AGENDA
MORGAN COUNTY BOARD OF COUNTY COMMISSIONERS
Assembly Room, Administration Building
231 Ensign Street, Fort Morgan, CO 80701
Tuesday January 20th, 2026

To participate in the Citizen's Comment Period you must connect via Zoom Conferencing Access Information: https://us02web.zoom.us/j/81464424980 **If you cannot connect via Zoom, you may submit written public comment to morgancountybcc@co.morgan.co.us by email by 4 p.m. on Monday January 19th, 2026.**

To participate in Public Hearings you may connect via Zoom Conferencing Access Information: https://us02web.zoom.us/j/81464424980 **listen via phone, please dial: 1-312-626-6799, Meeting ID: 814 644 24980**
To watch and/or listen to the meeting but not participate, you may do so by connecting via Zoom Conferencing Access Information: https://us02web.zoom.us/j/81464424980 **or to listen via phone, please dial: 1-312-626-6799, Meeting ID: 814 644 24980**
9:00 A.M.

A. WELCOME – CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL:
Commissioner Becker
Commissioner Malone
Commissioner Bernhardt

B. CITIZEN'S COMMENT PERIOD

Citizens are invited to speak to the Commissioners on agenda or non-agenda items. There is a 3-minute time limit per person, unless otherwise noted by the Chairman. Please note that no formal action will be taken on these items during this time due to the open meeting law provision; however, they may be placed on future posted agenda if action is required.

The Board of Morgan County Commissioners will convene as the Morgan County Board of Social/Human Services in the matter of:

1. CALL TO ORDER
2. Consideration of Approval – **DHS MINUTES** December 16th, 2025
3. Consideration of Approval – **DHS WARRANTS** for November 2025 (Susan Nitzel, Accounting Manager)
4. Consideration of Approval – **DHS CERTIFICATION OF PROVIDER AND VENDOR BENEFIT AUTHORIZATIONS** for November 2025 (Susan Nitzel, Accounting Manager)

(*Recess as necessary)

*Morgan County is committed to making its public meetings accessible to persons with disabilities. If you need special accommodations, please call (970)542-3500, extension 1410, at least 2 business days in advance of a meeting to make arrangements.

PREPARED BY: Shannon Petterson, Executive Administrative Assistant for BCC
AGENDA POSTED by January 16th, 2026 @ 4:00 P.M.

C. CONSENT AGENDA

All matters under the consent agenda are considered to be routine by the Board of County Commissioners and will be enacted with a single vote. There will be no separate discussion of these items. If discussion is deemed necessary, any Board member may ask that the item be removed from the Consent Agenda and considered separately:

1. Ratify the Board of County Commissioners approval of **BCC Meeting minutes** dated January 13th, 2026.
2. Ratify the Board of County Commissioners approval of **Contract Renewal 2025 CNT 023 R1 Veterans Affairs General Fund,** term of contract January 1st, 2026 through December 31st, 2025.
3. Ratify the Board of County Commissioners approval of **Contract 2025 CNT 088 David Bute**, term of contract January 1, 2025 through December 31, 2025.
4. Ratify the Board of County Commissioners approval of **Contract 2026 CNT 004 Luthern Family Services Rocky Mountains,** term of contract January 5th, 2026 through May 31st, 2026.
5. Ratify the Board of County Commissioners approval of **Contract 2026CNT 005 Morgan County Board of County Commissioners,** term of contract January 1st, 2026 through December 31st, 2026.
6. Ratify the Board of County Commissioners approval of **Contract 2026 CNT 006 David Bute**, term of contract January 1st, 2026 through December 31st, 2026.
7. Ratify the Board of County Commissioners approval of **Contract 2026 CNT 007 Biddle Consulting Group,** term of contract January 4th, 2026 through March 31st, 2031.
8. Ratify the Board of County Commissioners approval of **Contract 2026 CNT 008 HDR Engineering, Inc.,** term of contract until January 31st, 2026 through December 31st, 2026
9. Ratify Chairman Jon Becker's signature on **Stormwater Inspection,** dated January 15th, 2026.
10. Ratify Chairman Jon Becker's signature on **Colorado Liquor Retail License Renewal Application for Longmeadow Game Report and Event Center**.
11. Ratify Chairman Jon Becker's signature on **Colorado Liquor License Retail License Renewal Application for The City of Fort Morgan dba Quail Dunes Golf Course.**
12. Ratify the Board of County Commissioners approval of **Request for Waiver of Rental Fees for East Morgan County Hospital Foundation,** signed December 18th, 2025.
13. Ratify the Board of County Commissioners approval of **Request for Waiver of Rental Fees for Freedom to Cowboy Up,** signed December 16th, 2025

D. UNFINISHED BUSINESS

E. GENERAL BUSINESS AND ADMINISTRATIVE ITEMS

1. Consideration of approval of **2026 Proposed Salary Structure**.
2. Consideration of Approval – **Quit Claim Deed to Lebsock 13 Farms, LLLC**

F. COUNTY OFFICIAL AND DEPARTMENT HEAD REPORTS

1. Commissioners Calendar for week of January 16th, 2026 through January 27th, 2026.

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PREPARED BY: Shannon Petterson, Executive Administrative Assistant for BCC
AGENDA POSTED by January 16th, 2026 @ 4:00 P.M.

G. PLANNING AND ZONING

1. PUBLIC HEARING

A. **1041 Permit Application-** Continued Public Hearing from December 16, 2025
Applicant: Tri-State Generation and Transmission Association, Inc.
Request: 1041 Permit for a Major Facility of a Public Utility to construct and operate a transmission line and proposed new switching station in a portion of Big Sandy-Badger Creek project located in Morgan County.

G. ADJOURNMENT

*Morgan County is committed to making its public meetings accessible to persons with disabilities. If you need special accommodations, please call (970)542-3500, extension 1410, at least 2 business days in advance of a meeting to make arrangements.

PREPARED BY: Shannon Petterson, Executive Administrative Assistant for BCC
AGENDA POSTED by January 16th, 2026 @ 4:00 P.M.

HUMAN SERVICES WARRANTS

State of Colorado)
) ss.
County of Morgan)

I, Jacque Frenier, Director of Human Services of Morgan County, Colorado, hereby confirm that the payments listed below were made to the respective payees totaling the sum as indicated for the month of November 2025.

Date

Director, Jacque Frenier

HMS warrants	$ 268,839.62
HMS payroll	$ 227,422.51
Total warrants	$ 496,262.13

APPROVAL BY COUNTY BOARD OF HUMAN SERVICES

State of Colorado)
) ss.
County of Morgan)

I, Jon J. Becker, Chairman of the Board of Human Services of Morgan County, Colorado, hereby confirm that the payments set forth herein have this date been approved, and warrants in payment thereof ordered issued upon the Social Services Fund, accounts as of November 30, 2025 totaling the sum of $496,262.13.

Date

Chairman, Jon J. Becker

Morgan County Department of Human Services
Warrants List Summary
November 30, 2025

Expenditures:	11/5/2025	11/12/2025	11/20/2025	11/26/2025	Month Total	Oct Month Total
Program Costs	47.40	25,445.19	25,667.33	2,404.41	53,564.33	23,479.92
Program Contracts			1,450.00		1,450.00	57,904.85
Program Grants					-	300.00
County Interfund		135.00	7,792.98		7,927.98	28,375.83
Employee Payroll				88,883.01	88,883.01	91,469.99
Employee Benefits				117,014.30	117,014.30	116,806.55
	47.40	25,580.19	34,910.31	208,301.72	268,839.62	318,337.14

227,422.51	HMS direct deposits
88,883.01	warrant payroll
316,305.52	gross salary

316305.52 Total wages for November

-

AP Check Register

1/9/2026

Records: 42

Bank	Check No	Status	Check Date	Voided On	Vendor Id	Vendor Name	Amount
10 - SOCIAL SERVICES FUND							
Checks							
	1023203	R	11/05/2025		9963	KEVIN J HANSON DBA	$47.40
	1023204	R	11/12/2025		9241	ARAPAHOE CO DEPT OF FINANCE	$3,870.40
	1023205	R	11/12/2025		8458	CENTER FOR HEALING TRAUMA	$875.00
	1023206	R	11/12/2025		993	EDWARDS RIGHT PRICE MARKET	$16.13
	1023207	R	11/12/2025		9922	ELIZABETH GETTMAN	$183.50
	1023208	R	11/12/2025		7294	FRONT RANGE LEGAL PROCESS	$65.00
	1023209	R	11/12/2025		9178	JEANINE A GUILBERT	$129.50
	1023210	R	11/12/2025		86	MORGAN COUNTY GENERAL	$135.00
	1023211	R	11/12/2025		9406	MORGAN COUNTY TREASURER	$19,954.66
	1023212	R	11/12/2025		5780	NEBRASKA CHILD SUPPORT	$171.00
	1023213	R	11/12/2025		9818	SENERGY PETROLEUM LLC	$180.00
	1023214	R	11/20/2025		9246	ALLO COMMUNICATIONS LLC	$252.00
	1023215	R	11/20/2025		7328	ANITA CORNWELL	$710.00
	1023216	R	11/20/2025		6580	BABY BEAR HUGS	$1,450.00
	1023217	R	11/20/2025		9620	CARMEN DIEGO DEVICENTE	$219.26
	1023218	R	11/20/2025		9945	COMMAND SERVICE SYSTEMS INC	$4,816.41
	1023219	R	11/20/2025		503	GREAT COPIER SERVICE INC	$177.16
	1023220	R	11/20/2025		10082	KRISTINE F BIRD	$2,425.00
	1023221	R	11/20/2025		8431	LEXISNEXIS RISK DATA MGMT INC	$200.00
	1023222	R	11/20/2025		5273	MATTHEW BENDER AND COMPANY	$40.44
	1023223	R	11/20/2025		83	MORGAN COUNTY CENTRAL SERVI	$14,419.75
	1023224	R	11/20/2025		86	MORGAN COUNTY GENERAL	$7,792.98
	1023225	R	11/20/2025		5780	NEBRASKA CHILD SUPPORT	$342.00
	1023226	R	11/20/2025		1463	ODP BUSINESS SOLUTIONS, LLC	$2,045.31
	1023227	R	11/20/2025		9818	SENERGY PETROLEUM LLC	$20.00
	1023228	R	11/26/2025		8449	AMERICAN FIDELITY ASSURANCE	$6,316.93
	1023229	R	11/26/2025		8450	AMERICAN FIDELITY ASSURANCE C	$701.67
	1023230	R	11/26/2025		2391	C H P	$75,850.41
	1023231	R	11/26/2025		8458	CENTER FOR HEALING TRAUMA	$275.00
	1023232	R	11/26/2025		2209	COLORADO WELFARE FRAUD COU	$120.00
	1023233	R	11/26/2025		8914	CORPORATE TRANSLATION SERV I	$745.76
	1023234	R	11/26/2025		9963	KEVIN J HANSON DBA	$47.40
	1023235	R	11/26/2025		1996	LABCORP	$152.00
	1023236	R	11/26/2025		1104	MORGAN CO TREASURER	$71,335.22
	1023237	R	11/26/2025		2006	MORGAN COUNTY TREAS	$11,627.43
	1023238	R	11/26/2025		6164	MORGAN COUNTY TREASURER/CC	$39,673.47
	1023239	R	11/26/2025		5780	NEBRASKA CHILD SUPPORT	$342.00
	1023240	R	11/26/2025		378	PREPAID LEGAL SERVICES	$124.60
	1023241	R	11/26/2025		9994	RAISE THE FUTURE	$522.25
	1023242	R	11/26/2025		483	STERLING COMMUNITY	$70.00
	1023243	R	11/26/2025		9375	TEXAS LIFE INSURANCE CO	$197.58
	1023244	R	11/26/2025		8001	YNOSENCIA BARRAZA	$200.00
Total for Checks :							**$268,839.62**
Subtotal for 10 - SOCIAL SERVICES FUND :							**$268,839.62**
Total:							**$268,839.62**

CERTIFICATION OF PROVIDER, VENDOR AND BENEFIT AUTHORIZATIONS

State of Colorado)
) ss.
County of Morgan)

I, Jacque Frenier, Director of Human Services of Morgan County, Colorado, hereby certify that the payments as set forth on accounts listed below, on pages attached, are made to the respective payees in the amounts set opposite their names, and totaling the sum as indicated for the month of November, 2025. These are actual payments paid in the month of November, 2025. These payments may include benefits from prior months.

_____ _____
Date Director- Jacque Frenier

Temporary Assistance for Needy Families (TANF)	$43,335.00
Child Care	$71,754.99
Foster Care	$36,931.70
Sub Adopt/RGRDS	$32,516.93
Child Welfare/Case Services	$578.00
Core Services	$15,937.66
LEAP	$47,871.07
Aid to Needy Disabled (AND)	$8,142.00
Old Age Pension (OAP)	$27,821.64
Food Assistance Benefits (Food Stamps)	$589,910.00
PEBT-Food Assistance Benefits (School)	$0.00
Employment 1st	$1,500.00
Total	**$876,298.99**

APPROVAL BY COUNTY BOARD OF HUMAN SERVICES

State of Colorado)
) ss.
County of Morgan)

I, Jon Becker, Chairman of the Board of Human Services of Morgan County, Colorado, hereby certify that the authorizations set forth herein have this date been approved, and reimbursement to the state for the county share in the amount listed above is approved.

_____ _____
Date Chair

EBT-Provider, Vendor, Benefit Authorizations

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	June-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	YTD total
TANF	$54,036.87	$54,849.00	$51,902.21	$51,078.42	$54,378.00	$57,200.26	$58,941.40	$52,292.00	$53,239.86	$52,405.00	$50,821.95	$54,627.86	$645,772.83
Child Care	$42,917.45	$52,277.38	$73,224.69	$56,882.54	$55,711.56	$78,242.90	$72,343.02	$93,485.15	$81,286.04	$81,469.46	$97,145.36	$78,463.32	$863,448.87
Foster Care	$55,042.17	$49,542.33	$41,350.44	$46,682.49	$46,416.75	$43,199.02	$40,142.10	$43,280.97	$43,355.03	$38,455.42	$39,155.99	$40,140.32	$526,763.03
Sub Adopt/ RGRDS	$38,851.77	$39,166.84	$35,684.59	$38,460.46	$36,919.80	$38,104.46	$35,654.80	$36,724.46	$38,819.46	$35,239.80	$36,414.46	$34,816.68	$444,857.58
CW/Case Services								$418.60	$1,482.60	$1,104.40	$560.01	$252.80	$3,818.41
Core Services	$13,000.16	$12,418.66	$13,340.16	$15,357.91	$14,400.41	$15,061.66	$11,585.41	$20,301.66	$15,186.66	$13,502.21	$17,206.86	$7,621.07	$168,982.83
LEAP	$24,986.84	$85,162.45	$22,104.02	$14,104.50	$10,295.08	$71,902.98	$0.00	$0.00	$0.00	$0.00	$50,825.16	$31,131.97	$310,513.00
AND	$6,572.00	$6,740.14	$9,630.85	$8,353.20	$10,174.00	$10,688.00	$8,957.59	$8,314.00	$10,078.00	$9,082.33	$7,679.00	$7,621.07	$103,890.18
OAP	$20,742.30	$23,827.52	$21,564.54	$20,993.26	$21,927.30	$85,771.65	$19,532.38	$17,751.15	$20,581.95	$44,048.45	$22,359.63	$23,142.34	$342,242.47
Food Stamps	$1,049,085.00	$1,007,575.00	$656,634.60	$621,165.00	$631,321.00	$636,839.00	$617,474.00	$610,409.00	$603,353.00	$647,804.88	$630,117.00	$631,913.00	$8,343,690.48
PEBT Food Stamps	$30,132.00	$0.00	$0.00	$0.00	$0.00	$0.00	$357,000.00	$0.00	$0.00	$0.00	$0.00	$0.00	$387,132.00
Empl 1st	$2,150.49	$1,225.00	$1,650.00	$1,500.00	$1,350.00	$2,150.03	$1,688.43	$3,677.00	$3,236.00	$3,335.50	$1,795.00	$2,185.00	$25,942.45
Total	**$1,337,517.05**	**$1,332,784.32**	**$927,086.10**	**$874,577.78**	**$882,893.90**	**$1,039,159.96**	**$1,223,319.13**	**$886,653.99**	**$870,618.60**	**$926,447.45**	**$954,080.42**	**$911,915.43**	**$12,167,054.13**
											monthly average		$1,013,921.18

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	June-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	YTD total
TANF	$52,987.49	$48,500.00	$48,249.59	$62,830.60	$50,279.27	$52,576.11	$57,648.25	$67,114.00	$64,459.82	$64,567.35	$62,455.00	$60,128.50	$691,795.98
Child Care	$73,659.89	$102,276.96	$81,055.95	$75,470.68	$96,943.72	$75,050.57	$77,585.34	$89,037.81	$65,351.19	$79,647.07	$59,276.56	$61,119.90	$936,475.64
Foster Care	$39,877.38	$52,791.18	$54,523.88	$59,739.21	$55,553.18	$64,607.52	$65,281.16	$64,893.01	$47,024.87	$37,710.89	$35,887.45	$35,101.46	$612,991.19
Sub Adopt/ RGRDS	$36,950.98	$37,030.65	$33,653.34	$35,974.26	$38,550.08	$39,078.57	$37,903.20	$38,545.64	$38,361.64	$37,123.20	$37,027.64	$36,873.20	$447,072.40
CW/Case Services	$326.40	$410.00	$451.50	$125.00	$386.00	$125.00	$0.00	$1,421.79	$0.00	$0.00	$0.00	$0.00	$3,245.69
Core Services	$22,598.88	$18,136.66	$16,948.66	$12,554.16	$14,282.16	$15,242.66	$14,966.66	$16,216.66	$19,920.66	$27,284.16	$16,104.16	$13,191.66	$207,447.14
LEAP	$20,318.48	$124,580.93	$21,633.46	$10,655.13	$10,236.98	$1,280.86	$0.00	$0.00	$0.00	$0.00	$55,147.39	$27,216.94	$271,070.17
AND	$6,873.83	$5,969.83	$6,317.16	$6,327.14	$6,528.05	$6,839.50	$5,140.50	$5,055.57	$5,372.79	$5,851.99	$5,559.97	$9,097.27	$74,933.60
OAP	$18,425.91	$20,042.63	$21,321.55	$21,139.23	$18,921.06	$84,875.37	$15,989.48	$20,305.02	$19,860.96	$26,675.95	$16,855.00	$28,708.76	$313,120.92
Food Stamps	$612,454.00	$598,509.00	$595,837.58	$602,873.00	$603,119.00	$602,228.00	$613,827.00	$619,162.00	$608,251.00	$617,793.12	$605,310.00	$622,676.20	$7,302,039.90
PEBT Food Stamps	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$585,840.00	$0.00	$0.00	$0.00	$0.00	$0.00	$585,840.00
Empl 1st	$1,000.00	$1,844.00	$1,615.00	$1,200.00	$1,670.00	$1,350.00	$1,850.00	$2,865.00	$2,090.00	$1,710.00	$2,130.00	$1,650.00	$20,974.00
Total	**$885,473.24**	**$1,010,091.84**	**$881,607.67**	**$888,888.41**	**$896,469.50**	**$943,254.16**	**$1,476,031.59**	**$924,616.50**	**$870,692.93**	**$898,363.73**	**$895,753.17**	**$895,763.89**	**$11,467,006.63**
											monthly average		$955,583.89

	Jan-25	Feb-25	Mar-25	Apr-25	May-25	June-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	YTD total
TANF	$62,022.35	$65,859.97	$59,597.02	$50,103.29	$49,441.00	$54,395.00	$57,031.00	$47,677.00	$45,816.00	$47,938.15	$43,335.00		$583,215.78
Child Care	$66,364.08	$67,936.77	$61,803.34	$63,856.34	$73,959.84	$66,549.57	$70,700.55	$85,715.73	$73,059.11	$85,600.04	$71,754.99		$787,300.36
Foster Care	$37,230.69	$41,551.81	$39,895.02	$44,841.47	$43,671.16	$45,577.99	$47,663.34	$35,799.11	$38,252.75	$30,791.46	$36,931.70		$442,206.50
Sub Adopt/ RGRDS	$36,922.64	$36,562.64	$34,624.32	$36,562.64	$35,383.20	$36,439.24	$29,979.60	$31,627.68	$31,768.92	$30,429.60	$32,516.93		$372,817.41
CW/Case Services	$139.00	$0.00	$0.00	$0.00	$0.00	$0.00	$712.00	$217.50	$600.00	$0.00	$578.00		$2,246.50
Core Services	$13,799.16	$16,534.16	$12,751.66	$14,281.66	$13,806.66	$7,101.32	$9,933.67	$6,458.33	$17,546.66	$16,638.66	$15,937.66		$144,789.60
LEAP	$17,916.49	$111,447.05	$19,635.70	$8,869.03	$8,324.53	$117,180.00	$0.00	$0.00	$0.00	$0.00	$47,871.07		$331,243.87
AND	$7,766.38	$7,558.11	$6,879.23	$6,981.82	$7,538.29	$9,106.62	$8,188.30	$9,259.81	$10,507.15	$10,509.66	$8,142.00		$92,437.37
OAP	$22,681.97	$24,101.98	$22,494.89	$26,576.20	$28,816.05	$58,024.79	$23,676.83	$26,547.44	$22,300.34	$20,979.77	$27,821.64		$304,021.90
Food Stamps	$628,086.00	$630,638.00	$648,539.00	$626,256.00	$617,138.00	$621,228.00	$606,199.00	$608,556.00	$605,476.00	$596,231.00	$589,910.00		$6,778,257.00
PEBT Food Stamps	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00
Empl 1st	$2,275.00	$2,050.00	$1,755.00	$1,500.00	$2,288.40	$1,450.00	$1,900.00	$1,725.00	$1,690.00	$1,750.00	$1,500.00		$19,883.40
Total	**$895,203.76**	**$1,004,240.49**	**$907,975.18**	**$879,828.45**	**$880,367.13**	**$1,017,052.53**	**$855,984.29**	**$853,583.60**	**$847,016.93**	**$840,868.34**	**$876,298.99**	**$0.00**	**$9,858,419.69**
											monthly average		$896,219.97

Program	Cases	November 25	October 25	Difference
TANF		$43,335.00	$47,938.15	($4,603.15)
Child Care		$71,754.99	$85,600.04	($13,845.05)
Foster Care	24 / 26	$36,931.70	$30,791.46	$6,140.24
Sub Adopt/ RGRDS	58 / 60	$32,516.93	$30,429.60	$2,087.33
Child Welfare/Case Serv		$578.00	$0.00	$578.00
Core Services	54 / 63	$15,937.66	$16,638.66	($701.00)
LEAP		$47,871.07	$0.00	$47,871.07
AND		$8,142.00	$10,509.66	($2,367.66)
OAP		$27,821.64	$20,979.77	$6,841.87
Food Stamps		$589,910.00	$596,231.00	($6,321.00)
PEBT Food Stamps			$0.00	$0.00
Empl 1st		$1,500.00	$1,750.00	($250.00)
Total		**$876,298.99**	**$840,868.34**	**$35,430.65**

Year to Year By month

Program	Cases	November 25	November 24	Difference
TANF		$43,335.00	$62,455.00	($19,120.00)
Child Care		$71,754.99	$59,276.56	$12,478.43
Foster Care	24 / 15	$36,931.70	$35,887.45	$1,044.25
Sub Adopt/ RGRDS	58 / 68	$32,516.93	$37,027.64	($4,510.71)
Child Welfare/Case Serv		$578.00	$0.00	$578.00
Core Services	54 / 78	$15,937.66	$16,104.16	($166.50)
LEAP		$47,871.07	$55,147.39	($7,276.32)
AND		$8,142.00	$5,559.97	$2,582.03
OAP		$27,821.64	$16,855.00	$10,966.64
Food Stamps		$589,910.00	$605,310.00	($15,400.00)
PEBT Food Stamps			$0.00	$0.00
Empl 1st		$1,500.00	$2,130.00	($630.00)
Total		**$876,298.99**	**$895,753.17**	**($19,454.18)**

MORGAN COUNTY
2026 PROPOSED SALARY STRUCTURE
Approved County 2026 - 2.5% COLA Increases

Grade Width 1	50.0%
Grade Width 2	50.0%
Separation	5.0%
Minimum	**$16.46**

Colorado Minimum wage - $15.16 in 2026

	Hourly					Monthly			Annual			
Grade	Min	Mid	Max	Width	Sep	Min	Mid	Max	Min	Mid	Max	County Operations
1	$16.46	$20.58	$24.69	50.0%		$2,853	$3,566	$4,280	$34,236	$42,792	$51,360	Mechanic I
2	$17.28	$21.60	$25.92	50.0%	5.0%	$2,996	$3,745	$4,494	$35,952	$44,940	$53,928	
3	$18.15	$22.68	$27.22	50.0%	5.0%	$3,146	$3,932	$4,718	$37,752	$47,184	$56,616	
4	$19.05	$23.82	$28.58	50.0%	5.0%	$3,303	$4,128	$4,954	$39,636	$49,536	$59,448	Clerk (PT) Seasonal Clerk I-Accounting Clerk I-Elections Clerk I-Motor Vehicle Clerk I-Recording Clerk I-Sheriff Courier Entry Clerk Entry Income Maintenance Technician Mower
5	$20.01	$25.01	$30.01	50.0%	5.0%	$3,468	$4,335	$5,202	$41,616	$52,020	$62,424	Administrative Assistant Administrative Assistant AMB/BM/MCCC Administrative Assistant (PT) Administrative Assistant (Sheriff's Office) Administrative Technician Clerk II-Accounting Clerk II-Elections Clerk II-Motor Vehicle Clerk II-Sheriff Data Clerk Entry Investigations Technician Entry Legal Technician Journey Clerk Journey Clerk - Bilingual Journey Income Maintenance Technician Manager-Landfill Office VA Administrator
6	$21.01	$26.26	$31.51	50.0%	5.0%	$3,641	$4,552	$5,462	$43,692	$54,624	$65,544	Administrative Specialist Assessor Technician Clerk III-Accounting Clerk III-Elections Clerk III-Motor Vehicle Clerk III-Sheriff Deputy Coroner - Oncall Rate of pay is $49.20/day for on-call ($2.05/hour). Physical hours worked paid at time and one half ($30.75/hr) after the first hour worked according to policy. First hour physically worked paid at $20.50/hour Entry Case Services Aide Journey Investigations Technician Journey Legal Technician Maintenance Technician II Patrol Cadet Sign Technician
7	$22.06	$27.57	$33.09	50.0%	5.0%	$3,823	$4,779	$5,735	$45,876	$57,348	$68,820	Appraiser I Journey Case Services Aide Lead Fairgrounds Technician Senior Accounting Clerk Senior Income Maintenance Technician Senior Investigations Technician Senior Legal Assistant Senior Legal Technician

Approved by:_____ Date Approved:_____

Approved by:_____ Date Approved:_____

Approved by: Date Approved:

MORGAN COUNTY
2026 PROPOSED SALARY STRUCTURE
Approved County 2026 - 2.5% COLA Increases

Grade Width 1	50.0%
Grade Width 2	50.0%
Separation	5.0%
Minimum	**$16.46**

Colorado Minimum wage - $15.16 in 2026

Grade	Hourly Min	Hourly Mid	Hourly Max	Width	Sep	Monthly Min	Monthly Mid	Monthly Max	Annual Min	Annual Mid	Annual Max	County Operations
8	$23.16	$28.95	$34.74	50.0%	5.0%	$4,015	$5,018	$6,022	$48,180	$60,216	$72,264	Bridge Crewman - Non CDL Communications Technician Recovery Technician Senior Case Services Aide
9	$24.32	$30.40	$36.48	50.0%	5.0%	$4,215	$5,269	$6,323	$50,580	$63,228	$75,876	Accounting Specialist Code Enforcement Official Heavy Equipment Operator Human Resources Specialist Manager-Elections Manager-Recording Manager-Motor Vehicle Lead Worker - Child Support Lead Worker - Front Office Lead Worker - IMT Truck Driver
10	$25.53	$31.92	$38.30	50.0%	5.0%	$4,426	$5,533	$6,639	$53,112	$66,396	$79,668	Asphalt Maintenance Crewman Basic EMT** Bridge Crewman - CDL Building Construction Supervisor Deputy Coroner - FT Entry Case Manager Executive Administrative Assistant Mechanic II Payroll Specialist Victims Advocate
11	$26.81	$33.51	$40.22	50.0%	5.0%	$4,647	$5,809	$6,971	$55,764	$69,708	$83,652	Detention Specialist (Non-Post Certified) Entry Caseworker Fabricator/Welder Fleet Coordinator Journey Case Manager Patrol Support Deputy - Non Post Certified
12	$28.15	$35.19	$42.23	50.0%	5.0%	$4,880	$6,100	$7,320	$58,560	$73,200	$87,840	Appraiser II Asphalt Foreman Bridge Foreman Building Inspector Detention Deputy - POST Certified Journey Caseworker Manager-Landfill Operations Mechanic III Road Foreman Manager - Accounts Payable Manager-Payroll Senior Case Manager
13	$29.56	$36.95	$44.34	50.0%	5.0%	$5,124	$6,405	$7,686	$61,488	$76,860	$92,232	Appraiser III Manager-DHS Front Office Mechanic IV
14	$31.04	$38.80	$46.56	50.0%	5.0%	$5,380	$6,725	$8,070	$64,560	$80,700	$96,840	Information Systems Specialist Paramedic ** System Analyst - DHS Senior Caseworker Senior Personal Property Appraiser Senior Real Estate Appraiser
15	$32.59	$40.74	$48.88	50.0%	5.0%	$5,649	$7,061	$8,473	$67,788	$84,732	$101,676	Administrative Deputy Assessor Information Systems Specialist (GIS) Non Post Certified Detention Sergeant Operations Supervisor** Paramedic Supervisor** System Analyst

Approved by:_____ Date Approved:_____

Approved by:_____ Date Approved:_____

Approved by: Date Approved: _____

MORGAN COUNTY
2026 PROPOSED SALARY STRUCTURE
Approved County 2026 - 2.5% COLA Increases

Grade Width 1	50.0%
Grade Width 2	50.0%
Separation	5.0%
Minimum	$16.46

Colorado Minimum wage - $15.16 in 2026

Grade	Hourly Min	Hourly Mid	Hourly Max	Width	Sep	Monthly Min	Monthly Mid	Monthly Max	Annual Min	Annual Mid	Annual Max	County Operations
16	$34.22	$42.77	$51.33	50.0%	5.0%	$5,931	$7,414	$8,897	$71,172	$88,968	$106,764	Communications Operations Supervisor Emergency Management Director Patrol Deputy
17	$35.93	$44.91	$53.90	50.0%	5.0%	$6,228	$7,785	$9,342	$74,736	$93,420	$112,104	Building Maintenance Director Chief Deputy Assessor Chief Deputy Clerk Chief Deputy Treasurer Manager- Accounting Manager-DHS Accounting Landfill Operations Director Manager-Child Support Manager-Eligibility/Works Manager - Fraud/Investigations Manager-Shop Operations
18	$37.73	$47.16	$56.59	50.0%	5.0%	$6,539	$8,174	$9,809	$78,468	$98,088	$117,708	Livestock Agent Asst Jail Commander - Non Post Certified
19	$39.61	$49.52	$59.42	50.0%	5.0%	$6,866	$8,583	$10,299	$82,392	$102,996	$123,588	Ambulance Service Director Investigator Manager-Adult Protective Services Manager-Bridge Construction Manager-Child Protection Manager-Core Services Manager-Road Construction Sergeant
20	$41.59	$51.99	$62.39	50.0%	5.0%	$7,210	$9,012	$10,814	$86,520	$108,144	$129,768	Chief Deputy Coroner
21	$43.67	$54.59	$65.51	50.0%	5.0%	$7,570	$9,463	$11,355	$90,840	$113,556	$136,260	Deputy DHS Director
22	$45.86	$57.32	$68.79	50.0%	5.0%	$7,949	$9,936	$11,923	$95,388	$119,232	$143,076	Commander
23	$48.15	$60.19	$72.22	50.0%	5.0%	$8,346	$10,432	$12,519	$100,152	$125,184	$150,228	Communications Director
24	$50.56	$63.20	$75.84	50.0%	5.0%	$8,763	$10,954	$13,145	$105,156	$131,448	$157,740	
25	$53.09	$66.36	$79.63	50.0%	5.0%	$9,201	$11,502	$13,802	$110,412	$138,024	$165,624	DHS County Attorney Human Resources Director Planning Administrator Public Safety Director Public Works Director Undersheriff
26	$55.74	$69.67	$83.61	50.0%	5.0%	$9,661	$12,077	$14,492	$115,932	$144,924	$173,904	
27	$58.53	$73.16	$87.79	50.0%	5.0%	$10,145	$12,681	$15,217	$121,740	$152,172	$182,604	Finance/Accounting Director Human Services Director Information Systems Director
28	$61.45	$76.82	$92.18	50.0%	5.0%	$10,652	$13,315	$15,978	$127,824	$159,780	$191,736	
29	$64.53	$80.66	$96.79	50.0%	5.0%	$11,184	$13,980	$16,777	$134,208	$167,760	$201,324	
30	$67.75	$84.69	$101.63	50.0%	5.0%	$11,744	$14,680	$17,615	$140,928	$176,160	$211,380	

Approved by:_____ Date Approved:_____

Approved by:_____ Date Approved:_____

Approved by: Date Approved:

MORGAN COUNTY
2026 PROPOSED SALARY STRUCTURE
Approved County 2026 - 2.5% COLA Increases

Grade Width 1	50.0%
Grade Width 2	50.0%
Separation	5.0%
Minimum	$16.46

Colorado Minimum wage - $15.16 in 2026

	Hourly					Monthly			Annual			
Grade	Min	Mid	Max	Width	Sep	Min	Mid	Max	Min	Mid	Max	County Operations
**** Please note the starred Ambulance Service positions are calculated based on hours worked - (3024 hours - FT) and (1512 - PT) and hourly is calculated using those hours.**												
FULL-TIME												
10	$17.56	$21.42	$25.71	46.4%	5.0%	$4,426	$5,398	$6,478	$53,111	$64,776	$77,736	Basic EMT**
14	$21.35	$26.04	$31.25	46.4%	5.0%	$5,380	$6,561	$7,874	$64,563	$78,732	$94,488	Paramedic **
15	$22.42	$27.34	$32.81	46.3%	5.0%	$5,650	$6,890	$8,267	$67,798	$82,680	$99,204	Operations Supervisor** Paramedic Supervisor**
PART-TIME												
10	$17.56	$21.42	$25.71	46.4%	5.0%	$2,213	$2,699	$3,239	$26,556	$32,388	$38,868	Basic EMT**
14	$21.35	$26.04	$31.25	46.4%	5.0%	$2,690	$3,281	$3,937	$32,282	$39,366	$47,244	Paramedic **
15	$22.42	$27.34	$32.81	46.3%	5.0%	$2,825	$3,445	$4,134	$33,899	$41,340	$49,602	Operations Supervisor** Paramedic Supervisor**

Approved by:_____ Date Approved:_____

Approved by:_____ Date Approved:_____

Approved by: Date Approved:

QUIT CLAIM DEED

THIS DEED is dated _____, and is made between **COUNTY OF MORGAN, STATE OF COLORADO** (whether one, or more than one), the "Grantor", and **LEBSOCK 13 FARMS, LLLP**, a Colorado limited liability limited partnership (whether one, or more than one), the "Grantee," whose mailing address is **23250 CO RD 21, Fort Morgan, Colorado 80701**

WITNESS, that the Grantor, for and in consideration of the sum of **TEN AND NO/100** Dollars **($10.00)**, the receipt and sufficiency of which is hereby acknowledged, does hereby remise, release, sell and QUITCLAIM unto the Grantee, and the Grantee's successors and assigns, forever, all the right, title, interest, claim and demand which the Grantor has in and to the real property, together with any improvements thereon, located in the County of **Morgan** and State of **Colorado**, described as follows:

The East 20 feet of the West 50 feet of the SE1/4 of Section 6, Township 4 North, Range 57 West of the 6th P.M.

Subject to right-of-way for State Highway 52, as it currently exists and in use.

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances and privileges thereunto belonging, or in anywise thereunto appertaining, and all the estate, right, title, interest and claim whatsoever of the Grantor, either in law or equity, to the only proper use, benefit and behoof of the Grantee, and the Grantee's heirs and assigns, forever.

IN WITNESS WHEREOF, the Grantor has executed this deed on the date set forth above.

