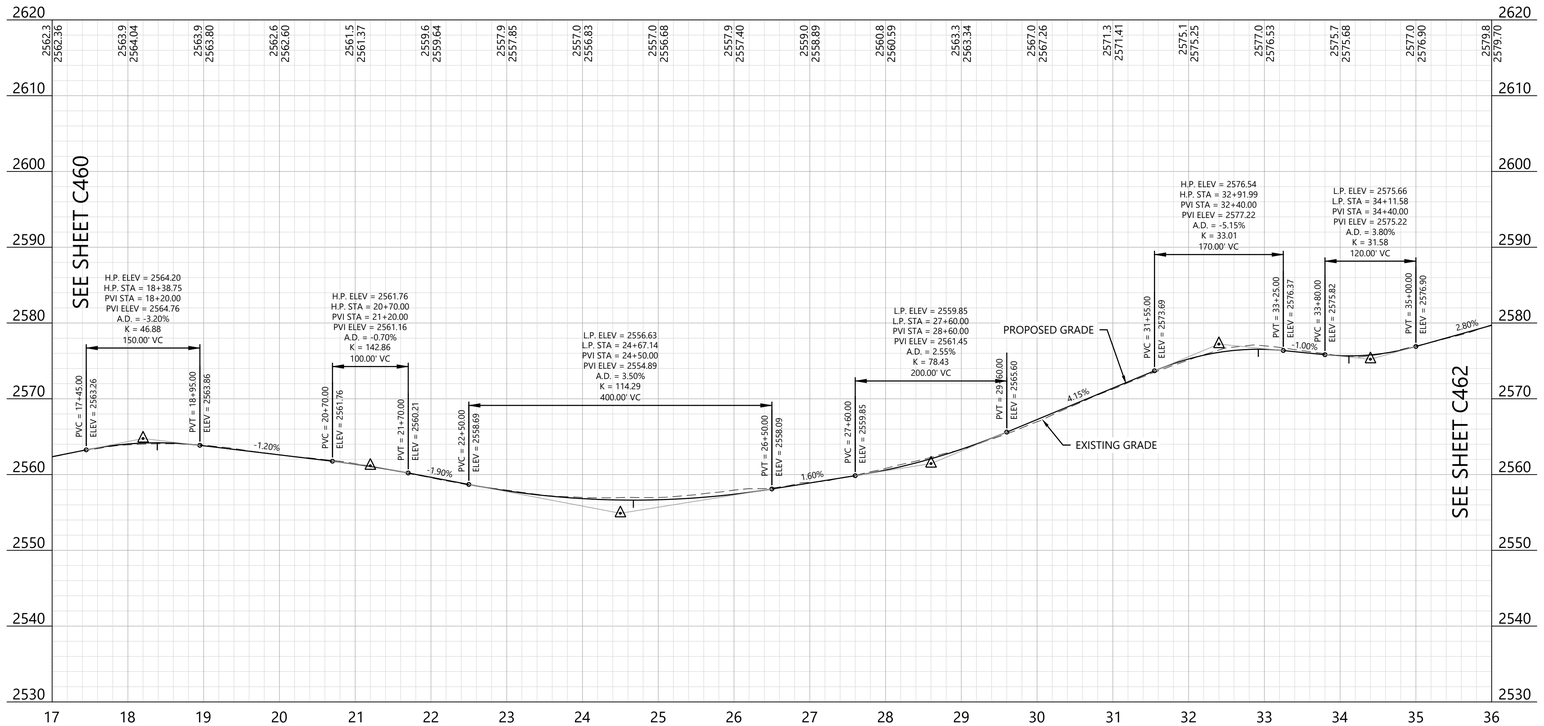
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SHEET: C460

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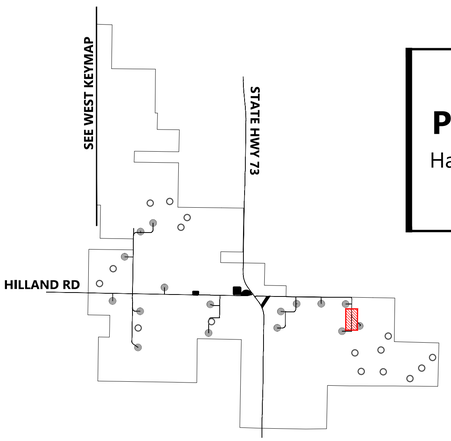
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   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

EAST KEYMAP:



Westwood

Phone (281) 883-0103
Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELFORD
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD ED - Sta. 17+00.00 to 36+00.00

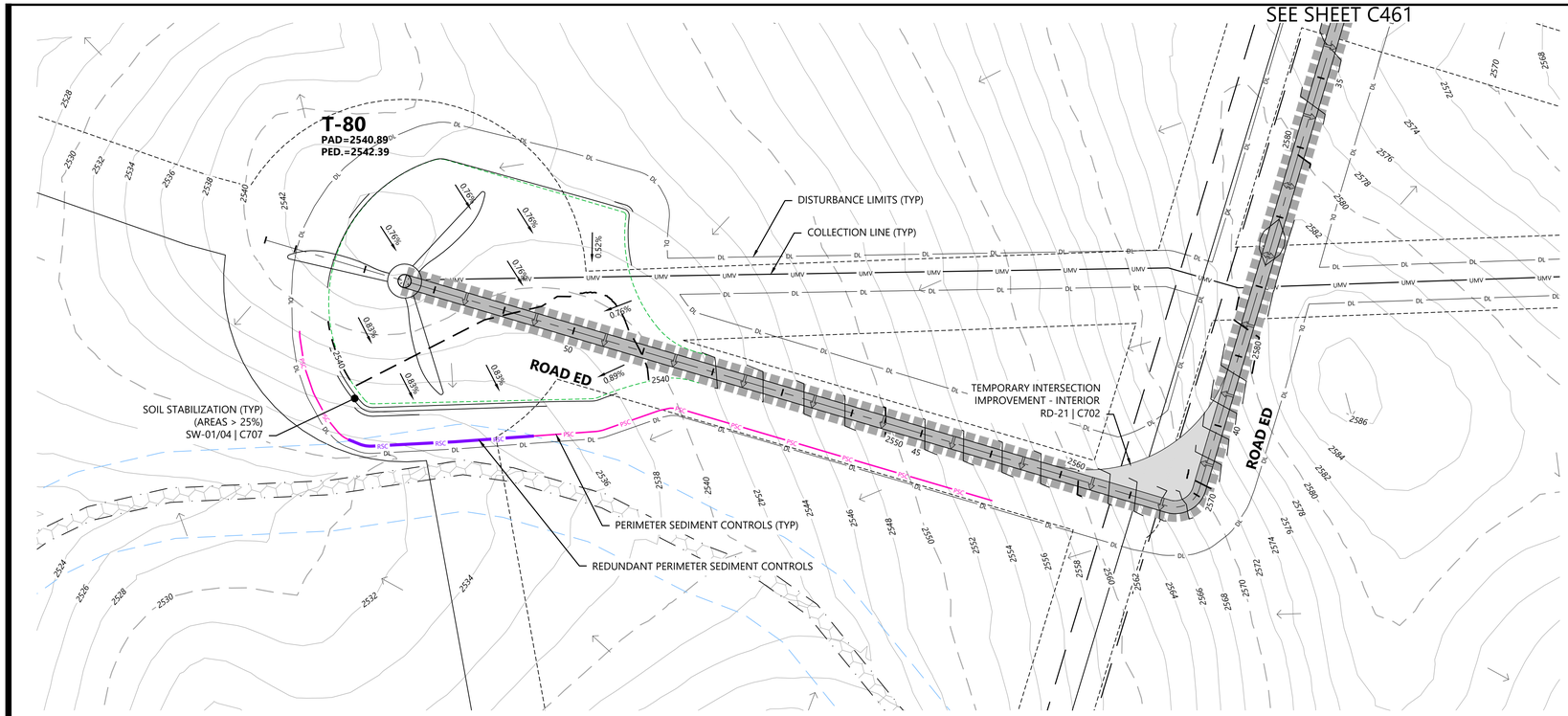
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NOT FOR CONSTRUCTION

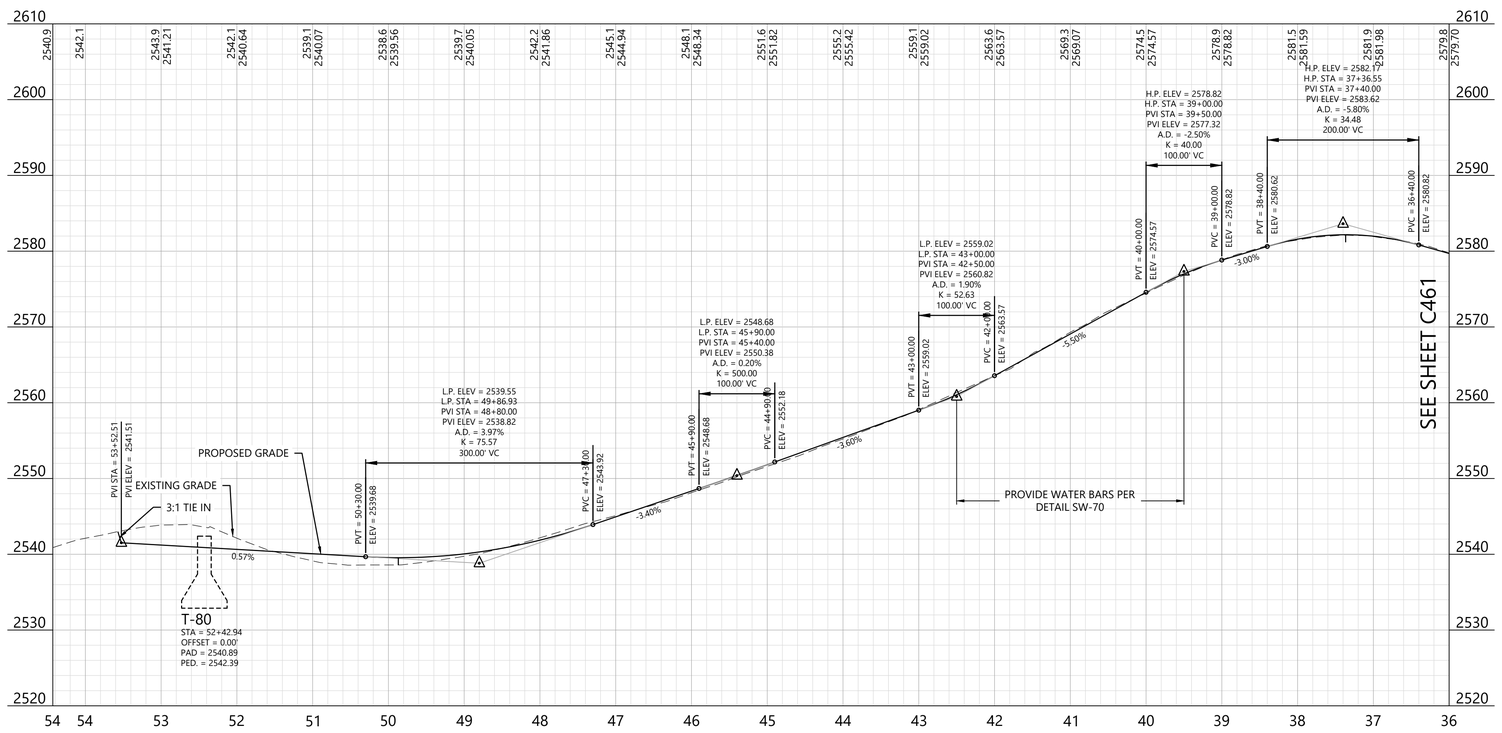
DATE: 05/07/2026

SHEET: C461

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
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- OVERHEAD TRANSMISSION
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- REDUNDANT PSC
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- FENCE CROSSING
- UTILITY CROSSING
- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

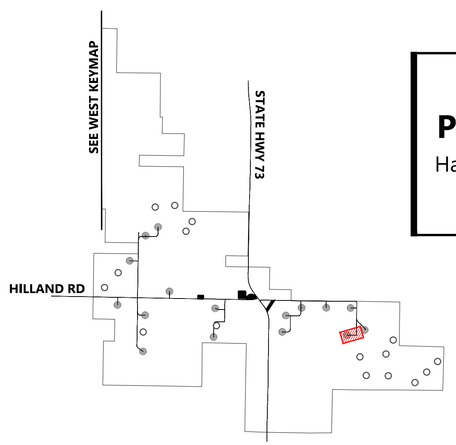
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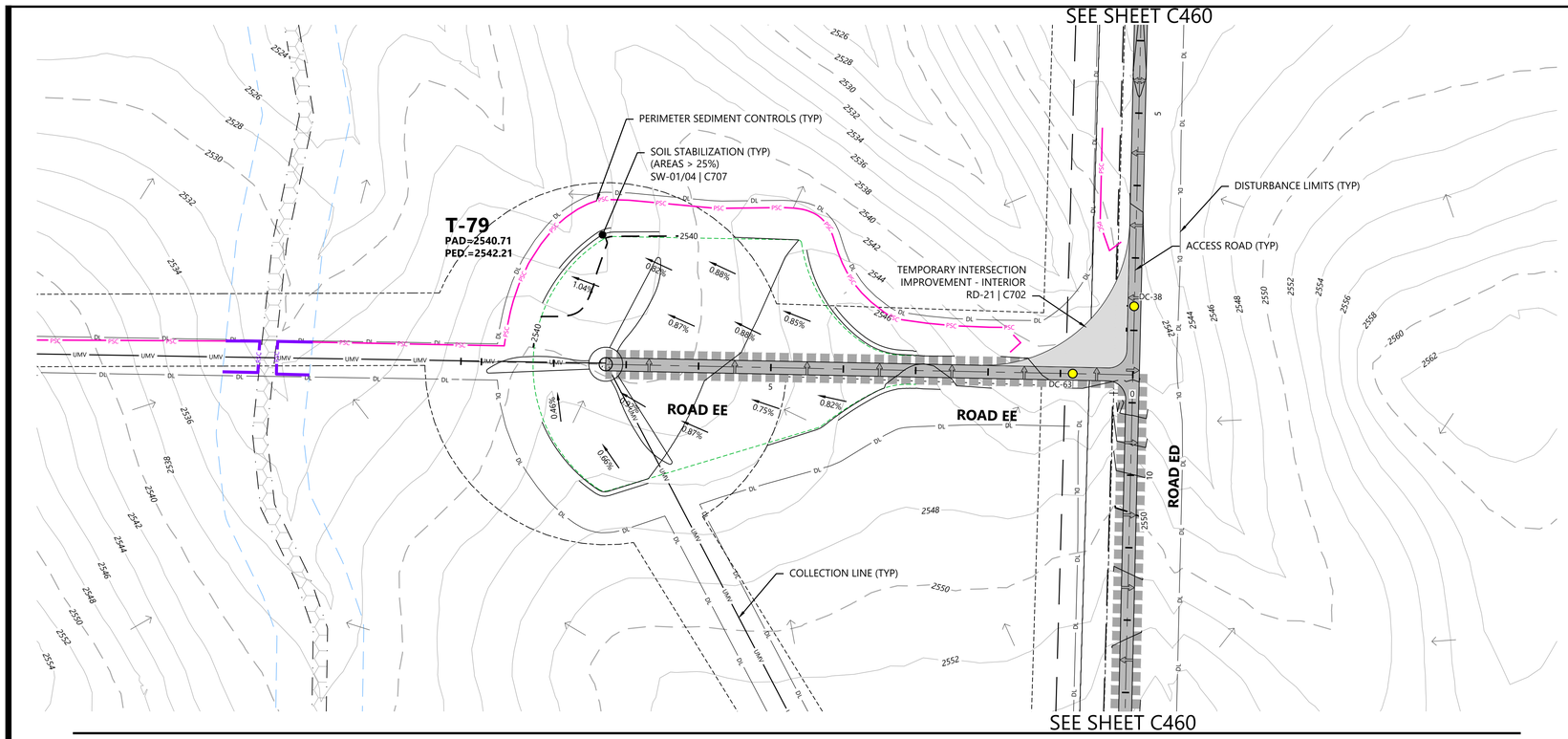
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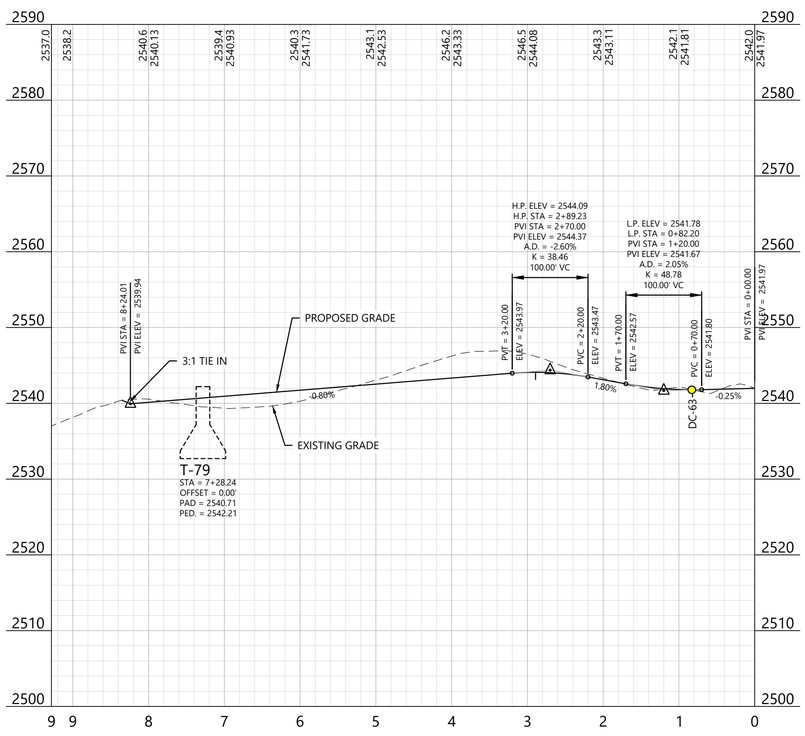
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SHEET: C462

REV: B

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
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- SURVEY CORRIDOR
- PARCEL LINES
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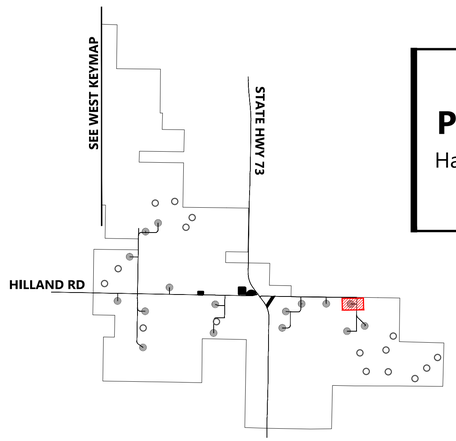
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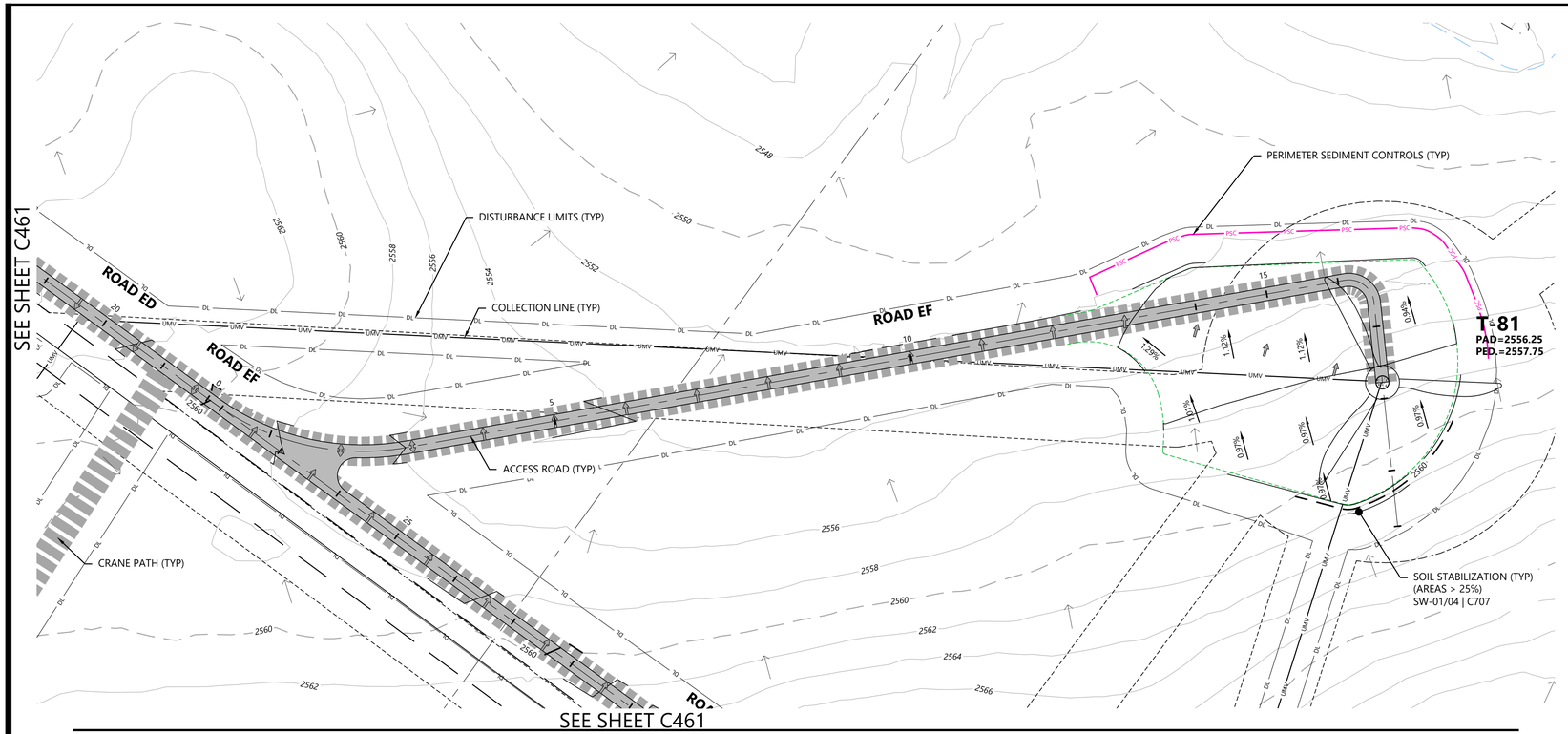
Philip Wind Project
Haakon County, South Dakota

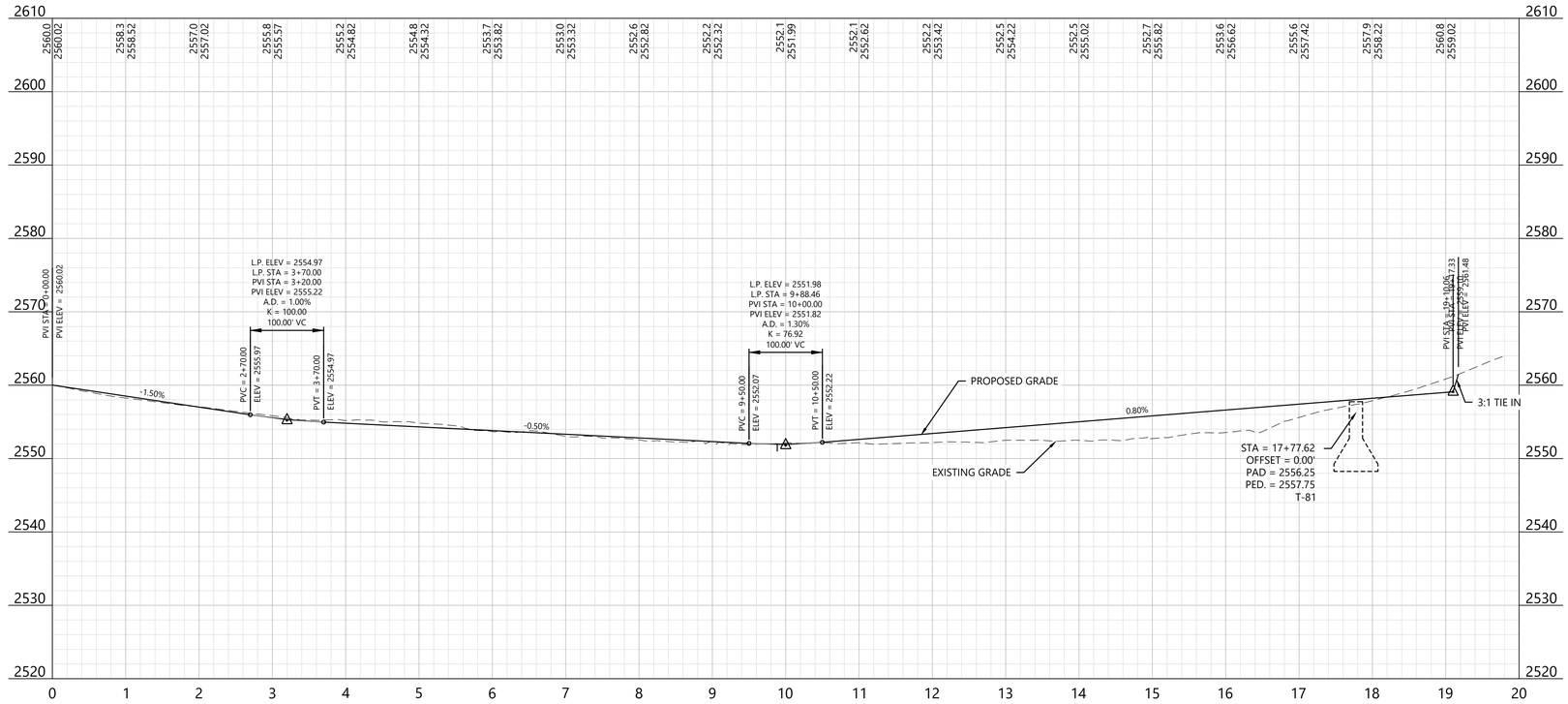
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ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C463
REV: B

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LEGEND:

EXISTING:

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- EASEMENT LINES
- SURVEY CORRIDOR
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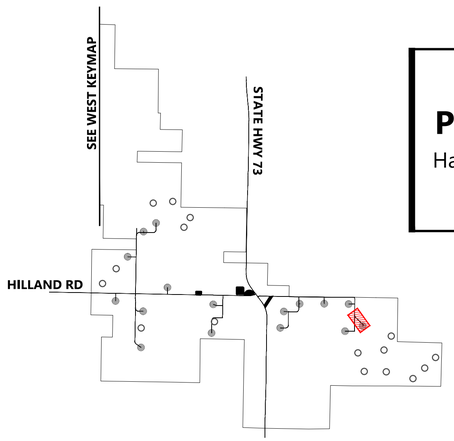
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Philip Wind Project

Haakon County, South Dakota

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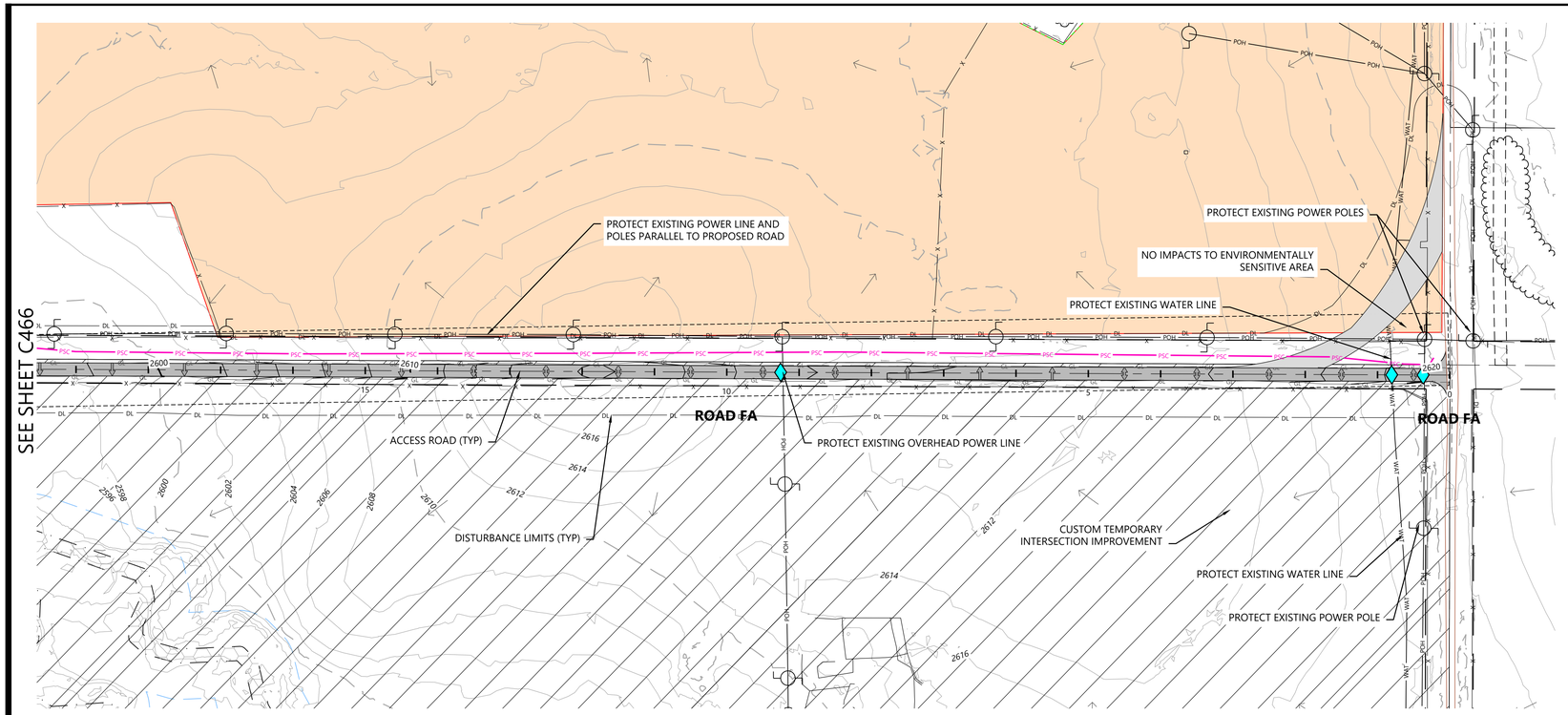
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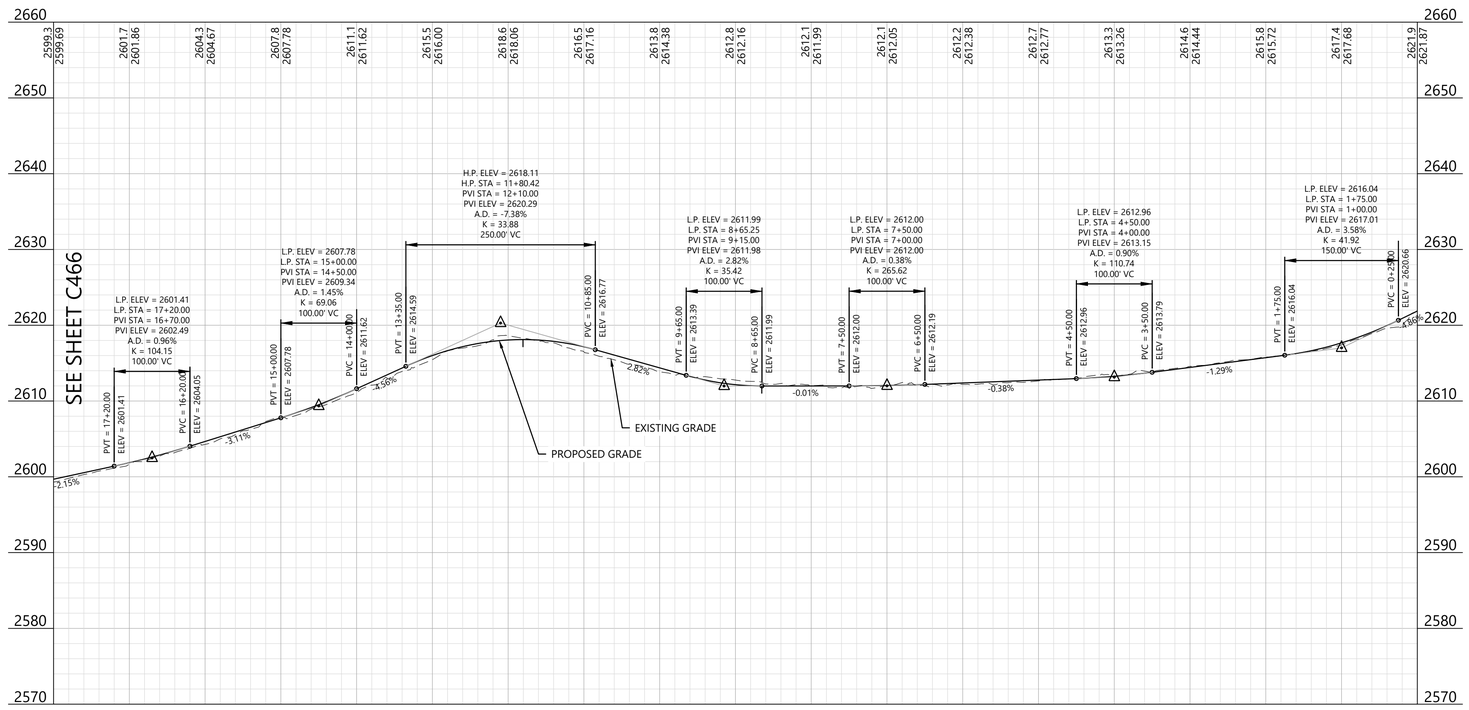
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SHEET: C464

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LEGEND:

EXISTING:

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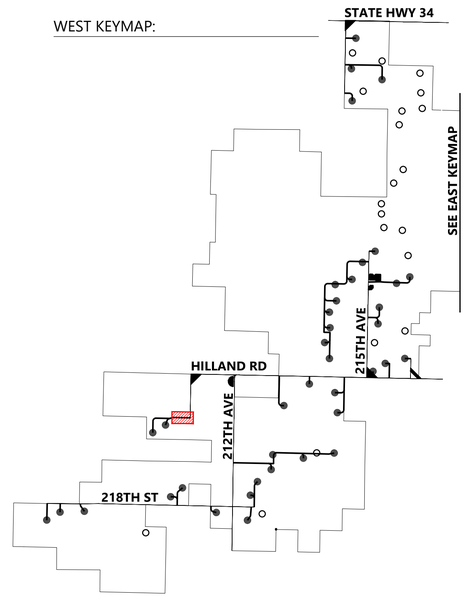
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0+00.00 to 18+00.00

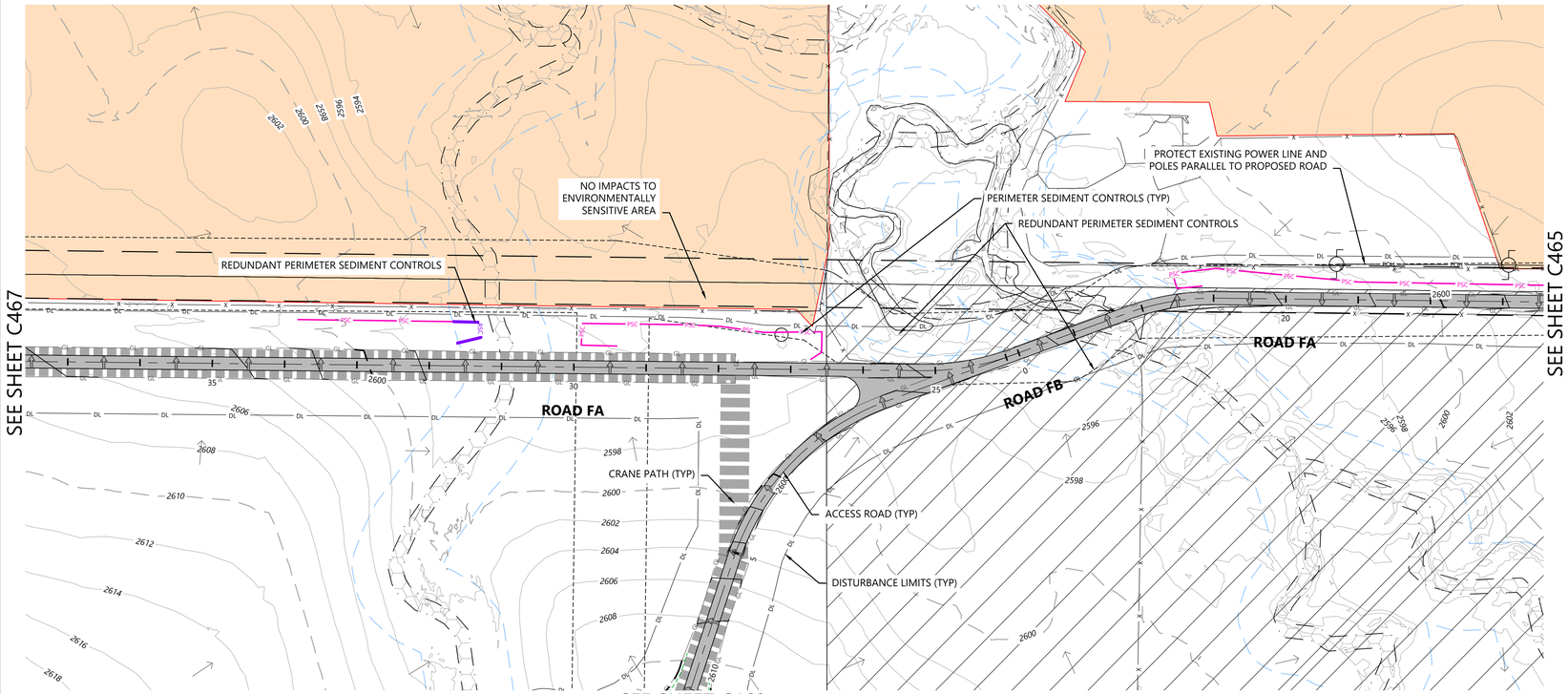
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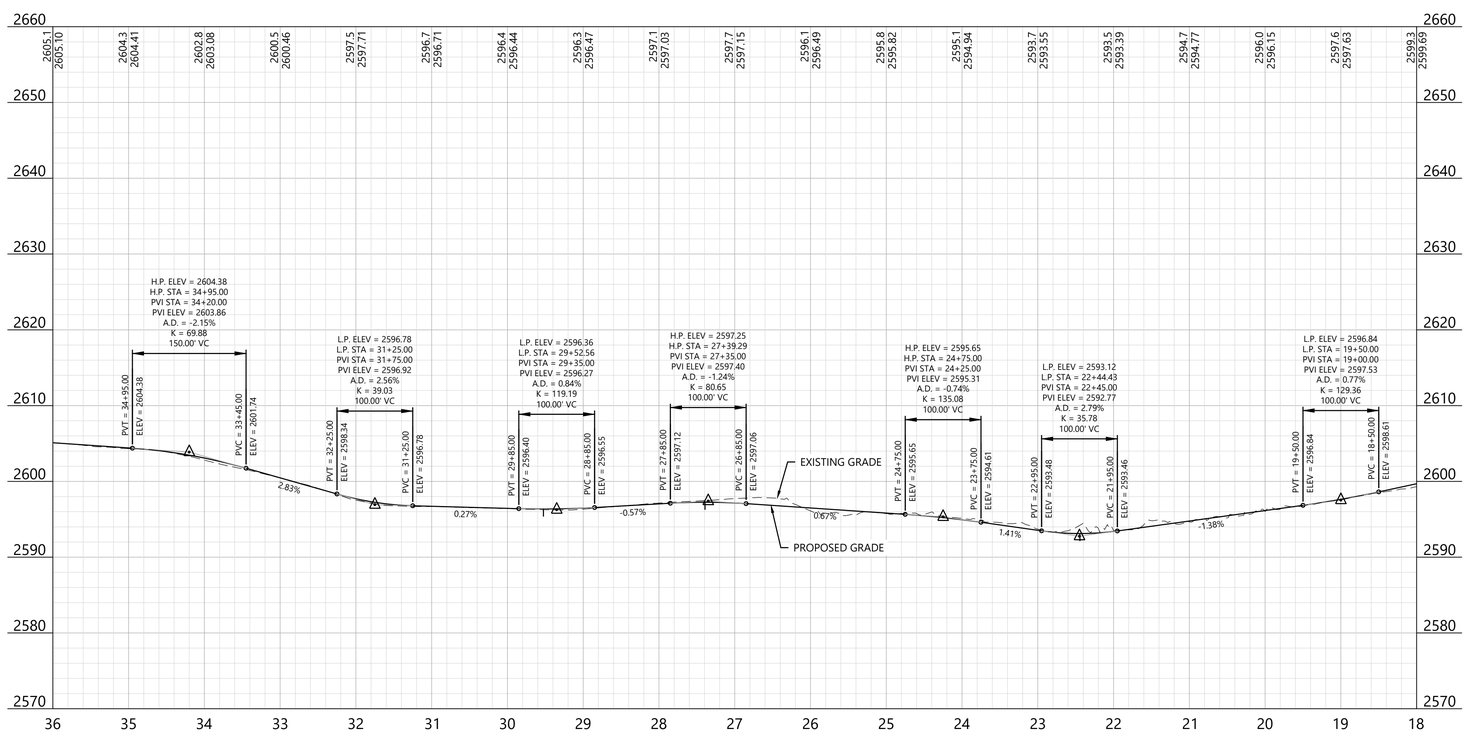
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SHEET: C465

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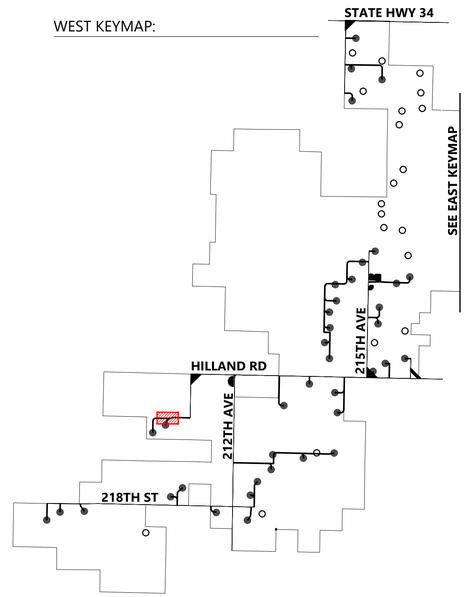
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WEST KEYMAP:



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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELESHIAN
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD FA - Sta. 18+00.00 to 36+00.00

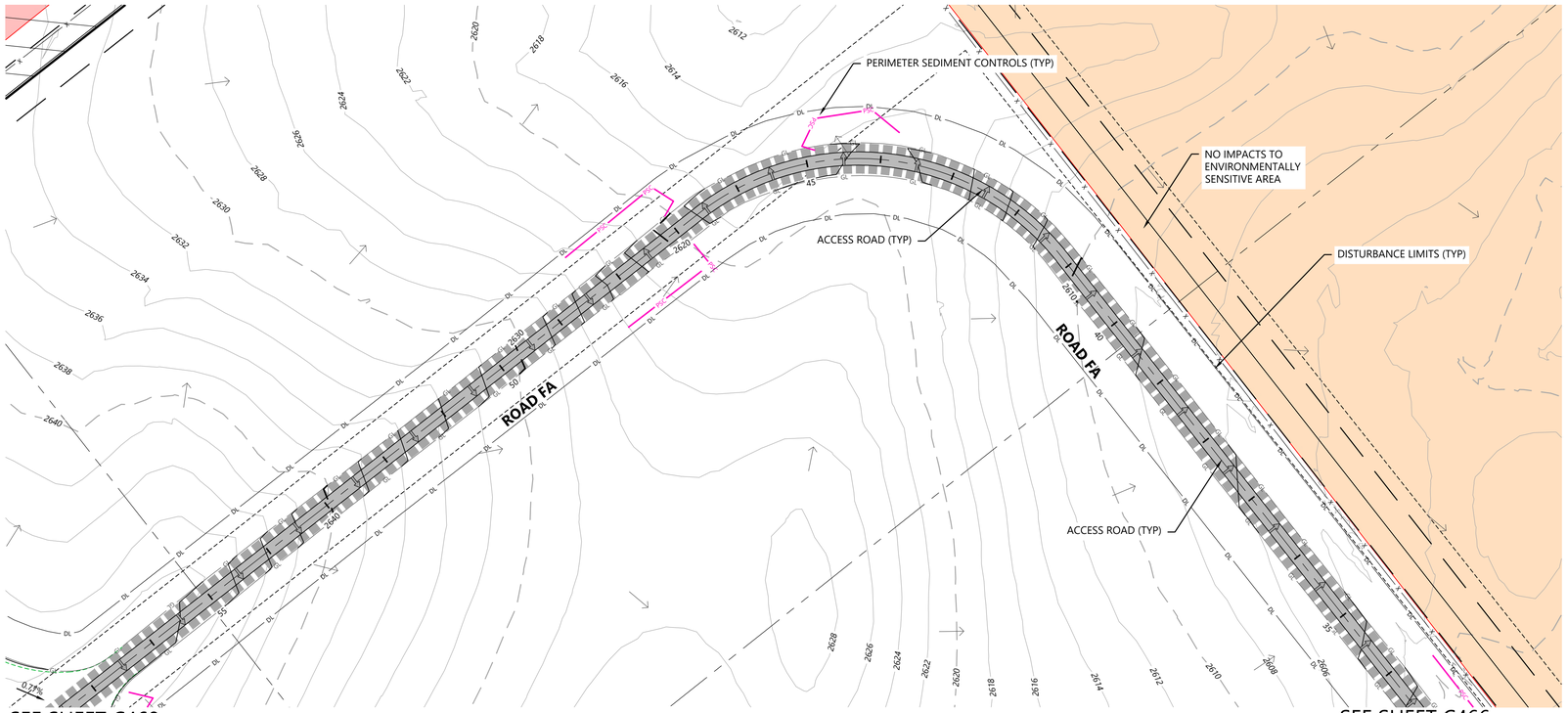
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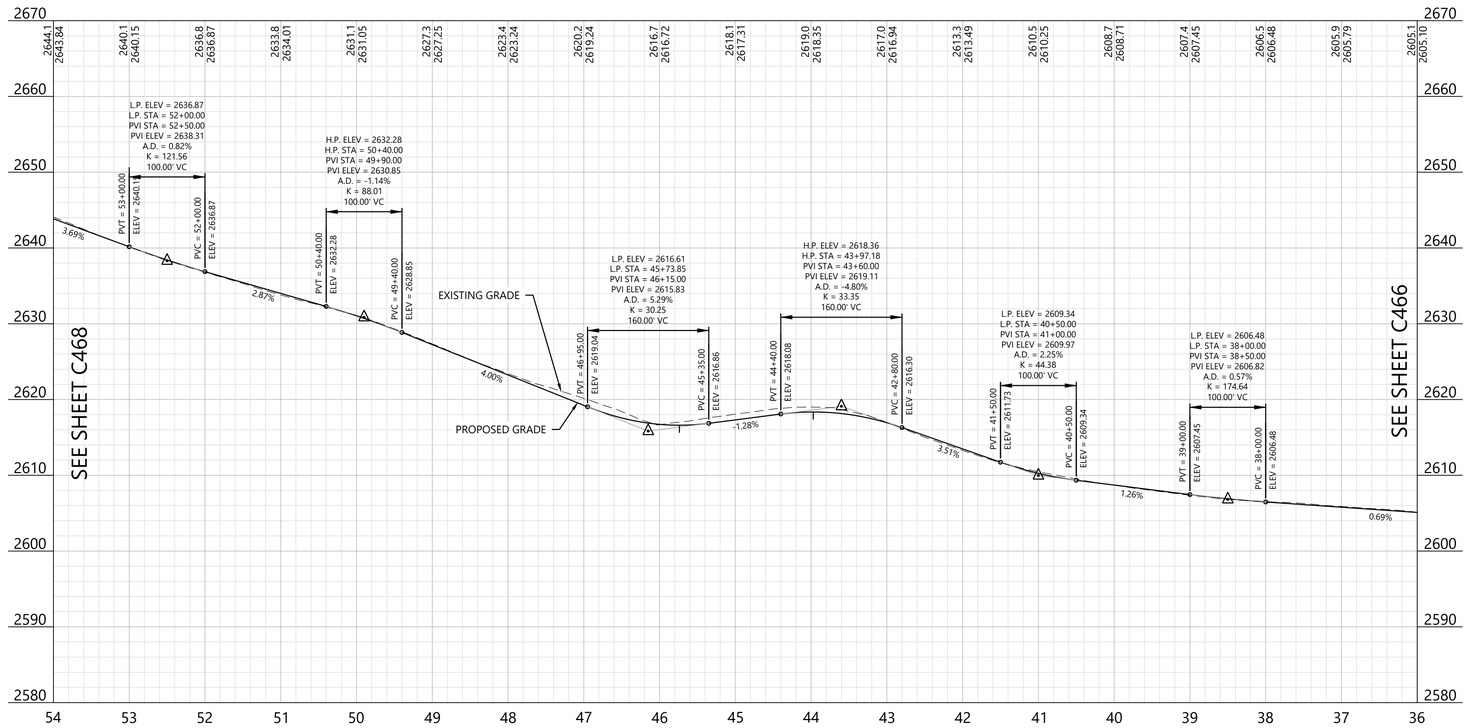
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SHEET: C466

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
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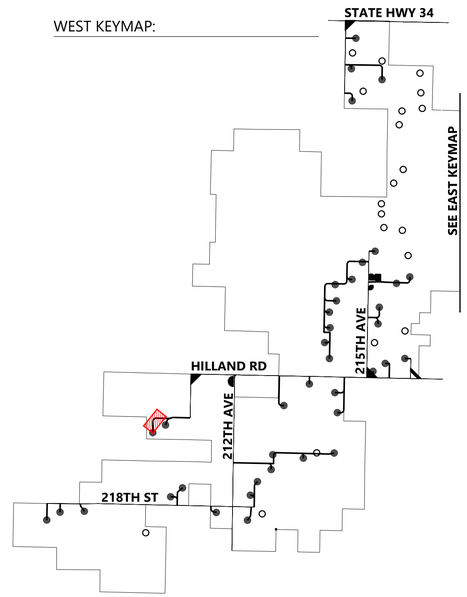
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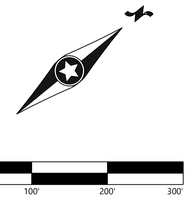
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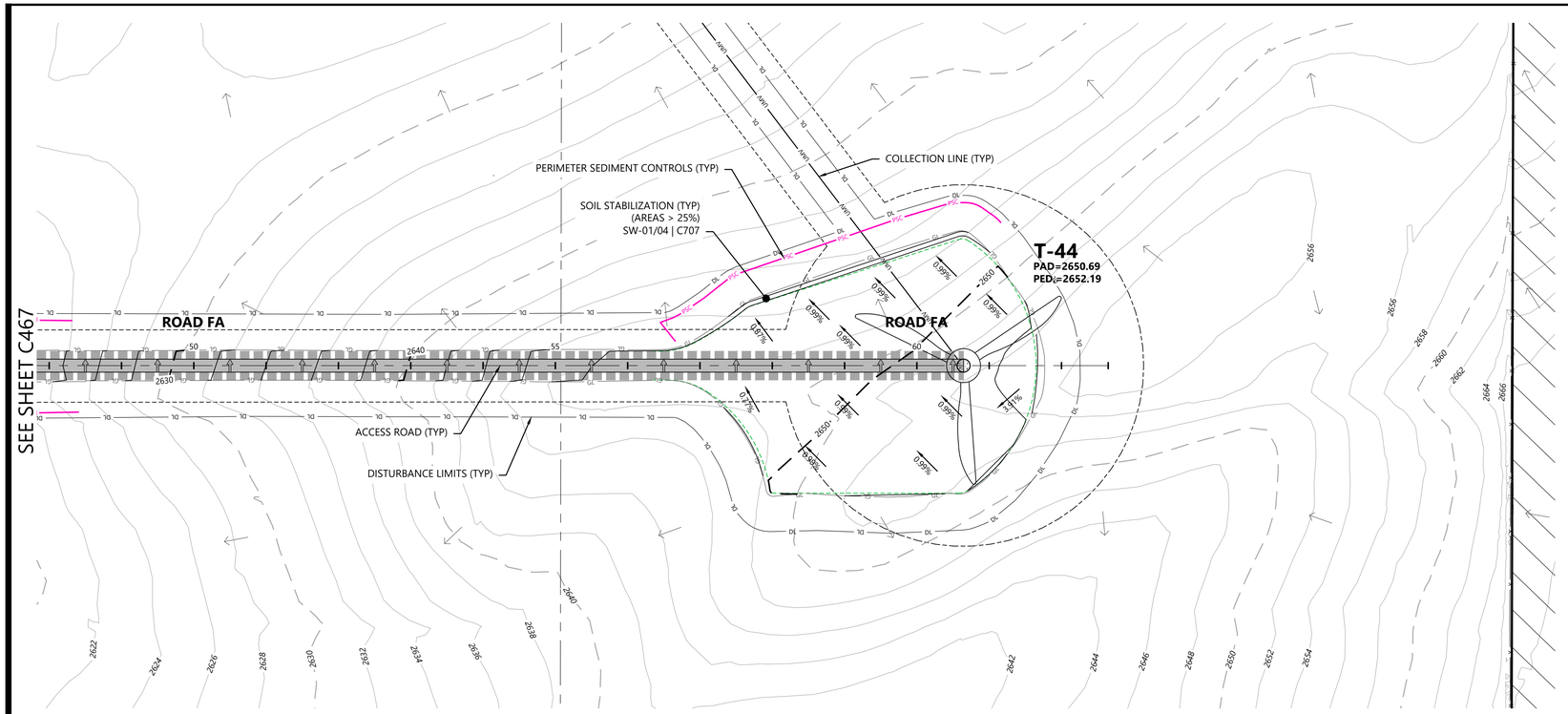
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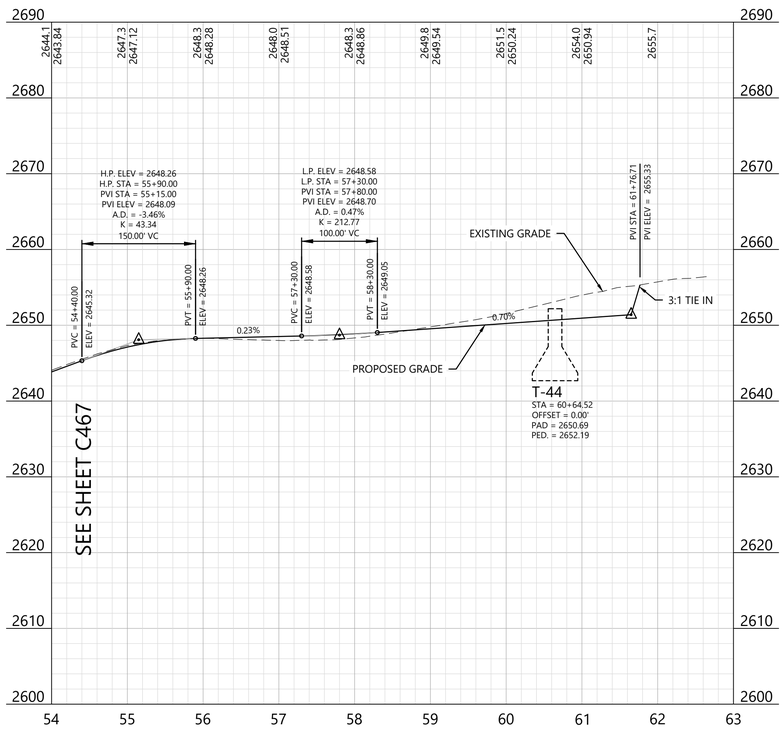
DATE: 05/07/2026

SHEET: C467

REV: B

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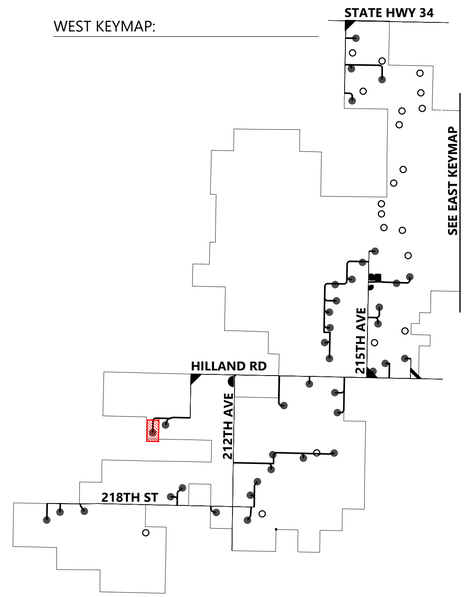
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Philip Wind Project

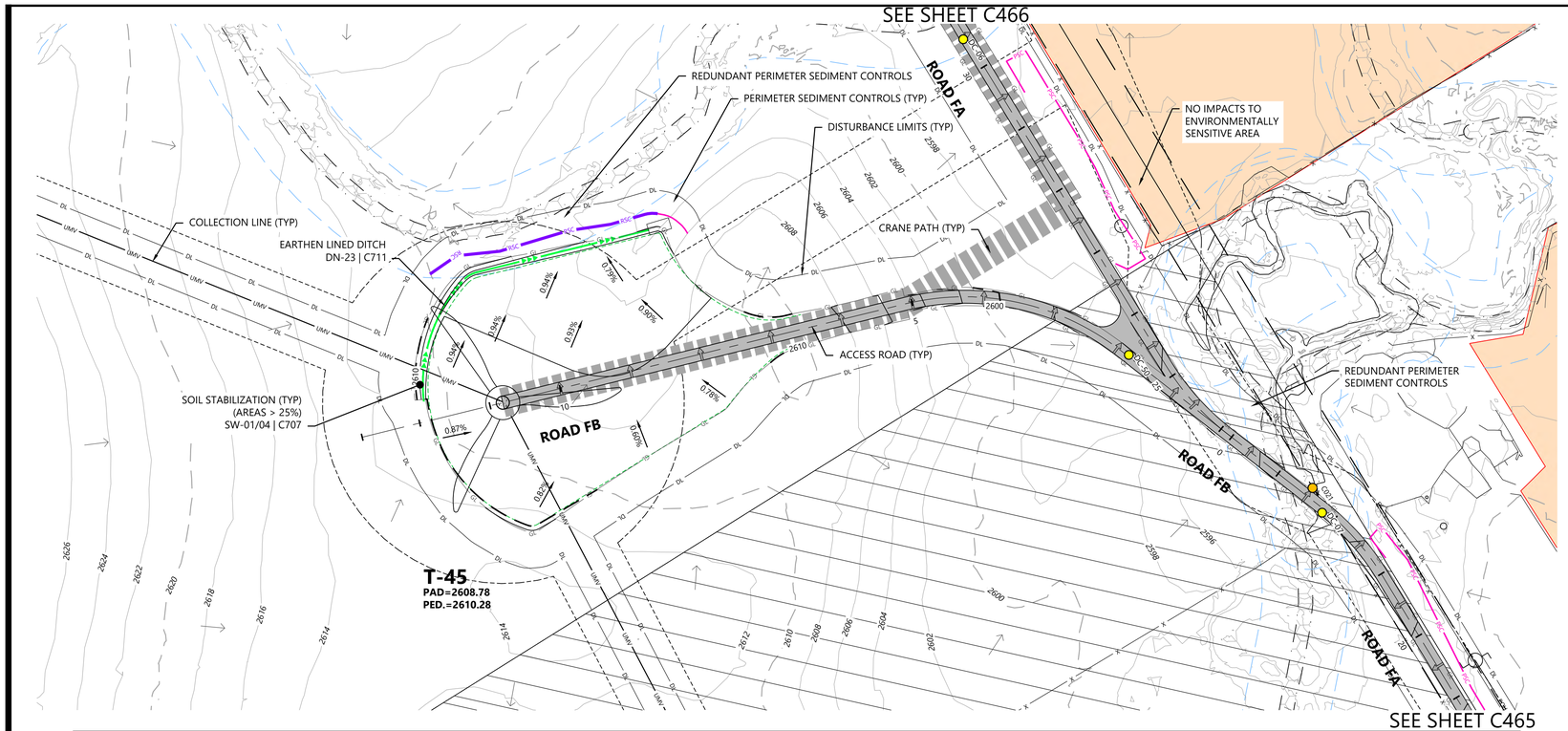
Haakon County, South Dakota

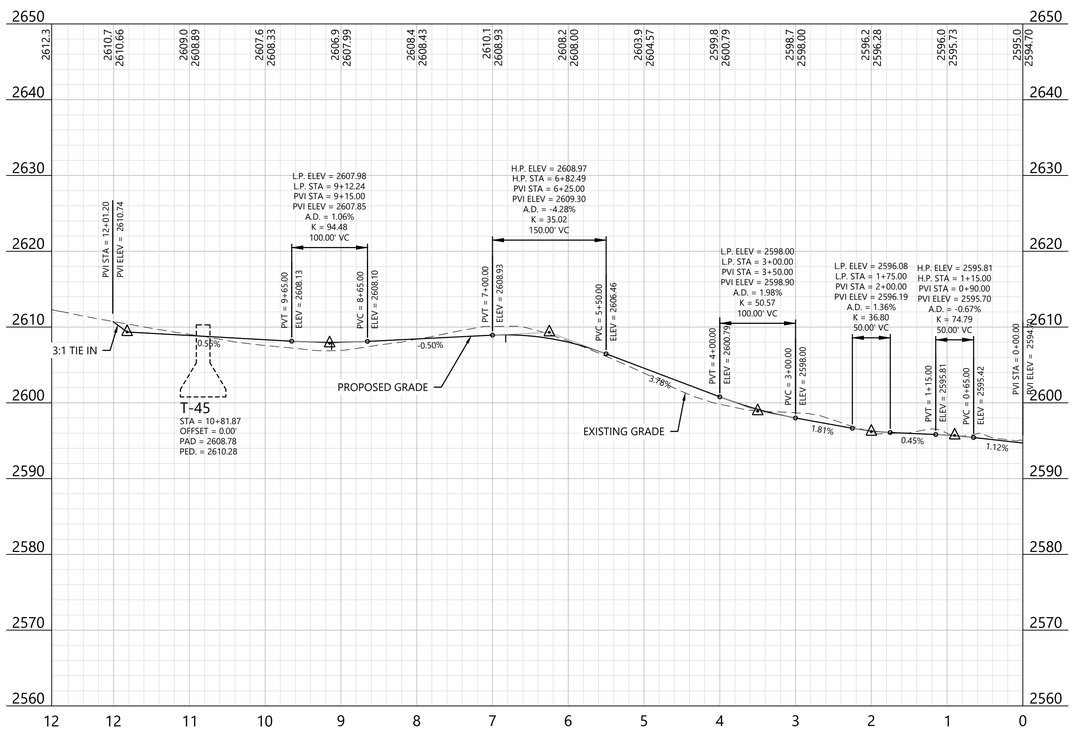
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ISSUED FOR PERMIT
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DATE: 05/07/2026
SHEET: C468
REV: B