COUNTY OF MORGAN, STATE OF COLORADO

_____

By Jon Becker, as Chair of the Morgan County Board of Commissioners

State of Colorado

County of Morgan

Signed and sworn to before me the ____ day of _____, 2026, by Jon Becker as Chair of the Morgan County Board of Commissioners

_____
Notary Public

After Recording Return To:
NCT

COMMISSIONERS CALENDAR

January 16th, 2026 through January 27th, 2026

January 16, 2026		Daily County Business
January 19, 2026	Offices Closed	Morgan County Government Offices Closed in Observance of Martin Luther King Jr. Day
January 20, 2026	9:00 A.M. *Public Hearing Immediately following BCC Meeting	Board of County Commissioners Meeting (Assembly Room) (Please check https://morgancounty.colorado.gov/ for meeting options.) 1041 Permit application-Tri-State Generation and Transmission Association, Inc.
January 21, 2026	9:30 A.M.	NECALG (Becker)
January 22, 2026		Daily County Business
January 23, 2026		Daily County Business
January 26, 2026	10:00 A.M. 12:00 P.M. 1:00 P.M.	DHS Work Session Finance Work Session Planning and Zoning Work Session
January 27, 2026	9:00 A.M.-1:00 P.M. 2:00 P.M. 3:00 P.M. 3:30 P.M.	County Attorney Hours Emergency Management Work Session Veterans Services Work Session Solid Waste Work Session

Unless otherwise noted, all meetings with department heads and other non-BCC elected officials listed above may include an update on the status of the department, a general discussion of projects, any matters or concerns that the County needs to address, and activities and operations of the department.

Department meetings may be by conference call or virtual meeting upon request.

**Calendar subject to change due to agreeable cancellations and/or walk-in business.

** All meetings are held in the Administration Building Assembly Room located at 231 Ensign Street, Fort Morgan unless otherwise noted.

*Morgan County is committed to making its public meetings accessible to persons with disabilities. If you need special accommodations, please call (970)542-3500, extension 1410, at least 2 business days in advance of a meeting to make arrangements.

PREPARED BY: Shannon Petterson, Executive Administrative Assistant for BCC
Calendar Posted by January 16, 2025 @ 4:00 P.M.

September 12, 2025

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

Big Sandy to Badger Creek 230 kV Transmission Line Project

Morgan County 1041 Permit Application
for Site Selection and Construction of a Major Facility of a Public Utility

PROJECT NUMBER:
0255602_0000

PROJECT CONTACT:
Rita Ruderman
EMAIL:
[redacted]
PHONE:
[redacted]

POWER ENGINEERS
MEMBER OF WSP

TRI-STATE

September 10, 2025

Nicole Hay, Director
Morgan County Planning and Zoning Department
231 Ensign Street, P.O. Box 596 Fort Morgan, Colorado 80701

Subject: Tri-State Generation and Transmission - Morgan County 1041 Areas and Activities of State Interest Application for the Big Sandy to Badger Creek 230-kV Transmission Project

Dear Ms. Hay:

Tri-State Generation and Transmission Association, Inc. is seeking approval of a 1041 Areas and Activities of State Interest Permit from Morgan County to construct and operate a portion of the Big Sandy to Badger Creek 230-kV Transmission Project (Project) located in Morgan County. Specifically, Tri-State seeks Morgan County Board of County Commissioners' approval of the 1041 Permit to construct, operate, and maintain a single-circuit, 230-kV overhead transmission line along the Proposed Route and associated facilities.

Transmission upgrades are needed in this area to meet the present and future needs of Tri-State's members, which include Morgan County Rural Electric Association. The Big Sandy to Badger Creek line would help improve reliability, allow for connection of new generation, and help close the transmission gap between Colorado and New Mexico. Additionally, the Project will help reduce and/or eliminate the curtailment of generation.

The Project spans approximately 72 miles and extends through portions of Lincoln, Washington, and Morgan Counties in eastern Colorado. The portion of the Proposed Route in Morgan County is approximately 24 miles and, together with the proposed switching station, is the subject of this Application.

Project representatives met with the County on February 27, 2025, for the 1041 Areas and Activities of State Interest Permit Pre-Application Conference, in which Tri-State provided information about the Project and responded to any questions from the County. The Application has been prepared per the requirements outlined in the Morgan County 1041 Regulations.

The requested updates have been added to the Application Narrative, as well as the Application Summary and the requested overview map (attached).

For additional information, please contact me by telephone at [redacted] or by email at [redacted] or contact our environmental consultant, Rita Ruderman with POWER Engineers Inc., by telephone at [redacted] or email at [redacted]

Sincerely,

Izzy Beshouri

Transmission Siting, Permitting & Environmental Planner

P.O. BOX 33695
DENVER, CO 80233-0695
303-452-6111
WWW.TRISTATE.COOP

A Touchstone Energy® Cooperative

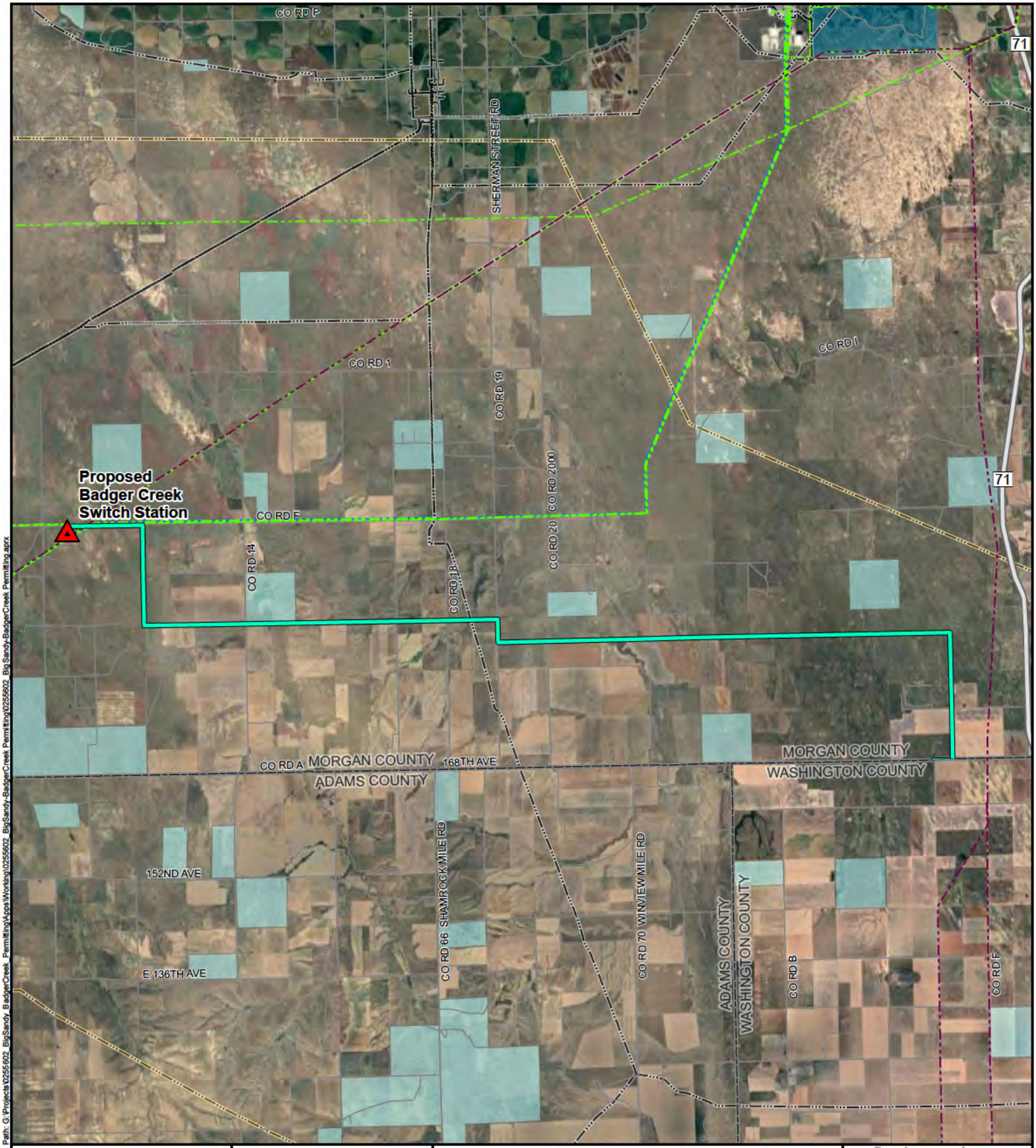
Tri-State Generation and Transmission Association, Inc.
Big Sandy to Badger Creek Transmission Line Project
Project Summary

Tri-State Generation and Transmission Association, Inc. (Tri-State) is proposing to construct approximately 24 miles of new single-circuit 230-kilovolt (kV) transmission line in Morgan County, Colorado. The new transmission line will extend from Tri-State's existing Big Sandy Substation in Lincoln County to a new 230 kV Badger Creek Switching Station in Morgan County. The Big Sandy to Badger Creek Transmission Line Project is proposed to be located in Lincoln, Washington, and Morgan Counties and will cross areas served by Tri-State Member Systems Mountain View Electric Association and Morgan County Rural Electric Association. The Project is being developed to alleviate existing and anticipated transmission constraints, help improve electric reliability, reduce curtailment of generation, and allow for the connection of new generation resources in eastern Colorado. The location of the proposed switching station and preliminary transmission line route are shown on the attached map for your reference.

It is anticipated that construction of the Project will take 12-18 months following receipt of all necessary permits, completion of engineering activities, procurement of materials, and acquisition of easements and other land rights needed for construction. Currently, construction is scheduled to begin in 2027, with the Project scheduled to be in service in early 2028.

Current uses adjacent to the proposed Project facilities will be able to continue mainly unchanged after construction. Following construction, the transmission line will be unmanned. No employees will be on site other than for periodic inspection and any maintenance or repair work. Typical vehicles on site will include pickup trucks and bucket trucks. The transmission line will operate 24 hours per day, 365 days per year.

Tri-State has submitted an application to Morgan County for a Permit to Conduct a Designated Activity of State Interest or to Engage in Development in a Designated Area of State Interest (1041 Permit). A Certificate of Public Convenience and Necessity was received from the Colorado Public Utilities Commission on September 9, 2022, as Decision No. R22-0533.



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PROJECT OVERVIEW MAP

0 1.25 2.5

Miles

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:158,400	1 inch = 2.5 miles
Map Rev: 1	Date: 9/2/2025

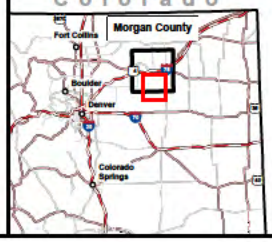
Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

Jurisdiction
- State of Colorado
- Local Ownership
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- State Highway
- Local Road
- County Boundary

Colorado



September 2025

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

Big Sandy to Badger Creek 230 kV Transmission Line Project

Morgan County 1041 Permit Application
for Site Selection and Construction of a Major Facility of a Public Utility

PROJECT NUMBER:
0255602_0000

PROJECT CONTACT:
Rita Ruderman
EMAIL:
[redacted]
PHONE:
[redacted]

POWER ENGINEERS
MEMBER OF WSP

EXECUTIVE SUMMARY

Tri-State Generation and Transmission Association, Inc. (Tri-State) hereby submits this application (Application) for a Permit to Conduct a Designated Activity of State Interest or to Engage in Development in a Designated Area of State Interest (1041 Permit) for the portion of its Big Sandy to Badger Creek 230 kilovolt (kV) Transmission Project (Project) located in Morgan County, Colorado. Specifically, Tri-State seeks Morgan County Board of County Commissioners' approval of the 1041 Permit to construct, operate, and maintain a 230 kV, single-circuit overhead transmission line along the Proposed Route and to construct, operate, and maintain the proposed Badger Creek Switching Station. A Certificate of Public Convenience and Necessity was received from the Colorado Public Utilities Commission on September 9, 2022, as Decision No. R22-0533. This Application addresses each requirement of the Morgan County §1041 Regulations.

Project Purpose and Need

There is presently a gap in Tri-State's southeastern Colorado transmission system that limits the ability of its members to deliver power north-south and between geographically diverse regions. The proposed Big Sandy to Badger Creek 230 kV transmission line would help improve reliability, allow for connection to new generation, and close the transmission gap between Colorado and New Mexico. Additionally, the Project will reduce and/or eliminate the curtailment of generation. Transmission upgrades are needed in this area to meet the present and future needs of Tri-State's members. The Project will also assist Tri-State in making progress on its Electric Resource Plan goal to aggressively reduce greenhouse gas emissions by 2030 by accommodating 400 megawatts of new resources in eastern Colorado through new opportunities for interconnection.

Project Overview

Tri-State is proposing to construct, operate, and maintain a new 230 kV single-circuit, overhead electric power transmission line to connect its existing Big Sandy Substation in unincorporated Lincoln County, Colorado to its proposed Badger Creek Switching Station in unincorporated Morgan County, Colorado. The Project spans approximately 72 miles and extends through portions of Lincoln, Washington, and Morgan Counties in Eastern Colorado. The portion of the Proposed Route in Morgan County and the proposed switching station together are the subject of this Application. For the portions of the Proposed Route in Lincoln County and Washington County, Tri-State will complete land use permitting, as required, in those jurisdictions.
Table ES-1 below outlines the Project components, including approved levels of phased operational capacity when in service. **Appendix B** includes the required maps that show the Proposed Route's location.

TABLE ES-1 PROJECT COMPONENTS

SUMMARY OF PROJECT FACILITIES	
3-304(2)(e)(i) Approximate floor space of office building.	
Not applicable; no buildings are proposed.	
3-304(2)(e)(ii) The voltages and lengths of transmission lines.	
Voltage	230 kV, single-circuit
Length of proposed transmission line in Morgan County	24 miles
3-304(2)(e)(iii) Power source and generating capacity.	
Not applicable; no generation source is proposed.	
3-304(2)(e)(iv) The functions and sizes of substations.	
Badger Creek Switching Station	Operates at a single voltage level and does not have transformers that change or "transform" voltage. Provides a connection to the existing electric grid and future generation tie lines. Not direct load serving.
	230 kV switching station
	40-acre site
3-304(2)(e)(v) The diameters and lengths of pipelines.	
Not applicable.	
3-304(2)(e)(vi) The capacities of the storage tanks and types of petroleum derivative to be stored.	
Not applicable.	
3-304(2(vii) Corridor locations.	
Morgan County	The proposed transmission line enters Morgan County from the south, west of State Highway 71. The route continues approximately 2.5 miles north before turning west. The route then travels west for 9.8 miles before reaching County Road 19 and traveling north for 0.5 miles. The route then parallels County Road D for 2.0 miles and continues west for an additional 5.0 miles. The route turns north and continues for 2.0 miles before turning west to parallel County Road F for 1.5 miles before reaching the proposed Badger Creek Switching Station location.
3-304(2)(e)(viii) Service area.	
The Project will improve the state's north-south electric grid and enable future renewable energy development by providing backbone transmission capacity.	
3-304(2)(e) (ix) Resource area (e.g., source of power being generated or transmitted, source of petroleum derivative being transported).	
The Project does not connect to a specific power source. Facilities in Morgan County are part of the larger Tri-State transmission grid to provide additional transmission capacity.	

Transmission Line Routing Study

In early 2024, Tri-State completed a Transmission Line Routing Study (Routing Study), included in **Appendix A**, to identify and evaluate a range of reasonably available and economically feasible transmission line route alternatives to connect the existing Big Sandy Substation and proposed Badger Creek Switching Station. The Routing Study resulted in an analysis of approximately 200 miles of electric transmission line route alternatives that were evaluated based on multiple factors including potential impacts on airport/airstrip airspace; center pivot irrigation systems; oil and gas facilities; electrical system planning; economics; the natural, cultural, and visual environment; regulatory requirements; land use and property ownership concerns; existing transmission corridors; and engineering criteria. Based on these factors and using a comprehensive screening and comparison process, Tri-State selected the Proposed Route from the route alternatives evaluated in the Routing Study.

The Routing Study details the process by which the Proposed Route was selected from the route alternatives identified and evaluated in the Project study area, as shown in **Appendix A**.

Tri-State selected the Proposed Route for permitting because the Proposed Route minimizes potential impacts to existing land use and to visual, natural, and cultural resources, and meets Tri State's engineering requirements. Tri-State will continue to coordinate with landowners to identify adjustments that may be necessary and execute final easements based on site-specific conditions and micro-siting negotiations with impacted landowners.

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ACRONYMS AND ABBREVIATIONS

APEN	Air Pollutant Emissions Notice
Application	Morgan County 1041 Permit Application
BMP	Best Management Practice
County	Morgan County
CPCN	Certificate of Public Convenience and Necessity
CPUC	Colorado Public Utilities Commission
CPW	Colorado Parks and Wildlife
C.R.S.	Colorado Revised Statute
dBA	A-weighted decibel
EMF	electric and magnetic fields
FAA	Federal Aviation Administration
kV	kilovolt
NESC	National Electrical Safety Code
Project	Big Sandy to Badger Creek 230 kV Transmission Line Project
Regulations	Morgan County §1041 Regulations
Routing Study	Transmission Line Routing Study
ROW	right-of-way
SWMP	Stormwater Management Plan
TCA	temporary construction area
Tri-State	Tri-State Generation and Transmission Association, Inc.
USFWS	United States Fish and Wildlife Service

TABLE 1 MORGAN COUNTY 1041 REGULATIONS – SUBMITTAL REQUIREMENTS

REQUIREMENT	LOCATION IN THIS APPLICATION	MORGAN COUNTY GUIDELINES AND REGULATIONS FOR AREAS AND ACTIVITIES OF STATE INTEREST CODE CITATION
1041 Application Form	Page ix	3-304(2)(a)
1. Project Narrative		
a. Project Description	Section 3	3-304(2)(b), 3-305(3)(a), (c)
b. Present Use and Zoning	Section 4	3-304(2)(l)
c. Type of Facility	Section 6	3-304(2)(l)
d. Proposed Development Schedule	Section 7	3-304(2)(f)
e. Hazard and Emergency Procedures		
f. Impacts and Mitigation	Section 8	3-304(2)(g)
g. Alternatives Analysis		
h. Additional Information for Transmission Projects	Section 12 Section 11	3-305(2)(e-h; k; n-o), 3-305(3)(b) 3-305(2)(i-j; l)
i. Compliance with Criteria for Approval	Section 13	3-305(3)(f)
	Section 14	3-306
2. Vicinity Map and Plans	Section 5	3-304(2)(d), 3-305(2)(a; c)
3. Title Information a. Property Owners b. Right-of-Way Agreements c. Mineral Rights Information	Section 9	3-305(2)(b)
4. Development Agreement	Section 9	3-305(2)(m)
5. Other Information	None identified during Pre-Application Conference	3-305(2)(d; p)
6. Application Fees	Submitted with Application	

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1.0 INTRODUCTION

Tri-State Generation and Transmission Association, Inc. (Tri-State) proposes to construct, operate, and maintain a new 230 kilovolt (kV) single-circuit, overhead electric power transmission line to connect its existing Big Sandy Substation in unincorporated Lincoln County, Colorado to the site for its proposed Badger Creek Switching Station in unincorporated Morgan County, Colorado. The Big Sandy to Badger Creek 230 kV Transmission Line Project (Project) spans approximately 72 miles and extends through portions of Lincoln, Washington, and Morgan Counties in Eastern Colorado. Tri-State identified the Proposed Route for the new transmission line after conducting a Transmission Line Routing Study (Routing Study) for the Project in February 2024. Five transmission line route alternatives were identified and evaluated in the Routing Study and included Route Alternatives A, B, C, D, and E. Based on routing criteria and input from landowners, Tri-State selected Route Alternative C as the Proposed Route for permitting with applicable local governments.

Per Morgan County (County) requirements included in its *Morgan County Guidelines and Regulations for Areas and Activities of State Interest* (Morgan County §1041 Regulations [Regulations]), *Chapter 3*, *Article 3, Section 3-305,* prior to constructing the proposed Project, Tri-State is required to obtain a 1041 permit for the Site Selection and Construction of a Major Facility of a Public Utility from the Morgan County Planning Commission. The Project's Proposed Route in Morgan County is the subject of this Morgan County 1041 Permit Application (Application).

This Application presents the following information:

- Section 1.0 – Introduction
- Section 2.0 – 1041 Application
- Section 3.0 – Description of Proposed Facility and Site
- Section 4.0 – Present Use and Zoning
- Section 5.0 – Vicinity Map
- Section 6.0 – Type of Facility
- Section 7.0 – Proposed Development Schedule
- Section 8.0 – Hazard and Emergency Procedures
- Section 9.0 – Title Information and Development Agreement
- Section 10.0 – Maps
- Section 11.0 – Alternatives Considered
- Section 12.0 – Environmental Impact Analysis
- Section 13.0 – Additional Information for Transmission Lines and Substations
- Section 14.0 – Compliance with Approval Criteria
- Section 15.0 – References

1.1 Estimated Project Schedule

Tri-State is seeking to have all land use permits approved in October 2025. Construction is anticipated to begin in July 2027, with facilities anticipated to be in service in March 2028. The construction schedule is contingent on acquiring all necessary land rights and permits.

1.2 Project Activities Prior To Submittal of Application

1.2.1 Coordination with Affected Landowners

Tri-State has conducted a comprehensive landowner outreach program to share Project information with and solicit feedback from impacted landowners. As of February 2025, all landowners impacted by the Project have been contacted and 90% have given permission for Tri-State to enter their properties and conduct engineering surveys. Permission to survey is necessary for preliminary transmission line surveying activities.

1.2.2 Transmission Line Routing Study

In early 2024, Tri-State completed a Routing Study, included in **Appendix A**, to identify and evaluate a range of reasonably available and economically feasible transmission line route alternatives to connect the existing Big Sandy Substation and proposed Badger Creek Switching Station. In the Routing Study, approximately 200 miles of electric transmission line route alternatives were evaluated based on multiple factors including potential impacts on airport/airstrip airspace; center pivot irrigation systems; oil and gas facilities; electrical system planning; economics; the natural, cultural, and visual environment; regulatory requirements; land use and property ownership concerns; existing transmission corridors; and engineering criteria. Based on these factors and using a comprehensive screening and comparison process, Tri-State selected the Proposed Route from the route alternatives evaluated in the Routing Study.

The Routing Study details the process by which the Proposed Route was selected from the route alternatives identified and evaluated in the Project study area, as shown in **Appendix B**.

Tri-State selected the Proposed Route because it minimizes potential impacts to existing land use and to visual, natural, and cultural resources, while meeting Tri-State's engineering standards. Tri-State will continue to coordinate with landowners to identify adjustments that may be necessary and execute final easements based on site-specific conditions and micro-siting negotiations for transmission structure locations.

1.3 Regulatory Framework

Federal, state, and local permits and approvals may be required prior to Project construction. Outreach was conducted with each jurisdiction crossed by the Project to solicit feedback and discuss potential permits that may be required.

Multiple Colorado statutory provisions and local government land use plans and controls apply to the Project, including approval of a Certificate of Public Convenience and Necessity (CPCN) from the Colorado Public Utilities Commission (CPUC); notice, consultation, and permit

approvals from counties and municipalities; and notice to mineral estate owners associated with the proposed Badger Creek Switching Station site.

All necessary land use, environmental, and construction permits, approvals, and authorizations will be obtained prior to the start of and during construction as required.

Tri-State anticipates avoiding impacts to jurisdictional waters of the United States in Morgan County and therefore does not anticipate that the Project facilities in the County will require a Nationwide General Permit #57 or other United States Army Corps of Engineers permits per the Federal Clean Water Act, Section 404.

The regulatory requirements identified by Tri-State are listed in **Table 2**. **Table 2** is intended as a general list of the permits and approvals that may be required for the Project, but other permits or approvals may also be required.

TABLE 2 LAND USE PERMIT REQUIREMENTS AND APPLICABILITY

JURISDICTION	TITLE	ACTION REQUIRING PERMIT/APPROVAL	STATUTORY REFERENCE	APPLICABILITY
CPUC	CPCN	Need for new electrical facility in Colorado	C.R.S. 40-5-101, C.R.S. et seq., and Rule 1303 4 CCR 723-1 and Rules 3002, 3102, and 3206, 4 CCR 723-3	Applicable for entire project
	Notification of Intention to Submit Permit Application for Major Electrical Facilities	Filing permit application for location, construction, or improvement of major electrical or natural gas facilities	C.R.S. 29-20-108	Applicable for entire project
	Government and State Notice Requirements, Mineral Owners	Public hearing by a local government on an application for development	C.R.S. 24-65.5-103	Applicable for entire project
CDPHE	Construction General Stormwater Permit and Stormwater Management Plan	Construction sites that disturb one acre or greater	5 CCR 1002-61	Required for switching station
CDPHE	Land Development APEN	Construction disturbance greater than 25 acres or duration longer than six months	5 CCR 1001-14	Required for switching station
CDOT	Access and Crossing Permits	Crossings of state and federal highways	2 CCR 601-1	Required for transmission line
Colorado State Historic Preservation Office	Determination of Compliance with Historical, Prehistorical, and Archaeological Resources	Potential impacts to historic, prehistoric, and/or archaeological resources	C.R.S. 24-80-401-411 C.R.S. 24-80-1301-13058 CCR 1504-7	Required for entire project
Morgan County	1041 Permit	Proposed development of an activity of state interest (major facility of a public utility) in Morgan County	Guidelines and Regulations for Areas and Activities of State Interest	Required for facilities in Morgan County
Washington County	1041 Permit	Proposed development of transmission line in Washington County	Guidelines and Regulations for Areas and Activities of State Interest	Required for facilities in Washington County
Lincoln County	USR Permit	Proposed development of any use not specifically allowed in a zone district	Lincoln County Zoning Resolution, Article 3, Use by Special Review Procedures, Div. 2	Required for facilities in Lincoln County

Notes: FAA = Federal Aviation Administration; CPCN = Certificate of Public Convenience and Necessity; CPUC = Colorado Public Utilities Commission; C.R.S. = Colorado Revised Statutes; CCR = Code of Colorado Regulations; CDPHE = Colorado Department of Public Health and Environment; APEN = Air Pollutant Emissions Notice; USR = Use by Special Review

2.0 COMPLETED APPLICATION FORM 3-304(2)(B)

A completed 1041 Permit application form is included in this Application following the Executive Summary. The Application fee will be submitted with this Application.

Docusign Envelope ID: F5301603-721E-4AFE-A71D-370384747BDC

EXHIBIT B

MORGAN COUNTY, COLORADO

APPLICATION FOR A PERMIT TO CONDUCT A DESIGNATED ACTIVITY OF STATE INTEREST OR TO ENGAGE IN DEVELOPMENT IN A DESIGNATED AREA OF STATE INTEREST

To: Permit Authority, Morgan County
Re: Big Sandy to Badger Creek 230-kV Transmission Project, as a matter of state interest.
From: Tri-State Generation and Transmission Association, Inc.
(Applicant's Name)

1100 W 116th Ave, Westminster, CO 80234
(Address)

(720) 648-3678
(Telephone)

Date Submitted: _____

Date Received and Accepted as Complete: _____

1. Matter of State Interest.

The applicant requests that a permit be issued for each of the items checked below:

X Site selection and construction of a major facility or public utility.
__ Other

2. Proposed Activity or Development.

General description of the specific activity or development proposed:
See Application Sections 1 and 3

3. General Description.

A general, nonlegal description and the popular name, if any, of the tract of land upon which the activity or development is to be conducted.
See Application Section 3

4. Legal Description.

The legal description, including the acreage, of the tract of land upon which the development or the activity is to be conducted, by metes and bounds or by government survey description: (attach additional sheets if necessary):

See Application Appendix B

Docusign Envelope ID: F5301603-721E-4AFE-A71D-370384747BDC

5. Owners and Interests.

Set out below 'or on separate sheets the names and addresses of those persons holding recorded legal, equitable, contractual and option interests and any other person known to the applicant having an interest in the property described in paragraph 4, above; as well as the nature and extent of those interests for each person, as required in the Guidelines and Regulations *or* Areas and Activities of State Interest of Morgan County for each of the activities or areas checked in paragraph 1 above.' See Application Section 9 and Appendix D

6. Submission Requirements.

Submission requirements described in the Guidelines and Regulations for Areas and Activities of State Interest of Morgan County for each of the activities or areas check ed in paragraph 1 above, are attached to this application. Those attachments are identified, by letter or number, and described by title below: See Application including Submittal Requirements table at front.

7. Design and Performance Standards.

The attached analyses show that each of the design and performance standards set forth in the Regulations for each of the activities or areas checked in paragraph 1 above, will be met. The individual analyses are identified by reference to the appropriate paragraph or section numbers corresponding to each standard in the Regulations. See Application Section 14

8. Additional Information Required.

Attach any additional information required by the Guidelines and Regulations. See Application Section 13

9. Duration of Permit.

The Applicant requests a permit for a period of PERPETUAL years

10. Application Fee.

An application fee accompanies this application. Note: This initial application fee is nonrefundable . The applicant may also be required to pay Morgan County's reasonable costs of processing this application in excess of such fee, including but not limited to costs of consultants, attorneys, copies, long distance telephone, and facsimile transmission expenses. Reimbursement of the County's costs of processing shall be made within 30 days of invoice by the County to the applicant therefor. The Planning Administrator may also require deposit in advance of expenditure for expenditures deemed significant and reasonably likely to be incurred. If the applicant fails to pay the initial application fee or to reimburse or deposit expenses to the County in a timely manner, the County may refuse to process or suspend processing of an application, including refusal to hold hearings or issue permits.

APPLICANT:

Docusign Envelope ID: F5301603-721E-4AFE-A71D-370384747BDC

By: DocuSigned by: H. Steven Gray BE3E53863E7E454

(Name) H. Steven Gray

Senior Manager, Transmission Land Rights & Permitting

(Title)

Docusign Envelope ID: 9BBAC386-6012-4D81-8C42-24F8B2C10856

CONTRACT EXECUTION AUTHORIZATION DELEGATION AGREEMENT

I, H. Steven Gray, hereby acknowledge Tri-State's trust and empowerment in me as a responsible agent for the safeguard and protection of Tri-State's rights, obligations, liabilities, expenditures, and assets. I understand my contract execution authority is limited to the types of contracts designated below:

- Agreements and conveyance documents for private land rights (e.g., license, easement, lease, fee title) where Tri-State is the grantee and the dollar amount is $250,000 or less
- Applications for state and/or federal ROW grants and permits and other similar government submittals
- Ballots, proxies and similar documents related to owner's associations, water districts and other entities in which Tri-State is a voting member based on ownership of land rights
- Crossing licenses, consents to easement, hunting and guiding agreements and temporary access agreements where Tri-State is the grantor or the grantee
- GIS data sharing agreements
- Grants, permits or similar documents providing authorization to use State and federal ROW and/or land for transmission, telecommunication or access purposes, or any combination thereof where the dollar amount is $250,000 or less
- Permit applications and approval documents including local land use, stormwater, right-of-way, crossing, access, subdivision, and exemption

I have read and understand the terms and conditions of and agree to comply with the Contract Execution Program. I further understand that improper use of this authority may result in revocation of authority and disciplinary action up to and including termination of employment.

DocuSigned by:
By: _____ Date: 9/19/2025
BF3F53863F7F454...
Name: H. Steven Gray
Title: Vice President, Land, Water and Environmental Resources

The authority to sign contracts as set forth above is hereby delegated to: H. Steven Gray, Vice President, Land, Water and Environmental Resources.

Tri-State Generation and Transmission Association, Inc.

DocuSigned by:
By: _____ Date: 9/22/2025
56B2DCB5BAD1419...
Name: Duane Highley
Title: Chief Executive Officer

Signature block format for these agreements

Tri-State Generation and Transmission Association, Inc.

By: _____
Name: H. Steven Gray
Title: Vice President, Land, Water and Environmental Resources

Send original to the Records Department and a copy to the Legal Department.

3.0 DESCRIPTION OF PROPOSED FACILITY AND SITE (3-304(2)(B))

This Application addresses only the portion of the Project located within Morgan County. Land use permitting is occurring concurrently with Washington and Lincoln Counties.

Tri-State proposes to construct, operate, and maintain a 230 kV transmission line originating at the existing Big Sandy Substation – located approximately three miles northeast of Limon in Lincoln County – and terminating at the proposed Badger Creek Switching Station – to be located approximately 14 miles southwest of Fort Morgan in Morgan County. Project facilities include the proposed 230 kV single-circuit, overhead transmission line and associated access roads extending through portions of unincorporated Lincoln, Washington, and Morgan counties. The total length of the Proposed Route is approximately 72 miles; 24 miles of which are situated in Morgan County.

3.1 Transmission Line

The proposed transmission line would be constructed on privately-owned land in a proposed 150 to 200-foot right-of-way (ROW), with 75 feet to 100 feet on either side of the centerline. **Figure 1** shows the typical design for the tangent wooden H-frame 230 kV single-circuit transmission structures proposed for the Project. Tangent structures are those that are situated in a straight line. Where the transmission line's route turns, Tri-State will install angle structures, which require larger foundations than tangent structures to support the tension of the transmission line pulling in different directions. Angle structures will be steel structures in concrete foundations. **Figure 2** shows the typical design for the dead-end (angle structures) 230 kV structures proposed for the Project. The structures will include three phase conductors, with insulators, and two "shield" or overhead ground wires, one of which will include fiber optic cables for internal Tri-State communications. Transmission structure heights will range from 50 feet to 100 feet above ground. The structures will be situated approximately 500 feet to 1,200 feet apart depending on topography and site-specific conditions.

3.2 Switching Station

In addition to the proposed transmission line, Tri-State is proposing to site the Badger Creek Switching Station in Morgan County. A switching station is a type of substation that operates at a single voltage level; for this Project, it will be 230 kV. This switching station will be required for routing power between different transmission lines. The station will only switch circuits and will not change voltage. Differently from a substation, the switching station will not have transformers. The proposed switching station is estimated to include a 12.5- to 15-acre facility, with a 4.4-acre fenced-in switchyard.

3.3 Transmission Line and Switching Station Access

Construction access roads will allow construction crews and vehicles to access transmission structure locations and temporary construction areas (TCAs), which are described below. Traffic controls may be required near TCAs during construction to ensure the safety of crews and the traveling public.

Access to the proposed Badger Creek Switching Station will be designed to meet Morgan County road design standards.

Where practicable, existing public roads and private roads will be utilized during Project construction, operation, and maintenance. Some private roads may require improvements and overland access will be used where there aren't existing roads to accommodate construction equipment and long-term maintenance of the transmission line.

Where road improvements are needed, Tri-State will acquire necessary grading, stormwater, and erosion control permits and comply with permit requirements. Tri-State will acquire access easements, as needed, where access routes traverse private property. Some access routes may remain as two-tracks post-construction to maintain access to the transmission line for operation and maintenance activities.

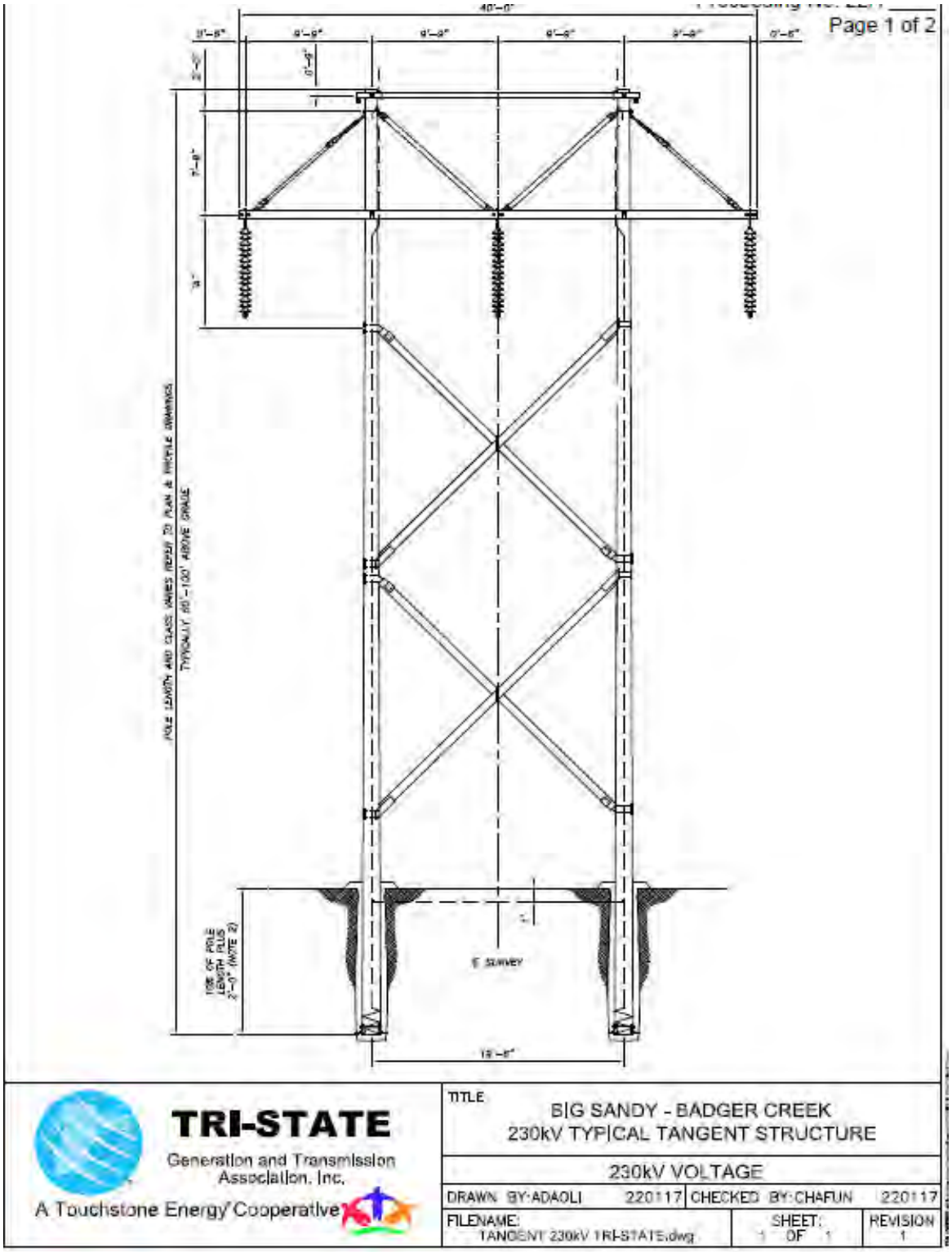

FIGURE 1 PROPOSED 230 KV TANGENT STRUCTURE

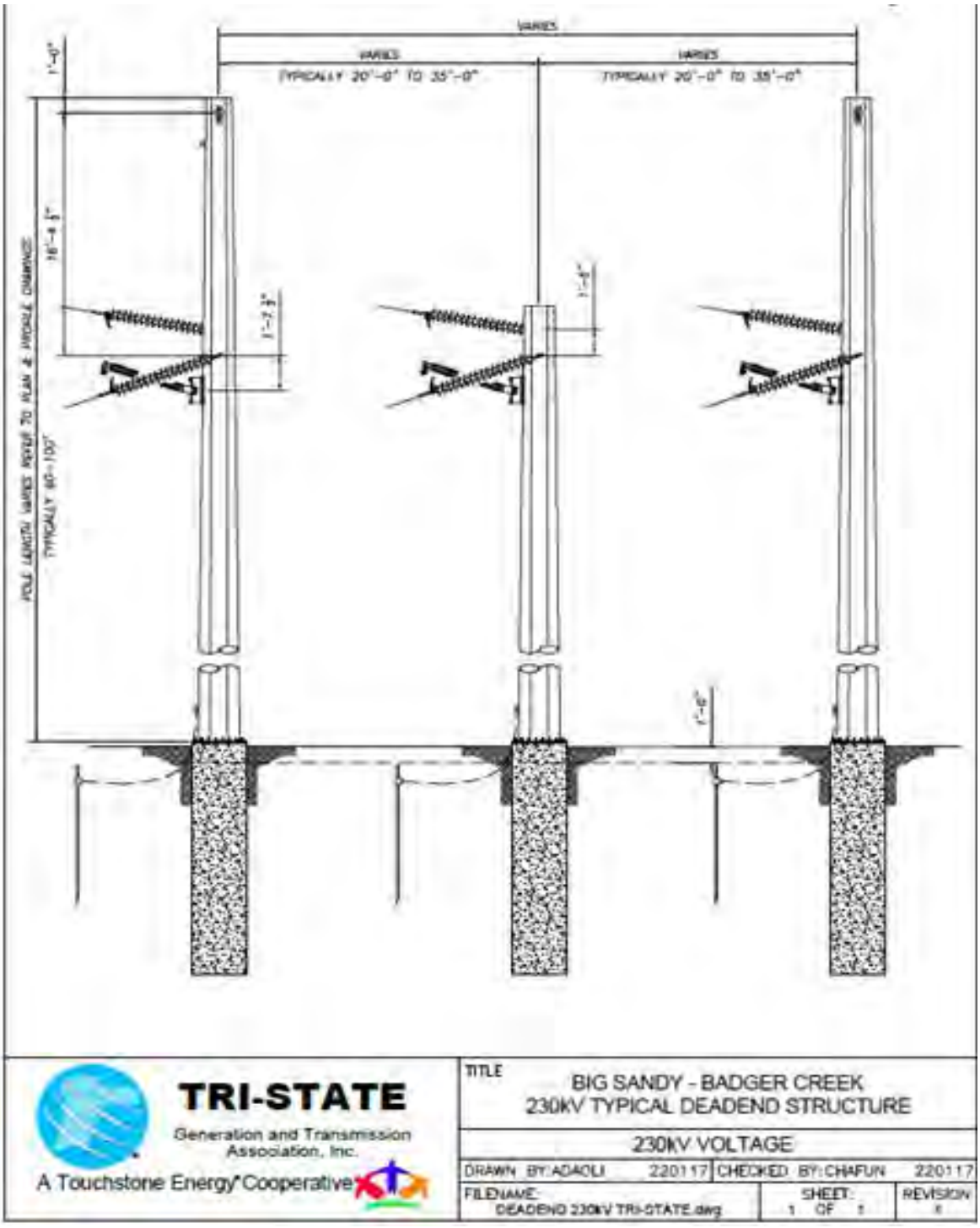

FIGURE 2 PROPOSED 230 KV DEAD-END STRUCTURE

3.4 Temporary Construction Areas

TCAs will be used during construction to stage construction equipment and materials including construction trailers, cranes, and transmission poles. TCAs will be sited to avoid grading for equipment placement and materials storage. TCAs, specifically called pull sites, are also necessary when stringing the conductor wire. Permits will be obtained for TCAs, as required. At the end of construction, all equipment will be removed from the TCAs and the areas will be restored to preconstruction conditions, generally requiring decompaction and seeding.

Final TCA locations will be identified once construction plans are finalized and permitted at that time, if required. Additional details about TCAs are discussed in the following sections. The TCAs will be an approved accessory use for the Project transmission line and switching station in Morgan County. Final TCA locations identified by Tri-State will be reviewed and administratively approved by County staff.

3.4.1 Staging/Laydown Areas

Temporary construction staging and laydown areas will be used for the duration of construction at various locations along the transmission line route, on the switching station parcel, or along access roads. Staging areas will be used to store equipment including construction trailers, multiple storage containers, and other heavy equipment. Water service will not be required at the staging areas as bottled water will be provided. Dumpsters would be provided for construction waste and would be emptied on a regular or as-needed basis. Electrical service may be requested, where available, for construction office trailers. Tri-State will compensate willing landowners for temporary use of staging areas.

3.4.2 Helicopter Landing Zones

Transmission poles may be installed using either cranes or a helicopter. The use of helicopters for aerial pole installation will require temporary landing zones adjacent to the ROW approximately every 15 miles. No improvements to the land would be required for this use, only temporary matting. These zones will likely be approximately 300 feet by 300 feet and the exact locations will be identified during a preliminary site visit closer to construction. Transmission poles may be assembled in the fly yards and transported by helicopter to the location where each pole will be installed.

3.4.3 Conductor Stringing Areas

Installation of the conductor, shield wire, and fiber optic wire will require establishing pulling sites at various intervals along the alignment for equipment setup. Pulling sites are required at specific angles to ensure the conductor wire is pulled in line with the transmission poles, thereby limiting the strain on the poles. The maximum anticipated distance between the pulling sites will be approximately four to six miles for the conductor being used. Pulling sites for the fiber optic wire will be closer together based upon the manufacturer's stringing requirements and may not coincide with the conductor pulling sites. Temporary guard structures will be installed, at a minimum, at all overhead utility crossings, highway crossings, and railroad crossings. All wires will be installed using aerial stringing techniques and none of the wires will be allowed to come into contact with the ground. Installation of the initial pilot line that will eventually lead to pulling

in the wires will be by overland methods. Depending on construction restrictions, helicopters may be used to pull in the pilot line. Once the wires have been installed between the pulling sites, the conductor will be properly tensioned and brought up to the appropriate sag. After sagging, clipping crews will move down the sagged line and clamp the wires in place at each structure location, and the stringing blocks removed. Any additional attachments such as vibration dampers will be installed at this time. Fiber optic wire will also require the installation of splice boxes at various locations. Locations of splice boxes will be as accessible as possible.

3.5 Construction Process

3.5.1 Construction Phases

Construction of the transmission line and switching station is expected to occur in phases that generally include the following: construction access and vegetation clearing, installation of best management practices (BMPs), equipment mobilization and material delivery, foundation construction, transmission structure placement and installation, conductor wire stringing and electrical equipment installation, and clean-up and final grading.

Right-of-Way Clearing and Construction Preparation

Construction access road improvements, and setup of TCAs will be conducted prior to construction of the transmission line and switching station. Proposed access roads will allow construction crews and vehicles to access transmission structure locations, TCAs, and the switching station area.

For structures being installed in active agricultural fields, attempts will be made to minimize crop damage by using the most direct access to the structure site, minimizing the area required for structure installation, and constructing in non-production seasons where possible. In areas for which construction matting has been identified to support construction equipment, mats would be installed immediately prior to construction in that area. Due to the time lags associated between the various construction activities, mats would be removed after the structures have been installed. Temporary access to the site for conductor stringing operations will be by tracked vehicle, light duty trucks, or other approved means.

Transmission Line Construction

Foundation Excavation

Prior to construction and during Project planning and design stages, soil borings are taken to understand the sub-surface conditions where Project facilities will be built. Geotechnical borings are taken using bore drill rigs.

Once the pre-construction preparation work has been completed, work on the transmission lines and work within the switching station will begin. The majority of the transmission line structures will not require foundations. However, at angle structures, foundations will consist of concrete reinforced with steel that can range in diameter and depth based upon the subsurface conditions. Construction crews will begin drilling for transmission structure foundations. It is anticipated that various excavation methods would be required for the foundations. Foundation holes would be drilled with an auger. In areas that have soft soils prone to sloughing, the

excavation may need to be temporarily cased until the structure is installed or the casing may be left permanently. Dewatering methods would need to be employed on excavations having a high water table prior to setting the structure. Reinforced concrete drilled pier foundations typically range from six to nine feet in diameter and are drilled 20 to 40 feet deep. Once construction crews have drilled the hole for the new transmission structure, the foundation is installed, and the hole is backfilled. In the event holes need to be left open overnight, the holes would be covered, flagged, and fenced to protect the safety and welfare of livestock and the public. Switching station foundations are installed in a similar manner which includes excavation followed by pouring the concrete.

Structure Assembly and Installation

Structure assembly would include attaching cross arms, braces, stringing blocks, insulators, and down guys if required. Transmission structures will be placed using either cranes or a helicopter.

Helicopter installation could be used in areas with poor surface access and involves assembling the transmission poles in the material staging area, then transporting the transmission poles by helicopter to installation locations to be lowered into place. Helicopter installation enables access to areas that are difficult for construction vehicles to traverse, minimizes construction impacts such as erosion, and expedites construction. This type of installation improves construction efficiency and helps protect the environment in areas of limited accessibility. Tri-State and the construction contractor will coordinate with the Federal Aviation Administration (FAA) during helicopter operations and obtain all required permits.

The remaining transmission structures will be installed using the traditional crane installation method. Conventional crane installation will involve first hauling the structure pieces to the location, then assembling the transmission structures at the installation locations and setting them with the crane.

Conductor Stringing

Once all the transmission structures are in place, the conductor wire and optical ground wire are strung using a temporary pulley system attached to the insulators. Trucks, heavy equipment, and sometimes helicopters are used in this process. Conductor pulling sites will be located at specific angles to ensure the conductor wire is pulled in line with the transmission structures, remaining in alignment. Temporary guard structures will be installed, at a minimum, at all overhead utility crossings, highway crossings, and railroad crossings. All wires will be installed using aerial stringing techniques and none of the wires will be allowed to come into contact with the ground. Installation of the initial pilot line that will eventually lead to pulling in the wires will be by overland methods. Depending on construction restrictions, helicopters may be used to pull in the pilot line. Once the wires have been installed between the pulling sites, the conductor will be properly tensioned and brought up to the appropriate sag. After sagging, clipping crews will move down the sagged line and clamp the wires in place at each structure location, and the stringing blocks removed. Any additional attachments such as vibration dampers will be installed at this time. Fiber optic wire will also require the installation of splice boxes at various locations. Locations of splice boxes will be as accessible as possible.

Switching Station Construction

Following switching station grading and foundation installation, steel equipment support structures will be erected on-site. Electrical equipment (circuit breakers, bus work, capacitor banks, surge arresters, station service voltage transformers, line traps, insulators, and an electrical equipment enclosure containing control and communication devices) will be installed after the foundations and support structures are in place. Equipment testing and placing in service occurs after construction is complete.

Cleanup, Reclamation, and Revegetation

Trash would be removed from the construction site daily. Any remaining or extra construction materials would be removed from the ROW at the conclusion of construction. Slash piles or woody debris would be disposed of in a manner acceptable to the County and landowner. Spoils left over from the pole excavations will be removed or spread around the site so as not to disrupt existing drainage patterns. Areas disturbed by construction activities would be disked and brought back to the original grade and revegetated with a certified weed-free seed mix. Seed mixes and reclamation would be coordinated with individual landowners.

All temporary work areas and the transmission line ROW will be restored in a manner generally similar to their condition prior to construction and as may be provided for in agreements with landowners. This work may include drain tile and fence repair, rut removal, decompaction, tilling, seeding, and stabilization measures. All areas not needed for ongoing operations and maintenance and not being used for crop production will be reclaimed and/or reseeded as soon as practicable and in coordination with the landowner following construction in a given area. Similarly, restoration of temporary work areas at the switching station site will be completed after construction and final grading is complete. If any loss or damage occurred to crops or other non-restorable property during construction, Tri-State will compensate the landowner for such loss or damages. ROW agents will meet with landowners to learn about site-specific conditions, which may need to be addressed.

3.5.2 Construction Staffing, Vehicles, and Equipment

It is anticipated that one 10-hour shift per day (Monday through Saturday) will be worked during transmission line and switching station construction. The maximum number of construction workers on site at any one time will be approximately 90 workers, with an average of 50-60 workers. Transmission line construction is expected to be completed in phases over the duration of the construction schedule, in total an anticipated period of 10 to 16 months. Badger Creek Switching Station construction is expected to last up to five to seven months. Neither the transmission line nor the switching station will have permanent on-site employees. Upon completion, the Project will be operated and monitored remotely 24 hours per day, seven days per week, 365 days per year to provide safe and reliable electric service. On average, the switching station will be visited one to two times per month for inspections and maintenance. The transmission line will be inspected regularly (at least annually) to look for the following:

- Non-compatible vegetation and hazards within the ROW.
- Equipment needing repair or replacement.
- ROW encroachments, which can be hazardous to safety and reliable operations.
- Anything that might jeopardize the safe, reliable operation of the power line.
- Utilities must visit the ROW for these inspections but visits typically are minimal.

The number of deliveries will vary depending on the phase of construction, with approximately 300 loads of material spread out over three months. During the beginning of construction, contractor mobilization will likely require 40 trucks in seven days. Throughout the rest of the Project, it is anticipated that an average of two to three trucks per day will be utilized during the construction of the transmission line. The impact to local public roads will vary day-by-day as the construction moves along the route. The construction of the switching station will involve mostly personal vehicle trips for construction workers.

Poles, cross arms, bracing, insulators, and the necessary hardware would be staged and delivered to each individual structure site using approved access routes. Deliveries of materials are normally made using flatbed trucks. Owing to the amount of material, multiple deliveries may be required to fully stock the construction site. For material deliveries to structures located near county roads, materials may be offloaded and set along the road ROW out of the ditch line and any travel way. Trucks, heavy equipment, and sometimes helicopters are used to install conductor wire after all transmission structures are erected in an area.

Similar equipment is used for switching station construction and includes a crane, drill rig, concrete truck, boom trucks, trailers, support structures, steel casing, and rebar cages. A staging area on or adjacent to the switching station site will be designated for truck traffic to deliver materials to the switching station; these trips will be approximately once or twice per week. Concrete will be delivered via concrete trucks, and the concrete will be pumped or poured on-site. There will be daily concrete truck deliveries made when the foundations and piers are constructed. There will be multiple deliveries of yard rock and cement required daily at certain stages of construction. To mitigate any potential impacts to local County roads, Traffic Control Plans will be prepared and followed during construction. Traffic could be temporarily stopped or rerouted for activities that affect public safety, such as stringing of conductors across roads. Tri-State will coordinate public safety measures with local and state officials to minimize traffic disruption and to continue to provide for emergency vehicles.

4.0 PRESENT USE AND ZONING

Zoning is shown in the related map in **Appendix B**. **Table 3** describes the present land use and zoning district for the Project's facilities in Morgan County.

TABLE 3 SUMMARY OF PRESENT LAND USE AND ZONING DISTRICT

PROJECT FACILITY IN MORGAN COUNTY	PRESENT LAND USE	PRESENT ZONING DISTRICT
Transmission Line	Grassland Cultivated Crop Pasture	Agriculture (A)
Badger Creek Switching Station	Grassland	Agriculture (A)

5.0 VICINITY MAP (3-304(2)(D)) AND (3-305(2)(A))

The Vicinity Map showing the proposed Badger Creek Switching Station site and transmission line, and the surrounding area is included in this submittal as **Appendix B**. Section 3-304(2)(d) requires details to be shown on the Vicinity Map. **Table 4** below shows what is provided and what is not applicable per the County's Regulations. The figures in **Appendix B** address requirements, as applicable, in Section 3-305(2)(a).

Contact information for the applicant, engineer, surveyor, and consultants is provided below to address the requirement in Section 3-305(2)(a)(iii).

Applicant:
Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation & Transmission Association, Inc.
1100 West 116th Avenue
Westminster, Colorado 80234
[redacted]

Engineers:
Carolyn Kruppenbach
Senior Transmission Line Engineer
Tri-State Generation & Transmission Association, Inc.

Kent Utley
Senior Substation Design Engineer
Tri-State Generation & Transmission Association, Inc.

Surveyors:
Dan Wolken
Senior Survey Project Manager
Tri-State Generation & Transmission Association, Inc.

Consultant:
Rita Ruderman
Project Manager
POWER Engineers, Inc.
3900 South Wadsworth Boulevard, Suite 700
Lakewood, Colorado 80235
[redacted]

TABLE 4 VICINITY MAP DETAILS TO BE SHOWN PER 3-304(2)(D) AND 3-305(2)(A)

REQUIRED PER MORGAN COUNTY §1041 REGULATIONS		APPLICABILITY/LOCATION IN THIS APPLICATION
Section 3-304(2)(d)		
i.	If a power plant is proposed, the area within fifty (50) miles from the site.	Not applicable; no power plant proposed.
ii.	If new transmission lines or pipelines are proposed, provide map showing all existing transmission lines and pipelines for a distance of two miles beyond any reasonable alternative studied.	Applicable for existing transmission lines; shown on **Appendices A and B**.
iii.	For upgrades of existing transmission lines or gas pipelines, provide a map showing all existing transmission lines and pipelines within one mile on either side of the proposed alignment.	Not applicable because the Project is not upgrading an existing transmission line. However, existing transmission lines are depicted on maps in **Appendices A and C**.
iv.	For all other major facilities of a public utility, the area within ten (10) miles of the site if another major facility is proposed.	Applicable for Badger Creek Switching Station, shown on maps in **Appendices A and B**.
Required per 3-305(2)(a)		
i.	The name of the proposed development or use and total number of acres under consideration.	Project name appears on maps in **Appendix B**. • Approximately 40 acres under consideration for Badger Creek Switching Station. • Approximately 582 acres are under consideration for transmission line ROW in Morgan County (calculated as 200-foot ROW for 24 miles of transmission line) • 622 total acres under consideration in Morgan County
ii.	Since all maps and plans may be used for public presentation, the map scale and size should be large enough for effective, presentation and should accurately illustrate the application.	The map scale and size included in **Appendices B and C** will meet this requirement for effective public presentation.
iii.	Name, address, and telephone number of the applicant, designer: engineer, surveyor, and any other consultants of the applicant.	Section 5.0
iv.	Date of preparation, revision box, written scale, graphic scale, and north arrow for each map.	Provided on maps in **Appendix B**.

6.0 TYPE OF FACILITY (3-304(2)(E))

A detailed description of the proposed Project facilities in Morgan County is provided in Section 3.0. **Table 5** below provides a summary of the requested information in Section 3-304(2)(e) of the Morgan County §1041 Regulations.

TABLE 5 SUMMARY OF PROJECT FACILITIES

SUMMARY OF PROJECT FACILITIES	
3-304(2)(e)(i) Approximate floor space of office building.	
Not applicable; no buildings are proposed.	
3-304(2)(e)(ii) The voltages and lengths of transmission lines.	
Voltage	230 kV, single-circuit
Length of proposed transmission line in Morgan County	24 miles
3-304(2)(e)(iii) Power source and generating capacity.	
Not applicable; no generation source is proposed.	
3-304(2)(e)(iv) The functions and sizes of substations.	
Badger Creek Switching Station	Operates at a single voltage level and does not have transformers that change or "transform" voltage. Provides a connection to the existing electric grid and future generation tie lines. Not direct load serving.
	230 kV switching station
	40 acres
3-304(2)(e)(v) The diameters and lengths of pipelines.	
Not applicable.	
3-304(2)(e)(vi) The capacities of the storage tanks and types of petroleum derivative to be stored.	
Not applicable.	
3-304(2(vii) Corridor locations.	
Morgan County	The proposed transmission line enters Morgan County from the south, west of State Highway 71. The route continues approximately 2.5 miles north before turning west. The route then travels west for 9.8 miles before reaching County Road 19 and traveling north for 0.5 miles. The route then parallels County Road D for 2.0 miles and continues west for an additional 5.0 miles. The route turns north and continues for 2.0 miles before turning west to parallel County Road F for 1.5 miles before reaching the proposed Badger Creek Switching Station location.
3-304(2)(e)(viii) Service area.	
The Project will improve the state's north-south electric grid and enable future renewable energy development by providing backbone transmission capacity.	

SUMMARY OF PROJECT FACILITIES
3-304(2)(e) (ix) Resource area (e.g., source of power being generated or transmitted, source of petroleum derivative being transported).
The Project does not connect to a specific power source. Facilities in Morgan County are part of the larger Tri-State transmission grid to provide additional transmission capacity.

7.0 PROPOSED DEVELOPMENT SCHEDULE (3-304(2)(F))

7.1 Employees and Shifts

Table 6 below addresses Section 3-304(2)(f)(i) of the Regulations in providing estimates for the maximum number of employees, number of shifts, and employees per shift during the construction, operation, and maintenance phases of the Project.

TABLE 6 EMPLOYEES AND SHIFTS PER PHASE

PHASE	EMPLOYEES	SHIFTS
Construction	40 to 70	Five to six shifts per week, 10- to 12-hour shifts.
Operations	The site is monitored remotely during operations.	
Maintenance	Five to 15	Dependent upon maintenance cycle. Maintenance is conducted on an annual basis and, in the first few years of operation, usually consists of ground patrol with minimal maintenance required. About two to four weeks of 10-hour shifts per year.

7.2 Future Phases, Extensions, and Relationships to Other Projects

The proposed project, together with the recently constructed Burlington – Lamar 230 kV transmission line and the planned improvements to the existing Burlington – Big Sandy 230 kV transmission line will meet three specific needs of Tri-State and its Utility Members.

1. First, based upon the results of Tri-State's Electric Resource Plan, which models capacity expansion and portfolio optimization for Tri-State's transmission system under several different scenarios, the eastern Colorado transmission system needs to accommodate at least 400 megawatts of new resources by 2030. This Project will avail opportunities for better placement of interconnection facilities and accommodate new generation development.
2. Second, Tri-State has a gap in its transmission system in southeast Colorado. As a jurisdictional transmission provider under the Federal Energy Regulatory Commission, network customers rely on Tri-State's transmission system to "efficiently and economically utilize their Network Resources (as well as other non-designated generation resources) to serve their Network Load." The existing transmission gap limits Tri-State's network customers' ability to deliver power across Tri-State's four-state service area to ensure access to geographically diverse resources.
3. Third, the eastern Colorado transmission system encounters generation curtailments under many prior outage conditions to ensure the reliable operation of the power grid. This is a result of the transmission system having limited to no remaining injection capability under system intact conditions.

The result is a more robust, resilient transmission system in rural Colorado, which is increasingly critical with the growing reliance on renewable energy resources and the potential for future extreme weather events.

7.3 Planning and Permitting Timetable

The following addresses Section 3-304(2)(f)(iii) concerning the timetable for planning and acquiring necessary permits (e.g., federal permits, other state permits, and local government land use and zoning approval). The planning and permitting schedules are shown in **Table 7**. Easements will be negotiated and ROW will be secured prior to construction on a given parcel of private property. For more detailed information on the types of federal, state, and local permits required for the Project, please refer to Section 1.2.

TABLE 7 PLANNING AND PERMITTING SCHEDULE FOR MORGAN COUNTY

PERMIT TYPE AND ACTIVITY	START	COMPLETION
Federal Permitting		
FAA coordination	2026, prior to construction and after final design of the transmission line, if needed	End of construction in 2028.
USFWS coordination	2026, if needed.	End of construction in 2028 if continued consultation is required.
State Permitting		
CPUC CPCN filing	February 2022	September 9, 2022
Initial jurisdictional outreach to state agencies such as Colorado Parks and Wildlife	March 2021	Ongoing through completion of construction, anticipated for 2028.
Submit Morgan County 1041 Permit Application	January 2025	Fall/Winter 2025
Other Morgan County Construction Permitting	Fall/Winter 2026	Spring 2027

7.4 Project Schedule for Construction and Operation

The following addresses Section 3-304(2)(f)(iv) concerning the tentative Project schedule. The construction schedule is contingent on acquiring all necessary land rights, permits, labor, and materials. The estimated in-service date for the Project is the first quarter of 2028.

7.5 Support Facilities

The following addresses Section 3-304(2)(f)(v) to describe support facilities (e.g., pollution control, parking areas, landscaping) to be provided. As described in Section 3.5 of this Application, BMPs and Tri-State's environmental protection measures will be used during construction to control sediment and runoff from work areas (**Appendix F**). Required

construction and waste management procedures will prevent accidental spills or runoff of sediment or contaminants to waterbodies or groundwater.

The Project is not anticipated to generate pollution during operation and maintenance and will not require permanent pollution control equipment. The attached drainage report includes the proposed drainage facility design at Badger Creek Switching Station (**Appendix G**). The site will introduce new impervious area, mainly consisting of a gravel pad and Class 5 road base driveway. The hydrologic/hydraulic analysis of the site utilized guidelines set forth by the Mile High Flood District *Detention Basin Design Workbook* to determine the required water quality capture volume and to design the outlet structure. The drainage design will ensure that discharge from the site will be less than the required 100-year historic discharge rate. The proposed detention pond was designed to provide water quality treatment as well as detain the 100-year storm event while maintaining the required one-foot of freeboard. Civil drawings are attached as **Appendix H**. A Stormwater Management Plan (SWMP) will be created for the Badger Creek site, and stormwater management measures incorporated into the design of the switching station, as necessary.

No public parking spaces are needed for the Project and access drives from nearby roads for construction and maintenance will be incorporated into the transmission line and switching station design. A drive aisle for maintenance trucks and equipment will be located within the Badger Creek Switching Station security fence and surrounding the electrical components. The access drive to the Badger Creek Switching Station will extend from County Road F to the switching station access gate. Vehicles visiting the site for ongoing maintenance operations will be able to pull completely off County Road F onto the access drive. Access to the transmission line structures will be off nearby roads to the transmission line ROW.

Once construction is complete, all areas not needed for operation and maintenance will be reclaimed in a manner generally similar to their condition prior to construction or as may be provided for in agreements with impacted landowners, including by re-seeding in accordance with Tri-State's vegetation management standards. Similarly, switching station site restoration will be completed after construction and the switching station equipment will be enclosed within a seven-foot-tall security fence with one foot of barbed wire.

Section 11.1 of the Application addresses non-structural alternatives as required by Section 3-304(2)(f)(vi) of the Regulations.

8.0 HAZARD AND EMERGENCY PROCEDURES (3-304(2)(G))

8.1 Potential Physical Hazards

The following addresses Section 3-304(2)(g)(i) to describe hazards, if any, of fire, explosion and other dangers to the health, safety, and welfare of employees and the general public.

Transmission lines are built and maintained to meet or exceed safety standards, such as those specified by the National Electrical Safety Code (NESC) and the North American Electric Reliability Corporation. Every effort is made to ensure safety in construction, operation, and maintenance of transmission lines. Transmission lines are designed to withstand extreme weather conditions and protective devices at line terminals stop the electricity flow under abnormal operating circumstances. The transmission structures will be equipped with shield wires above the energized line; this equipment adds to the structure height but also provides protection against lightning strikes.

Tri-State's transmission lines are monitored 24 hours per day, seven days per week for line contact, the term describing when an object comes in contact with the transmission line conductors. If there is an unanticipated event in the line, the line is isolated from the system to protect the public and the line from operating under unsafe conditions. Tri-State's transmission lines are inspected annually to check for line connections and damage. For the safety of the general public, unauthorized personnel are not permitted to enter the switching station site or come in contact with the transmission line conductor wire.

8.2 Potential Environmental Hazards

The following addresses Section 3-304(2)(g)(ii) to describe hazards, if any, of environmental damage and contamination due to materials used at or activities taking place at the proposed facility.

Chemicals that may be used during construction and operation are those found in diesel fuel, gasoline, coolant (ethylene glycol), and lubricants in machinery. Hazardous materials will not be drained onto the ground or into streams or drainage areas. Enclosed containment will be provided for trash disposal. Construction waste, including trash and litter, garbage, other solid waste, petroleum products, and other potentially hazardous materials, will be removed and taken to a disposal facility authorized to accept such materials.

Construction, operation, and maintenance activities will comply with applicable federal, state, and local laws and regulations regarding the use of hazardous substances. Construction activities will be performed using methods that prevent entrance or accidental spillage of solid matter, contaminants, debris, and other pollutants and wastes into flowing streams or dry watercourses, lakes, and underground water sources. Project activities will follow environmental protection measures, included as **Appendix F**, for the management of wastes to avoid and minimize effects from potential spills or other releases to the environment.

Short-term, temporary increases in fugitive dust and construction equipment exhaust (fumes) are anticipated during construction activities. These are not expected to cause a public nuisance, and a water truck will be utilized for dust suppression as needed. Switching station

and transmission line operations will not require on-site staff and will be monitored remotely. Visits from personnel will be limited to emergencies or maintenance and inspection activities. As a result, increased dust or exhaust are not expected during normal operations.

8.3 Emergency Procedures

The following addresses Section 3-304(2)(g)(iii) to describe emergency procedures to be used in the event of fire, explosion or other event, which may endanger the public health, safety, and welfare.

Tri-State's facilities are designed, constructed, operated, and maintained to meet or exceed all applicable Institute of Electrical and Electronics Engineers requirements and accepted industry standards and practices, including Institute of Electrical and Electronics Engineers 979, *Guide for Substation Fire Protection*. All applicable fire laws and regulations, as outlined in Colorado Revised Statute (C.R.S.) §31-15-601, will be observed during construction, operation, and maintenance of the Project transmission line. Fires along transmission lines are very rare. Tri-State's switching stations and transmission lines are monitored and controlled remotely from an operations center where event response is coordinated. In the rare event of an emergency, Tri-State will likely be aware of a problem on the transmission line before the general public or emergency responders. Nevertheless, the public is encouraged to contact Tri-State's dispatch number in the event of an emergency involving the transmission line: 800-230-6180. Unauthorized personnel, including emergency responders, should not approach the facilities and should not touch the electric lines or anyone or anything in contact with them. In the event of an outage, the affected equipment is immediately de-energized by the breaker equipment and Tri-State personnel are dispatched to the site. Tri-State personnel receive safety training for emergency situations related to high-voltage electrical equipment. Tri-State also coordinates closely with local fire departments and first responders and consults with them to discuss any concerns within their response area.

An evacuation plan is not warranted because the proposed transmission line will be situated in agricultural fields in a sparsely populated area with no residences within 0.25 miles of the Proposed Route. Additionally, unlike substations that include transformers containing large quantities of insulating oil, the proposed transmission line will not include oil that could be lost due to a large spill caused by equipment failure or from a lightning strike. Additionally, the proposed switching station also will not include power transformers.

In the event that extreme weather conditions, including heat, cold, severe thunderstorms, and/or high wind events cause the transmission line to fail or cause the transmission structures to be damaged, Tri-State will mobilize inspection crews to the site as soon as it is safe to do so to determine the extent of the damage and begin clean-up operations, if necessary. Tri-State will inform the general public of the cause of the line failure and work to restore power as soon as possible.

8.4 Natural Hazards and Mitigation

The following addresses Section 3-304(2)(g)(iv) to describe any prevalent natural hazards that will affect or be affected by development, and to describe mitigating measures to be taken to reduce danger due to such natural hazards.

Tri-State's electric facilities, including transmission line structures, are specifically designed for the locations where they are placed. Geotechnical studies are conducted for both transmission line structures and switching stations to identify subsurface conditions and determine foundation specifications. Transmission lines are structurally designed according to the NESC, which incorporates standards from the American Society of Civil Engineers on structural loading. The NESC requires structures more than 60 feet tall to be able to resist the loading from various ice and wind scenarios.

The base design wind speed for eastern Colorado is 90 miles per hour. This wind speed is part of an equation that also considers terrain, span length between transmission structures, and transmission structure height to produce an overall wind pressure applied to the wires and the transmission line structure. In addition, the design scenario considers how the structural capacity of a transmission structure is affected by the icing conditions on the wire. The weight of the ice increases the tension in the wires and therefore the loading on the transmission structure. The result of this design scenario is that transmission lines typically have additional structural capacity for much higher wind speeds than the NESC requires after accounting conservatively for icing conditions.

9.0 TITLE INFORMATION AND DEVELOPMENT AGREEMENT (3-305(2)(B)) AND (3-305(2)(M))

9.1 Surface Property Owners

Appendix D lists the names and addresses available in Morgan County's Assessor's database of all surface owners within 500 feet of the proposed transmission line centerline.

9.2 Plans for Legal Access

Tri-State will purchase all of the necessary land rights along the proposed transmission line route once land use permitting is complete. Tri-State has received permission to survey for 90% of affected landowners at the time of this Application submittal. Landowner negotiations will include securing an option for a permanent non-exclusive easement for the 150- to 200-foot-wide ROW of the transmission line as well as permanent and temporary easements required for access and TCAs during and after construction. Once land surveying, final engineering design, and permitting are complete, Tri-State will exercise the options and record the final easements. Construction of the transmission line in Morgan County will not begin until all land rights in Morgan County have been acquired.

9.3 Property Interest Physically Disturbed or Crossed by the Project

Tri-State has all title commitments along the proposed transmission line route in Morgan County. Given the nature of the Project, Tri-State has submitted a request for waiver as part of this Application. The request for waiver is included in **Appendix E**.

9.4 Mineral Rights Crossed

The proposed Project transmission line and structures are exempt from the requirement to identify owners of mineral interests per Section 3-305(2)(b)(iv). The state statute commonly known as "The Surface Development Notification Act" (C.R.S. 24-65.5-101 et seq.) provides that not less than 30 days before the date scheduled for the initial public hearing by a local government on an application for development, the applicant must send a notice of that hearing by certified mail to mineral estate owners (owners or lessees of the mineral estate under the property which is the subject of the application). Pursuant to the Act, the definition of an "Application for Development" covers a wide range of surface development land use approvals, but certain named development activities are specifically exempt from that definition. One exemption includes applications with respect to utility electric lines, which includes Tri-State's transmission lines. Thus, due to the nature and scope of the Project, the transmission line is exempt from the statutory mineral estate owner mailing notification requirements.

Mineral rights owners for the proposed Badger Creek Switching Station site are listed in **Appendix D**. Tri-State will notify any owner or lessee of a mineral estate underneath the switching station property not less than 30 days before the initial public hearing for this Application pursuant to C.R.S. 24-65.5-103.

9.5 Development Agreement

The transmission line will not require the use of community services or facilities beyond what is currently available; therefore, no new or upgraded public services or facilities are anticipated to be needed to serve the Project in Morgan County. In the rare event that new facilities are required, Tri-State will work with Morgan County to enter into a mutually agreeable Development Agreement for the Project as required by 3-305(2)(m).