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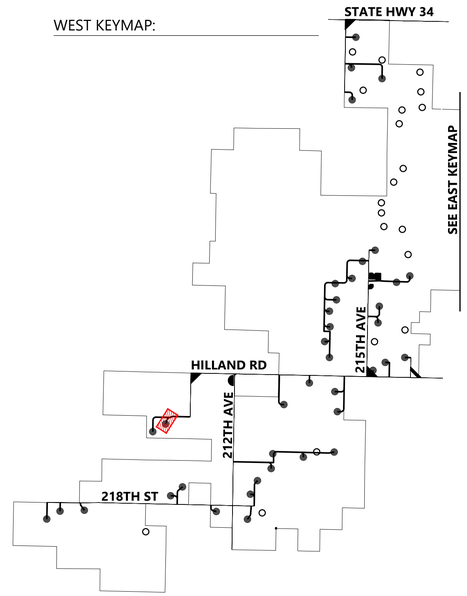
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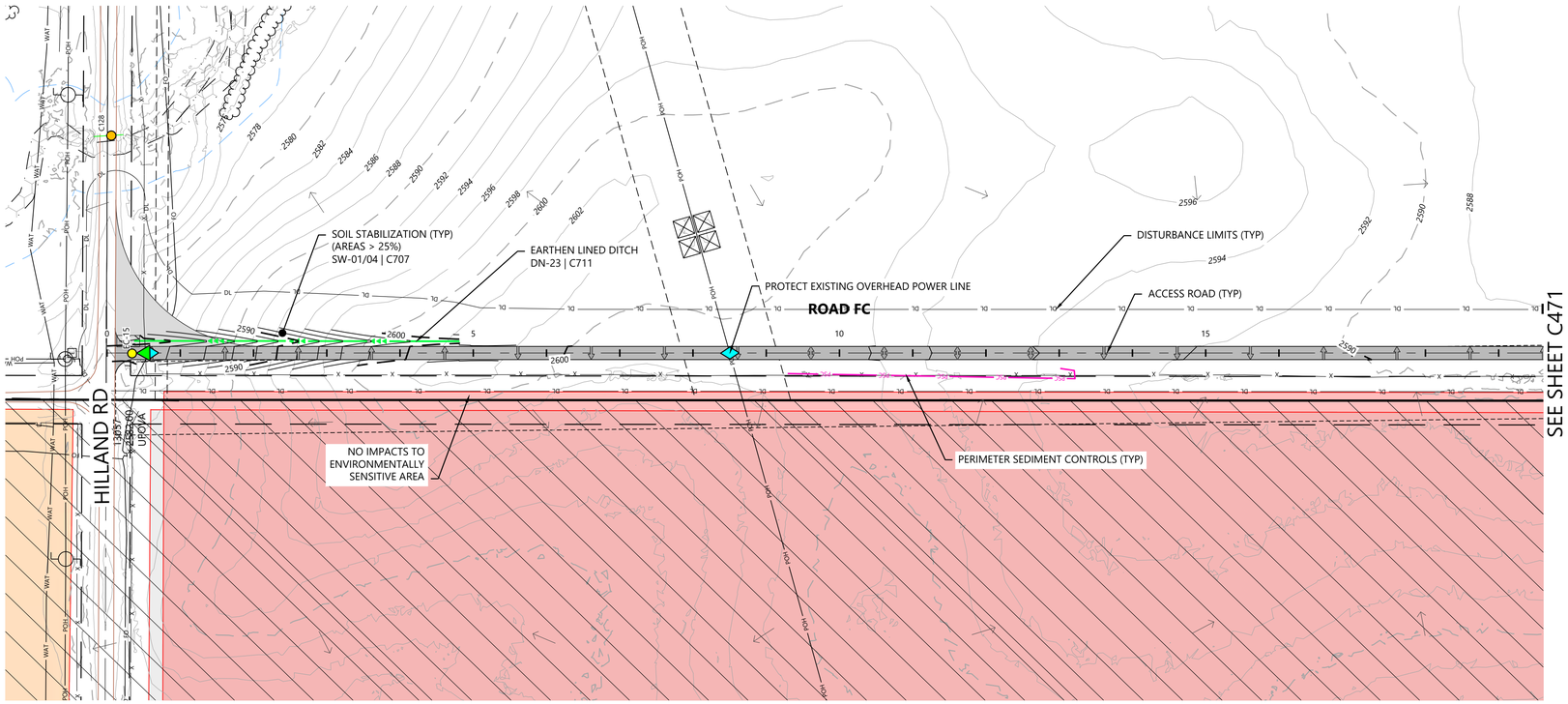
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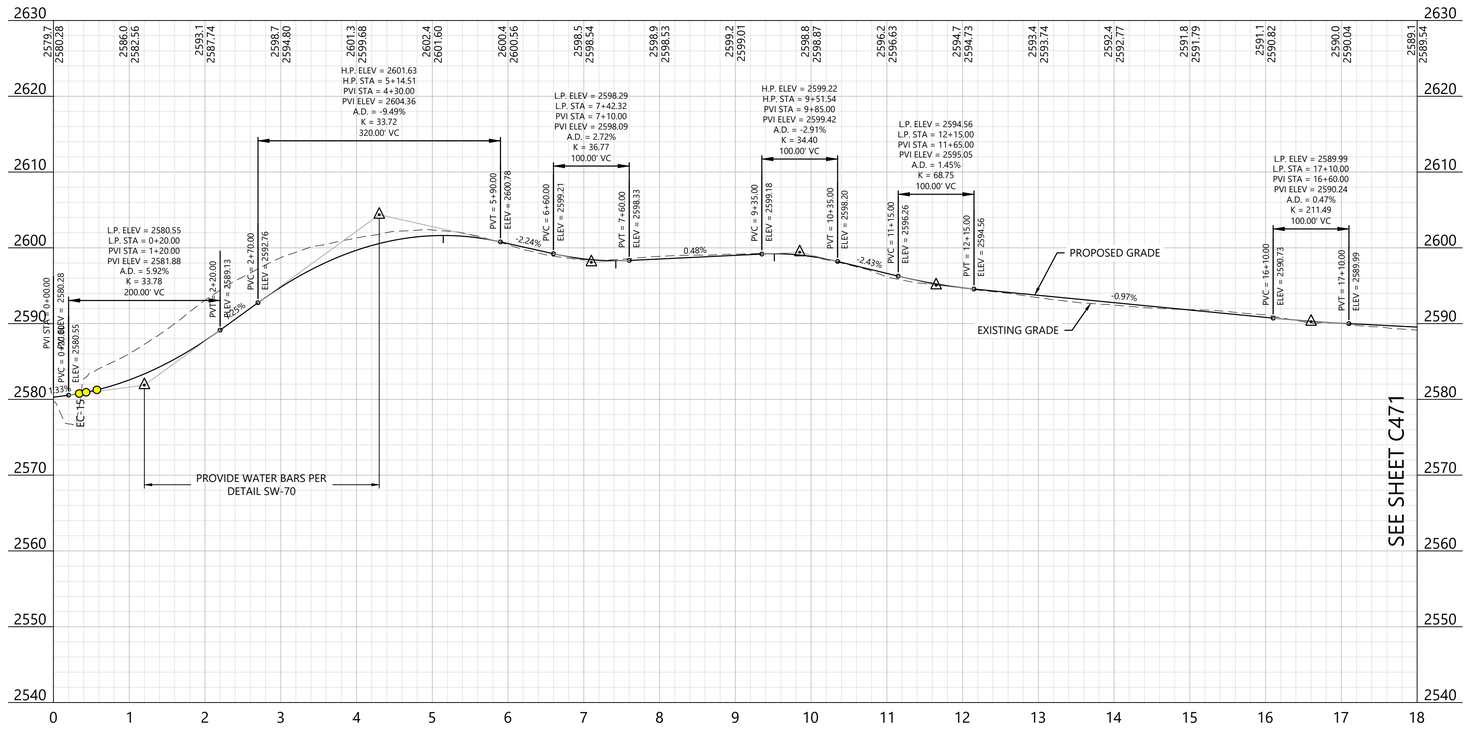
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SHEET: C469

REV: B

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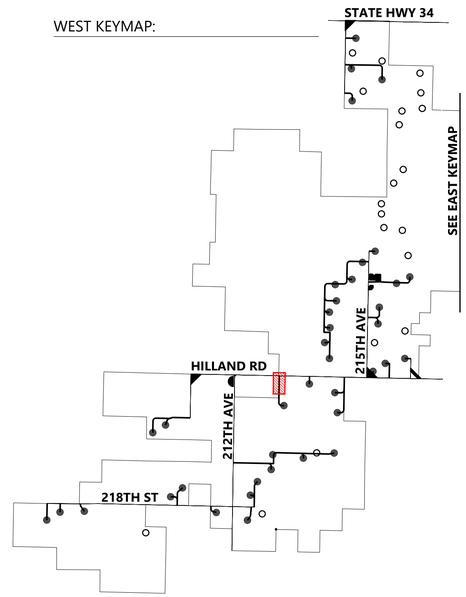
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Philip Wind Project

Haakon County, South Dakota

ROAD FC - Sta.
0+00.00 to 18+00.00

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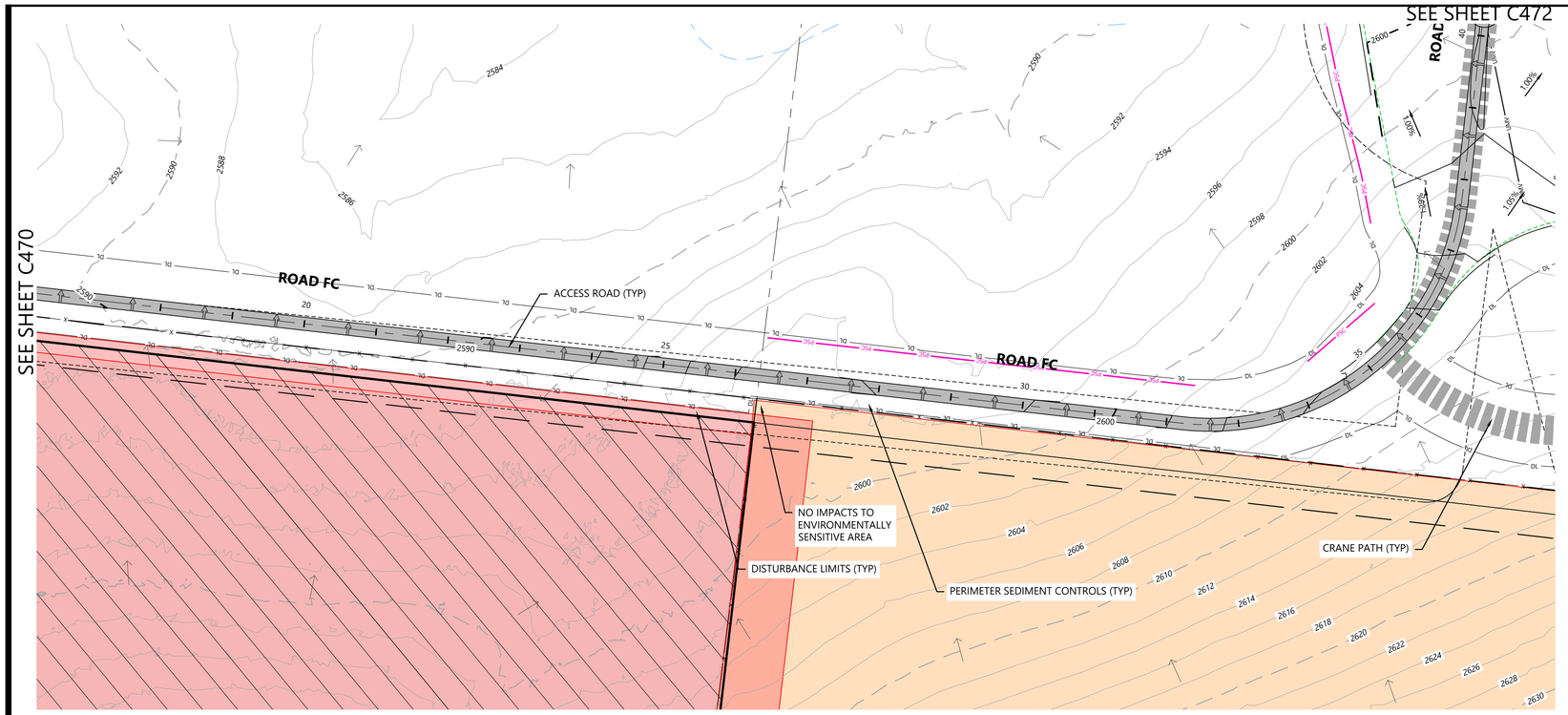
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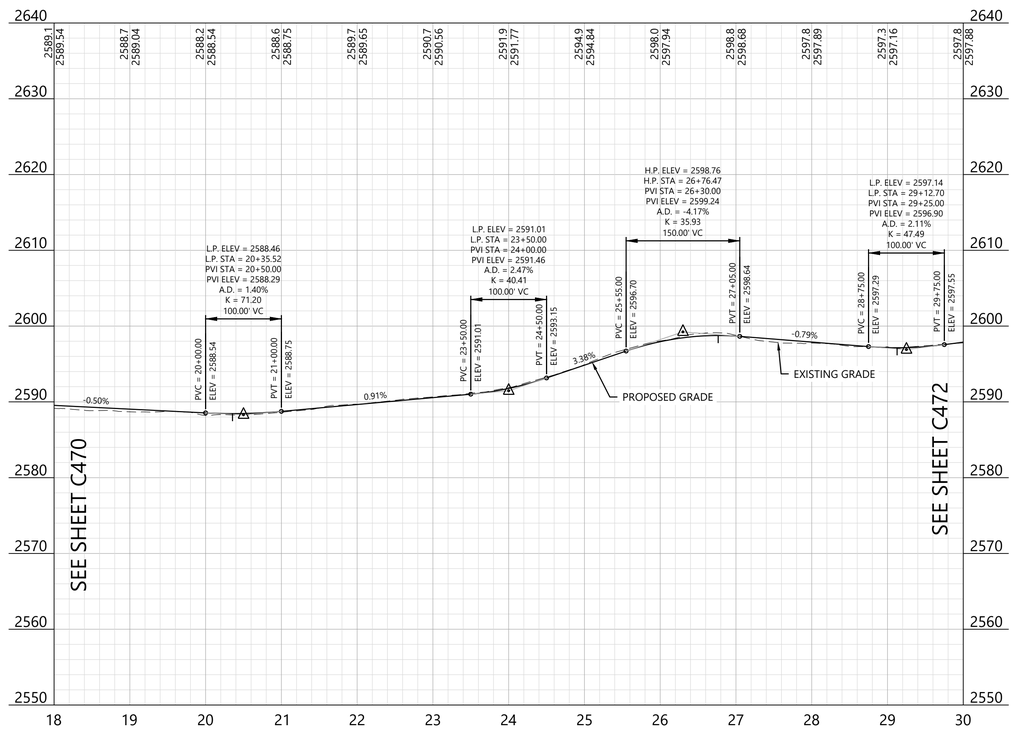
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- TREELINE
- GRAVEL ROAD
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- FIBER OPTIC LINE
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- PROJECT FACILITIES

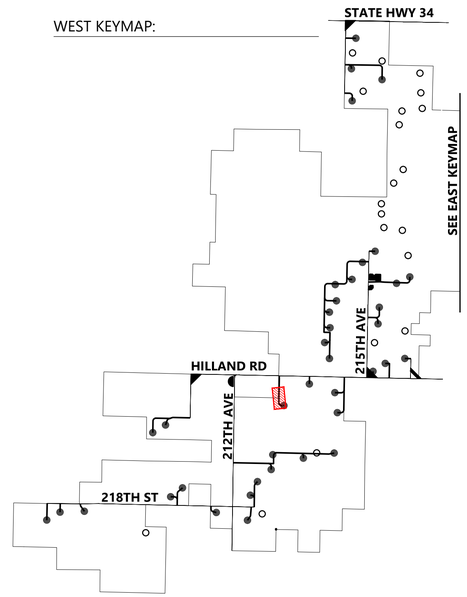
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WEST KEYMAP:



0' 100' 200' 300'

Westwood

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westwoodps.com

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DAVID KELFORD
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

ROAD FC - Sta. 18+00.00 to 30+00.00

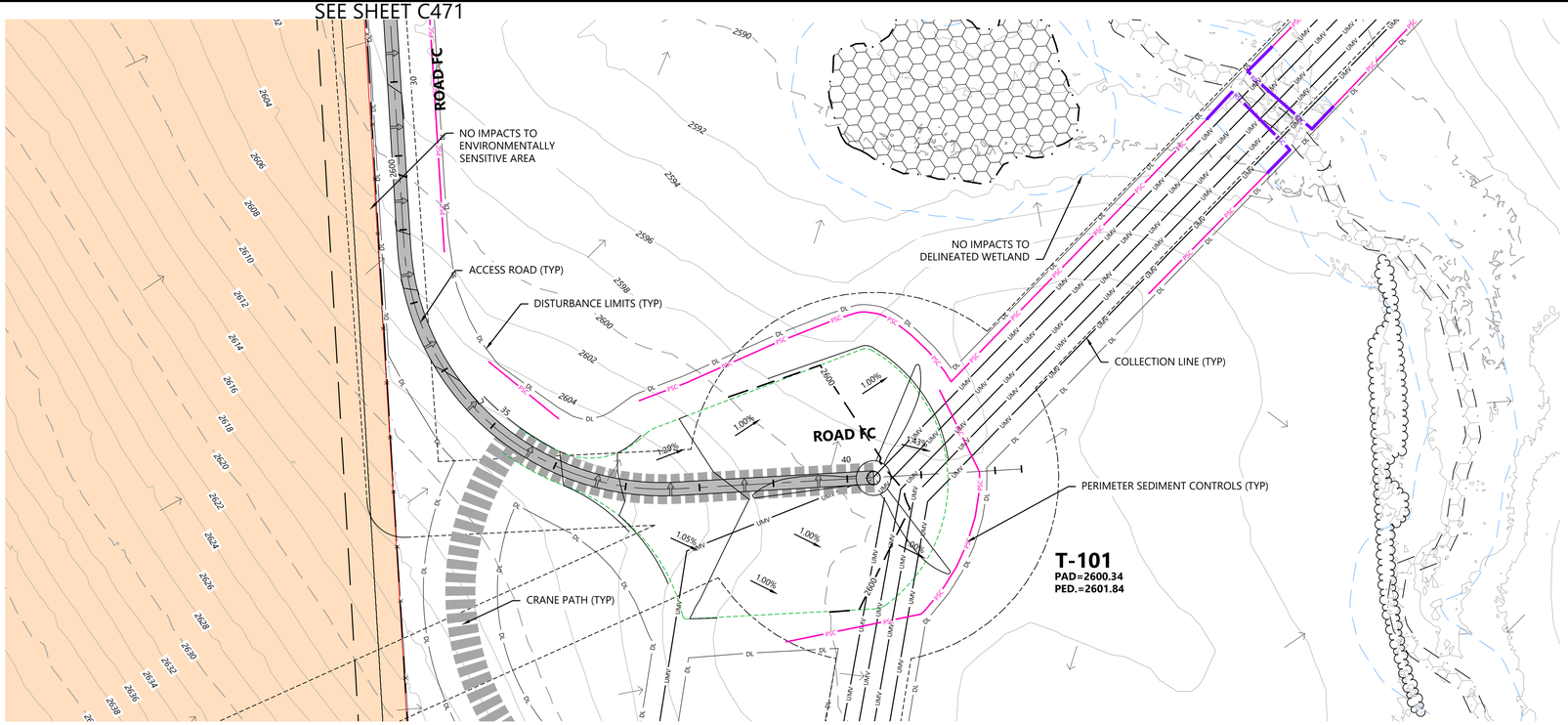
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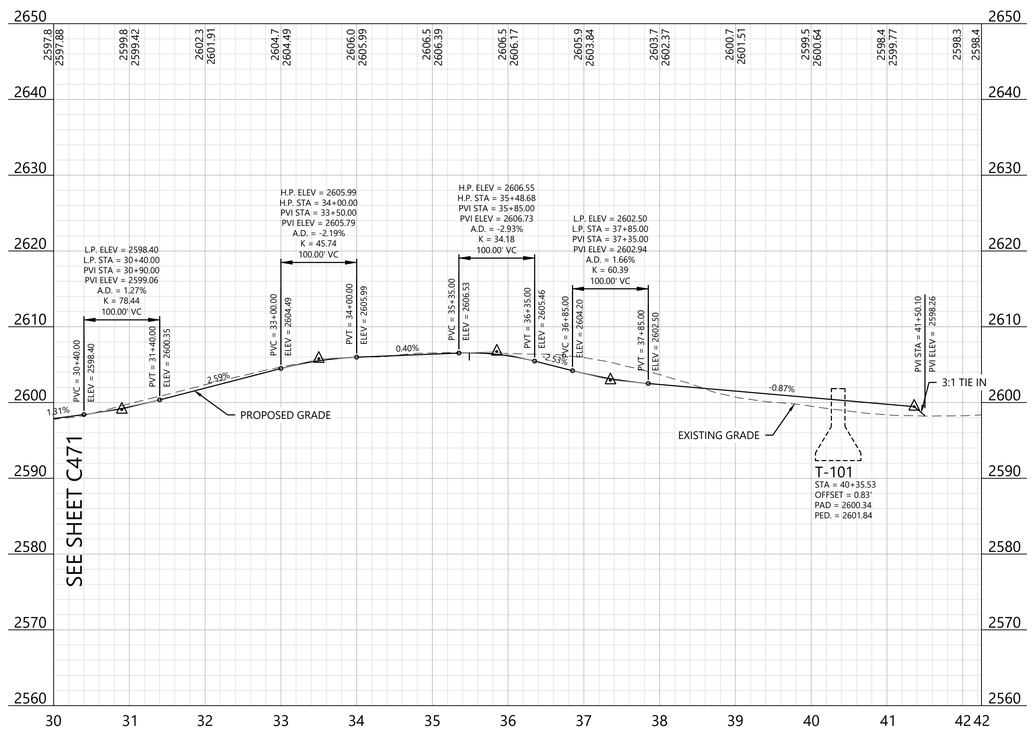
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SHEET: C471

REV: B

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LEGEND:

EXISTING:

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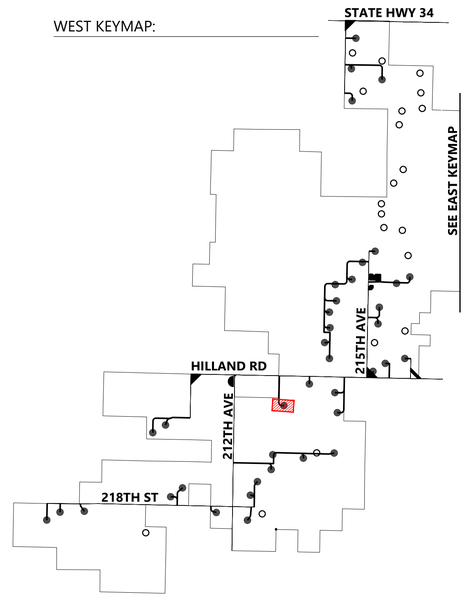
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Philip Wind Project

Haakon County, South Dakota

ROAD FC - Sta. 30+00.00 to End T-101

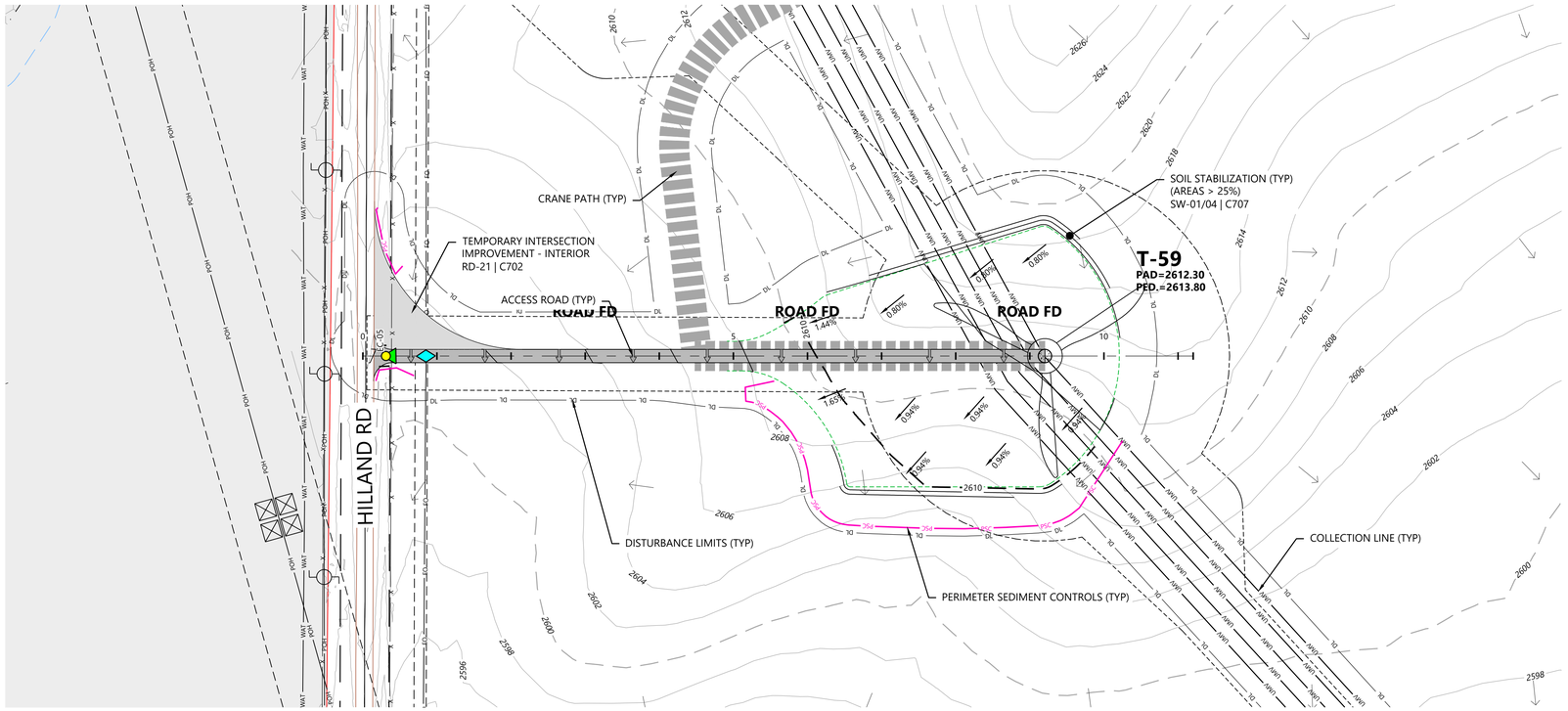
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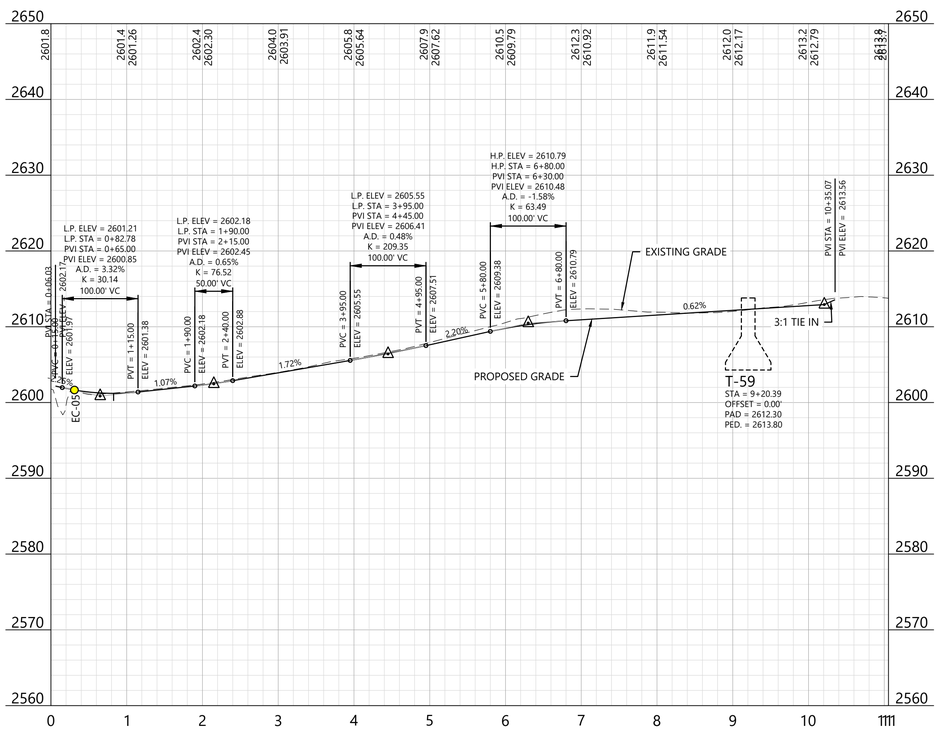
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REV: B

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LEGEND:

EXISTING:

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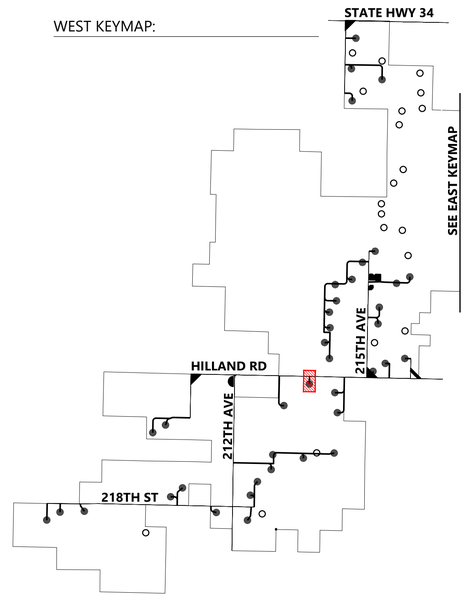
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Philip Wind Project

Haakon County, South Dakota

ROAD FD - Sta. 0+00.00 to End T-59

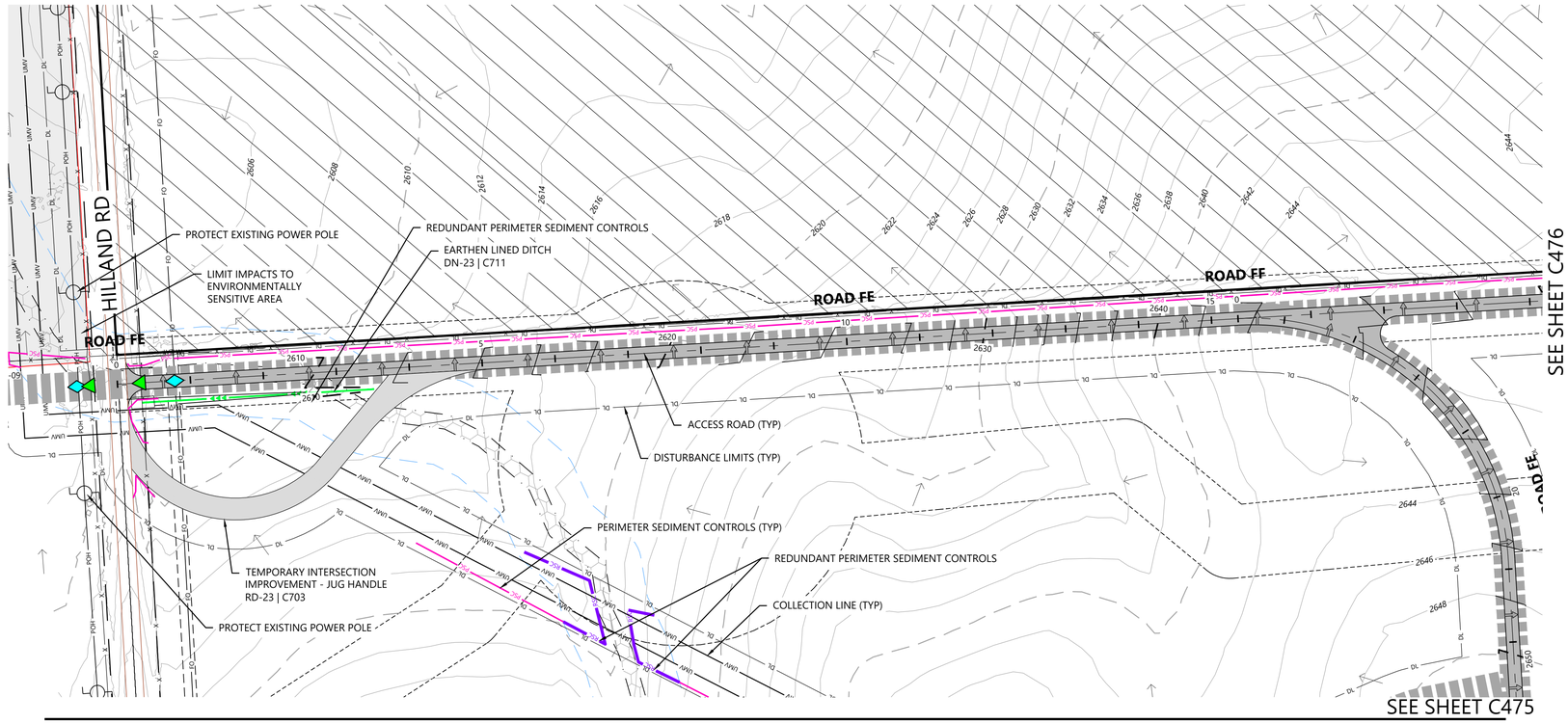
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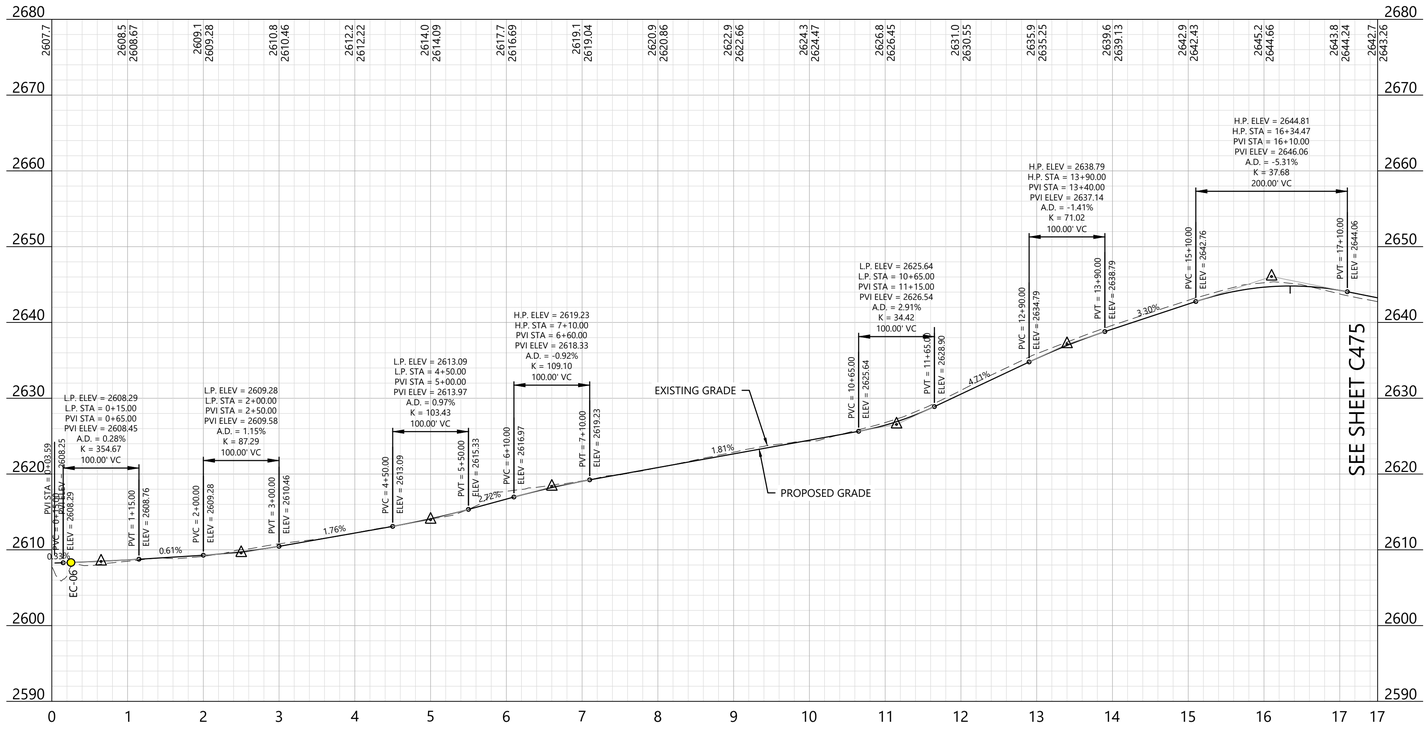
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SHEET: C473

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LEGEND:

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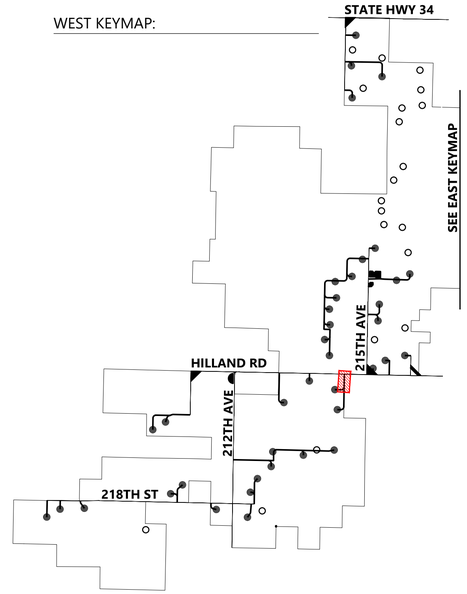
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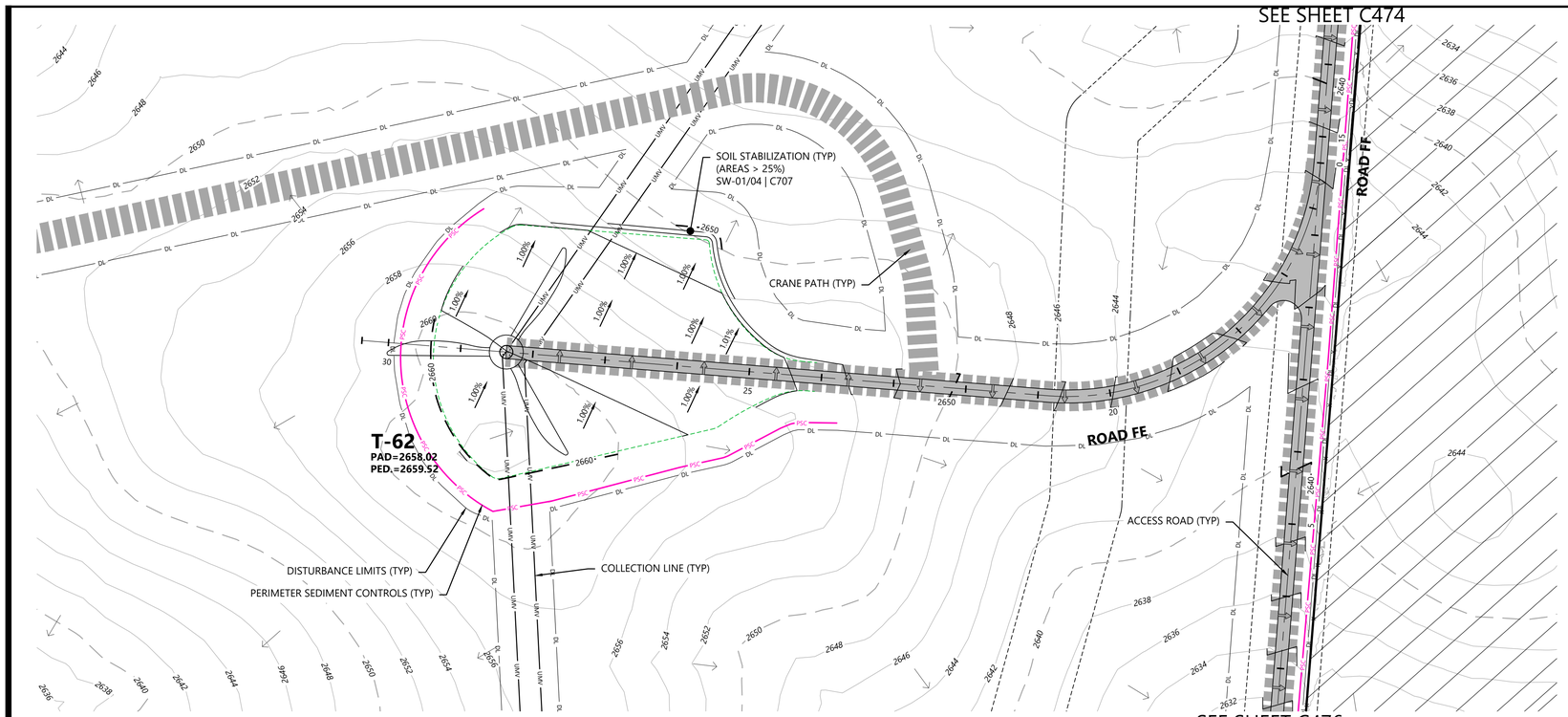
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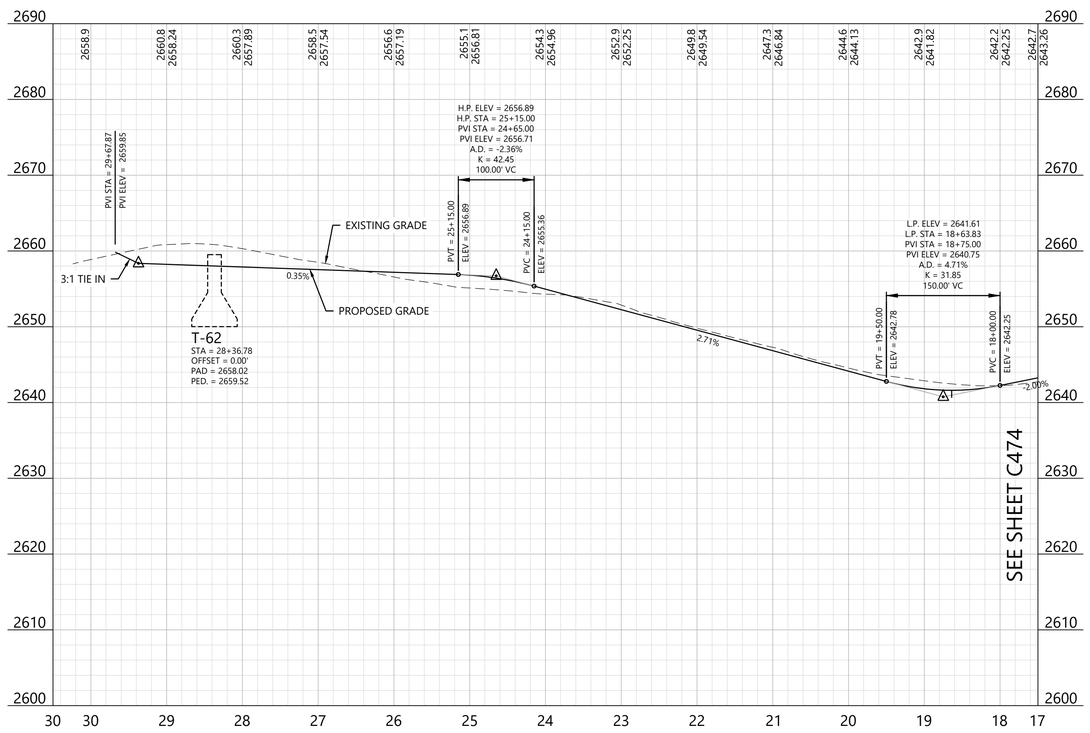
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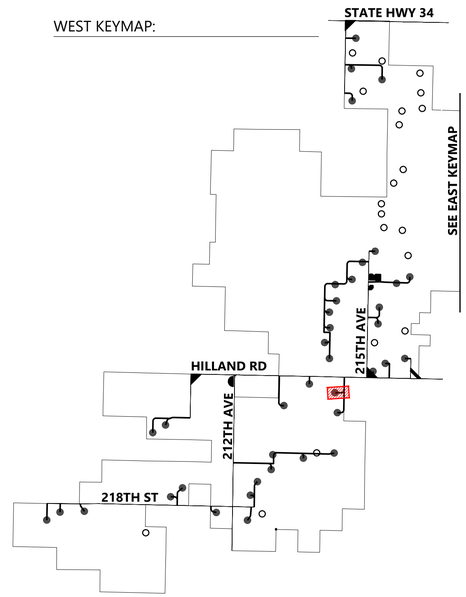
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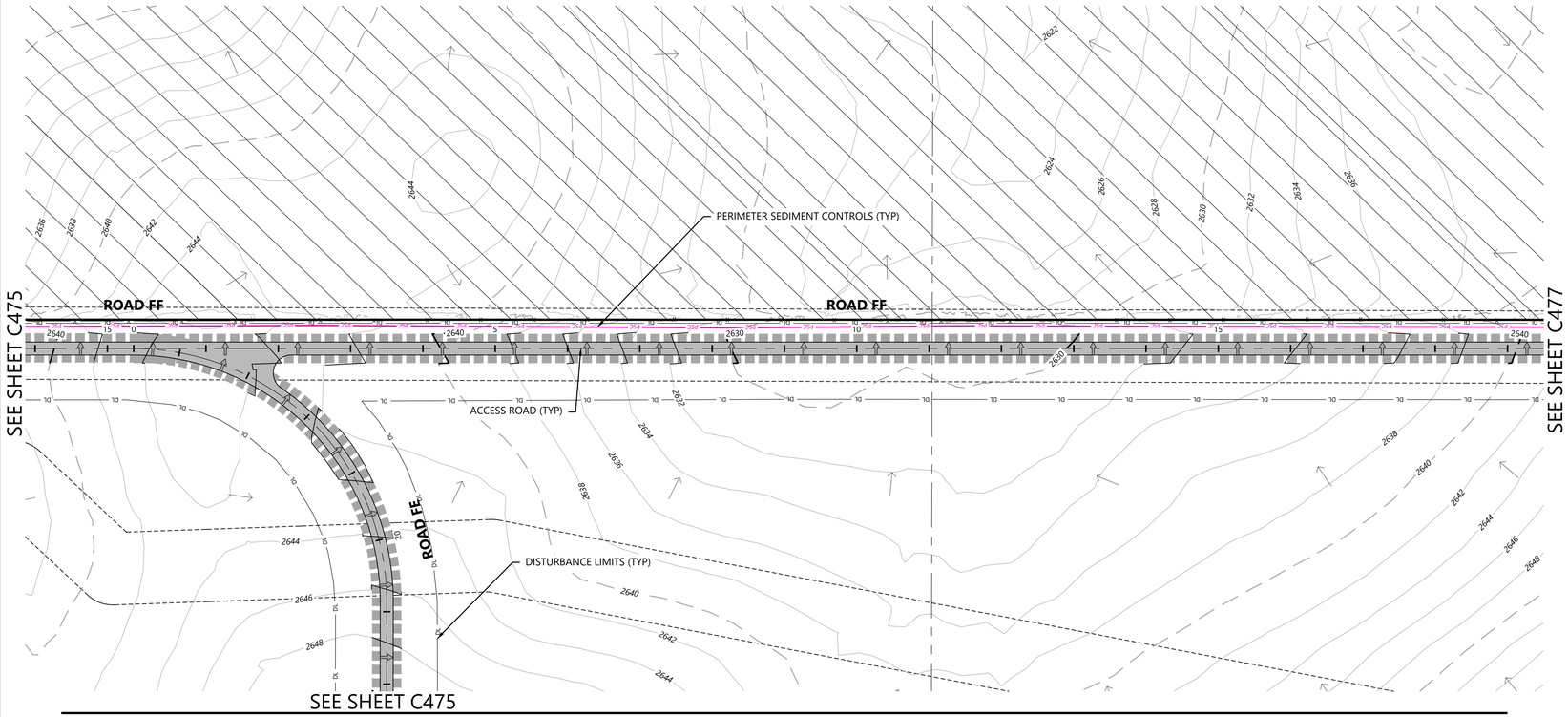
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Haakon County, South Dakota

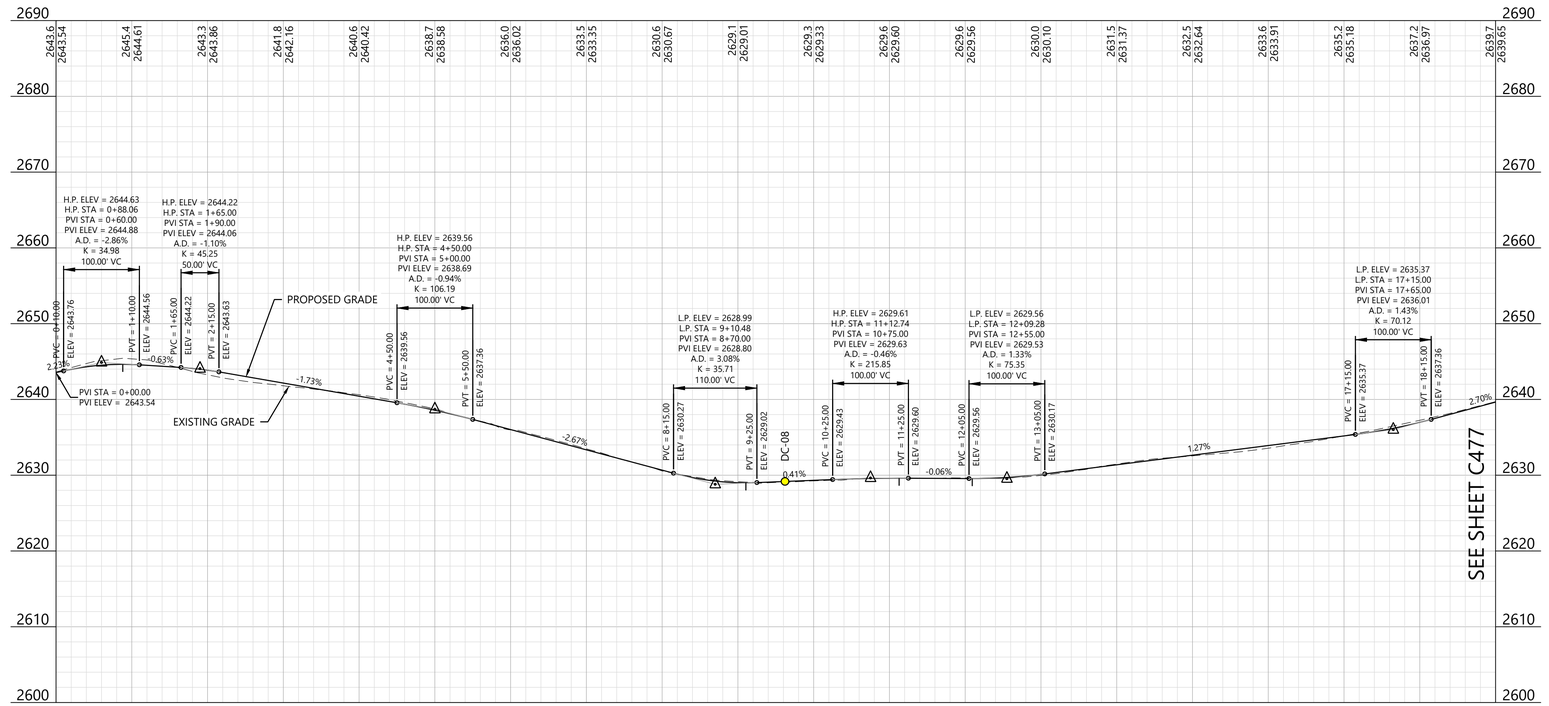
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ISSUED FOR PERMIT
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DATE: 05/07/2026
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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
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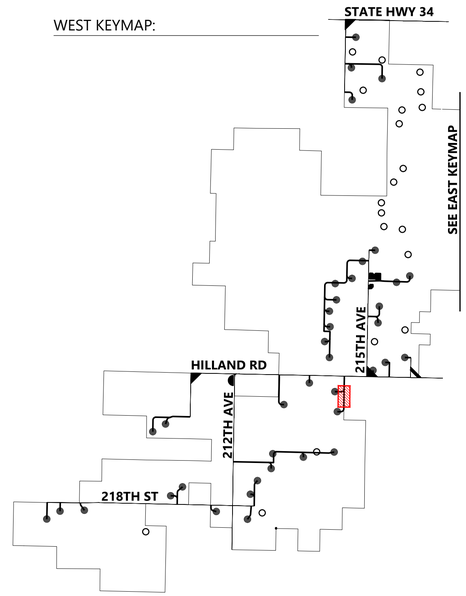
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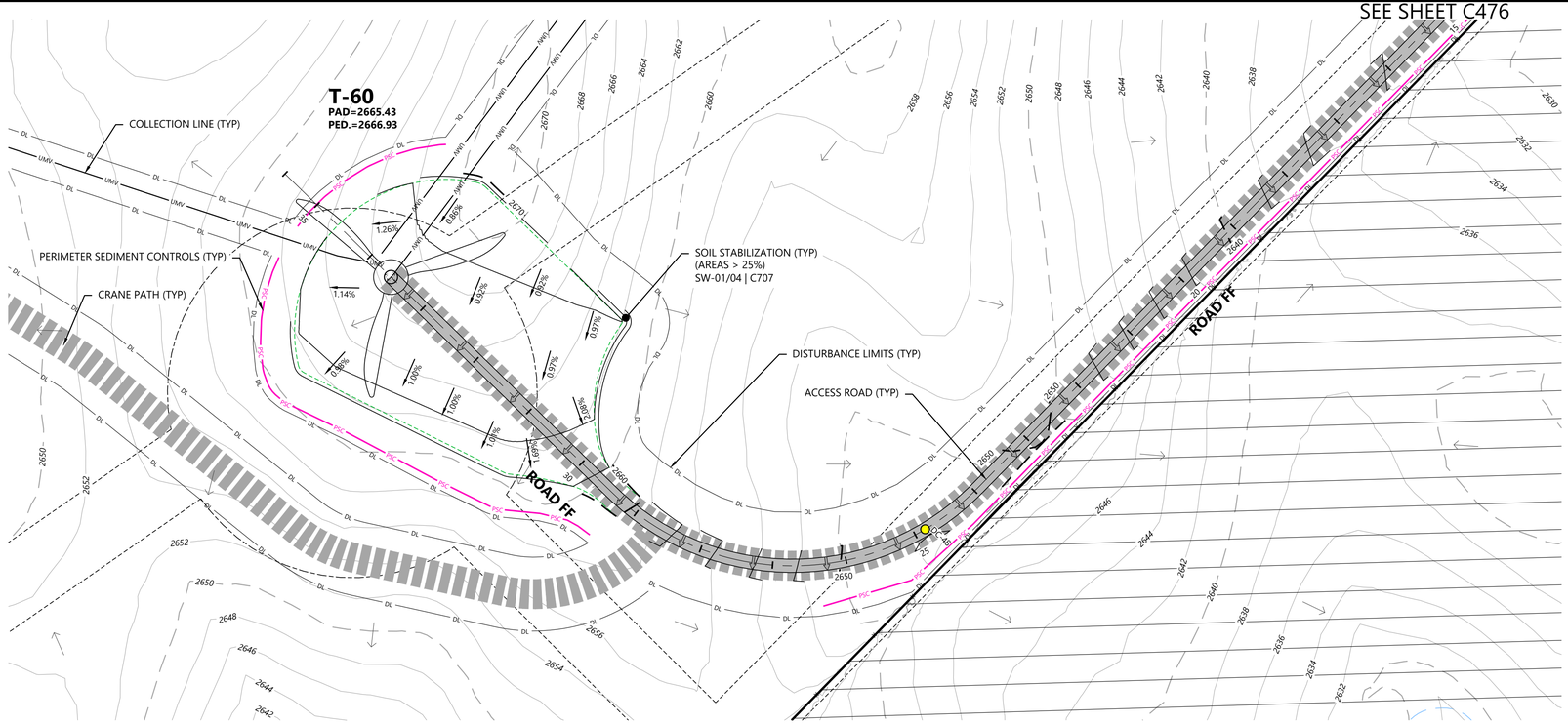
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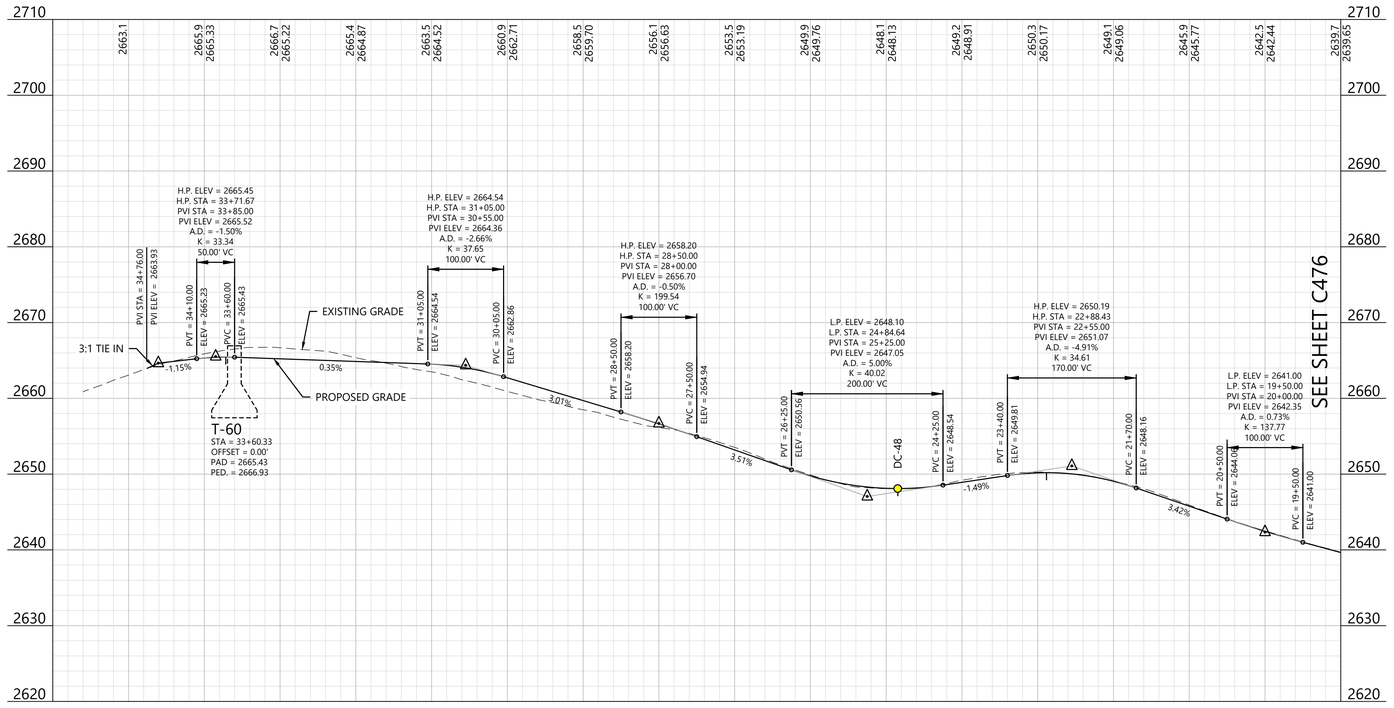
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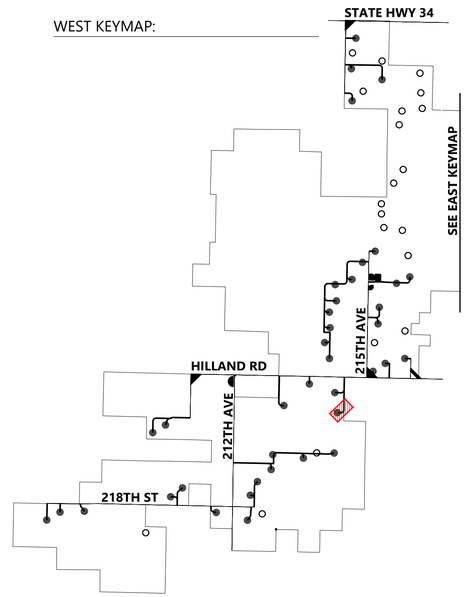
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Philip Wind Project

Haakon County, South Dakota

ROAD FF - Sta. 19+00.00 to End T-60

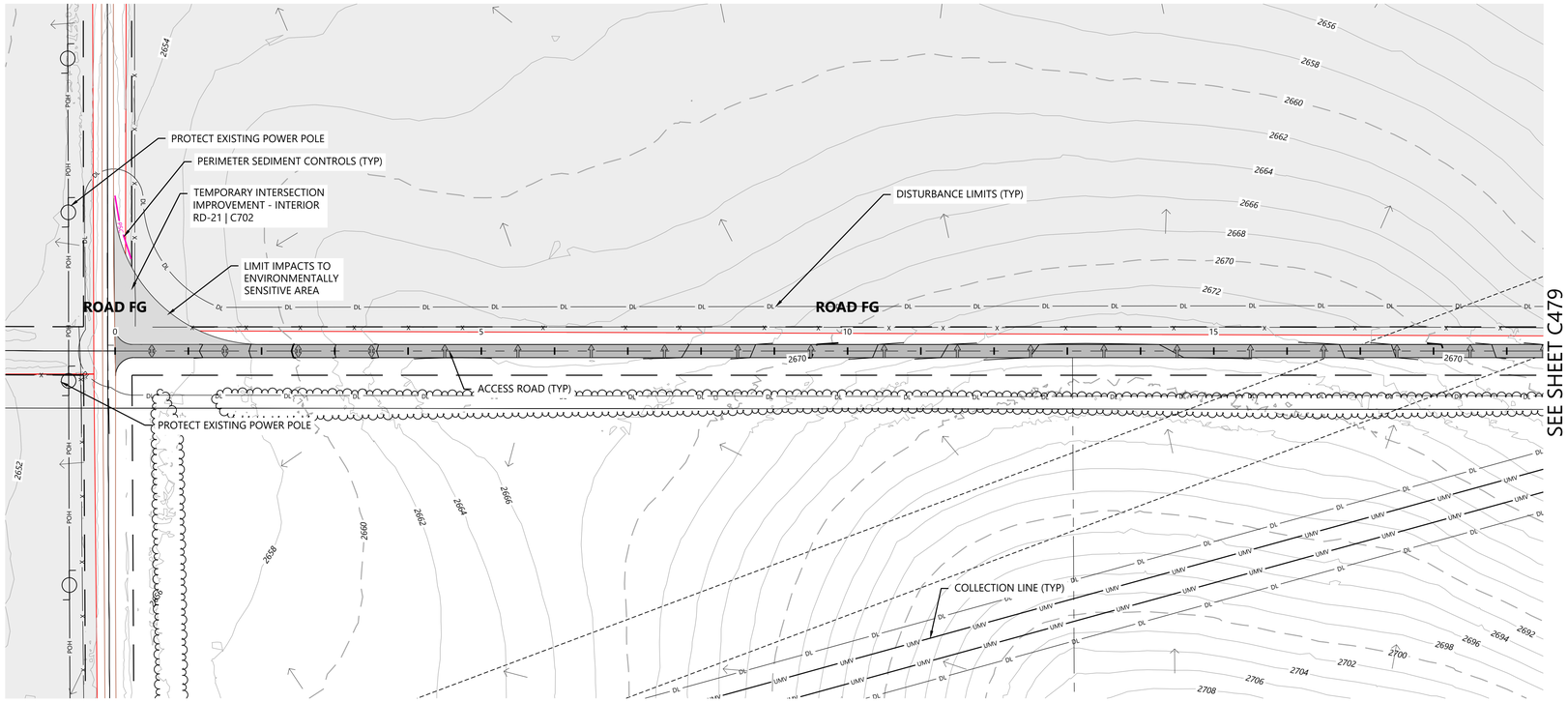
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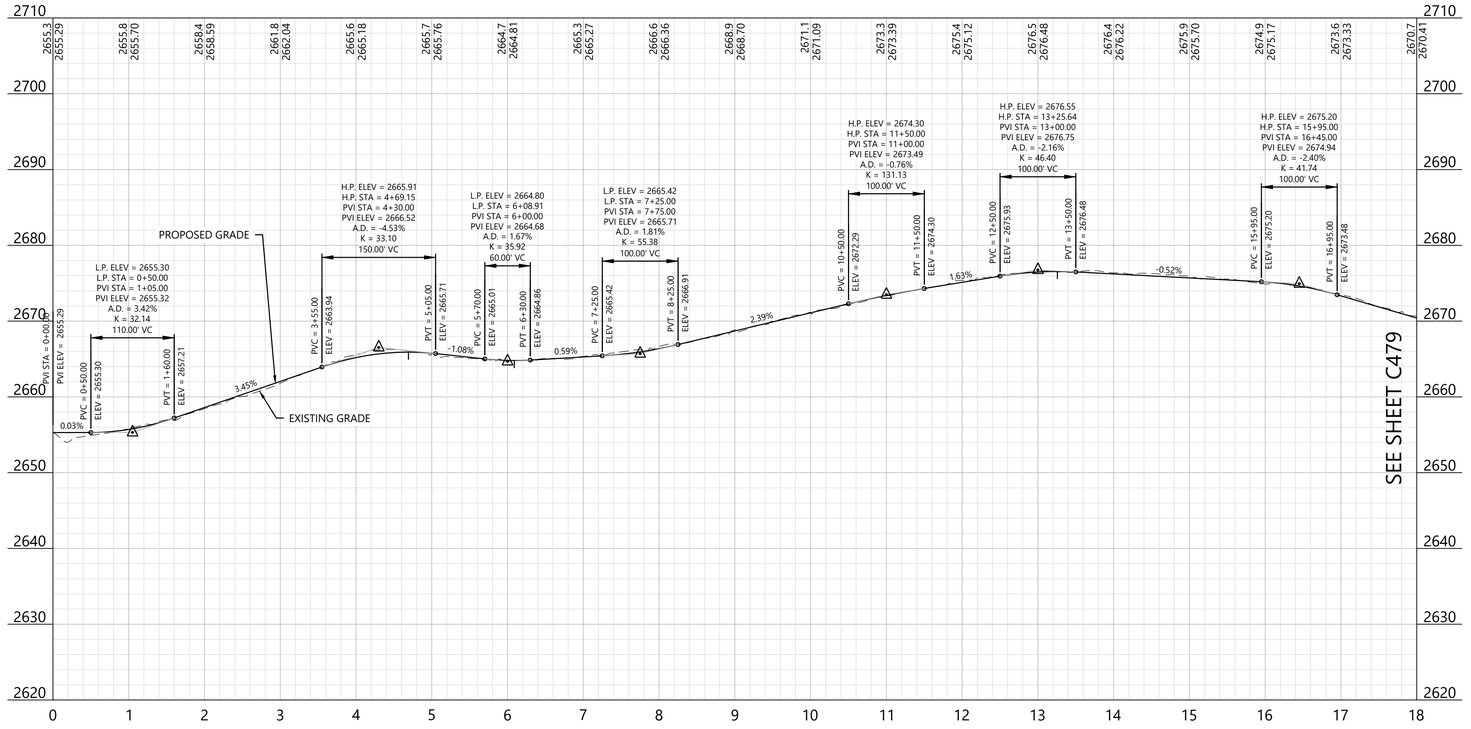
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SHEET: C477

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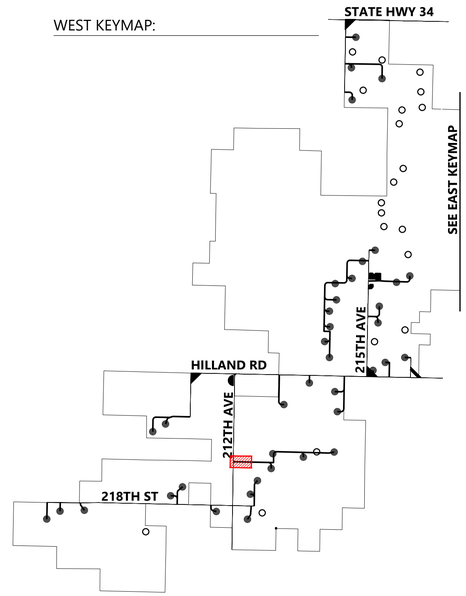
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06/17/26

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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD FG - Sta. 0+00.00 to 18+00.00