10.0 MAPS (3-305(2)(C) AND (3)(B))

The following addresses Sections 3-305(2)(c) and (3)(b), which describe the maps required in this Application. **Table 8** below shows where each of the required maps can be found in this Application.

TABLE 8 MAPS TO BE INCLUDED PER MORGAN COUNTY §1041 REGULATIONS

Required per 3-305(2)(c)	Location in this Application
(i) Map delineating study area and describe how the study area was determined.	Appendix A
(ii) Map showing all special districts (school, fire, water, sanitation, etc.) within the study area.	Appendix B
(iii) Map or narrative delineating the area within the study area where the physical and socio-economic environment is likely to be affected, beneficially or adversely, by the site selection and construction of the proposed facility.	Appendix A and Section 12.0
Required per 3-305(3)(b)	**Location in this Application**
(ii) Information regarding other utility facilities. (a) A map showing each existing major facility of a public utility within the County of the type proposed for development. (b) The design capacity of each such facility, the excess capacity of each such facility, and the percentage of capacity at which each such facility operates. (c) Whether present facilities can be upgraded to adequately accommodate a ten (10) year projected increase in demand for services to be offered by the proposed project.	Other utilities are shown on maps in Appendix A: Existing Electric Infrastructure and Oil and Gas Resource Maps. The Project is a backbone transmission system that will connect generation sources in eastern Colorado to demand throughout Colorado; as such, this Application does not address capacity or demand for utility services because no new generation sources are proposed as part of the Project.

11.0 ALTERNATE CONSIDERED (3-305(2))

The following sections meet the requirements outlined in the Morgan County §1041 Regulations 3-305(2)(b)(i), (j), and (l). As described in Section 12.0 of this Application, potential impacts from the Project will be mitigated and are not significant. Therefore, less environmentally damaging alternatives have not been identified, consistent with Section 3-305(3)(b)(viii).

11.1 Analysis of Non-Structural Alternatives

This following addresses Section 3-305(2)(i) for an analysis of non-structural alternatives to the Project such as conservation of energy use, no development, or management (different scheduling, conservation programs, facility design, land trades etc.), if applicable.

The purpose of the Project is to create a network transmission system that can integrate new generation resources needed to meet Colorado's clean energy goals. The existing infrastructure is not adequate to meet demand. Therefore, no non-structural alternatives are viable.

11.2 Analysis of Structural Alternatives

The following addresses Section 3-305(2)(j) for an analysis of structural alternatives to the Project such as alternate locations and routes, alternative types of facilities, use of existing ROWs, joint use of ROWs with other utilities, and upgrading of existing facilities.

Tri-State conducted a Routing Study for the Project in February 2024. The Routing Study documented the process utilized to identify and evaluate a range of reasonable and feasible transmission line route alternatives for the Project's transmission line. The Routing Study did not identify specific construction-related components, such as laydown/staging yards, access routes, and haul routes. The Routing Study is included in **Appendix A** and provides an alternatives analysis to address this requirement.

11.3 Design Alternatives

The following addresses Section 3-305(2)(l) for an analysis of design alternatives concerning access, landscaping, architectural controls and so forth.

Given the relatively small area that will be occupied by the transmission structures and the switching station, and the minimal anticipated visual impact, landscaping is not proposed as part of the Project. The line will be constructed with single circuit, wooden H-frame structures with self-supporting steel structures installed at line angles. Galvanized steel is planned to be used for the three-pole angle structures. Access to the transmission structures from nearby Interstate 70, U.S. Highways, and state and local roads will be confirmed prior to construction.

12.0 ENVIRONMENTAL IMPACT ANALYSIS (3-305(2) AND (3))

The sections that follow address multiple subsections in both 3-305(2) and 3-305(3) that relate to potential impacts from construction and operation of the Project in Morgan County and describe proposed mitigation measures, as applicable. In general, each of the subsections addresses the requirements listed in **Table 9**.

TABLE 9 INFORMATION TO BE INCLUDED PER 3-305(2) AND (3)

REQUIRED PER MORGAN COUNTY §1041 REGULATIONS	LOCATION IN THIS APPLICATION
Section 3-305(2)	
e) Summarization of major natural and socio-economic environmental constraints as they affect the site selection and construction of the facility as proposed.	Sections 12 including 12.1 and 12.2; Appendix A
f) Summarization of the effects of the proposed site selection and construction upon the natural and socio-economic environment of the impact area as applicable to submission requirements. Included should be an analysis of impacts upon agricultural productivity and agricultural resources and upon vested water rights.	Section 12 including 12.1
k) Analysis of air and water pollution impacts and control alternatives.	Sections 12.3 and 12.4, respectively
n) Analysis of hydrologic, atmospheric, geologic, pedologic, biotic, visual, and noise impacts.	Sections 12.3 through 12.8
o) Surface and subsurface drainage analysis.	Section 12.4
Section 3-305(3)(b)	
iii. Land use: a. Describe the relationship of the project to local land use policies and comprehensive plans and to policies and plans adopted or under preparation by federal, state, regional or other affected local governmental agencies. b. Detail the agricultural productivity capability of the land affected by the proposal (SCS classification). c. Specify how the proposed development will utilize existing easements or rights of way for any associated distribution or collector networks.	Sections 12.1 and 12.9

REQUIRED PER MORGAN COUNTY §1041 REGULATIONS	LOCATION IN THIS APPLICATION
iii. Water resources: a. On the map of the base area, or another appropriate map, indicate any flood plain associated with the proposal. Documentation of the historical flooding activity should be included. Detail potential, adverse impacts related to the associated floodplain. b. Describe the potential adverse effects of the proposal upon plant and animal life dependent upon the water resources in question. c. Describe proposed sewage treatment facilities and nonpoint source controls. d. Describe pollutant loads (point and non-point sources) expected directly from the development. Specify seasonal variations. e. Describe the proposed water system, including: i. Source of supply, volume, and rate of flow at full development. ii. Water Rights owned or utilized. iii. Proposed points of diversion and changes of points of diversion. iv. Volume of stream flow to remain unused between points of diversion. v. Dependability of supply (physical and legal). vi. Effects on downstream users.	Section 12.4; Section 12.12 notes that no sewage treatment or water systems are proposed; Section 12.6 addresses plant and animal life including those dependent on available water.
iv. Air quality. a. Detail how many average daily trips will be generated by the proposal. b. Describe atmospheric and meteorologic conditions in the impact area, and the background ambient air quality (TSP, S02, HC, CO, NOx, 03, etc.). c. Describe pollutant outputs anticipated from the development and mitigation strategies.	Section 12.3
v. Significant environmentally sensitive factors: a. Identify and locate on a map of appropriate scale the juxtaposition of any of the following features present in the proposed development or activity and its vicinity and detail the potential impact of the proposal upon each feature. i. Marshlands and wetlands. ii. Ground water recharge areas. iii. Potential natural hazards. iv. Forests and woodlands. v. Critical wildlife habitat. vi. Public outdoor recreation areas. vii. Unique areas of geologic, historic, or archeological importance.	Section 12

REQUIRED PER MORGAN COUNTY §1041 REGULATIONS	LOCATION IN THIS APPLICATION
vi. Visual aesthetics and nuisance factors: a. Identify any significant deterioration of existing natural aesthetics, creation of visual bright, noise pollution or obnoxious odors which may stem from the proposal. b. Where significant, map or describe area within view of project. c. Describe proposed mitigation strategy.	Section 12.7
vii. Transportation impacts: a. Describe what impacts the proposal will have upon transportation patterns in the area intended to be served or affected by the proposal. b. Describe the potential impact on roads within the County. c. Identify improvements required to any roads within the County in order to serve the project adequately.	Section 12.11

12.1 Agricultural Resources and Productivity, Vested Water Rights

Land occupied by the Badger Creek Switching Station and transmission line structure foundations will be removed from current agricultural land use. After construction activities are completed, the land around and between the transmission line structures can continue to be used for agriculture. Tri-State will coordinate with landowners regarding the placement of Project facilities on properties enrolled in the Conservation Reserve Program. Areas disturbed during construction of the Project will be restored in a manner generally similar to preconstruction conditions in coordination with the landowners and their current land uses.

The Project will not cause a significant impact in the immediate area in Morgan County. Current uses adjacent to the Project facilities will be able to continue mainly unchanged after construction, thereby preserving desirable community and rural land use patterns. Following construction, agricultural activities along the transmission line route can continue outside of the small area occupied by the transmission structures and the Badger Creek Switching Station footprint.

Water used for dust suppression along access roads and for mixing concrete for transmission structure foundations and switching station foundations will be acquired from commercial and/or municipal sources holding valid water rights. No long-term use of water will be required for the Project. No new water rights will be required for the Project's construction, operation, and maintenance activities.

12.2 Physical and Socio-Economic Development

According to the United States Census Bureau, Morgan County had a total estimated population of 29,111 in 2020. This is an increase of approximately 3% for Morgan County since the 2010 Census.

The Project will deliver economic benefits to rural communities across eastern and southern Colorado, including Morgan County, over the short-term. During construction, revenue may increase for some local businesses such as restaurants, gas stations, grocery stores, hotels, as

well as other local businesses. Existing businesses, health care facilities, and social services are adequate to support the Project due to the small size of the construction crew and temporary nature of the construction activities.

Once the Project is constructed, it may indirectly facilitate job creation and additional tax revenue by availing more opportunities for placement of interconnection facilities. As a result, renewable energy developers will have the opportunity to build projects that otherwise were infeasible due to transmission constraints. These energy generation projects may provide other additional economic development through increasing employment opportunities associated with construction and thereby local sales and use tax revenues, as well as payments to affected landowners for obtaining easements on private properties.

12.3 Air Quality

Morgan County is in attainment with National Ambient Air Quality Standards for all criteria pollutants (USEPA 2022). Criteria pollutants include ozone, particulate matter, carbon monoxide, nitrogen oxides, sulfur dioxide, and lead.

Construction activities associated with the Project will generate less than significant amounts of particulate matter from soil disturbances and diesel-powered equipment, and less than significant amounts of carbon monoxide and the precursor pollutants to ozone formation from tailpipe emissions. The short-term effects are not expected to cause a public nuisance. If a nuisance arises during construction, the nuisance will be mitigated in coordination with Morgan County.

It is anticipated that an average of two to three trucks per day will be utilized during construction of the transmission line, with more deliveries anticipated in the first week of construction mobilization. The impact to local roads will vary by phase of construction. The construction of the Badger Creek Switching Station will involve mostly personal vehicle trips for construction workers of 10 to 12 trips per day. There will be daily concrete truck deliveries made when the foundations and piers are constructed. There will be multiple deliveries of yard rock (up to 100 per day) and cement (up to 20 per day) required at certain stages of construction. Water trucks will be utilized during construction activities to suppress dust from vehicles and equipment, as necessary.

There will be no long-term air quality effects associated with the routine operation and maintenance of the transmission line and switching station in Morgan County. During operation, the Project will not generate trips in excess of those currently experienced as the transmission line and Badger Creek Switching Station facilities represent a passive use and will not be staffed. The transmission line and switching station will not require on-site staff and will be monitored remotely. Visits from personnel will be limited to emergencies or maintenance and inspection activities and increased fumes, exhaust, and dust during operation is not expected.

12.4 Water Resources

Wetlands, floodplains, rivers/streams, marshes, and other surface water features are shown on the maps in **Appendix B**.

In Morgan County, the Project will not be expected to have significant, adverse impacts on surface water or groundwater resources. Badger Creek and Sand Arroyo Creek floodplains will be crossed by the Proposed Route. Appropriate Best Management Practices (BMPs) will be implemented to minimize effects on both floodplains. The Proposed Route will cross two creeks, which can be spanned by the transmission line. The Proposed Route will also cross seven wetlands, which the transmission line will span.

Prior to commencing construction activities, Tri-State will coordinate with applicable state and federal agencies to obtain permits and implement BMPs to minimize impacts to water resources and water quality. Specifically, Tri-State will obtain Colorado Discharge Permit System coverage from CDPHE for stormwater discharges associated with construction activities. Tri-State will also consult with the owners and/or operators of irrigation canals and water wells for locations where the proposed transmission line crosses or parallels these facilities. Tri-State will acquire all necessary United States Army Corps of Engineers permits for temporary or permanent impacts to wetlands and conduct wetland delineations, as needed, to determine if wetlands may be present in and around proposed transmission structure locations, work sites, and/or along access roads needed for construction, operation, and maintenance activities.

Prior to commencing Project construction activities, Tri-State will also conduct geotechnical investigations to determine the location of and depth to groundwater resources to avoid and/or minimize impacts to these resources.

Minimal amounts of water will be used during Project construction. Water for construction purposes, including mixing concrete for transmission structure foundations and spraying access roads and work areas for dust control, will be brought in from off-site sources by a construction water provider. The source of the construction water will be from a private well owned by the construction water company or from other commercial sources or a municipality. No existing water rights will be impacted by the Project transmission line. If water is needed for revegetation around transmission structures or temporary access roads, the construction water provider will supply the water. During construction activities, it is unlikely the Project will affect groundwater. No water wells will be drilled for the Project. Excavations for transmission structures may contact very shallow groundwater; however, the groundwater contact will be unlikely to adversely impact this resource because of erosion control measures that will be implemented during construction.

No water will be required for the ongoing operation or maintenance of the transmission line or switching station.

12.5 Geological Resources

Project facilities will be located in areas mapped as gravel, alluvium, and eolian deposits. A geotechnical study based on soil borings at the Badger Creek Switching Station site and along the length of the transmission line will be conducted for the Project. Engineers will use this study to determine the size and type of foundations needed to support switching station equipment and transmission line structures as well as soil resistivity. The Project will traverse two floodplains: Badger Creek floodplain and Sand Arroyo Creek floodplain. Appropriate BMPs will be implemented to minimize potential impacts to both areas. A Phase I Environmental Site Assessment will be completed for the proposed Badger Creek Switching Station site and will include a review of historical resources and regulatory records, as well as interviews with

persons with knowledge of the site's previous land uses and a site reconnaissance visit, to confirm there are no recognized environmental conditions attributable to historical uses of the Badger Creek Switching Station development area.

12.6 Biological Resources

A desktop analysis of the portion of the Project within Morgan County was completed to characterize the environmental setting of the Project and evaluate the potential for occurrence of special-status species based on available habitat data. The analysis included the transmission line route plus a one-mile buffer. The one-mile buffer also included the Badger Creek Switching Station. The one-mile buffer was used to evaluate biological resources that could be influenced by Project construction or operation (e.g., raptor nests). To assess the potential for occurrence of special-status species within the County, the following publicly available information was reviewed:

- Google Earth Aerial Imagery (Google 2022)
- National Land Cover Database (NLCD 2019)
- USFWS Information for Planning and Consultation online tool (USFWS 2022b)
- USFWS Critical Habitat Portal (USFWS 2022c)
- Colorado Parks and Wildlife (CPW) Species Activity Mapping Data (CPW 2022a)
- CPW State Species List (CPW 2022b)
- Online species profiles and distribution information (CPW 2022c)

Ground-based raptor nest surveys and aerial raptor nest surveys will be conducted before construction to identify potentially active eagle and other raptor nests within 0.5 miles of the proposed transmission line route and the Badger Creek Switching Station.

Tri-State is in the process of coordinating with CPW staff to identify sensitive habitats and species of concern that have the potential to occur in the Project area.

12.6.1 Management Areas and Priority Habitat

Federal, state, and local agencies designate areas to help conserve habitats critical to migratory birds and other sensitive species (e.g., National Wildlife Refuges, National Grasslands, state parks, and state wildlife areas). There are no federally or state-managed conservation areas within one mile of the proposed Project facilities in Morgan County. In addition, no USFWS-designated Critical Habitat is mapped in the Project area (USFWS 2022c).

Beyond these priority habitats, the Project will avoid or minimize impacts to habitat to the extent practicable. Impacts to most vegetation will be temporary and limited to the 150- to 200-foot-wide ROW and TCAs. Measures will be implemented to minimize the spread of noxious weeds in the ROW. To avoid or minimize impacts to aquatic habitat within the ROW, surface waters, riparian areas, and wetlands will be spanned as practicable. The Project will adhere to environmental protection measures and erosion control measures outlined in the prospective SWMP.

12.6.2 Wildlife

Threatened and Endangered Species

In Morgan County, the Proposed Route does not cross critical habitat for threatened and endangered species or big game winter range. Thus, impacts to such species and big game wildlife are not anticipated in conjunction with the Project's construction, operation, and maintenance activities.

Threatened (T) and endangered (E) species that may be present near the Proposed Route include the eastern black rail (T), piping plover (T), whooping crane (E), monarch butterfly (potentially threatened), Suckley's cuckoo bumble bee (potentially endangered), western regal fritillary (potentially threatened), Utes ladies'-tresses (T), western prairie fringed orchid (T), and pallid sturgeon (E). Bald and/or golden eagles also may be present near the Proposed Route (USFWS 2022). Tri-State will implement measures to avoid or minimize impacts to potential habitat for these species. These measures may include but are not limited to timing construction to avoid periods during which these species may be present in and/or near the vicinity of the Proposed Route.

Migratory Birds and Raptors

Near the Proposed Route, 13 species of migratory birds and raptors include bald eagle, broad-tailed hummingbird, chestnut-collared longspur, chimney swift, ferruginous hawk, golden eagle, grasshopper sparrow, long-billed curlew, long-eared owl, mountain plover, northern harrier, red-headed woodpecker, and thick-billed longspur (USFWS 2022). Prior to commencing Project construction activities, Tri-State will conduct presence/absence surveys for migratory birds and raptors. Project construction activities will be timed to avoid nesting season, which extends from April 15 to September 1, to the extent practicable.

Common Wildlife Species

Potential impacts to common wildlife species would primarily be associated with temporary disturbance from construction activities within the ROW. In addition, increased noise and equipment movement during construction may temporarily impact wildlife species. These impacts are considered short-term in duration and normal wildlife movements would be expected to resume after construction has been completed and disturbed areas have been restored to preconstruction conditions.

In summary, sensitive natural resources were considered in identifying the locations for the transmission line and switching station to minimize potential impacts. Impacts to wetlands will be avoided or minimized by careful placement of the switching station and transmission structures. Transmission structures are sited in locations that will avoid conflicts with irrigation equipment and its operation to the extent practicable. Impacts to rivers and streams will be avoided or minimized by placing transmission structures outside the waterway and spanning the waterbody. Locations of known sensitive species habitat have been mapped and are avoided where practicable. Conservation areas, wildlife refuges, and wildlife areas will be avoided where practicable. Seasonal restrictions are implemented to avoid constructing near habitat during certain seasons (such as nesting) as recommended by CPW and USFWS guidance. Electrical components of the transmission line and switching station will be separated to minimize the risk of avian contact. Tri-State will continue to coordinate with wildlife agency representatives

regarding the Project throughout planning, design, construction, maintenance, and operations, and will comply with all regulatory requirements.

12.7 Visual Aesthetics/Resources

The existing visual landscape in the area around the proposed Project facilities consists of mainly agricultural land uses including center pivot irrigated crops and pastureland. Trees are sparse and shrub/scrub and herbaceous land cover dominate the area. Industrial facilities present near Project facilities include oil and gas wells, communication facilities, and oil and gas pipelines. Electric distribution lines are visible throughout the area and are generally located along roads to serve residential and commercial areas. There are several existing high voltage transmission lines and electrical substations in Morgan County (HIFLD 2022). Other linear infrastructure, including railroads, Interstate Highways, U.S. Highways, and state and local roads exist in proximity to the Project. Where feasible, the Project route through Morgan County is co-located along this existing infrastructure to minimize impacts to the surrounding area. The transmission line and Badger Creek Switching Station will be visible to viewers with direct, open views. Viewers located farther away are likely to experience less visual impact because the existing screening (topography, vegetation, buildings) and distance from the facilities will decrease potential views.

12.7.1 Badger Creek Switching Station

The Badger Creek Switching Station will be located along an existing high-voltage transmission line corridor. The switching station will operate as a private, unstaffed facility requiring few maintenance visits during operation and can be considered a passive use of land. Only a small portion of the switching station will be fenced. The Badger Creek Switching Station will not significantly alter viewsheds, scenic vistas, unique landscapes, or land formations.

12.7.2 Transmission Line

The Proposed Route through Morgan County is co-located along several county roads to reduce visual impacts. The majority of the transmission line will be composed of tangent wooden H-frame structures to resemble a natural look. Visual impacts of the transmission line will vary based on proximity and with distance such that the scale of the transmission line structures will be minimized. The visual landscape along the route features existing transmission lines, roadways, and industrial elements, and the Project will result in an incremental increase in transmission structures in the viewshed.

Existing undisturbed trees, shrubs, and native vegetation will be preserved and maintain visual contrast in the landscape. Following construction, the ROW will be restored in a manner generally similar to pre-construction conditions.

12.8 Noise Impacts and Nuisance Factors

The CPUC provides reasonableness determinations associated with noise and requires CPCN applicants to evaluate the expected level of noise of the proposed transmission facilities. Tri-State is required to meet state standards as outlined in the Code of Colorado Regulations (Section 4 Code of Colorado Regulations 723-3).

Construction-related noise will result in temporary short-term increases in noise in areas where construction and staging are taking place. Construction vehicles and equipment will be maintained in proper operating condition and equipped with manufacturer's standard noise control devices (e.g., mufflers or engine enclosures).

Indirect effects from post-construction activities, which include the noise from transmission line inspections and maintenance activities are anticipated to be negligible because of their short duration and infrequency.

All high-voltage transmission lines experience corona during wet weather, when water droplets form on the line. While it is not inherently harmful, corona may exhibit noise similar to a hissing sound. Noise levels for the transmission lines were modeled and concluded that at 25 feet from the edge of the ROW, noise levels will be at most 45 A-weighted decibels under all operation conditions, which is less than the 50 A-weighted decibels threshold allowed in Residential areas under CPUC Rule 3206(f. The projected noise levels from the Project were deemed reasonable by the CPUC and not subject to further review.

12.9 Land Use

The Project is located within unincorporated Morgan County in the Agriculture Zone (A) district (Morgan County 2022). The Badger Creek Switching Station is also located in parcels zoned as Agriculture (A). As set forth in Section 2-150 of Morgan County's Land Use Code, site selection and construction of major facilities of a public utility is an activity of state interest that requires a 1041 permit. Section 3-170(H) of Morgan County's Land Use Code states, "A major facility of a public utility for which a development permit has been issued" is one of the "Agriculture Zone Uses-By-Right".

Per the 2008 Morgan County Comprehensive Plan, there are several goals within the Land Use Element applicable to the Project: (1) To encourage development where the proposed development is compatible with existing land uses; (2) encourage the preservation of agriculture production lands in balance with pressures for land use changes to higher intensity development; and (3) encourage the preservation of agricultural production land to ensure continuation of this important industry (Morgan County 2008). The Project is sited within agricultural zone districts within Morgan County and is compatible with agricultural use. Although it is not an agricultural use, it is a necessary land use that is commonly located in agricultural areas and does not conflict with the purpose of the Agricultural District. The site has been carefully planned to minimize its impact to agricultural productivity and the rural landscape by paralleling d corridors that have been previously disturbed to the extent feasible. Tri-State has established procedures to determine crop damages resulting from construction activities and compensate for them.

Temporary impacts to agricultural activities are expected to be minor. Disturbed areas surrounding new transmission structures will be revegetated following construction. Construction and operation of the transmission line will not interfere with continued use of the surrounding areas for agricultural uses. Tri-State will avoid the removal of landscaping where possible. Disturbed areas will be returned to preconstruction conditions or reseeded according to landowner requests and Morgan County requirements.

12.9.1 Existing Utilities

A map showing existing electric infrastructure, including substations and transmission lines, within Morgan County is provided in **Appendix A**.

The purpose of the Project is to create a network transmission system that can integrate new generation resources needed to meet Colorado's clean energy goals. The current electric transmission facilities in the Eastern Plains do not have adequate capacity to meet the forecast demand.

12.9.2 Public Outdoor Recreation Areas

There are no local public outdoor recreation areas in the vicinity of the Project facilities in Morgan County (USGS 2022b). No impacts to recreation areas are anticipated.

12.10 Unique Areas of Historic or Archaeological Importance

Tri-State hired Tetra Tech, Inc (Tetra Tech) to conduct a site file search and literature review through the Colorado Office of Archaeology and Historic Preservation online platform COMPASS in December 2024. This database includes records of all archaeological investigations that have been conducted and records of previously recorded historic sites, precontact sites, paleontological sites, isolated finds, and properties listed on the National Register of Historic Places within a two-mile-wide Research Area. For the purposes of this review, the area encompassing the transmission line and associated infrastructure is referred to as the Project Area and the one-mile buffer surrounding the Project Area is referred to as the Research Area. Tetra Tech also reviewed historic Bureau of Land Management General Land Office records, historic maps, and historic imagery to determine whether vestiges of trails, transportation routes, homesteads, or other historic resources may be present in the Research Area.

It is estimated that approximately 10% of the Project Area has previously been inventoried for cultural resources. 5 cultural resource sites have been recorded within the two-mile-wide Research Area in Morgan County through numerous previously conducted surveys. Of these five, only one is in the Project Area. The Beaver Creek – Hoyt transmission line is Recommended Eligible for listing in the NRHP. Of the remaining four in the Lincoln County Research Area, two have No Data, one is a centennial farm marked Not Assessed, and one is Determined Not Eligible.

Prior to construction, all supervisory construction personnel will be instructed on the protection of cultural resources with reference to relevant laws and penalties, and the need to cease work in the location if cultural resource items are discovered. Ground-disturbing activities have the potential to disturb intact subsurface artifacts, features, or materials. However, should any previously unknown historic/prehistoric sites or artifacts be encountered during construction, all land altering activities at that location shall be immediately suspended and the discovery left intact until such time that appropriate measures are taken to assure compliance with the National Historic Preservation Act and enabling legislation. A similar process shall apply if paleontological resources are discovered during excavations.

12.11 Transportation

Construction of the Project is not expected to cause significant effects to Morgan County's transportation network and any impacts will be temporary in nature. Work crews will mobilize each day from the laydown yard to the work areas. Traffic to local work areas will be limited to personal vehicles belonging to work crews, required construction equipment, and equipment delivery vehicles. It is not anticipated that construction equipment or work crew transportation will have a significant impact on traffic volumes or flow on local roadways or state/county highways. Any increases in traffic will be short-term in nature and limited to the construction time period near individual transmission structures.

The Project will cross or be located near State Highway 71 and the following County Roads: B, D, F, 13, 14, 17, 18, 19, 20, and 22. Traffic will be delayed temporarily for the time it takes to string conductor across the road. Traffic Control Plans will be developed in areas where travel on roadways could be impacted during construction. Construction updates and schedules will be discussed with local government officials as needed as details are determined. Road use and ROW permits will be obtained from Morgan County as needed prior to construction.

The Project does not cross any railroads in Morgan County; as such, no impacts to railroads are anticipated.

The Project is not located within the approach or departure zone of any airports in Morgan County. The closest airport to the Project route within Morgan County is approximately 16 miles north of any Project facilities. Therefore, no impacts to airports are anticipated. Tri-State will file transmission structure locations with the FAA as necessary.

12.12 Public Support Facilities and Impacts

The Project will not require additional community or local government services beyond those currently provided in the area. The Project creates no additional demand for transportation infrastructure, educational facilities, housing, water (other than trucked-in water for construction), sewage or wastewater treatment, or public transportation. The Project will not impact services provided by special districts and will not affect the location of special districts.

12.13 Impact on Public Finances

The Project is estimated to cost approximately $80 million. Project construction will require substantial amounts of contract labor, while also providing local jurisdictions with additional tax revenue. Once the Project has been completed, it will help drive ongoing job opportunities and employment in the renewable energy industry with facilities that may interconnect to the Project.

13.0 ADDITIONAL INFORMATION FOR TRANSMISSION LINES AND SUBSTATIONS (3-305(3)(F))

The sections that follow address Section 3-305(3)(f) for applicants seeking a permit for the site selection and construction of transmission lines or substations.

13.1 Electric and Magnetic Fields

The Project facilities will be designed, constructed, operated, and maintained to meet or exceed applicable standards of design and performance set forth in the NESC.

Electric and magnetic fields (EMF) exist wherever electricity is produced or used, including around any electric appliance or wire that conducts electricity. Electric fields are created by voltage—the higher the voltage, the stronger the field. Any time an electric appliance is plugged in, even if it is not on, an electric field is created in its vicinity. Electric fields are easily blocked by walls, trees, clothes, and skin. The farther the distance from the source of the electric field, the weaker it becomes. EMF extend outward from the conductor wire and decrease rapidly with distance from the conductor. There is no federal standard for transmission line EMF.

An EMF study was conducted for the Project and submitted as part of the Project's CPCN application. The study concluded that magnetic field levels would be below 150 milligauss and were deemed reasonable by the CPUC. No related impacts to human health and safety are anticipated.

13.2 Prudent Avoidance Measures

The Colorado PUC requires a utility to apply the concept of prudent avoidance with respect to planning, siting, construction, and operation of substations and transmission facilities. Prudent avoidance incorporates efforts to strike a reasonable balance between the potential health effects of exposure to magnetic fields and the cost and impacts of mitigating such exposure, by taking steps to reduce the exposure at reasonable or modest cost. Such steps might include but are not limited to: (1) design alternatives considering the spatial arrangement or phasing of conductors; (2) routing lines to limit exposures to areas of concentrated population and group facilities such as schools and hospitals; (3) installing higher structures; (4) widening ROW corridors; and (5) burial of lines. This Project maintains suitable distances from sensitive group receptors like schools and hospitals. No residences are located within 0.25 miles of the transmission line.

The Routing Study process used to locate Project facilities in Morgan County is summarized in Section 1.0 and **Appendix A** of this Application. In September 2022, the CPUC provided approval for the CPCN for the Project determining the Project is in the public interest and in compliance with relevant CPUC rules and regulations.

14.0 COMPLIANCE WITH APPROVAL CRITERIA

In accordance with Section 3-306 of the Morgan County §1041 Regulations, this section describes how the Project routing and site selection, construction, maintenance, and operation comply with the approval criteria for the Board of County Commissioners approval of this Application. Each criterion from Section 3-306 is listed, followed by a description of how the Project will comply.

i. *The health, welfare, and safety of the citizens of this County will be protected and served.*

The Project is a necessary capital improvement to expand the existing electric transmission grid system in Colorado. The location, construction, and operation of the Project will comply with all federal, state, and local regulations.

All Project facilities also will be designed, constructed, operated, and maintained to meet applicable standards of design and performance set forth in the NESC. Impacts to environmental resources such as air, water, waste, noise, and public health will be minimal and limited to the construction period.

The Project will be designed to minimize the risks from natural hazards such as high winds and floods. Additional information on design and hazard avoidance and mitigation is provided in Sections 1.0 and 12.0.

ii. *The natural and socio-economic environment of this County will be protected and enhanced.*

The Project facilities are sited to minimize impacts to natural resources as described in Section 1.0 and **Appendix A**. Tri-State will implement environmental protection measures during construction to mitigate and minimize adverse impacts to the natural environment (**Appendix F**). The Project will enhance the socioeconomic environment in Morgan County during the construction period via increased revenue to local businesses and social services and will provide local jurisdictions with additional property tax revenue. Once the Project has been completed, it will help drive ongoing job opportunities and employment in the renewable energy industry with facilities that may interconnect to the Project.

iii. *All reasonable alternatives to the proposed action, including use of existing rights-of-way and joint use of rights-of-way, wherever uses are compatible, have been adequately assessed and the proposed action represents the best interests of the people of this County and represents the best utilization of resources in the impact area.*

The design and need of the proposed Project have been approved by the CPUC and represents the use and application of best technology and industry standards for transmission and transformation of electric energy. The Routing Study was prepared to identify and evaluate a reasonable and feasible range of transmission line route alternatives for the Project. The analyses of alternatives evaluated in the Routing Study and feedback from public and key stakeholders were used to determine the proposed preferred locations for the Project facilities in Morgan County. The portions

of the Project in Morgan County as described in this Application represent the best interests of the people in the County and the best utilization of resources in the impact area.

iv. *A satisfactory program to mitigate and minimize adverse impacts has been presented.*

The Project will mitigate and minimize adverse impacts as described in Section 12.0. During construction, Tri-State will implement its environmental protection measures to mitigate and minimize adverse impacts to the natural environment.

v. *The nature and location or expansion of the facility complies with all applicable provisions of the master plan of this County, and other applicable regional, metropolitan, state, and national plans.*

The Project is consistent with county, regional, metropolitan, and state master plans or comprehensive plans. As described in Section 12.9, the Project complies with the Morgan County Comprehensive Plan (Morgan County 2008). The Project is sited within "Agriculture" zone districts within Morgan County and is compatible with agricultural use. The transmission line alignment spans existing irrigation ditches and center pivot irrigation systems in fields to minimize effects to existing agricultural operations. Aside from the small footprint of the individual transmission structures and the Badger Creek Switching Station, areas under and around the Project facilities can continue in agricultural use. Regarding transportation, the Project will mitigate impacts to County roads through use of BMPs and traffic control during construction and post-construction restoration.

vi. *The nature and location or expansion of the facility complements the existing and reasonably foreseeable needs of the service area and of the area immediately affected by the facility.*

The Project will not negatively affect the existing and reasonably foreseeable needs of the service area, or the area immediately affected by the facility. The Project will not cause a significant change in land use in the immediate area. Current uses adjacent to Project facilities will be able to continue mainly unchanged after construction of this Project thereby preserving desirable community and rural land use patterns. Following construction, agricultural activities along the transmission line route can continue outside of the small area occupied by the transmission structures and the Badger Creek Switching Station footprint.

vii. *The nature and location or expansion of the facility does not unduly or unreasonably impact existing community services.*

The Project will not unduly or unreasonably affect existing community services. Please refer to the response to Criterion viii below.

viii. *The nature and location or expansion of the facility will not create an expansion of the demand for government services beyond the reasonable capacity of the community or region to provide such services, as determined by the Board.*

The Project will not require additional local government services beyond those currently provided in the area. The Project creates no additional demand for

transportation infrastructure, educational facilities, housing, water (other than water for construction), wastewater treatment, or public transportation.

As described in Section 3.6.b., during construction, it is anticipated that an average of two to three delivery trucks per day will be utilized during the construction of the transmission line, with more expected during the first week of construction mobilization. The impact to local roads will vary day-by-day as the Project moves along the route. The construction of the Badger Creek Switching Station will involve mostly personal vehicle trips for construction workers of 10 to 12 trips per day. A staging area on the switching station site will be designated for truck traffic to deliver materials to the switching station; these trips will be approximately one to two trips per week. Concrete will be delivered via concrete trucks, and the concrete will be pumped or poured on-site. There will be a large number of concrete truck deliveries when the foundations and piers are constructed. To mitigate any potential impacts to County roads, Traffic Control Plans will be prepared and followed during construction.

ix. *The facility site or expansion area is not in an area with general meteorological and climatological conditions which would unreasonably interfere with or obstruct normal operations and maintenance.*

The Project is not located in an area with meteorological or climatological conditions which would unreasonably interfere with normal operations and maintenance. The Project is designed to minimize the risks from natural hazards such as high winds and floods.

x. *The nature and location of the facility or expansion will not adversely affect the water rights of any upstream, downstream, or agricultural users, adjacent communities, or other water users.*

Minimal amounts of water will be used during Project construction. Water for construction purposes, including concrete foundations and dust control, will be brought in from off-site sources by a construction water provider. The source of the construction water will be from a private well owned by the construction water company or from other commercial sources or a municipality. No existing water rights will be impacted by the Project transmission line. If water is needed for revegetation around transmission structures or temporary access roads, the construction water provider will supply the water. During construction activities, it is unlikely the Project will affect groundwater. No water wells will be drilled for the Project. Excavations for transmission structures may contact very shallow groundwater; however, the groundwater contact will be unlikely to adversely impact this resource because of erosion control measures that will be implemented during construction (**Appendix F**).

No water will be required for the ongoing operation or maintenance of the transmission line or switching station.

xi. *Adequate water supplies are available for facility needs.*

Water to be used during construction will be obtained from a local, permitted source. The Project will not require water use during operation.

xii. *The nature and location of the facility or expansion will not unduly interfere with any existing easements for or rights-of-way, for other utilities, canals, mineral claims, or roads.*

As part of the land rights process, Tri-State will identify any existing easements or ROWs for other utilities, canals, mineral claims, or roads and will not cause any undue interference with existing easements or ROWs during construction and operation of the Project.

xiii. *Adequate electric, gas, telephone, water, sewage, and other utilities exist or shall be developed to service the site.*

The Project facilities will not require gas, water, sewage, or other utility service in Morgan County.

xiv. *The nature and location for expansion of the facility will not interfere with any significant wildlife habitat or adversely affect any endangered wildlife species, unique natural resource, or historic landmark within the impact area.*

Sensitive natural resources and wildlife interests were considered in identifying the preferred location for the Badger Creek Switching Station and transmission line to minimize potential interference from the Project facilities. In addition, Tri-State is in the process of coordinating with CPW representatives regarding the Project. The Project will not affect unique natural resources or historic landmarks in Morgan County.

xv. *The nature and location or expansion of the facility, including expected growth and development related to the operation and provision of service, will not significantly deteriorate water or air quality in the impact area.*

The Badger Creek Switching Station will introduce new impervious area, mainly consisting of a gravel switching station pad and Class 5 road base driveway. The drainage design will incorporate permanent drainage and detention facilities to mitigate impacts from construction. The drainage design will accommodate the requirements set forth by the Colorado Floodplain and Stormwater Criteria Manual. An extended detention basin will provide detention, water quality treatment, and flow rate control. The drainage design will reduce the peak discharge from the site for all storm events and will specifically demonstrate that the peak discharge for the 100-year event will be reduced to a rate less than the peak discharge of the pre-development 10-year event. An SWMP will be developed and Tri-State will coordinate with Morgan County and incorporate drainage facilities at the switching station as required in order to not significantly deteriorate water or air quality in the impacted area.

Construction activities will be performed by methods that prevent entrance or accidental spillage of solid matter, contaminants, debris, and other pollutants and wastes into flowing streams or dry watercourses, lakes, and underground water sources. All activities will follow environmental protection measures for the management of wastes to avoid and minimize effects from potential spills or other releases to the environment (**Appendix F**).

Construction of the transmission line will not create runoff in excess of previous site levels and will not change existing topography or adversely affect drainage. There will be no alteration in the pattern or intensity of surface drainage as a result of construction or operation of the transmission line.

Tri-State will comply with permit application requirements, Morgan County planning standards, and construction protocol to ensure that the Project does not affect water quality. Prior to construction, a Stormwater Permit for Construction Activities will be obtained from the Colorado Department of Public Health and Environment for disturbances over an acre and a site-specific SWMP will be developed.

Short-term effects to air quality are anticipated from a temporary increase in construction vehicles, which may increase fumes and fugitive dust, construction equipment exhaust (fumes), and clearing and preparing areas for construction (dust). The short-term effects are not expected to cause a public nuisance. If a nuisance arises during construction, the nuisance will be mitigated in coordination with Morgan County. Switching station operations will not require on-site staff and will be monitored remotely. Visits from personnel will be limited to emergencies or periodic maintenance and inspection activities and increased fumes, exhaust, and dust during operation is not expected.

xvi. *The geological and topographic features of the site are adequate for all construction, clearing, grading, drainage, vegetation, and other needs of the facility construction or expansion.*

Tri-State will conduct geotechnical investigations to identify potential geologic hazards along the transmission line alignment and at the Badger Creek Switching Station location. Based on current investigations and local knowledge, Tri-State has determined that the only geological hazards associated with the Project are the two floodplains it crosses: Badger Creek floodplain and Sand Arroyo Creek floodplain.

The landscape along the Project facilities in Morgan County is flat with little variation in topography. The Project will not significantly change the existing topography. The transmission line is designed to conform with existing topography and the proposed Badger Creek Switching Station has been sited to minimize the amount of grading necessary due to existing topography.

xvii. *The existing water quality of affected state waters will not be degraded below state and federal standards or established baseline levels.*

Construction activities will be performed by methods that prevent entrance or accidental spillage of solid matter, contaminants, debris, and other pollutants and wastes into flowing streams or dry watercourses, lakes, and underground water sources. All activities will follow environmental protection measures for the management of wastes to avoid and minimize effects from potential spills or other releases to the environment (**Appendix F**).

Water quality will be maintained during construction through environmental protection measures and the site-specific SWMP. The Project will not impact the quantity or quality of water flowing off of the site. The transmission line will span

streams and waterways that cross the corridor and impacts to state waters will be avoided to the extent practicable.

xviii. *The proposed project will not have a significantly adverse net effect on the capacities or functioning of streams, lakes, and reservoirs in the impact area, nor on the permeability, volume, recharge capability, and depth of aquifers in the impact area.*

The transmission line would span or avoid any wetlands, streams, lakes, and reservoirs. Water quality will be maintained during construction through environmental protection measures and the prospective site-specific SWMP. The Project will not impact the aquifers in the Project area.

xix. *The benefits of the proposed developments outweigh the losses of any natural resources or reduction of productivity of agricultural lands as a result of the proposed development.*

Construction and operation of the Project will result in minimal permanent impacts to natural resources or agricultural lands. The development of the Project in Morgan County is anticipated to provide local economic benefits during construction and potential long-term economic benefits should new generation resources be developed in the area. The Project will also improve the state's electric reliability and reduce curtailment, therefore benefiting Tri-State customers.

xx. *The applicant has obtained or will obtain all property rights, permits, and approvals necessary for the proposed project, including surface, mineral, and water rights and easements for drainage, disposal, utilities, access, etc. If the applicant has not obtained all necessary property rights, permits and approvals, the Board may; at its discretion, grant the permit conditioned upon completion of the acquisition of such rights prior to issuance of a zoning or building permit by Morgan County.*

Before commencing construction, Tri-State will acquire the required easements for the transmission line ROW and thereby will hold a recognized property interest in the land on which the Project is proposed. All easements required for construction of the Project will be secured and recorded prior to the start of construction.

xxi. *The proposed project will not present an unreasonable risk of exposure to or release of toxic or hazardous substances within the impact area. The determination of effects of the Project shall include the following considerations:*

a. *The means by which outdoor storage facilities for fuel, raw materials, equipment, and related items are adequately enclosed by a fence or wall.*

Hazardous materials used during construction and operation will be used and disposed of in compliance with all applicable federal, state, and local regulations. Enclosed containment will be provided for trash disposal. Construction waste, including trash and litter, garbage, other solid waste, petroleum products, and other potentially hazardous materials, will be removed and taken to a disposal facility authorized to accept such materials. There will be no significant amount of hazardous materials stored in the Project area.

b. *The likelihood of hazardous materials or wastes being moved off the site by natural causes or forces.*

Construction, operation, and maintenance activities will comply with applicable federal, state, and local laws and regulations regarding the use of hazardous substances. Construction activities will be performed by methods that prevent entrance or accidental spillage of solid matter, contaminants, debris, and other pollutants and wastes into flowing streams or dry watercourses, lakes, and underground water sources. All activities will follow environmental protection measures for the management of wastes to avoid and minimize effects from potential spills or other releases to the environment (**Appendix F**).

c. *Containment of inflammable or explosive liquids, solids, or gases.*

Chemicals that may be used during construction and operation would be stored within TCAs, as set forth in (xxi)(a) above. Tri-State prohibits the storage of flammable materials, the construction of flammable structures, and other activities that have the potential to cause or provide fuel for fires on its property. There are no explosive substances associated with the Project.

xxii. *The scope and nature of the proposed project will not create duplicate services within Morgan County.*

The scope of the Project does not duplicate any existing services within Morgan County. The Project fills a need for a network transmission line facility to connect demand centers with areas of the state best situated for wind and solar generation projects.

xxiii. *If the purpose and need for the proposed project are to meet the needs of an increasing population within the County, area and community development and population trends demonstrate clearly a need for such development.*

The purpose and need for the Project is to meet the state's growing electricity needs; improve electric safety, reliability, and affordability; and help facilitate renewable energy development by providing more opportunities for placement of interconnection facilities. Load growth stems from local and regional population increases, as well as commercial, industrial, and residential development. Under load growth scenarios, the current transmission system can become constrained, thereby limiting Tri-State's and the State of Colorado's ability to meet emissions reduction goals. The facilities associated with this Project will result in a more robust, resilient transmission system in rural Colorado, which is increasingly critical with the growing reliance on renewable energy resources and the potential for future extreme weather events.

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APPENDIX A TRANSMISSION LINE ROUTING STUDY

February 23, 2024

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

Big Sandy to Badger Creek Transmission Project

Final Transmission Routing Study

PROJECT NUMBER:
0247368

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POWER ENGINEERS

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Final Transmission Routing Study

PREPARED FOR: TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.
PREPARED BY: RITA RUDERMAN
[redacted]

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EXECUTIVE SUMMARY

Tri-State Generation and Transmission Association, Inc. (Tri-State) contracted POWER Engineers, Inc. (POWER) to prepare a Transmission Routing Study (Routing Study) for its planned 230-kilovolt (kV) overhead, single-circuit electric power transmission line between its existing Big Sandy Substation and a potential site for its planned Badger Creek Switching Station (Big Sandy to Badger Creek Transmission Project or Project). Big Sandy Substation is situated just north of Limon, in unincorporated Lincoln County, Colorado. The potential site for the planned Badger Creek Switching Station is a 40-acre parcel situated in unincorporated Morgan County, Colorado.

Applying a five-step process, POWER identified five route alternatives for evaluation and comparison: Route Alternatives A, B, C, D, and E. All route alternatives parallel linear facilities and land use features, to the extent practicable, including roads, transmission lines, and field edges. The five route alternatives are situated largely in the central portion of the Project Study Area where land uses presented more opportunities for routing than in other parts of the Project Study Area. Route Alternative C emerged as the preliminary preferred route.

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ACRONYMS AND ABBREVIATIONS

CPW	Colorado Parks and Wildlife
GIS	Geographic Information System
kV	Kilovolt
POWER	POWER Engineers, Inc.
Project	Big Sandy to Badger Creek Transmission Project
Routing Study	Transmission Routing Study
ROW	Right-of-Way
Tri-State	Tri-State Generation and Transmission Association, Inc.

1.0 INTRODUCTION

1.1 Project Overview

Tri-State Generation and Transmission Association, Inc. (Tri-State) contracted POWER Engineers, Inc. (POWER) to prepare a Transmission Routing Study (Routing Study) for its planned 230-kilovolt (kV) overhead, single-circuit electric power transmission line between its existing Big Sandy Substation and a potential site for its planned Badger Creek Switching Station (Big Sandy to Badger Creek Transmission Project or Project). Big Sandy Substation is situated just north of Limon, in unincorporated Lincoln County, Colorado. The location for the new Badger Creek Switching Station is not yet final. However, a 40-acre parcel was identified as a potential site for the purposes of routing the new 230-kV transmission line. The 40-acre parcel is situated in unincorporated Morgan County, Colorado.

1.2 Scope of Routing Study

The scope of this Routing Study is to identify four (4) route alternatives for the planned 230-kV transmission line between Big Sandy Substation and Badger Creek Switching Station. During the course of this Routing Study, a variation to one of the four route alternatives created a fifth route alternative. This Routing Study does not provide information concerning detailed design and engineering, permitting, right-of-way (ROW) acquisition, or construction, operation, and maintenance activities for the planned 230-kV transmission line. These activities will occur in subsequent phases of the Project.

2.0 ROUTING STUDY APPROACH

A five-step process was used to identify route alternatives for the planned 230-kV transmission line. The steps include:

» Step 1 **Define the Project Study Area**. Setting geographic boundaries helps focus the study effort and provides flexibility to identify viable route options.

» Step 2 **Collect data**. Land use and environmental resource data must be collected and mapped to identify opportunities and constraints for routing the transmission line.

» Step 3 **Assign sensitivity levels**. Low, moderate, and high sensitivity levels and exclusion areas are assigned to land use and environmental resource data.

» Step 4 **Identify opportunities and constraints**. Mapping the sensitivity levels helps identify opportunities and constraints for routing the transmission line.

» Step 5 **Identify route alternatives**. A network of route links are developed. The links are connected to form end-to-end route alternatives for evaluation and comparison. This step is described in **Section 3.0 – Route Alternatives**.

2.1 Project Study Area Definition

POWER coordinated with Tri-State to define the Project Study Area, which covers approximately 4,700 square miles in portions of Adams, Arapahoe, Elbert, Lincoln, Morgan, Washington, and Weld counties, Colorado. The Project Study Area was sized to allow the Project team to identify a reasonable and feasible range of transmission line route alternatives. **Figure 1** in **Appendix A** shows the Project Study Area.

2.2 Data Inventory and Mapping

Land use and environmental resource data were collected from online databases available in the public domain and from local, state, and federal government agencies. A general list of the data considered in the Routing Study is outlined below. **Appendix B** includes a detailed list of the routing criteria that were used to evaluate and compare route alternatives.

» Land Use and Land Jurisdiction

- Agricultural, commercial, industrial, and residential uses
- Community facilities including schools, churches, hospitals, and parks and recreational facilities
- Transportation facilities including roads, railroads, and airports
- Utility infrastructure including oil and gas pipelines and wells, water wells, electric power transmission lines, wind energy facilities, and communication towers
- Local, state, and federal government land holdings
- Conservation easements

» Environmental Resources

- Threatened and endangered species habitat

- Surface water resources including wetlands and streams/rivers
- Floodplains and flood hazard areas
- Geologic hazard areas including landslide areas, karst topography, and faults
- Cultural resources including archaeological sites and sites listed on the National Register of Historic Places
- Visual/aesthetic resources including scenic byways

Documentation of the inventoried data included a combination of mapped, written, and tabular elements. Mapped information was organized using a geographic information system (GIS) database. The GIS data was used to depict resources in the Project Study Area, assess resource sensitivity, identify opportunities and constraints to routing, and identify, evaluate, and compare route alternatives for the transmission line.

2.3 Land Use and Environmental Resource Sensitivity

Identification of routing opportunities and constraints was based on an analysis of the sensitivity of each resource to the Project. Resource sensitivity is defined as a measure of the probable adverse response to direct and indirect effects associated with construction, operation, and maintenance of the planned transmission line. In determining the sensitivity of a resource to the Project, the following factors were qualitatively considered:

» **Resource Value**
- A measure of rarity, high intrinsic worth, singularity, or diversity of a resource in the Project Study Area.

» **Protective Status**
- A measure of the formal concern expressed for a resource, either through legal protection or by designation of special status, by law or ordinance.

» **Present and Future Uses**
- A measure of the level of conflict based on policies of land management and/or use, community values, and political opinion.

» **Hazards**
- A measure of the degree to which a resource represents a significant hazard to the Project's construction, operation, or maintenance.

Considering the factors described above, the land use and environmental resource data were evaluated and assigned a sensitivity level of low, moderate, high, and exclusion as defined below. The lower the sensitivity of a resource, the more compatible it would be for routing a transmission line near that resource.

» **Low Sensitivity**

Areas where resource conflicts with the Project identified through the Routing Study process are minimal. These areas of low sensitivity are considered to be of minimal constraint, or high opportunity, for routing a transmission line. For the purpose of this Routing Study, examples of low sensitivity areas include electric power transmission lines, oil and gas pipelines, railroads, and highways, as well as locations with low-density residential development, prime farmland where route alternatives can be

aligned along field edges to minimize impacts to irrigated crops, dry farmland, and rangeland/pastureland.

» **Moderate Sensitivity**

Areas of potential environmental effects due to Project impacts on important or valued resources, resources assigned protective status, or some conflict with current or future use of the resources. Locations of moderate sensitivity are considered to be moderate constraint areas and less desirable than low sensitivity areas for routing a transmission line. For the purpose of this Routing Study, examples of moderate sensitivity areas include cemeteries, hospitals, churches, schools, scenic byways, wind turbines, and Colorado Parks and Wildlife (CPW)-managed properties.

» **High Sensitivity**

Areas determined to be less suitable because of unique, highly valued, complex, historic, or protected resources and significant potential conflict with the Project, or areas posing substantial hazards to construction and operation of the transmission line. Locations of high sensitivity are considered to be high constraint or least desirable for routing a transmission line. For the purpose of this Routing Study, examples of high sensitivity areas include locations of sensitive cultural resources and conservation easements.

» **Exclusion Areas**

Areas determined to be unsuitable for the Project because of unique, highly valued, complex, or legally protected resources; significant potential conflict between the Project and existing or planned use; and areas posing substantial hazard to the Project's construction, operation, or maintenance. These areas may also represent significant cumulative impacts from the interaction between resources. For purposes of refining the route alternatives, these areas should be avoided. For the purpose of this Routing Study, examples of exclusion areas include airport approach surfaces and associated zones extending from the ends of runways where development is restricted.

» **Opportunity Area**

Locations where there are opportunities for the introduction of a transmission line. Routing opportunities generally include areas of low sensitivity and locations in proximity to, or including, existing or planned linear facilities and corridors that have been disturbed previously or have been designated for future use as utility corridors or industrial use(s). Typically, such opportunities include existing transmission lines (44-kV and greater), major transportation corridors (county roads, state highways, and federal highways), pipeline corridors, and railroads that potentially allow for co-locating parallel linear facilities.

Table 1 presents the assigned levels of sensitivity and constraint specific to different land use and environmental resource features based on the definitions above. Once the sensitivity levels were assigned, GIS analysis was used to create a composite sensitivity map for biological resources, cultural resources, existing land uses, and visual resources in the Project Study Area. **Figure 2A** in **Appendix A** shows the composite sensitivity where low, moderate, high, and exclusion areas exist in the Project Study Area for land use and environmental resources. **Figure 2B** in **Appendix A** shows the composite engineering sensitivity where low (0-10%), moderate (11-25%), and high/steep (> 25%) slopes exist in the Project Study Area.

TABLE 1 SENSITIVITY LEVELS FOR LAND USE AND ENVIRONMENTAL RESOURCES

RESOURCE FEATURE	SENSITIVITY LEVEL	OPPORTUNITY AREA
Land Use		
Agricultural Land		
Irrigated Lands	Low	X
Prime Farmland	Low	X
Pasture / Dry Farmland	Low	X
Commercial and Industrial Properties		
Commercial and Industrial Buildings	Low	X
Residential Properties		
Low-density Residential Development	Low	X
Community Facilities		
Cemeteries	Moderate	--
Hospitals	Moderate	--
Schools	Moderate	--
Places of Worship	Moderate	--
Transportation Facilities		
Airport Approach Surfaces and Runways	Exclusion	--
Local, State, and Federal Highways	Low	X
National Scenic Byway	Moderate	--
Railroad	Low	X
Special Use Airspace*	Low	X
Military Training Routes**	Low	X
Utility Infrastructure		
Communication Towers	Low	X
Electric Power Transmission Lines	Low	X
Oil and Gas Pipelines and Wells	Low	X
Wind Turbines	Moderate	--
Environmental Resources		
Floodplains and Flood Hazard Zones	Low	X
Wetlands and Streams/Rivers	Low	X
National Register of Historic Places Sites	High	--
CPW-managed Properties	Moderate	--
Conservation Easements	High	--
Karst Topography, Landslide Areas, and Fault Lines	Moderate	--

*Special Use Airspace is only present in the Project Study Area's southwest corner and the lowest flight altitudes for this airspace are 3,000 feet above ground level. **Figure 1** shows the Special Use Airspace in the Project Study Area.
Military Training Routes crisscross the Project Study Area's central and eastern portions and the lowest flight altitudes are 300 feet above ground level. **Figure 1 shows the Military Training Routes in the Project Study Area.

2.4 Routing Opportunities and Constraints

2.4.1 Routing Opportunities

Identification of opportunities for routing the planned transmission line was based on an analysis of the sensitivity that a resource may exhibit to introducing the transmission line into the Project Study Area. Opportunities for routing the Project's facilities include locations that:

- Use existing compatible ROWs, including transmission lines, railroads, highways, and pipelines.
- Parallel existing compatible ROWs.
- Parallel property lines, section lines, or half-section lines.
- Minimize impacts on private property owners.
- Minimize impacts on productive agricultural uses.
- Maximize the use of existing access and minimize new access road construction.
- Facilitate efficient and cost-effective transmission line design and construction.

2.4.2 Routing Constraints

Four primary constraints for routing the planned transmission line were identified:

- Limon Municipal Airport
- Xcel Energy's existing Limon I and Limon II Wind Energy Facilities just north of Limon
- Conservation easements in the Project Study Area's western portion
- Checkerboard pattern of State of Colorado-managed properties throughout the majority of the Project Study Area

These features influenced the route links and route alternatives described below.

3.0 ROUTE ALTERNATIVES

3.1 Introduction

A network of route alternatives was developed to connect the existing Big Sandy Substation and the potential site for the planned Badger Creek Switching Station. POWER used a combination of Google Earth satellite imagery, land use and environmental resource data, field reconnaissance visits, and the results of the GIS opportunities and constraints analysis. Route alternatives include smaller components called "links" to allow for tracking of resource data. **Figure 3** in **Appendix A** shows the network of transmission line route links that were developed. Links are combined to form route alternatives.

Five end-to-end route alternatives were identified for evaluation and comparison: Route Alternatives A, B, C, D, and E. **Figure 4** in **Appendix A** shows these route alternatives. **Table 2** lists the route links that form these route alternatives. For clarity, the links below are listed in the order in which they form each end-to-end route alternative from Big Sandy Substation to the planned Badger Creek Switching Station.

TABLE 2 ROUTE ALTERNATIVES AND ROUTE LINK COMBINATIONS

ROUTE ALTERNATIVE	ROUTE LINK COMBINATION
A	Links 5, 10, 15, 131, 130, 125, 115, 90, 85, 80, 75
B	Links 5, 10, 15, 131, 130, 125, 115, 120, 65, 60, 55, 51, 33, 40, 35
C	Links 6, 11, 21, 26, 31, 32, 33, 40, 35
D	Links 5, 10, 15, 20, 25, 23, 34
E	Links 5, 10, 15, 131, 130, 125, 115, 120, 65, 60, 55, 45, 40, 35

3.2 Description of Route Alternatives

All route alternatives parallel linear facilities and land use features, to the extent practicable, including roads, transmission lines, and field edges. The five route alternatives are situated largely in the central portion of the Project Study Area. The southwestern portion of the Project Study Area includes a concentration of conservation easements that generally constrain the ability to route the transmission line in this area. The route alternatives avoid crossing conservation easements as other areas provide a more direct connection between the existing Big Sandy Substation and the potential site for the planned Badger Creek Switching Station.

3.3 Evaluation and Comparison of Route Alternatives

Appendix B lists the routing criteria that were used to calculate land use and environmental resource data for each link and subsequently evaluate and compare the end-to-end route alternatives. Among the routing criteria included for this Routing Study, length of line, number of parcels crossed, miles of roads and transmission lines paralleled, number of residences within 100 feet of each route alternative's centerline, and the number of angle structures were the key

differentiators used for the route alternatives' evaluation and comparison. Environmental resource sensitivity, natural and cultural resources crossed, and community facilities, among the other criteria, were generally less important when evaluating and comparing the route alternatives because of the lack of these resources and facilities in the Project Study Area.

3.3.1 Route Alternative A

Route Alternative A extends for approximately 81 miles and crosses 107 parcels. This route alternative parallels approximately 50 miles of roads and approximately 12 miles of electric power transmission lines. It crosses an Xcel Energy 345-kV transmission line once just north of Limon and a WAPA 115-kV transmission line twice. No residences are situated within 100 feet of the route. Six residences are situated within 300 feet of the route. Route Alternative A does not cross areas of high visual resource sensitivity, high biological resource sensitivity, or high cultural resource sensitivity. Concerning constructability, Route Alternative A includes 36 angles that are greater than or equal to 30 degrees.

3.3.2 Route Alternative B

Route Alternative B extends for approximately 82 miles and crosses 115 parcels. This route alternative parallels approximately 62 miles of roads and approximately two miles of electric power transmission lines. It crosses two transmission lines – an Xcel Energy 345-kV line once just north of Limon and a WAPA 115-kV line twice. No residences are situated within 100 feet of the route. Seven residences are situated within 300 feet of the route. Route Alternative B does not cross areas of high visual resource sensitivity, high biological resource sensitivity, or high cultural resource sensitivity. Concerning constructability, Route Alternative B includes 35 angles that are greater than or equal to 30 degrees.

3.3.3 Route Alternative C

Route Alternative C extends for approximately 72 miles and crosses 98 parcels. This route alternative parallels approximately 15 miles of roads and approximately 51 miles of electric power transmission lines. It crosses a Mountain View Electric Association 345-kV line once just north of Limon and a WAPA 115-kV line six times. No residences are situated within 100 feet or 300 feet of the route. Route Alternative C does not cross areas of high visual resource sensitivity, high biological resource sensitivity, or high cultural resource sensitivity. Concerning constructability, Route Alternative C includes 18 angles that are greater than or equal to 30 degrees.

3.3.4 Route Alternative D

Route Alternative D extends for approximately 80 miles and crosses 114 parcels. This route alternative parallels approximately 61 miles of roads and approximately 10 miles of electric power transmission lines. It crosses three transmission lines – an Xcel Energy 345-kV line once just north of Limon, a WAPA 115-kV line twice, and a Tri-State 115-kV line once. Two residences are situated within 100 feet of the route. Thirteen residences are situated within 300 feet of the route. Route Alternative D does not cross areas of high visual resource sensitivity, high biological resource sensitivity, or high cultural resource sensitivity. Concerning constructability, Route Alternative D includes 38 angles that are greater than or equal to 30 degrees.

3.3.5 Route Alternative E

Route Alternative E extends for approximately 82 miles and crosses 118 parcels. This route alternative parallels approximately 65 miles of roads and approximately two miles of electric power transmission lines. It crosses two transmission lines – an Xcel Energy 345-kV line once just north of Limon and a WAPA 115-kV line twice. No residences are situated within 100 feet of the route. Seven residences are situated within 300 feet of the route. Route Alternative E does not cross areas of high visual resource sensitivity, high biological resource sensitivity, or high cultural resource sensitivity. Concerning constructability, Route Alternative E includes 36 angles that are greater than or equal to 30 degrees.

3.4 Conclusion

After evaluating and comparing the five route alternatives, Route Alternative C emerged as the preliminary preferred route. Route Alternative C:

- Extends the shortest distance between the Project termini at 71.7 miles.
- Crosses the fewest parcels (98).
- Extends the shortest distance across private land at 71.7 miles.
- Parallels existing transmission lines for the longest distance at 50.6 miles.
- Crosses near two existing substations – Last Chance and South Woodrow. Route Alternative C's proximity to these substations could be advantageous for future development.
- Has no residences situated within 0.25 mile.
- Includes the fewest angle structures (18).
- Crosses the fewest miles of prime farmland at 3.1 miles.

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APPENDIX A ROUTING STUDY MAPS

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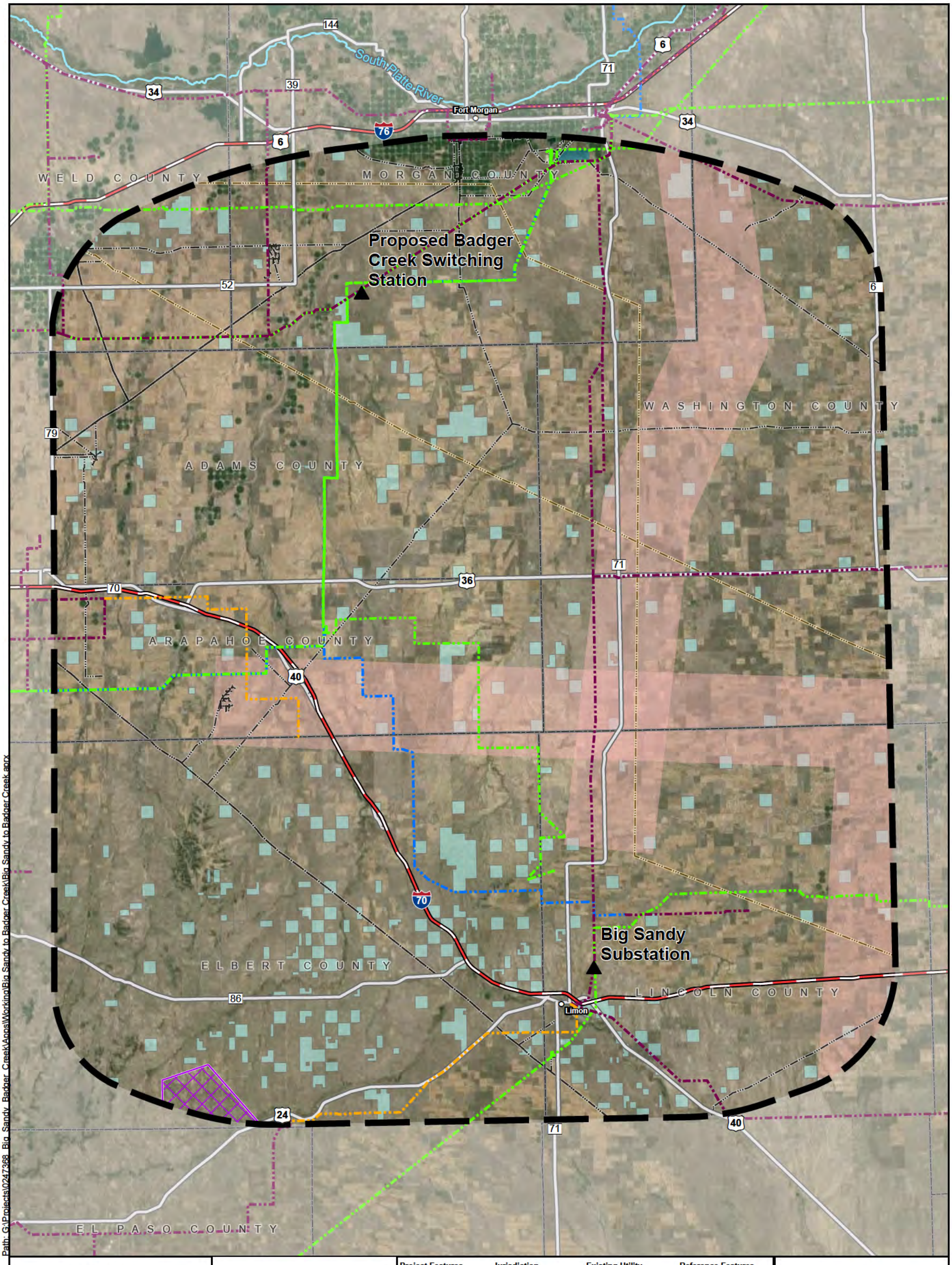

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FIGURE 1
PROJECT STUDY AREA

0 5 10
Miles

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

ADAMS, ARAPAHOE, ELBERT, LINCOLN, MORGAN, WASHINGTON, AND WELD COUNTIES, COLORADO

NAD 1983 StatePlane Colorado North FIPS 0501 (US Feet)

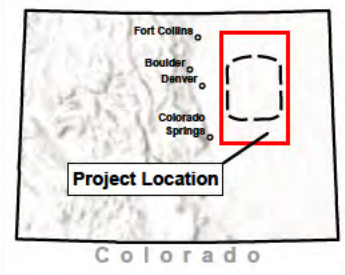
Map Rev: 1 | **Date: 2/20/2024**

Project Features
- Project Terminus
- Project Study Area

Jurisdiction
- State of Colorado
- Local Ownership
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- 69 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- City/Town
- Interstate Highway
- State Highway
- US Highway
- County Boundary
- Special Use Airspace
- Military Training Route



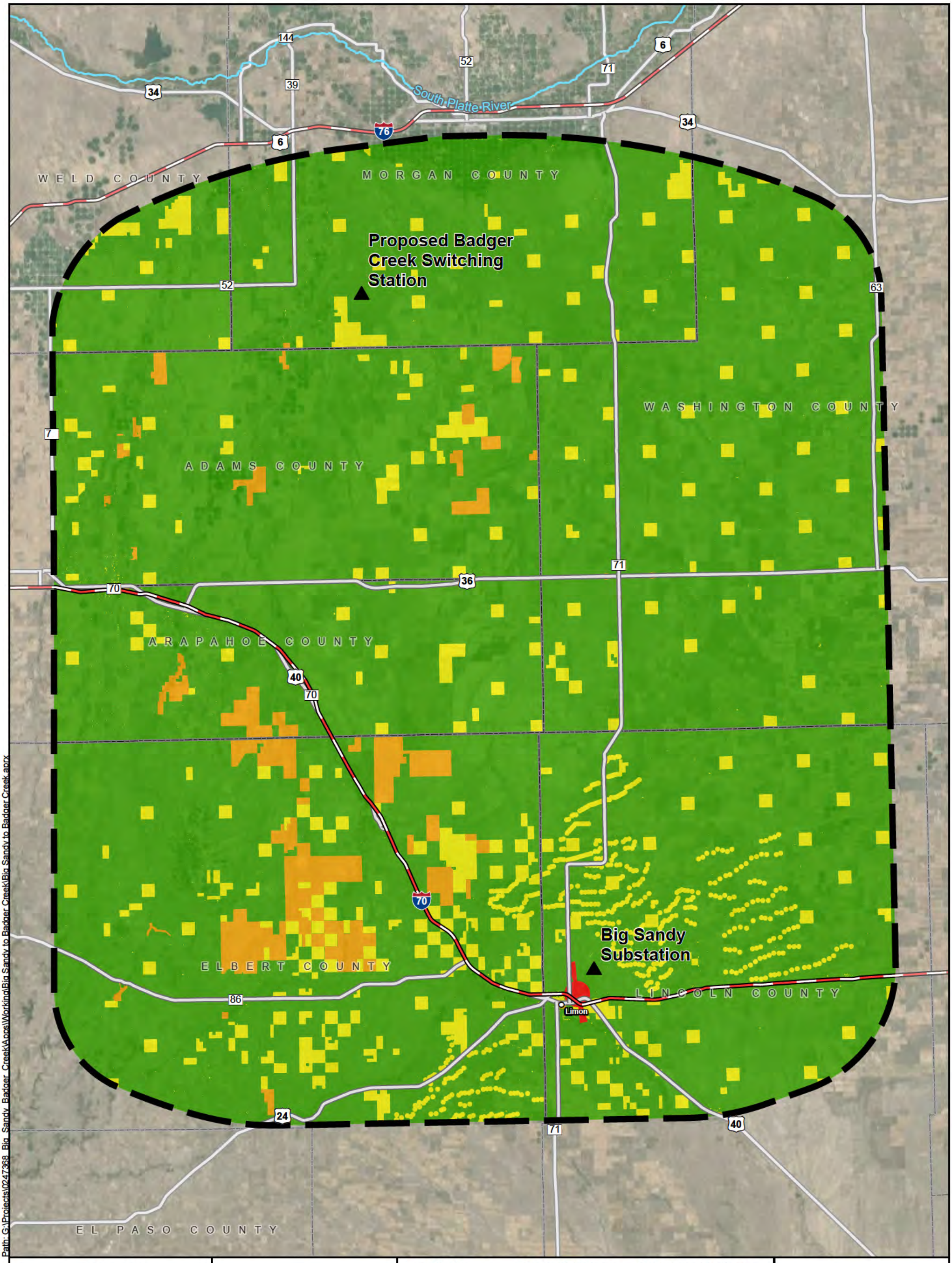


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FIGURE 2A
ENVIRONMENTAL SENSITIVITY

0 5 10
Miles

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

ADAMS, ARAPAHOE, ELBERT, LINCOLN, MORGAN, WASHINGTON, AND WELD COUNTIES, COLORADO

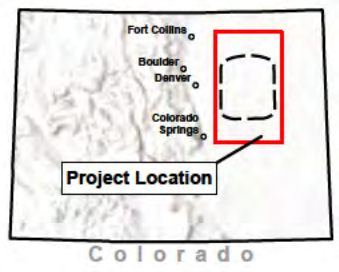
NAD 1983 StatePlane Colorado North FIPS 0501 (US Feet)

Map Rev: 1 | **Date: 2/20/2024**

Sensitivity
- Exclusion
- High
- Moderate
- Low

Project Features
- Project Terminus
- Project Study Area

Reference Features
- City/Town
- Interstate Highway
- State Highway
- US Highway
- County Boundary