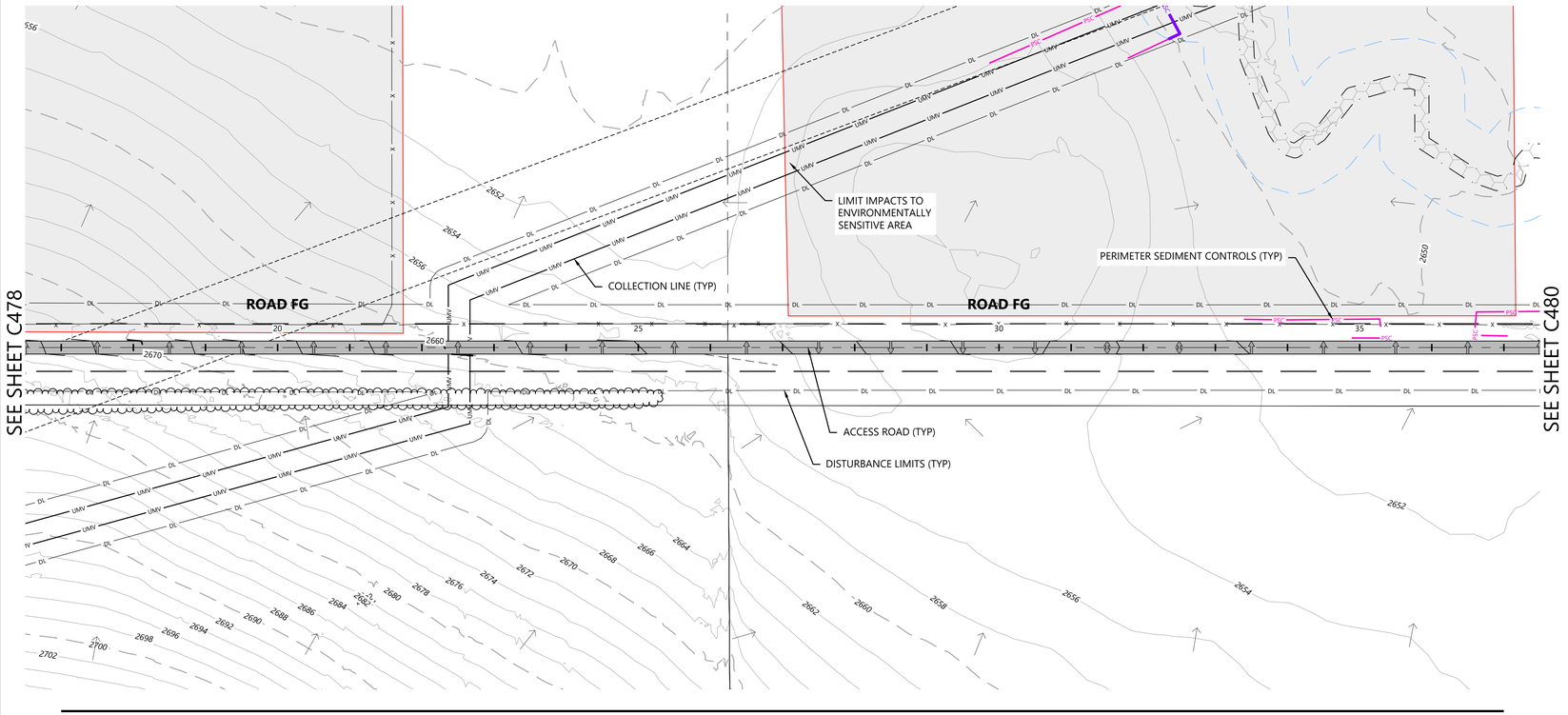
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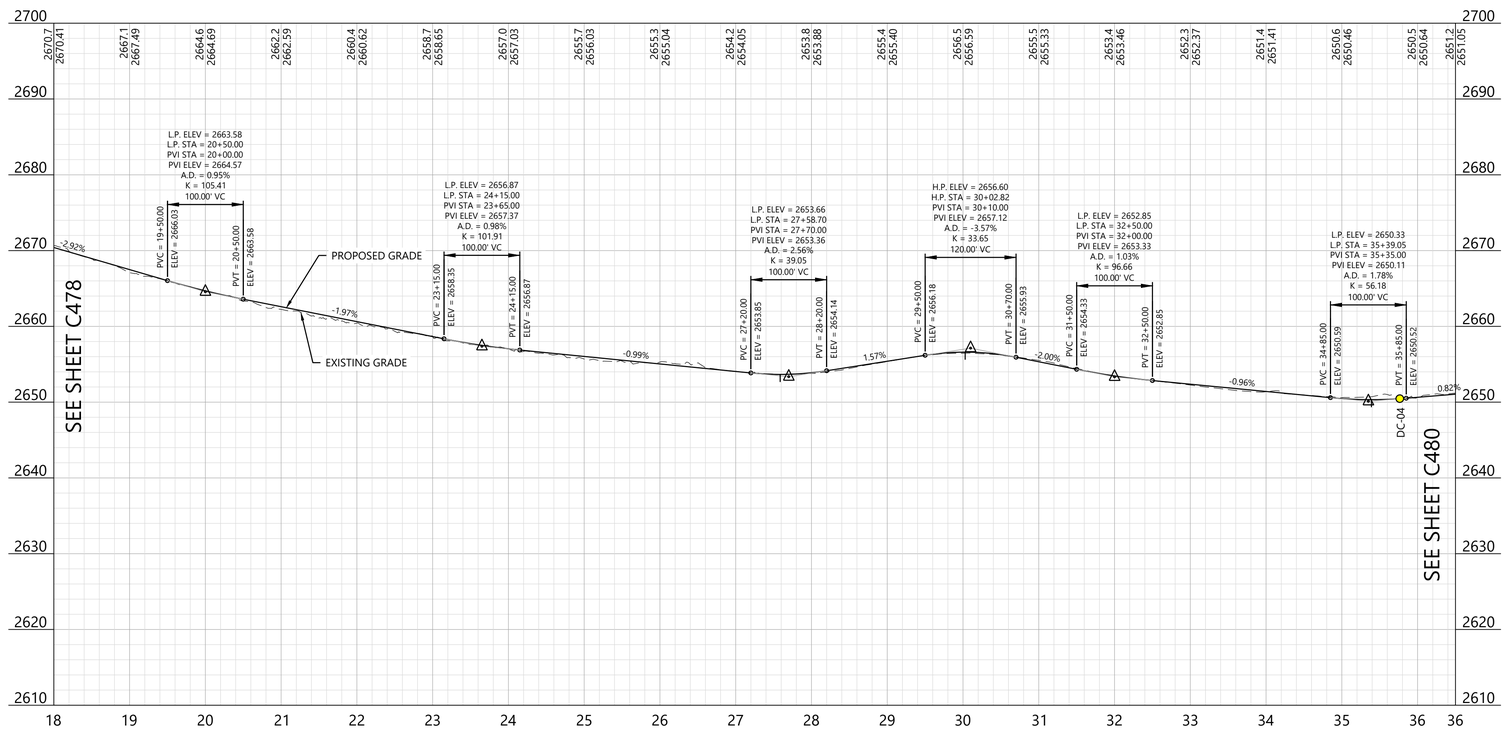
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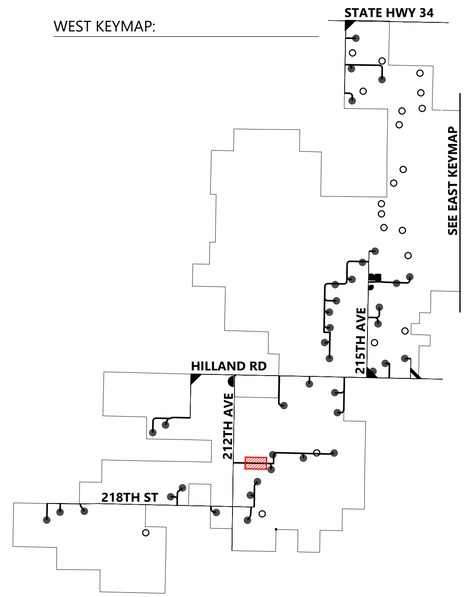
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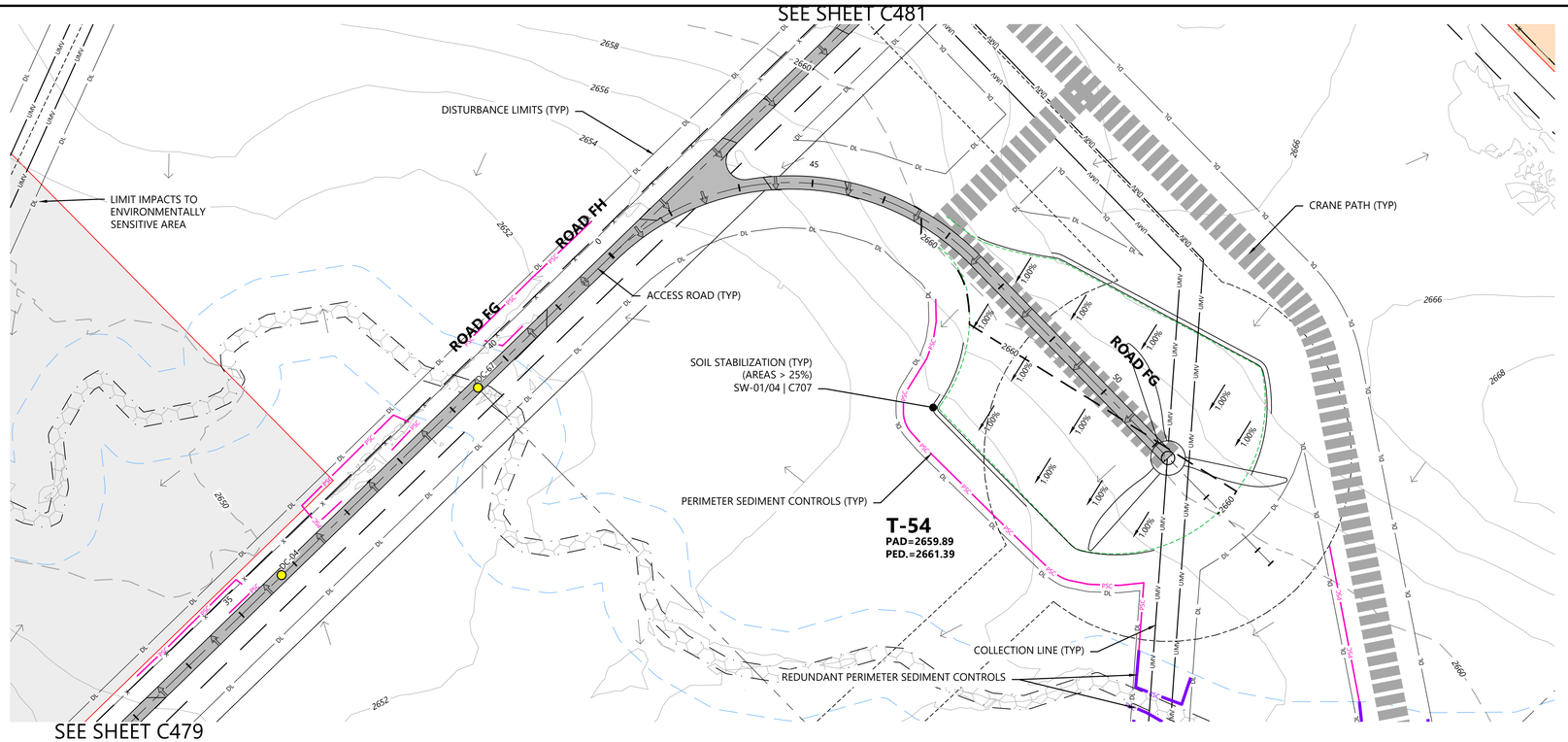
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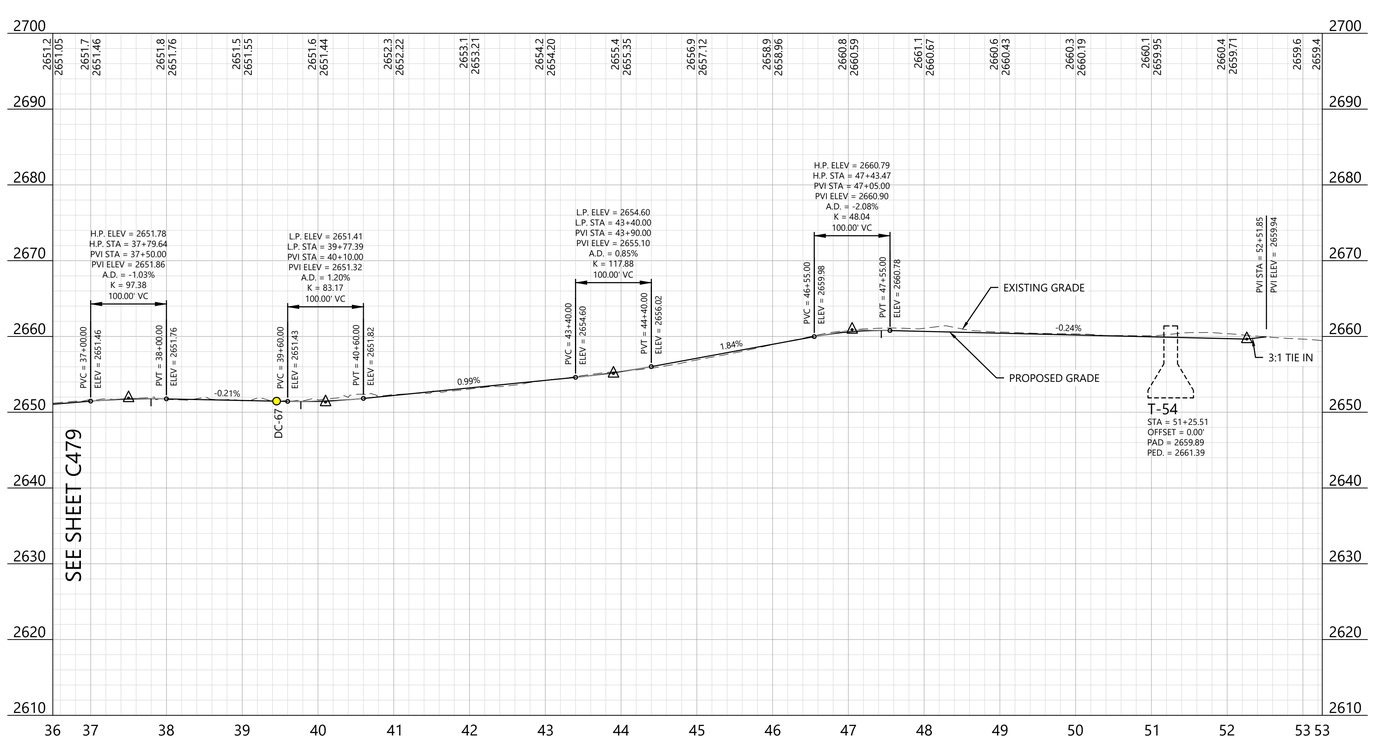
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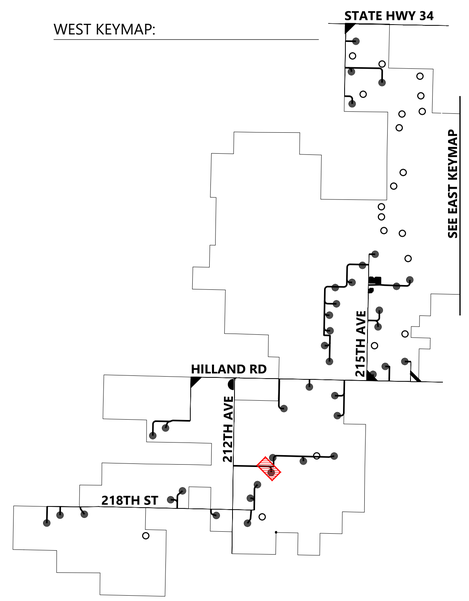
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WEST KEYMAP:



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westwoodps.com

Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD FG - Sta. 36+50.00 to End T-54

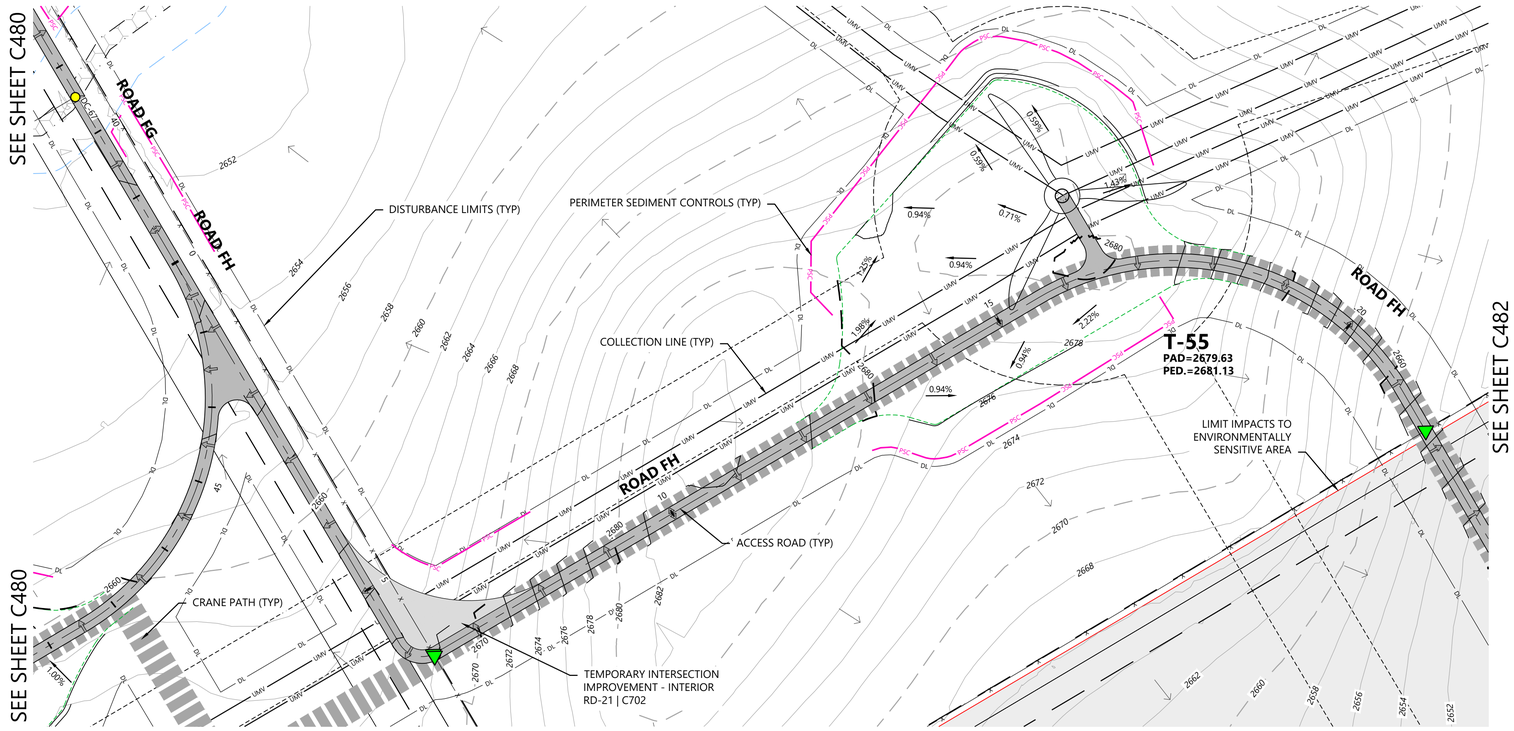
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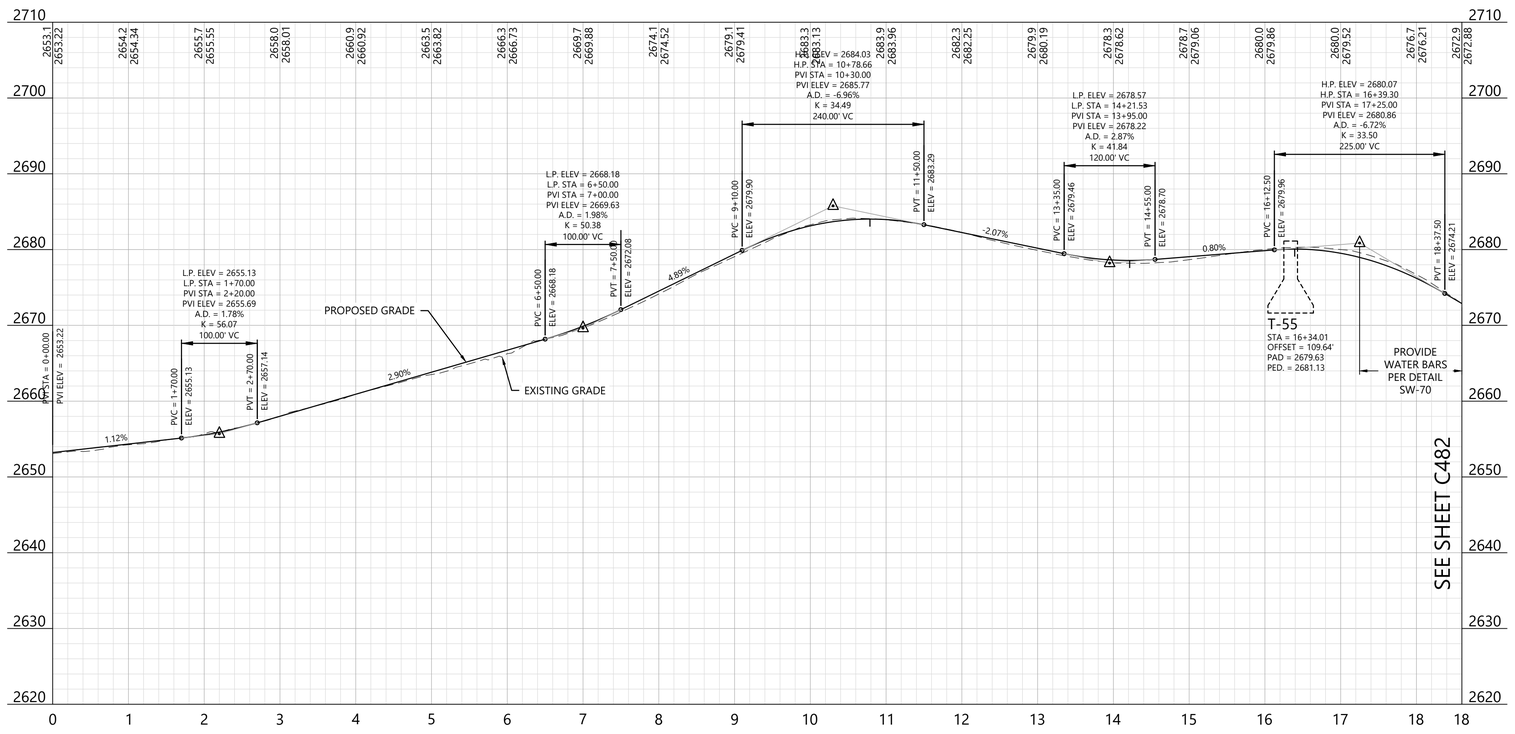
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SHEET: C480

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
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- CULVERT
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- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
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- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
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- PROJECT FACILITIES

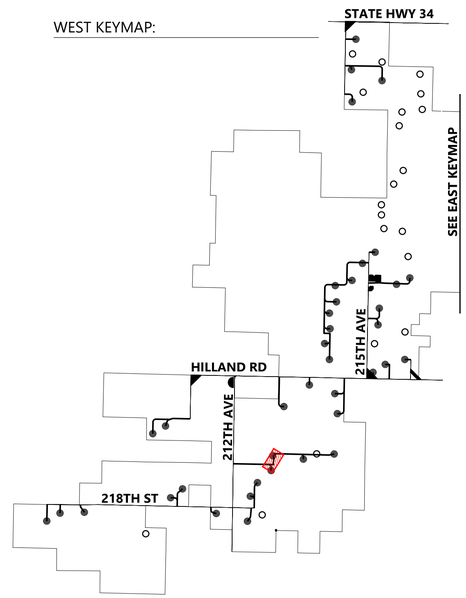
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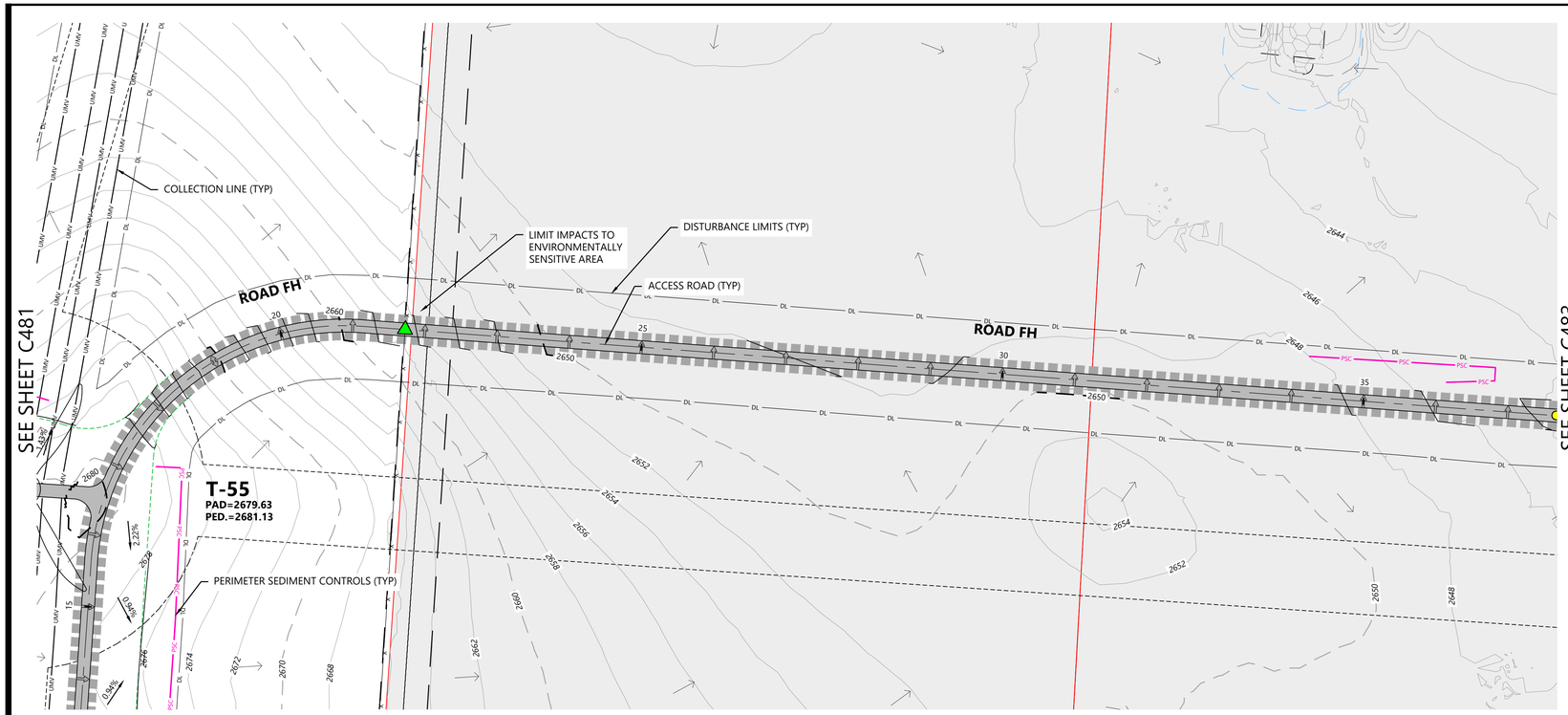
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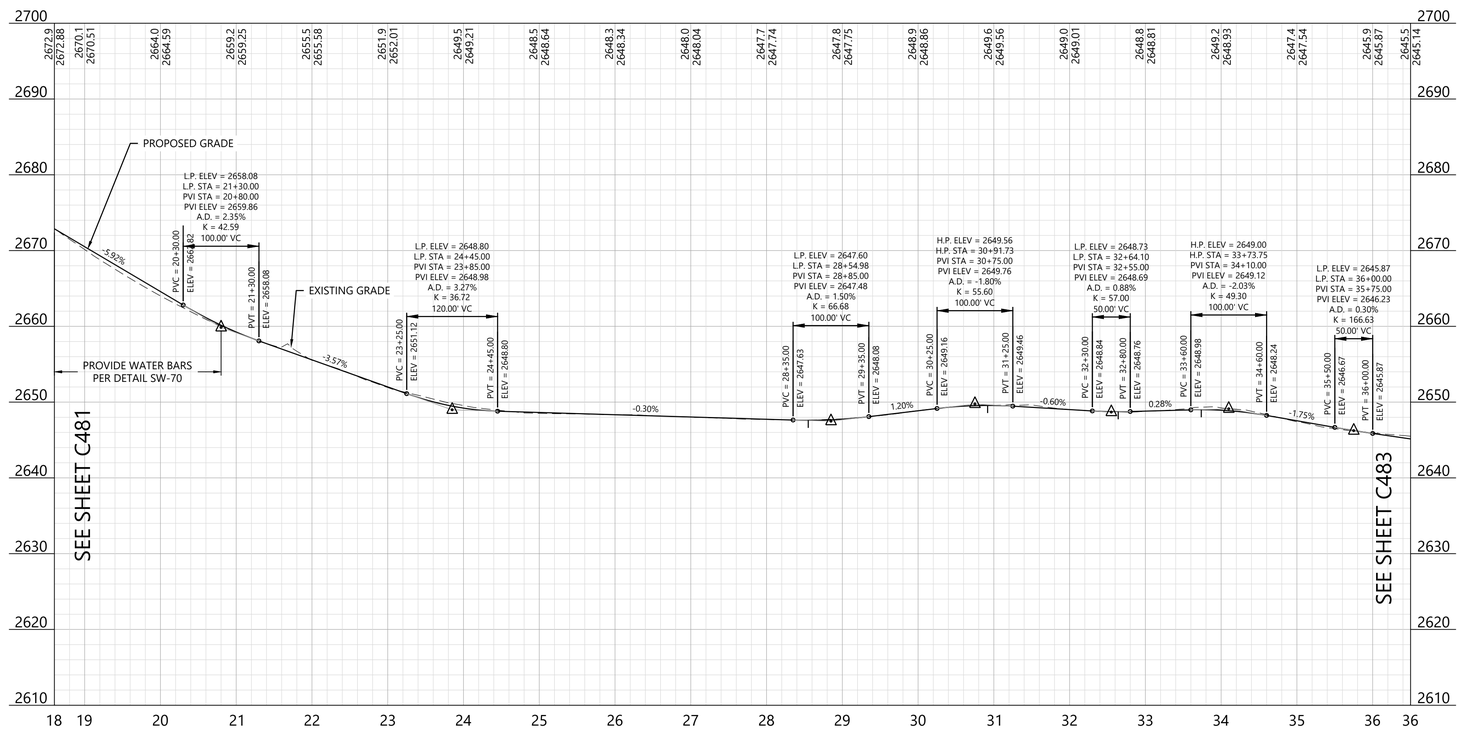
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T-55

ISSUED FOR PERMIT
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DATE: 05/07/2026
SHEET: C481
REV: B

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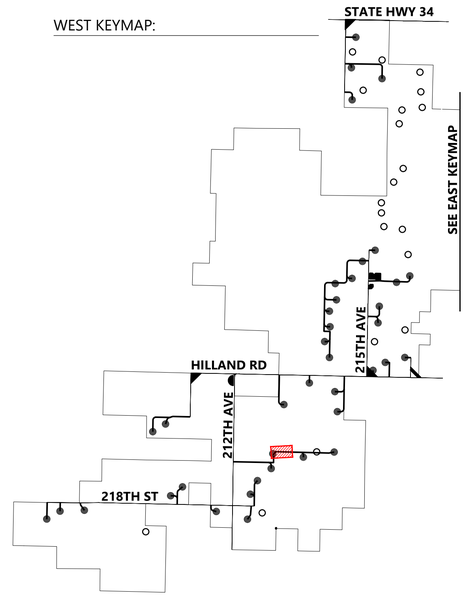
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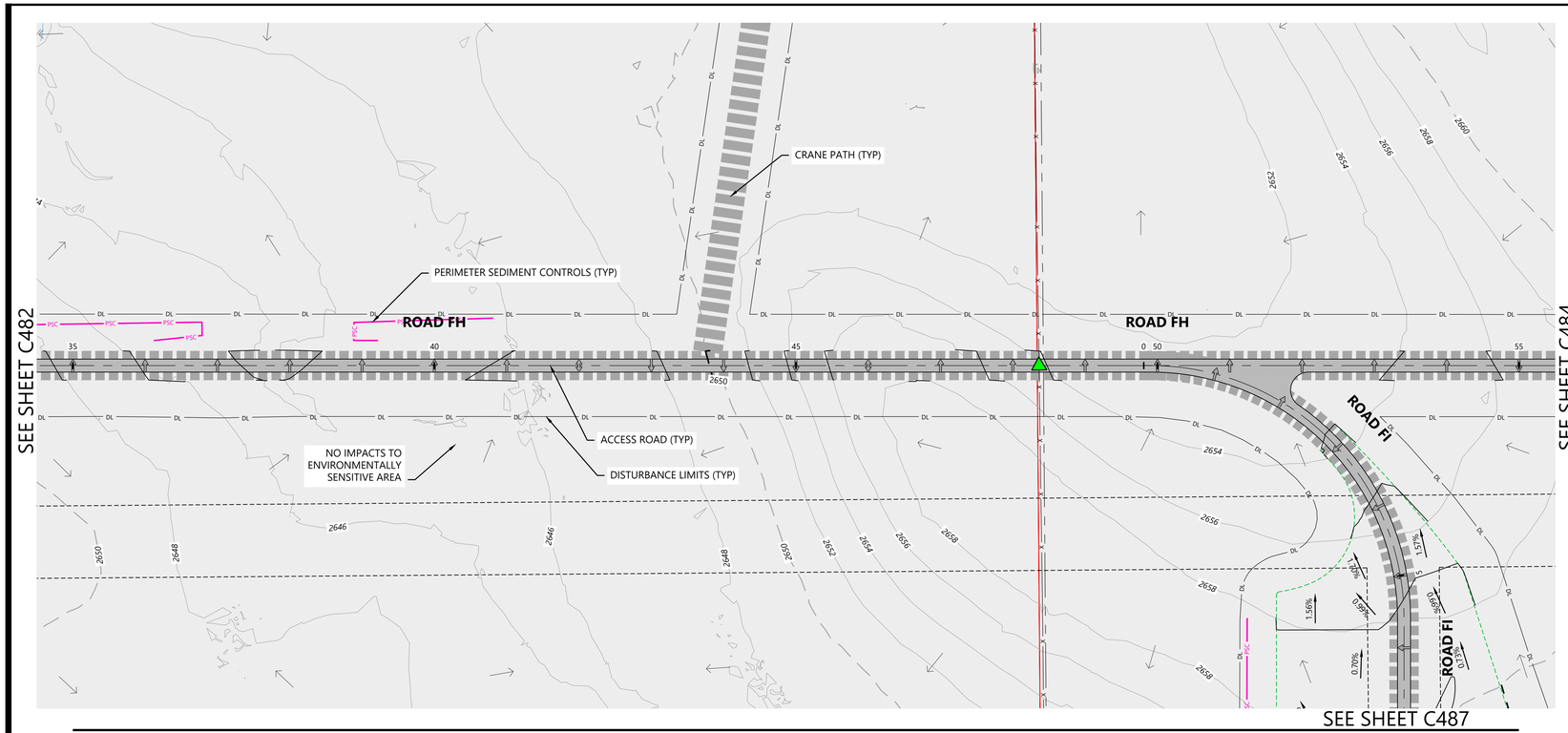
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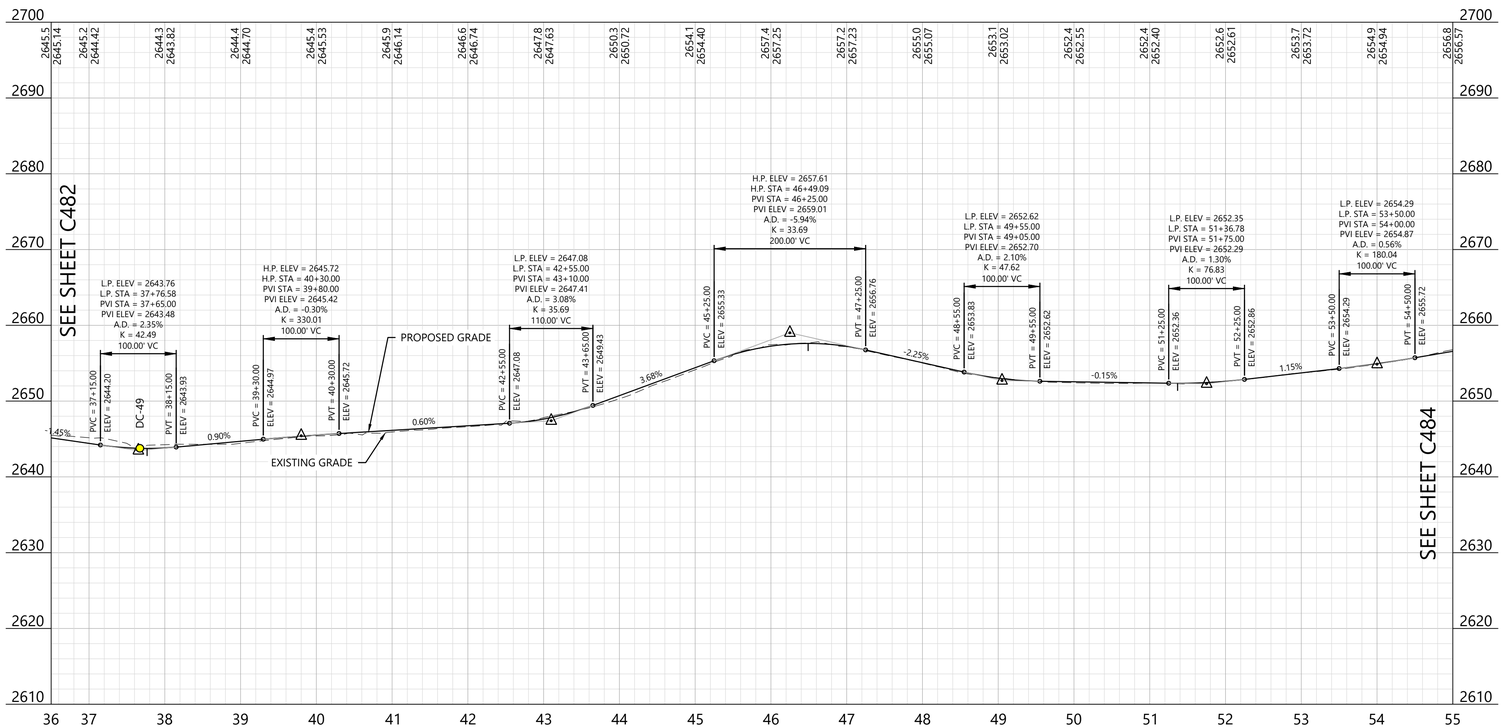
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REV: B

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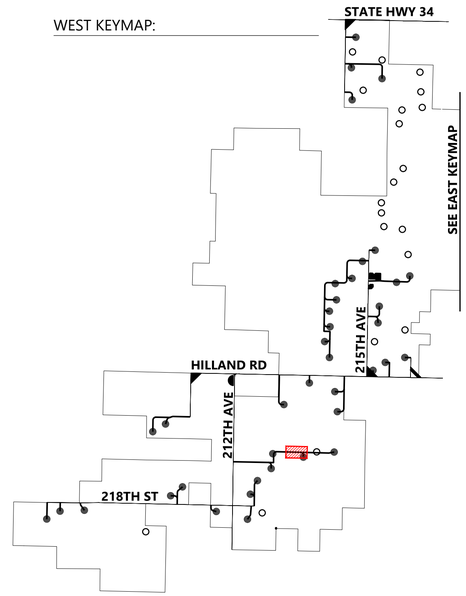
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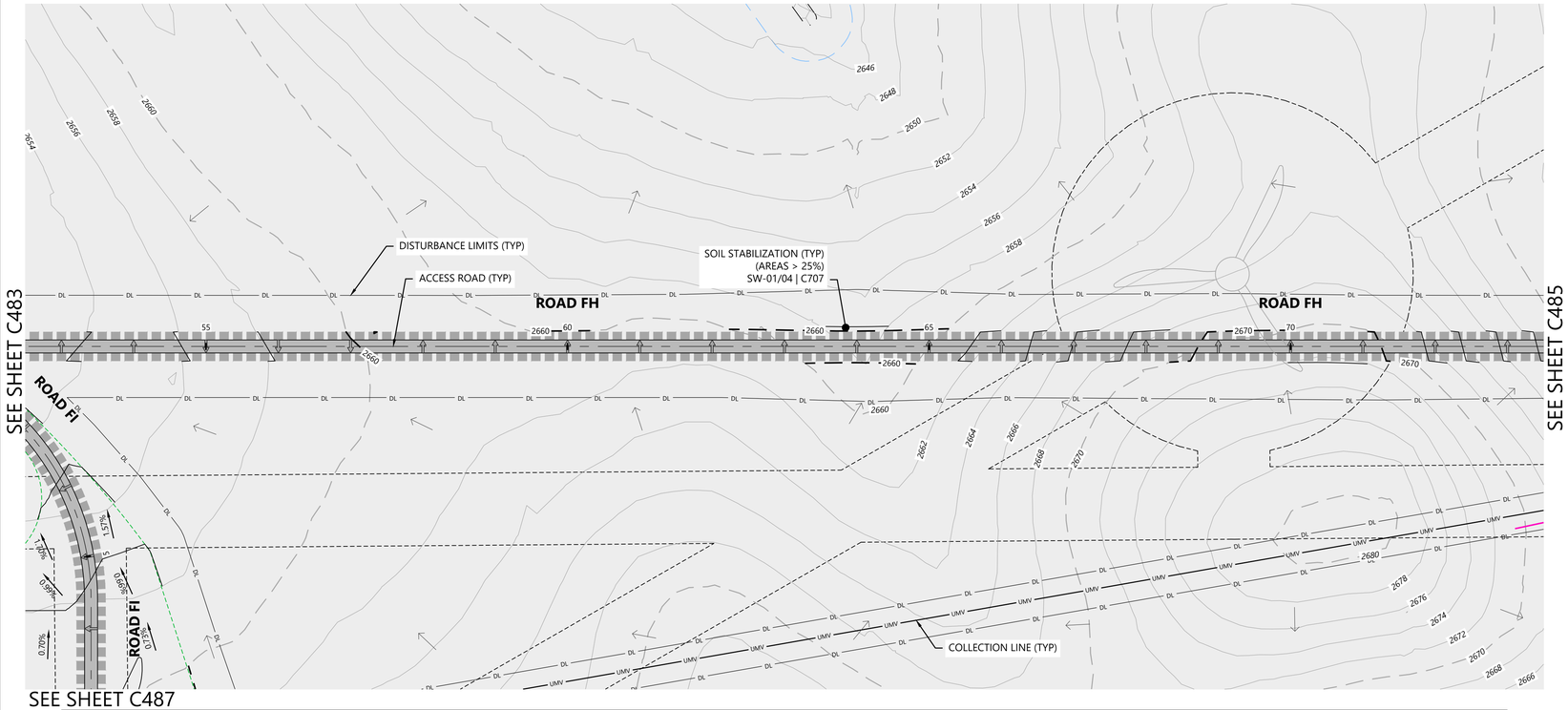
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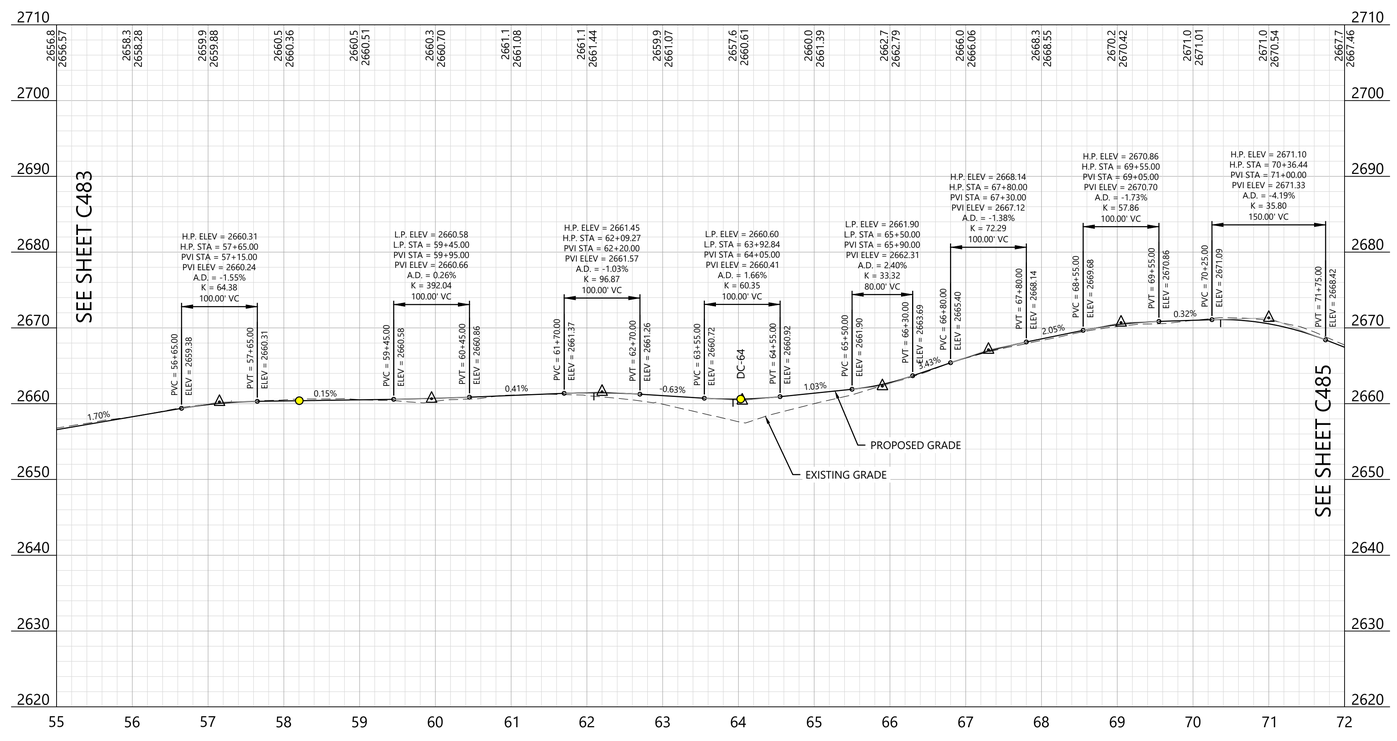
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LEGEND:

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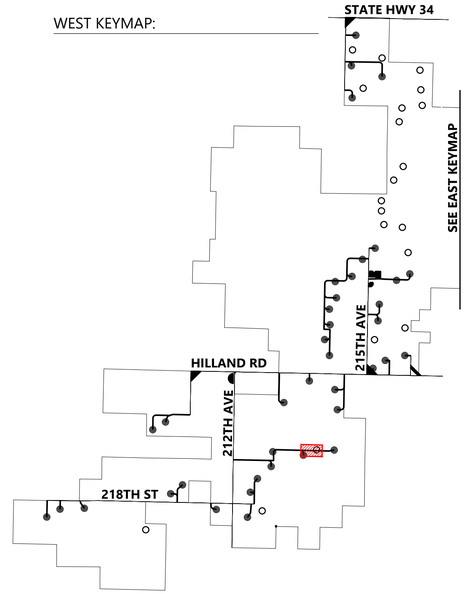
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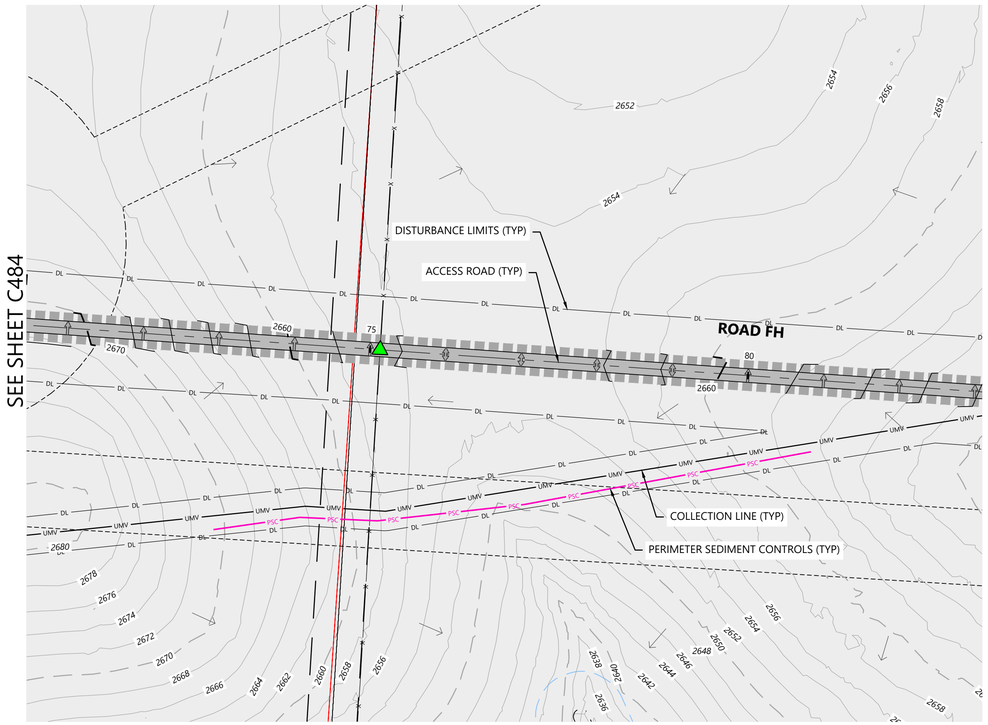
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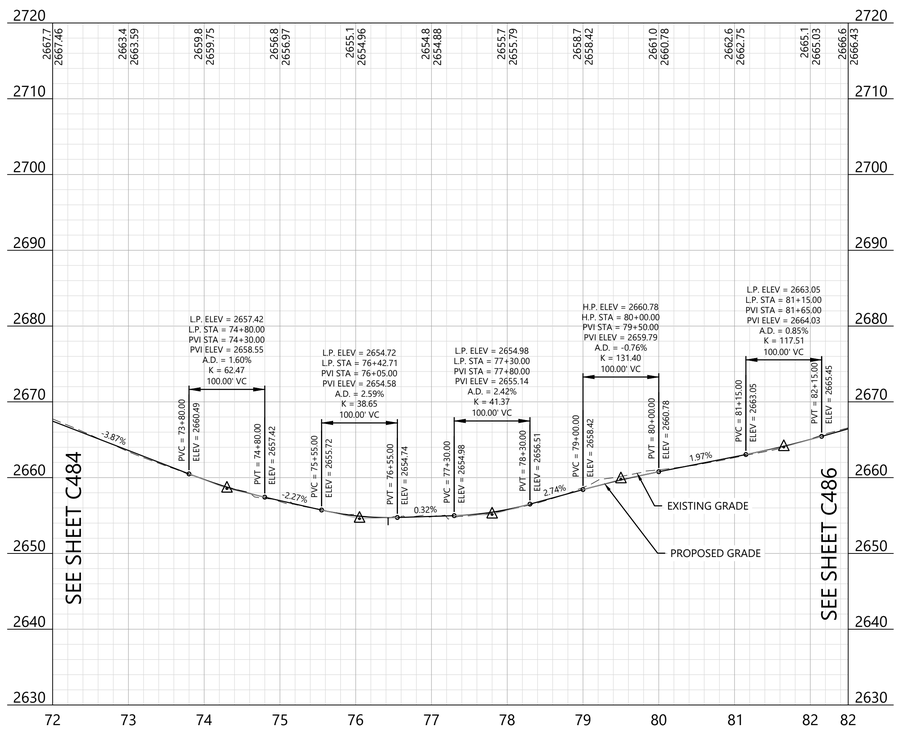
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SHEET: C484

REV: B

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- PROJECT FACILITIES

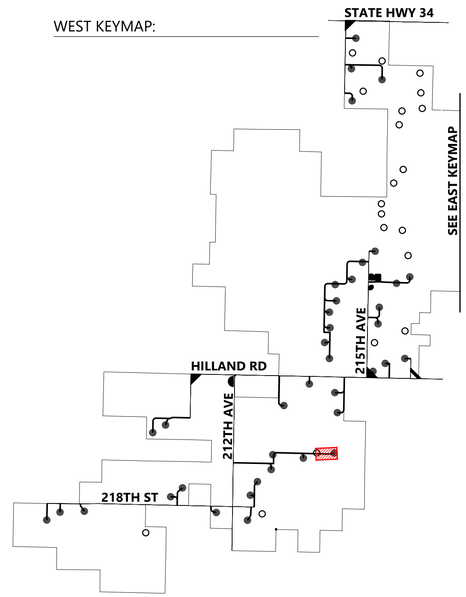
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WEST KEYMAP:



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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD FH - Sta. 72+00.00 to 82+50.00

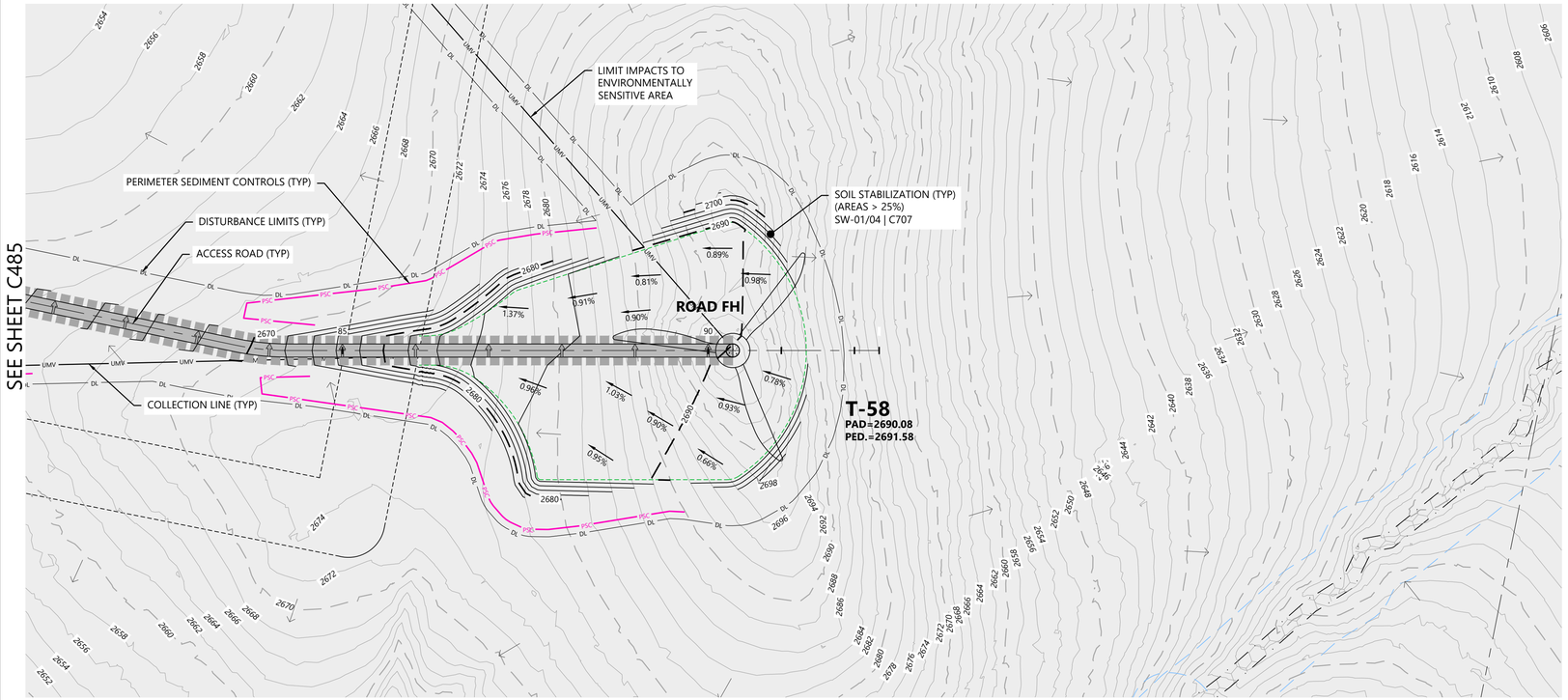
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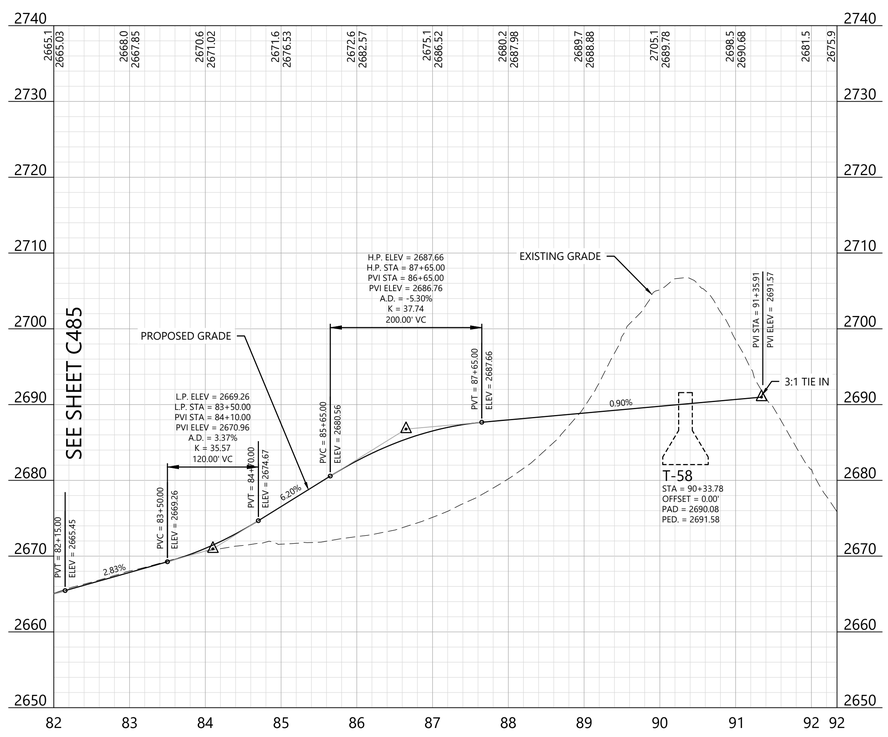
DATE: 05/07/2026

SHEET: C485

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
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- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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- PERIMETER SEDIMENT CONTROL (PSC)
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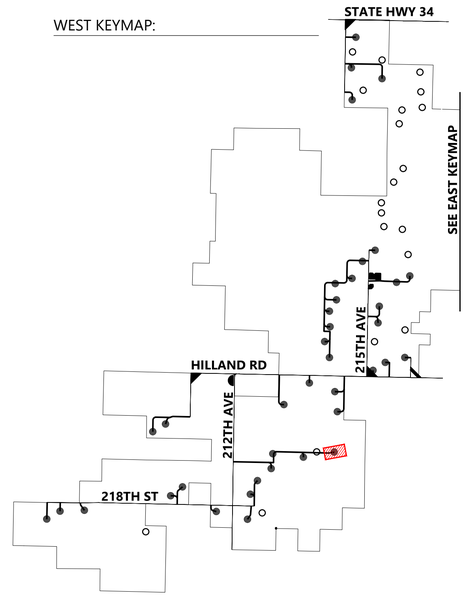
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NORTH DAKOTA
06/17/26

PREPARED FOR:

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Philip Wind Project

Haakon County, South Dakota

ROAD FH - Sta. 82+50.00 to End T-58

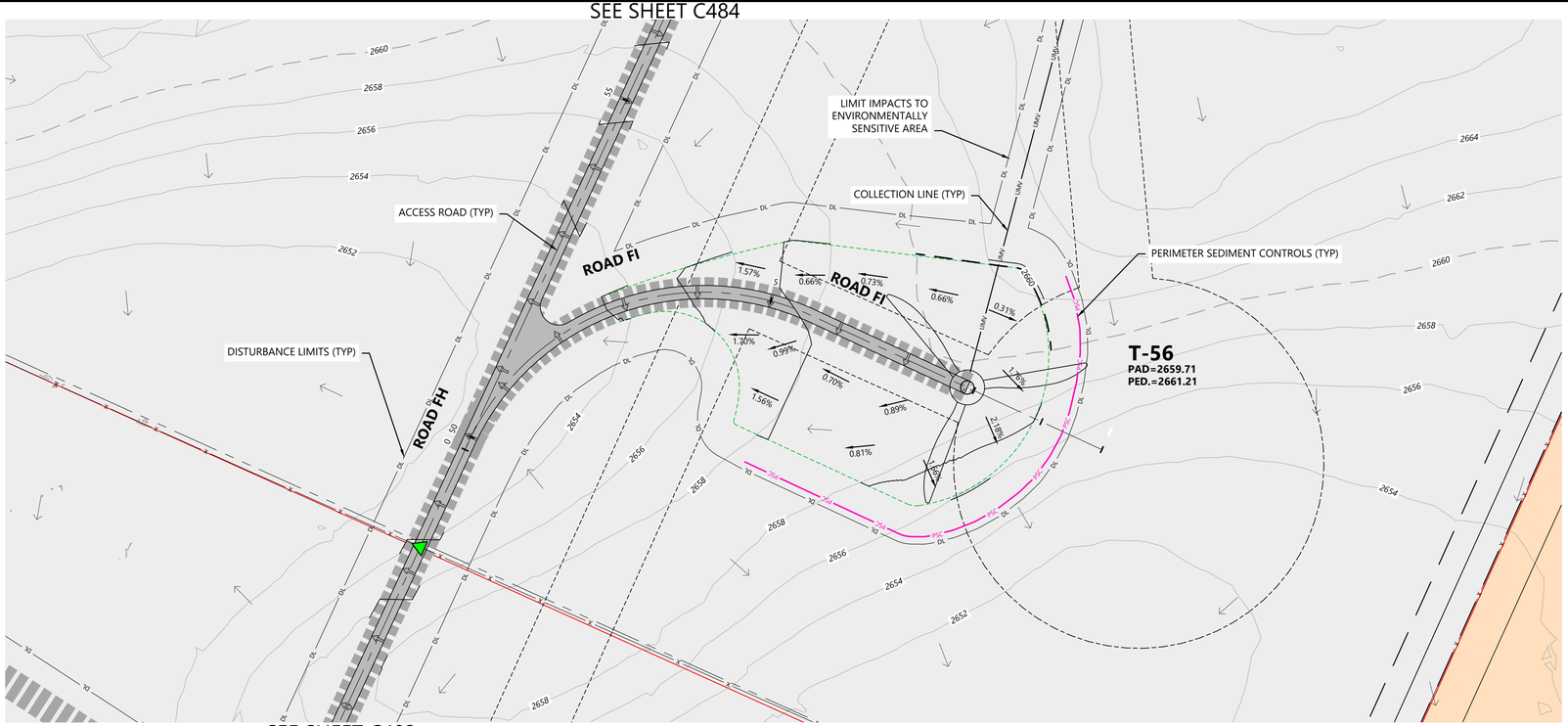
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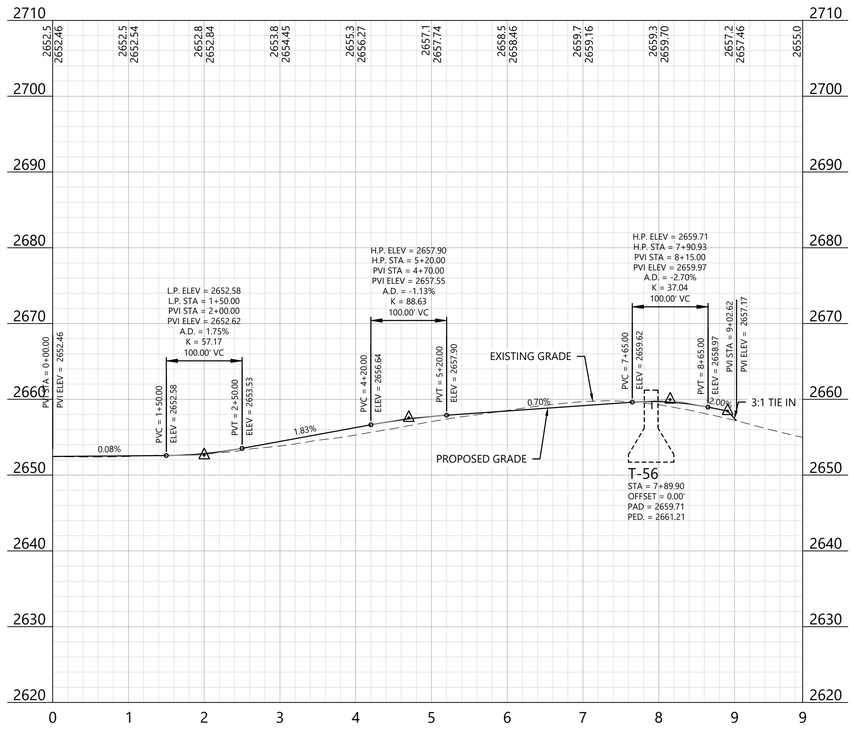
DATE: 05/07/2026

SHEET: C486

REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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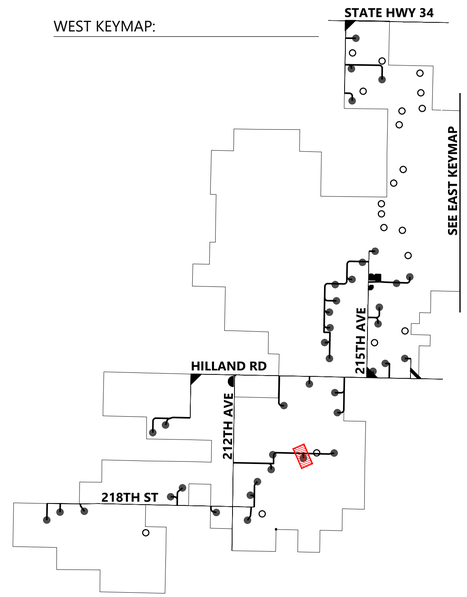
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Philip Wind Project

Haakon County, South Dakota

ROAD FI - Sta. 0+00.00 to End T-56

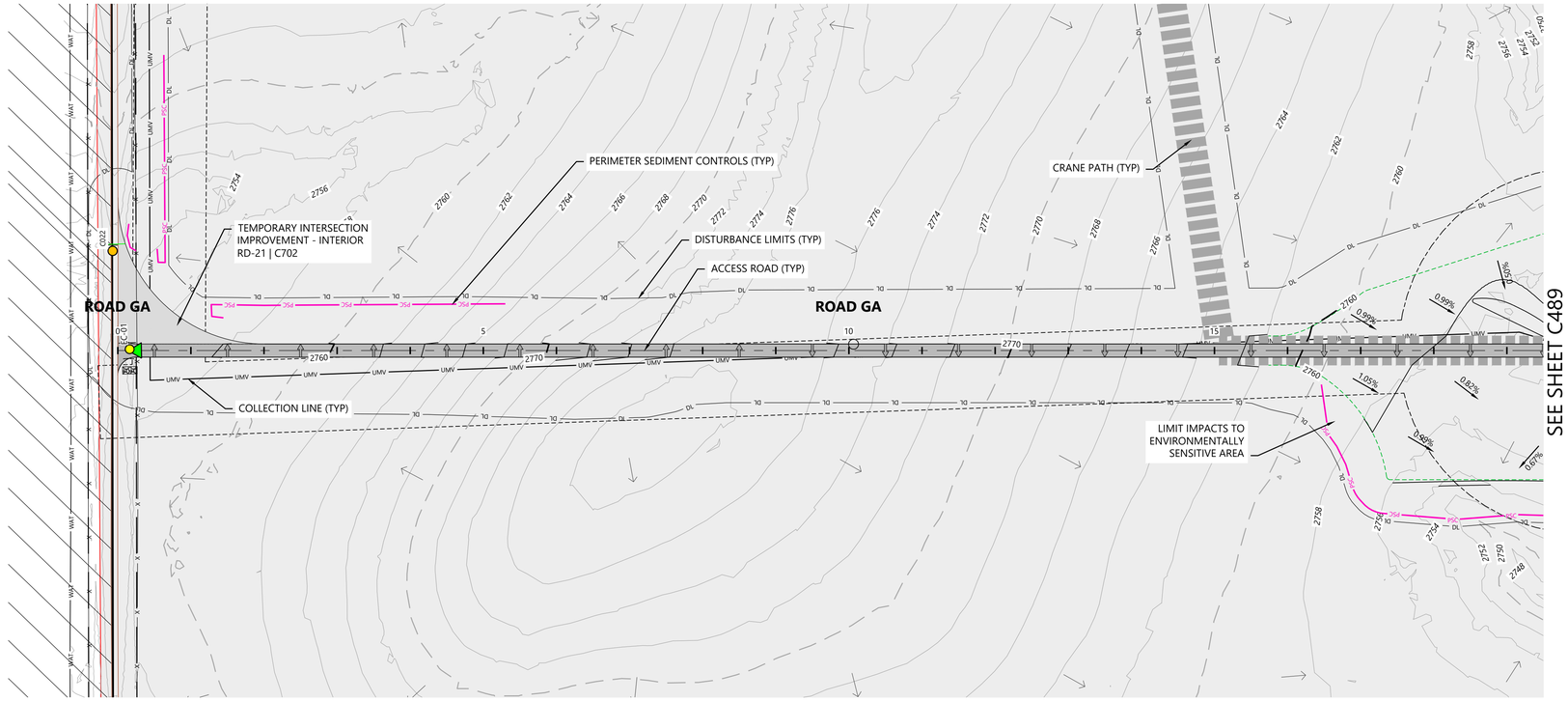
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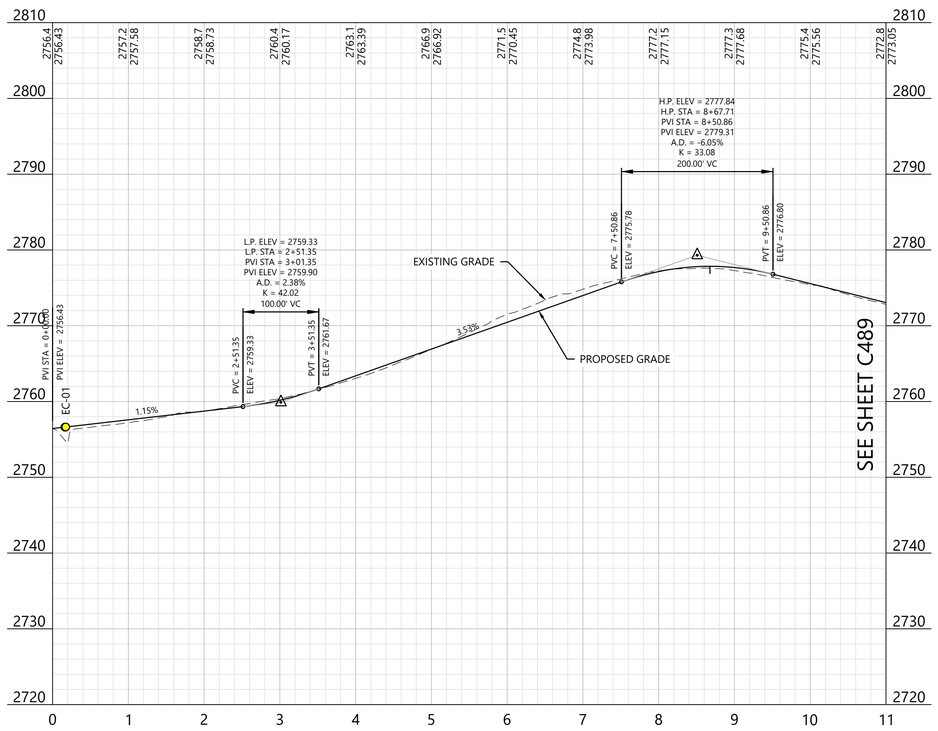
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SHEET: C487

REV: B

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LEGEND:

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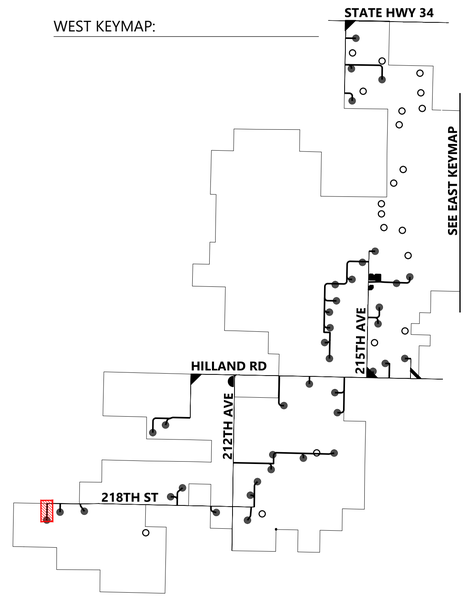
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0' 100' 200' 300'

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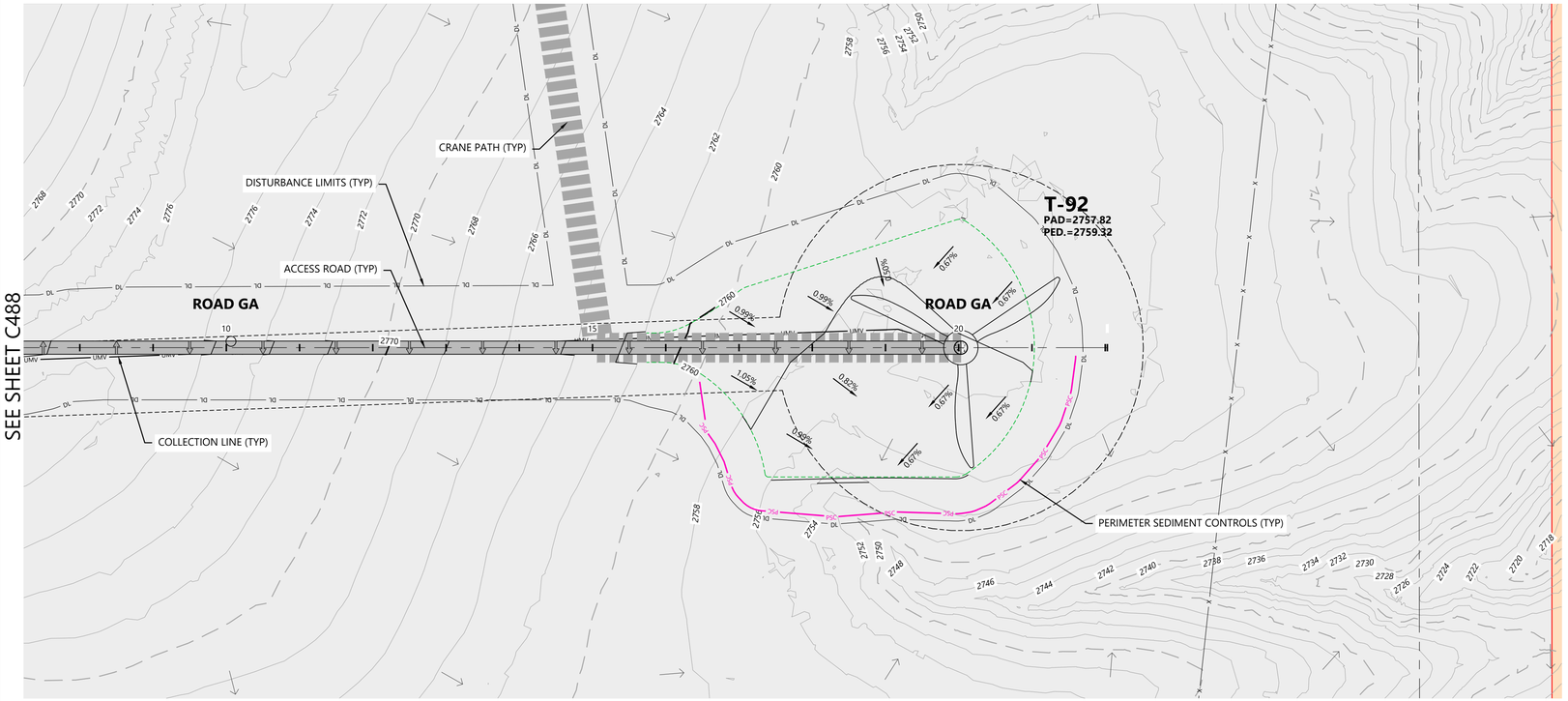
Philip Wind Project
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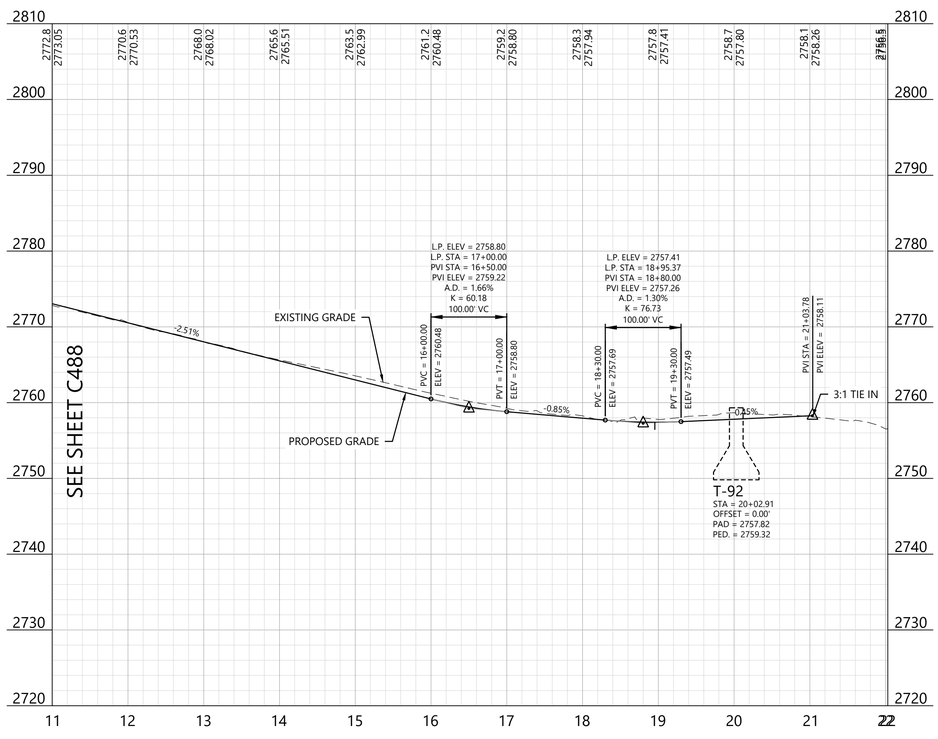
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ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C488
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
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- EASEMENT LINES
- SURVEY CORRIDOR
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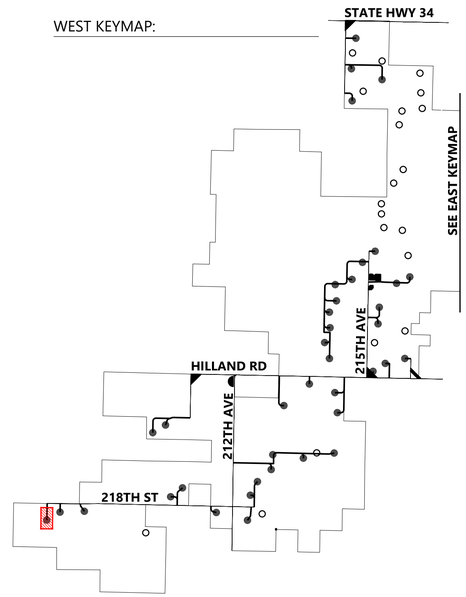
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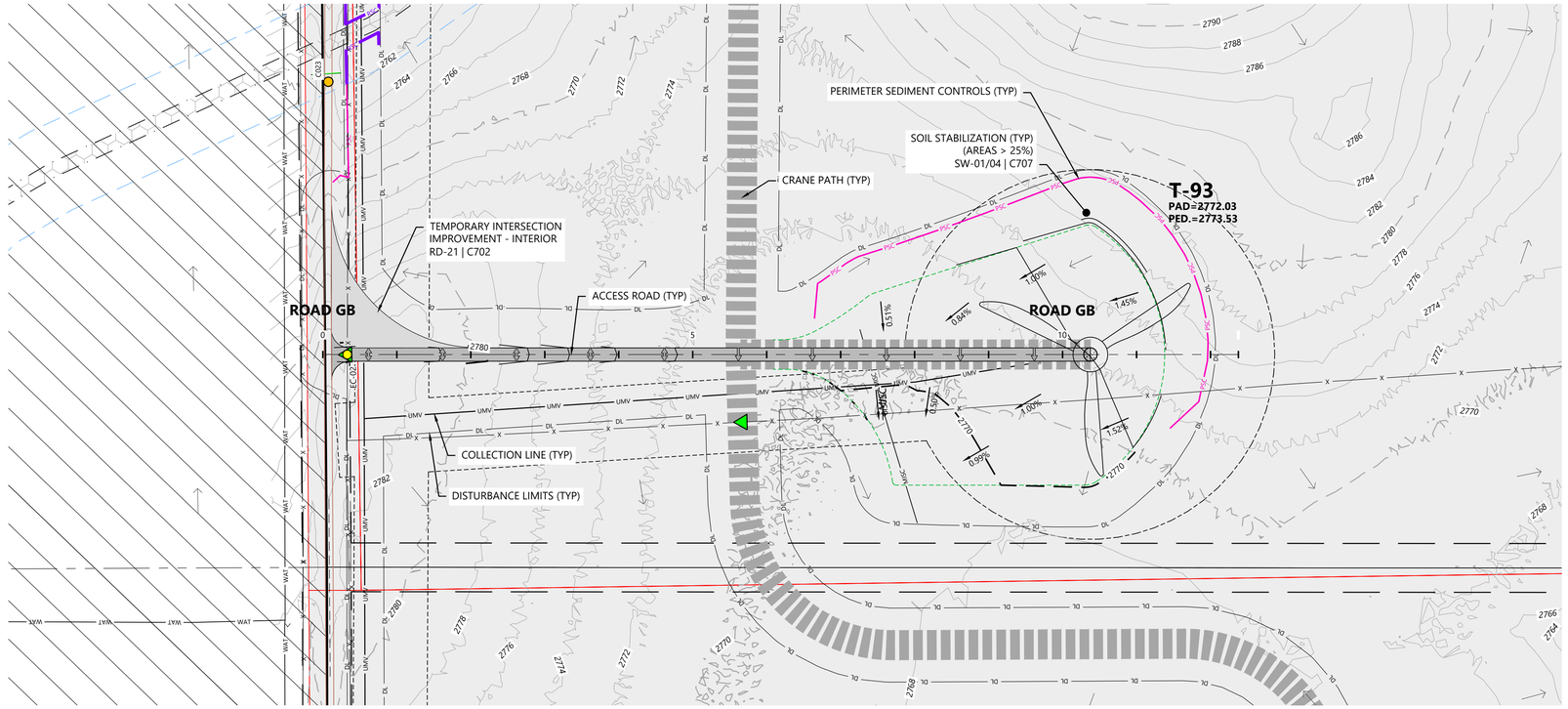
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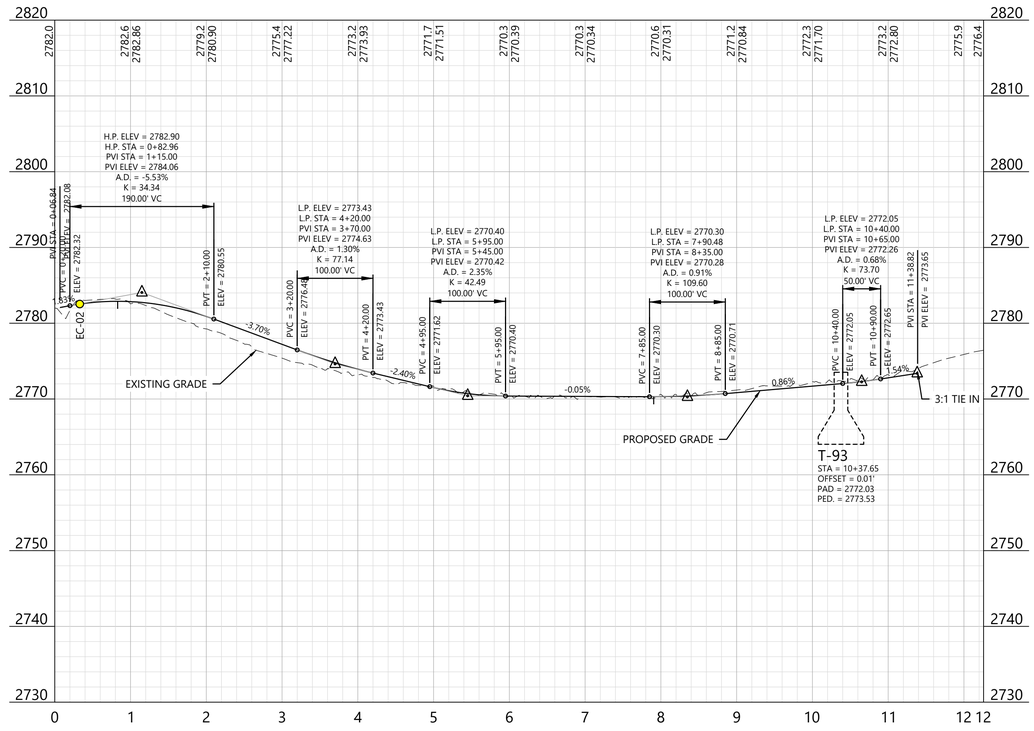
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REV: B

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EXISTING:

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- EASEMENT LINES
- SURVEY CORRIDOR
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- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
- WATERCOURSE LINE (DELINEATED)
- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
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PROPOSED:

- ## TURBINE LOCATION
- ## ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UMV UNDERGROUND COLLECTION
- OHV OVERHEAD TRANSMISSION
- PSC PERIMETER SEDIMENT CONTROL (PSC)
- RSC REDUNDANT PSC
- DL DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- 900 INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DC-# EC-# CP-# DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
- FENCE CROSSING
- UTILITY CROSSING
- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

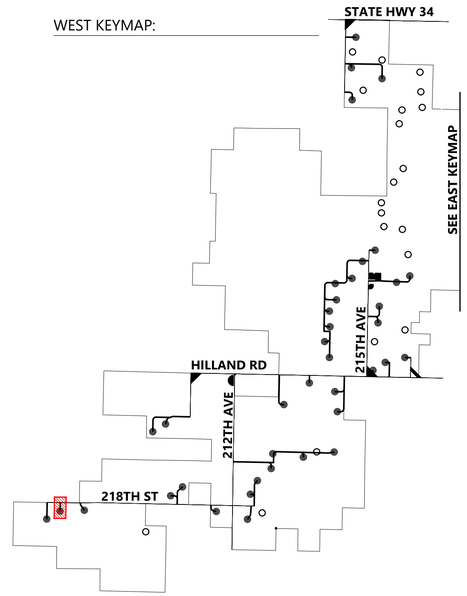
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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELFORD
NORTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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0' 100' 200' 300'

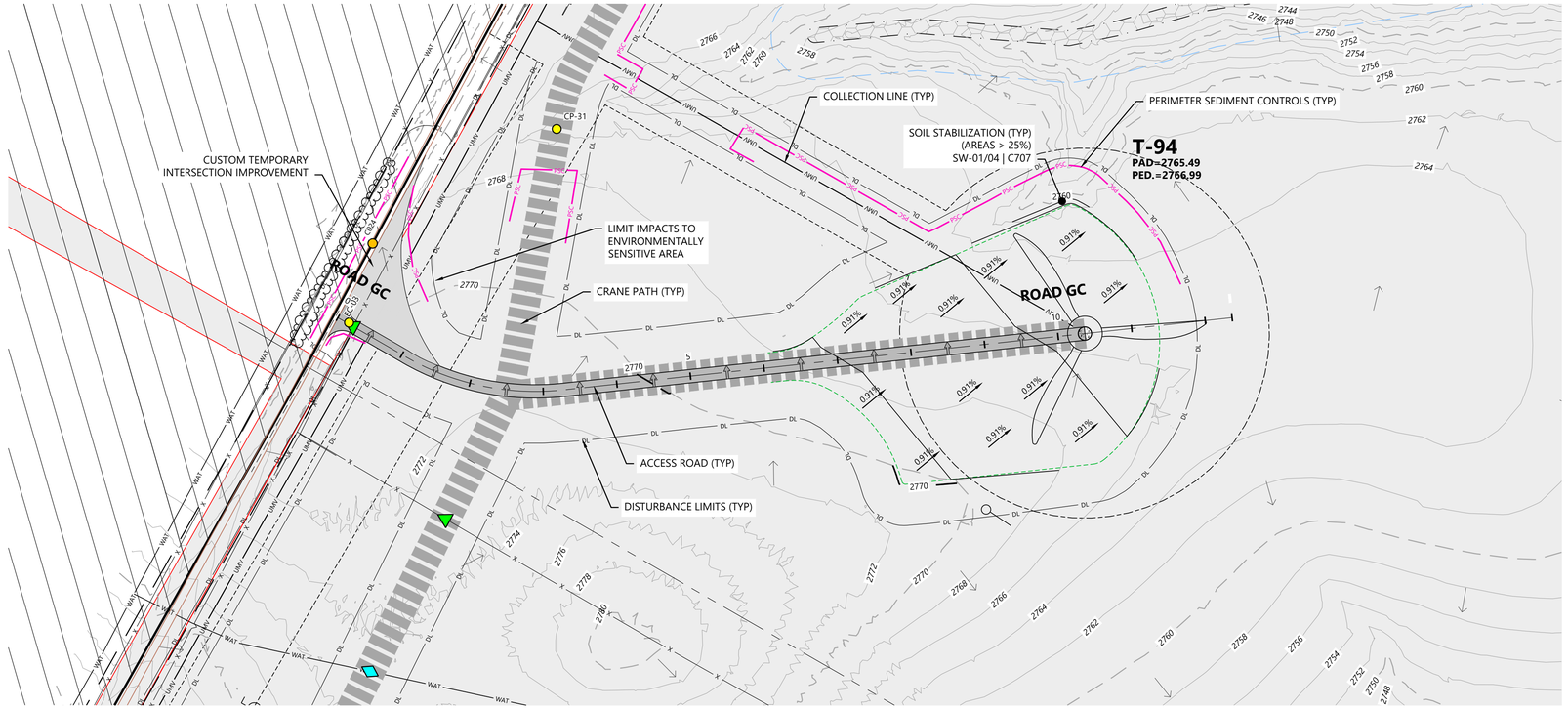
Philip Wind Project
Haakon County, South Dakota

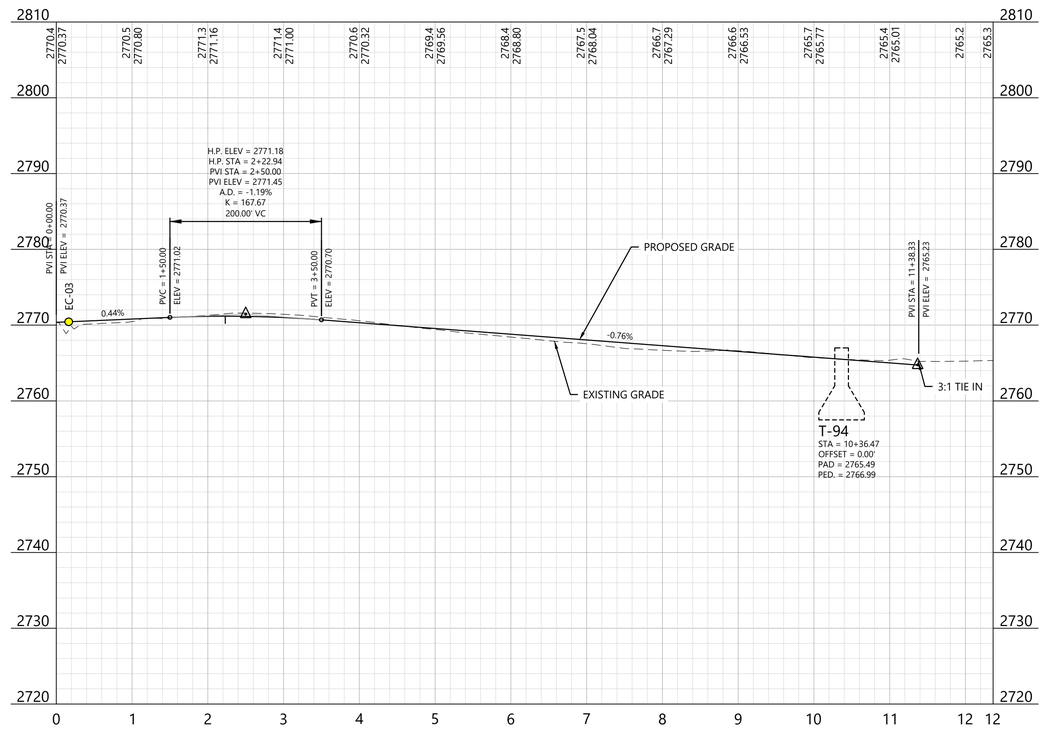
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ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C490
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
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- FENCE
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- REDUNDANT PSC
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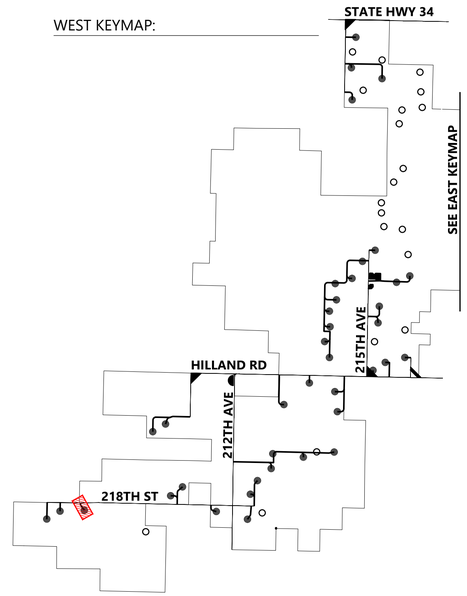
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Philip Wind Project

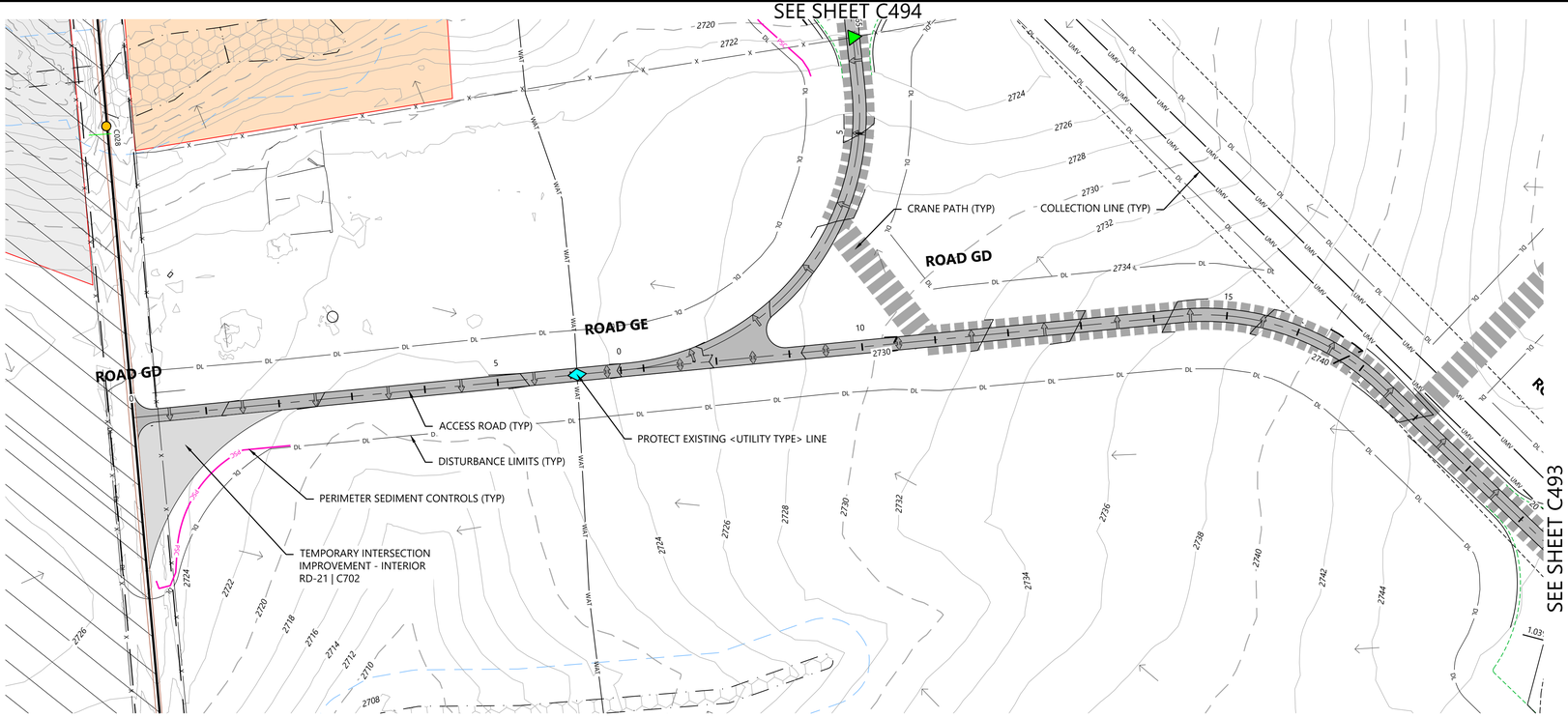
Haakon County, South Dakota

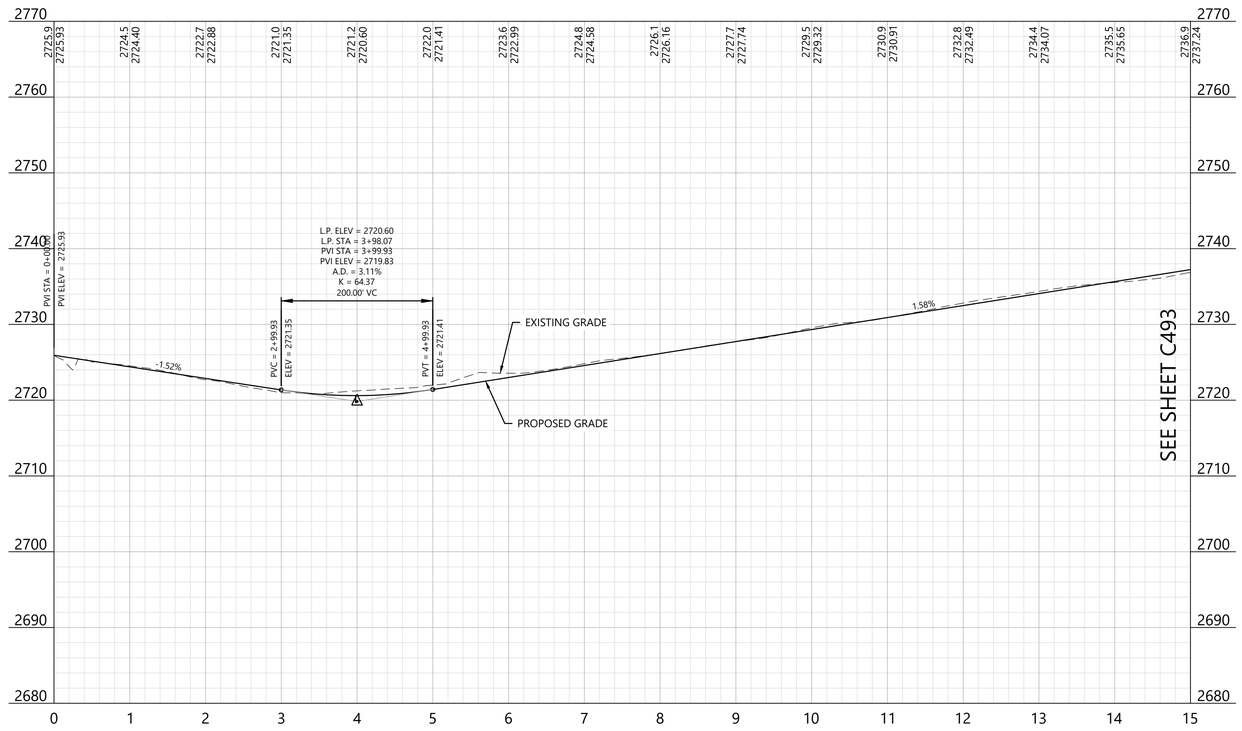
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ISSUED FOR PERMIT
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DATE: 05/07/2026
SHEET: C491
REV: B

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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
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- SURVEY CORRIDOR
- PARCEL LINES
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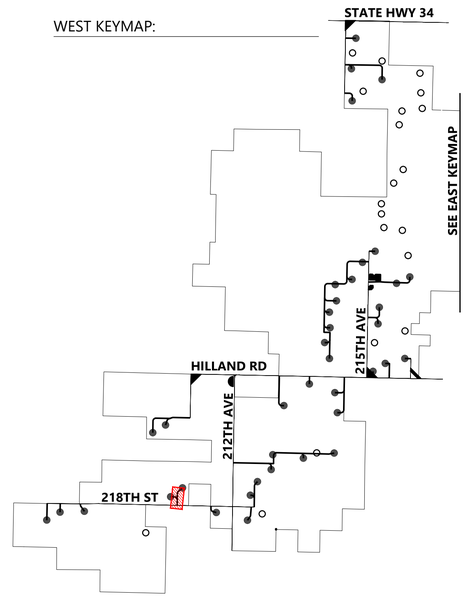
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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD GD - Sta. 0+00.00 to 15+00.00

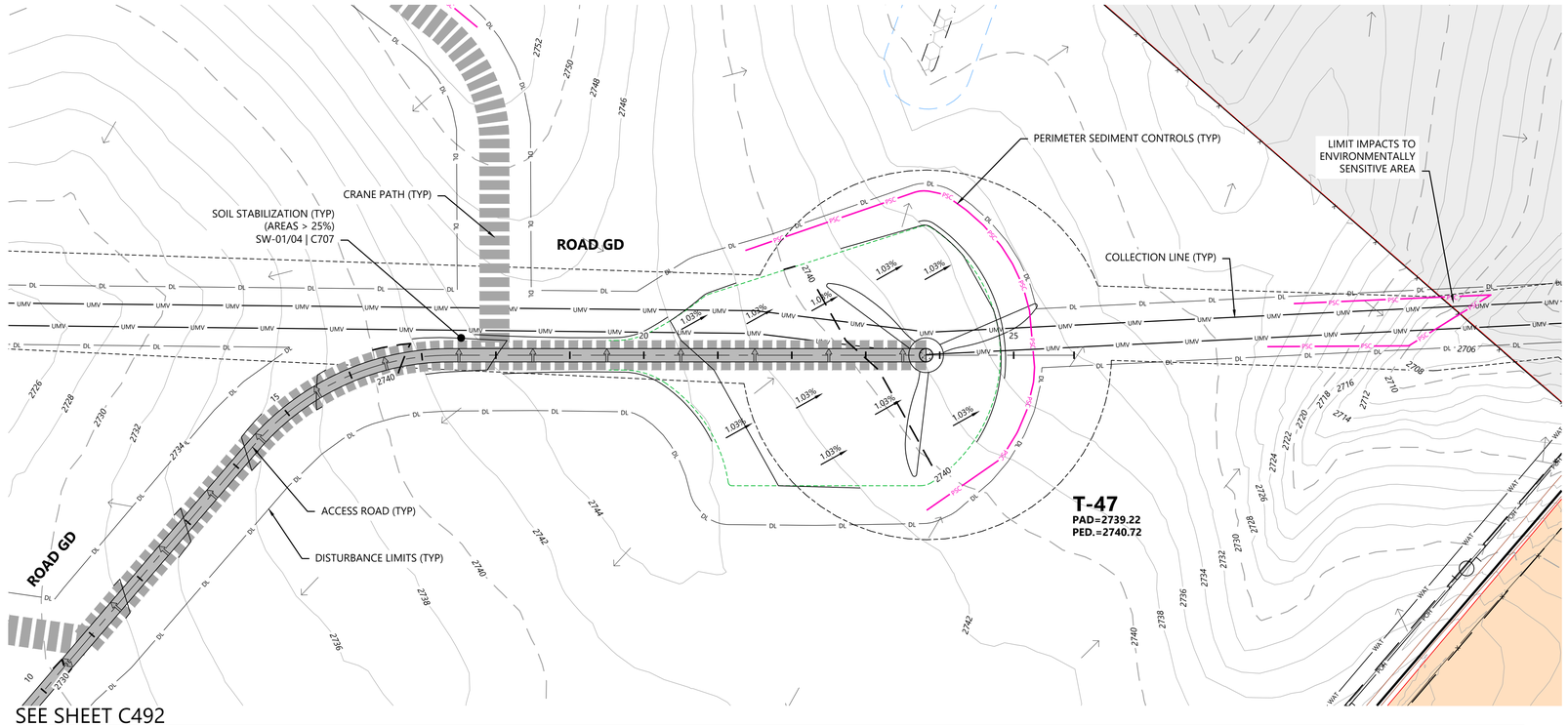
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DATE: 05/07/2026

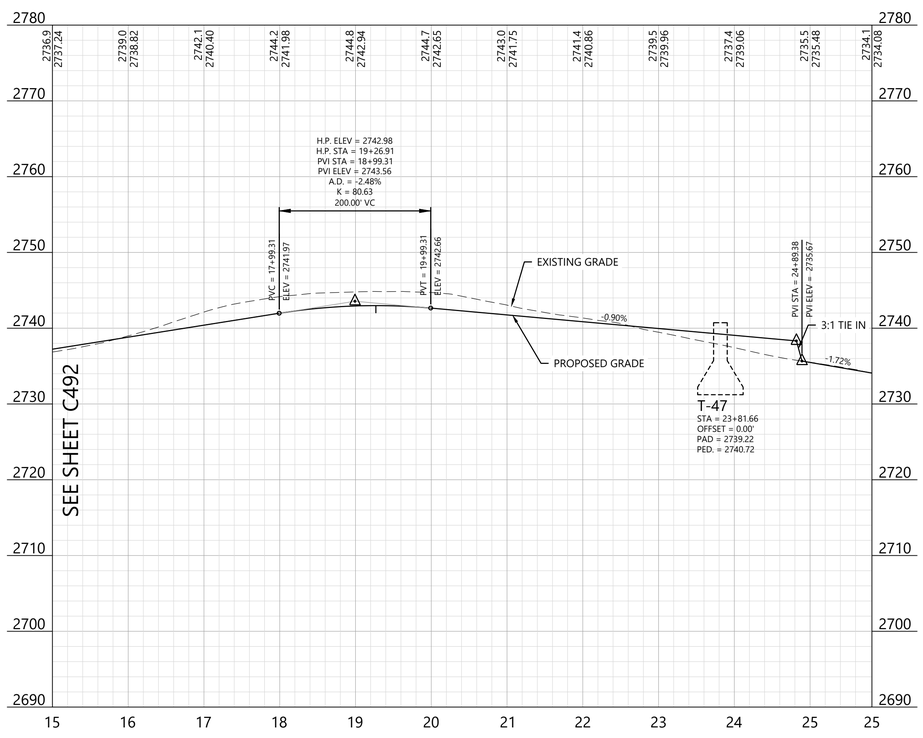
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REV: B

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SEE SHEET C492



LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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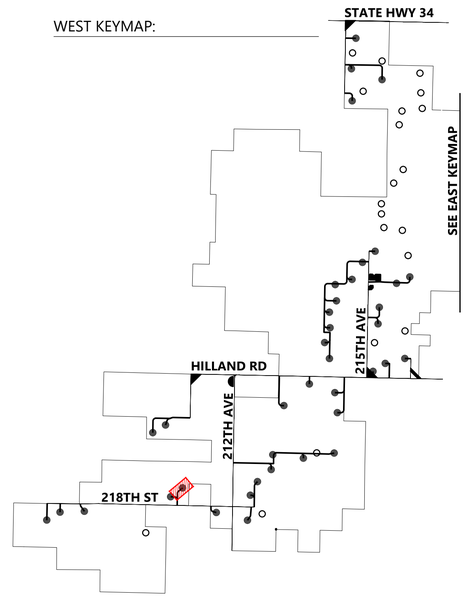
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0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD GD - Sta. 15+00.00 to End T-47

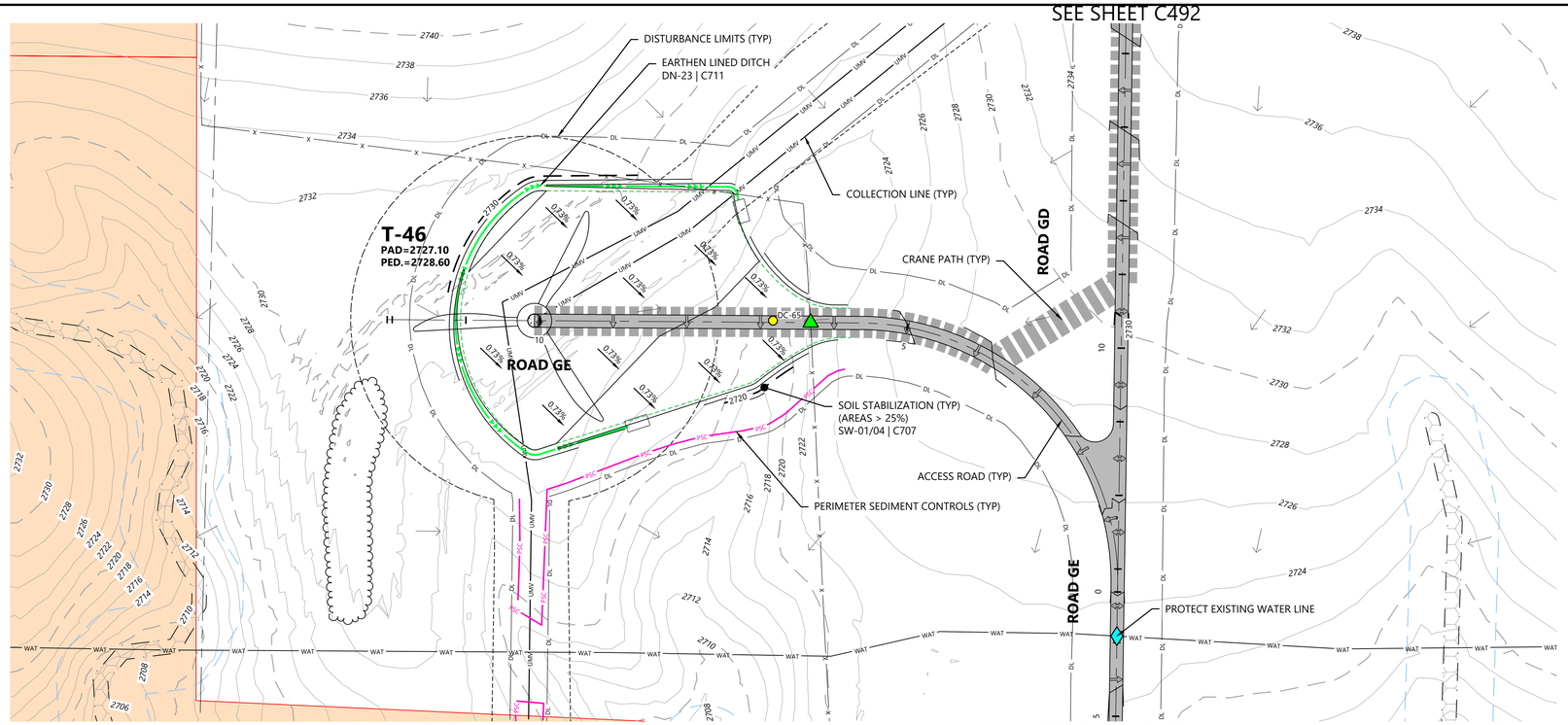
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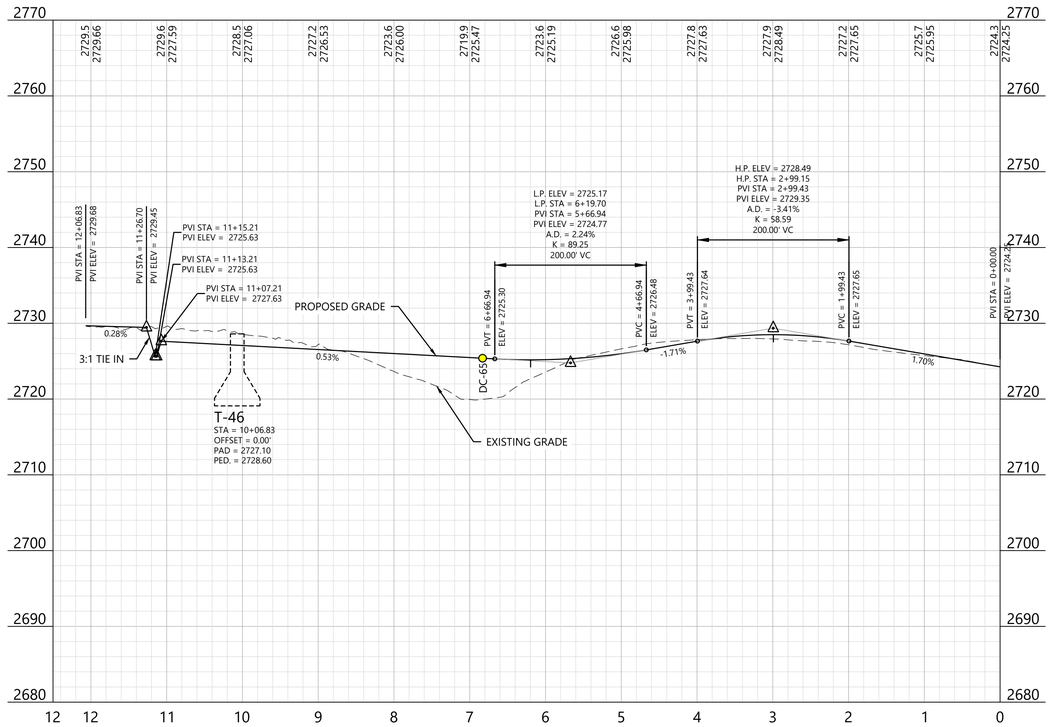
DATE: 05/07/2026

SHEET: C493

REV: B

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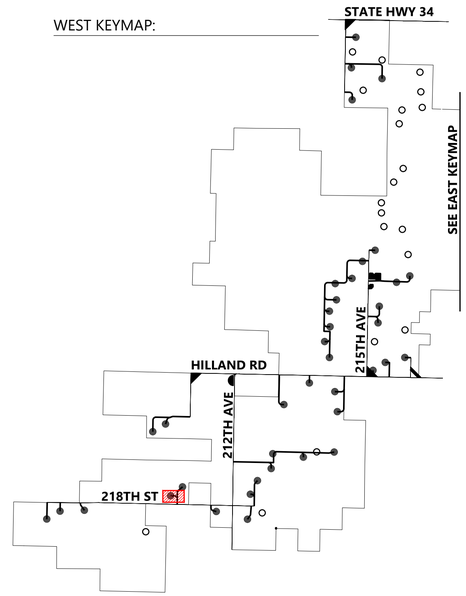
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ROAD GE - Sta. 0+00.00 to End T-46

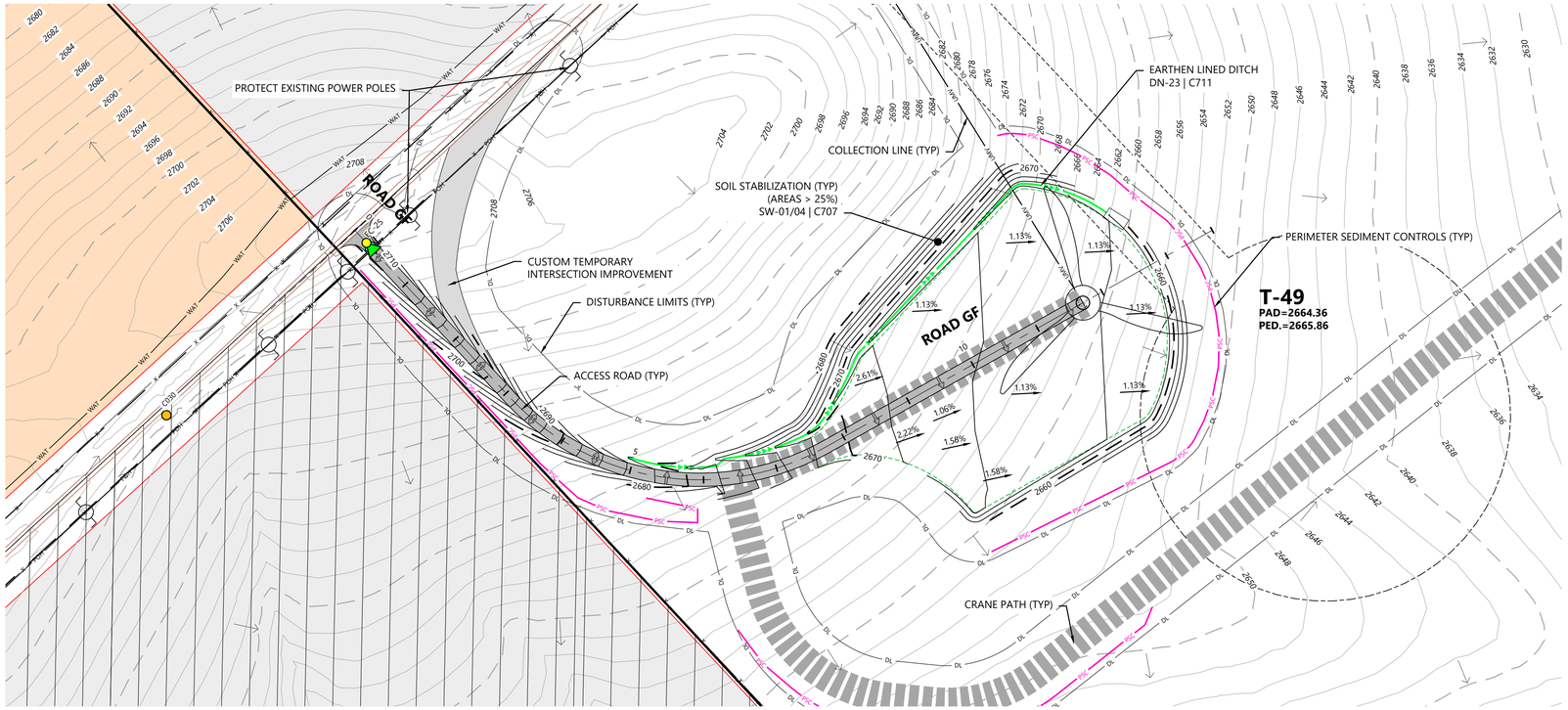
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NOT FOR CONSTRUCTION

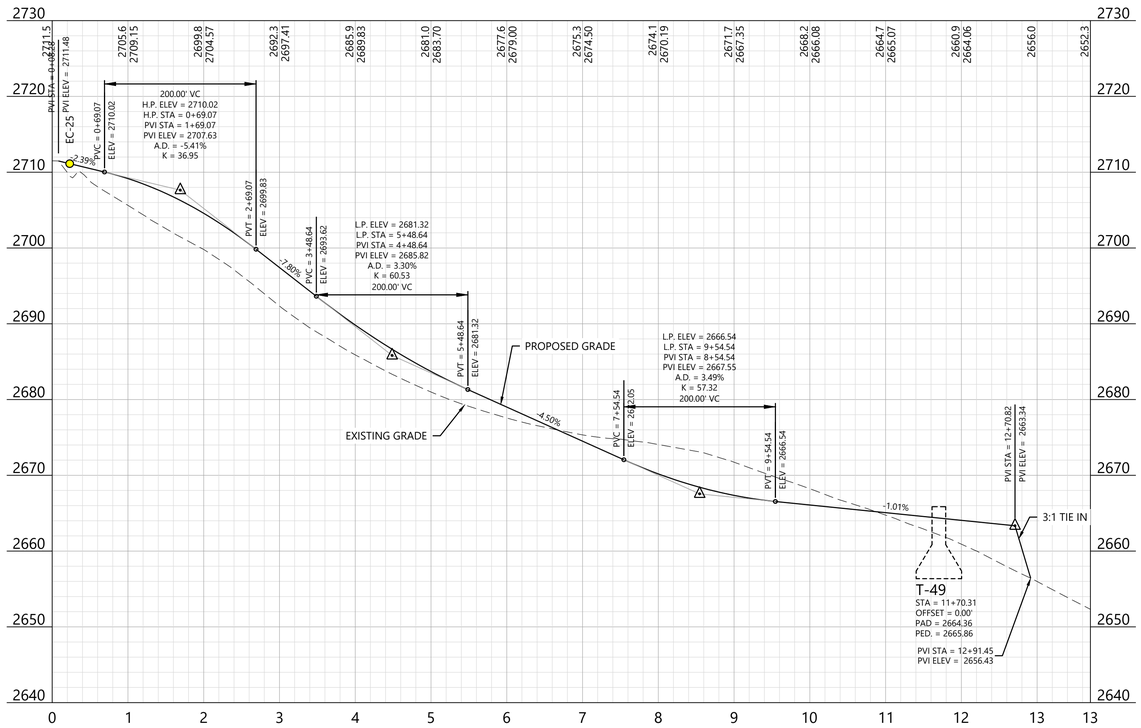
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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- TREELINE
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- FIBER OPTIC LINE
- WATER LINE
- UNKNOWN UTILITY LINE
- CULVERT
- WETLAND (PUBLIC DATA)
- WETLAND (DELINEATED)
- WATERCOURSE LINE (DELINEATED)
- WATERCOURSE/WETLAND BUFFER LINE (50 FT)
- DRAINAGE DIRECTION
- WATER EDGE (PUBLIC DATA)
- ENVIRONMENTALLY SENSITIVE AREA - MINIMIZE
- ENVIRONMENTALLY SENSITIVE AREA - AVOID
- GIS PROTECTED AREA OF THE US (PADUS) - AVOID

PROPOSED:

- TURBINE LOCATION
- ALT. TURBINE LOCATION
- ACCESS ROAD
- ACCESS ROAD WITH CRANE PATH
- CROSS-COUNTRY CRANE PATH
- TURBINE PAD EDGE
- TEMPORARY AGGREGATE
- UNDERGROUND COLLECTION
- OVERHEAD TRANSMISSION
- PERIMETER SEDIMENT CONTROL (PSC)
- REDUNDANT PSC
- DISTURBANCE LIMITS
- NON-PARTICIPATING LAND
- INDEX CONTOUR
- INTERVAL CONTOUR
- DITCH
- DRAINAGE CROSSING (SEE C004 FOR SCHEDULE)
- FENCE CROSSING
- UTILITY CROSSING
- ROAD CROSS SLOPE DIRECTION
- PROJECT FACILITIES

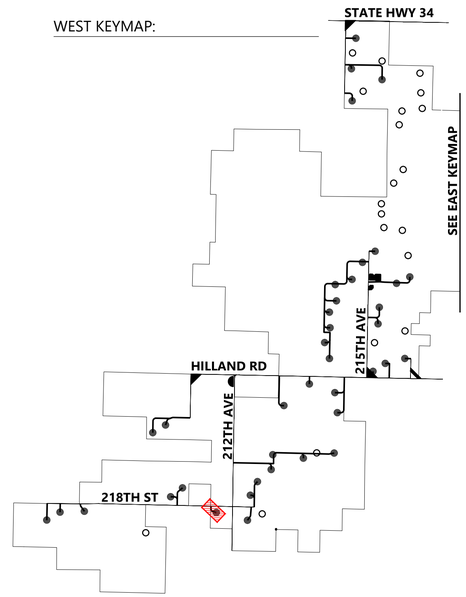
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WEST KEYMAP:



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westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELFER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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0' 100' 200' 300'

Philip Wind Project

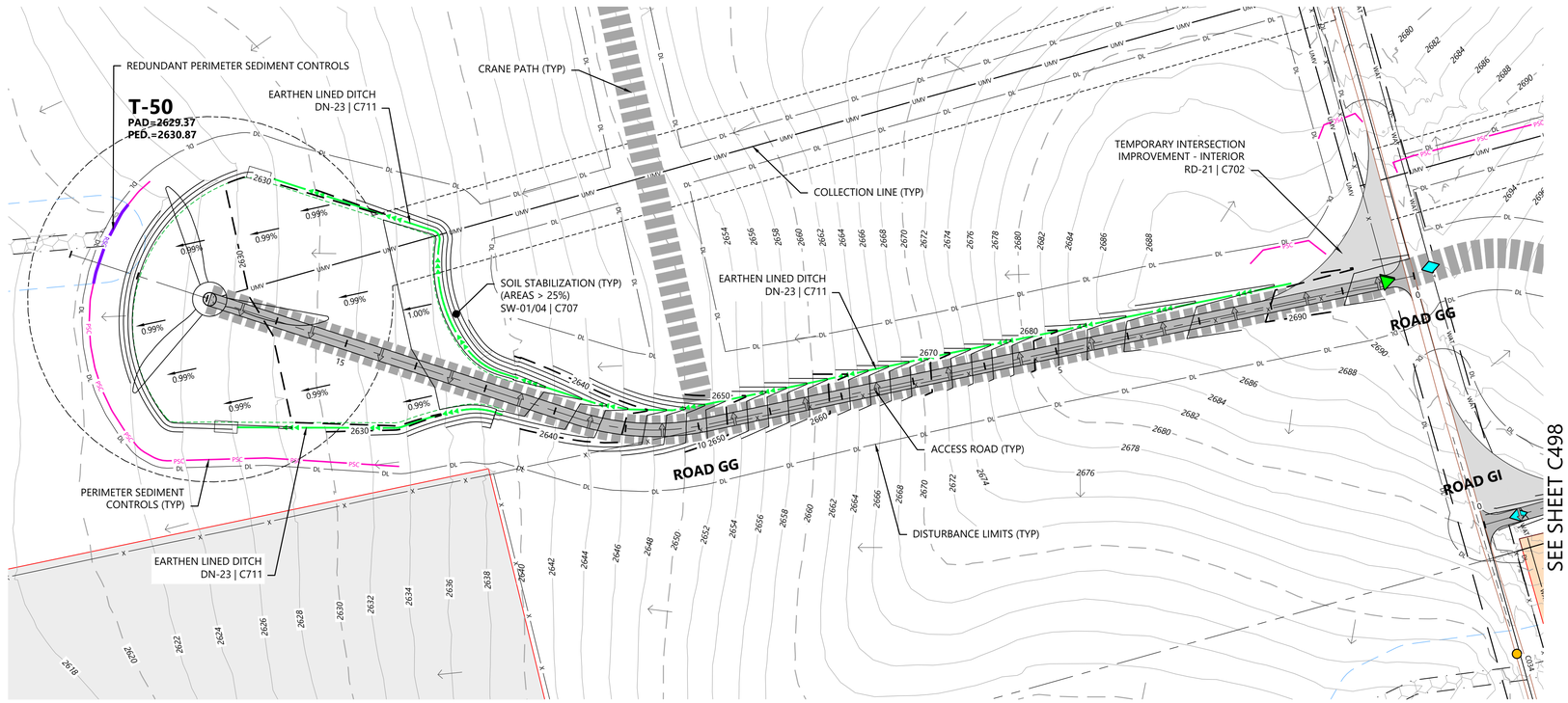
Haakon County, South Dakota

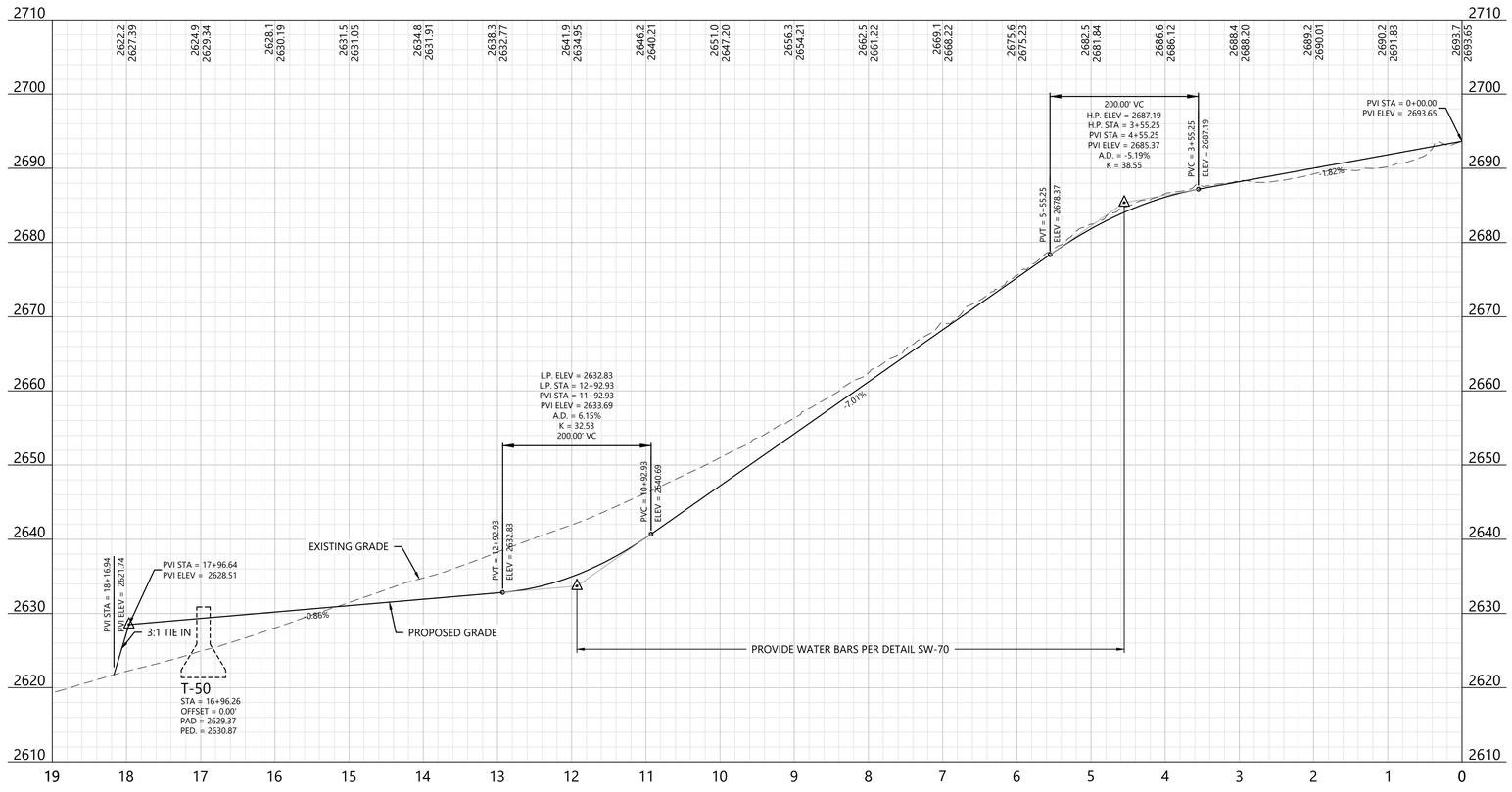
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ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C495
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
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- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
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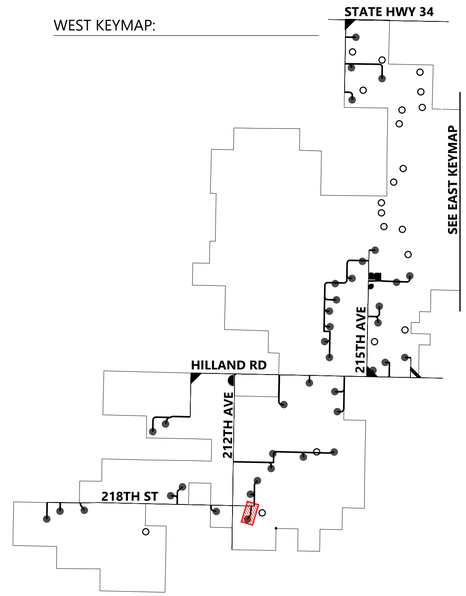
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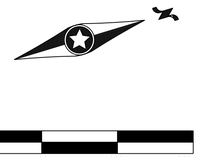
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WEST KEYMAP:





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Westwood Professional Services, Inc.