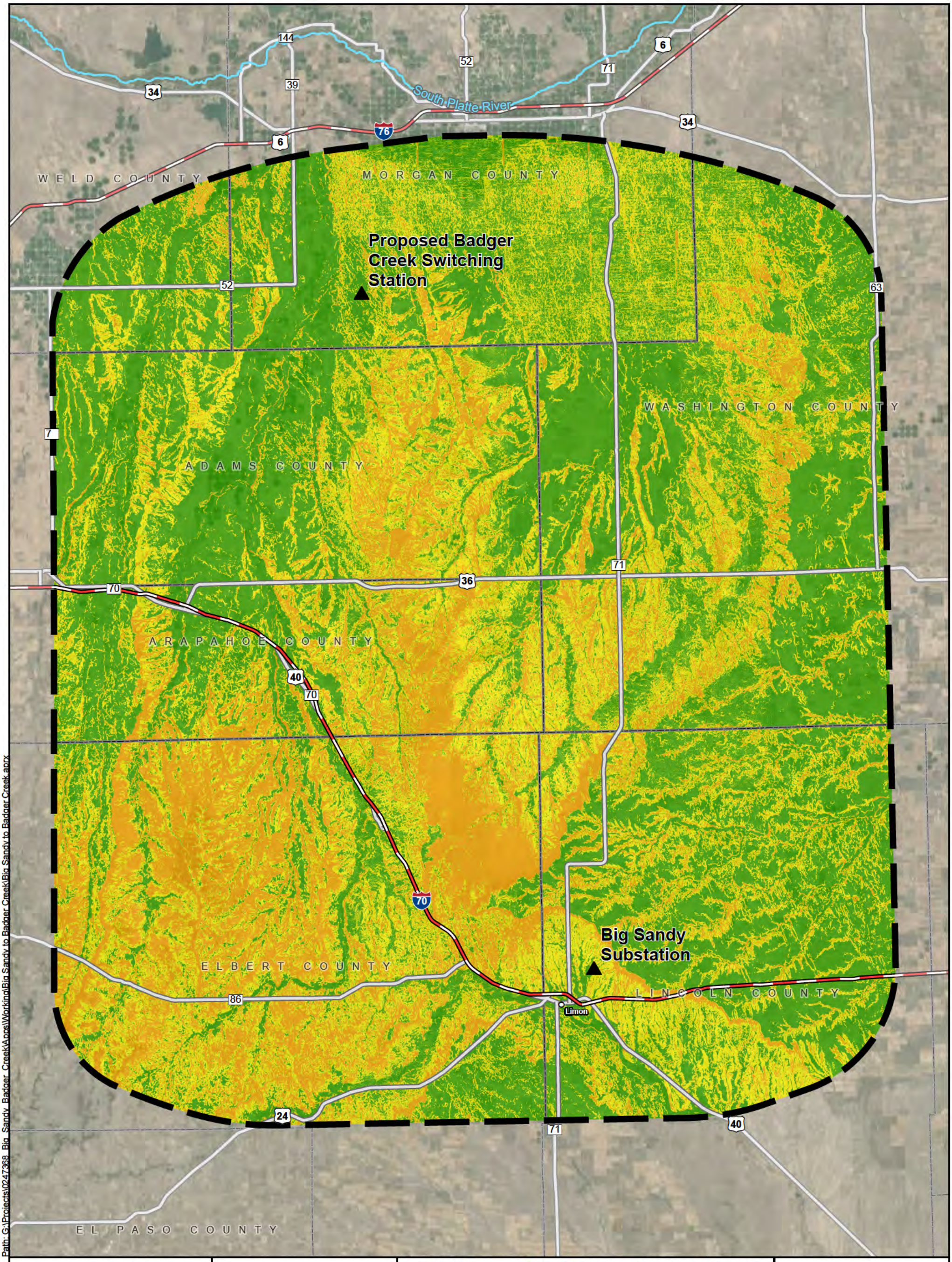


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FIGURE 2B
ENGINEERING SENSITIVITY

0 5 10
Miles

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

ADAMS, ARAPAHOE, ELBERT, LINCOLN, MORGAN, WASHINGTON, AND WELD COUNTIES, COLORADO

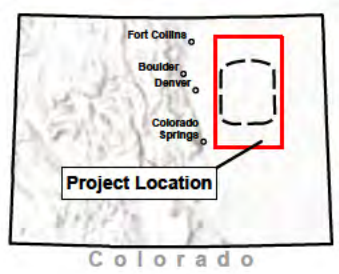
NAD 1983 StatePlane Colorado North FIPS 0501 (US Feet)

Map Rev: 1 | **Date: 2/20/2024**

Sensitivity
- High
- Moderate
- Low

Project Features
- Project Terminus
- Project Study Area

Reference Features
- City/Town
- Interstate Highway
- State Highway
- US Highway
- County Boundary



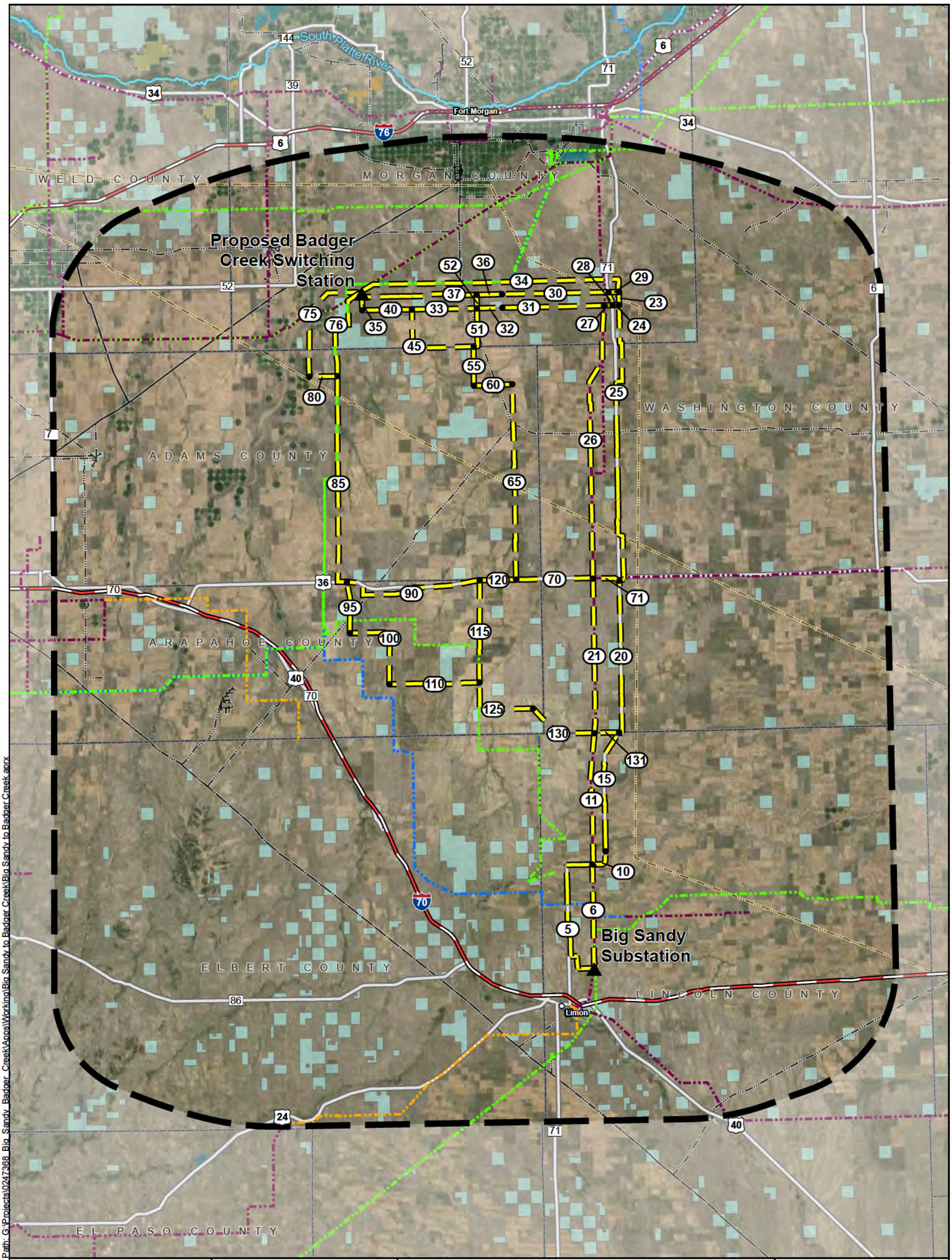


FIGURE 3
ROUTE LINKS

0 5 10
Miles

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

ADAMS, ARAPAHOE, ELBERT, LINCOLN, MORGAN, WASHINGTON, AND WELD COUNTIES, COLORADO

NAD 1983 StatePlane Colorado North FIPS 0501 (US Feet)

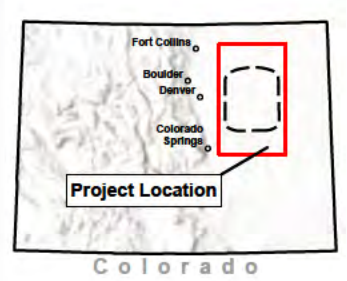
Map Rev: 1 | **Date: 2/20/2024**

Project Features
- Project Terminus
- Preliminary Link Node
- Preliminary Route Link
- Project Study Area

Jurisdiction
- Bureau of Land Management
- Bureau of Reclamation
- State of Colorado
- Local Ownership
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- 69 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- City/Town
- Interstate Highway
- State Highway
- US Highway
- County Boundary



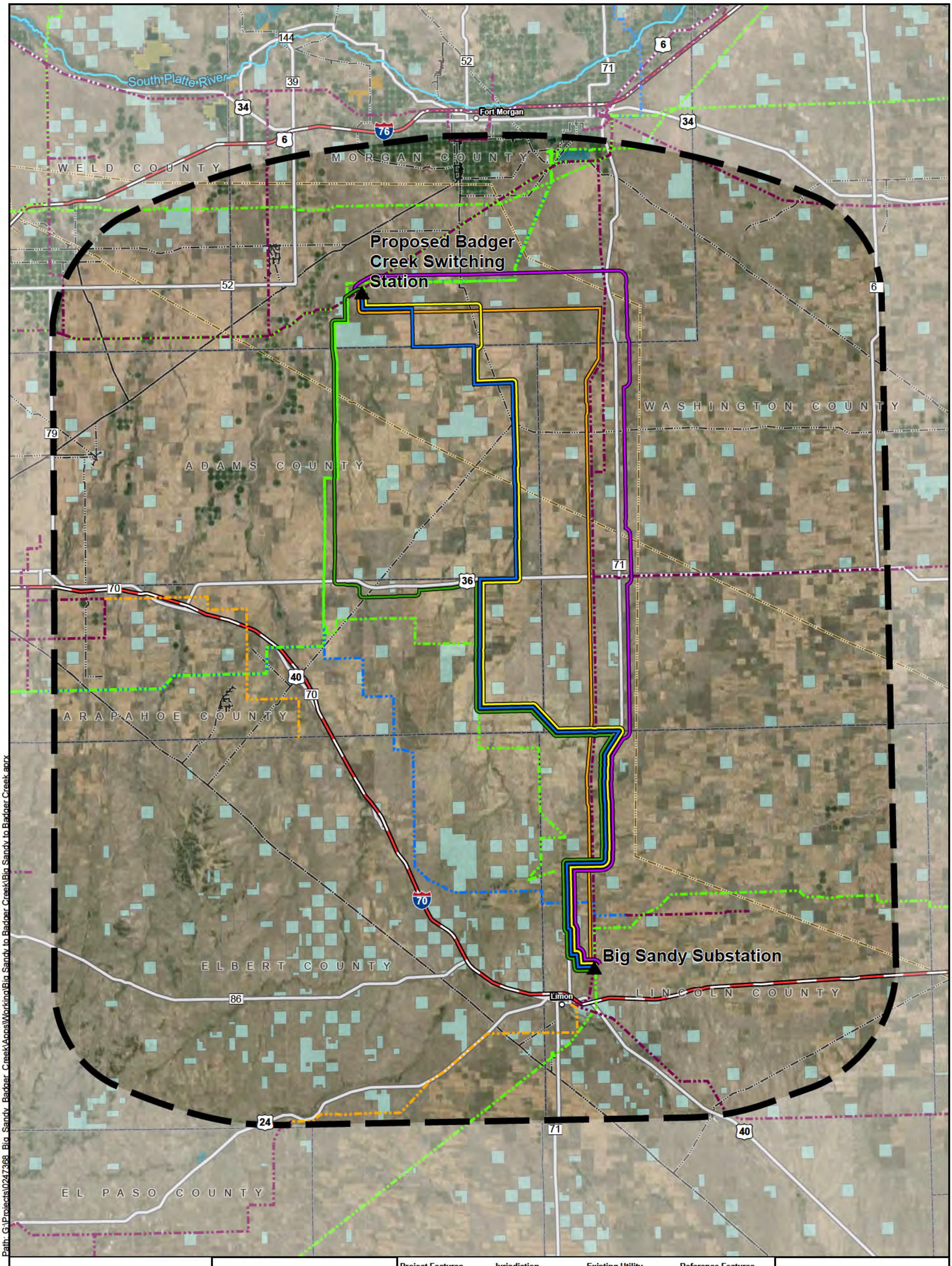


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FIGURE 4
ROUTE ALTERNATIVES

0 5 10
Miles

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

ADAMS, ARAPAHOE, ELBERT, LINCOLN, MORGAN, WASHINGTON, AND WELD COUNTIES, COLORADO

NAD 1983 StatePlane Colorado North FIPS 0501 (US Feet)

Map Rev: 1 | **Date: 2/20/2024**

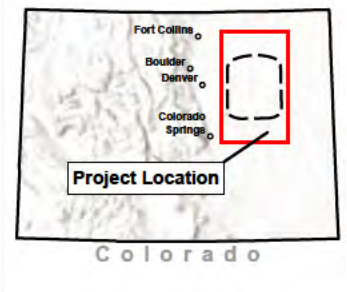
Project Features
- Project Terminus
- Preliminary Route A
- Preliminary Route B
- Preliminary Route C
- Preliminary Route D
- Preliminary Route E
- Project Study Area

Jurisdiction
- Bureau of Land Management
- Bureau of Reclamation
- State of Colorado
- Local Ownership
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- 69 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- City/Town
- Interstate Highway
- State Highway
- US Highway
- County Boundary

NOTE: Route alternatives are offset for visual effect only.



APPENDIX B ROUTING STUDY DATA TABLES

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Tri-State Generation and Transmission Association, Inc.
Big Sandy to Badger Creek Transmission Project
Route Links Data - Sheet 1 of 3
February 2024

Routing Criteria	Route Links														
	5	6	10	11	15	20	21	23	24	25	26	27	28	29	30
Mileage, Parcel Count, and Land Jurisdiction															
Length of Line, in miles	10.0	8.1	3.9	10.3	9.6	12.0	12.0	1.0	0.5	22.3	21.5	0.7	1.0	0.8	8.2
Number of Parcels Crossed	14.0	10.0	7.0	16.0	15.0	16.0	8.0	3.0	3.0	27.0	36.0	2.0	4.0	3.0	13.0
Miles of Federal Government Land Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of State of Colorado Land Crossed	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Local Government Land Crossed, excluding Private Land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Private Land Crossed	10.0	8.1	3.9	10.2	9.6	12.0	12.0	1.0	0.5	22.3	21.5	0.7	1.0	0.8	8.2
Parallel Facilities															
Miles Parallel to Local, State, and Federal Roads, excluding Scenic Byways	6.3	-	3.8	2.1	9.4	11.5	0.0	1.0	0.5	15.2	5.8	0.2	1.0	0.0	3.4
Miles Parallel to Scenic Byways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Railroads	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Transmission Lines	0.1	7.5	-	10.0	-	-	12.0	-	-	-	22.0	0.1	-	-	-
Miles Parallel to Pipelines	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-
Miles Parallel to Irrigation Canals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Agricultural Land															
Miles Across Pasture Land/Hay/Barren (NLCD)	8.9	6.0	0.3	7.1	4.5	9.6	11.9	0.2	0.5	10.7	13.0	0.6	0.7	0.8	8.1
Miles Across Irrigated Crops	-	-	-	-	-	-	-	0.2	-	2.4	-	-	-	0.0	-
Miles Across Prime Farmland	0.5	0.6	0.2	1.1	0.8	-	-	0.1	0.1	0.8	-	0.0	0.0	0.1	-
Residential Uses															
Number of Residences within 100 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Residences within 300 Feet	1	-	1	-	3	1	-	-	-	3	-	-	1	-	-
Number of Residences within 660 Feet	3	-	2	-	6	2	-	-	-	3	-	-	2	-	-
Number of Residences within 0.25 Mile	7	-	2	-	7	3	-	-	-	8	-	-	2	-	-
Natural and Cultural Resources															
Miles of Biological Resources Crossed: Critical Habitat and Big Game Winter Range	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Floodplains / Flood Hazard Areas Crossed	-	-	-	-	-	-	-	1.0	0.5	2.7	-	0.1	0.5	0.6	-
Miles of Colorado Parks and Wildlife Lands Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Colorado Parks and Wildlife Conservation Waters Crossed	0.5	0.2	-	-	-	-	-	0.7	-	1.7	0.6	-	-	0.4	-
Number of Stream / River Crossings - Perennial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Wetland Crossed (NWI)	0.1	-	-	0.1	-	0.0	0.0	0.0	-	0.1	0.5	-	-	0.0	0.1
Number of National Register of Historic Places Sites within 0.25 Mile	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Conservation Easements Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Geohazards Crossed: Karst Topography, Fault Lines, and Landslide Areas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Community Facilities															
Miles of Parks and Open Spaces Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Parks and Open Spaces within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Places of Worship within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Schools within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Hospitals within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Cemeteries within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Resource Sensitivity															
Miles of Exclusion Composite Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Composite Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Moderate Composite Sensitivity Crossed	0.5	1.7	1.0	1.3	0.7	-	-	-	-	-	-	-	-	-	-
Miles of Low Composite Sensitivity Crossed	10.0	8.1	3.9	10.2	9.6	12.0	12.0	1.0	0.5	22.3	21.5	0.7	1.0	0.8	8.2
Engineering Resource Sensitivity															
Miles of High Engineering Sensitivity Crossed	0.7	0.4	0.1	1.4	0.9	2.3	2.4	-	-	0.5	1.4	0.0	-	-	0.0
Miles of Moderate Engineering Sensitivity Crossed	4.9	4.1	0.2	3.0	4.0	6.2	6.5	0.3	0.0	3.4	3.3	0.1	0.5	0.1	2.2
Miles of Low Engineering Sensitivity Crossed	4.4	3.6	3.6	5.8	4.7	3.5	3.0	0.7	0.5	18.4	16.8	0.6	0.5	0.7	6.1
Resource Sensitivity															
Miles of High Visual Resource Sensitivity Crossed (NRHP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Biological Resource Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Cultural Resource Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous															
Number of Angles > or = 30 Degrees	7	4	2	4	6	1	-	-	-	12	6	-	-	-	-
Number of Airstrips Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Airport Approach Surface Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Military Training Routes / Military Operations Areas Crossed	-	-	-	9.1	9.5	12.0	11.0	-	-	9.3	-	-	-	-	-
Number of Oil / Gas Wells within 200 Feet	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-
Number of Water Wells within 200 Feet	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Number of Wind Turbines within 1,000 Feet	3	11	4	7	3	-	-	-	-	-	-	-	-	-	-
Number of Communication Towers within 1,000 Feet	3	4	-	3	-	2	-	-	-	-	1	-	-	-	-

Tri-State Generation and Transmission Association, Inc.
Big Sandy to Badger Creek Transmission Project
Route Links Data - Sheet 2 of 3
February 2024

Routing Criteria	Route Links												
	31	32	33	34	35	36	37	40	45	51	52	55	60
Mileage, Parcel Count, and Land Jurisdiction													
Length of Line, in miles	7.9	2.0	5.0	21.2	1.3	2.0	9.0	3.8	7.7	3.2	1.0	3.0	3.0
Number of Parcels Crossed	12.0	2.0	10.0	36.0	3.0	4.0	13.0	4.0	18.0	6.0	4.0	6.0	6.0
Miles of Federal Government Land Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of State of Colorado Land Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Local Government Land Crossed, excluding Private Land	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Private Land Crossed	7.8	2.0	5.0	21.2	1.3	2.0	9.0	3.8	7.7	3.2	1.0	3.0	3.0
Parallel Facilities													
Miles Parallel to Local, State, and Federal Roads, excluding Scenic Byways	1.0	0.1	1.1	14.3	-	1.1	2.0	3.0	7.6	3.3	1.1	3.0	2.9
Miles Parallel to Scenic Byways	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Railroads	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Transmission Lines	0.0	-	-	10.3	-	-	-	-	-	-	-	-	-
Miles Parallel to Pipelines	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Irrigation Canals	-	-	-	-	-	-	-	-	-	-	-	-	-
Agricultural Land													
Miles Across Pasture Land/Hay/Barren (NLCD)	6.9	2.0	2.7	15.9	1.3	2.0	8.1	2.0	4.9	0.8	0.6	0.5	0.1
Miles Across Irrigated Crops	-	-	-	0.5	-	-	-	-	-	-	-	-	-
Miles Across Prime Farmland	0.5	0.0	0.7	1.4	-	0.8	0.9	-	2.0	-	0.2	1.6	2.7
Residential Uses													
Number of Residences within 100 Feet	-	0	0	2	-	0	0	0	0	0	0	0	0
Number of Residences within 300 Feet	-	0	0	4	-	0	0	0	0	0	0	0	0
Number of Residences within 660 Feet	-	0	0	5	-	0	1	0	0	1	0	0	0
Number of Residences within 0.25 Mile	-	0	0	8	-	0	3	0	0	1	0	0	2
Natural and Cultural Resources													
Miles of Biological Resources Crossed: Critical Habitat and Big Game Winter Range	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Floodplains / Flood Hazard Areas Crossed	0.5	-	1.0	2.0	-	0.7	0.3	0.1	0.5	-	-	-	-
Miles of Colorado Parks and Wildlife Lands Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Colorado Parks and Wildlife Conservation Waters Crossed	-	-	-	0.3	-	-	-	-	-	-	-	-	-
Number of Stream / River Crossings - Perennial	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Wetland Crossed (NWI)	0.1	0.0	0.2	0.2	-	-	-	-	0.0	0.0	-	-	-
Number of National Register of Historic Places Sites within 0.25 Mile	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Conservation Easements Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Geohazards Crossed: Karst Topography, Fault Lines, and Landslide Areas	-	-	-	-	-	-	-	-	-	-	-	-	-
Community Facilities													
Miles of Parks and Open Spaces Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Parks and Open Spaces within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Places of Worship within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Schools within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Hospitals within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Cemeteries within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Resource Sensitivity													
Miles of Exclusion Composite Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Composite Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Moderate Composite Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Low Composite Sensitivity Crossed	7.8	2.0	5.0	21.2	1.3	2.0	9.0	3.8	7.7	3.2	1.0	3.0	3.0
Engineering Resource Sensitivity													
Miles of High Engineering Sensitivity Crossed	0.1	0.0	0.6	1.0	-	0.0	1.0	0.0	0.8	0.1	-	0.3	-
Miles of Moderate Engineering Sensitivity Crossed	2.8	0.5	1.8	4.4	0.2	0.1	3.0	0.7	3.2	0.6	0.0	1.1	0.6
Miles of Low Engineering Sensitivity Crossed	5.0	1.4	2.6	15.8	1.1	1.9	5.1	3.1	3.7	2.5	1.0	1.6	2.4
Resource Sensitivity													
Miles of High Visual Resource Sensitivity Crossed (NRHP)	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Biological Resource Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Cultural Resource Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous													
Number of Angles > or = 30 Degrees	-	-	-	7	-	-	4	-	3	2	-	-	-
Number of Airstrips Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Airport Approach Surface Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Military Training Routes / Military Operations Areas Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Oil / Gas Wells within 200 Feet	-	-	1	3	-	-	3	-	-	-	-	-	-
Number of Water Wells within 200 Feet	-	-	-	1	1	-	-	-	-	-	-	-	-
Number of Wind Turbines within 1,000 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Communication Towers within 1,000 Feet	-	-	-	-	-	-	-	-	5	-	-	-	-

Tri-State Generation and Transmission Association, Inc.

Big Sandy to Badger Creek Transmission Project

Route Links Data - Sheet 3 of 3

February 2024

Routing Criteria	Route Links															
	65	70	71	75	76	80	85	90	95	100	110	115	120	125	130	131
Mileage, Parcel Count, and Land Jurisdiction																
Length of Line, in miles	15.2	5.9	2.1	9.8	8.1	2.2	16.7	11.5	3.9	7.1	7.0	7.9	2.8	6.2	5.6	1.9
Number of Parcels Crossed	25.0	10.0	5.0	26.0	11.0	4.0	22.0	17.0	7.0	13.0	14.0	11.0	4.0	9.0	7.0	4.0
Miles of Federal Government Land Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of State of Colorado Land Crossed	-	-	-	-	3.0	-	-	-	-	-	-	-	-	-	-	-
Miles of Local Government Land Crossed, excluding Private Land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Private Land Crossed	15.2	5.9	2.1	9.8	5.0	2.2	16.7	11.5	3.9	7.1	7.0	7.9	2.8	6.2	5.6	1.9
Parallel Facilities																
Miles Parallel to Local, State, and Federal Roads, excluding Scenic Byways	15.0	5.7	-	4.6	0.1	2.2	12.7	6.5	3.5	6.3	5.7	5.4	2.8	-	4.4	1.9
Miles Parallel to Scenic Byways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Railroads	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Transmission Lines	-	-	-	0.6	4.0	0.1	6.1	-	-	-	-	1.8	-	-	0.0	0.1
Miles Parallel to Pipelines	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles Parallel to Irrigation Canals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Agricultural Land																
Miles Across Pasture Land/Hay/Barren (NLCD)	7.4	5.2	2.1	6.2	7.9	1.4	9.8	9.9	3.9	7.1	6.3	5.3	2.7	6.1	4.0	0.4
Miles Across Irrigated Crops	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-
Miles Across Prime Farmland	7.3	1.1	-	1.7	0.2	-	6.2	2.9	1.3	0.7	0.7	1.1	0.6	1.0	0.5	-
Residential Uses																
Number of Residences within 100 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Residences within 300 Feet	2	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-
Number of Residences within 660 Feet	3	1	1	4	-	-	1	-	1	1	-	1	-	-	-	-
Number of Residences within 0.25 Mile	3	1	2	4	1	-	1	1	1	2	-	1	-	-	-	-
Natural and Cultural Resources																
Miles of Biological Resources Crossed: Critical Habitat and Big Game Winter Range	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Floodplains / Flood Hazard Areas Crossed	-	-	-	1.6	0.3	1.0	0.2	0.4	-	0.8	0.3	-	-	-	-	-
Miles of Colorado Parks and Wildlife Lands Crossed	-	-	-	-	3.0	-	-	-	-	-	-	-	-	-	-	-
Miles of Colorado Parks and Wildlife Conservation Waters Crossed	-	0.3	-	0.9	0.3	0.4	0.3	0.3	-	0.6	0.3	-	-	0.5	-	-
Number of Stream / River Crossings - Perennial	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-
Miles of Wetland Crossings	-	-	0.0	0.0	0.0	0.0	0.0	0.1	-	0.0	0.1	0.0	-	-	0.0	-
Number of National Register of Historic Places Sites within 0.25 Mile	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Conservation Easements Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Geohazards Crossed: Karst Topography, Fault Lines, and Landslide Areas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Community Facilities																
Miles of Parks and Open Spaces Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Parks and Open Spaces within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Places of Worship within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Schools within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Hospitals within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Cemeteries within 300 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Resource Sensitivity																
Miles of Exclusion Composite Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Composite Sensitivity Crossed	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Moderate Composite Sensitivity Crossed	0.0	-	-	-	3.0	-	-	-	-	-	-	-	-	-	-	-
Miles of Low Composite Sensitivity Crossed	15.2	5.9	2.1	9.8	8.1	2.2	16.7	11.5	3.9	7.1	7.0	7.9	2.8	6.2	5.6	1.9
Engineering Resource Sensitivity																
Miles of High Engineering Sensitivity Crossed	0.5	0.5	0.2	0.1	0.4	0.0	0.0	1.7	0.2	1.4	1.3	1.3	0.3	0.7	0.1	0.4
Miles of Moderate Engineering Sensitivity Crossed	3.6	2.2	1.1	1.1	2.2	0.2	5.0	6.0	0.6	3.0	4.0	4.3	1.1	3.5	3.7	1.2
Miles of Low Engineering Sensitivity Crossed	11.1	3.3	0.9	8.6	5.5	2.0	11.6	3.8	3.1	2.7	1.7	2.3	1.4	2.1	1.8	0.3
Resource Sensitivity																
Miles of High Visual Resource Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Biological Resource Sensitivity Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of High Cultural Resource Sensitivity Crossed	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous																
Number of Angles > or = 30 Degrees	6	-	2	8	4	-	6	4	-	2	2	-	-	1	1	-
Number of Airstrips Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Airport Approach Surface Crossed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miles of Military Training Routes / Military Operations Areas Crossed	-	-	2.0	-	-	-	-	-	-	1.6	7.0	1.2	-	6.2	5.6	1.9
Number of Oil / Gas Wells within 200 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Water Wells within 200 Feet	-	-	-	3	-	-	-	1	-	1	-	-	-	-	-	-
Number of Wind Turbines within 1,000 Feet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Communication Towers within 1,000 Feet	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-

Tri-State Generation and Transmission Association, Inc.

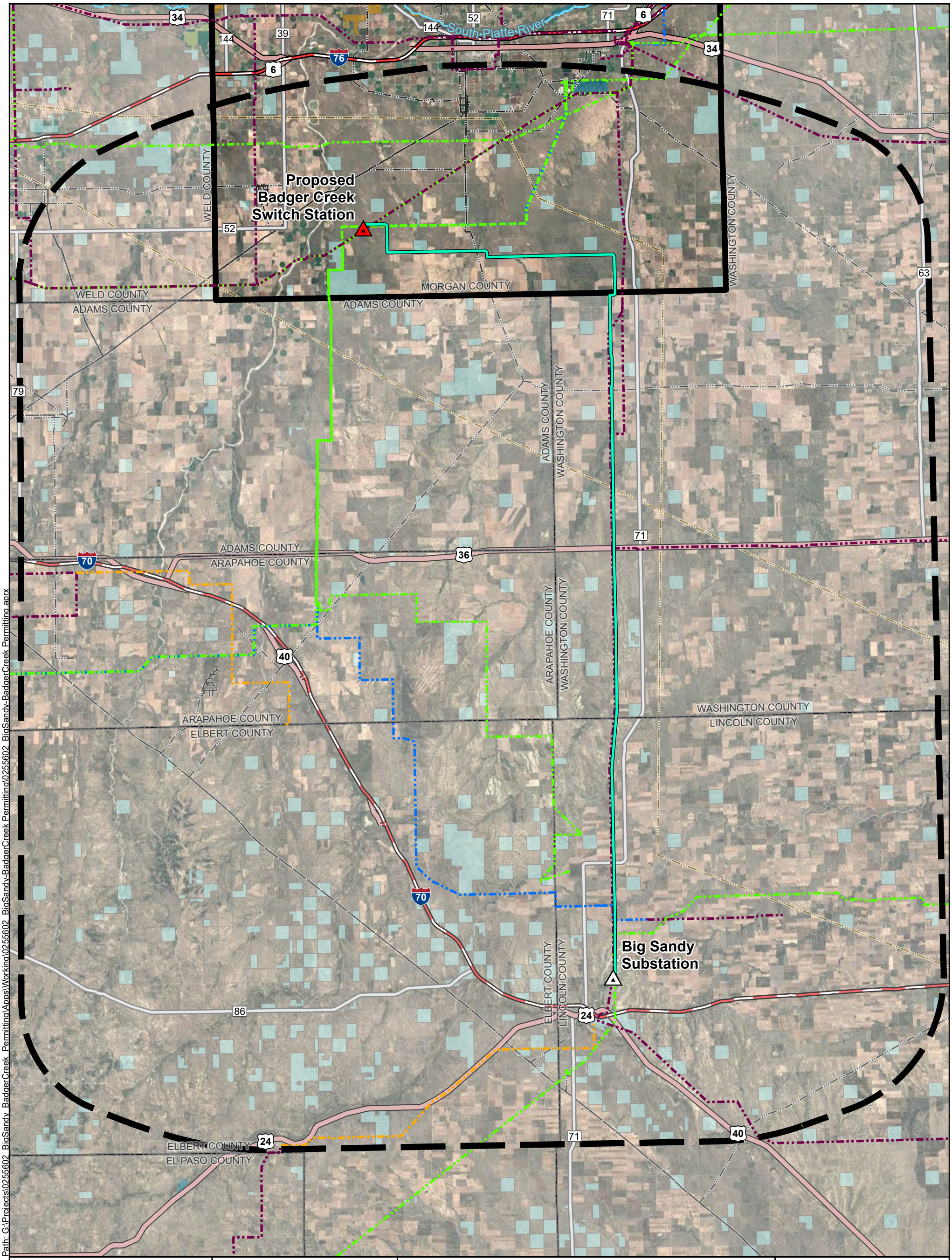
Big Sandy to Badger Creek Transmission Project

Route Alternatives

February 2024

Routing Criteria	Route Alternatives				
	A	B	C	D	E
Mileage, Parcel Count, and Land Jurisdiction					
Length of Line, in miles	81.4	82.4	71.7	79.9	81.9
Number of Parcels Crossed	107	115	98	114	118
Miles of Federal Government Land Crossed	-	-	-	-	-
Miles of State of Colorado Land Crossed	3.0	0.0	-	0.0	0.0
Miles of Local Government Land Crossed, excluding Private Land	-	-	-	-	-
Miles of Private Land Crossed	78.3	82.4	71.7	79.9	81.9
Facilities Paralleled and Crossed					
Miles Parallel to Local, State, and Federal Roads, excluding Scenic Byways	50.0	61.8	15.1	61.3	65.1
Number of Local, State, and Federal Roads Crossed, excluding Scenic Byways	34	45	33	51	46
Miles Parallel to Scenic Byways	-	-	-	-	-
Miles Parallel to Railroads	-	-	-	-	-
Miles Parallel to Transmission Lines	11.8	1.8	50.6	9.6	1.8
Number of Transmission Line Crossings	3	3	7	4	3
Miles Parallel to Pipelines	-	-	-	0.5	-
Miles Parallel to Irrigation Canals	-	-	-	-	-
Agricultural Land					
Miles Across Pasture Land/Hay/Barren (NLCD)	57.1	47.1	52.7	50.2	48.4
Miles Across Irrigated Crops	-	-	-	3.1	-
Miles Across Prime Farmland	13.5	17.1	3.1	3.9	18.3
Residential Uses					
Number of Residences within 100 Feet	-	-	-	2	-
Number of Residences within 300 Feet	6	7	-	13	7
Number of Residences within 660 Feet	12	15	-	20	14
Number of Residences within 0.25 Mile	19	22	-	33	21
Natural and Cultural Resources					
Miles of Biological Resources Crossed: Critical Habitat and Big Game Winter Range	-	-	-	-	-
Miles of Floodplains / Flood Hazard Areas Crossed	0.8	1.1	1.6	5.7	0.6
Miles of Colorado Parks and Wildlife Lands Crossed	3.0	-	-	-	-
Miles of Colorado Parks and Wildlife Conservation Waters Crossed	1.9	1.0	0.8	3.3	1.0
Number of Stream / River Crossings - Perennial	-	-	-	-	-
Miles of Wetland Crossed (NWI)	0.2	0.3	0.8	0.3	0.1
Number of National Register of Historic Places Sites within 0.25 Mile	-	-	-	-	-
Miles of Conservation Easements Crossed	-	-	-	-	-
Miles of Geohazards Crossed: Karst Topography, Fault Lines, and Landslide Areas	-	-	-	-	-
Community Facilities					
Miles of Parks and Open Spaces Crossed	-	-	-	-	-
Number of Parks and Open Spaces within 300 Feet	-	-	-	-	-
Number of Places of Worship within 300 Feet	-	-	-	-	-
Number of Schools within 300 Feet	-	-	-	-	-
Number of Hospitals within 300 Feet	-	-	-	-	-
Number of Cemeteries within 300 Feet	1	-	1	1	1
Environmental Resource Sensitivity					
Miles of Exclusion Composite Sensitivity Crossed	-	-	-	-	-
Miles of High Composite Sensitivity Crossed	-	-	-	-	-
Miles of Moderate Composite Sensitivity Crossed	5.3	2.2	3.0	2.2	2.2
Miles of Low Composite Sensitivity Crossed	81.4	82.4	71.7	79.9	81.9
Engineering Resource Sensitivity					
Miles of High Engineering Sensitivity Crossed	6.1	6.0	6.4	5.4	6.0
Miles of Moderate Engineering Sensitivity Crossed	35.0	31.5	22.9	23.3	32.3
Miles of Low Engineering Sensitivity Crossed	40.2	45.0	42.4	51.1	43.6
Resource Sensitivity					
Miles of High Visual Resource Sensitivity Crossed (NRHP)	-	-	-	-	-
Miles of High Biological Resource Sensitivity Crossed	-	-	-	-	-
Miles of High Cultural Resource Sensitivity Crossed	-	-	-	-	-
Miscellaneous					
Number of Angles > or = 30 Degrees	36	35	18	38	36
Number of Airstrips Crossed	-	-	-	-	-
Miles of Airport Approach Surface Crossed	-	-	-	-	-
Miles of Military Training Routes / Military Operations Areas Crossed	24.4	24.4	20.1	30.8	24.4
Number of Oil / Gas Wells within 200 Feet	-	1	1	4	-
Number of Water Wells within 200 Feet	1	1	1	1	1
Number of Wind Turbines within 1,000 Feet	10	10	17	10	10
Number of Communication Towers within 1,000 Feet	3	1	3	1	2

APPENDIX B MAPS



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PROJECT OVERVIEW MAP

0 3 6 9

Miles

POWER ENGINEERS MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:400,000	1 inch = 6 miles
Map Rev: 1	Date: 7/28/2025

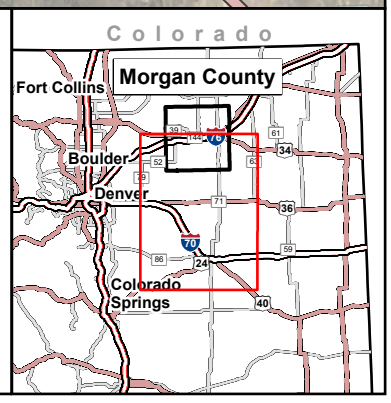
Project Features
- Project Substation
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route
- Project Study Area
- Morgan County Boundary

Jurisdiction
- Bureau of Land Management
- Bureau of Reclamation
- State of Colorado
- Local Ownership
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- 69 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.