PREPARED FOR:

Invenergy

BLATTNER ENERGY

392 County Road 50
Avon, MN 56310

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Philip Wind Project

Haakon County, South Dakota

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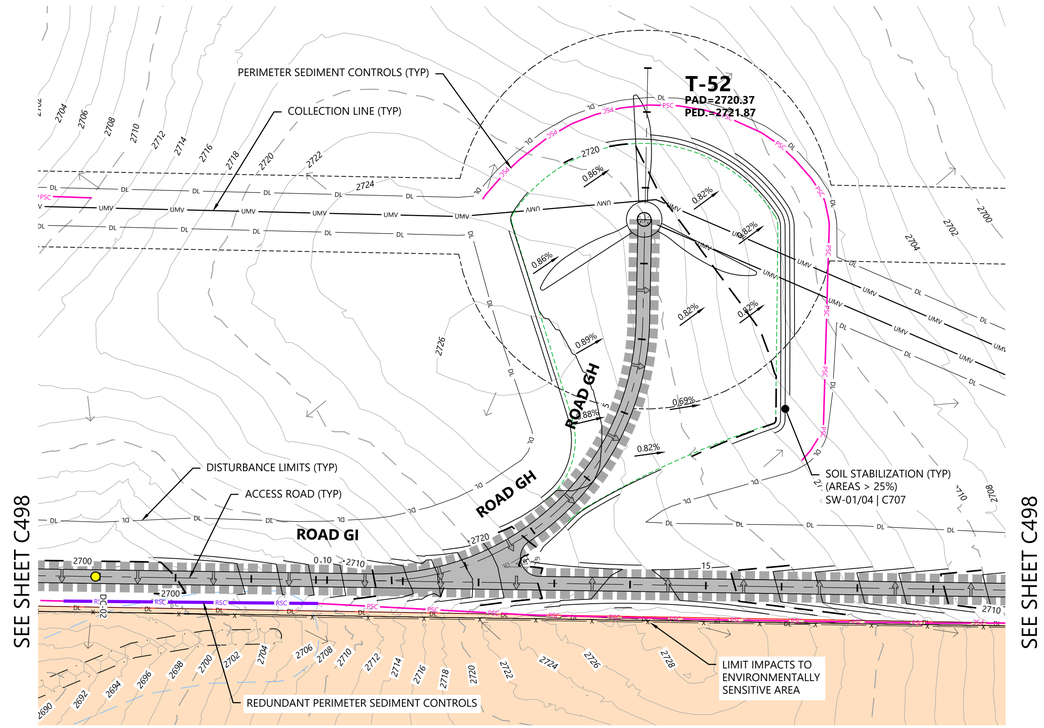
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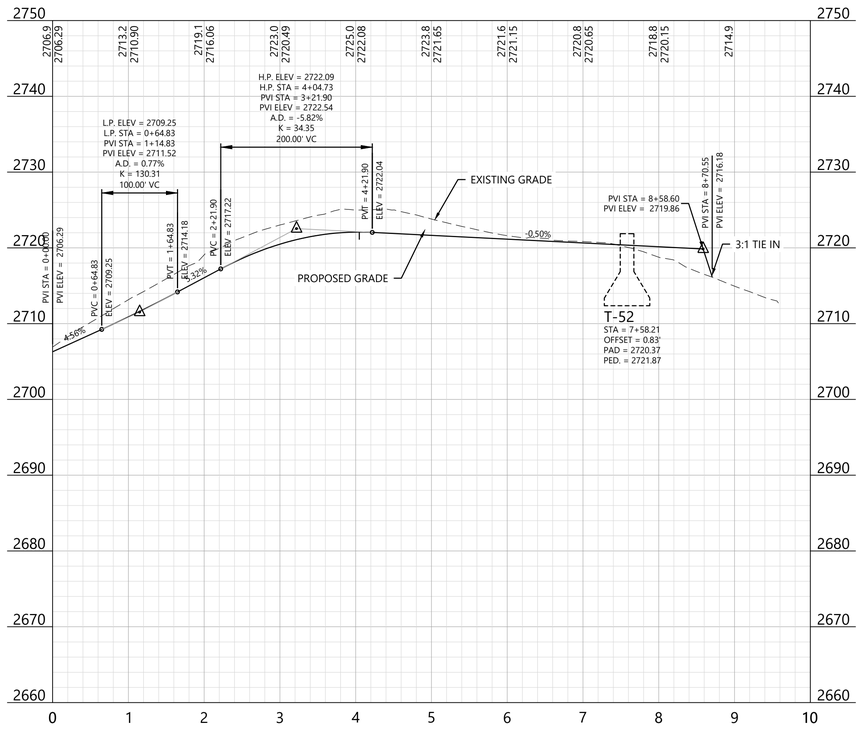
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LEGEND:

EXISTING:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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- ROAD CROSS SLOPE DIRECTION
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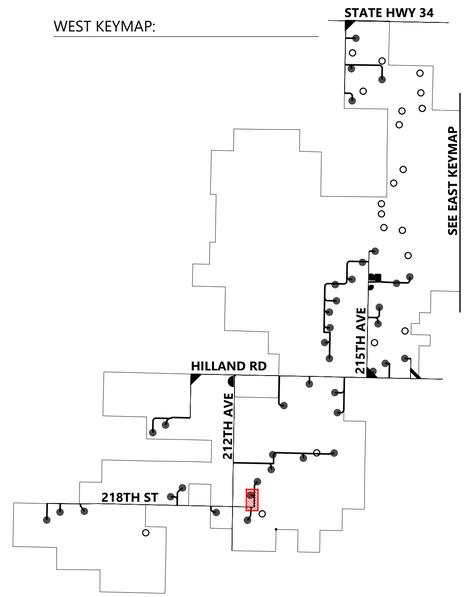
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WEST KEYMAP:



Westwood
Phone (281) 883-0103
Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELESHIAN
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
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0' 100' 200' 300'

Philip Wind Project

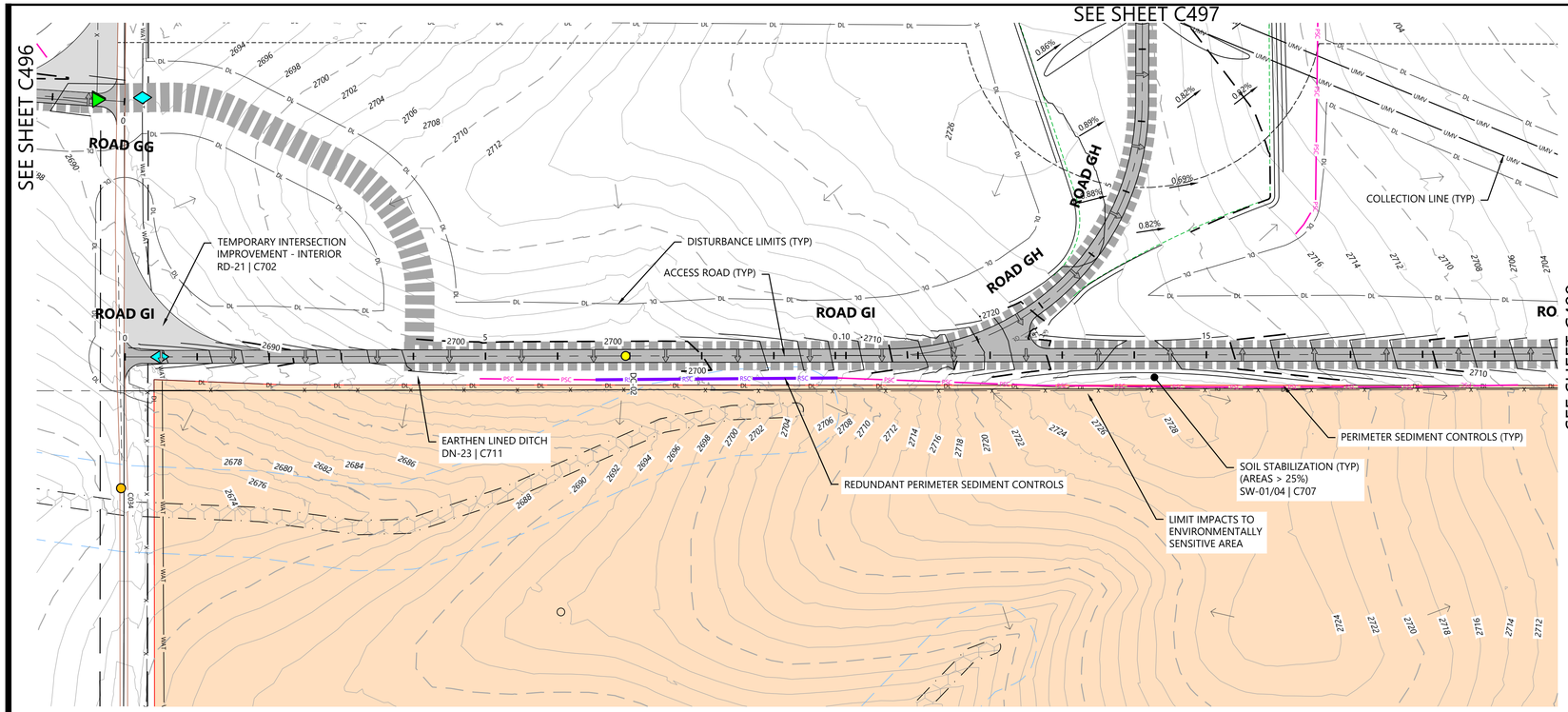
Haakon County, South Dakota

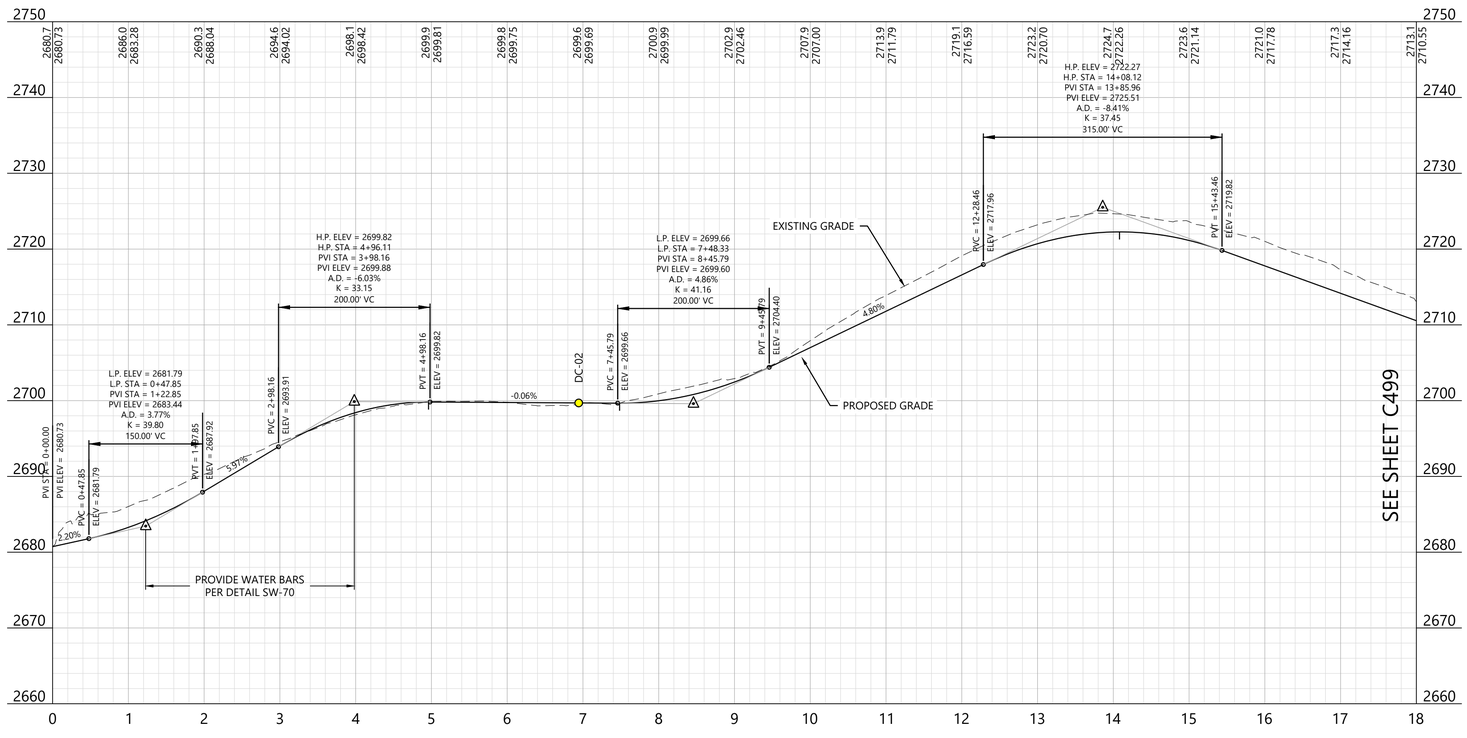
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NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C497
REV: B

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LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SURVEY CORRIDOR
- PARCEL LINES
- INDEX CONTOUR
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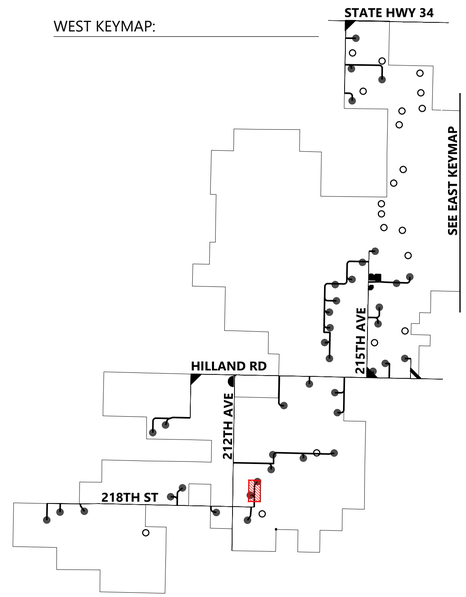
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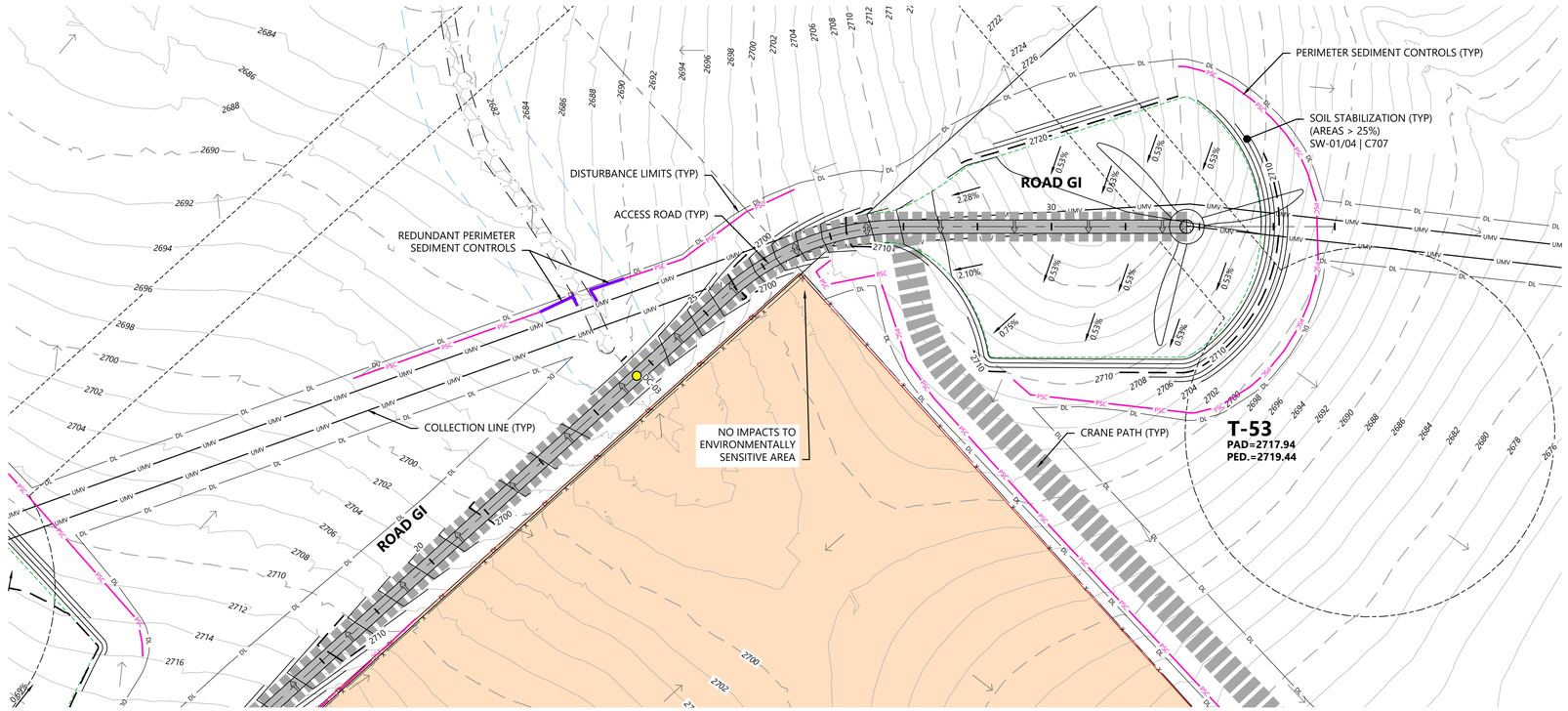
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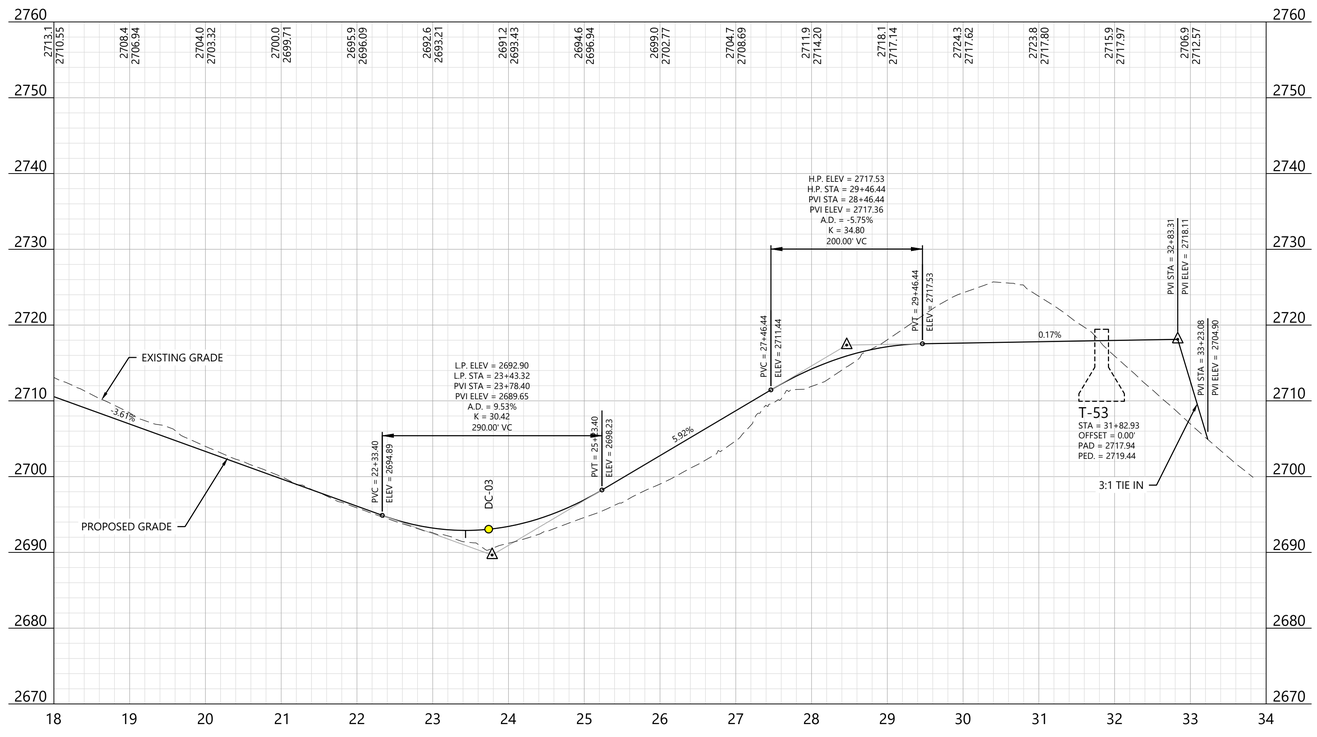
SHEET: C498

REV: B

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SEE SHEET C498



LEGEND:

EXISTING:

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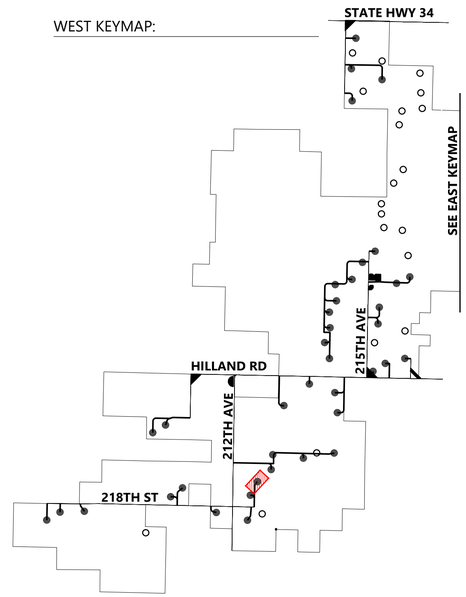
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4. SELECT BMP LOCATIONS ARE SHOWN ON THE PLANS. FIELD ADJUSTMENTS, ALTERNATIVES, OR ADDITIONAL BMPS MAY BE IMPLEMENTED TO ALIGN WITH THE CONTRACTOR'S MEANS AND METHODS, FIELD CONDITIONS, INSPECTIONS, AND ACTIVE CONSTRUCTION ACTIVITIES. MULTIPLE APPLICATIONS MAY BE NECESSARY.
5. REFER TO SHEET C704 - C711 FOR TYPICAL BMP APPLICATIONS INCLUDING:
   - 5.1. PERIMETER SEDIMENT CONTROLS (PSC) ALONG CONSTRUCTION PERIMETER
   - 5.2. SOIL STABILIZATION OF DISTURBED SOIL AREAS
   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

WEST KEYMAP:



Westwood
Phone (281) 883-0103
Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 100' 200' 300'

Philip Wind Project

Haakon County, South Dakota

ROAD GI - Sta. 18+00.00 to End T-53

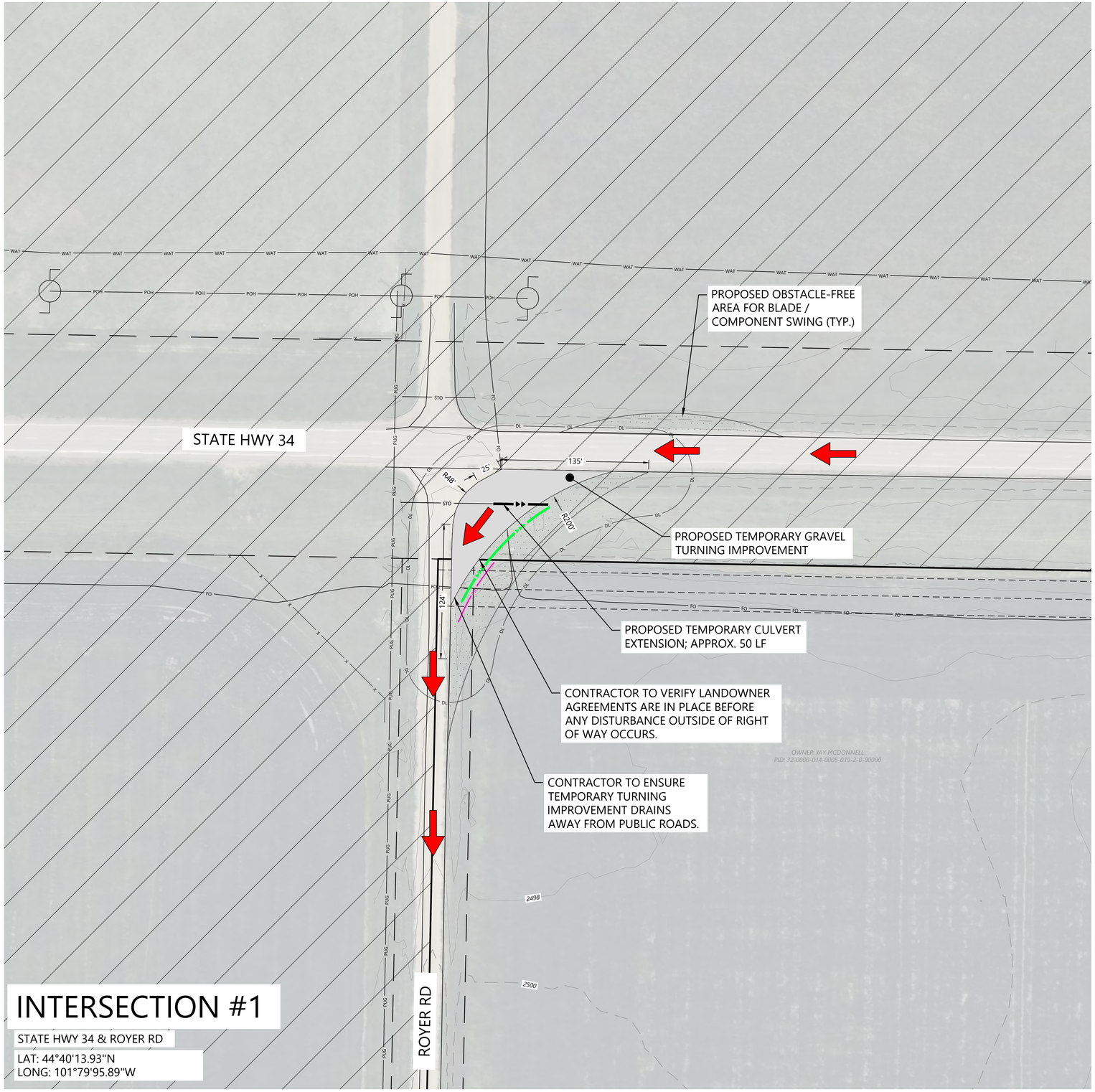
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C499

REV: B

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INTERSECTION #1

STATE HWY 34 & ROYER RD

LAT: 44°40'13.93"N
LONG: 101°79'95.89"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- UNDERGROUND POWER
- FIBER OPTIC LINE
- CULVERT
- WATER LINE
- WETLAND (PUBLIC DATA)

PROPOSED:

- TEMPORARY AGGREGATE
- OBSTRUCTION FREE ZONE (CLEAR ZONE)
- UNDERGROUND COLLECTION
- PERIMETER SEDIMENT CONTROL
- DISTURBANCE LIMITS
- DITCH
- TEMPORARY CULVERT
- NON-PARTICIPATING LAND
- DELIVERY ROUTE (INGRESS)

GENERAL NOTES:

1. REFER TO THE GENERAL CONSTRUCTION NOTES ON SHEET C713 OF THIS PLAN SET FOR ADDITIONAL INFORMATION AND TESTING REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL STATE AND LOCAL ORDINANCES AND FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO INITIATING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE TRAFFIC CONTROL AND TEMPORARILY RELOCATE ALL IMPACTED SIGNAGE AS REQUIRED BY STATE OR COUNTY OFFICIALS.
4. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VIOLATIONS OF THE OBSTRUCTION FREE ZONE NOT SHOWN ON THE PLANS.
5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND CONTACT ENGINEER IF DESIGN CONFLICTS ARE IDENTIFIED.
6. COORDINATE WITH UTILITY OWNERS PRIOR TO CONSTRUCTION AND REFER TO THE UTILITY CROSSING REQUIREMENTS OR AGREEMENTS, AS APPLICABLE.
7. PROVIDE POSITIVE DRAINAGE IN ALL TEMPORARY IMPROVEMENT AREAS.
8. ALL CUT/FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED ON THE PLANS OR REQUIRED BY THE PERMITTING AGENCY.
9. TEMPORARY CULVERTS SHOWN ON THE PLANS ARE BASED UPON OBSERVATION OF TOPOGRAPHIC CONTOURS, AERIAL IMAGERY AND ENGINEERING ANALYSIS. ADDITIONAL TEMPORARY CULVERTS MAY BE NEEDED WHERE FIELD CONDITIONS INDICATE AN INCISED CHANNEL. CONTRACTOR SHALL FIELD FIT TEMPORARY CULVERTS WITHIN THE ROADSIDE DITCH AND PROVIDE ADEQUATE COVER. COORDINATE WITH CIVIL ENGINEER AS NEEDED.
9. TEMPORARY CULVERT INSTALLATION SHALL CONFORM TO MANUFACTURER RECOMMENDATIONS BASED ON MATERIALS, INSTALLATION METHODS, SIZE, AND ANTICIPATED LOADINGS.
10. CONFIRM TEMPORARY CULVERT END TREATMENTS AND MATERIALS WITH APPROPRIATE JURISDICTION.
11. UPON COMPLETION OF DELIVERIES, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERTS TO BE REMOVED, AND ALL DISTURBED AREAS STABILIZED AND RESTORED TO NATIVE CONDITIONS.
12. CONDITIONS OF EXISTING CULVERTS TO BE FIELD VERIFIED AND MONITORED DURING CONSTRUCTION. COORDINATE WITH APPROPRIATE JURISDICTION IF ANY CULVERT DAMAGE OCCURS AS A RESULT OF CONSTRUCTION ACTIVITIES.
13. REFER TO SHEET C703 FOR THE TEMPORARY AGGREGATE STRUCTURAL SECTION.
14. AUTOTURN MODELING UTILIZED A NORDEX N163 VEHICLE PROVIDED BY INVENERGY.

EROSION AND SEDIMENT CONTROL NOTES:

1. REFER TO THE CONSTRUCTION GENERAL PERMIT (CGP), THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND SHEET C715 FOR ADDITIONAL INFORMATION.
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0' 50' 100' 150'

Philip Wind Project

Haakon County, South Dakota

Public Improvement 1

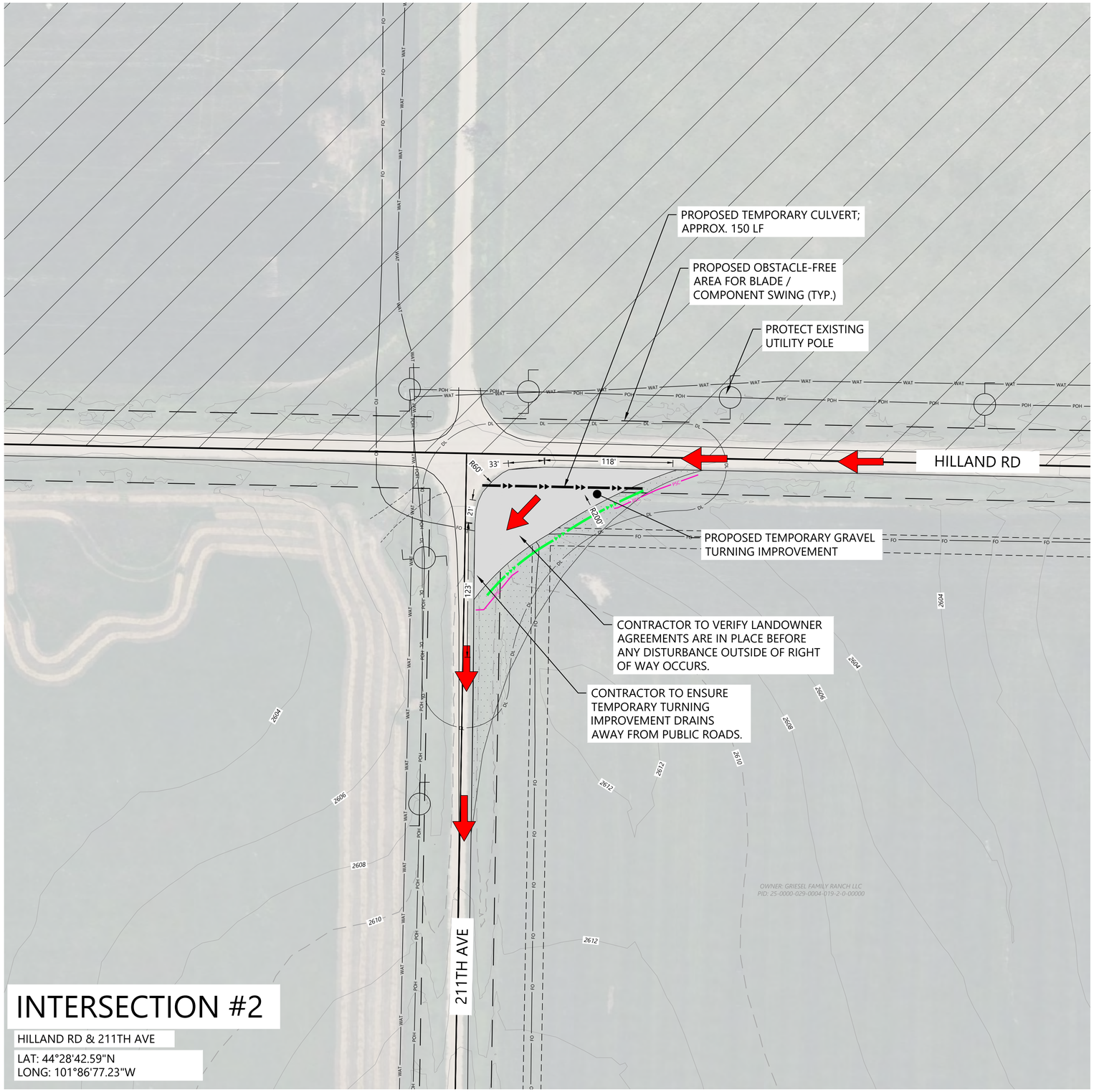
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C501

REV: B

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INTERSECTION #2

HILLAND RD & 211TH AVE

LAT: 44°28'42.59"N
LONG: 101°86'77.23"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- UNDERGROUND POWER
- FIBER OPTIC LINE
- CULVERT
- WATER LINE
- WETLAND (PUBLIC DATA)

PROPOSED:

- TEMPORARY AGGREGATE
- OBSTRUCTION FREE ZONE (CLEAR ZONE)
- UNDERGROUND COLLECTION
- PERIMETER SEDIMENT CONTROL
- DISTURBANCE LIMITS
- DITCH
- TEMPORARY CULVERT
- NON-PARTICIPATING LAND
- DELIVERY ROUTE (INGRESS)

GENERAL NOTES:

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3. CONTRACTOR TO PROVIDE TRAFFIC CONTROL AND TEMPORARILY RELOCATE ALL IMPACTED SIGNAGE AS REQUIRED BY STATE OR COUNTY OFFICIALS.
4. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VIOLATIONS OF THE OBSTRUCTION FREE ZONE NOT SHOWN ON THE PLANS.
5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND CONTACT ENGINEER IF DESIGN CONFLICTS ARE IDENTIFIED.
6. COORDINATE WITH UTILITY OWNERS PRIOR TO CONSTRUCTION AND REFER TO THE UTILITY CROSSING REQUIREMENTS OR AGREEMENTS, AS APPLICABLE.
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9. TEMPORARY CULVERT INSTALLATION SHALL CONFORM TO MANUFACTURER RECOMMENDATIONS BASED ON MATERIALS, INSTALLATION METHODS, SIZE, AND ANTICIPATED LOADINGS.
10. CONFIRM TEMPORARY CULVERT END TREATMENTS AND MATERIALS WITH APPROPRIATE JURISDICTION.
11. UPON COMPLETION OF DELIVERIES, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERTS TO BE REMOVED, AND ALL DISTURBED AREAS STABILIZED AND RESTORED TO NATIVE CONDITIONS.
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13. REFER TO SHEET C703 FOR THE TEMPORARY AGGREGATE STRUCTURAL SECTION.
14. AUTOTURN MODELING UTILIZED A NORDEX N163 VEHICLE PROVIDED BY INVENERGY.

EROSION AND SEDIMENT CONTROL NOTES:

1. REFER TO THE CONSTRUCTION GENERAL PERMIT (CGP), THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND SHEET C715 FOR ADDITIONAL INFORMATION.
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0' 50' 100' 150'

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DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

Public Improvement 2

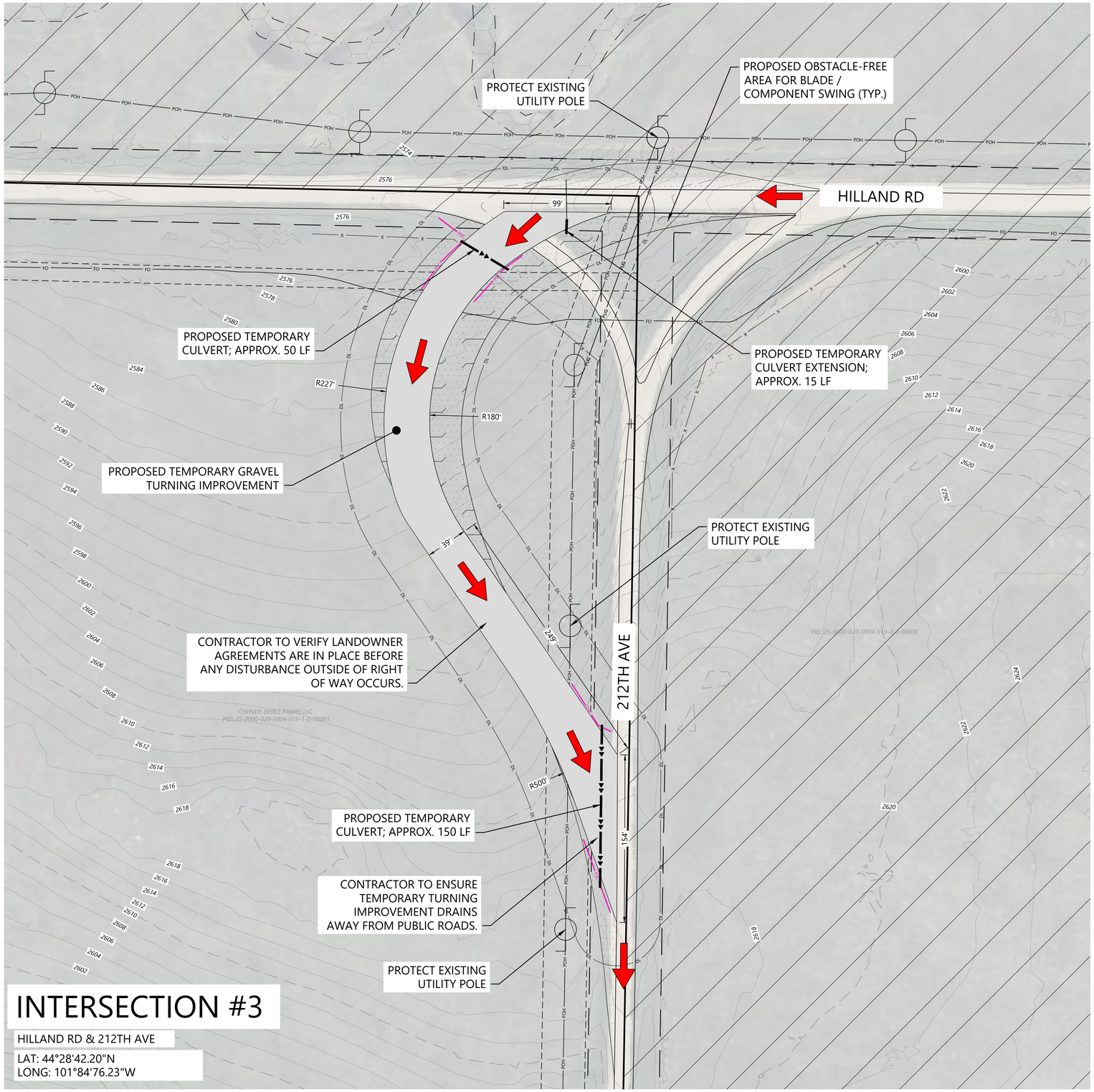
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C502

REV: B

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INTERSECTION #3

HILLAND RD & 212TH AVE

LAT: 44°28'42.20"N
LONG: 101°84'76.23"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- UNDERGROUND POWER
- FIBER OPTIC LINE
- CULVERT
- WATER LINE
- WETLAND (PUBLIC DATA)

PROPOSED:

- TEMPORARY AGGREGATE
- OBSTRUCTION FREE ZONE (CLEAR ZONE)
- UNDERGROUND COLLECTION
- PERIMETER SEDIMENT CONTROL
- DISTURBANCE LIMITS
- DITCH
- TEMPORARY CULVERT
- NON-PARTICIPATING LAND
- DELIVERY ROUTE (INGRESS)

GENERAL NOTES:

1. REFER TO THE GENERAL CONSTRUCTION NOTES ON SHEET C713 OF THIS PLAN SET FOR ADDITIONAL INFORMATION AND TESTING REQUIREMENTS.
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5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND CONTACT ENGINEER IF DESIGN CONFLICTS ARE IDENTIFIED.
6. COORDINATE WITH UTILITY OWNERS PRIOR TO CONSTRUCTION AND REFER TO THE UTILITY CROSSING REQUIREMENTS OR AGREEMENTS, AS APPLICABLE.
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13. REFER TO SHEET C703 FOR THE TEMPORARY AGGREGATE STRUCTURAL SECTION.
14. AUTOTURN MODELING UTILIZED A NORDEX N163 VEHICLE PROVIDED BY INVENERGY.

EROSION AND SEDIMENT CONTROL NOTES:

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06/17/26

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BLATTNER ENERGY
392 County Road 50
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REVISIONS:

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A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
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0' 50' 100' 150'

Philip Wind Project
Haakon County, South Dakota

Public Improvement 3

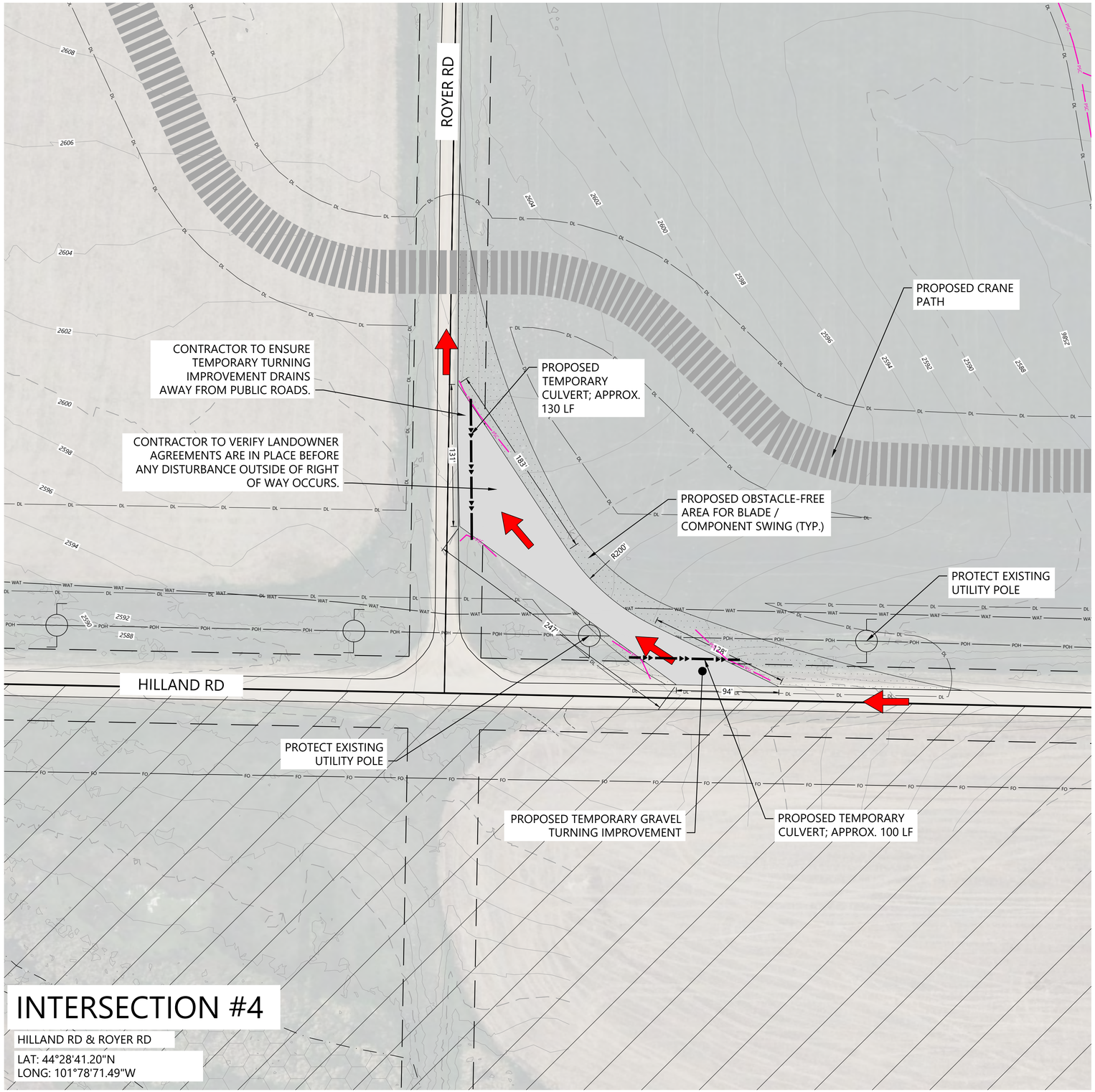
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C503

REV: B

\\westwoodps.loc\dfGlobal Projects\09155\04\01_C&D_Civil\09155041SIC.MXT.dwg, 5/7/2026 2:31 PM, Hevone Bodiyowei Chawo



INTERSECTION #4

HILLAND RD & ROYER RD

LAT: 44°28'41.20"N
LONG: 101°78'71.49"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
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- INDEX CONTOUR
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PROPOSED:

- TEMPORARY AGGREGATE
- OBSTRUCTION FREE ZONE (CLEAR ZONE)
- UNDERGROUND COLLECTION
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- DISTURBANCE LIMITS
- DITCH
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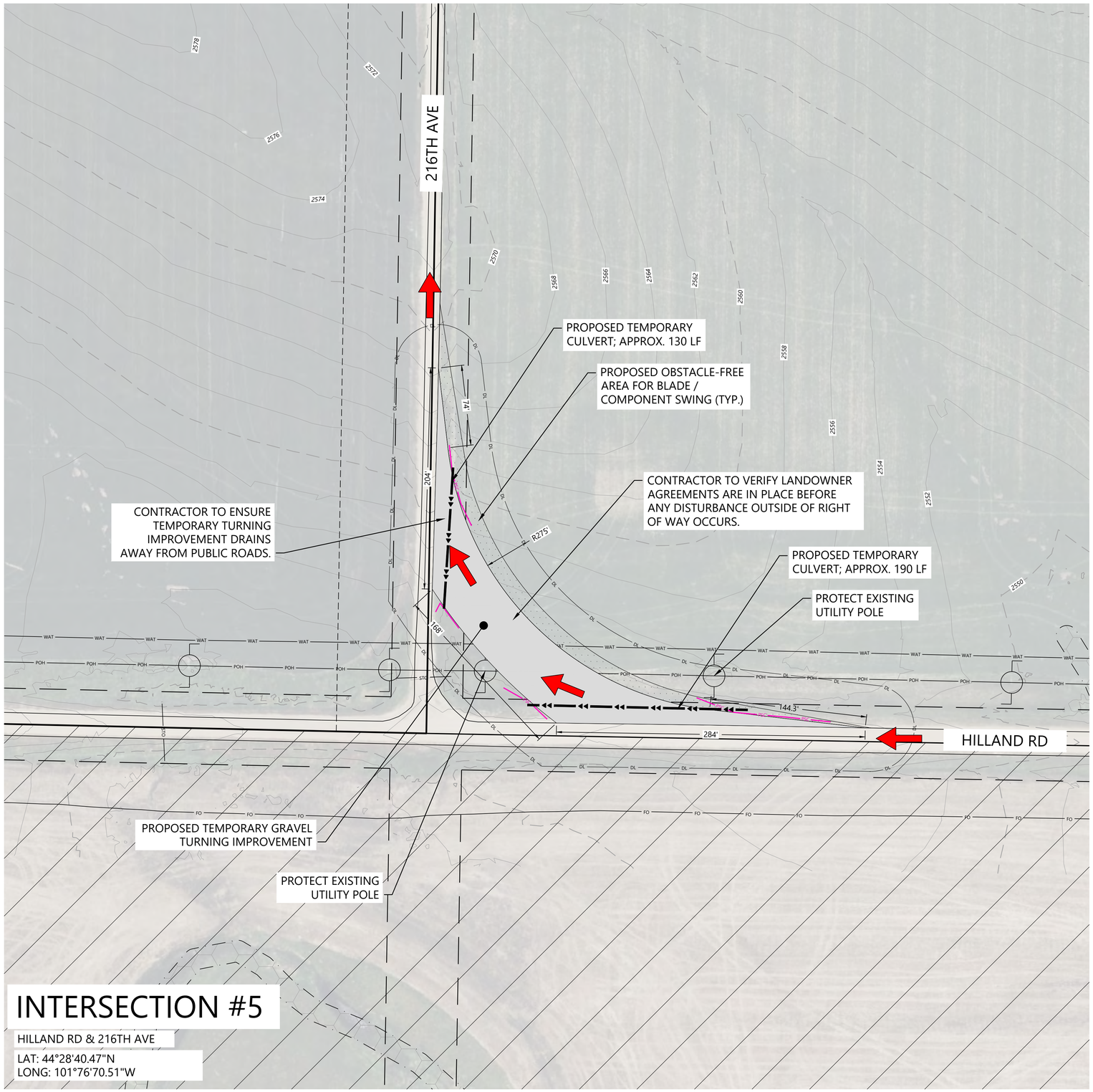
Philip Wind Project
Haakon County, South Dakota

Public Improvement 4

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C504
REV: B

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INTERSECTION #5

HILLAND RD & 216TH AVE

LAT: 44°28'40.47"N
LONG: 101°76'70.51"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
- UNDERGROUND POWER
- FIBER OPTIC LINE
- CULVERT
- WATER LINE
- WETLAND (PUBLIC DATA)

PROPOSED:

- TEMPORARY AGGREGATE
- OBSTRUCTION FREE ZONE (CLEAR ZONE)
- UNDERGROUND COLLECTION
- PERIMETER SEDIMENT CONTROL
- DISTURBANCE LIMITS
- DITCH
- TEMPORARY CULVERT
- NON-PARTICIPATING LAND
- DELIVERY ROUTE (INGRESS)

GENERAL NOTES:

1. REFER TO THE GENERAL CONSTRUCTION NOTES ON SHEET C713 OF THIS PLAN SET FOR ADDITIONAL INFORMATION AND TESTING REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL STATE AND LOCAL ORDINANCES AND FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO INITIATING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE TRAFFIC CONTROL AND TEMPORARILY RELOCATE ALL IMPACTED SIGNAGE AS REQUIRED BY STATE OR COUNTY OFFICIALS.
4. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VIOLATIONS OF THE OBSTRUCTION FREE ZONE NOT SHOWN ON THE PLANS.
5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND CONTACT ENGINEER IF DESIGN CONFLICTS ARE IDENTIFIED.
6. COORDINATE WITH UTILITY OWNERS PRIOR TO CONSTRUCTION AND REFER TO THE UTILITY CROSSING REQUIREMENTS OR AGREEMENTS, AS APPLICABLE.
7. PROVIDE POSITIVE DRAINAGE IN ALL TEMPORARY IMPROVEMENT AREAS.
8. ALL CUT/FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED ON THE PLANS OR REQUIRED BY THE PERMITTING AGENCY.
9. TEMPORARY CULVERTS SHOWN ON THE PLANS ARE BASED UPON OBSERVATION OF TOPOGRAPHIC CONTOURS, AERIAL IMAGERY AND ENGINEERING ANALYSIS. ADDITIONAL TEMPORARY CULVERTS MAY BE NEEDED WHERE FIELD CONDITIONS INDICATE AN INCISED CHANNEL. CONTRACTOR SHALL FIELD FIT TEMPORARY CULVERTS WITHIN THE ROADSIDE DITCH AND PROVIDE ADEQUATE COVER. COORDINATE WITH CIVIL ENGINEER AS NEEDED.
9. TEMPORARY CULVERT INSTALLATION SHALL CONFORM TO MANUFACTURER RECOMMENDATIONS BASED ON MATERIALS, INSTALLATION METHODS, SIZE, AND ANTICIPATED LOADINGS.
10. CONFIRM TEMPORARY CULVERT END TREATMENTS AND MATERIALS WITH APPROPRIATE JURISDICTION.
11. UPON COMPLETION OF DELIVERIES, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERTS TO BE REMOVED, AND ALL DISTURBED AREAS STABILIZED AND RESTORED TO NATIVE CONDITIONS.
12. CONDITIONS OF EXISTING CULVERTS TO BE FIELD VERIFIED AND MONITORED DURING CONSTRUCTION. COORDINATE WITH APPROPRIATE JURISDICTION IF ANY CULVERT DAMAGE OCCURS AS A RESULT OF CONSTRUCTION ACTIVITIES.
13. REFER TO SHEET C703 FOR THE TEMPORARY AGGREGATE STRUCTURAL SECTION.
14. AUTOTURN MODELING UTILIZED A NORDEX N163 VEHICLE PROVIDED BY INVENERGY.

EROSION AND SEDIMENT CONTROL NOTES:

1. REFER TO THE CONSTRUCTION GENERAL PERMIT (CGP), THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND SHEET C715 FOR ADDITIONAL INFORMATION.
2. BEST MANAGEMENT PRACTICES (BMPS) INCLUDING PERIMETER SEDIMENT CONTROLS (PSC), TEMPORARY AND PERMANENT STABILIZATION OF DISTURBED SOILS, AND CONSTRUCTION PHASING SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP AND WITHIN THE APPLICABLE TIMEFRAMES OUTLINED IN THE CGP.
3. QUALIFIED, TRAINED, AND KNOWLEDGEABLE PERSONNEL SHALL BE PRESENT ON-SITE TO MANAGE THE IMPLEMENTATION OF BMPS, INSPECTIONS, AND COMPLIANCE.
4. SELECT BMP LOCATIONS ARE SHOWN ON THE PLANS. FIELD ADJUSTMENTS, ALTERNATIVES, OR ADDITIONAL BMPS MAY BE IMPLEMENTED TO ALIGN WITH THE CONTRACTOR'S MEANS AND METHODS, FIELD CONDITIONS, INSPECTIONS, AND ACTIVE CONSTRUCTION ACTIVITIES. MULTIPLE APPLICATIONS MAY BE NECESSARY.
5. REFER TO SHEETS C704 - C711 FOR TYPICAL BMP APPLICATIONS INCLUDING:
   - 5.1. PERIMETER SEDIMENT CONTROLS (PSC) ALONG CONSTRUCTION PERIMETER
   - 5.2. SOIL STABILIZATION OF DISTURBED SOIL AREAS
   - 5.3. CHANNEL STABILIZATION OF CONCENTRATED FLOW AREAS

Westwood

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20455 State Highway 249, Suite 400
Houston, TX 77070
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Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELESHIAN
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 50' 100' 150'

Philip Wind Project
Haakon County, South Dakota

Public Improvement 5

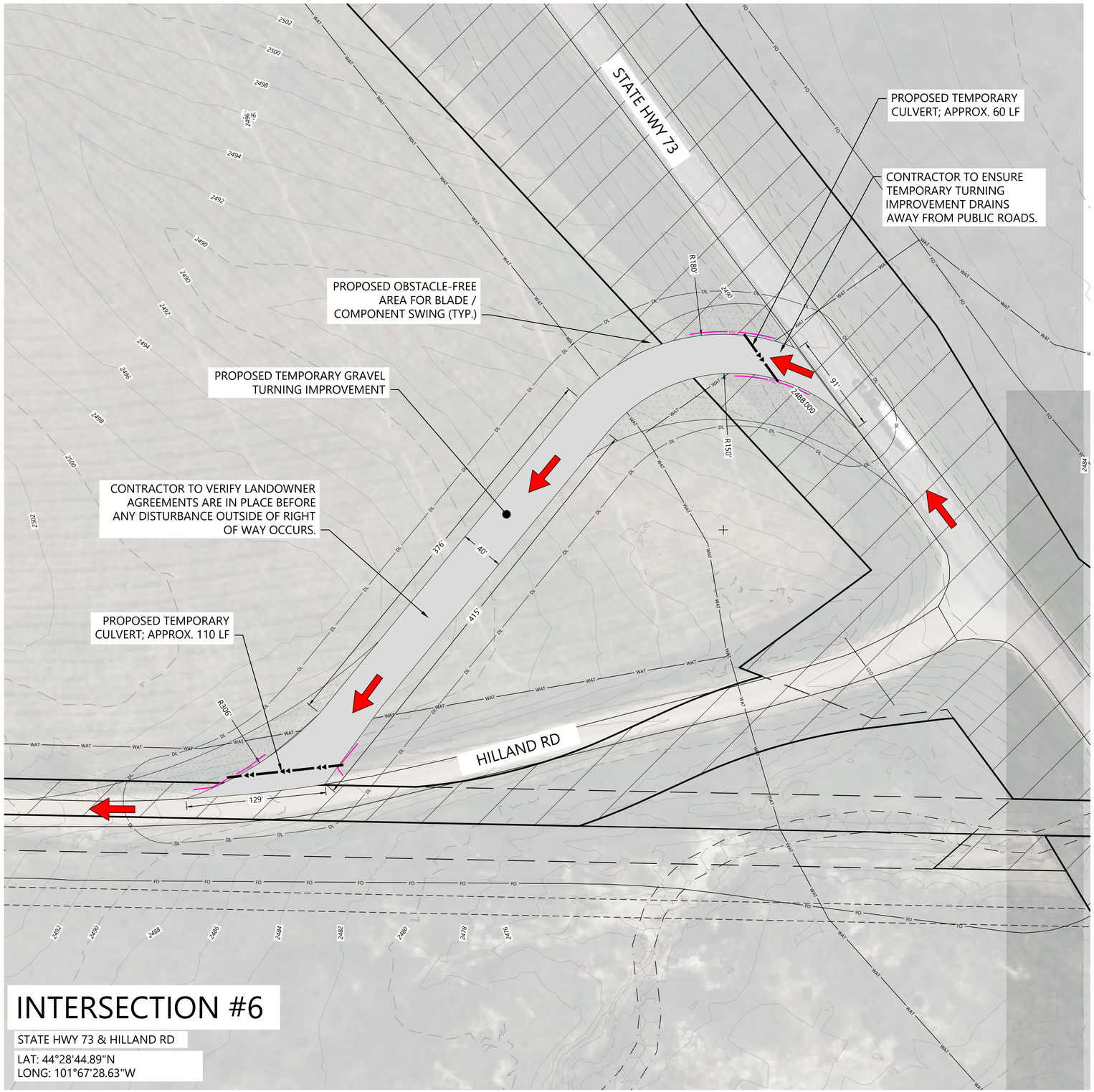
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C505

REV: B

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INTERSECTION #6

STATE HWY 73 & HILLAND RD

LAT: 44°28'44.89"N
LONG: 101°67'28.63"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- FENCE
- OVERHEAD POWER
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- WETLAND (PUBLIC DATA)

PROPOSED:

- TEMPORARY AGGREGATE
- OBSTRUCTION FREE ZONE (CLEAR ZONE)
- UNDERGROUND COLLECTION
- PERIMETER SEDIMENT CONTROL
- DISTURBANCE LIMITS
- DITCH
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4. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VIOLATIONS OF THE OBSTRUCTION FREE ZONE NOT SHOWN ON THE PLANS.
5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND CONTACT ENGINEER IF DESIGN CONFLICTS ARE IDENTIFIED.
6. COORDINATE WITH UTILITY OWNERS PRIOR TO CONSTRUCTION AND REFER TO THE UTILITY CROSSING REQUIREMENTS OR AGREEMENTS, AS APPLICABLE.
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13. REFER TO SHEET C703 FOR THE TEMPORARY AGGREGATE STRUCTURAL SECTION.
14. AUTOTURN MODELING UTILIZED A NORDEX N163 VEHICLE PROVIDED BY INVENERGY.

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REVISIONS:

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A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

0' 50' 100' 150'

Philip Wind Project

Haakon County, South Dakota

Public Improvement 6

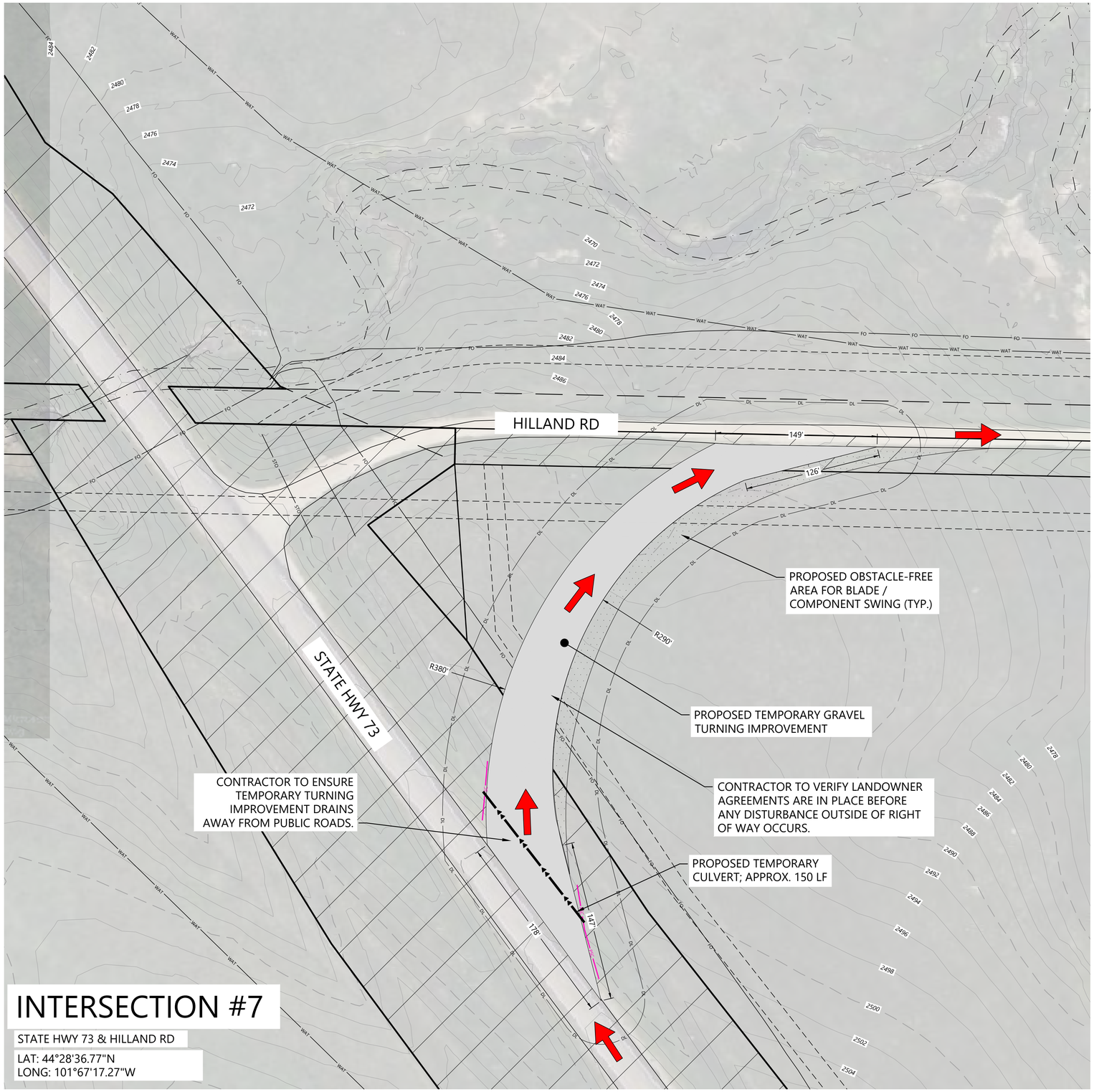
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C506

REV: B

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INTERSECTION #7

STATE HWY 73 & HILLAND RD

LAT: 44°28'36.77"N
LONG: 101°67'17.27"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
- GRAVEL ROAD
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PROPOSED:

- TEMPORARY AGGREGATE
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- UNDERGROUND COLLECTION
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- DITCH
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14. REFER TO SHEET C703 FOR THE TEMPORARY AGGREGATE STRUCTURAL SECTION.
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0' 50' 100' 150'

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Philip Wind Project
Haakon County, South Dakota

Public Improvement 7

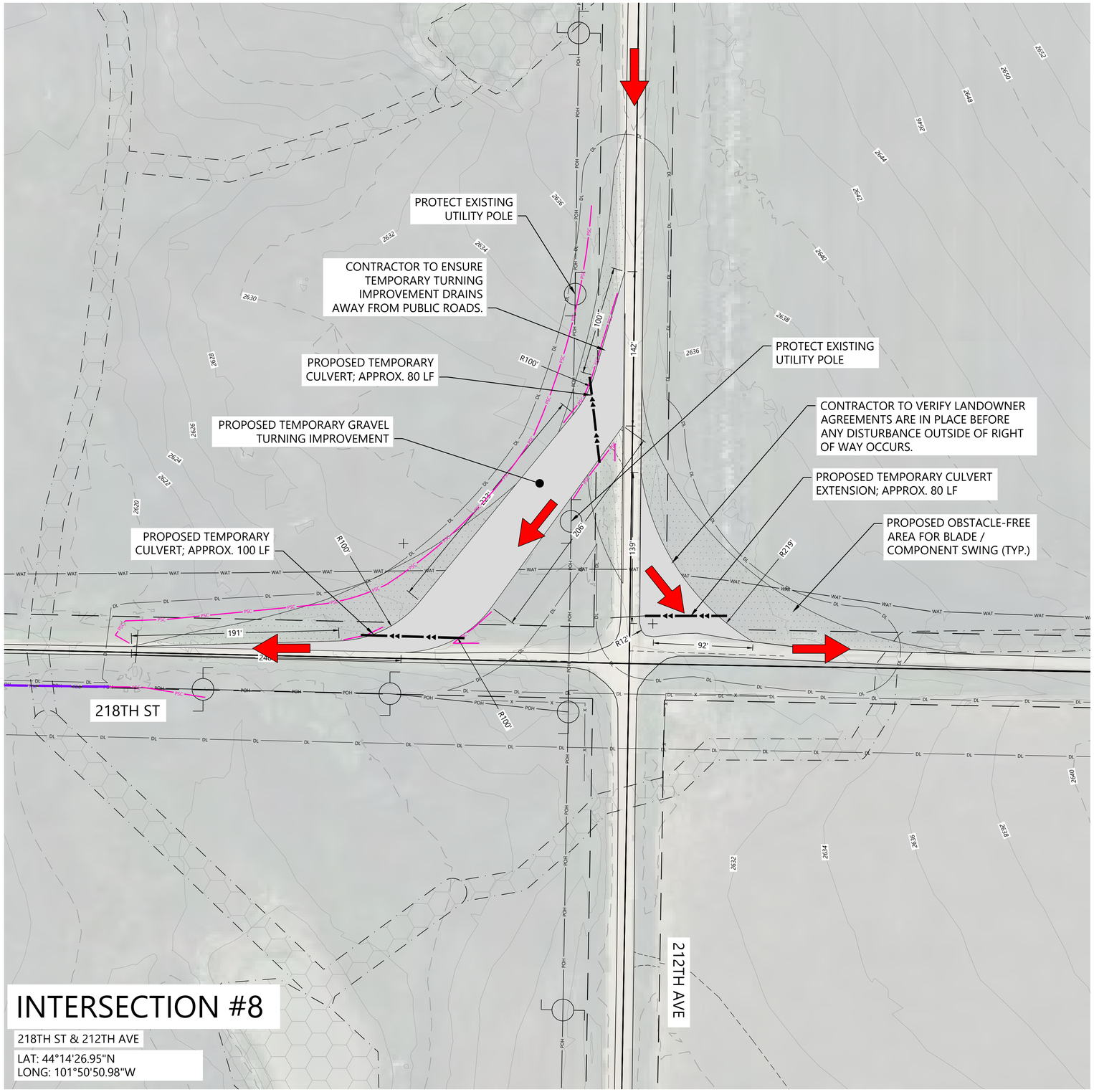
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NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C507

REV: B

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INTERSECTION #8

218TH ST & 212TH AVE

LAT: 44°14'26.95"N
LONG: 101°50'50.98"W

LEGEND:

EXISTING:

- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- PARCEL LINES
- INDEX CONTOUR
- INTERVAL CONTOUR
- PAVED ROAD
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PROPOSED:

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Philip Wind Project
Haakon County, South Dakota

Public Improvement 8 and 9

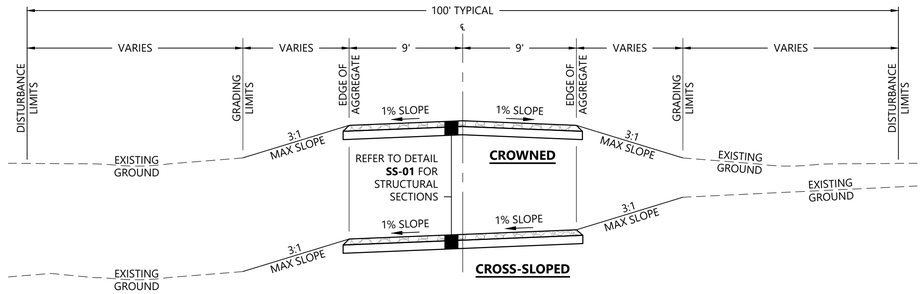
ISSUED FOR PERMIT
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DATE: 05/07/2026

SHEET: C508

REV: B

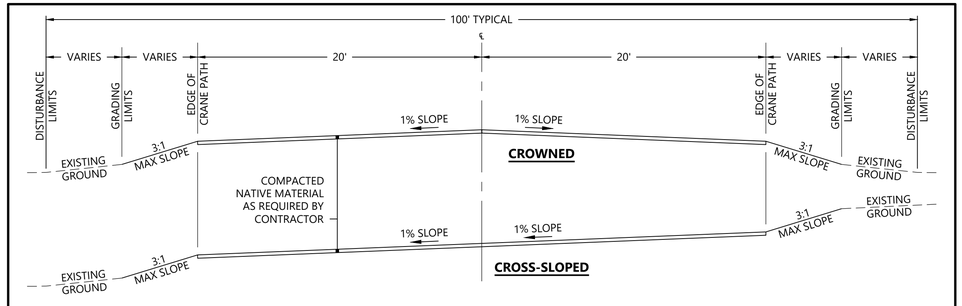
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NOTES:

1. ENSURE THAT ROADS REMAIN WELL-DRAINED.
2. CONSTRUCT CROSS-SLOPE WHERE ROADS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS.
3. SLOPES SHOWN ARE TYPICAL. SOME ROAD LOCATIONS MAY REQUIRE VARIATIONS IN SLOPE.
4. CROWN/CROSS SLOPE IS 1% TYPICAL (2% MAXIMUM).
5. ROADS TO GENERALLY FOLLOW EXISTING CONTOURS, EXCEPT IF GRADES EXCEED TURBINE DELIVERY VEHICLE CAPABILITIES. IF THIS OCCURS, CONTRACTOR MAY PROVIDE ASSIST VEHICLE OR MODIFY GRADE.
6. ALL DISTURBED GROUND NOT COVERED WITH AGGREGATE SHALL BE STABILIZED PER THE NPDES PERMIT.
7. PERMANENT SLOPES IN AGRICULTURAL AREAS MAY REQUIRE REMEDIATION TO MINIMIZE AGRICULTURAL IMPACTS. COORDINATE REQUIREMENTS WITH OWNER.

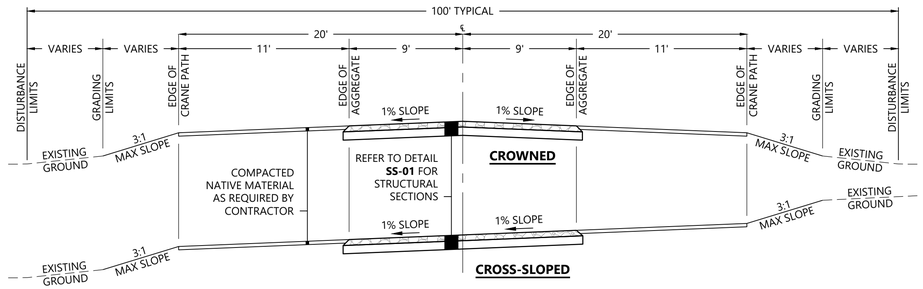
Westwood | TYPICAL ACCESS ROAD | NOT TO SCALE | RD-01



NOTES:

1. ENSURE THAT CRANE PATHS REMAIN WELL-DRAINED.
2. CONSTRUCT CROSS-SLOPE WHERE CRANE PATHS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS.
3. SLOPES SHOWN ARE TYPICAL. SOME LOCATIONS MAY REQUIRE VARIATIONS IN SLOPE.
4. CROWN/CROSS SLOPE IS 1% MAXIMUM FOR CRANE TRAVEL.
5. ALL DISTURBED GROUND SHALL BE STABILIZED PER THE NPDES PERMIT.
6. PERMANENT SLOPES IN AGRICULTURAL AREAS MAY REQUIRE REMEDIATION TO MINIMIZE AGRICULTURAL IMPACTS. COORDINATE REQUIREMENTS WITH OWNER.

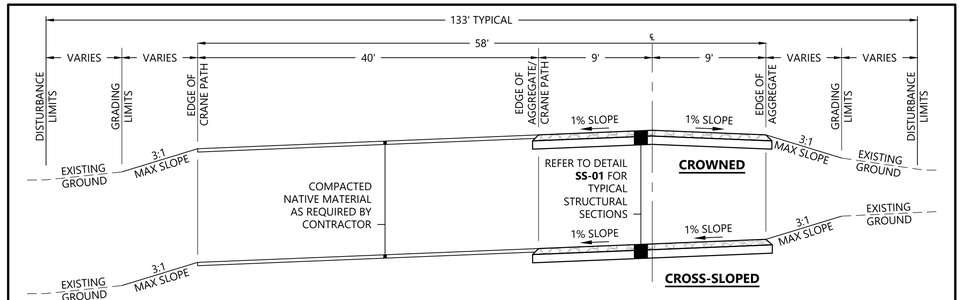
Westwood | TYPICAL CRANE PATH | NOT TO SCALE | RD-02



NOTES:

1. ENSURE THAT ROADS AND SHOULDERS REMAIN WELL-DRAINED.
2. CONSTRUCT CROSS-SLOPE WHERE ROADS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS.
3. SLOPES SHOWN ARE TYPICAL. SOME ROAD LOCATIONS MAY REQUIRE VARIATIONS IN SLOPE.
4. CROWN/CROSS SLOPE IS 1% MAXIMUM FOR CRANE TRAVEL.
5. ROADS TO GENERALLY FOLLOW EXISTING CONTOURS, EXCEPT IF GRADES EXCEED TURBINE DELIVERY VEHICLE CAPABILITIES. IF THIS OCCURS, CONTRACTOR MAY PROVIDE ASSIST VEHICLE OR MODIFY GRADE.
6. ALL DISTURBED GROUND NOT COVERED WITH AGGREGATE SHALL BE STABILIZED PER THE NPDES PERMIT.
7. PERMANENT SLOPES IN AGRICULTURAL AREAS MAY REQUIRE REMEDIATION TO MINIMIZE AGRICULTURAL IMPACTS. COORDINATE REQUIREMENTS WITH OWNER.

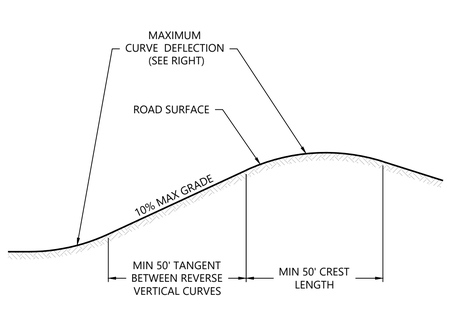
Westwood | TYPICAL ACCESS ROAD AND CRANE PATH | NOT TO SCALE | RD-03

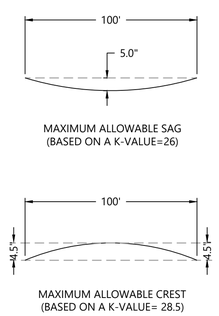


NOTES:

1. ENSURE THAT ROADS AND SHOULDERS REMAIN WELL-DRAINED.
2. CONSTRUCT CROSS-SLOPE WHERE ROADS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS.
3. SLOPES SHOWN ARE TYPICAL. SOME ROAD LOCATIONS MAY REQUIRE VARIATIONS IN SLOPE.
4. CROWN/CROSS SLOPE IS 1% MAXIMUM FOR CRANE TRAVEL.
5. ROADS TO GENERALLY FOLLOW EXISTING CONTOURS, EXCEPT IF GRADES EXCEED TURBINE DELIVERY VEHICLE CAPABILITIES. IF THIS OCCURS, CONTRACTOR MAY PROVIDE ASSIST VEHICLE OR MODIFY GRADE.
6. ALL DISTURBED GROUND NOT COVERED WITH AGGREGATE SHALL BE STABILIZED PER THE NPDES PERMIT.
7. PERMANENT SLOPES IN AGRICULTURAL AREAS MAY REQUIRE REMEDIATION TO MINIMIZE AGRICULTURAL IMPACTS. COORDINATE REQUIREMENTS WITH OWNER.

Westwood | TYPICAL ACCESS ROAD AND OFFSET CRANE PATH | NOT TO SCALE | RD-04

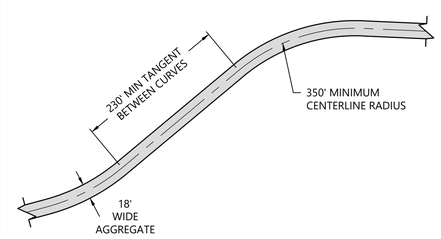




NOTES:

1. THESE REQUIREMENTS APPLY TO THE TURBINE COMPONENT DELIVERY ROUTE (INCLUDING PUBLIC AND PRIVATE ROADS WHERE APPLICABLE).
2. LOCALIZED ANOMALIES IN THE ROAD SURFACE THAT ARE ENCOUNTERED OR CREATED DURING CONSTRUCTION SHALL MEET THE DEFLECTION REQUIREMENTS.
3. ROAD GRADE SHALL NOT EXCEED THE MAXIMUM WITHOUT OWNER APPROVAL AND ASSIST VEHICLES MAY BE REQUIRED.

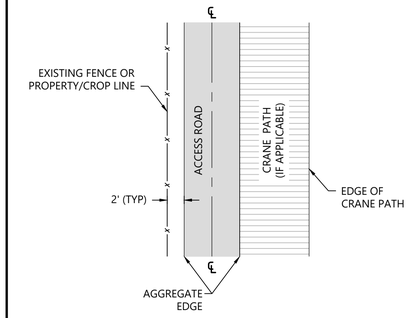
Westwood | TURBINE DELIVERY ROADS - VERTICAL REQUIREMENTS | NOT TO SCALE | RD-10



NOTES:

1. ACCESS ROADS SHOWN ON PLAN SHEETS REPRESENT PERMANENT AGGREGATE, UNLESS OTHERWISE NOTED.
2. SOME RADII MAY REQUIRE ADDITIONAL SOIL COMPACTION OR AGGREGATE BEYOND THE WIDTH SHOWN ABOVE TO ACCOMMODATE TRACTORS OR TRAILERS TRACKING OFF THE ACCESS ROAD DURING DELIVERY OF COMPONENTS. CONTRACTOR TO VERIFY WITH TURBINE TRANSPORTATION SUPPLIER.
3. THE PERMANENT RADIUS MAY BE LESS THAN THE SPECIFIED MINIMUM WHERE TEMPORARY AGGREGATE WIDENING IS UTILIZED. VERIFY WITH THE CIVIL ENGINEER.

Westwood | TURBINE DELIVERY ROADS - HORIZONTAL REQUIREMENTS | NOT TO SCALE | RD-11



NOTES:

1. CRANE PATH SHALL BE DECOMPACTED AND STABILIZED AS DESCRIBED IN THE NPDES PERMIT FOLLOWING CRANE ACTIVITIES.
2. THE ACCESS ROAD MAY NEED TO BE CONSTRUCTED FARTHER FROM THE PROPERTY LINE IF OBSTRUCTIONS SUCH AS TREES FOLLOW THE PROPERTY LINE, OR IF CULVERT EMBANKMENTS WOULD OTHERWISE ENCROACH ACROSS THE PROPERTY LINE.

Westwood | TURBINE ACCESS ROAD ALONG FENCE/PROPERTY/CROP LINE | NOT TO SCALE | RD-12

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PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELEHER SOUTH DAKOTA 06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

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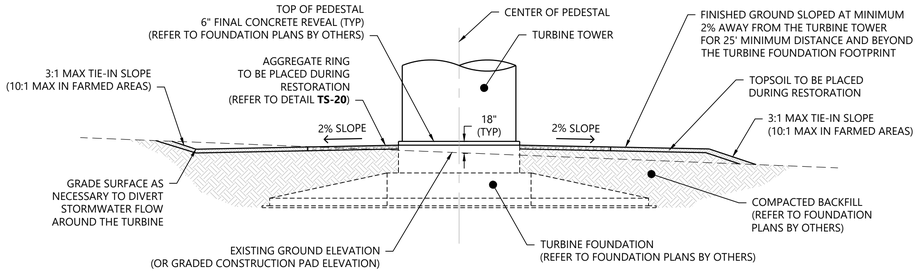
Philip Wind Project
Haakon County, South Dakota

Construction Details

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DATE: 05/07/2026
SHEET: C700
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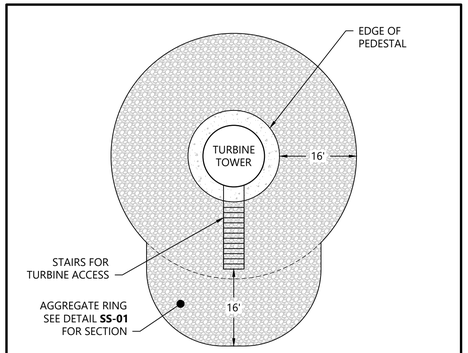


PROFILE VIEW

NOTES:

1. SET THE TOP OF FOUNDATION PEDESTAL ELEVATION, AT CENTER OF FOUNDATION, 18" (TYPICAL) ABOVE EXISTING GROUND ELEVATION OR GRADED CONSTRUCTION PAD ELEVATION. ADJUST 18" DIMENSION AS NEEDED TO (a) MAINTAIN MINIMUM 25' DIMENSION FINISHED GRADE AT 2% SLOPE, (b) ACCOMMODATE STEEPER CROSS SLOPES OF GRADED PAD ELEVATION, AND (c) BALANCE EARTHWORK AT TURBINE PAD.
2. GRADE FINAL GROUND SURFACE AROUND THE BASE OF THE TURBINE TO A MINIMUM 2% SLOPE FOR 25' MINIMUM DISTANCE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE TURBINE. ENSURE THE POSITIVE DRAINAGE EXTENDS BEYOND THE TURBINE FOUNDATION FOOTPRINT.
3. VERIFY GEOTECHNICAL AND STRUCTURAL PLAN REQUIREMENTS PRIOR TO EXCAVATING TURBINE FOUNDATION.

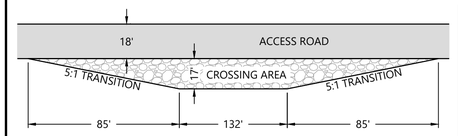
Westwood	FINAL GRADED PAD - PROFILE	TS-01
	NOT TO SCALE	



NOTES:

1. STEP AND TOUCH REQUIREMENTS TO BE CONFIRMED BY ELECTRICAL ENGINEER.
2. COORDINATE WITH PROJECT DEVELOPER FOR ORIENTATION OF STAIRS.

Westwood	TURBINE AGGREGATE RING LAYOUT	TS-20
	NOT TO SCALE	

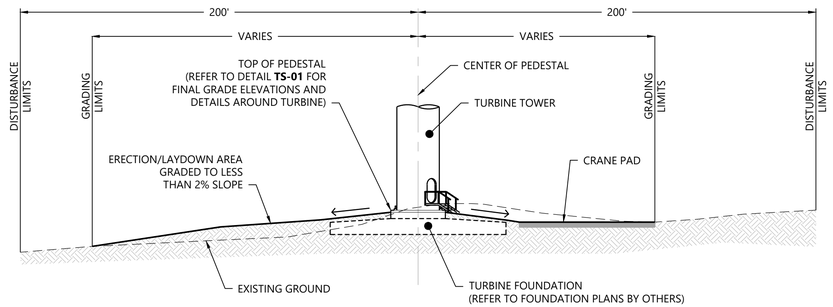


PLAN VIEW

NOTES:

1. CROSSING AREAS MAY BE INSTALLED AT THE CONTRACTOR'S DISCRETION OR MAY BE REQUIRED BY THE TURBINE MANUFACTURER AND/OR DELIVERY COMPANY.
2. DIMENSIONS SHOWN ARE THE MINIMUMS. INCREASE DIMENSIONS AS FIELD CONDITIONS WARRANT.
3. CROSSING AREA WILL BE SPACED 3KM (1.86 MI) ON PROPOSED ACCESS ROADS THROUGH CONSULTATION WITH THE TURBINE MANUFACTURER AND/OR DELIVERY COMPANY.
4. CROSSING AREA CROSS-SLOPE SHALL MATCH ADJACENT ROAD CROSS-SLOPE AND FREELY DRAIN.
5. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES, AS WELL AS STABILIZE AND RESTORE ANY DISTURBED AREAS, IN ACCORDANCE WITH THE NPDES PERMIT.
6. REMOVE CROSSING AREAS DURING PROJECT RESTORATION, UNLESS DIRECTED OTHERWISE BY THE OWNER.

Westwood	CROSSING AREAS	RD-30
	NOT TO SCALE	

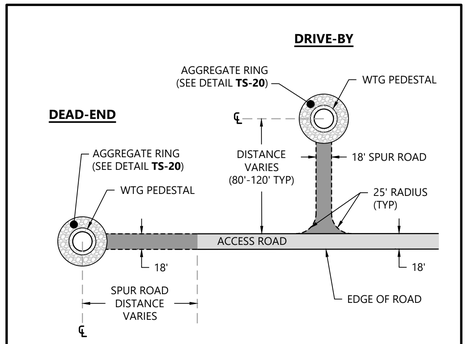


PROFILE VIEW

NOTE:

CONFIRM CRANE PAD REQUIREMENTS WITH CRANE OPERATOR; TYPICALLY WITHIN 1" FLATNESS AND WITHIN 1' OF THE FOUNDATION PEDESTAL ELEVATION. TEMPORARY CRANE MATS MAY BE REQUIRED. REFER TO THE GEOTECHNICAL REPORT, PROJECT SPECIFIC CRANE WALK/PAD STRUCTURAL DESIGN (IF AVAILABLE), GEOTECHNICAL ENGINEER, AND/OR CONTRACTOR FOR SPECIFIC INFORMATION.

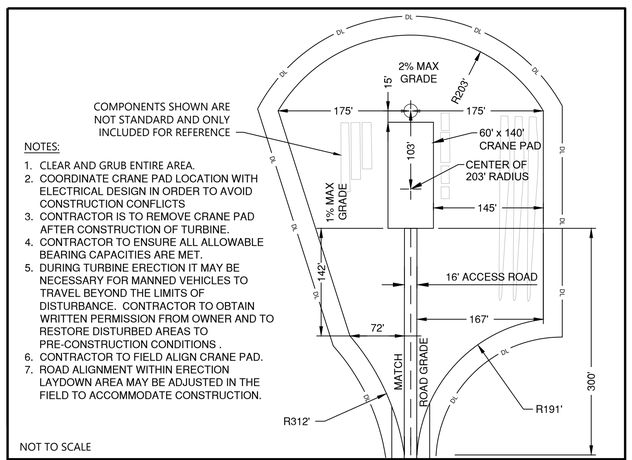
Westwood	TYPICAL TURBINE SITE - PROFILE VIEW	TS-02
	NOT TO SCALE	



NOTES:

1. REFER TO DETAIL **SS-01** FOR ROAD STRUCTURAL SECTIONS.
2. SPUR ROAD TYPICALLY INSTALLED DURING RESTORATION OF THE PROJECT.

Westwood	PERMANENT SPUR ROAD GEOMETRY	TS-23
	NOT TO SCALE	

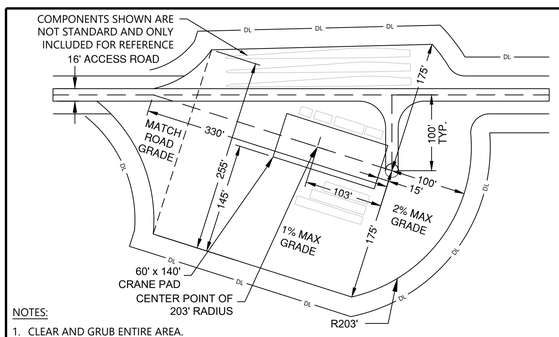


NOTES:

1. CLEAR AND GRUB ENTIRE AREA.
2. COORDINATE CRANE PAD LOCATION WITH ELECTRICAL DESIGN IN ORDER TO AVOID CONSTRUCTION CONFLICTS
3. CONTRACTOR IS TO REMOVE CRANE PAD AFTER CONSTRUCTION OF TURBINE.
4. CONTRACTOR TO ENSURE ALL ALLOWABLE BEARING CAPACITIES ARE MET.
5. DURING TURBINE ERECTION IT MAY BE NECESSARY FOR MANNED VEHICLES TO TRAVEL BEYOND THE LIMITS OF DISTURBANCE. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM OWNER AND TO RESTORE DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS .
6. CONTRACTOR TO FIELD ALIGN CRANE PAD.
7. ROAD ALIGNMENT WITHIN ERECTION LAYDOWN AREA MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE CONSTRUCTION.

NOT TO SCALE

Westwood	TYPICAL CRANE PAD/ERECTION LAYDOWN AREA (DEAD-END)	TS-03

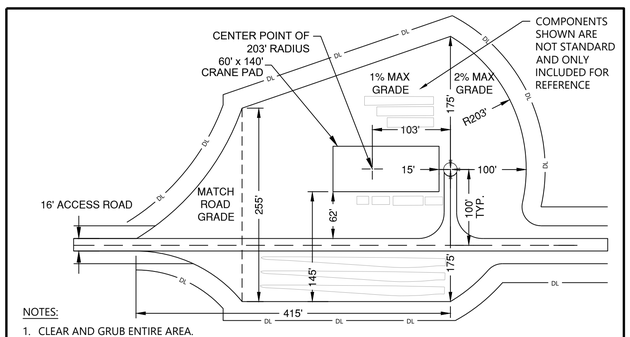


NOTES:

1. CLEAR AND GRUB ENTIRE AREA.
2. COORDINATE CRANE PAD LOCATION WITH ELECTRICAL DESIGN IN ORDER TO AVOID CONSTRUCTION CONFLICTS
3. CONTRACTOR IS TO REMOVE CRANE PAD AFTER CONSTRUCTION OF TURBINE.
4. CONTRACTOR TO ENSURE ALL ALLOWABLE BEARING CAPACITIES ARE MET.
5. DURING TURBINE ERECTION IT MAY BE NECESSARY FOR MANNED VEHICLES TO TRAVEL BEYOND THE LIMITS OF DISTURBANCE. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM OWNER AND TO RESTORE DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS .
6. CONTRACTOR TO FIELD ALIGN CRANE PAD.
7. ROAD ALIGNMENT WITHIN ERECTION LAYDOWN AREA MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE CONSTRUCTION.

NOT TO SCALE

Westwood	TYPICAL CRANE PAD/ERECTION LAYDOWN AREA (DRIVE-BY RIGHT)	TS-04



NOTES:

1. CLEAR AND GRUB ENTIRE AREA.
2. COORDINATE CRANE PAD LOCATION WITH ELECTRICAL DESIGN IN ORDER TO AVOID CONSTRUCTION CONFLICTS
3. CONTRACTOR IS TO REMOVE CRANE PAD AFTER CONSTRUCTION OF TURBINE.
4. CONTRACTOR TO ENSURE ALL ALLOWABLE BEARING CAPACITIES ARE MET.
5. DURING TURBINE ERECTION IT MAY BE NECESSARY FOR MANNED VEHICLES TO TRAVEL BEYOND THE LIMITS OF DISTURBANCE. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM OWNER AND TO RESTORE DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS .
6. CONTRACTOR TO FIELD ALIGN CRANE PAD.
7. ROAD ALIGNMENT WITHIN ERECTION LAYDOWN AREA MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE CONSTRUCTION.

NOT TO SCALE

Westwood	TYPICAL CRANE PAD/ERECTION LAYDOWN AREA (DRIVE-BY LEFT)	TS-05

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REG. NO.
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DAVID
KELFORD
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

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B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

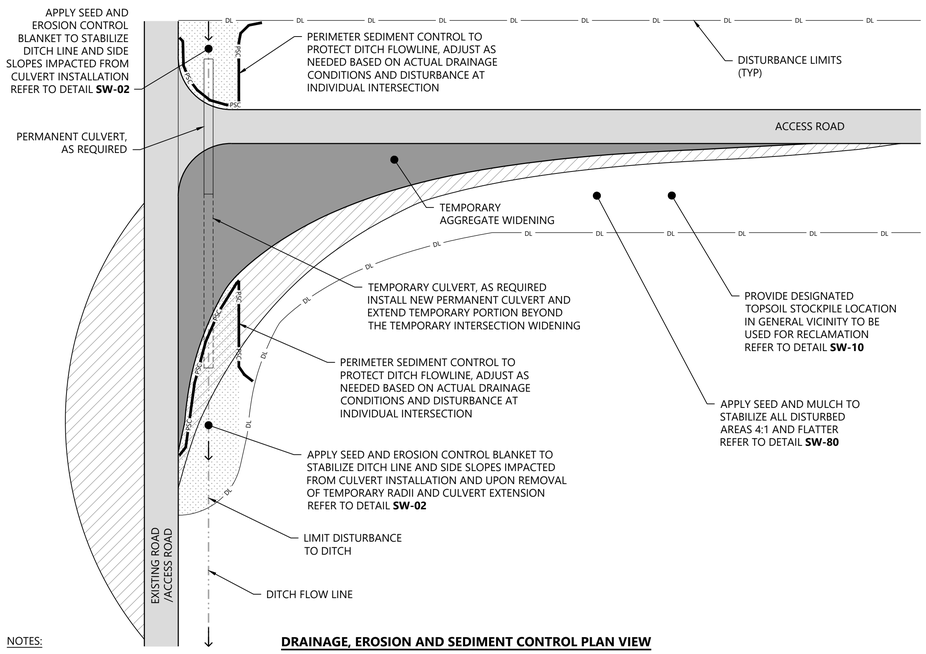
Philip Wind Project
Haakon County, South Dakota

Construction Details

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DATE: 05/07/2026
SHEET: C701
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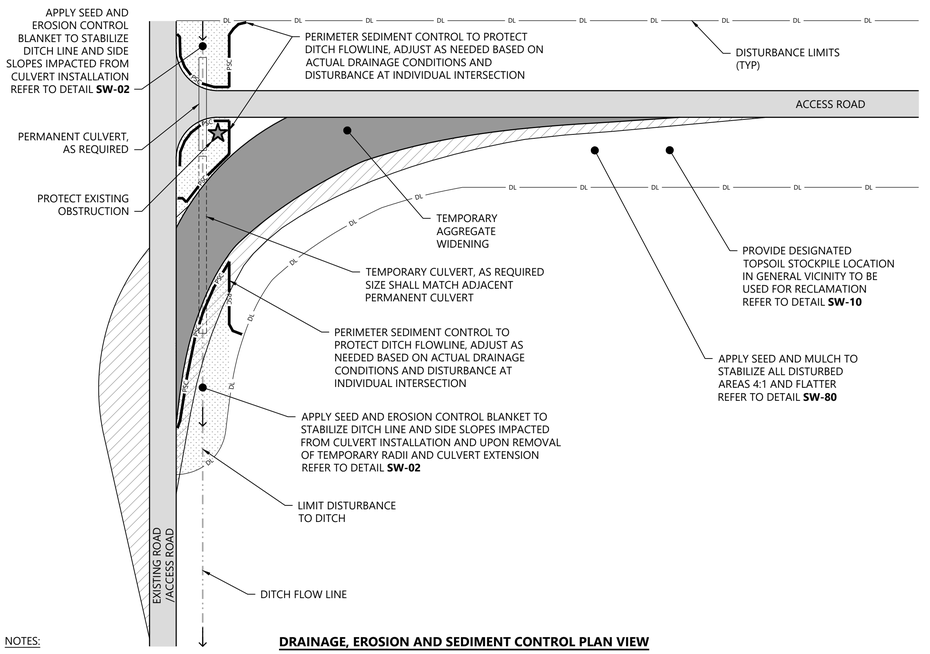


NOTES:

DRAINAGE, EROSION AND SEDIMENT CONTROL PLAN VIEW

1. PRELIMINARY DIMENSIONS PROVIDED, SEE "Delta4000_All WTGs_Transport-Access Roads and Crane Guidelines_DG200853_22.PDF. " DOCUMENT FOR TURNING SPECIFICATIONS; DESIGN CONFIRMED IN AUTOTURN
2. UPON COMPLETION OF DELIVERIES, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERT TO BE REMOVED AND ALL DISTURBED AREAS RESTORED TO NATIVE CONDITIONS.
3. CULVERTS AND PERIMETER SEDIMENT CONTROL SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING DITCH. REFER TO NPDES PERMIT FOR ADDITIONAL INFORMATION. SHOWN FOR REFERENCE, FIELD CONDITIONS MAY VARY.
4. DIMENSIONS SHOWN ASSUME A 90° INTERSECTION.
5. FILL PLACEMENT FOR TEMPORARY TURNS SHALL FOLLOW TESTING REQUIREMENTS FOR FILL PLACEMENT.
6. REFER TO LOCAL JURISDICTION REQUIREMENTS FOR CULVERT END TREATMENTS ALONG PUBLIC ROADS.
7. EXISTING DITCH FLOW LINE, IF PRESENT, SHALL BE RE-ESTABLISHED AND STABILIZED FOLLOWING CULVERT INSTALLATION.

Westwood | INTERSECTION WIDENING - INTERIOR RADIUS | NOT TO SCALE | RD-21



NOTES:

DRAINAGE, EROSION AND SEDIMENT CONTROL PLAN VIEW

1. PRELIMINARY DIMENSIONS PROVIDED, SEE "Delta4000_All WTGs_Transport-Access Roads and Crane Guidelines_DG200853_22.PDF" DOCUMENT FOR TURNING SPECIFICATIONS; DESIGN CONFIRMED IN AUTOTURN
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3. CULVERTS AND PERIMETER SEDIMENT CONTROL SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING DITCH. REFER TO NPDES PERMIT FOR ADDITIONAL INFORMATION. SHOWN FOR REFERENCE, FIELD CONDITIONS MAY VARY.
4. FIELD FIT TRUCK TURNING LANE BASED ON ACTUAL CONDITIONS TO ENSURE AN ADEQUATE OBSTACLE FREE ZONE.
5. FILL PLACEMENT FOR TEMPORARY TURNS SHALL FOLLOW TESTING REQUIREMENTS FOR FILL PLACEMENT.
6. REFER TO LOCAL JURISDICTION REQUIREMENTS FOR CULVERT END TREATMENTS ALONG PUBLIC ROADS.
7. EXISTING DITCH FLOW LINE, IF PRESENT, SHALL BE RE-ESTABLISHED AND STABILIZED FOLLOWING CULVERT INSTALLATION.

Westwood | INTERSECTION WIDENING - CUT THROUGH RADIUS | NOT TO SCALE | RD-22

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Philip Wind Project

Haakon County, South Dakota

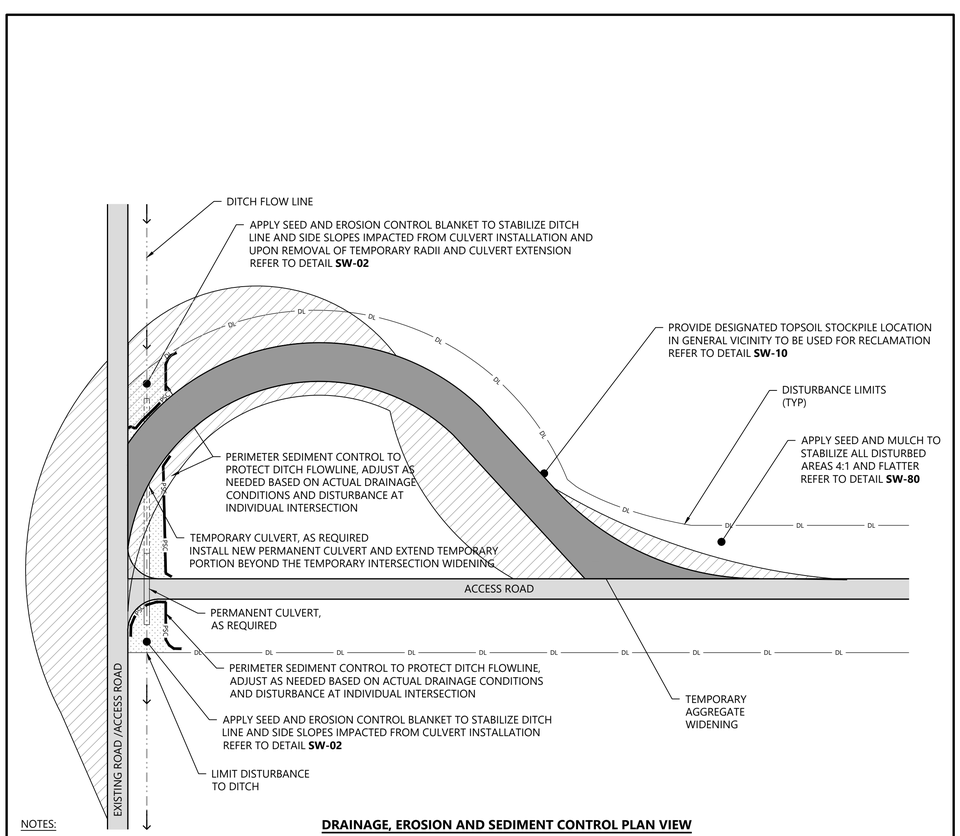
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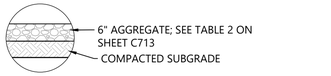


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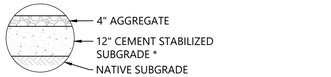
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3. CULVERTS AND PERIMETER SEDIMENT CONTROL SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING DITCH. REFER TO NPDES PERMIT FOR ADDITIONAL INFORMATION, SHOWN FOR REFERENCE, FIELD CONDITIONS MAY VARY.
4. FIELD FIT TRUCK TURNING LANE BASED ON ACTUAL CONDITIONS TO ENSURE AN ADEQUATE OBSTACLE FREE ZONE.
5. FILL PLACEMENT FOR TEMPORARY TURNS SHALL FOLLOW TESTING REQUIREMENTS FOR FILL PLACEMENT.
6. REFER TO LOCAL JURISDICTION REQUIREMENTS FOR CULVERT END TREATMENTS ALONG PUBLIC ROADS.
7. EXISTING DITCH FLOW LINE, IF PRESENT, SHALL BE RE-ESTABLISHED AND STABILIZED FOLLOWING CULVERT INSTALLATION.

DRAINAGE, EROSION AND SEDIMENT CONTROL PLAN VIEW

Westwood	INTERSECTION WIDENING - JUG HANDLE RADIUS (NOT TO SCALE)	RD-23

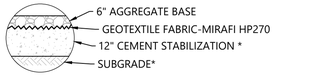


TEMPORARY AGGREGATE AND AGGREGATE RING SECTION



* CEMENT APPLICATION RATE MAY VARY BASED ON TEST STRIPS AND FIELD PERFORMANCE. REFER TO CEMENT STABILIZATION SPECIFICATION.

CEMENT STABILIZED ACCESS ROAD SECTION



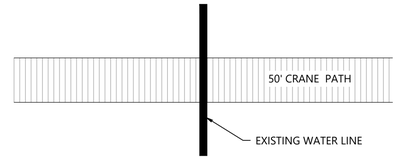
* CEMENT APPLICATION RATE MAY VARY BASED ON FIELD CONDITIONS.

ENHANCED ACCESS ROAD SECTION

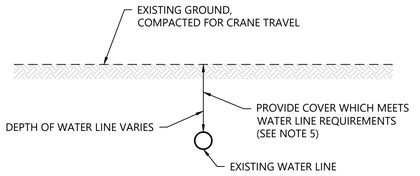
NOTES:

1. REFER TO CONSTRUCTION SPECIFICATIONS, AGGREGATE REQUIREMENTS, AND TESTING REQUIREMENTS.
2. STRUCTURAL SECTIONS SHOWN ARE THE MINIMUM THICKNESS DURING NORMAL FIELD CONDITIONS. THE SECTIONS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION DURING UNUSUALLY WET PERIODS, IN LOW/WET AREAS OR SOFT SOILS.

Westwood	STRUCTURAL CROSS SECTIONS (NOT TO SCALE)	SS-01



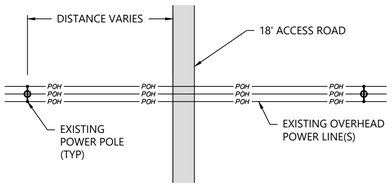
PLAN VIEW



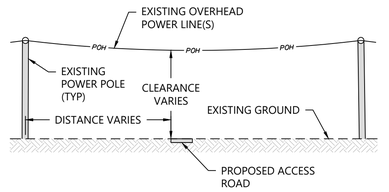
NOTES:

1. EACH CROSSING MUST BE APPROVED BY THE WATER LINE OWNER PRIOR TO CROSSING ON A CASE-BY-CASE BASIS. REFER TO THE UTILITY CROSSING AGREEMENT.
2. CONTRACTOR SHALL NOTIFY WATER LINE OWNER PRIOR TO CONSTRUCTION ACTIVITIES.
3. PRIOR TO ANY DIGGING, CONTRACTOR SHALL CONTACT THE STATE ONE-CALL SYSTEM AT 811.
4. CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL.
5. MATTING OR EARTHEN COVER MAY BE NEEDED TO ACHIEVE NECESSARY SUPPORT FOR CROSSINGS. THIS WILL BE AGREED UPON BY THE CONTRACTOR AND WATER LINE OWNER ON A CASE-BY-CASE BASIS.

Westwood	CRANE CROSSING OF EXISTING WATER LINE (NOT TO SCALE)	UT-11



PLAN VIEW



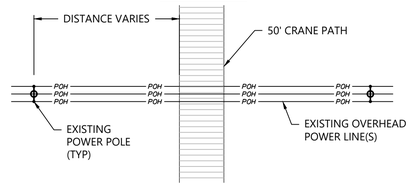
PROFILE VIEW

NOTES:

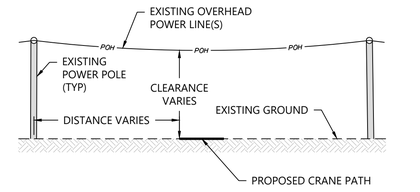
1. EACH CROSSING MUST BE APPROVED BY THE OVERHEAD POWER OWNER PRIOR TO CROSSING ON A CASE-BY-CASE BASIS. REFER TO THE UTILITY CROSSING AGREEMENT.
2. CONTRACTOR SHALL NOTIFY OVERHEAD POWER OWNER PRIOR TO CONSTRUCTION ACTIVITIES.
3. CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL.
4. DISTURBED GROUND NOT COVERED BY GRAVEL WILL BE RESTORED TO EXISTING CONDITIONS.
5. IN SOME CASES, PROPOSED ACCESS ROAD ELEVATION MAY VARY FROM EXISTING GROUND ELEVATION.
6. MAINTAIN OSHA AND OTHER APPLICABLE CLEARANCES/PROTOCOL.

Westwood	ACCESS ROAD CROSSING OF EXISTING OVERHEAD POWER (NOT TO SCALE)	UT-04

PROFILE VIEW



PLAN VIEW



PROFILE VIEW

NOTES:

1. EACH CROSSING MUST BE APPROVED BY THE OVERHEAD POWER OWNER PRIOR TO CROSSING ON A CASE-BY-CASE BASIS. REFER TO THE UTILITY CROSSING AGREEMENT.
2. CONTRACTOR SHALL NOTIFY OVERHEAD POWER OWNER PRIOR TO CONSTRUCTION ACTIVITIES.
3. CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL.
4. DISTURBED GROUND WILL BE RESTORED TO EXISTING CONDITIONS.
5. IN SOME CASES, PROPOSED CRANE PATH ELEVATION MAY VARY FROM EXISTING GROUND ELEVATION.
6. MAINTAIN OSHA AND OTHER APPLICABLE CLEARANCES/PROTOCOL.

Westwood	CRANE CROSSING OF EXISTING OVERHEAD POWER (NOT TO SCALE)	UT-13

Westwood
Phone (281) 883-0103 — Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER — REG. NO. 17360 — DAVID KELESHIAN — SOUTH DAKOTA — 06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

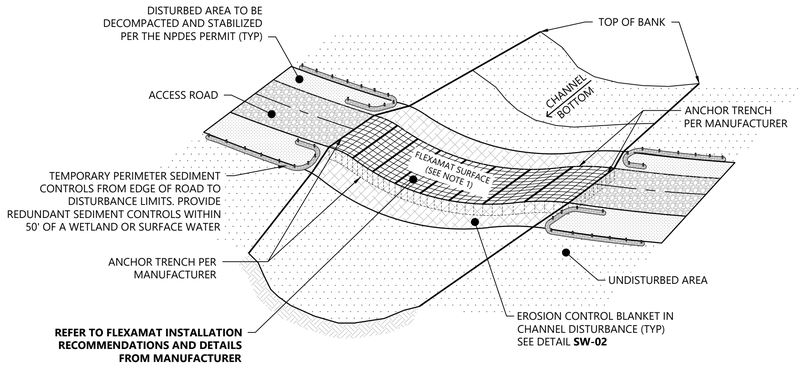
Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C703
REV: B

South Dakota 811 — Know what's below. Call before you dig.

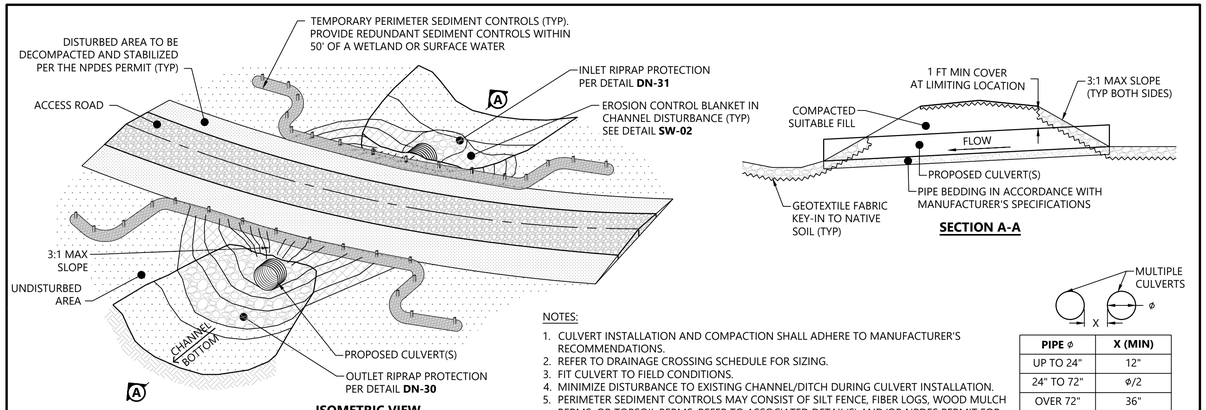
\\westwoodps.local\Global Projects\00155\A\05_CAD_Civil\00155A05_07.dwg, 5/7/2026 2:41 PM Marlon Rodriguez Chavez



NOTES:

1. **THE ARMORED ROAD SURFACE SHALL BE INSTALLED IN ACCORDANCE WITH THE FLEXAMAT MANUFACTURER'S RECOMMENDATIONS AND DETAILS.**
2. **CONTRACTOR SHALL COORDINATE WITH A FLEXAMAT REPRESENTATIVE TO OBSERVE AND APPROVE THE ON-SITE INSTALLATION OF FLEXAMAT PRODUCTS.**
3. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS ROAD THROUGH THE CHANNEL TO MEET THE REQUIREMENTS OF CONSTRUCTION AND DELIVERY VEHICLES.
4. THE ACCESS ROAD SHALL CROSS THE CHANNEL AS CLOSE TO PERPENDICULAR AS POSSIBLE.
5. THE FINISHED ACCESS ROAD SURFACE SHALL BE AT AN ELEVATION THAT ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF ROAD OR ON THE ROAD SURFACE.
6. ARMORED SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL, UNLESS OTHERWISE NOTED.
7. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.
8. STABILIZE DISTURBED GROUND IN ACCORDANCE WITH THE NPDES PERMIT.

Westwood	LOW WATER CROSSING - FLEXAMAT SURFACE	NOT TO SCALE	DN-11



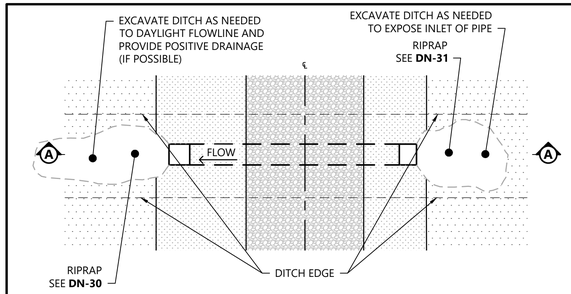
NOTES:

1. CULVERT INSTALLATION AND COMPACTION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAINAGE CROSSING SCHEDULE FOR SIZING.
3. FIT CULVERT TO FIELD CONDITIONS.
4. MINIMIZE DISTURBANCE TO EXISTING CHANNEL/DITCH DURING CULVERT INSTALLATION.
5. PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO ASSOCIATED DETAIL(S) AND/OR NPDES PERMIT FOR ADDITIONAL DETAILS.

PIPE ϕ	X (MIN)
UP TO 24"	12"
24" TO 72"	ϕ/2
OVER 72"	36"

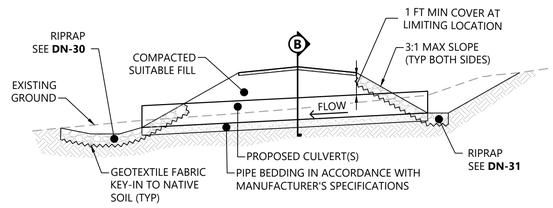
MULTI-PIPE SPACING

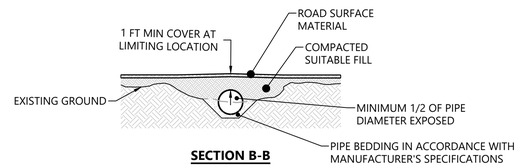
Westwood	CULVERT CROSSING	NOT TO SCALE	DN-03



NOTES:

1. CULVERT INSTALLATION AND COMPACTION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAINAGE CROSSING SCHEDULE FOR SIZING.
3. FIT CULVERT TO FIELD CONDITIONS. CONTRACTOR TO GRADE OUTLET OF CULVERTS TO FREELY DRAIN IF POSSIBLE.
4. MINIMIZE DISTURBANCE TO EXISTING CHANNEL/DITCH DURING CULVERT INSTALLATION.
5. PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO ASSOCIATED DETAIL(S) AND/OR NPDES PERMIT FOR ADDITIONAL DETAILS. SEE DETAIL **DN-03** FOR PLACEMENT AND ADDITIONAL INFORMATION.
6. IF MINIMUM 1' COVER IS NOT FEASIBLE, AN ALTERNATIVE PIPE SUCH AS STEEL MAY BE REQUIRED TO SUPPORT TRAFFIC.





Westwood	SUMPED CULVERT	NOT TO SCALE	DN-04

Westwood

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Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELEHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project

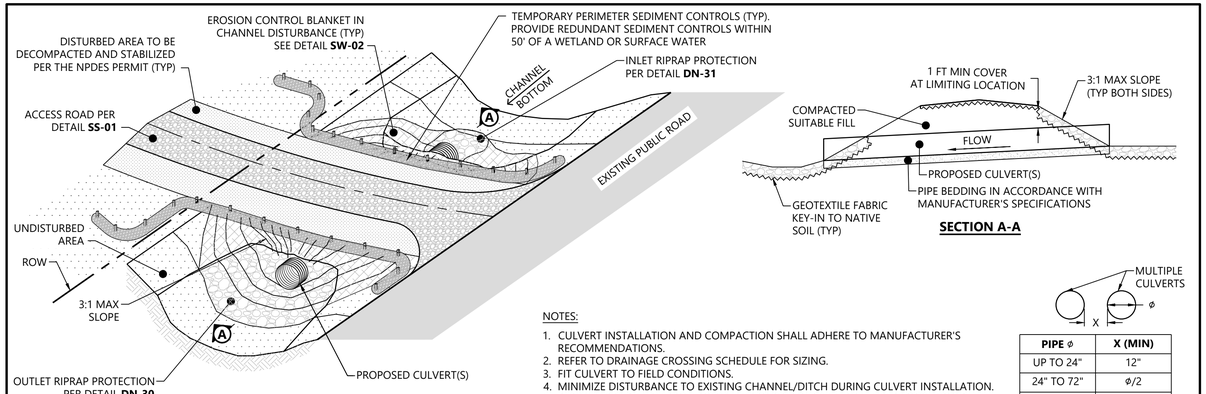
Haakon County, South Dakota

Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C704
REV: B

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ISOMETRIC VIEW

SECTION A-A

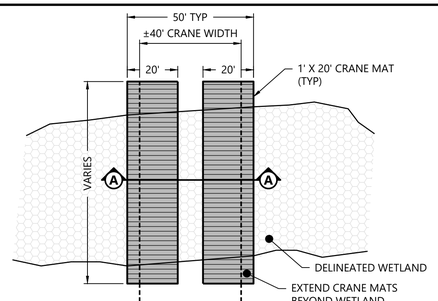
NOTES:

1. CULVERT INSTALLATION AND COMPACTION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAINAGE CROSSING SCHEDULE FOR SIZING.
3. FIT CULVERT TO FIELD CONDITIONS.
4. MINIMIZE DISTURBANCE TO EXISTING CHANNEL/DITCH DURING CULVERT INSTALLATION.
5. PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO ASSOCIATED DETAIL(S) AND/OR NPDES PERMIT FOR ADDITIONAL DETAILS.

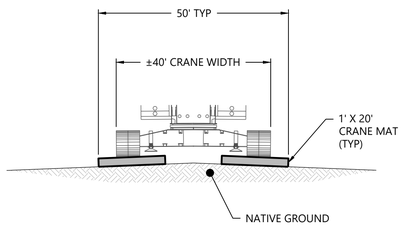
PIPE ϕ	X (MIN)
UP TO 24"	12"
24" TO 72"	ϕ/2
OVER 72"	36"

MULTI-PIPE SPACING

Westwood	PUBLIC ROW ACCESS ENTRANCE - PERMANENT CONDITION - CULVERT	NOT TO SCALE	DN-06



PLAN VIEW

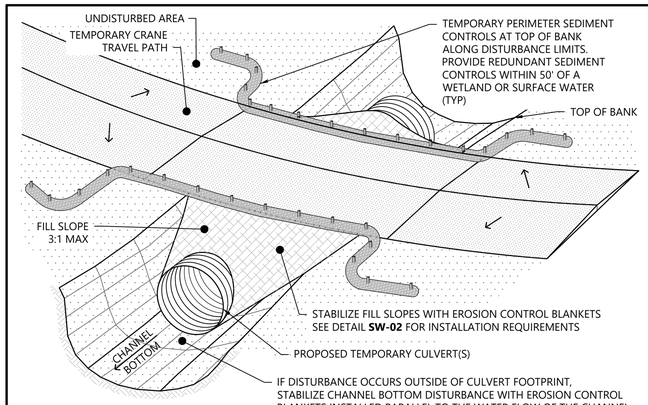


SECTION A-A

NOTES:

1. STRUCTURAL DESIGN, SUBGRADE RECOMMENDATIONS, AND TESTING FOR CRANE WALKS AND CRANE PADS IS NOT INCLUDED. REFER TO THE GEOTECHNICAL REPORT, PROJECT SPECIFIC CRANE WALK/PAD STRUCTURAL DESIGN (IF AVAILABLE), GEOTECHNICAL ENGINEER, AND/OR CONTRACTOR FOR SPECIFIC INFORMATION.
2. SUBGRADE IMPROVEMENT AND COMPACTION MAY BE REQUIRED TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR CRANE TRAVEL.
3. REVIEW ALL ENVIRONMENTAL PERMITS PRIOR TO CROSSING DRAINAGE SWALE TO ENSURE CONFORMANCE WITH PERMIT REQUIREMENTS.
4. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE NPDES PERMIT. STABILIZE AND RESTORE ANY DISTURBED AREA IN ACCORDANCE WITH THE NPDES PERMIT AND ENVIRONMENTAL PERMIT REQUIREMENTS POST CRANE CROSSING.
5. TOTAL CRANE MATTING WIDTH VARIES BY CONTRACTOR AND EQUIPMENT, TYPICAL WIDTHS ARE PROVIDED.
6. IF RUTTING OR INDENTATIONS OCCURS DURING CRANE CROSSING, RESTORE TO ORIGINAL GRADE FOLLOWING REMOVAL OF CRANE MATS.

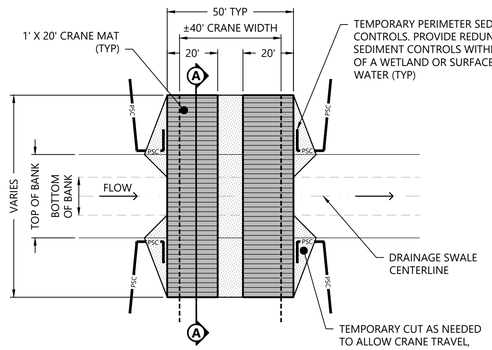
Westwood	CRANE CROSSING - DELINEATED WETLAND	NOT TO SCALE	CR-01



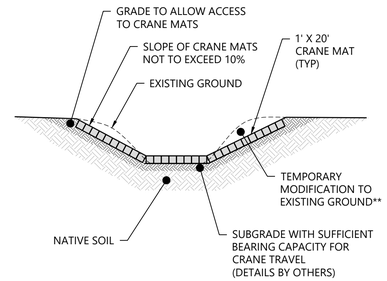
NOTES:

1. CULVERT INSTALLATION SHALL CONFORM WITH MANUFACTURER'S RECOMMENDATION FOR INSTALLATION/REMOVAL.
2. TEMPORARY BRIDGING AND MATTING MAY BE SUBSTITUTED IN THE FIELD WITH APPROVAL FROM THE OWNER AND ENGINEER.
3. MINIMIZE DISTURBANCE TO THE STREAM/SWALE DURING CULVERT INSTALLATION/REMOVAL.
4. CROWN TEMPORARY CRANE PATH TO PROMOTE LATERAL DRAINAGE TOWARDS PERIMETER SEDIMENT CONTROLS.
5. RIPRAP WITH GEOTEXTILE FABRIC MAY BE SUBSTITUTED FOR THE EROSION CONTROL BLANKETS.
6. REFER TO THE NPDES PERMIT FOR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.
7. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.
8. SEE DETAIL **CR-04** FOR RESTORATION.
9. CRANE MATS MAY BE ADDED ALONG THE TRAVEL PATH AT CONTRACTOR DISCRETION.
10. THIS DETAIL DOES NOT ADDRESS THE OVERALL STABILITY OF THE CROSSING. A LICENSED PROFESSIONAL SHALL DESIGN THE CROSSING DIMENSIONS, MATERIALS, PLACEMENT, AND TESTING TO ENSURE ADEQUATE SUBGRADE BEARING CAPACITY AND SLOPE STABILITY FOR THE PROPOSED CRANE TRAVEL.

Westwood	CRANE CROSSING - EXISTING DRAINAGE SWALE WITH CULVERT	NOT TO SCALE	CR-03



PLAN VIEW



**NO CUT OR FILL ALLOWED IF WATERS OF THE US (WOTUS). REVIEW ENVIRONMENTAL PERMITS.

SECTION A-A

NOTES:

1. STRUCTURAL DESIGN, SUBGRADE RECOMMENDATIONS, AND TESTING FOR CRANE WALKS AND CRANE PADS IS NOT INCLUDED. REFER TO THE GEOTECHNICAL REPORT, PROJECT SPECIFIC CRANE WALK/PAD STRUCTURAL DESIGN (IF AVAILABLE), GEOTECHNICAL ENGINEER, AND/OR CONTRACTOR FOR SPECIFIC INFORMATION.
2. SUBGRADE IMPROVEMENT AND COMPACTION MAY BE REQUIRED TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR CRANE TRAVEL.
3. THE CRANE SHALL CROSS THE DRAINAGE SWALE AS CLOSE TO PERPENDICULAR AS POSSIBLE.
4. CHANNEL SLOPES MAY NEED MODIFICATION TEMPORARILY DURING CONSTRUCTION TO ALLOW FOR CRANE CROSSING. ANY MODIFICATIONS SHALL BE RESTORED TO ORIGINAL CONDITIONS UPON SITE RESTORATION. SEE DETAIL **CR-04** FOR RESTORATION.
5. REVIEW ALL ENVIRONMENTAL PERMITS PRIOR TO CROSSING DRAINAGE SWALE TO ENSURE CONFORMANCE WITH PERMIT REQUIREMENTS.
6. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE NPDES PERMIT. STABILIZE AND RESTORE ANY DISTURBED AREA IN ACCORDANCE WITH THE NPDES PERMIT AND ENVIRONMENTAL PERMIT REQUIREMENTS POST CRANE CROSSING.
7. TOTAL CRANE MATTING WIDTH VARIES BY CONTRACTOR AND EQUIPMENT, TYPICAL WIDTHS ARE PROVIDED.
8. MATS ARE TO BE REMOVED IMMEDIATELY AFTER CROSSING ACTIVITY IS COMPLETE.
9. IF RUTTING OR INDENTATIONS OCCURS DURING CRANE CROSSING, RESTORE TO ORIGINAL GRADE FOLLOWING REMOVAL OF CRANE MATS.

Westwood	CRANE CROSSING - EXISTING DRAINAGE SWALE WITH MATS	NOT TO SCALE	CR-02

Westwood
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20455 State Highway 249, Suite 400
Houston, TX 77070
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Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
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392 County Road 50
Avon, MN 56310

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A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
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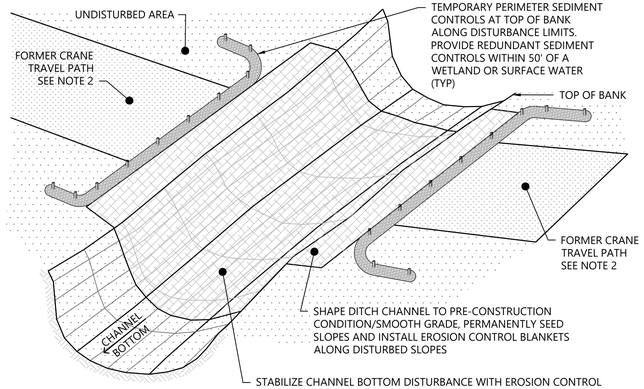
Philip Wind Project
Haakon County, South Dakota

Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C705
REV: B

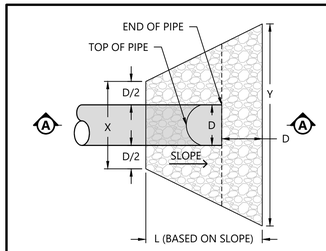
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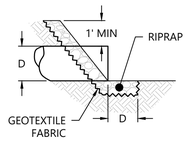
NOTES:

1. REMOVE RIPRAP, FILL MATERIAL AND SHAPE CHANNEL TO APPROXIMATE PRE-CONSTRUCTION CONDITION. PERMANENTLY SEED ALL DISTURBED SLOPES IN CONFORMANCE WITH THE NPDES PERMIT. INSTALL EROSION CONTROL BLANKETS, ADEQUATE FOR FLOW CONDITIONS, ON ALL DISTURBED SLOPES GREATER THAN 4:1, WHERE ANY FLOWS ARE CONCENTRATED AND WITHIN THE DITCHES WETTED PERIMETER.
2. DECOMPACT, REAPPLY TOPSOIL AND TILL DISTURBED AREA TO RESTORE TO PRE-CONSTRUCTION AGRICULTURAL CONDITION AND RESTORE ANY VEGETATED BUFFER THAT EXISTED PRE-CONSTRUCTION.
3. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.
4. REMOVE PERIMETER SEDIMENT CONTROL ONCE FINAL STABILIZATION HAS OCCURRED WITH A MINIMUM OF 70% VEGETATION UPHILL OF PERIMETER SEDIMENT CONTROL.

Westwood	CRANE CROSSING - EXISTING DRAINAGE SWALE RESTORATION	NOT TO SCALE	CR-04



PLAN VIEW



SECTION A-A

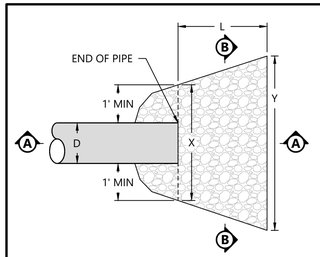
RIPRAP AT CULVERT INLETS

PIPE DIAMETER (D)		L 1:1	L 2:1	L 3:1	X	Y	RIPRAP SIZE (D50)	RIPRAP DEPTH
(IN)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(IN)	(FT)
12	1	4	7	10	2	4	6	1
15	1.25	4.5	7.8	11	2.5	5	6	1
18	1.5	5	8.5	12	3	6	6	1
21	1.75	5.5	9.3	13	3.5	7	9	1.5
24	2	6	10	14	4	8	9	1.5
30	2.5	7	11.5	16	5	10	9	1.5
36	3	8	13	18	6	12	9	1.5
42	3.5	9	14.5	20	7	14	9	1.5
48	4	10	16	22	8	16	9	1.5
54	4.5	11	17.5	24	9	18	12	2
60	5	12	19	26	10	20	12	2
>60	>5	CONTACT ENGINEER FOR SPECIFIC DESIGN						

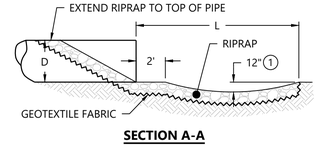
NOTES:

1. RIPRAP IS NOT REQUIRED AT CULVERTS 21" OR LESS, UNLESS SPECIFICALLY SHOWN ON THE PLANS.
2. RIPRAP SHALL BE INSTALLED AT ALL CULVERTS 24" THROUGH 60" PER THIS DETAIL, UNLESS APPROVED BY THE ENGINEER.
3. CONTRACTOR SHALL PLACE RIPRAP, PULVERIZED TOPSOIL, SEED AND EROSION CONTROL BLANKET IMMEDIATELY AFTER PIPE IS INSTALLED, EXTEND AREA TO MATCH UNDISTURBED SOIL.
4. CONFIRM REQUIREMENTS IN PUBLIC RIGHT-OF-WAY WITH THE AUTHORITY HAVING JURISDICTION.
5. DIMENSION "D" EQUALS INSIDE DIAMETER OF PIPE.
6. RIPRAP SHALL EXTEND THE ENTIRE WIDTH BETWEEN MULTIPLE CULVERTS.
7. RIPRAP MATERIAL SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE FHWA STANDARD SPECIFICATIONS FP-14 SECTION 705.02. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 251.