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DETAILED MAP SHEET
PAGE 1 OF 23

0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

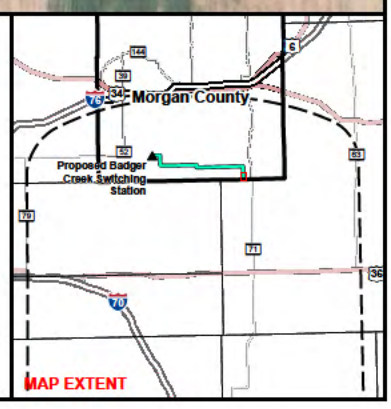
Map Rev: 1 | Date: 6/24/2025

Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Wetland (NWI)

Reference Features
- Local Road
- County Boundary
- Township
- Section



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DETAILED MAP SHEET
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0 250 500
US Feet

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

Map Rev: 1

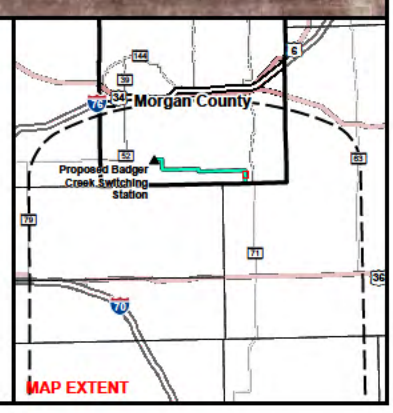
Date: 6/24/2025

Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section



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DETAILED MAP SHEET
PAGE 3 OF 23

0 250 500
US Feet

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

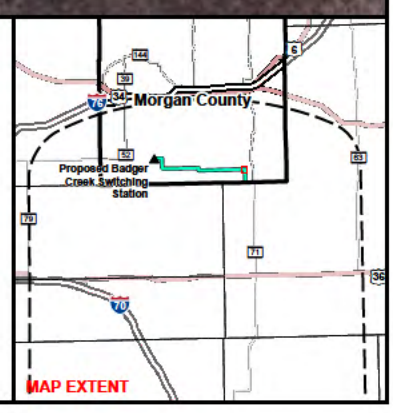
Map Rev: 1

Date: 6/24/2025

Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Wetland (NWI)
- Township
- Section



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DETAILED MAP SHEET
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0 250 500
US Feet

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

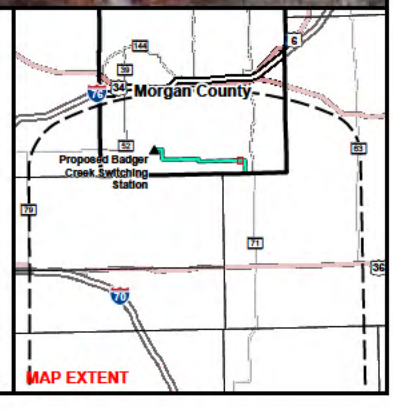
Map Rev: 1

Date: 6/24/2025

Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- Township
- Section



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DETAILED MAP SHEET
PAGE 5 OF 23

0 250 500
US Feet

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

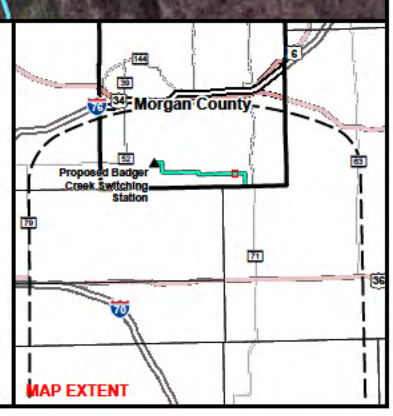
Map Rev: 1

Date: 6/24/2025

Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- Township
- Section



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0 250 500
US Feet

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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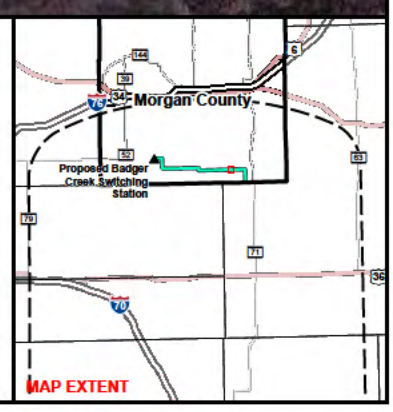
Map Rev: 1

Date: 6/24/2025

Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private
- Township
- Section



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1N 57W
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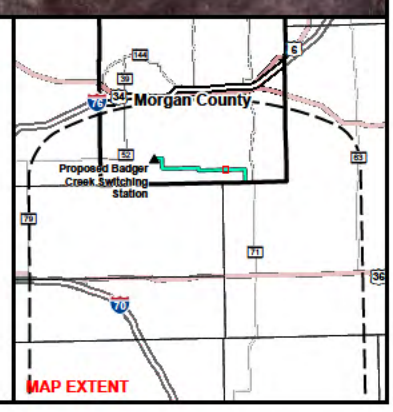
Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- Township
- Section



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1N 57W
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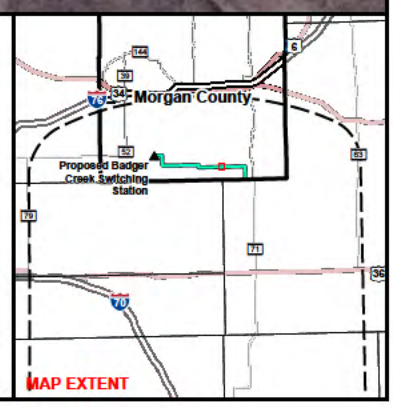
Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section



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1N 57W

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BADGER CREEK RD

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CO RD 22

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Project Features
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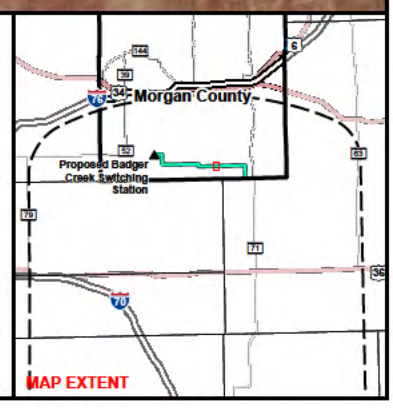
- Page Boundary

Jurisdiction
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- 100-Year Floodplain

Reference Features
- Local Road
- Township
- Section



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Badger Creek

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BADGER CREEK RD

CO RD 22

CO RD C

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BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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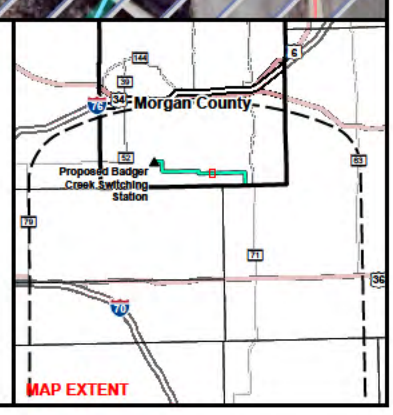
- Page Boundary

Jurisdiction
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- 100-Year Floodplain

Reference Features
- Local Road
- Township
- Section



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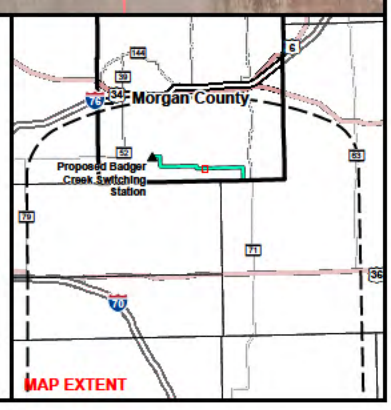
Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- 100-Year Floodplain

Reference Features
- Local Road
- Township
- Section



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CO RD C
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Project Features
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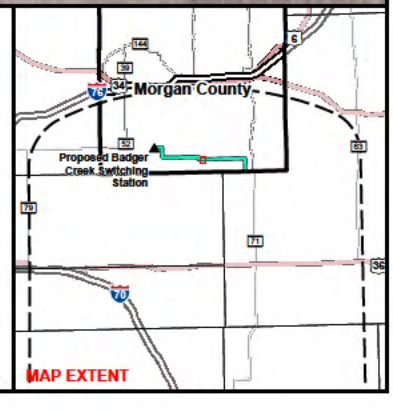
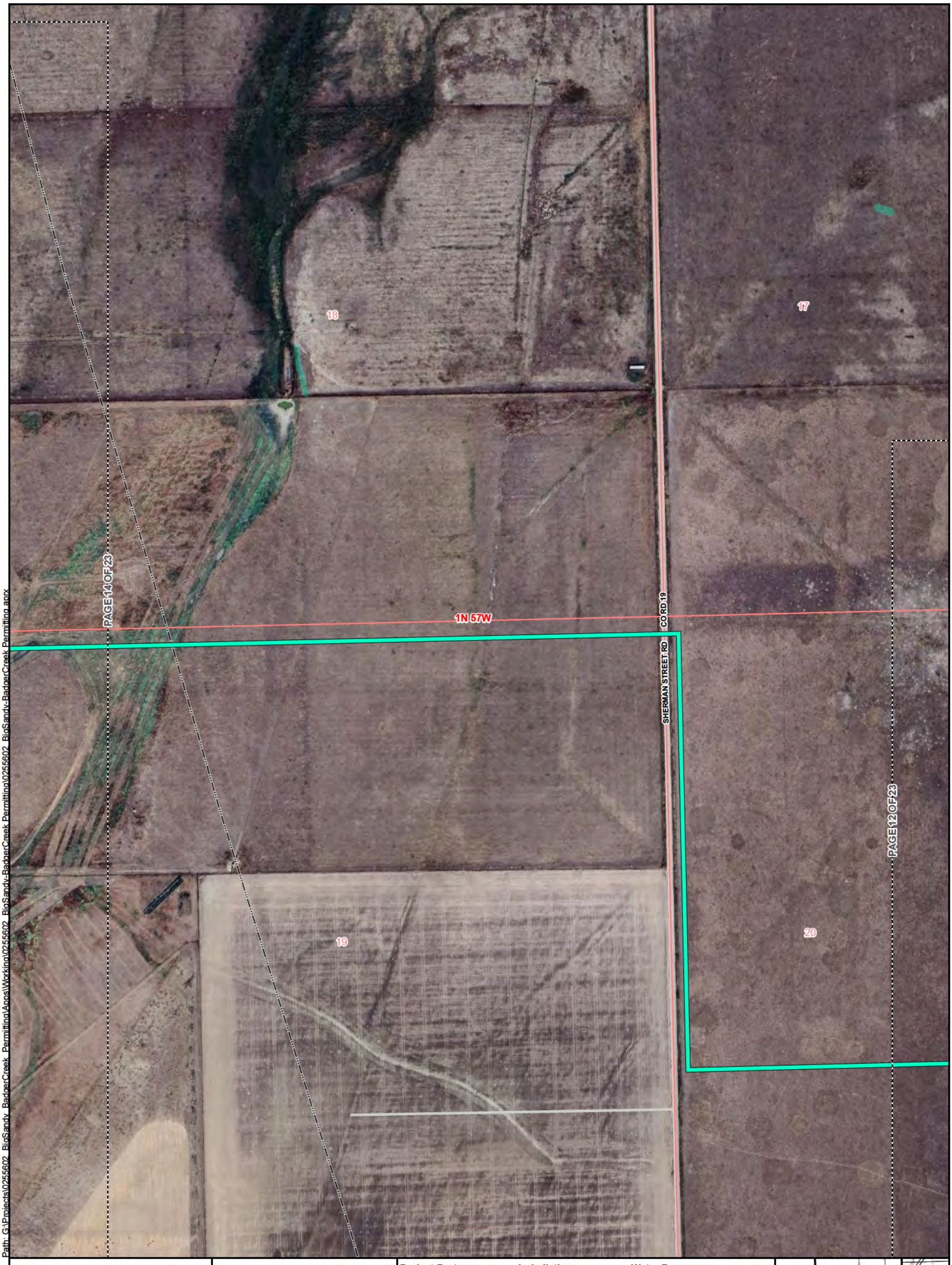
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section





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Project Features
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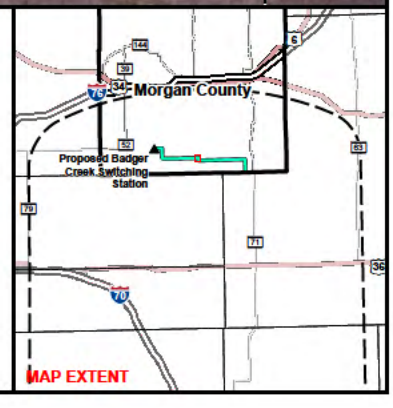
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Existing Utility
- Natural Gas Pipeline

Water Resources
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section



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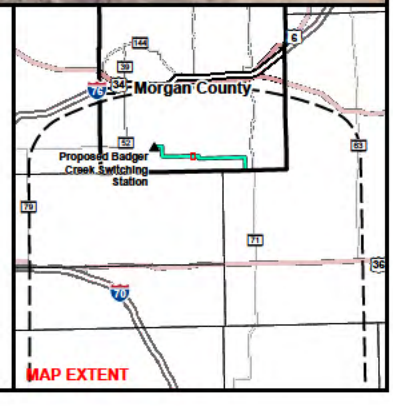
- Page Boundary

Jurisdiction
- Private

Existing Utility
- Natural Gas Pipeline

Water Resources
- Stream/River (NHD)
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section



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1N 58W

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CO RD 17

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- Project Study Area
- Page Boundary

Jurisdiction
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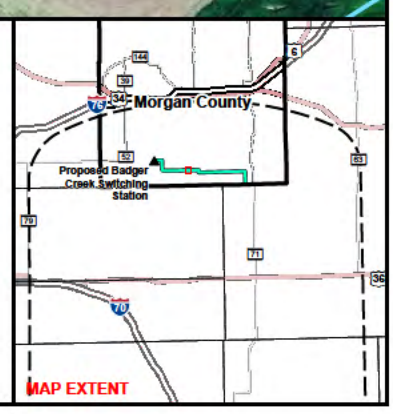
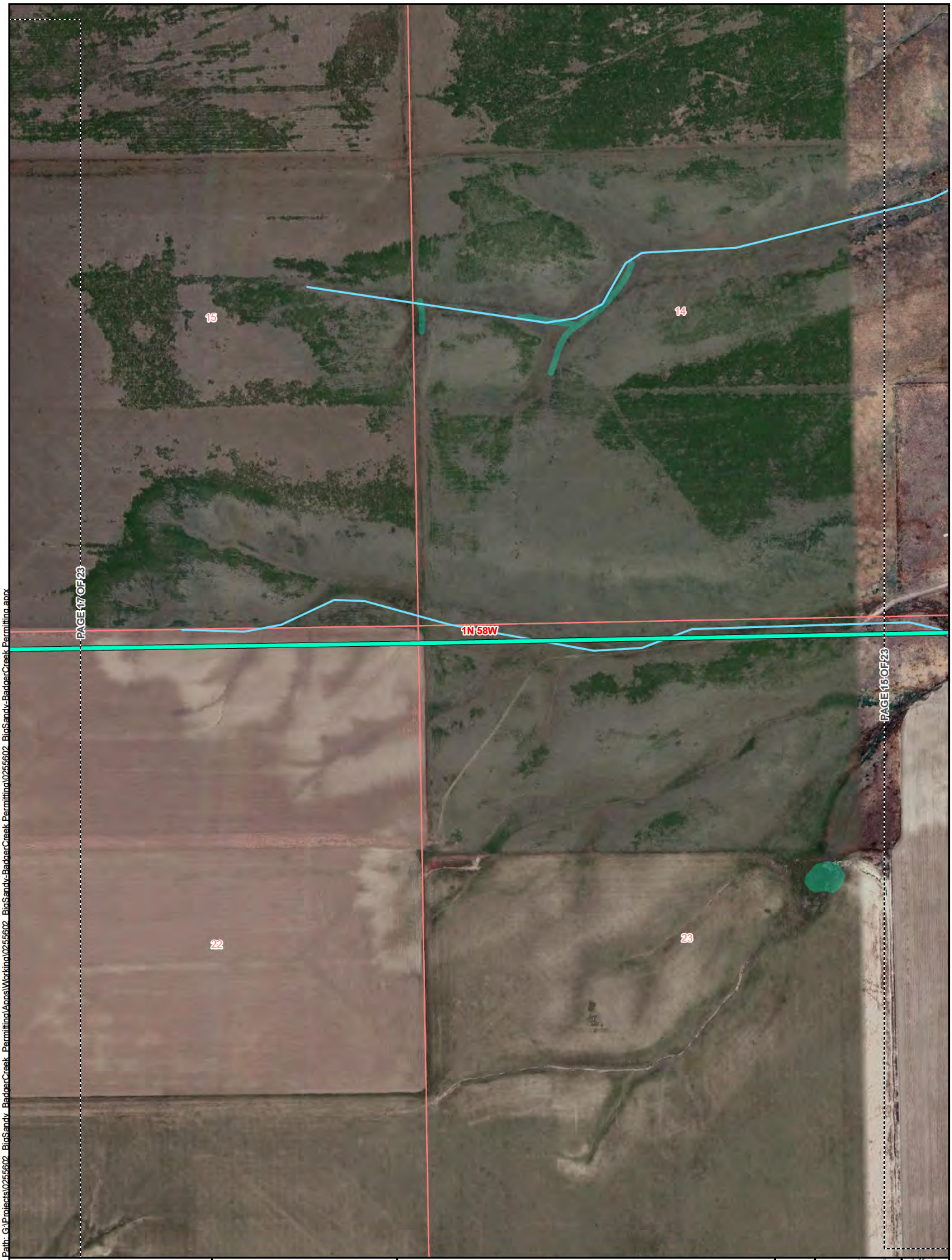
Water Resources
- Stream/River (NHD)
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section





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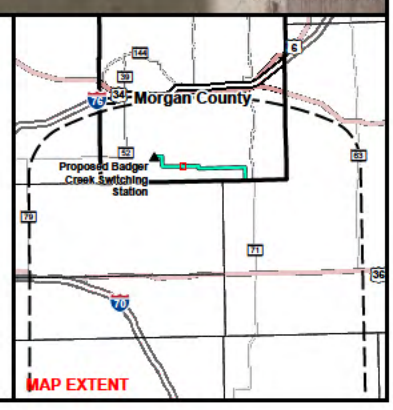
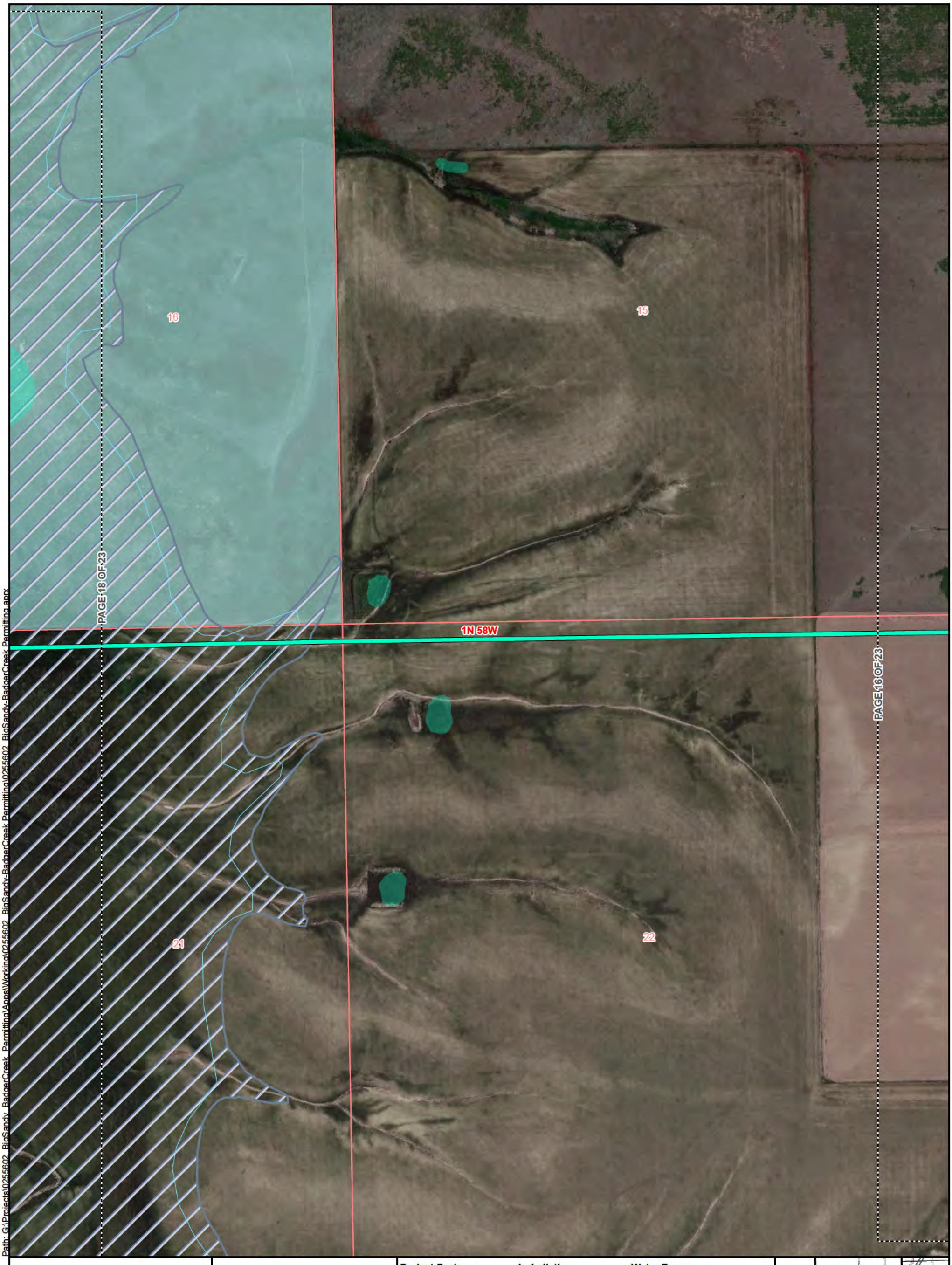
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section





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Project Features
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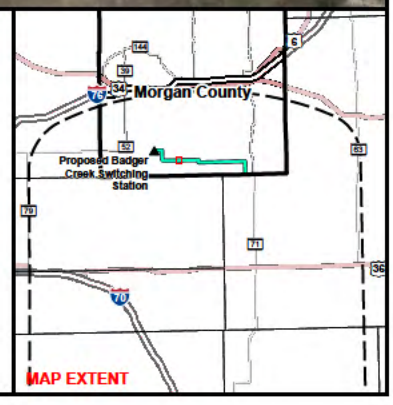
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Water Resources
- Wetland (NWI)
- Waterbody (NHD)
- 100-Year Floodplain
- Township
- Section



Sand Arroyo Creek

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Project Features
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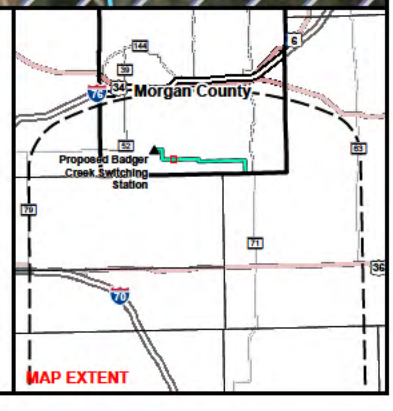
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- Waterbody (NHD)
- 100-Year Floodplain

Reference Features
- Local Road
- Township
- Section



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Project Features
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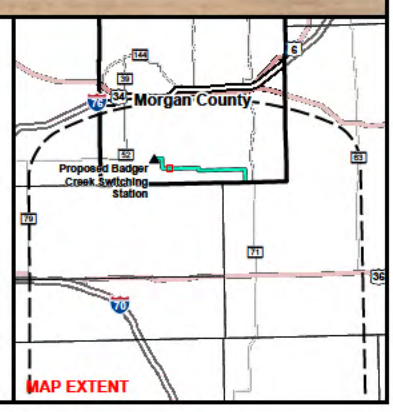
- Page Boundary

Jurisdiction
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)
- 100-Year Floodplain

Reference Features
- Local Road
- Township
- Section



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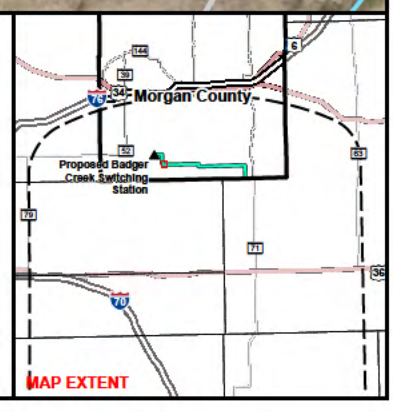
Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Stream/River (NHD)

Reference Features
- Local Road
- Township
- Section



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1N 58W

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BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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Project Features
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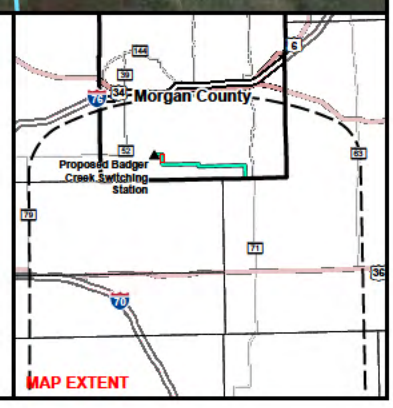
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Water Resources
- Stream/River (NHD)
- Wetland (NWI)

Reference Features
- Local Road
- Township
- Section



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1N 59W

CO RD F

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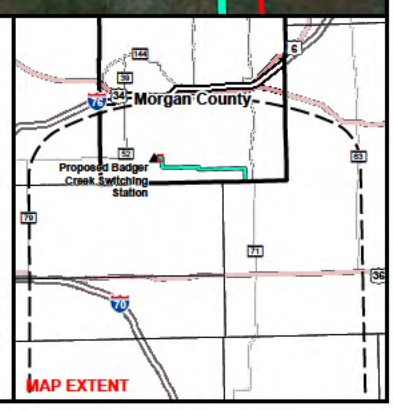
Project Features
- Proposed Route C
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission

Reference Features
- Local Road
- Township
- Section



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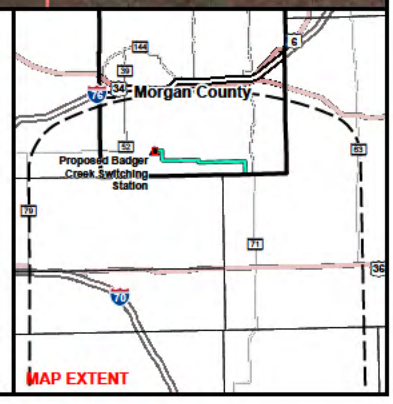
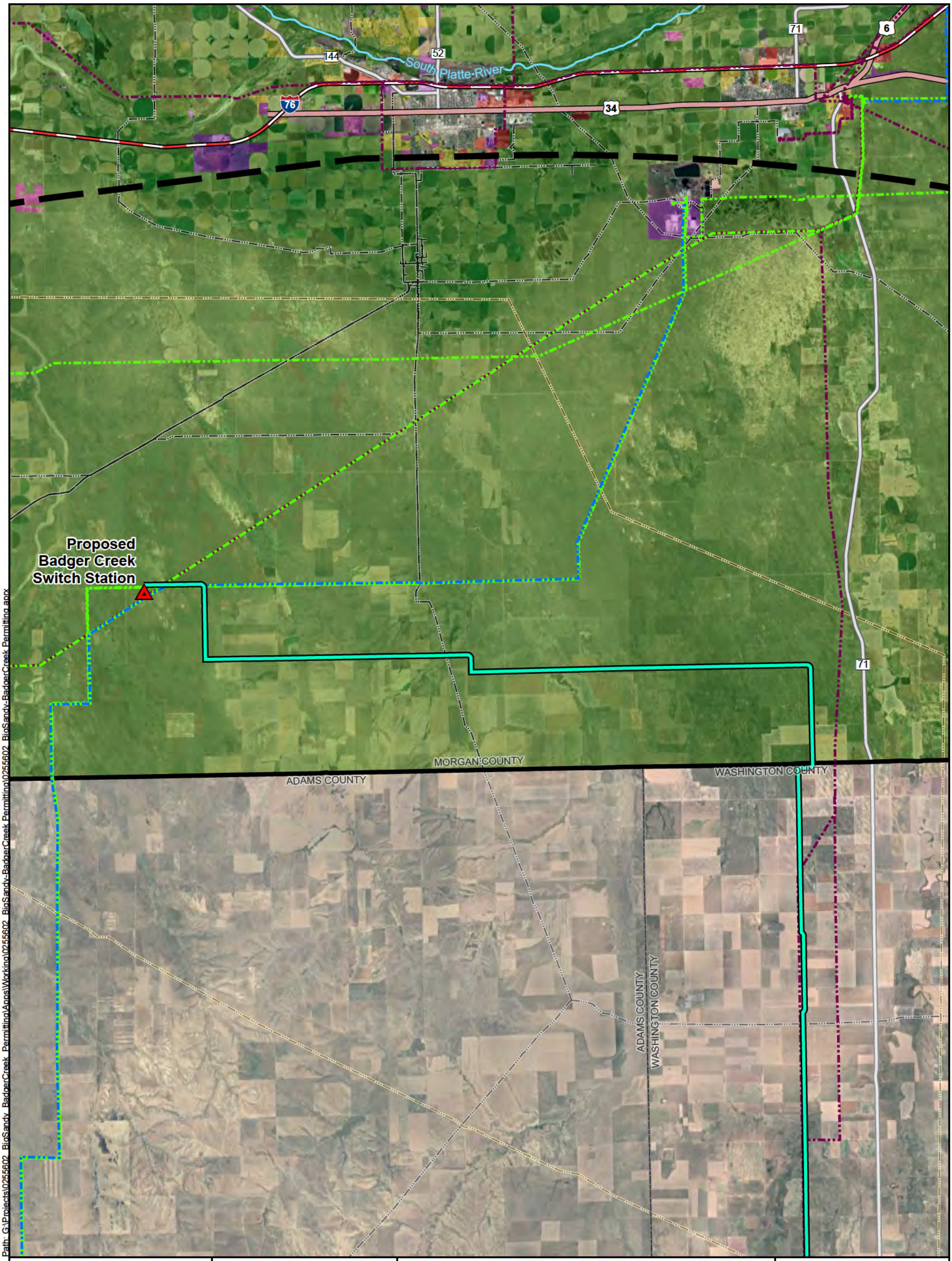
Project Features
- Proposed Route C
- Proposed Badger Creek Switch Station Footprint
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission

Reference Features
- Local Road
- Township
- Section





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ZONING MAP

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Miles

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:150,000	1 inch = 2 miles
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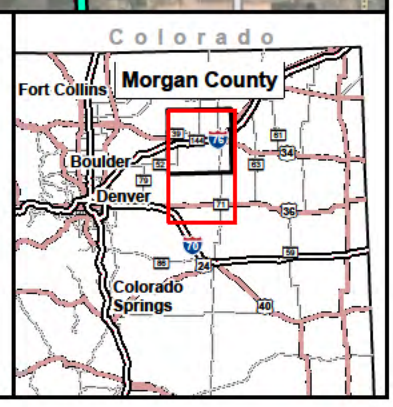
Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route
- Project Study Area
- Morgan County Boundary

Zoning
- Agricultural
- Agriculture / Agri-Business District
- Commercial District
- Planned Development
- Industrial District
- Residential District

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.