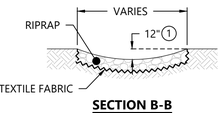
Westwood	PERMANENT RIPRAP AT CULVERT INLETS	NOT TO SCALE	DN-31



PLAN VIEW



SECTION A-A



SECTION B-B

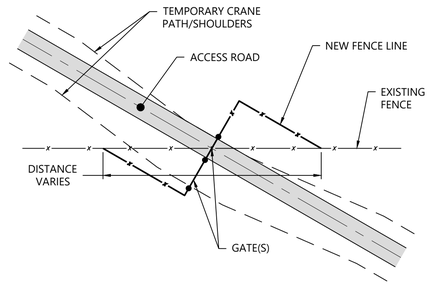
RIPRAP AT CULVERT OUTLETS

PIPE DIAMETER (D)		L	X	Y	RIPRAP SIZE (D50)	RIPRAP DEPTH
(IN)	(FT)	(FT)	(FT)	(FT)	(IN)	(FT)
12	1	8	3	8	6	1
15	1.25	8	3.3	9	6	1
18	1.5	8	3.5	10	6	1
21	1.75	8	3.8	11	9	1.5
24	2	8	4	11	9	1.5
30	2.5	10	4.5	14	9	1.5
36	3	15	5	19	12	2
42	3.5	18	5.5	22	12	2
48	4	20	6	25	12	2
54	4.5	27	6.5	31.5	12	2
60	5	30	7	35	12	2
>60	>5	CONTACT ENGINEER FOR SPECIFIC DESIGN				

NOTES:

(1) FOR PIPES GREATER OR EQUAL TO 30", USE 1.5'.
(2) RIPRAP IS NOT REQUIRED AT CULVERTS 21" OR LESS IF BOTH THE INLET AND OUTLET SIDE OF FLOW LINE REMAIN UNDISTURBED DURING CULVERT INSTALLATION AND THE CULVERT DRAINS INTO AN UNDISTURBED VEGETATED AREA. IF DISTURBANCE OCCURS, AN APPROVED ALTERNATIVE TO RIPRAP MAY BE USED TO MITIGATE FLOW VELOCITIES DURING VEGETATION ESTABLISHMENT.
3. RIPRAP SHALL BE INSTALLED AT ALL CULVERTS 24" THROUGH 60" PER THIS DETAIL, UNLESS APPROVED BY THE ENGINEER.
4. CONFIRM REQUIREMENTS IN PUBLIC RIGHT-OF-WAY WITH THE AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR SHALL PLACE RIPRAP, PULVERIZED TOPSOIL, SEED AND EROSION CONTROL BLANKET IMMEDIATELY AFTER PIPE IS INSTALLED, EXTEND AREA TO MATCH UNDISTURBED SOIL.
6. DIMENSION "D" EQUALS INSIDE DIAMETER OF PIPE.
7. RIPRAP SHALL EXTEND THE ENTIRE WIDTH BETWEEN MULTIPLE CULVERTS.
8. RIPRAP MATERIAL SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE FHWA STANDARD SPECIFICATIONS FP-14 SECTION 705.02. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 251.

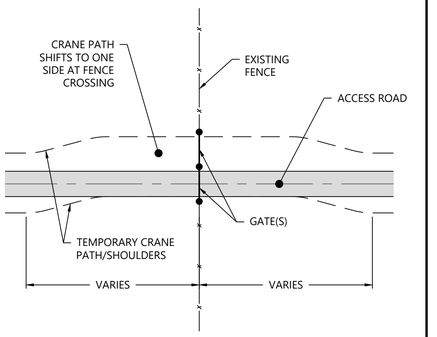
Westwood	PERMANENT RIPRAP AT CULVERT OUTLETS	NOT TO SCALE	DN-30



NOTES:

1. REFER TO GATE DETAILS FOR ADDITIONAL INFORMATION.
2. GATE(S) SHALL BE INSTALLED PERPENDICULAR TO ACCESS ROAD.
3. FENCE DIMENSIONS WILL VARY BASED ON PROPOSED ROAD ALIGNMENT AND EXISTING FENCE ANGLE.

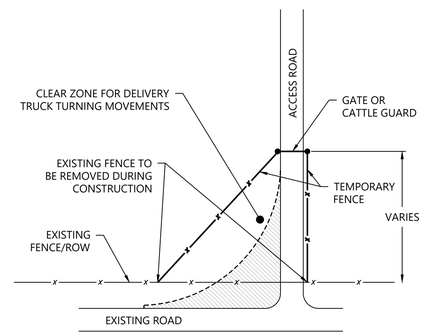
Westwood	SKEWED FENCE CROSSING	NOT TO SCALE	FN-40



NOTES:

1. REFER TO GATE DETAILS FOR ADDITIONAL INFORMATION.
2. GATE(S) SHALL BE INSTALLED PERPENDICULAR TO ACCESS ROAD.

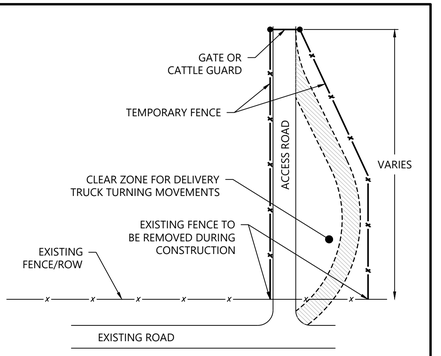
Westwood	SHIFTED CRANE PATH AT FENCE CROSSING	NOT TO SCALE	FN-41



NOTE:

FOLLOWING TURBINE CONSTRUCTION TRAFFIC, THE TEMPORARY FENCE AND GATE SHALL BE REMOVED AND REINSTALLED TO MATCH THE PRE-CONSTRUCTION CONFIGURATION.

Westwood	TEMPORARY GATE/FENCE SETBACK FROM ROW - STANDARD	NOT TO SCALE	FN-42



NOTE:

FOLLOWING TURBINE CONSTRUCTION TRAFFIC, THE TEMPORARY FENCE AND GATE SHALL BE REMOVED AND REINSTALLED TO MATCH THE PRE-CONSTRUCTION CONFIGURATION.

Westwood	TEMPORARY GATE/FENCE SETBACK FROM ROW - JUG HANDLE	NOT TO SCALE	FN-43

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DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

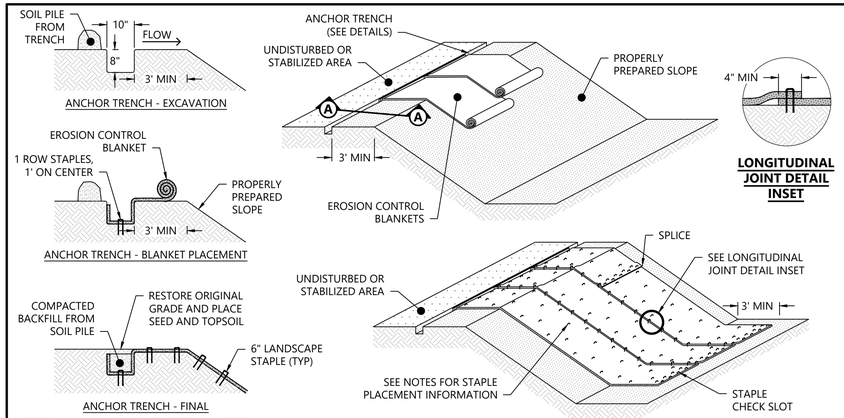
Philip Wind Project
Haakon County, South Dakota

Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C706
REV: B

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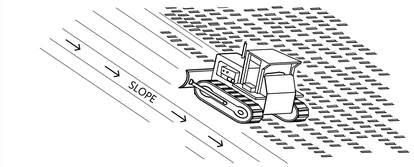


SECTION A-A - ANCHOR TRENCH DETAILS

NOTES:

1. EROSION CONTROL BLANKETS ARE INTENDED TO BE USED AS AN IMMEDIATE MULCH COVER FOR DISTURBED SLOPES THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED.
2. EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. WHEN NOT AVAILABLE, INSTALL ACCORDING TO THIS DETAIL AND THE FOLLOWING NOTES:
   - 2.1. STEP ONE: SITE PREPARATION. TO PREVENT TENTING THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING, AND CAKING. FILL ANY VOIDS AND MAKE SURE THE SLOPE IS COMPACTED PROPERLY.
   - 2.2. STEP TWO: ADEQUATE TOPSOIL AND/OR SOIL AMENDMENTS SHALL BE REAPPLIED AFTER GRADING PRIOR TO SEEDING, AS NEEDED.
   - 2.3. STEP THREE: SEEDING. SEED WITHOUT MULCH SHOULD BE APPLIED TO THE AREA TO BE VEGETATED.
   - 2.4. STEP FOUR: ANCHORING THE EROSION CONTROL BLANKET. AT THE TOP OF THE SLOPE EXCAVATE A 8" X 10" ANCHOR TRENCH, ALLOWING A MINIMUM OF 3' FROM THE CREST OF THE SLOPE TO THE ANCHOR TRENCH. PLACE THE BEGINNING OF THE EROSION CONTROL BLANKET INTO THE ANCHOR TRENCH SIDE FURTHEST TO THE SLOPE AND LINE THE TRENCH TOWARDS THE SLOPE. ANCHOR THE EROSION CONTROL BLANKET WITH STAPLES 1' ON CENTER ON THE BOTTOM OF THE TRENCH WHEN NO OTHER GUIDANCE IS AVAILABLE. DRIVE STAPLES FLUSH WITH THE SOIL SURFACE. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE TOPSOIL AND SEED OVER THE COMPACTED SOIL.
   - 2.4. STEP FIVE: EROSION CONTROL BLANKET DEPLOYMENT. STARTING AT THE CREST OF THE SLOPE, ROLL THE EROSION CONTROL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER TO PREVENT EXCESSIVE STRETCHING. APPROXIMATELY EVERY 20'-25' PULL THE EROSION CONTROL BLANKET TO TAKE OUT ANY EXCESS SLACK. THE GOAL IS TO HAVE THE EROSION CONTROL BLANKET CONTOUR AND INITIATE CONTACT WITH THE SOIL.
   - 2.5. STEP SIX: STAPLE OR STAKE THE EROSION CONTROL BLANKET. SECURE THE OVERLAP OR THE EDGES WITH STAPLES. THE TYPICAL INSTALLATION WILL REQUIRE ONE STAPLE PLACED AT 3' INTERVALS ALONG THE VERTICAL LENGTH OF THE EROSION CONTROL BLANKET. STAPLES SHOULD BE STAGGERED EVERY 18" TO 24" HORIZONTALLY ACROSS THE EROSION CONTROL BLANKET. IF THE EROSION CONTROL BLANKET NEEDS TO BE SPLICED IN THE MIDDLE OF A SLOPE BE SURE THE EROSION CONTROL BLANKET IS "SHINGLED" WITH UP-SLOPE EROSION CONTROL BLANKET OVERLAPPING THE DOWN-SLOPE EROSION CONTROL BLANKET. THERE SHOULD BE A MINIMUM OF 4" OF OVERLAP IN A SPLICE. USE A STAPLE CHECK SLOT TO SECURE THE OVERLAP. A STAPLE CHECK SLOT IS MADE BY PLACING A ROW OF STAPLES 4" ON CENTER AND THEN PLACING A SECOND ROW OF STAPLES 4" ON CENTER, STAGGERED FROM THE FIRST ROW.
   - 2.6. STEP SEVEN: SECURING THE EROSION CONTROL BLANKET AT THE TOE OF THE SLOPE. ROLL THE EROSION CONTROL BLANKET 36" PAST THE TOE OF THE SLOPE. CONSTRUCT A STAPLE CHECK SLOT ALONG THE TERMINAL END OF THE EROSION CONTROL BLANKET BY INSTALLING 2 ROWS OF STAGGERED STAPLES 4" APART ON 4" CENTERS. IN HIGH WIND REGIONS, AN ALTERNATE METHOD FOR SECURING THE BLANKET IS TO UTILIZE THE SAME ANCHOR TRENCH METHOD UTILIZED AT THE CREST OF SLOPE.

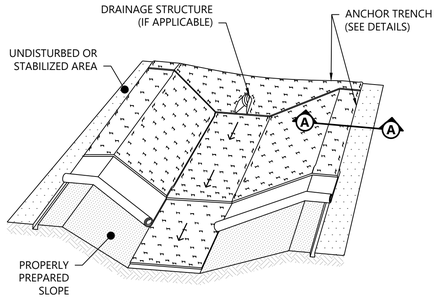
Westwood	EROSION CONTROL BLANKET INSTALLATION FOR SLOPE	NOT TO SCALE	SW-01



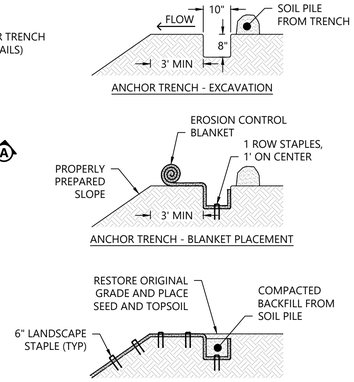
NOTES:

1. LIMIT ROUGHENING WITH TRACKED MACHINERY TO SOILS WITH A SANDY TEXTURAL COMPONENT TO AVOID UNDUE COMPACTION OF THE SOIL SURFACE. TRACKING SOILS WITH HEAVY CLAY CONTENT CAN CAUSE COMPACTION AND SEAL THE SLOPE SOILS, INCREASING RUNOFF AND MAKING SEED GERMINATION DIFFICULT.
2. OPERATE TRACKED MACHINERY UP AND DOWN THE SLOPE TO LEAVE HORIZONTAL DEPRESSIONS IN THE SOIL. USE FOR SLOPES 4:1 AND STEEPER LONGER THAN 50 LINEAR FEET. DO NOT BACK-BLADE DURING THE FINAL GRADING OPERATION.
3. IMMEDIATELY SEED AND STABILIZE (MULCH OR HYDRO MULCH) ROUGHENED AREAS TO OBTAIN OPTIMUM SEED GERMINATION AND GROWTH.
4. RECOMMEND USE OF SLOPE INTERRUPTERS, SUCH AS FURROWS OR FIBER LOGS, ON LONG (> 50 FEET), STEEP (≥4:1) SLOPES.

Westwood	SLOPE ROUGHENING WITH TRACKED MACHINERY	NOT TO SCALE	SW-03



ISOMETRIC VIEW

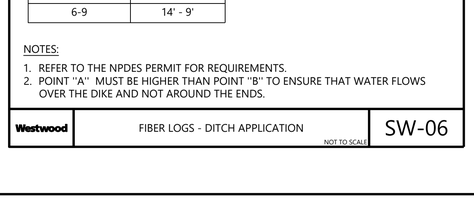


SECTION A-A - ANCHOR TRENCH DETAILS

NOTES:

1. EROSION CONTROL BLANKETS ARE USED TO TEMPORARILY AND PERMANENTLY STABILIZE DITCHES AND SWALES.
2. EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. WHEN NOT AVAILABLE INSTALL ACCORDING TO THIS DETAIL AND THE FOLLOWING NOTES:
   - 2.1. STEP ONE: TO PREVENT TENTING, THE CHANNEL SHOULD BE FINELY GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING, AND CAKING. FILL ANY VOIDS AND MAKE SURE THE CHANNEL IS COMPACTED PROPERLY.
   - 2.2. STEP TWO: ADEQUATE TOPSOIL AND/OR SOIL AMENDMENTS SHALL BE REAPPLIED AFTER GRADING PRIOR TO SEEDING, AS NEEDED.
   - 2.3. STEP THREE: SEEDING. SEED WITHOUT MULCH SHOULD BE APPLIED TO THE AREA TO BE VEGETATED.
   - 2.4. STEP FOUR: ANCHORING THE EROSION CONTROL BLANKET. EROSION CONTROL BLANKETS SHALL BE ANCHORED AT THE BEGINNING OF THE CHANNEL A 8" X 10" DEEP TRENCH SHOULD BE EXCAVATED PERPENDICULAR TO THE DIRECTION OF WATER FLOW ACROSS THE ENTIRE WIDTH OF THE CHANNEL. PLACE THE BEGINNING OF THE EROSION CONTROL BLANKET INTO THE ANCHOR TRENCH SIDE FURTHEST TO THE SLOPE AND LINE THE TRENCH TOWARDS THE SLOPE. ANCHOR THE EROSION CONTROL BLANKET WITH STAPLES 1' ON CENTER ON THE BOTTOM OF THE TRENCH WHEN NO OTHER GUIDANCE IS AVAILABLE. DRIVE STAPLES FLUSH WITH THE SOIL SURFACE. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE TOPSOIL AND SEED OVER THE COMPACTED SOIL.
   - 2.5. STEP FIVE: EROSION CONTROL BLANKET DEPLOYMENT IN THE CHANNEL BOTTOM. THE EROSION CONTROL BLANKETS SHOULD BE UNROLLED IN THE DIRECTION OF WATER FLOW. FIRST THE EROSION CONTROL BLANKET IS DEPLOYED IN THE CHANNEL BOTTOM. IT IS ALSO NECESSARY TO PREVENT A SEAM FROM GOING DOWN THE CENTER OF THE CHANNEL BOTTOM OR IN AREAS OF CONCENTRATED WATER FLOW. WHEN INSTALLING TWO EROSION CONTROL BLANKETS SIDE BY SIDE IN A WATERWAY THE CENTER OF THE EROSION CONTROL BLANKET SHOULD BE CENTERED IN THE AREA OF CONCENTRATED WATER FLOW. INSTALL ADJOINING EROSION CONTROL BLANKETS AWAY FROM THE CENTER OF THE CHANNEL BOTTOM. ADJOINING EROSION CONTROL BLANKETS SHOULD BE OVERLAPPED 4" TO 6". CONTINUE TO INSTALL A COMMON ROW OF STAPLES AT 2' CENTERS ALONG THE LENGTH OF THE OVERLAP.
   - 2.6. STEP SIX: EROSION CONTROL BLANKET DEPLOYMENT ON THE SIDE SLOPES. CONTINUE TO ROLL THE EROSION CONTROL BLANKET ALONG THE CHANNEL BOTTOM AND SIDE SLOPES IN THE DIRECTION OF THE WATER FLOW. AS THE EROSION CONTROL BLANKET IS INSTALLED FROM THE CHANNEL BOTTOM UP THE SLOPE, A SHINGLE TYPE INSTALLATION IS NECESSARY WITH THE UP-SLOPE EROSION CONTROL BLANKET OVERLAPPING THE LOWER EROSION CONTROL BLANKET APPROXIMATELY 4". ANCHOR THE EROSION CONTROL BLANKETS WITH A MINIMUM OF ONE STAPLE EVERY 24" ACROSS THE WIDTH AND ONE STAPLE EVERY 36" DOWN ITS LENGTH. IF THE EROSION CONTROL BLANKET NEEDS TO BE SPLICED, BE SURE THE EROSION CONTROL BLANKET IS "SHINGLED" WITH THE UPSTREAM EROSION CONTROL BLANKET OVERLAPPING THE DOWNSTREAM EROSION CONTROL BLANKET. THERE SHOULD BE A MINIMUM OF 4" OF OVERLAP IN A SPLICE.
   - 2.7. STEP SEVEN: TERMINAL END. SECURE THE EROSION CONTROL BLANKET AT THE TERMINAL END OF THE CHANNEL WITH A ROW OF STAPLES.

Westwood	EROSION CONTROL BLANKET INSTALLATION FOR CHANNEL	NOT TO SCALE	SW-02



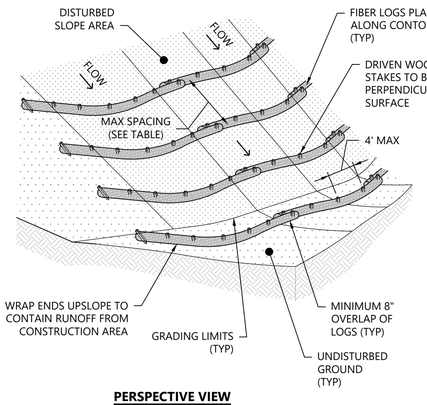
NOTES:

1. REFER TO THE MANUFACTURER OR SUPPLIER OF THE PRODUCT FOR APPLICATION, IMPLEMENTATION, AND SPECIFICATION REQUIREMENTS.
2. ALL HYDRAULICALLY APPLIED MATERIAL SHALL BE APPROVED BY ALL JURISDICTIONS HAVING AUTHORITY.
3. APPLY HYDRAULICALLY APPLIED MATERIAL TO EXPOSED SOILS FOR STABILIZATION MEASURES. EXPOSED SOILS MAY INCLUDE ROUGH GRADED AREAS, SOIL STOCKPILES, CUT/FILL SLOPES, ETC.
4. PREPARE SOIL SURFACES IN ACCORDANCE WITH PLANNED SEED BED PREPARATION.
5. AVOID OVERSPRAY ONTO ROADS AND INFRASTRUCTURE.
6. APPLY TWO DIRECTIONS (90 DEGREES BETWEEN) TO ADEQUATELY COVER THE SOIL.
7. ALLOW ADEQUATE TIME FOR HYDRAULICALLY APPLIED MATERIAL TO DRY. HYDRAULICALLY APPLIED MATERIAL SHOULD NOT BE APPLIED IMMEDIATELY BEFORE, DURING OR IMMEDIATELY AFTER RAINFALL OR IF THE SOIL IS SATURATED.
8. APPLY SEED PRIOR TO HYDRAULICALLY APPLIED MATERIAL OR MIX SEED WITH HYDRAULICALLY APPLIED MATERIAL PRIOR TO APPLICATION.

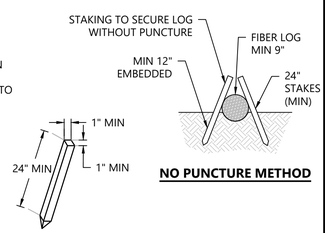
Westwood	SLOPE STABILIZATION - HYDRAULICALLY APPLIED MATERIAL	NOT TO SCALE	SW-04

NOTES:

1. FIBER LOGS SHALL BE PREFABRICATED AND MADE FROM CERTIFIED STRAW, WOOD, COCONUT FIBER, OR SIMILAR AGRICULTURAL MATERIAL BOUND INTO A TIGHT TUBULAR LOG BY NETTING. USE A 9" DIA. LOG MINIMUM.
2. STAKE FIBER LOGS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER LOG AND SPACED 4 FEET MAXIMUM ON CENTER. USE WOOD STAKES WITH NOMINAL CLASSIFICATION OF 1" BY 1" AND A MINIMUM LENGTH OF 24".
3. PREPARE THE SLOPE BEFORE BEGINNING THE INSTALLATION.
4. DIG SMALL TRENCHES ACROSS THE SLOPE ON THE CONTOUR. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE THICKNESS OF THE LOG, AND THE WIDTH SHOULD EQUAL THE LOG DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH.
5. LOGS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR.
6. START BUILDING TRENCHES AND INSTALLING LOGS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
7. TURN THE ENDS OF THE FIBER LOGS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE LOG.
8. IF MORE THAN ONE FIBER LOG IS PLACED IN A ROW, THE LOGS SHOULD BE OVERLAPPED, NOT ABUTTED.
9. FIBER LOGS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION ONLY AND SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER LOGS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN.
10. TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY
11. FIBER LOGS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE ASSOCIATED PROJECT TYPE AND RISK LEVEL. IT IS RECOMMENDED THAT A MINIMUM, THE BMPS BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS.
12. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER LOGS.
13. IF THE FIBER LOG IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP SHOULD BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-THIRD THE DESIGNATED SEDIMENT STORAGE DEPTH.
14. IF FIBER LOGS ARE USED FOR EROSION CONTROL, SEDIMENT REMOVAL SHOULD NOT BE REQUIRED AS LONG AS THE SYSTEM CONTINUES TO CONTROL THE GRADE. SEDIMENT CONTROL BMPS WILL LIKELY BE REQUIRE IN CONJUNCTION WITH THIS TYPE OF APPLICATION.
15. REPAIR ANY RILLS OR GULLIES PROMPTLY.



PERSPECTIVE VIEW

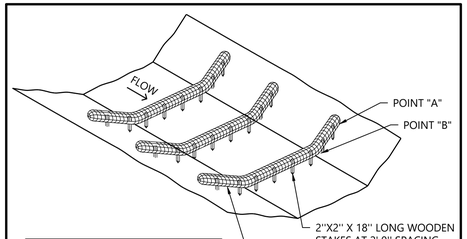


NO PUNCTURE METHOD

WOODEN STAKE

MAXIMUM SPACING RECOMMENDATIONS			
	FIBER LOG SIZE		
SLOPE	9" DIA.	12" DIA.	20" DIA.
≤4:1	40 FT	60 FT	80 FT
3:1	30 FT	45 FT	60 FT
2:1	20 FT	30 FT	40 FT
1:1	10 FT	15 FT	20 FT

Westwood	FIBER LOGS - SLOPE APPLICATION	NOT TO SCALE	SW-05



SPACING RECOMMENDATIONS	
DITCH GRADE (%)	SPACING (FT)
0-2	42'
3-5	28' - 17'
6-9	14' - 9'

NOTES:

1. REFER TO THE NPDES PERMIT FOR REQUIREMENTS.
2. POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

Westwood	FIBER LOGS - DITCH APPLICATION	NOT TO SCALE	SW-06

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SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project

Haakon County, South Dakota

Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

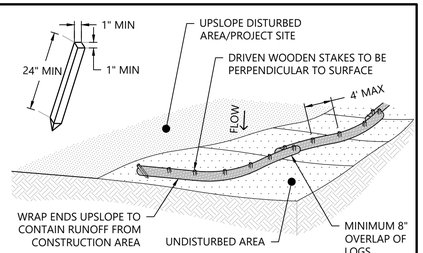
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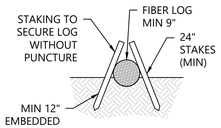
South Dakota 811 Know what's below. Call before you dig.

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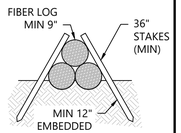
NOTES:

1. FIBER LOGS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES COMMENCE.
2. FIBER LOGS SHALL BE PREFABRICATED AND MADE FROM CERTIFIED STRAW, WOOD, COCONUT FIBER, OR SIMILAR AGRICULTURAL MATERIAL BOUND INTO A TIGHT TUBULAR LOG BY NETTING. USE A 9" DIA. LOG MINIMUM.
3. TRENCHES SHALL BE CREATED ALONG THE SLOPE OF THE PERIMETER. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE THICKNESS OF THE LOG, AND THE WIDTH SHOULD EQUAL THE LOG DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH.
4. STAKE FIBER LOGS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER LOG AND SPACED 4 FEET MAXIMUM ON CENTER. USE HARD WOOD STAKES WITH NOMINAL CLASSIFICATION OF AT LEAST 1" BY 1" AND A MINIMUM LENGTH OF 24". STAKES SHALL BE EMBEDDED A MINIMUM DEPTH OF 12".
5. LOGS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR.
6. TURN THE ENDS OF THE FIBER LOGS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE LOG. THE UPSLOPE POINT SHOULD BE A MINIMUM 12" HIGHER IN ELEVATION THAN THE LOW POINT.
7. IF MORE THAN ONE FIBER LOG IS PLACED IN A ROW, THE LOGS SHOULD BE OVERLAPPED A MINIMUM OF 8 INCHES, NOT ABUTTED.
8. FIBER LOGS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION ONLY AND SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER LOGS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN.
9. TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY.
10. FIBER LOGS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE ASSOCIATED PROJECT TYPE AND RISK LEVEL.
11. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER LOGS.
12. SEDIMENT THAT ACCUMULATES UPSLOPE OF THE BMP SHOULD BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. REFER TO CONSTRUCTION GENERAL PERMIT FOR SEDIMENT ACCUMULATION MAINTENANCE INTERVALS.
13. RILL, UNDERMINING, AND/OR GULLIES MAY BEGIN TO FORM FOLLOWING MAJOR STORM EVENTS WHERE RUNOFF HAS OVERTOPPED THE FIBER LOGS. THESE RILLS OR GULLIES SHOULD BE PROMPTLY REPAIRED.



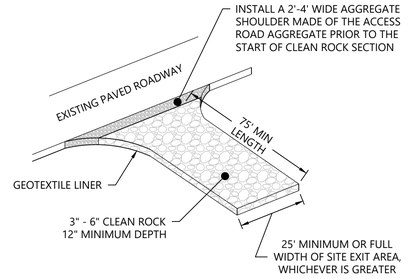


NO PUNCTURE METHOD



STACKING METHOD

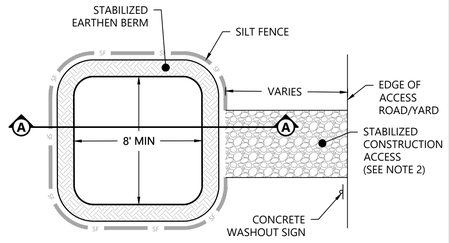
Westwood	PERIMETER SEDIMENT CONTROL - FIBER LOGS	SW-13
	NOT TO SCALE	



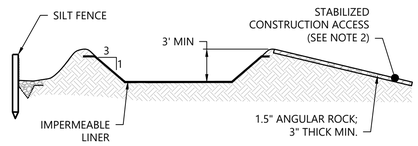
NOTES:

1. IF SEDIMENT TRACKING IS OBSERVED ON EXISTING PAVED ROADWAY, THE CONTRACTOR SHALL SCRAPE AND SWEEP THE SURFACE WITH A PICKUP BROOM ATTACHMENT OR VEHICLE.
2. REGULAR INSPECTION AND MAINTENANCE SHALL BE PERFORMED OVER LIFE OF USE.
3. LENGTH MAY NEED TO BE EXTENDED AS NECESSARY TO IMPROVE PERFORMANCE.
4. CLEAN ROCK MATERIAL SHALL BE SET BACK 2'-4' FROM THE EXISTING PAVED ROAD TO PROTECT INTEGRITY OF THE PAVEMENT.
5. CONTRACTOR SHALL REPAIR DAMAGE TO THE PUBLIC ROAD/SHOULDER IN THE IMMEDIATE VICINITY OF THE ROCK EXIT CAUSED BY CONSTRUCTION ACTIVITIES.

Westwood	VEHICLE TRACKOUT CONTROL - ROCK EXIT	SW-40
	NOT TO SCALE	



PLAN VIEW

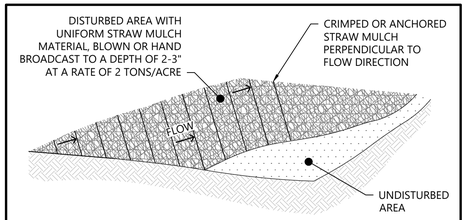


SECTION A-A

NOTES:

1. CONCRETE WASHOUT AREAS SHALL BE LINED WITH A 10 MIL PLASTIC IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL.
2. PROVIDE STABILIZED CONSTRUCTION ACCESS IF SEDIMENT TRACKING CONTROLS ARE NECESSARY.
3. ALTERNATE WASHOUT SYSTEMS MAY BE USED IF APPROVED.
4. REFER TO PROJECT NPDES PERMIT FOR ADDITIONAL CONSTRUCTION, MAINTENANCE, AND REMOVAL REQUIREMENTS

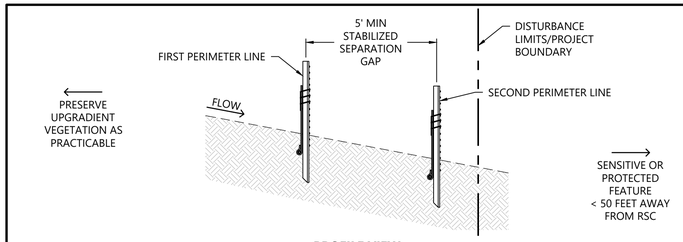
Westwood	CONCRETE WASHOUT AREA	SW-60
	NOT TO SCALE	



NOTES:

1. STRAW MULCH IS INTENDED TO BE USED AS AN IMMEDIATE TEMPORARY STABILIZATION COVER FOR DISTURBED SLOPES THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED.
2. STRAW MULCH CAN BE APPLIED BY HAND BROADCASTING OR MACHINE BLOWN ONTO THE SLOPE TO ACHIEVE UNIFORM COVER.
3. STRAW MULCH IS TYPICALLY SUITABLE FOR SLOPES 4:1 AND FLATTER. SLOPES STEEPER THAN 4:1 SHALL USE EROSION CONTROL BLANKET OR SUITABLE ALTERNATIVE.
4. STRAW MULCH SHALL NOT BE APPLIED TO AREAS OF CONCENTRATED FLOW.
5. TO INCREASE THE EFFECTIVENESS OF THE MULCH COVER AGAINST WIND AND WATER EROSION, ANCHORING MAY BE APPLIED, POTENTIAL METHODS INCLUDE:
   - 5.1. HAND PUNCHING - HAND TOOLS CAN BE USED TO PUNCH THE STRAW INTO THE GROUND UNTIL ALL AREAS HAVE STRAW STANDING PERPENDICULAR TO THE SLOPE AND EMBEDDED AT LEAST 4" INTO THE GROUND. IT SHOULD BE PUNCHED ABOUT 12" APART.
   - 5.2. ROLLER PUNCHING - A ROLLER EQUIPPED WITH STRAIGHT STUDS NOT LESS THAN 6" LONG, FROM 4-6" WIDE, AND APPROXIMATELY 1" THICK IS ROLLED OVER THE STRAW MULCH.
   - 5.3. TRACKING - A BULLDOZER OR OTHER EQUIPMENT WITH CLEATED TRACKS, IS USED TO PUSH THE STRAW INTO THE SOIL. USED ONLY ON SLOPES WHERE THIS TYPE OF EQUIPMENT CAN SAFELY OPERATE. TRACKING EQUIPMENT MUST OPERATE UP AND DOWN THE SLOPE SO THE CLEAT TRACKS ARE PERPENDICULAR TO FLOW.
   - 5.4. DISK ANCHORING/CRIMPER PUNCHING - DISK ANCHORING IS TYPICALLY PERFORMED WITH A TRACTOR AND TANDEM STRAIGHT DISK PLOW. DISK SPACING SHOULD BE BETWEEN 4-8" APART. WEIGHT CAN BE ADDED TO TOW PLOW, AS NECESSARY, TO FORCE THE STRAW MULCH INTO THE SOIL. DISKING SHOULD BE DONE IN TWO DIRECTIONS WITH THE FINAL PASS ACROSS THE SLOPE.
   - 5.5. NETTING - NETTING MAY BE USED TO SECURE APPLIED MULCH ON STEEPER SLOPES (> 4:1) WHERE MULCH CANNOT BE PUNCHED WITH A ROLLER OR BY HAND. JUTE, WOOD EXCELSIOR OR PLASTIC NETTING IS APPLIED OVER UNPUNCHED STRAW MULCH AND ANCHORED WITH SOD STAPLES.
   - 5.6. TACKIFIER - ON STEEP SLOPES (> 4:1), A TACKIFIER AGENT MAY BE USED TO BOND OR GLUE THE MULCH THAT HAS BEEN SEEDED AND DISK ANCHORED ON THE SLOPE. THIS METHOD INCREASES THE LONGEVITY AND EFFECTIVENESS AND MAY REDUCE THE NEED FOR EROSION CONTROL BLANKETS ON STEEP SLOPES, WHEN PROPERLY APPLIED.

Westwood	STRAW MULCH - APPLICATION AND ANCHORING METHODS	SW-80
	NOT TO SCALE	



PROFILE VIEW

NOTES:

1. REDUNDANT PERIMETER SEDIMENT CONTROL (RSC) IS REQUIRED TO BE USED WHEN SOIL DISTURBANCE ACTIVITIES TAKE PLACE WITHIN THE 50' BUFFER OF A SENSITIVE OR PROTECTED FEATURE.
2. THE FIRST LINE (NEAREST THE LAND DISTURBANCE) OF PERIMETER SEDIMENT CONTROL SHOULD BE THE MOST ROBUST TO CONTAIN THE LARGEST LOAD OF DEBRIS, SEDIMENT AND SLOUGH IMPACTS.
3. THE TYPES OF REDUNDANT PERIMETER SEDIMENT CONTROLS SELECTED IS A FUNCTION OF THE TYPE OF WORK, WORK LIMITS, SLOPE STEEPNESS, SLOPE LENGTH, TIME OF YEAR AND ABILITY TO PROPERLY MAINTAIN AND MAY VARY ACROSS A PROJECT. THE IMAGE ABOVE IS A PICTORIAL REPRESENTATION ONLY, OTHER TYPES OF CONTROLS MAY BE USED.
4. STAGE AND PHASE DISTURBANCE TO THE SHORTEST PRACTICABLE TIME WHEN WORK ACTIVITIES ARE PLANNED NEAR SENSITIVE OR PROTECTED FEATURES.
5. ENSURE STABILIZATION OCCURS WITHIN THE NPDES PERMIT TIMEFRAMES AND AS RAPIDLY AS POSSIBLE NEAR SENSITIVE OR PROTECTED FEATURES.
6. INSPECT AND REPAIR PERIMETER SEDIMENT CONTROLS AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN ACCUMULATED TO **1/3 HEIGHT** OF THE CONTROL OR MORE.

Westwood	REDUNDANT PERIMETER SEDIMENT CONTROL	SW-91
	NOT TO SCALE	

Westwood
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PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

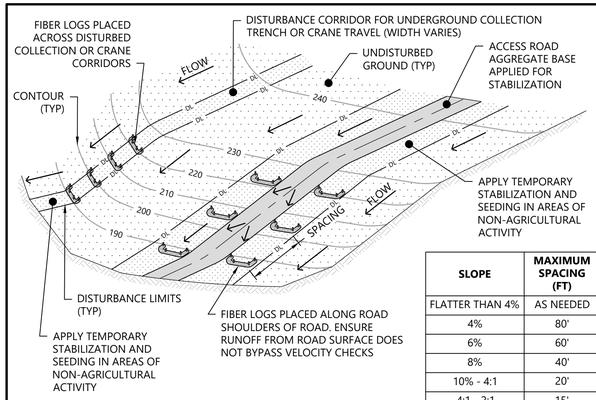
Philip Wind Project
Haakon County, South Dakota

Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C708
REV: B

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PERSPECTIVE VIEW

SLOPE	MAXIMUM SPACING (FT)
FLATTER THAN 4%	AS NEEDED
4%	80'
6%	60'
8%	40'
10% - 4:1	20'
4:1 - 2:1	15'
> 2:1	10'

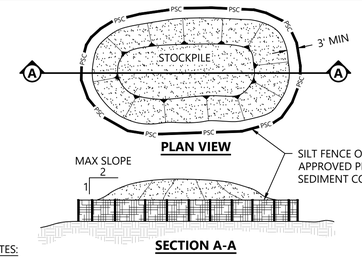
APPLICATION NOTES:

1. REFER TO THE NPDES PERMIT AND APPLICABLE STATE BMP MANUALS FOR IMPLEMENTATION AND TIMING REQUIREMENTS.
2. VELOCITY CHECKS SHALL BE INSTALLED IN AREAS WHERE A DISTURBANCE ACTIVITY IS NEAR PERPENDICULAR (±30°) TO THE CONTOURS AND RUNOFF FLOWS DOWN THE DISTURBANCE PATH. IF DISTURBANCE IS SLOPED TO ONE SIDE, APPLY VELOCITY CHECKS WITH J-HOOKS AT THE SPACING RECOMMENDED BELOW, SEE **SW-18** FOR DETAILS ON J-HOOKS.
3. ROAD APPLICATION: INSTALL VELOCITY CHECKS ACROSS DISTURBED SHOULDERS.
4. CRANE PATH APPLICATION: INSTALL VELOCITY CHECKS ACROSS THE CRANE PATH DISTURBANCE. REMOVE AND REPLACE FIBER LOGS FOR CRANE TRAVEL.
5. UNDERGROUND COLLECTION TRENCH APPLICATION: INSTALL VELOCITY CHECKS ACROSS DISTURBANCE PATH.
6. WHERE RILLING AND CHANNELIZATION OCCURS AND VELOCITY CHECKS FAIL TO PROVIDE ADEQUATE EROSION CONTROL, APPLICATION OF HYDROMULCH, STRAW MULCH OR EROSION CONTROL BLANKET (TEMPORARY STABILIZATION) MUST BE APPLIED AFTER SOIL PREPARATION TO REMEDY THE ISSUE.

INSTALLATION NOTES:

1. INSTALL VELOCITY CHECKS PER THE SPACING REQUIREMENTS ACCORDING TO THE SURFACE SLOPE DETAILED IN THE TABLE, AND ADJUST BASED ON FIELD CONDITIONS.
2. INSTALL VELOCITY CHECKS PARALLEL TO THE CONTOURS AND ACROSS DISTURBANCE CORRIDOR.
3. ELEVATIONS AT THE ENDS OF FIBER LOG NEED TO BE HIGHER THAN THE ELEVATION AT THE MIDDLE OF FIBER LOG. BOTH ENDS SHOULD HAVE A SMALL HOOK TO ENSURE THAT WATER FLOWS OVER THE FIBER LOG AND NOT AROUND THE ENDS.
4. SEE **SW-13** FOR INSTALLATION SPECIFICATIONS OF FIBER LOGS.

Westwood	VELOCITY CHECKS - FIBER LOGS	NOT TO SCALE	SW-07

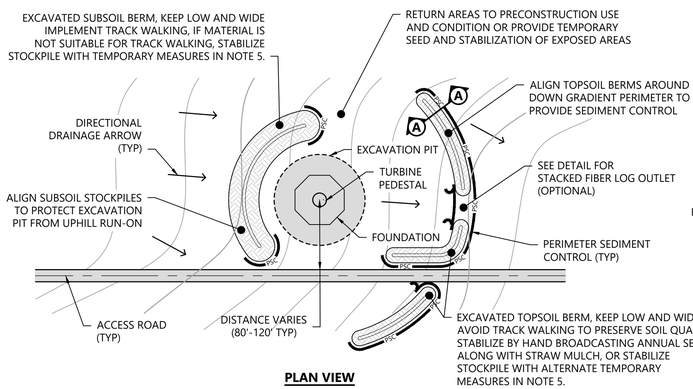


SECTION A-A

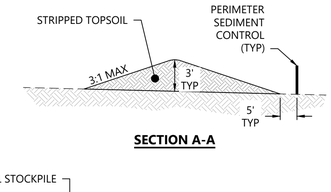
NOTES:

1. STOCKPILE SHALL BE FORMED IN A WIDE, LOW PROFILE FORMATION.
2. MAXIMUM HEIGHT SHALL BE 10 FEET TO PRESERVE QUALITY OF TOPSOIL MATERIAL.
3. SOIL STOCKPILES SHALL BE LOCATED ON SITE AND BE ENCLOSED WITH SILT FENCE OR OTHER APPROVED PERIMETER SEDIMENT CONTROL. IF THE SOIL IS TO REMAIN EXPOSED FOR MORE THAN 7 DAYS, TEMPORARY SOIL STABILIZATION BEST PRACTICES SHALL BE APPLIED IN ACCORDANCE WITH THE NPDES PERMIT.
4. STOCKPILES SHALL NOT BE PLACED WITHIN AREAS OF CONCENTRATED FLOW AND SHALL BE KEPT OUTSIDE OF AREAS WITH NEXT PHASE PLANNED ACTIVITIES.
5. ADEQUATE SETBACK SHALL BE PROVIDED FOR STOCKPILE PLACEMENT NEAR STEEP SLOPES AND AREAS OF CONCENTRATED FLOWS.
6. FOR LONG-TERM SUBSOIL STOCKPILES, STRIP THE TOPSOIL AT PLANNED SUBSOIL STOCKPILE LOCATION TO PRESERVE AND SPREAD OVER THE TOP OF THE STOCKPILE FOR SOIL STABILIZATION.

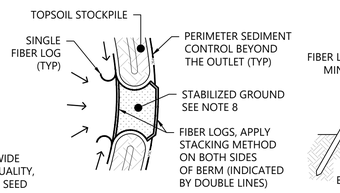
Westwood	SOIL STOCKPILE PROTECTION	NOT TO SCALE	SW-10



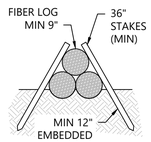
PLAN VIEW



SECTION A-A



STACKED FIBER LOG OUTLET

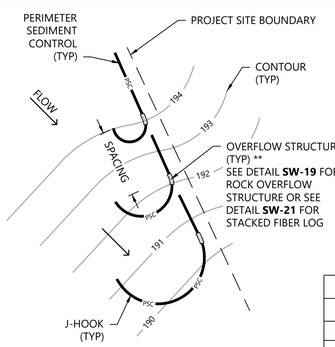


STACKING METHOD

NOTES:

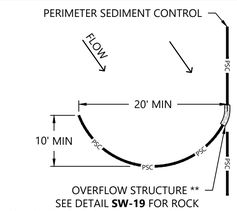
1. REFER TO NPDES PERMIT FOR SPECIFICATIONS OF EROSION AND SEDIMENT CONTROL MEASURES.
2. REDUNDANT PERIMETER SEDIMENT CONTROL IS REQUIRED WITHIN 50' OF WETLANDS AND STREAMS.
3. TERMINAL ENDS OF TOPSOIL BERM SHOULD BE HIGHER IN ELEVATION THAN THE TOP OF BERM.
4. MULTIPLE STACKED FIBER LOG OUTLETS MAY BE NEEDED, CONTRACTOR TO FIELD FIT AS NECESSARY. STACKED FIBER LOGS ARE OPTIONAL TO MINIMIZE WATER ACCUMULATION WITHIN PAD AREA.
5. TEMPORARY STABILIZATION FOR STOCKPILES MAY CONSIST OF HYDROMULCH, SOIL STABILIZER, OR TACKIFIER.
6. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBER LOGS, OR WOOD BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS. LOCATION OF PERIMETER SEDIMENT CONTROL MAY VARY DEPENDING UPON THE TERRAIN AT THE TURBINE SITE.
7. ALTERNATE BERM PLACEMENT OPTION - PLACE TOPSOIL BERM ALONG THE UP-GRADIENT PERIMETER. THIS WILL ACT AS A DIVERSION BERM TO ROUTE RUN-ON FLOWS AROUND THE PAD. INSTALL PERIMETER SEDIMENT CONTROL ALONG THE DOWN-GRADIENT SIDE OF THE PAD.
8. EROSION CONTROL BEST PRACTICES TO BE APPLIED TO ALL DISTURBED SOILS BETWEEN AND DOWNGRADIENT OF THE STACKED FIBER LOGS. STABILIZE GROUND BETWEEN THE STACKED FIBER LOGS WITH STRAW OR EROSION CONTROL BLANKET FOR STEEPER SLOPES, GREATER THAN OR EQUAL TO 3:1.

Westwood	TURBINE SITE - TOPSOIL BERM WITH STACKED FIBER LOG OUTLET	NOT TO SCALE	SW-16



PERSPECTIVE VIEW

** OVERFLOW STRUCTURES MAY BE OMITTED WHEN FIBER LOGS ARE UTILIZED AS PERIMETER SEDIMENT CONTROL (PSC)



J-HOOK DETAIL

SPACING RECOMMENDATIONS				
		SOIL TYPE		
MATERIAL	SLOPE	SILTY	CLAYS	SANDY
SILT FENCE	3:1	75 FT	100 FT	125 FT
	4:1	100 FT	125 FT	150 FT
	≤10:1	125 FT	150 FT	200 FT
9" FIBER LOG	≤3%	46 FT	56 FT	75 FT

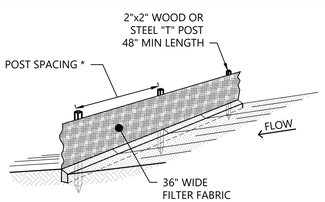
APPLICATION NOTES:

1. INSTALL J-HOOKS WHENEVER THE PERIMETER SEDIMENT CONTROL (PSC) BARRIER IS INSTALLED AT AN ANGLE OF 30 DEGREES OR GREATER FROM PARALLEL TO CONTOURS.
2. ADHERE TO J-HOOK SPACING REQUIREMENTS ACCORDING TO SURFACE SLOPE DETAILED IN TABLE.
3. WHERE MINIMUM HOOK DIMENSIONS SHOWN CANNOT BE ACHIEVED, NARROWER HOOKS MAY BE USED WITH HIGHER FREQUENCY SPACING.
4. WHERE PONDING DEPTH BEGINS TO EXCEED 1.5 FEET OR THE PSC BARRIER AND ROCK OUTLET OTHERWISE FAIL TO PROVIDE CONTROL, FREQUENCY AND SIZING OF J-HOOKS MUST BE ADJUSTED TO REMEDY THE ISSUE.
5. WHEN OVERLAND SHEET FLOW SLOPE IS LESS THAN OR EQUAL TO 3%, FIBER LOGS MAY BE USED AS PERIMETER SEDIMENT CONTROL. IF SHEET FLOW SLOPE IS GREATER THAN 3%, SILT FENCE MUST BE USED.

INSTALLATION NOTES:

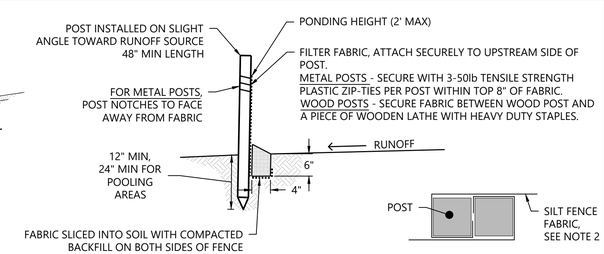
1. INSTALL J-HOOK LOCATED IMMEDIATELY DOWN GRADIENT FROM THE ROCK OUTLET TO ENSURE THE WATER IS NOT DIVERTED TO THE LOWEST AREAS WHERE A COMPLEX SLOPE EXISTS.
2. UP-GRADIENT PSC BARRIER AND J-HOOK ARE ONE CONTINUOUS BARRIER.
3. START DOWN-GRADIENT PSC BARRIER AS CLOSE AS POSSIBLE TO THE UP-GRADIENT J-HOOK.
4. BOTTOM OF PSC BARRIER ELEVATIONS AT THE END OF J-HOOK NEED TO BE HIGHER THAN THE TOP OF BARRIER ELEVATIONS AT THE MIDDLE OF J-HOOK.
5. TOP OF BARRIER ELEVATIONS AT THE MIDDLE OF J-HOOK NEED TO BE HIGHER THAN THE ROCK OUTLET ELEVATIONS.

Westwood	PERIMETER SEDIMENT CONTROL - J-HOOK APPLICATION	NOT TO SCALE	SW-18



* 6' MAX FOR OPEN RUNS
4' MAX FOR POOLING AREAS

PERSPECTIVE VIEW



POST AND TRENCH DETAIL **TOP VIEW - JOINT DETAIL**

NOTES:

1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN 2 , ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
2. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST. WHERE FABRIC ENDS MEET, WRAP AND TWIST THE FABRIC AROUND THE POST FOR A SECURE CONNECTION.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. ALL ENDS OF THE SILT FENCE SHALL BE WRAPPED UPSLOPE SO THE ELEVATION OF THE BOTTOM OF FABRIC IS HIGHER THAN "PONDING HEIGHT".
5. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN ACCUMULATED TO **1/3 HEIGHT** OF THE FABRIC OR MORE.
6. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
7. SILT FENCE SHOULD REMAIN IN PLACE AND MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
8. INSTALL A SECOND ROW OF SILT FENCE APPROXIMATELY 5' FROM INITIAL ROW WHEN REDUNDANT PROTECTION IS REQUIRED WITHIN 50' OF WETLANDS AND STREAMS.
9. AVOID SPLICED SECTIONS IN LOW LYING (LOAD BEARING) LOCATIONS.

Westwood	SILT FENCE - TRENCHED	NOT TO SCALE	SW-11

Westwood
Phone (281) 883-0103
Toll Free (888) 937-5150
20455 State Highway 249, Suite 400
Houston, TX 77070
westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO.
17360
DAVID
KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:

Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project

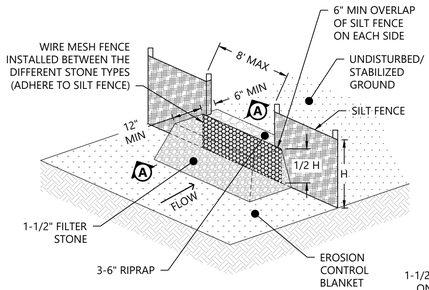
Haakon County, South Dakota

Construction Details

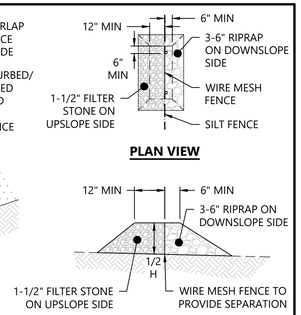
ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C709
REV: B

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PERSPECTIVE VIEW



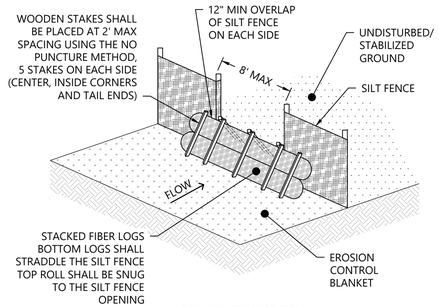
PLAN VIEW

SECTION A-A

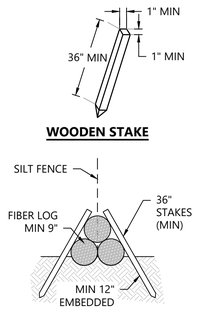
NOTES:

1. LOCATIONS OF ROCK OVERFLOW STRUCTURES ARE INDICATED ON THE PLANS AND/OR AS DETERMINED BY QUALIFIED PERSONNEL BASED ON FIELD CONDITIONS TO MAINTAIN PERMIT COMPLIANCE. QUALIFIED PERSONNEL MUST BE TRAINED AND CERTIFIED IN EROSION AND SEDIMENT CONTROL.
2. ROCK OVERFLOW STRUCTURES ARE RECOMMENDED AT ALL LOW POINTS AND AT A SPACING OF 300 FEET WHERE NO LOW POINT IS APPARENT.

Westwood	ROCK OVERFLOW STRUCTURE FOR SILT FENCE - HALF HEIGHT	NOT TO SCALE	SW-19



PERSPECTIVE VIEW



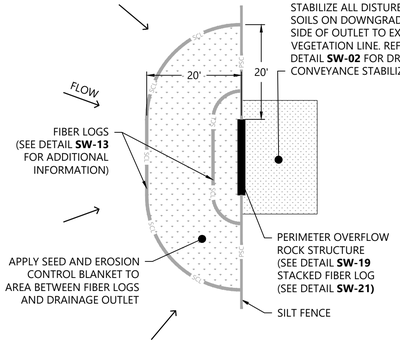
WOODEN STAKE

STACKING METHOD

NOTES:

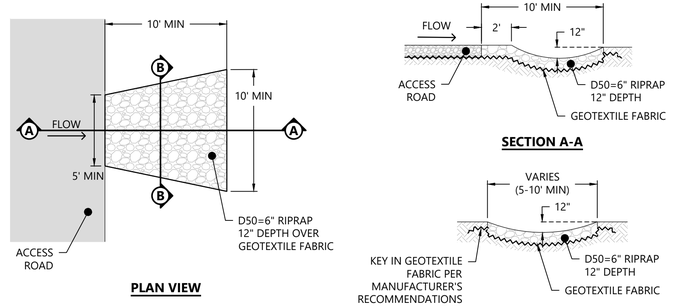
1. LOCATIONS OF STACKED FIBER LOG OVERFLOWS ARE INDICATED ON THE PLANS AND/OR AS DETERMINED BY QUALIFIED PERSONNEL BASED ON FIELD CONDITIONS TO MAINTAIN PERMIT COMPLIANCE. QUALIFIED PERSONNEL MUST BE TRAINED AND CERTIFIED IN EROSION AND SEDIMENT CONTROL.
2. STACKED FIBER LOG OVERFLOWS ARE RECOMMENDED AT ALL LOW POINTS AND AT A SPACING OF 300 FEET WHERE NO LOW POINT IS APPARENT.
3. FIBER LOGS SHALL BE POSITIONED TO ABUT THE SILT FENCE, NO GAP SHALL BE LEFT BETWEEN THE LOG AND SILT FENCE.

Westwood	STACKED FIBER LOG OVERFLOW FOR SILT FENCE	NOT TO SCALE	SW-21



PLAN VIEW

Westwood	PERIMETER OVERFLOW BUFFER	NOT TO SCALE	SW-22



PLAN VIEW

SECTION A-A

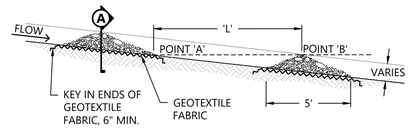
SECTION B-B

NOTES:

1. GEOTEXTILE FABRIC AND RIPRAP SHALL BE PLACED IMMEDIATELY FOLLOWING CONSTRUCTION OF ACCESS ROAD DIVERSION.
2. DIMENSIONS PROVIDED ARE MINIMUMS, EXTEND RIPRAP AS NECESSARY TO PROTECT NEWLY CONSTRUCTED SLOPES FROM EROSION.
3. **ALTERNATE STABILIZED OUTLET OPTION**: IN LIEU OF GEOTEXTILE/RIPRAP, PLACE PULVERIZED TOPSOIL, SEED AND EROSION CONTROL BLANKET. EROSION CONTROL BLANKET OPTION MUST BE SUFFICIENT FOR THE ANTICIPATED VELOCITIES AND SHEAR STRESS OF AT MINIMUM A 2 YEAR, 24-HOUR RAINFALL EVENT. CONSULT ENGINEER AND ON-SITE EROSION AND SEDIMENT CONTROL SPECIALIST PRIOR TO USE OF ALTERNATE OPTION.

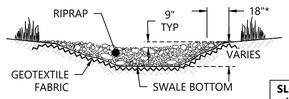
Westwood	STABILIZED OUTLET FOR ACCESS ROAD DIVERSIONS	NOT TO SCALE	SW-30

****ROCK CHECK SHALL BE USED WHERE NEEDED AS A FILTER MEDIA, OR WHERE EROSION CONTROL BLANKETS AND/OR FIBER LOGS DO NOT PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL.****



'L' = THE DISTANCE SUCH THAT POINTS 'A' AND 'B' ARE OF EQUAL ELEVATION.

SWALE BOTTOM PROFILE VIEW



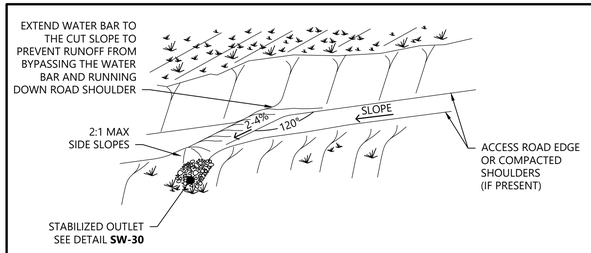
*KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT OVER FLOW AROUND DAM.

CROSS SECTION A-A

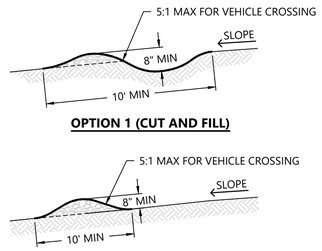
SLOPE (%)	"L" (FT)	RIPRAP D50
<2	100	6"
3-5	67-40	6"
6-9	33-22	CONTACT ENGINEER

TABLE BASED ON A 24" DEPTH DITCH.

Westwood	TEMPORARY ROCK CHECK DAM	NOT TO SCALE	SW-31



ISOMETRIC VIEW



OPTION 1 (CUT AND FILL)

OPTION 2 (FILL ONLY)

NOTES:

1. WATER BARS SHALL BE USED ON ACCESS ROADS. REFER TO TABLE FOR SPACING RECOMMENDATIONS ON SPECIFIC ROAD SLOPES.
2. WATER BARS COULD BE INSTALLED AFTER ALL OVERSIZED CONSTRUCTION DELIVERIES ARE COMPLETED. IF SUBSTANTIAL LAG TIME (I.E. 90 CALENDAR DAYS) IS ANTICIPATED BETWEEN ROAD CONSTRUCTION AND DELIVERIES, WATER BARS SHALL BE INSTALLED, REMOVED DURING DELIVERIES, IF REQUIRED, AND THEN RECONSTRUCTED DURING RESTORATION PHASE OF THE PROJECT.
3. WATER BARS WILL REQUIRE MAINTENANCE FOLLOWING RAINFALL EVENTS TO ENSURE FUNCTIONALITY. REMOVE SEDIMENT FROM THE FLOW AREA.
4. WATER BARS SHALL BE BUILT AT AN ANGLE OF +/-30° DOWNSLOPE (120° FROM CENTERLINE) AND HAVE A GRADE OF 2-4%.
5. THE HEIGHT FROM FLOW LINE TO THE TOP OF THE SETTLED WATER BAR SHALL BE 8 INCHES MINIMUM.
6. DIVERSIONS SHALL HAVE STABILIZED OUTLETS, EITHER NATURAL OR MANMADE.
7. FLOW PATH SHALL BE STABILIZED WITH CRUSHED ROCK OR AGGREGATE.
8. LOCATIONS OF ACCESS ROAD WATER BARS ARE SUBJECT TO CHANGE BASED ON EROSION LOCATIONS IN THE FIELD.

SPACING RECOMMENDATIONS	
GRADE (%)	SPACING (FT)
0-5	AS REQUIRED
5-10	300
10-15	150
15+	100

Westwood	ACCESS ROAD DIVERSION - WATER BAR	NOT TO SCALE	SW-70

Westwood
Phone (281) 883-0103 20455 State Highway 249, Suite 400
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PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELEHER SOUTH DAKOTA 06/17/26

PREPARED FOR:

Invenergy
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392 County Road 50
Avon, MN 56310

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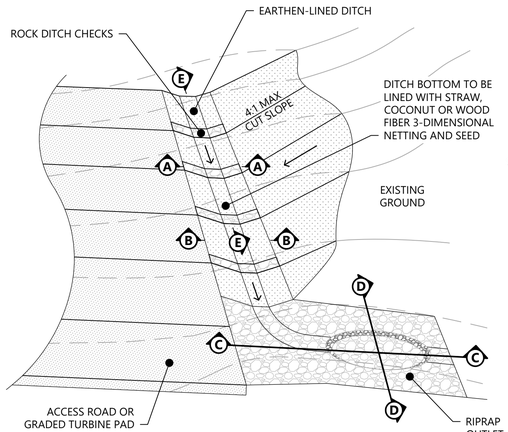
Philip Wind Project
Haakon County, South Dakota

Construction Details

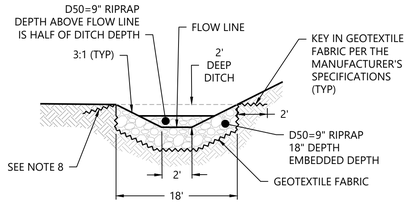
ISSUED FOR PERMIT
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SHEET: C710
REV: B

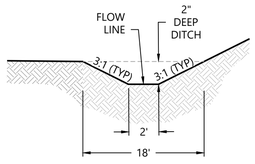
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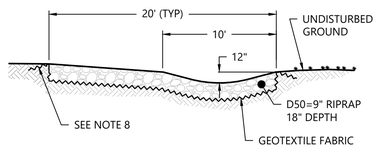
PERSPECTIVE VIEW



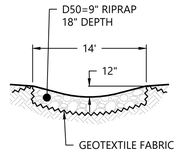
SECTION A-A



SECTION B-B



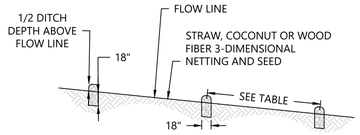
SECTION C-C



SECTION D-D

NOTES:

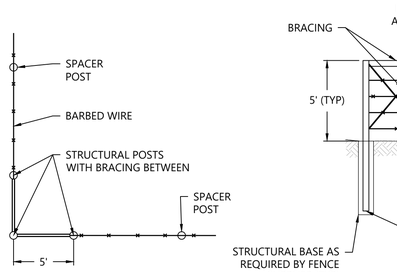
1. REFER TO CONSTRUCTION SPECIFICATIONS AND MATERIAL REQUIREMENTS.
2. SEE PLANS FOR LOCATIONS OF DITCHES AND ROCK DITCH OUTLETS.
3. DISTURBED AREAS SHALL BE SEEDED/STABILIZED PER THE NPDES PERMIT. CONTRACTOR SHALL UTILIZE TEMPORARY EROSION BLANKETS OR EARTH GUARD OR OTHER APPROVED POLYMER STABILIZED FIBER MATTING TO CONTROL EROSION ON DISTURBED AREAS.
4. CRUSHED CONCRETE MAY BE UTILIZED AS RIPRAP.
5. AN APPROVED ALTERNATIVE TO RIPRAP MAY BE UTILIZED DEPENDING ON DITCH SLOPE. CONTACT ENGINEER FOR RECOMMENDATIONS.
6. THE CONTRACTOR SHALL PLACE RIPRAP, PULVERIZED TOPSOIL, SEED AND WOODFIBER BLANKET AS SOON AS POSSIBLE AND IN ACCORDANCE WITH THE NPDES PERMIT.
7. EXTEND RIPRAP OUTLET AS REQUIRED TO PROVIDE STABILIZED PATH TO UNDISTURBED SOIL.
8. FOR ACCESS ROAD SCENARIO, OVERLAP GEOTEXTILE FABRIC UNDER ACCESS ROAD AGGREGATE A MINIMUM 2 FEET.



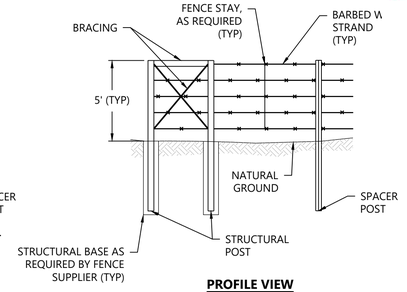
SECTION E-E

SPACING RECOMMENDATIONS	
SLOPE	**DISTANCE**
< 2%	100'
2-5%	50'
5-8%	25'
> 8%	ROCK LINED

Westwood	DITCH - EARTHEN LINED WITH ROCK CHECKS	DN-23
	NOT TO SCALE	



PLAN VIEW

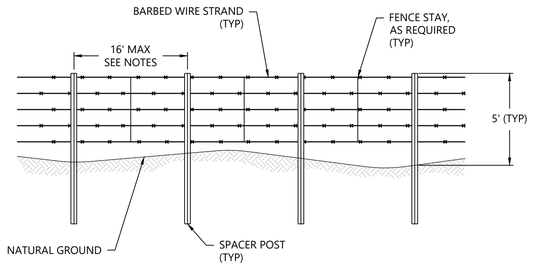


PROFILE VIEW

NOTES:

1. NUMBER OF BARBED WIRE STRANDS, FENCE MATERIAL, AND CONFIGURATION SHALL MATCH EXISTING FENCES OR AS APPROVED BY OWNER.
2. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
3. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
4. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER.
5. STRUCTURAL PLANS AND FENCE SUPPLIER DRAWINGS SHALL SUPERSEDE THIS DETAIL IF CONFLICTS ARE PRESENT.
6. ALL FENCES SHALL BE TIED BACK TO MAINTAIN TENSION ON EXISTING FENCE PRIOR TO CUTTING OF THE EXISTING WIRES.

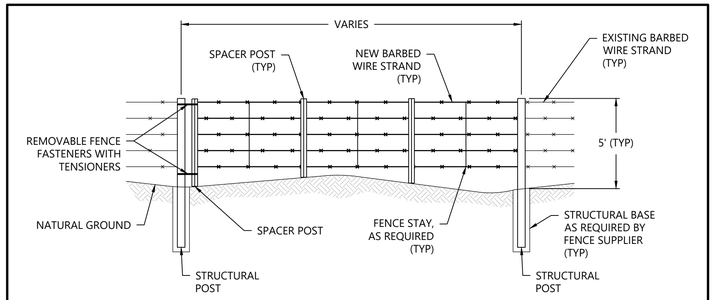
Westwood	BARBED WIRE FENCE CORNER	FN-12
	NOT TO SCALE	



NOTES:

1. NUMBER OF BARBED WIRE STRANDS, FENCE MATERIAL, AND CONFIGURATION SHALL MATCH EXISTING FENCES OR AS APPROVED BY OWNER.
2. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
3. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
4. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER.
5. STRUCTURAL PLANS AND FENCE SUPPLIER DRAWINGS SHALL SUPERSEDE THIS DETAIL IF CONFLICTS ARE PRESENT.
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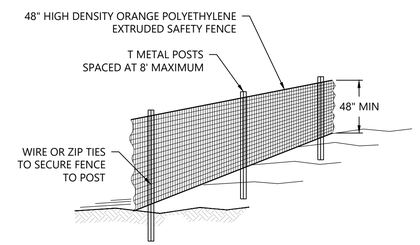
Westwood	PERMANENT BARBED WIRE FENCE	FN-10
	NOT TO SCALE	



NOTES:

1. NUMBER OF BARBED WIRE STRANDS, FENCE MATERIAL, AND CONFIGURATION SHALL MATCH EXISTING FENCES OR AS APPROVED BY OWNER.
2. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
3. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
4. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER.
5. STRUCTURAL PLANS AND FENCE SUPPLIER DRAWINGS SHALL SUPERSEDE THIS DETAIL IF CONFLICTS ARE PRESENT.
6. ALL FENCES SHALL BE TIED BACK TO MAINTAIN TENSION ON EXISTING FENCE PRIOR TO CUTTING OF THE EXISTING WIRES. TENSION SHALL NOT BE COMPROMISED. BRACING MAY BE REQUIRED FOR PERMANENT GATE APPLICATIONS.

Westwood	BARBED WIRE GATE	FN-13
	NOT TO SCALE	



NOTES:

1. INSTALL FENCE AROUND PROTECTED AREAS PRIOR TO CONSTRUCTION ACTIVITIES IN THE VICINITY.
2. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN; ANY CHANGE TO FENCE SHALL BE APPROVED.
3. CULTURALLY SENSITIVE AREAS SHALL NOT BE DISTURBED DURING SAFETY FENCE INSTALLATION/REMOVAL.
4. FOR TREE PRESERVATION PURPOSES, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
5. FENCE SHOULD BE TAUT AND FASTENED SECURELY TO THE POSTS.
6. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION, AND REMOVED ONCE CONSTRUCTION ACTIVITIES ARE CONCLUDED.

Westwood	SENSITIVE AREAS - PROTECTION FENCE	FN-52
	NOT TO SCALE	

Westwood
Phone (281) 883-0103 20455 State Highway 249, Suite 400
Toll Free (888) 937-5150 Houston, TX 77070
westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELEHER SOUTH DAKOTA 06/17/26

PREPARED FOR:

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392 County Road 50
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Philip Wind Project

Haakon County, South Dakota

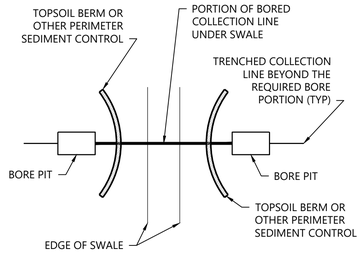
Construction Details

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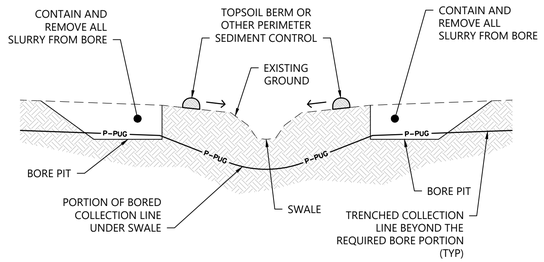
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PLAN VIEW

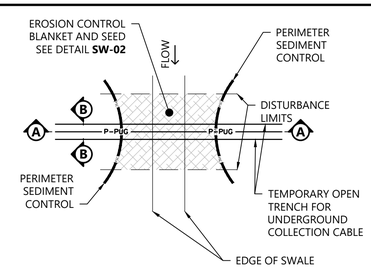


PROFILE VIEW

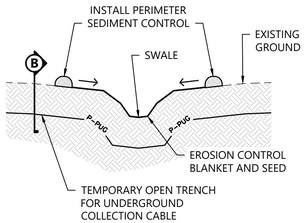
NOTES:

1. AVOID DISTURBANCE TO THE SWALE DURING CONSTRUCTION.
2. REFER TO PROJECT SPCC PLAN FOR ADDITIONAL REQUIREMENTS.
3. CONSTRUCT TOPSOIL BERM TO PROTECT EXISTING SWALE WHERE BORING WILL OCCUR FOR UNDERGROUND COLLECTION SYSTEM INSTALLATION.
4. ADDITIONAL SOILS SHALL BE STOCKPILED ADJACENT TO THE BORE PIT AND PROTECTED WITH PERIMETER SEDIMENT CONTROL.
5. ALTERNATE PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, OR WOOD MULCH BERMS. REFER TO APPROPRIATE DETAILS FOR INSTALLATION REQUIREMENTS.
6. REDUNDANT PERIMETER SEDIMENT CONTROLS ARE REQUIRED WITHIN 50' OF A WETLAND OR SURFACE WATER.
7. UPON REMOVAL OF THE BORE PITS, THE DISTURBED AREAS SHALL BE RESTORED TO NATIVE CONDITIONS. REFER TO THE NPDES PERMIT.

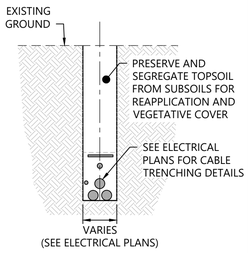
Westwood	POWER COLLECTION SYSTEM CROSSING OF EXISTING SWALE - BORE PIT	SW-65
	NOT TO SCALE	



PLAN VIEW



SECTION A-A

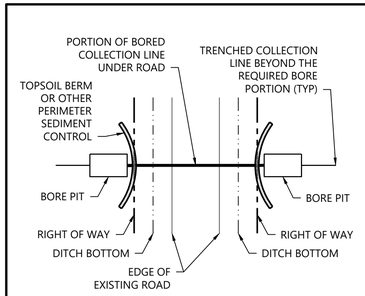


SECTION B-B

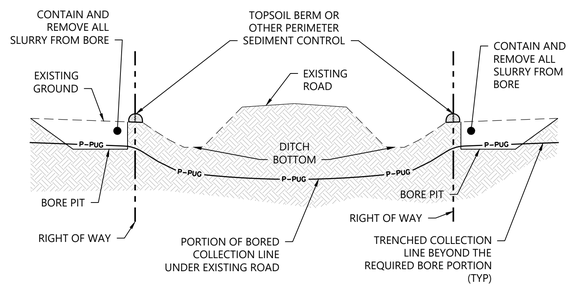
NOTES:

1. MINIMIZE DISTURBANCE TO THE SWALE DURING CONSTRUCTION.
2. REFER TO PROJECT SPCC PLAN FOR ADDITIONAL REQUIREMENTS.
3. SOILS SHALL BE STOCKPILED ADJACENT TO THE TRENCH, OUTSIDE OF THE SWALE AREA, AND PROTECTED WITH PERIMETER SEDIMENT CONTROL.
4. PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO DETAILS FOR INSTALLATION REQUIREMENTS.
5. REDUNDANT PERIMETER SEDIMENT CONTROLS ARE REQUIRED WITHIN 50' OF A WETLAND OR SURFACE WATER.
6. TRENCHING, CABLING, BACKFILL OF TRENCH, AND PLACEMENT OF EROSION CONTROL BLANKET AND SEED SHALL BE SAME DAY WITHIN CHANNEL FROM TOP OF BANK TO TOP OF BANK.
7. CONTRACTOR SHALL SCHEDULE OPEN TRENCHING DURING DRY CONDITIONS AND FORECASTED DRY PERIOD. EROSION AND SEDIMENT CONTROL BMPS MUST BE STOCKPILED ON SITE AND AVAILABLE FOR APPLICATION UPON WORK STARTING.
8. THE DISTURBED AREAS SHALL BE RESTORED TO NATIVE CONDITIONS. REFER TO THE NPDES PERMIT.

Westwood	POWER COLLECTION SYSTEM CROSSING OF EXISTING SWALE - OPEN TRENCH	SW-66
	NOT TO SCALE	



PLAN VIEW



PROFILE VIEW

NOTES:

1. AVOID DISTURBANCE WITHIN THE RIGHT OF WAY, DITCH AND EXISTING ROAD AREAS.
2. REFER TO PROJECT SPCC PLAN FOR ADDITIONAL REQUIREMENTS.
3. CONSTRUCT TOPSOIL BERM TO PROTECT EXISTING SWALE WHERE BORING WILL OCCUR FOR UNDERGROUND COLLECTION SYSTEM INSTALLATION.
4. ADDITIONAL SOILS SHALL BE STOCKPILED ADJACENT TO THE BORE PIT AND PROTECTED WITH PERIMETER SEDIMENT CONTROL.
5. ALTERNATE PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, OR WOOD MULCH BERMS. REFER TO APPROPRIATE DETAILS FOR INSTALLATION REQUIREMENTS.
6. REDUNDANT PERIMETER SEDIMENT CONTROLS ARE REQUIRED WITHIN 50' OF A WETLAND OR SURFACE WATER.
7. UPON REMOVAL OF THE BORE PITS, THE DISTURBED AREAS SHALL BE RESTORED TO NATIVE CONDITIONS. REFER TO THE NPDES PERMIT.

Westwood	POWER COLLECTION SYSTEM CROSSING OF EXISTING ROAD - BORE PIT	SW-67
	NOT TO SCALE	

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SOUTH DAKOTA
06/17/26

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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project

Haakon County, South Dakota

Construction Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026

SHEET: C712

REV: B

ROAD DESIGN PARAMETERS

1. THE ROAD HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME CONSTRUCTION LOADS.
2. ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY.

EARTHWORK

1. GENERAL
   a. THIS SECTION DESCRIBES WORK RELATED TO EARTHWORK AND MAY INCLUDE CLEARING AND GRUBBING, EXCAVATIONS, SUBGRADE, AGGREGATE PLACEMENT, GENERAL FILL, STABILIZATION, ANY ASSOCIATED INSPECTIONS AND TESTING OF EARTHWORK, AND ALL OTHER WORK NECESSARY TO COMPLETE EARTHWORK FOR THE PROJECT.
   b. THIS SECTION DOES NOT ADDRESS EARTHWORK ASSOCIATED WITH FOUNDATIONS, REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION RELATED WORK.

2. SUBMITTALS
   a. THE FOLLOWING MATERIAL SUBMITTALS ARE REQUIRED FOR REVIEW BY THE CIVIL ENGINEER OF RECORD (EOR) PER SPECIFIC PRODUCT AND PRE-PLACEMENT:
      a.1. ON-SITE BORROW SOURCE
      a.2. IMPORTED FILL MATERIAL
      a.3. AGGREGATE
      a.4. RIPRAP
      a.5. GEOSYNTHETIC FABRIC
      a.6. CULVERTS
      a.7. LOW WATER CROSSINGS
   b. EROSION AND SEDIMENT CONTROL (BMP) PRODUCT SUBMITTALS ARE NOT REQUIRED. REFER TO THE NPDES PERMIT FOR INFORMATION.
   c. REFER TO TABLE 1 FOR REQUIRED TESTS FOR EACH SUBMITTAL.

3. MATERIALS
   a. GENERAL FILL
      a.1. PER RRC POWER & ENERGY GEOTECH REPORT, DATED 12-02-2025 GENERAL FILL MATERIAL SHALL CONSIST OF NATIVE CLAY AND SAND SOILS WITH A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX LESS THAN 15.
      a.2. GENERAL FILL SHALL BE USED FOR MASS GRADING ASSOCIATED WITH EMBANKMENTS, TURBINE PADS, ACCESS ROADS, SPUR ROADS, INTERSECTION IMPROVEMENTS, SUBSTATION AREA, O&M, AND LAYDOWN AREA.
   b. AGGREGATE MATERIAL
      b.1. AGGREGATE MATERIAL SHALL CONSIST OF SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION, SECTION 882.2, TABLE 1, AGGREGATE BASE OR BETTER . SEE TABLE 2 FOR GRADATION AND ADDITIONAL INFORMATION.
      b.2. AGGREGATE MATERIAL SHALL BE USED FOR ACCESS ROADS, SPUR ROADS, INTERSECTION IMPROVEMENTS, SUBSTATION AREA, LAYDOWNS, O&M AND AGGREGATE RINGS.
   c. GEOTEXTILE
      c.1. ROAD APPLICATIONS
         c.1.1. GEOTEXTILE SHALL CONSIST OF MIRAFI HP 570 GEOTEXTILE FABRIC OR CIVIL ENGINEER APPROVED EQUAL.
         c.1.2. GEOTEXTILE SHALL BE USED FOR ACCESS ROADS WHERE EXCESSIVE PUMPING IS OBSERVED.
      c.2. DRAINAGE APPLICATIONS
         c.2.1. GEOTEXTILE SHALL CONSIST OF MIRAFI 140N GEOTEXTILE FABRIC OR CIVIL ENGINEER APPROVED EQUAL.
         c.2.2. GEOTEXTILE SHALL BE USED FOR RIPRAP AREAS AND AS SHOWN ON THE DRAWINGS.
   d. RIPRAP

RIRRAP SHALL CONSIST OF ROCK THAT MEETS D50 REQUIREMENTS SPECIFIED IN THE PLANS. D50 SHALL BE MEASURED BY TAKING A REPRESENTATIVE SAMPLE OF THE RIPRAP MATERIAL AND MEASURING 100 STONES IN THE 3 GENERAL DIMENSIONS OF LENGTH, WIDTH, AND THICKNESS. THE AVERAGE INTERMEDIATE DIMENSION SHALL BE EQUAL TO THE D50 VALUE OR GREATER. INTERMEDIATE DIMENSION IS DEFINED AS THE LONGEST, STRAIGHT-LINE DISTANCE ACROSS THE ROCK THAT IS PERPENDICULAR TO THE LONGEST AXIS ON THE FACE OF THE ROCK WITH THE LARGEST PROJECTION PLANE. FOR THE IDEALIZED ROCK PARTICLE SHOWN IN FIGURE 1, THIS WOULD BE DIMENSION 'B'. REFERENCE FLH DESIGNATION T 521-13 "DETERMINING RIPRAP GRADATION BY WOLMAN COUNT" FOR FURTHER INFORMATION.

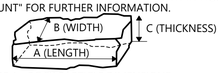


FIGURE 1 - ROCK PARTICLE DIMENSIONS

   d.1. RIPRAP SHALL BE USED FOR CULVERT ENDS, STILLING BASINS, DRAINAGE SWALES, PROTECTED ROAD CROSSINGS, BRIDGING WET SOILS, AND AS SHOWN ON THE DRAWINGS
   e. CULVERTS
      e.1. CULVERT INSTALLATION SHALL CONFORM TO MANUFACTURER RECOMMENDATIONS BASED ON MATERIALS, INSTALLATION METHODS, SIZE, AND ANTICIPATED LOADINGS.
      e.2. CULVERTS SHALL HAVE NO END TREATMENTS UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION
      e.3. CULVERTS MAY BE CORRUGATED METAL PIPES (CMP) OR HIGH-DENSITY POLYETHYLENE (HDPE) PIPES, UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
      e.4. CMP DIAMETERS 36" AND SMALLER SHALL BE MINIMUM 16-GAUGE.
      e.5. CMP DIAMETERS 42" AND LARGER SHALL BE MINIMUM 12-GAUGE.
      e.6. CMP MINIMUM COVER SHALL BE 12" MEASURED FROM TOP OF CULVERT TO BOTTOM OF GRAVEL PAVEMENT.
      e.7. HDPE CULVERTS SHALL BE DUAL-WALL TYPE.
      e.8. HDPE DIAMETERS 36" AND SMALLER SHALL HAVE A MINIMUM COVER OF 18" MEASURED FROM TOP OF CULVERT TO BOTTOM OF GRAVEL PAVEMENT.
      e.9. HDPE DIAMETERS 42" AND LARGER SHALL HAVE A MINIMUM COVER OF 24" MEASURED FROM TOP OF CULVERT TO BOTTOM OF GRAVEL PAVEMENT.

4. CONSTRUCTION
   a. CLEARING AND GRUBBING
      a.1. THE CONTRACTOR SHALL BE REQUIRED 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 OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED. TREE CLEARING IS NOT ALLOWED BETWEEN MARCH 15 AND OCTOBER 15.
   b. EXCAVATIONS
      b.1. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS AT A MINIMUM DEPTH OF ±3 INCHES.
      b.2. TOPSOIL SHALL BE STRIPPED, TO THE DEPTH OF THE TOPSOIL, FROM ALL AREAS WITH SUBSOIL CUT/FILL (MASS-GRADING).
      b.3. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED DISTURBANCE AREAS.
      b.4. ANY TOPSOIL THAT HAS BEEN STRIPPED SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS, AS DIRECTED BY THE CIVIL ENGINEER. ALL TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM. SEEDING AND MULCHING TO BE UNDER THE DIRECTION OF THE PROPERTY OWNER.
   c. SUBGRADE
      c.1. SUBGRADE SOIL BELOW FILL SHALL BE COMPACTED AND PROOF-ROLLED IN ACCORDANCE WITH TABLE 1.
      c.2. FOR CEMENT STABILIZED SUBGRADES, REFER TO ACCESS ROAD CEMENT STABILIZATION SECTION ON SHEET C714.
   d. GENERAL FILL
      d.1. FILL MAY BE PLACED ABOVE GRADE AFTER TOPSOIL STRIPPING, IN LOOSE LIFTS NOT EXCEEDING 12 INCHES, AND COMPACTED IN ACCORDANCE WITH TABLE 1.
      d.2. SIDE SLOPES GREATER THAN 3:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.
   e. AGGREGATE PLACEMENT
      e.1. SUBSEQUENT TO THE SUBGRADE PREPARATION, THE AGGREGATE BASE SHALL BE PLACED, COMPACTED, AND TESTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 1.
   f. SEEDING, MULCHING, AND STABILIZATION
      f.1. PRIOR TO FINAL STABILIZATION, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
      f.2. FOLLOWING ROUGH GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS IN NON-STRUCTURAL AREAS.
      f.3. ALL DISTURBED AREAS SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE NPDES PERMIT.

5. INSPECTIONS AND TESTING
   a. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY
   b. TESTING AND INSPECTION RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE ACCESSIBLE TO THE CIVIL EOR AT THEIR REQUEST
      b.1. THE CIVIL ENGINEER MAY REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE CIVIL ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
   c. REFER TO TABLE 1 FOR PROJECT TESTING SPECIFICATIONS
   d. PROOF ROLLING: PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE.
      d.1. UNSTABILIZED SUBGRADE AND AGGREGATE BASE (IN ACCORDANCE WITH TABLE 1) SHALL BE PROOF ROLLED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 20 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING.

TABLE 1: MATERIAL TESTING SCHEDULE

	Location	Required Test	ASTM Standard	Frequency	Specified Criteria
Subgrade (Non-Cement Stabilized)	Access Roads ADLS Tower Roads Substation Area Laydown Area O&M	Standard Proctor	ASTM D-698	1 per soil type as determined by independent testing agency	N/A
		Nuclear Density	ASTM D-6938	Roads: 1 test per 2,500 LF (minimum 1 per road) Areas: 1 test per 5,000 SF (minimum 1 per area)	95% of Standard Proctor Maximum Dry Density +/- 3% of Optimum Moisture Content
		Proof Roll	N/A	Entire Length / Area	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See testing requirements for additional information.
	Temporary Roads Intersection Improvements Spur Roads [2] Turbine Pads (Staging Areas)	Proof Roll	N/A	Entire Length / Area	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See testing requirements for additional information.
	Crane Walks[1] Crane Pads[1]	EXCLUDED [1]	EXCLUDED [1]	EXCLUDED [1]	EXCLUDED [1]
General Fill (for Mass Grading)	Source (On -Site Borrow) (Imported Fill) (Common Excavation)	Standard Proctor	ASTM D-698	1 per soil type/source as determined by independent testing agency	N/A
		Moisture Content	ASTM D-2216		
		Atterberg Limits	ASTM D-4318		LL < 40 and PI < 15
	Embankments Turbine Pads (Staging Areas) Access Roads Intersection Improvements Substation Area Laydown Area O&M	Nuclear Density	ASTM D-6938	1 test per 5,000 SF per lift 1 test per 30,000 SF per lift (Turbine Pads only)	95% of Standard Proctor Maximum Dry Density +/- 3% of Optimum Moisture Content
		Proof Roll	N/A	Entire Length / Area (Final Surface)	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See earthwork specifications for additional information.
Aggregate Material	Quarry Testing (Pre-Placement)	Grain Size Analysis	ASTM C-136	Per source from quarry. Sample from site every 10,000CY.	See Table 2
		Atterberg Limits	ASTM D-4318		See Table 2
		Los Angeles Abrasion	ASTM C-131 or AASHTO T-96		See Table 2
	Access Roads Substation (Base Aggregate Only) Laydown Area O&M Intersection Improvements	Proof Roll	N/A	Entire Length / Area	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See earthwork specifications for additional information.

[1] Structural design, recommendations, and testing for crane walks and crane pads is excluded from the engineering design contained within these plans. Refer to the geotechnical report, project specific crane walk/pad structural design (if available), geotechnical engineer, and/or contractor for specific information.

[2] Observation of the proof roll testing of spur roads may be performed by qualified contractor personnel.

TABLE 2: SDDDOT AGGREGATE BASE SPEC

SIEVE SIZE	PERCENT PASSING
1"	100
3/4"	80-100
#4	46-70
#8	34-58
#50	13-35
#200	3-12
LIQUID LIMIT (MAX) = 25 PLASTICITY (MAX) = 0-6 LA ABRASION (% MAX) = 40%	

GENERAL NOTES

1. CONSTRUCTION PLANS ARE BASED OFF THE COORDINATE SYSTEM SOUTH DAKOTA STATE PLANE COORDINATE SYSTEM, NAD 1983(2011), SOUTH ZONE, US SURVEY FOOT NAVD88, GEOID 18.
2. SITE DRAINAGE INFRASTRUCTURE INCLUDING SWALES, ACCESS ROAD SWALE CROSSINGS, AND OUTLET FEATURES ARE SIZED FOR A 10 YEAR 24HR RAIN EVENT, 3.26 INCHES PER NOAA ATLAS 14, VOLUME 8, VERSION 2.
3. THE ALTA SURVEY AND EXISTING PLANIMETRIC DATA IS FROM WESTWOOD SURVEYING & ENGINEERING, P.C, DATED 11/26/2025.
4. THE ELEVATIONS AND CONTOURS SHOWN ON THESE CONSTRUCTION DRAWINGS WERE PREPARED FROM A COMBINATION OF ACTUAL FIELD SURVEYING AND AERIAL PHOTOGRAPHY DATA. THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER WHEN THEY FIND THAT GROUND ELEVATIONS DETERMINED DURING FIELD STAKING VARY FROM THE GROUND ELEVATIONS SHOWN ON THE DRAWINGS FOR POTENTIAL DESIGN MODIFICATIONS.
5. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL DRAINAGE SWALES CAUSING RAINWATER TO POND. IF CULVERTS ARE NEEDED, THE CIVIL ENGINEER MUST BE CONTACTED FOR APPROPRIATE SIZING OF STRUCTURE. WHEN INSTALLING DRAINAGE CROSSINGS, THE CONTRACTOR SHALL USE JUDGMENT IN SETTING THE FLOW LINE ELEVATIONS TO PROVIDE POSITIVE DRAINAGE. WHEN POSSIBLE, ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE.
7. ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS PRE-EXISTING UNLESS INDICATED FOR REMOVAL.
8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL NOTIFY SOUTH DAKOTA 811 AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
10. ALL CONSTRUCTION PERFORMED SHALL CONFORM WITH THE CURRENT STANDARDS AND SPECIFICATION OF HAAKON COUNTY. WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT SPECIFICATIONS AND THE COUNTY SPECIFICATIONS OR STANDARD, THE CONTRACTOR SHALL ABIDE BY THE GREATER OR MORE RESTRICTIVE REQUIREMENTS.
11. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS, AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE COUNTY/MUNICIPALITY AND CIVIL ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
13. TEMPORARY FEATURES SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION OR UPON NOTIFICATION OF THE CIVIL ENGINEER, BE REMOVED AND THE AREA RESTORED TO APPROXIMATELY ORIGINAL LINES AND GRADES WITH TOPSOIL REPLACED, EXCEPT WHERE REQUESTED BY THE TOWNSHIP OR COUNTY TO PERMANENTLY REMAIN.
14. ELECTRICAL INFORMATION SHOWN ON THE PLANS IS FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC LOCATIONS AND CONSTRUCTION DETAILS.
15. GEOTECHNICAL REPORTS WITH RECOMMENDATIONS HAVE BEEN PROVIDED BY THE OWNER.
16. WETLAND INFORMATION HAS BEEN PROVIDED BY THE OWNER. ALL WETLAND DELINEATIONS AND PERMITTING SHALL BE THE RESPONSIBILITY OF OTHERS. THE OWNER AND CONTRACTOR SHALL VERIFY THAT ALL WETLAND PERMITS HAVE BEEN SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.
17. CULTURAL RESOURCE INFORMATION HAS BEEN PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT AND REVIEW ALL RECOMMENDATIONS.
18. AN ENVIRONMENTAL ASSESSMENT HAS BEEN PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT AND REVIEW ALL RECOMMENDATIONS.
19. WILDLIFE REPORT(S) HAVE BEEN PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT(S) AND REVIEW ALL RECOMMENDATIONS.
20. TURBINE SETBACKS ARE NOT IDENTIFIED ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE ALL TURBINE SETBACKS MEET PROJECT REQUIREMENTS.

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Philip Wind Project
Haakon County, South Dakota

Construction Notes

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DATE: 05/07/2026
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South Dakota 811 Know what's below. Call before you dig.

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ACCESS ROAD CEMENT STABILIZATION

1. GENERAL

a. THIS SECTION DESCRIBES WORK RELATED TO ACCESS ROAD SUBGRADE SOIL STABILIZED WITH PORTLAND CEMENT. THIS SECTION DOES NOT INCLUDE CEMENT STABILIZATION FOR OTHER PROJECT INFRASTRUCTURE, SUCH AS CRANE WALKS, CRANE PADS, LAYDOWN YARDS, OR SUBGRADE BELOW FOUNDATIONS, UNLESS SPECIFICALLY STATED IN THESE PLANS.

b. IT IS EXPECTED THAT AGGREGATE-SURFACED ACCESS ROADS WILL REQUIRE ONGOING MAINTENANCE DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY TO KEEP THEM IN A SERVICEABLE CONDITION, REGARDLESS OF THE AGGREGATE THICKNESS AND SUBGRADE PREPARATION. IT IS NOT PRACTICAL TO DESIGN AN AGGREGATE SECTION OF ADEQUATE THICKNESS THAT PREVENTS ONGOING MAINTENANCE. RUTS, DEPRESSIONS, AND SOFT SUBGRADE SHOULD BE REPAIRED AS NEEDED TO FACILITATE TRAFFIC. THROUGHOUT THE OPERATIONAL LIFE OF THE PROJECT, ADDITIONAL AGGREGATE MAY BE PLACED IN RUTS AND DEPRESSIONS, OR THE ENTIRE AGGREGATE SECTION AND SOFT SUBGRADE MAY BE REMOVED AND REPLACED WITH A NEW AGGREGATE SECTION.

2. SUBMITTALS

a. SUBMIT A QUALITY CONTROL PLAN TO ENGINEER FOR REVIEW ONLY, PRIOR TO CONSTRUCTION ACTIVITIES. THE PLAN SHOULD INCLUDE THE FOLLOWING ITEMS, AT A MINIMUM:

a.1. QUALIFICATIONS FOR EXPERIENCED PERSONNEL OVERSEEING STABILIZATION
a.2. REPRESENTATIVE MOISTURE-DENSITY RELATIONSHIP (PROCTOR) TESTS
a.3. STABILIZATION DEPTH AND WIDTH
a.4. CEMENT AND MOISTURE APPLICATION RATE MONITORING
a.5. TEMPERATURE MONITORING
a.6. MOISTURE/COMPACTION TESTS
a.7. DYNAMIC CONE PENETROMETER (DCP) TEST EQUIPMENT AND PROCEDURE
a.8. PROOF-ROLL VEHICLE TYPE AND WEIGHT
a.9. SURFACE MOISTURE CONTROL FOR CURING
a.10. CORRECTIVE ACTION PLAN IF SPECIFICATION IS NOT MET

b. SUBMIT A TEST STRIP CONSTRUCTION PLAN, INCLUDING THE FOLLOWING ITEMS, AT A MINIMUM:

b.1. TEST STRIP LOCATIONS AND LENGTHS
b.2. CEMENT APPLICATION RATES
b.3. QUALITY CONTROL PLAN

3. MATERIALS

a. CEMENT: ANY TYPE OF PORTLAND CEMENT THAT COMPLIES WITH ASTM C150 OR C595.

b. WATER: RELATIVELY CLEAN AND FREE FROM HARMFUL AMOUNTS OF ALKALIES, ACIDS, OR ORGANIC MATTER.

c. AGGREGATE: REFER TO CONSTRUCTION NOTES ON SHEET C713.

d. GEOTEXTILE: REFER TO CONSTRUCTION NOTES ON SHEET C713.

4. CONSTRUCTION

a. TEST STRIPS

a.1. AT THE START OF ACCESS ROAD CONSTRUCTION, CONTRACTOR SHALL CONSTRUCT TEST STRIPS, EACH 300 LF, AT A MINIMUM OF THREE DIFFERENT CEMENT CONTENTS CHOSEN BY THE CONTRACTOR (FOR EXAMPLE 5%, 7%, AND 9%). TEST STRIPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS WITHIN THIS SECTION.
a.2. STABILIZATION MAY PROCEED USING THE CEMENT APPLICATION RATE THAT PRODUCES PASSING INSPECTION AND TESTING RESULTS FOR THE TEST STRIP. DO NOT PROCEED WITH STABILIZATION IF THE INSPECTION AND TESTING REQUIREMENTS ARE NOT MET. CONSTRUCT ADDITIONAL TEST STRIPS WITH HIGHER CEMENT APPLICATION RATES UNTIL PASSING INSPECTION AND TESTING REQUIREMENTS.

b. PREPARATION

b.1. STRIP TOPSOIL TO THE DEPTH OF AGGREGATE THICKNESS, OR AS DETERMINED IN THE FIELD, SO THAT FINISHED ROAD GRADE IS LEVEL WITH THE SURROUNDING GRADE. STRIPPING DEPTH MAY NEED TO EXTEND DEEPER TO REMOVE ROOTS/ORGANICS AND ACHIEVE THE REQUIRED CEMENT STABILIZED SUBGRADE STRENGTH. ROOTS SMALLER THAN 1/2 INCH DIAMETER ARE ACCEPTABLE.
b.2. SHAPE SUBGRADE TO THE PROPER WIDTH AND GRADE.
b.3. THE CONSTRUCTION MATERIALS TESTING COMPANY SHALL EVALUATE SUBGRADE MATERIAL TO DETERMINE IF A REPRESENTATIVE MOISTURE-DENSITY RELATIONSHIP (PROCTOR) TEST EXISTS, AND IF NOT A NEW PROCTOR TEST SHALL BE PERFORMED.
b.4. DETERMINE THE IN-SITU MOISTURE CONTENT OF THE SUBGRADE SHORTLY BEFORE SPREADING CEMENT USING A NUCLEAR DENSITY GAUGE OR OTHER SUITABLE DEVICE. PERFORM ADDITIONAL MOISTURE CONTENT CHECKS IF WEATHER CONDITIONS OR SOIL CONDITIONS CHANGE. SEE BEST PRACTICES FOR SUBGRADE MOISTURE RECOMMENDATIONS.
b.5. DO NOT STABILIZE SUBGRADE THAT IS FROZEN. REFER TO BEST PRACTICES FOR ADDITIONAL TEMPERATURE RECOMMENDATIONS.

c. SPREADING CEMENT

c.1. APPLY CEMENT AT A RATE THAT ENSURES THE WEIGHT SPREAD IS WITHIN 10% OF THE DESIRED AMOUNT. FURNISH A SQUARE-YARD CLOTH, SCALES, WEIGHT TICKETS, AND/OR PERSONNEL TO CHECK THE SPREAD RATE OF CEMENT PLACED.
c.2. UNIFORMLY SPREAD CEMENT TO THE FULL WIDTH OF THE AREA TO BE COVERED.
c.3. CEMENT APPLICATION RATE MAY NEED TO BE ADJUSTED THROUGHOUT CONSTRUCTION TO ACHIEVE DESIRED RESULTS BASED ON FIELD CONDITIONS.

d. MIXING

d.1. BEGIN MIXING AS SOON AS PRACTICAL AFTER THE CEMENT IS SPREAD, AND CONTINUE UNTIL A HOMOGENEOUS AND UNIFORM MIXTURE IS PRODUCED TO THE DEPTH AND WIDTH SPECIFIED IN THE DESIGN DOCUMENTS.
d.2. MIX AT A SPEED THAT ENSURES A UNIFORM MIXTURE OF SOIL, CEMENT, AND WATER.
d.3. PULVERIZE SUBGRADE DURING MIXING PROCESS TO AVOID LARGE CLODS OF SOIL. REFER TO BEST PRACTICES FOR RECOMMENDATIONS.
d.4. APPLY WATER THROUGH A METERING DEVICE SUCH AS THE RECLAIMER TO UNIFORMLY DISTRIBUTE THE PROPER AMOUNT OF WATER. SEE BEST PRACTICES FOR SUBGRADE MOISTURE RECOMMENDATIONS.
d.5. IF STABILIZATION HALTS AND NEEDS TO BE RESUMED AT A LATER TIME, CONSTRUCTION JOINTS SHALL BE FORMED BY CUTTING BACK INTO THE COMPLETED WORK A MINIMUM OF 2 FEET.

e. COMPACTION AND FINISHING

e.1. BEGIN COMPACTION IMMEDIATELY AFTER SOIL, CEMENT, AND WATER HAVE BEEN MIXED, TYPICALLY WITHIN 45 MINUTES OF MIXING. COMPLETE COMPACTION WITHIN 2 HOURS.
e.2. COMPACT THE STABILIZED SUBGRADE TO THE SPECIFICATIONS PRESENTED IN **TABLE CS2** AND UNTIL NO EVIDENCE OF FURTHER COMPACTION IS OBSERVED.
e.3. COMPACTION SHALL BE PERFORMED WITH MULTIPLE PASSES OF A SHEEP FOOT OR TAMPING ROLLER (FOR FINE-GRAINED SOIL), AND FINISHED BY A SMOOTH DRUM ROLLER TO SET THE FINAL ROAD PROFILE.
e.4. PLACE AGGREGATE ON STABILIZED SUBGRADE AFTER PASSING THE PROOF-ROLL AND DCP TESTING SPECIFICATIONS IN THE INSPECTION AND TEST NOTES ON THIS SHEET. REFER TO ACCESS ROAD CROSS SECTION DETAILS IN THE CONSTRUCTION DETAILS FOR AGGREGATE THICKNESS AND WIDTH. AGGREGATE THICKNESS APPLIES TO THE BEGINNING OF CONSTRUCTION. ADDITIONAL AGGREGATE MAY BE REQUIRED AT THE END OF CONSTRUCTION DUE TO AGGREGATE LOSS FROM ROAD USE, IF REQUIRED BY OWNER SPECIFICATIONS.

5. INSPECTION AND TESTING

a. REFER TO **TABLE CS1** AND **TABLE CS2** FOR TESTING SPECIFICATIONS.

b. ONCE THE MINIMUM REQUIRED CBR IS ACHIEVED AT OR BEFORE THE CORRESPONDING TIME PERIOD SHOWN IN **TABLE CS1**, BUT NO SOONER THAN 24 HOURS AFTER COMPACTION, THE CONTRACTOR MAY PROCEED WITH PROOF-ROLL TESTING. FUTURE DCP TESTING ON THAT SEGMENT OF SUBGRADE IS NOT REQUIRED.

c. IF DCP TESTING SPECIFICATIONS ARE NOT MET WITHIN 7 DAYS, ADDITIONAL TESTS MAY BE PERFORMED AT A LATER DATE (E.G., 14 DAYS), THE SECTION MAY BE RE-STABILIZED WITH ADDITIONAL CEMENT, OR ADDITIONAL AGGREGATE SURFACE AND/OR THE ADDITION OF GEOTEXTILE MAY BE REQUIRED. REFER TO **TABLE CS3** FOR ALTERNATE ACCESS ROAD SECTIONS, OR CONTACT ENGINEER FOR ADDITIONAL RECOMMENDATIONS. COMPLETE SUBGRADE FAILURE OR EXCESSIVE RUTTING MAY OCCUR IF NO REMEDIAL ACTION IS TAKEN.

d. PROOF-ROLLING SHALL BE PERFORMED PRIOR TO PLACING AGGREGATE AND IN THE PRESENCE OF A QUALIFIED GEOTECHNICAL REPRESENTATIVE. REFER TO **TABLE CS2** AND CONSTRUCTION NOTES ON SHEET C713FOR PROOF-ROLL TESTING AND EQUIPMENT SPECIFICATIONS.

e. PROOF-ROLLING SHALL BE PERFORMED WITH A MINIMUM OF TWO PASSES BUT NOT WITHIN 12 INCHES OF THE EDGE OF THE STABILIZED SECTION.

f. IF PROOF-ROLLS FAIL, TEST THE FAILED AREA WITH DCP AND USE AN ALTERNATE ROAD SECTION ACCORDING TO **TABLE CS3**, OR CONTACT ENGINEER FOR RECOMMENDATIONS.

g. REFER TO THE CONSTRUCTION NOTES ON SHEET C713FOR AGGREGATE PLACEMENT, INSPECTION, AND TESTING SPECIFICATIONS.

BEST PRACTICES FOR CEMENT STABILIZATION

THE FOLLOWING RECOMMENDATIONS SHOULD BE CONSIDERED FOR BEST RESULTS:

1. WELL BEFORE CONSTRUCTION BEGINS, LABORATORY TESTS MAY BE PERFORMED ON NATIVE SOIL SAMPLES MIXED WITH VARIOUS AMOUNTS OF CEMENT AND TESTED FOR CBR AND/OR UNCONFINED COMPRESSIVE STRENGTH AT SEVERAL DIFFERENT CURE TIMES TO ASSESS THE FEASIBILITY OF CEMENT STABILIZATION AND ESTIMATED CEMENT APPLICATION RATES FOR TEST STRIPS AND CONSTRUCTION. LABORATORY TESTS ARE ESPECIALLY RECOMMENDED IF HIGH PLASTICITY CLAY, WET, AND/OR ORGANIC SOIL IS ANTICIPATED.
2. IT IS NOT RECOMMENDED TO MIX SOIL AND CEMENT IF AIR TEMPERATURES ARE PROJECTED TO BE BELOW 40 DEGREES FOR THE NEXT 3 DAYS OR BELOW 32 DEGREES FOR THE NEXT 7 DAYS. CONSULT ENGINEER PRIOR TO MIXING IF COLD TEMPERATURES ARE EXPECTED.
3. PROVIDE SUFFICIENT EQUIPMENT IN GOOD WORKING CONDITION TO ALLOW FOR CONTINUOUS AND UNIFORM BLENDING AND COMPACTION OF THE SUBGRADE. DISKING IS NOT AN ADEQUATE BLENDING METHOD. OPERATE EQUIPMENT SO THAT IT DOES NOT DISPLACE CEMENT SPREAD ON SUBGRADE SURFACE.
4. SUBGRADE SOIL SHOULD BE MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT PRIOR TO SPREADING CEMENT. REFER TO **TABLE CS4** FOR MOISTURE CONTENT ADJUSTMENT RECOMMENDATIONS. CONTACT ENGINEER IF MOISTURE CONDITIONING TO NEAR OPTIMUM IS NOT FEASIBLE.
5. PULVERIZE SUBGRADE DURING MIXING PROCESS UNTIL 100 PERCENT OF THE MATERIAL PASSES THROUGH A 1.5 INCH SIEVE AND AT LEAST 80 PERCENT OF THE MATERIAL, EXCLUDING GRAVEL, PASSES THROUGH THE NO. 4 (4.75 MM) SIEVE.
6. THE SURFACE OF THE STABILIZED SUBGRADE SHOULD BE MAINTAINED FOR THE FIRST WEEK FOLLOWING STABILIZATION TO PREVENT MOISTURE LOSS AFTER SHAPING AND COMPACTING TO ENSURE THAT CEMENT CAN FULLY HYDRATE. INADEQUATE MOISTURE AVAILABILITY WILL LOWER THE LONG TERM STRENGTH.
7. STABILIZE SUBGRADE 1 TO 2 FEET WIDER THAN THE PROPOSED AGGREGATE SURFACE ROAD WIDTH TO PROVIDE ADEQUATE STRENGTH FOR THE FULL ROAD WIDTH.

TABLE CS1 - CEMENT STABILIZED SUBGRADE CRITERIA

DAYS ELAPSED BETWEEN COMPACTION AND DCP TEST (1)	MINIMUM CBR	MINIMUM DCP (BLOWS/4")	MINIMUM UNCONFINED COMPRESSIVE STRENGTH (2) (PSI)	ALLOWABLE BEARING CAPACITY (3) (PSF)
3	20	9	90	5,500
7	30	13	135	7,900
14	40	17	180	10,200
28	50	21	225	12,500

NOTES:
(1) DCP TESTS MAY BE PERFORMED SOONER BUT MUST MEET THE MINIMUM CBR/DCP TEST CRITERIA FOR THE NEXT TIME INCREMENT.
(2) UNCONFINED COMPRESSIVE STRENGTH BASED ON CORRELATIONS TO CBR, FOR REFERENCE ONLY UNLESS STATED OTHERWISE IN THESE SPECIFICATIONS.
(3) ALLOWABLE BEARING CAPACITY BELOW A TIRE AT THE SURFACE OF 4" OF GRAVEL LAYER, INCLUDES A SAFETY FACTOR OF 1.5 AND ASSUMES AN UNSTABILIZED SUBGRADE CBR OF 1.5.

TABLE CS2 - CEMENT STABILIZED SUBGRADE TESTING SCHEDULE

LOCATION	TEST	ASTM STANDARD	FREQUENCY	SPECIFIED CRITERIA
CEMENT STABILIZED SUBGRADE (BEFORE CEMENT STABILIZATION)	STANDARD PROCTOR	D698	AS NEEDED	REPRESENTATIVE PROCTORS FOR ALL SUBGRADE MATERIAL ON SITE
	COMPACTION TEST W/ NUCLEAR DENSITY GAUGE	D6938	AS NEEDED (MIN. 1 PER ROAD PER DAY)	NEAR OPTIMUM MOISTURE CONTENT (SEE BEST PRACTICES) NO DENSITY CRITERIA
CEMENT STABILIZED SUBGRADE (TEST STRIPS)	COMPACTION TEST W/ NUCLEAR DENSITY GAUGE	D6938	1 PER 100 LF (MIN. 3 PER TEST STRIP)	95% OF MAXIMUM DRY DENSITY AND NEAR OPTIMUM (SEE BEST PRACTICES)
	DYNAMIC CONE PENETRATION (DCP)	D6951 (17.6 LB HAMMER)	3 PER 100 LF (TEST CENTERLINE AND 2' FROM EACH SHOULDER)	SEE TABLE CS1
	PROOF-ROLL	N/A	ENTIRE LENGTH	NO RUTTING GREATER THAN 3/4" AND NO PUMPING. SEE CONSTRUCTION NOTES FOR PROOF-ROLL EQUIPMENT.
CEMENT STABILIZED SUBGRADE (AFTER CEMENT STABILIZATION)	COMPACTION TEST W/ NUCLEAR DENSITY GAUGE	D6938	1 PER 1,000 LF (MIN. 2 PER ROAD)	95% OF MAXIMUM DRY DENSITY AND NEAR OPTIMUM (SEE BEST PRACTICES)
	PROOF-ROLL	N/A	ENTIRE LENGTH	NO RUTTING GREATER THAN 3/4" AND NO PUMPING. SEE CONSTRUCTION NOTES FOR PROOF-ROLL EQUIPMENT.
AGGREGATE MATERIAL	REFER TO CONSTRUCTION NOTES ON SHEET C713			

TABLE CS3 - ALTERNATE ACCESS ROAD SECTIONS FOR LOCALIZED FAILED AREAS

7 DAY DCP (BLOWS/4")	CBR	FINAL AGGREGATE THICKNESS (IN)
13	≥30	4
9 TO <13	20 TO <30	5
7 TO <9	15 TO <20	6
5 TO <7	10 TO <15	8*
< 5	CONTACT ENGINEER	

* OR 6 INCHES OF AGGREGATE OVER GEOTEXTILE

TABLE CS4 - MOISTURE CONTENT ADJUSTMENTS

MOISTURE CONTENT RELATIVE TO OPTIMUM	RECOMMENDED ADJUSTMENT
DRY	ADD WATER DURING MIXING TO INCREASE MOISTURE TO SLIGHTLY ABOVE OPTIMUM
NEAR (WITHIN ±2%)	NO OR SLIGHT MOISTURE ADJUSTMENTS NEEDED, PENDING PASSING DCP TEST RESULTS
WET	DRY SOIL TO NEAR OPTIMUM PRIOR TO MIXING CEMENT BY SCARIFYING OR PRE-MIXING WITH LIME, AND/OR INCREASE CEMENT CONTENT DURING MIXING

Westwood
Phone (281) 883-0103 20455 State Highway 249, Suite 400
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westwoodps.com
Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER REG. NO. 17360 DAVID KELEHER SOUTH DAKOTA 06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

Construction Notes

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C714 REV: B

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EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES:

REFERENCE INFORMATION

1. CONSTRUCTION STORMWATER AUTHORITY HAVING JURISDICTION: SOUTH DAKOTA DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES
2. CONSTRUCTION STORMWATER GENERAL PERMIT:
   - GENERAL PERMIT AUTHORIZING STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES UNDER THE SOUTH DAKOTA SURFACE WATER DISCHARGE SYSTEM (SDR100000)
   - https://danr.sd.gov/officeofwater/surfacewaterquality/stormwater/StormWaterConstruction.aspx
   - https://danr.sd.gov/officeofwater/surfacewaterquality/docs/DANR_ConstructionGeneralPermit2023.pdf
3. STATE-SPECIFIC BEST MANAGEMENT PRACTICE (BMP) MANUAL AND GUIDANCE:
   - https://dot.sd.gov/media/fd72b11d/Erosionsedicontrolconstman.pdf
   - https://dot.sd.gov/media/684e1776/ESControlSW.pdf
4. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY WESTWOOD FOR ADDITIONAL AND DETAILED INFORMATION.

PERMIT COVERAGE FOR CONSTRUCTION ACTIVITIES

1. CONSTRUCTION GENERAL STORMWATER PERMIT COVERAGE APPLIES TO ALL CONSTRUCTION ACTIVITIES FROM ANY PARTY/CRAFT/SUBCONTRACTOR.
2. CONTRACTOR IS RESPONSIBLE TO IMPLEMENT AND MAINTAIN BMPS AND CONDUCT REGULAR INSPECTIONS DURING ALL CONSTRUCTION WORK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR/PRIMARY OPERATOR IS TO PROVIDE EROSION AND SEDIMENT CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES (BMPS) OUTLINED IN THESE PLANS AND BY THE SOUTH DAKOTA DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES AND BEING IN CONFORMANCE WITH THE GENERAL PERMIT AUTHORIZING STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES UNDER THE SOUTH DAKOTA SURFACE WATER DISCHARGE SYSTEM (SDR100000).
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND PERMITTEE TO MAINTAIN PERMIT COMPLIANCE.
3. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES AND RESTORATION INFORMATION. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL SECTIONS OF THE GENERAL PERMIT SHALL APPLY.
4. THE CONTRACTOR/PRIMARY OPERATOR IS RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY ONSITE AND AS REQUIRED.
5. QUALIFIED, TRAINED, AND KNOWLEDGEABLE PERSONNEL MUST BE PRESENT ON-SITE TO MANAGE THE IMPLEMENTATION OF BMPS, INSPECTIONS, AND COMPLIANCE.
6. ALL CONSTRUCTION CONTRACTORS AND SUBCONTRACTOR PERSONNEL ARE TO BE TRAINED IN THE IMPLEMENTATION AND USE OF THE REQUIRED BMPS AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE. TRAINING DOCUMENTATION SHALL BE MAINTAINED IN THE SWPPP.
7. THE PROJECT SITE IS TO BE MAINTAINED IN SUCH A CONDITION THAT A STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. NON-STORMWATER POLLUTANT DISCHARGES ARE PROHIBITED. PROHIBITED DISCHARGES INCLUDE, BUT ARE NOT LIMITED TO: WASTEWATER FROM WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS, FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING AND MAINTENANCE, AND OTHER HAZARDOUS SUBSTANCES OR WASTES. DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATE FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
8. DISCHARGING CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED.
9. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED.
10. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING IS TO BE CONTAINED ON-SITE AND NOT DISCHARGED TO RECEIVING WATERS OR LOCAL DRAINAGE SYSTEM.
11. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES ARE TO BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR STORMWATER RUNOFF.
12. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS ARE TO BE COLLECTED AND PROPERLY DISPOSED OF IN TRASH OR RECYCLE BINS.
13. REFER TO SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) PLAN FOR SPILL CONTAINMENT AND CLEANUP REQUIREMENTS FOR CONTAMINATED SOILS DUE TO SPILLS.
14. ALL DRAINAGE SWALES, DITCHES, AND AREAS OF CONCENTRATED FLOW DISTURBED DURING CONSTRUCTION ARE TO BE REWORKED AND STABILIZED PRIOR TO NEXT PRECIPITATION EVENT OR WITHIN 24 HOURS, WHICHEVER IS SOONER, IN ACCORDANCE WITH THE SWPPP.
15. MAINTAIN EXISTING DRAINAGE WHEN PLACING STOCKPILES AND WINDROWS TO AVOID FLOODING WORK AREA AND ADJACENT FIELDS.
16. TOPSOIL SHALL BE STRIPPED, SEGREGATED, AND STOCKPILED SEPARATELY FROM SUBSOIL. DO NOT MIX TOPSOIL WITH SUBSOIL.

CONSTRUCTION PHASING/SEQUENCING

1. CONSTRUCTION PHASING AND BEST MANAGEMENT PRACTICES ARE TO BE IMPLEMENTED TO REDUCE SEDIMENT RUNOFF, AND PRESERVE NATURAL RESOURCES.
2. GENERAL SEQUENCING WITHIN EACH PHASE AND WORK AREA: INSTALL PERIMETER SEDIMENT CONTROLS (PSC), CLEAR AND GRUB, STRIP AND STOCKPILE TOPSOIL, MASS GRADING, RESPREAD TOPSOIL, SOIL STABILIZATION, TEMPORARY/PERMANENT EROSION AND SEDIMENT CONTROLS, BMP MAINTENANCE, FINAL STABILIZATION, AND REMOVE PSC. REFER TO THE SWPPP FOR ADDITIONAL INFORMATION.
3. THE CONSTRUCTION SITE IS TO BE MANAGED TO MINIMIZE THE EXPOSURE TIME OF DISTURBED SOIL AREAS THROUGH PHASING AND SCHEDULING OF EARTH DISTURBING ACTIVITIES AND PERSISTENT APPLICATIONS OF TEMPORARY AND PERMANENT SOIL STABILIZATION.
4. AREAS THAT ARE CLEARED, GRADED, OR DISTURBED AT ANY GIVEN TIME SHALL BE LIMITED TO:
   - 4.1. ONLY THE PORTION OF THE SITE THAT IS NECESSARY FOR CONSTRUCTION
   - 4.2. ONLY AN AREA THAT CAN BE EFFECTIVELY CONTROLLED AND MAINTAINED BY THE AVAILABLE PERSONNEL AND MATERIAL.
5. IF POSSIBLE, EARTH DISTURBING ACTIVITIES SHOULD COINCIDE WITH THE DRY SEASON TO MINIMIZE EROSION AND SEDIMENT TRANSPORT.
6. IF THERE IS A CARRYOVER OF STOCKPILED MATERIAL FROM ONE PHASE/REGION TO THE NEXT, POSITION CARRYOVER MATERIAL IN A LOCATION EASILY ACCESSIBLE FOR THE PENDING PHASE THAT WILL NOT REQUIRE DISTURBANCE OF STABILIZED AREAS TO ACCESS THE STOCKPILE.

BMP PHASING/IMPLEMENTATION

1. EROSION AND SEDIMENT CONTROL BMPS, INCLUDING TEMPORARY AND PERMANENT STABILIZATION OF ALL DISTURBANCE, ARE TO BE IMPLEMENTED AS SPECIFIED IN THE SWPPP AND WITHIN THE APPLICABLE TIMEFRAMES OUTLINED IN THE CONSTRUCTION GENERAL PERMIT.
2. ALL PERIMETER SEDIMENT CONTROLS ARE TO BE INSTALLED PRIOR TO ANY UP-GRADIENT EARTH DISTURBING ACTIVITIES.
3. ALL BMPS MUST BE INSPECTED, MAINTAINED, AND REPAIRED TO ENSURE CONTINUOUS FUNCTIONALITY.
4. PERSISTENT APPLICATIONS OF SOIL STABILIZATION TO BE APPLIED TO DISTURBED AREA THROUGHOUT CONSTRUCTION.
5. ALL PERIMETER SEDIMENT CONTROLS SHALL REMAIN IN-PLACE UNTIL UP-GRADIENT FINAL STABILIZATION IS COMPLETE.

INSPECTION SCHEDULE

ROUTINE SWPPP INSPECTIONS ARE TO BE CONDUCTED REGULARLY TO ENSURE COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS AND IDENTIFY ANY POTENTIAL ISSUES AT THE FOLLOWING INTERVALS:

1. ONCE EVERY 7 CALENDAR DAYS; OR
2. ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF PRECIPITATION THAT EXCEEDS 0.25 INCHES OR SNOWMELT THAT GENERATES RUNOFF.
3. ONCE PER MONTH FOR AREAS OF THE SITE THAT MEET FINAL STABILIZATION, OR RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.

STABILIZATION SCHEDULE

1. DEADLINE TO INITIATE STABILIZATION - YOU MUST BEGIN SOIL STABILIZATION MEASURES BY THE FOLLOWING WORKDAY WHENEVER EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE.
   - 1.1. EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED WHEN YOU COMPLETE CLEARING, GRADING, AND EXCAVATION WITHIN ANY AREA OF YOUR SITE THAT WILL NOT INCLUDE PERMANENT STRUCTURES.
   - 1.2. EARTH-DISTURBING ACTIVITIES HAVE TEMPORARILY CEASED WHEN YOU CEASE CLEARING, GRADING, AND EXCAVATION WITHIN ANY AREA FOR A PERIOD OF AT LEAST 14 CALENDAR DAYS BUT WILL RESUME SUCH ACTIVITIES IN THE FUTURE.
2. DEADLINE TO COMPLETE TEMPORARY STABILIZATION - AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER INITIATING SOIL STABILIZATION MEASURES, YOU ARE REQUIRED TO HAVE COMPLETED:
   - 2.1. ALL ACTIVITIES NECESSARY TO INITIALLY SEED OR PLANT THE AREA TO BE STABILIZED FOR VEGETATIVE STABILIZATION PRACTICES.
   - 2.2. THE INSTALLATION OR APPLICATION OF ALL NON-VEGETATIVE MEASURES.
   - 2.3. AS SOON AS PRACTICABLE AFTER SEEDING OR PLANTING, SELECT, DESIGN, AND INSTALL NON-VEGETATIVE EROSION CONTROLS (E.G., MULCH OR ROLLED EROSION CONTROL PRODUCTS) TO PREVENT EROSION ON THE SEEDED OR PLANTED AREAS WHILE VEGETATION ESTABLISHES.
3. TEMPORARY AND PERMANENT SOIL STABILIZATION MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION PROCESSES UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED AND NO FURTHER DISTURBANCE ACTIVITIES ARE PLANNED.

MAINTENANCE SCHEDULE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES AND BMPS SHALL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING CONDITION, INCLUDING REMOVAL OF EXCESS SEDIMENT AND REPLACEMENT AS NECESSARY.
2. EROSION AND SEDIMENT CONTROLS THAT HAVE BEEN INTENTIONALLY DISABLED, RUN-OVER, REMOVED, OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPLACED OR CORRECTED IMMEDIATELY UPON DISCOVERY.
3. MAINTENANCE MUST BE COMPLETED PRIOR TO THE NEXT ANTICIPATED RAINFALL EVENT.
4. MAINTENANCE MUST BE COMPLETED PER THE SCHEDULE SPECIFIED IN THE PROJECT SWPPP.

EROSION AND SEDIMENT CONTROL RECOMMENDED PRACTICES

1. CONTACT ENGINEER FOR ALTERNATIVE RECOMMENDATIONS OR ADDITIONAL DETAILS.
2. REFER TO SHEETS CXXX-CXXX FOR BMP DETAILS AND THE PROJECT SWPPP.
3. SELECT BMP LOCATIONS ARE SHOWN ON THE PLANS. FIELD ADJUSTMENTS, ALTERNATIVES, OR ADDITIONAL BMPS MAY BE IMPLEMENTED TO ALIGN WITH THE CONTRACTOR'S MEANS AND METHODS, FIELD CONDITIONS, INSPECTIONS, AND ACTIVE CONSTRUCTION ACTIVITIES. MULTIPLE APPLICATIONS MAY BE NECESSARY.
4. DUST CONTROL MEASURES ARE TO BE IMPLEMENTED TO MINIMIZE AIRBORNE DUST EMISSIONS AND PROTECT AIR QUALITY.
5. NATIVE/EXISTING VEGETATION AND BUFFERS ARE TO BE PRESERVED AND PROTECTED TO THE EXTENT POSSIBLE AND REVEGETATED AS REQUIRED.
6. PRESERVE 50' BUFFER FOR ALL WETLANDS, STREAMS, WATER BODIES, AND SENSITIVE AREAS. REDUNDANT SEDIMENT CONTROLS ARE REQUIRED WITHIN 50' BUFFER.
7. ALL SOIL STOCKPILES AND WINDROWS SHALL HAVE TEMPORARY EROSION CONTROL MEASURES APPLIED.
8. ALL DISTURBED AREAS DURING CONSTRUCTION ARE TO BE STABILIZED OR RE-STABILIZED FOLLOWING THE ACTIVITIES THAT CAUSED THE DISTURBANCE.

EROSION AND SEDIMENT CONTROL TYPE OR SITUATION	BEST MANAGEMENT PRACTICE (BMP)			DETAIL REFERENCE
GENERAL BEST PRACTICES	DELINEATION OR FENCING OF NO DISTURBANCE AREAS AND SENSITIVE OR PROTECTED FEATURES			FN-52
	LIMIT DISTURBANCE AND PRESERVE EXISTING VEGETATION WHERE FEASIBLE			
NON-STRUCTURAL CONTROLS	CONSTRUCTION PHASING/SEQUENCING			
	AREAS OF PLANNED DISTURBANCE			
	TRAFFIC CONTROL			
SITE ENTRANCE / EXIT	VEHICLE TRACKOUT CONTROL			SW-40
CONSTRUCTION PERIMETER	DELINEATION OR FENCING OF NO DISTURBANCE AREAS AND SENSITIVE OR PROTECTED FEATURES			
	PRESERVE EXISTING VEGETATION AT CONSTRUCTION PERIMETER			
	REDUNDANT SEDIMENT CONTROLS WITHIN 50' OF SENSITIVE OR PROTECTED FEATURES			SW-91
	PERIMETER SEDIMENT CONTROLS (PSC)	SILT FENCE		SW-11
		SEDIMENT CONTROL LOGS *SMALL DRAINAGE AREAS WITH SLOPES <3%*		SW-13
		J-HOOKS *PSC UP/DOWN CONTOURS*		SW-18
		STRUCTURAL OVERFLOW / DRAINAGE OUTLETS *PSC LOW POINTS*		SW-19 OR 21 AND SW-22
DISTURBED SOIL AREAS (SOIL STABILIZATION)	SEEDING TO INCLUDE ANNUAL AND PERENNIAL SEEDS			
	SLOPES ≤ 6%	*STABILIZATION*	ANCHORED STRAW MULCH *WITH SEEDING*	SW-80
	SLOPES 6% ≤ 25%	*STABILIZATION*	ANCHORED STRAW MULCH *WITH SEEDING*	SW-80
		VELOCITY AND SEDIMENT CONTROL	SEDIMENT CONTROL LOGS ON SLOPES *SEE DETAIL FOR SPACING*	SW-05
	SLOPES > 25%	*STABILIZATION*	EROSION CONTROL BLANKET FOR SLOPES *WITH SEEDING*	SW-01
			HYDRAULICALLY APPLIED MATERIAL *WITH SEEDING*	SW-04
		VELOCITY AND SEDIMENT CONTROL	SLOPE TRACKING / ROUGHENING *TEMPORARY CONDITIONS*	SW-03
			SEDIMENT CONTROL LOGS ON SLOPES *SEE DETAIL FOR SPACING*	SW-05
AREAS OF CONCENTRATED FLOW (CHANNEL STABILIZATION)	EXISTING DRAINAGE PATHS AND PROPOSED DITCHES AND BERMS	*STRUCTURAL DRAINAGE FEATURE*	DITCH AND OUTLET	EARTHEN LINED: DN-23 ROCK LINED: DN-22
			BROW BERM	EARTHEN LINED: DN-27 ROCK LINED: DN-28
		STABILIZATION (IF NOT ROCK LINED)	EROSION CONTROL BLANKET FOR CHANNEL *WITH SEEDING*	SW-02
			TURF REINFORCEMENT MAT *WITH SEEDING*	SW-02
		VELOCITY AND SEDIMENT CONTROL	FIBER LOGS IN DITCH *SEE DETAIL FOR SPACING*	SW-06
			ROCK CHECK DAMS *SEE DETAIL FOR SPACING*	SW-31
WTG EXCAVATIONS	TOPSOIL BERM AND PERIMETER SEDIMENT CONTROL			SW-16
LINEAR DISTURBANCE UP/DOWN SLOPES	VELOCITY CHECKS FOR ACCESS ROADS, CRANE OR COLLECTION UP/DOWN SLOPES			SW-07
ACCESS ROADS	GRAVEL SURFACING			
	WATER BARS OR EQUIVALENT *ROAD GRADES > 5%*			SW-70 AND SW-30
DRAINAGE CROSSINGS	TEMPORARY CROSSINGS (CRANE)	CRANE MATS		CR-02
		TEMPORARY CULVERT		CR-03 AND CR-04
	PERMANENT CROSSINGS (ACCESS ROAD)	STANDARD LOW WATER CROSSING		DN-01
		HEAVY DUTY LOW WATER CROSSING		DN-02
		CULVERT		DN-03
		RIPRAP AT CULVERT ENDS		DN-30 AND DN-31
ELECTRICAL COLLECTION	BORINGS			SW-65 AND SW-67
	TRENCH THROUGH DRAINAGE PATH			SW-66
SOIL STOCKPILES	SOIL STOCKPILE PROTECTION			SW-10
CONCRETE WASHOUT	CONCRETE WASHOUT AREA			SW-60

South Dakota 811 Know what's below. Call before you dig.

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Westwood Professional Services, Inc.

PROFESSIONAL ENGINEER
REG. NO. 17360
DAVID KELCHER
SOUTH DAKOTA
06/17/26

PREPARED FOR:
Invenergy
BLATTNER ENERGY
392 County Road 50
Avon, MN 56310

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	02/16/2026	30% CIVIL PLANS	NA	HR	DK
B	05/07/2026	60% CIVIL PLANS	NA	HR	DK

Philip Wind Project
Haakon County, South Dakota

Erosion and Sediment Control

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 05/07/2026
SHEET: C715
REV: B

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