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CO RD B

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QUICK, SHARON
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CO RD 2800 · CO RD 28

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ARCHULETA,
JOSEPH R & ANN M

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MORGAN COUNTY
WASHINGTON COUNTY

CO RD A — CO RD 30

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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

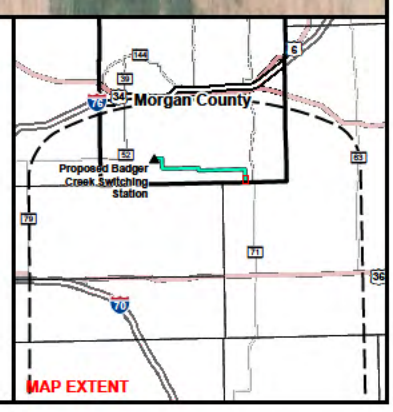
NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
Map Rev: 1	Date: 6/12/2025

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH
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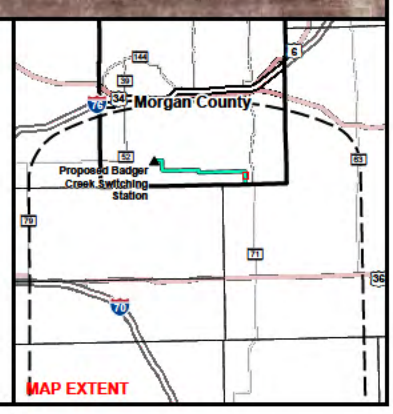
Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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DETAILED PARCEL MAP SHEET
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US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

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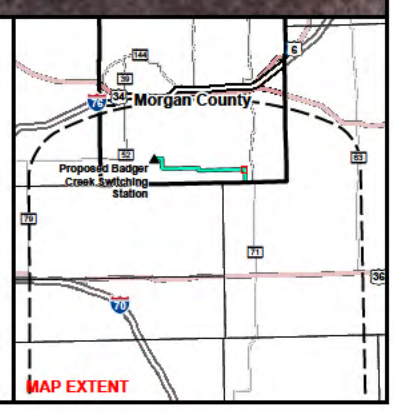
POWER ENGINEERS
TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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STATE OF
COLORADO

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0 250 500
US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

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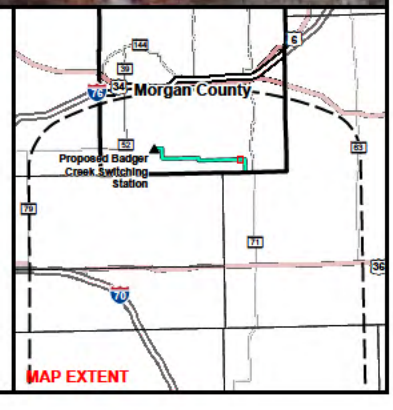
POWER ENGINEERS
TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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RANCH LLC

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STATE OF
COLORADO

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0 250 500
US Feet

BIG SANDY TO BADGER CREEK
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POWER ENGINEERS
TRI-STATE

Project Features
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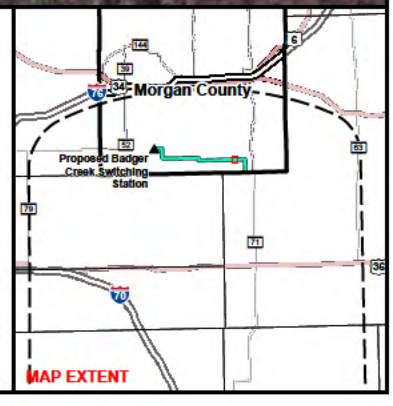
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

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MORGAN COUNTY, COLORADO

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Project Features
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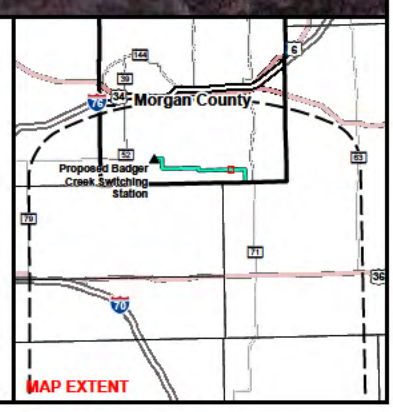
Reference Features
- Local Road
- County Boundary
- Parcel



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CO RD 24

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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

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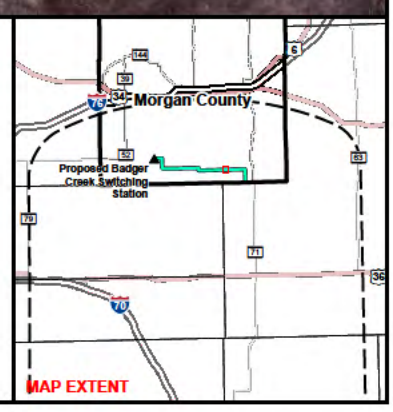
POWER ENGINEERS

TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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MORGAN COUNTY, COLORADO

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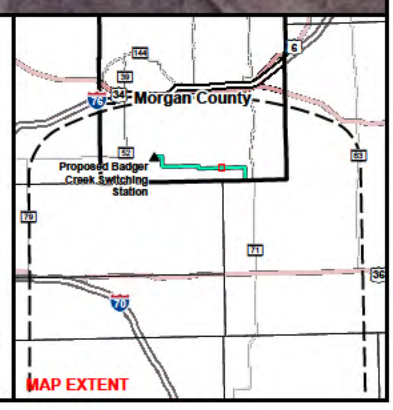
Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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CO RD 22

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0 250 500
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POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

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Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel

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RANCH LLC

BADGER CREEK RD

CO RD 22

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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

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NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

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Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel

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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

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MORGAN COUNTY, COLORADO

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Project Features
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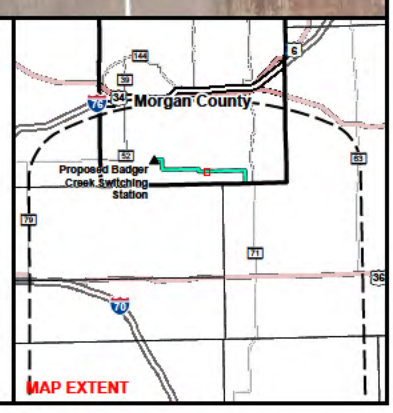
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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COLORADO

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US Feet

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

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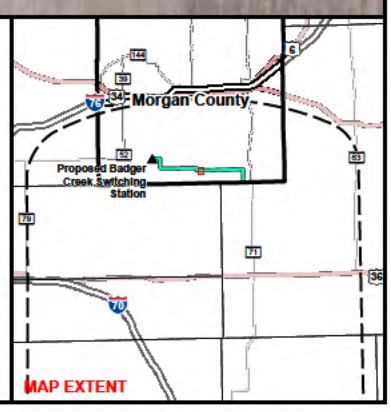
POWER ENGINEERS
TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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MORGAN COUNTY, COLORADO

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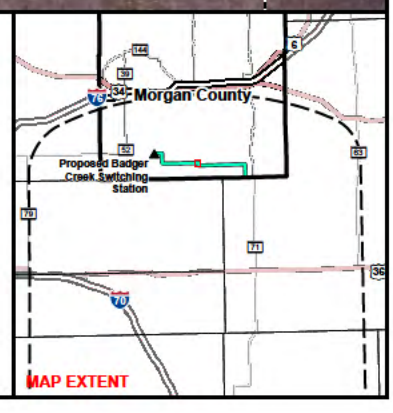
POWER ENGINEERS
TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Existing Utility
- Natural Gas Pipeline

Reference Features
- Local Road
- County Boundary
- Parcel



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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

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MORGAN COUNTY, COLORADO

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POWER ENGINEERS

TRI-STATE

Project Features
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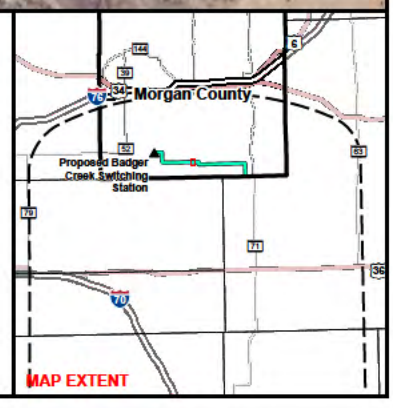
- Page Boundary

Jurisdiction
- Private

Existing Utility
- Natural Gas Pipeline

Reference Features
- Local Road
- County Boundary
- Parcel



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& CARY DAVID ET AL

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JEWELL &

CO RD D

CO RD 17

CO RD 1700

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JONES,
JEWELL &

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HAWES, ELDON
D & KAREN K

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HAWES, ELDON
D & KAREN K

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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

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NAD 1983 STATEPLANE COLORADO NORTH
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Reference Features
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- County Boundary
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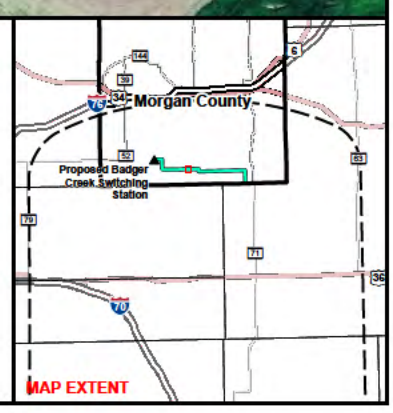

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DETAILED PARCEL MAP SHEET
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0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

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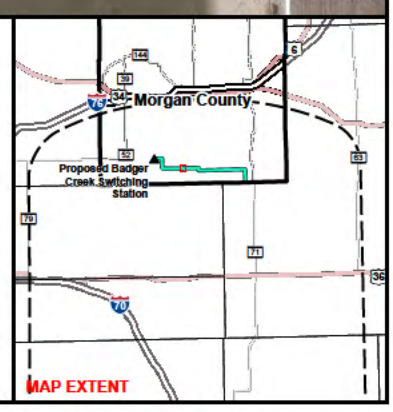
Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



148715000001
GOOD, ROBERT
H & MARY E

148716000900
STATE OF
COLORADO

148715000002
LINNEBUR GRAIN
& BUFFALO LLLP

148715000003
GOOD, ROBERT
H & MARY E

148721000001
LINNEBUR GRAIN
& BUFFALO LLLP

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LINNEBUR GRAIN
& BUFFALO LLLP

148722000001
MENDOZA, JEAN
ROSINA ET AL

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DETAILED PARCEL MAP SHEET
PAGE 17 OF 23

0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

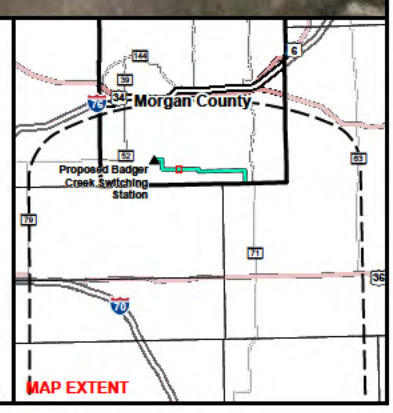
NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
Map Rev: 1	Date: 6/12/2025

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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HAWES, BARBARA K
REVOCABLE TRUST

1487160000900
STATE OF
COLORADO

RD 13 / CO RD D

CO RD 14

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HAWES, ELDON
D & KAREN K

148721000001
LINNEBUR GRAIN
& BUFFALO LLLP

148720000002
HAWES, ELDON
D & KAREN K

148721000003
HAWES, BARBARA K
REVOCABLE TRUST

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DETAILED PARCEL MAP SHEET
PAGE 18 OF 23

0 250 500
US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
Map Rev: 1	Date: 6/12/2025

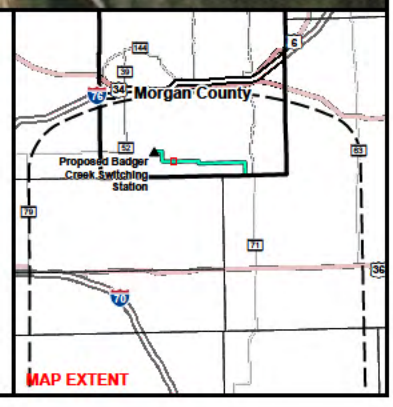
POWER ENGINEERS

TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- State of Colorado
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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REVOCABLE TRUST

148717000002
HAWES, BARBARA K
REVOCABLE TRUST

148717000001
HAWES, BARBARA K
REVOCABLE TRUST

RD 13 CO RD D

CO RD 13

148719000001
HAWES, ELDON
D & KAREN K

148720000001
HAWES, ELDON
D & KAREN K

148720000002
HAWES, ELDON
D & KAREN K

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DETAILED PARCEL MAP SHEET
PAGE 19 OF 23

0 250 500
US Feet

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
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POWER ENGINEERS
TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel

148513000001
WOLFSWINKEL, JERRY
D & MONICA L

148718000002
FREUND
INVESTMENTS LLC

148718000001
HAWES, BARBARA K
REVOCABLE TRUST

CO RD D

148524000001
WOLFSWINKEL, JERRY
D & MONICA L

148719000001
HAWES, ELDON
D & KAREN K

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DETAILED PARCEL MAP SHEET
PAGE 20 OF 23

0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

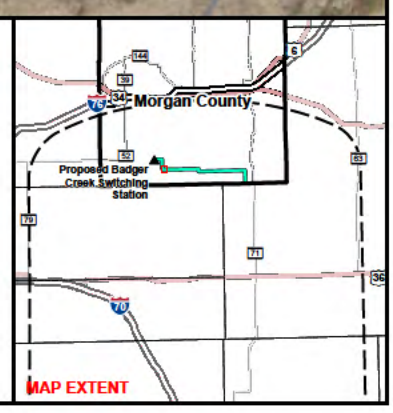
NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
Map Rev: 1	Date: 6/12/2025

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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BILLIS RANCH
SOLAR LLC

148707000002
KUHLMAN,
HOWARD ET AL

148512000002
FREUND
INVESTMENTS LLC

148707000003
FREUND
INVESTMENTS LLC

ROAD E

148513000001
WOLFSWINKEL, JERRY
D & MONICA L

148718000002
FREUND
INVESTMENTS LLC

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DETAILED PARCEL MAP SHEET
PAGE 21 OF 23

0 250 500
US Feet

POWER ENGINEERS
TRI-STATE

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

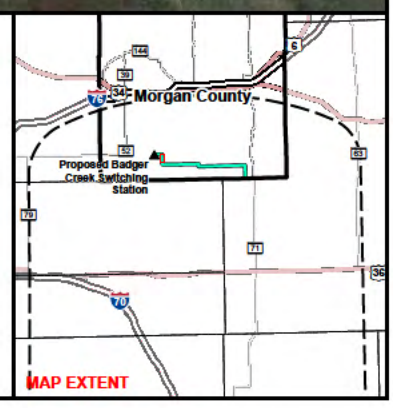
NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
Map Rev: 1	Date: 6/12/2025

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Reference Features
- Local Road
- County Boundary
- Parcel



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SOLAR LLC

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GRAYBILL, GERALD
R & KELLY R

CO RD F

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SOLAR LLC

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KUHLMAN,
HOWARD ET AL

148512000002
FREUND
INVESTMENTS LLC

148707000003
FREUND
INVESTMENTS LLC

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DETAILED PARCEL MAP SHEET
PAGE 22 OF 23

0 250 500
US Feet

BIG SANDY TO BADGER CREEK
TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH
FIPS 0501 (US FEET)

1:6,000	1 inch = 500 feet
Map Rev: 1	Date: 6/12/2025

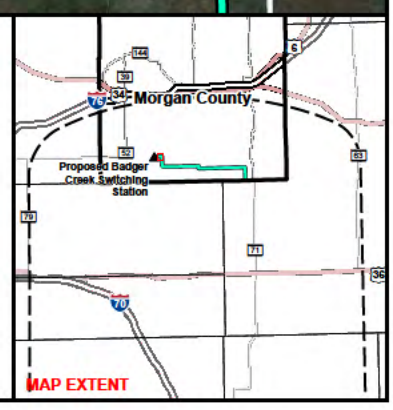
POWER ENGINEERS
TRI-STATE

Project Features
- Preliminary Preferred Route
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission

Reference Features
- Local Road
- County Boundary
- Parcel



148502000001
BILLIS RANCH
SOLAR LLC

148501000001
BILLIS RANCH
SOLAR LLC

CO RD F

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BILLIS RANCH
SOLAR LLC

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BILLIS RANCH
SOLAR LLC

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DETAILED PARCEL MAP SHEET
PAGE 23 OF 23

0 250 500
US Feet

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:6,000	**1 inch = 500 feet**
Map Rev: 1	**Date: 6/12/2025**

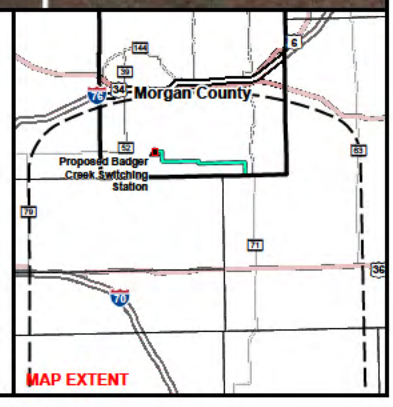
POWER ENGINEERS
TRI-STATE

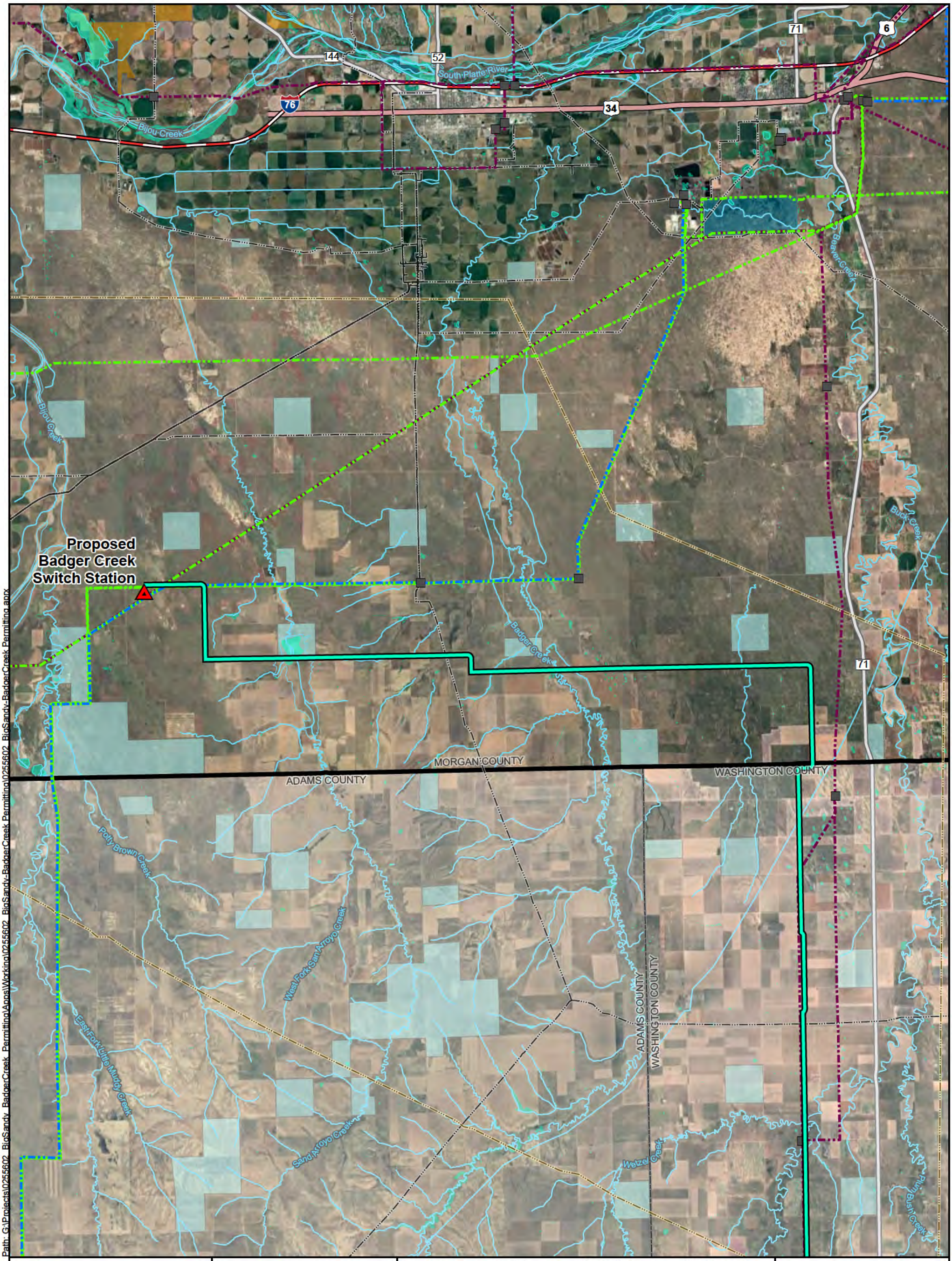
Project Features
- Preliminary Preferred Route
- Proposed Badger Creek Switch Station Footprint
- Project Study Area
- Page Boundary

Jurisdiction
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission

Reference Features
- Local Road
- County Boundary
- Parcel





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BIOLOGICAL AND WATER RESOURCES MAP

0 2 4

Miles

POWER ENGINEERS

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:150,000	1 inch = 2 miles
Map Rev: 2	Date: 6/12/2025

Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route
- Morgan County Boundary

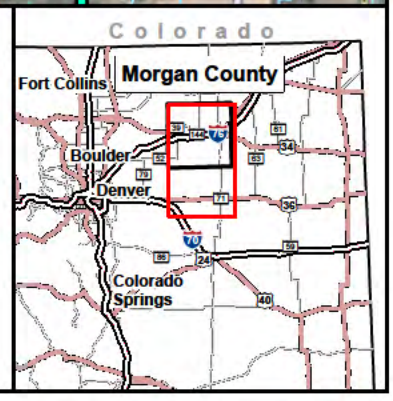
Jurisdiction
- Bureau of Land Management
- Bureau of Reclamation
- State of Colorado
- Local Ownership
- Private

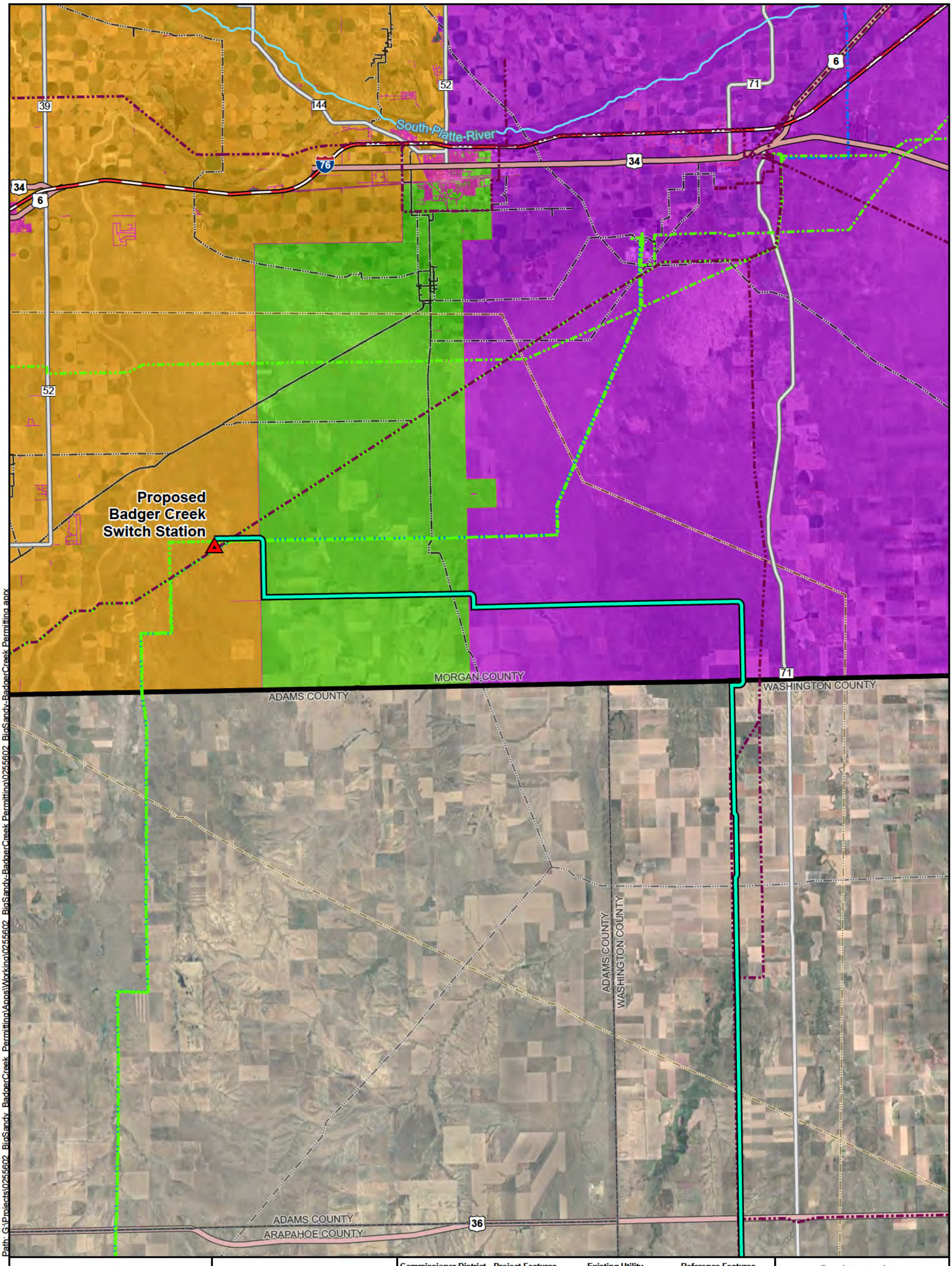
Existing Utility
- Substation
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- 69 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Water Resources
- Stream/River (NHD)
- Wetlands (NWI)
- Waterbody (NHD)

Reference Features
- Interstate Highway
- State Highway
- US Highway
- County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.





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COMMISSIONER DISTRICT MAP

0 1 2 3 4

Miles

POWER ENGINEERS MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:190,080	1 inch = 3 miles
Map Rev: 1	Date: 7/25/2025

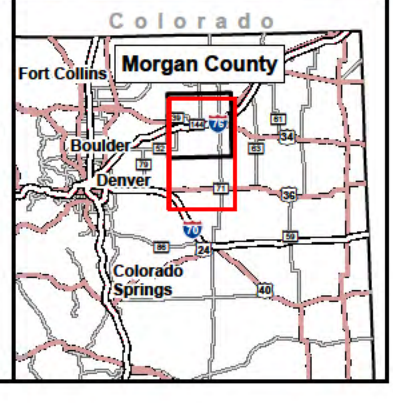
Commissioner District
- District 1
- District 2
- District 3

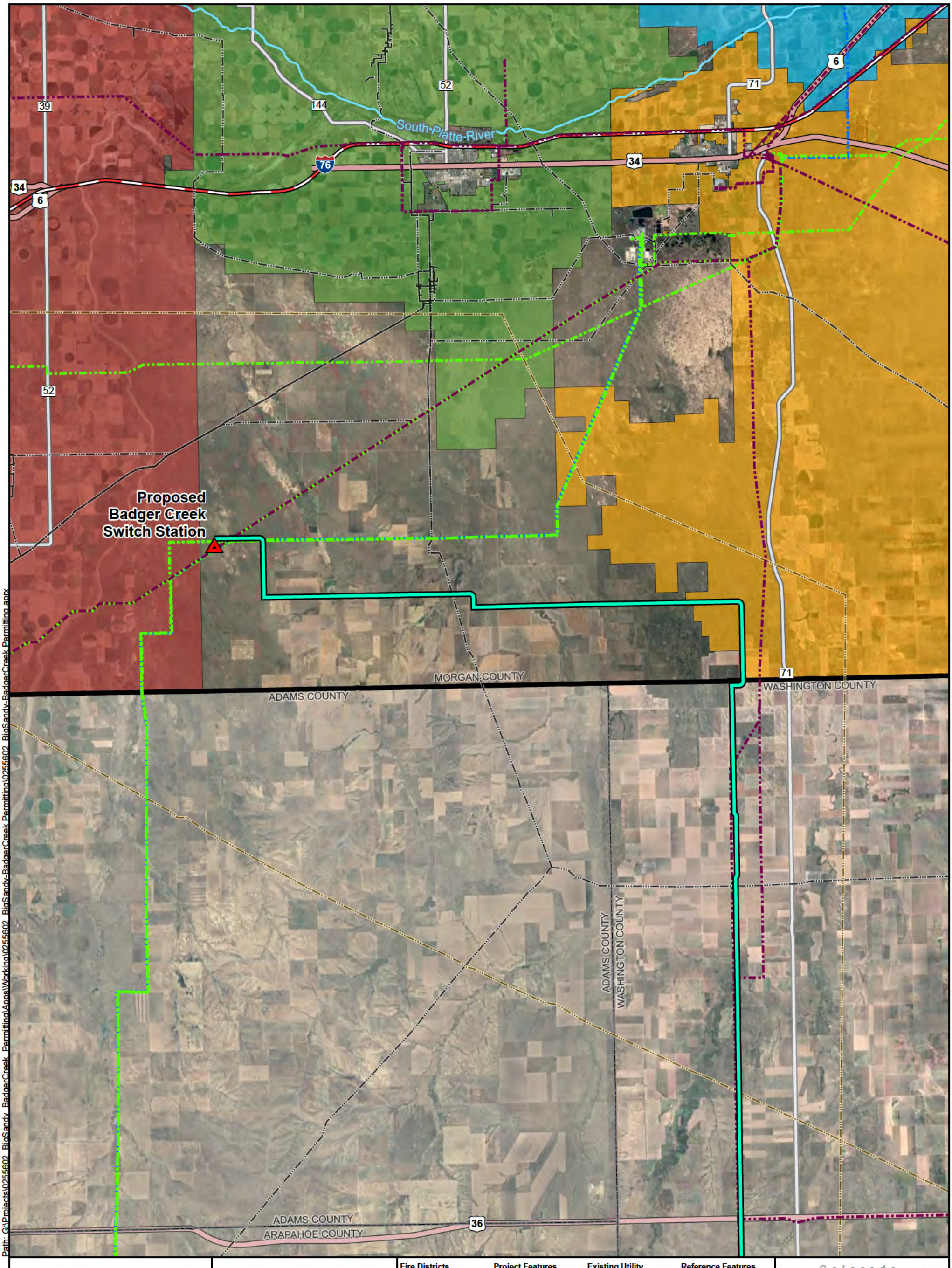
Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- Stream/River (NHD)
- County Boundary
- Morgan County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.





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FIRE DISTRICT MAP

0 1 2 3 4

Miles

POWER ENGINEERS MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:190,080	1 inch = 3 miles
Map Rev: 1	Date: 7/25/2025

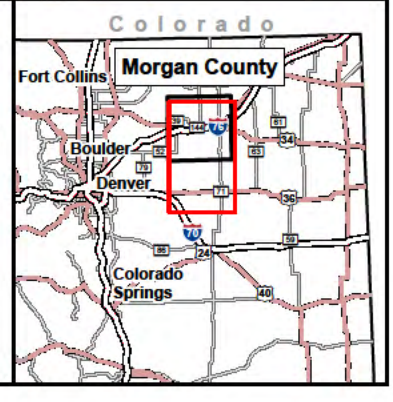
Fire Districts
- Brush Fire Department
- Fort Morgan Fire Department
- Hillrose Fire Department
- Wiggins Fire Department

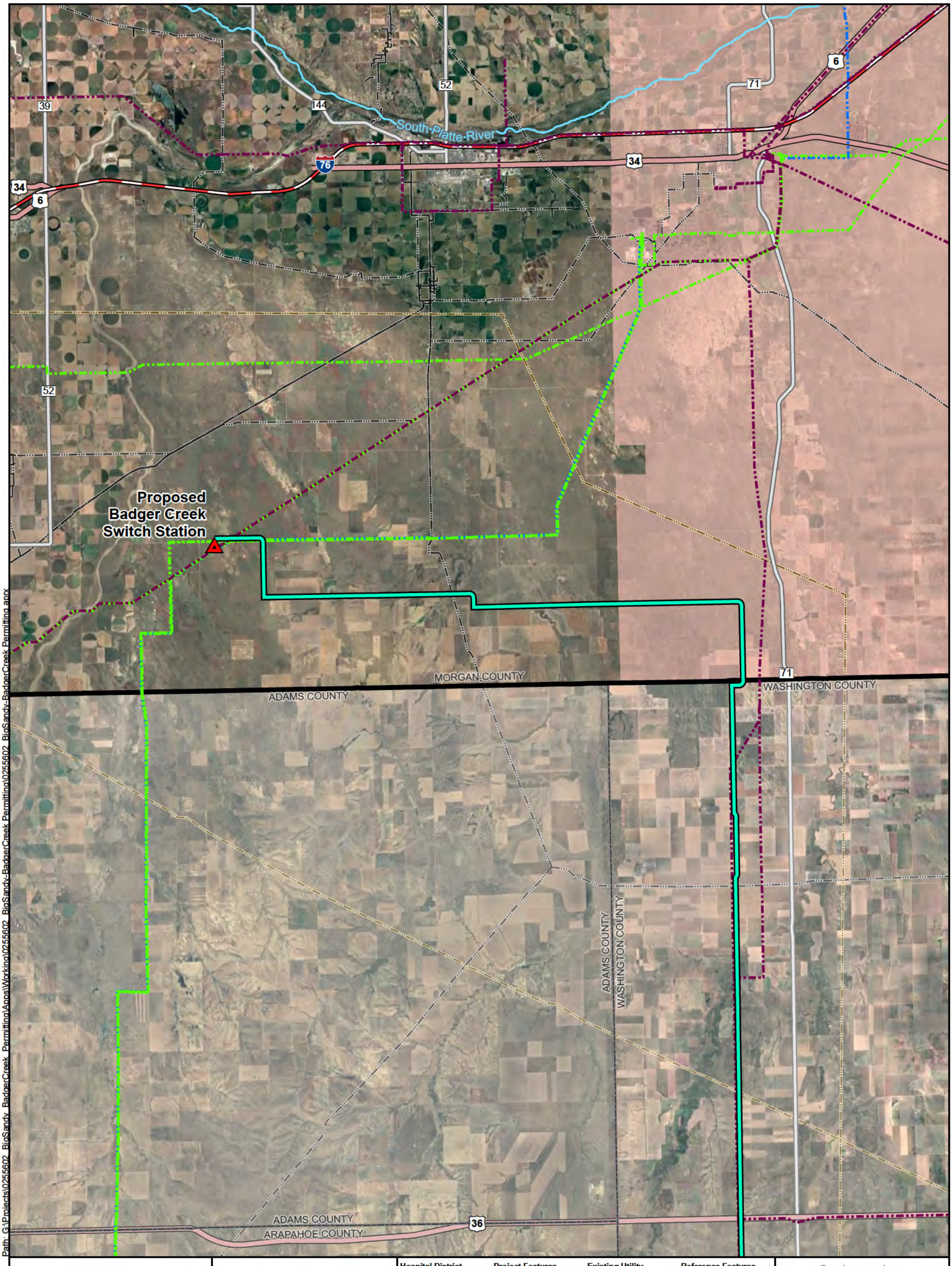
Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- Stream/River (NHD)
- County Boundary
- Morgan County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.





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HOSPITAL DISTRICT MAP

0 1 2 3 4

Miles

POWER ENGINEERS MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:190,080	1 inch = 3 miles
Map Rev: 1	Date: 7/25/2025

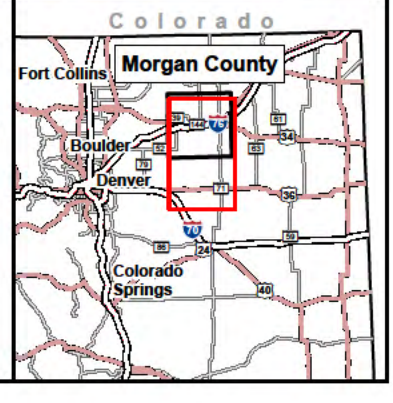
Hospital District
- East Morgan County Hospital District

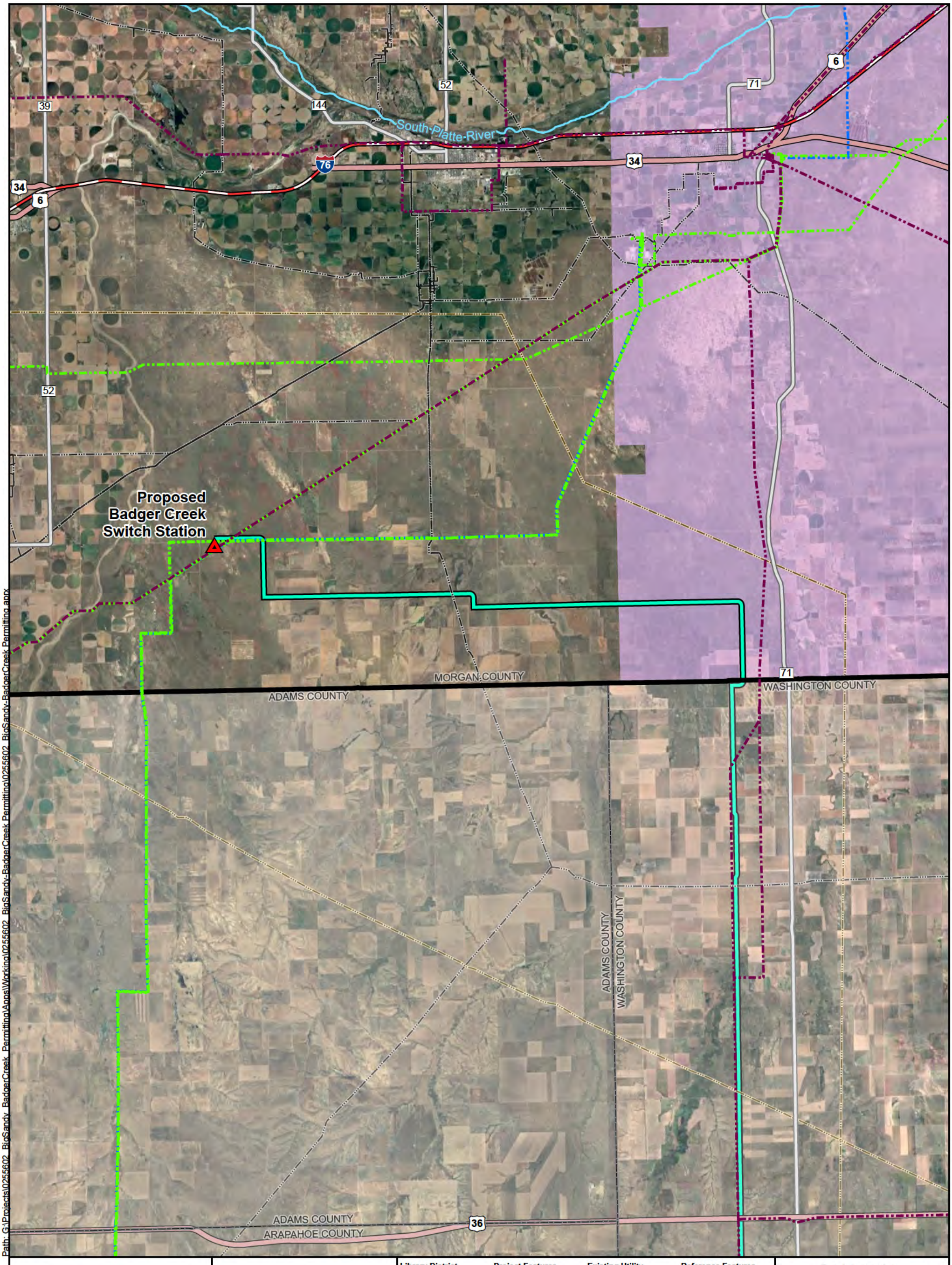
Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- Stream/River (NHD)
- County Boundary
- Morgan County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.





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LIBRARY DISTRICT MAP

0 1 2 3 4

Miles

POWER ENGINEERS MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:190,080	1 inch = 3 miles
Map Rev: 1	Date: 7/25/2025

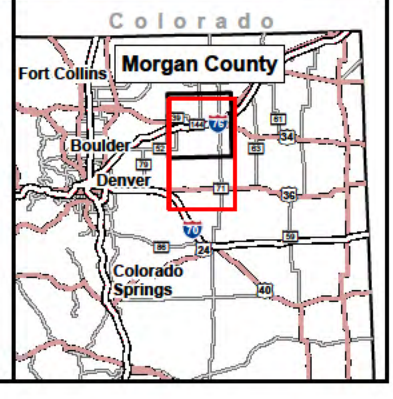
Library District
- East Morgan County Library District

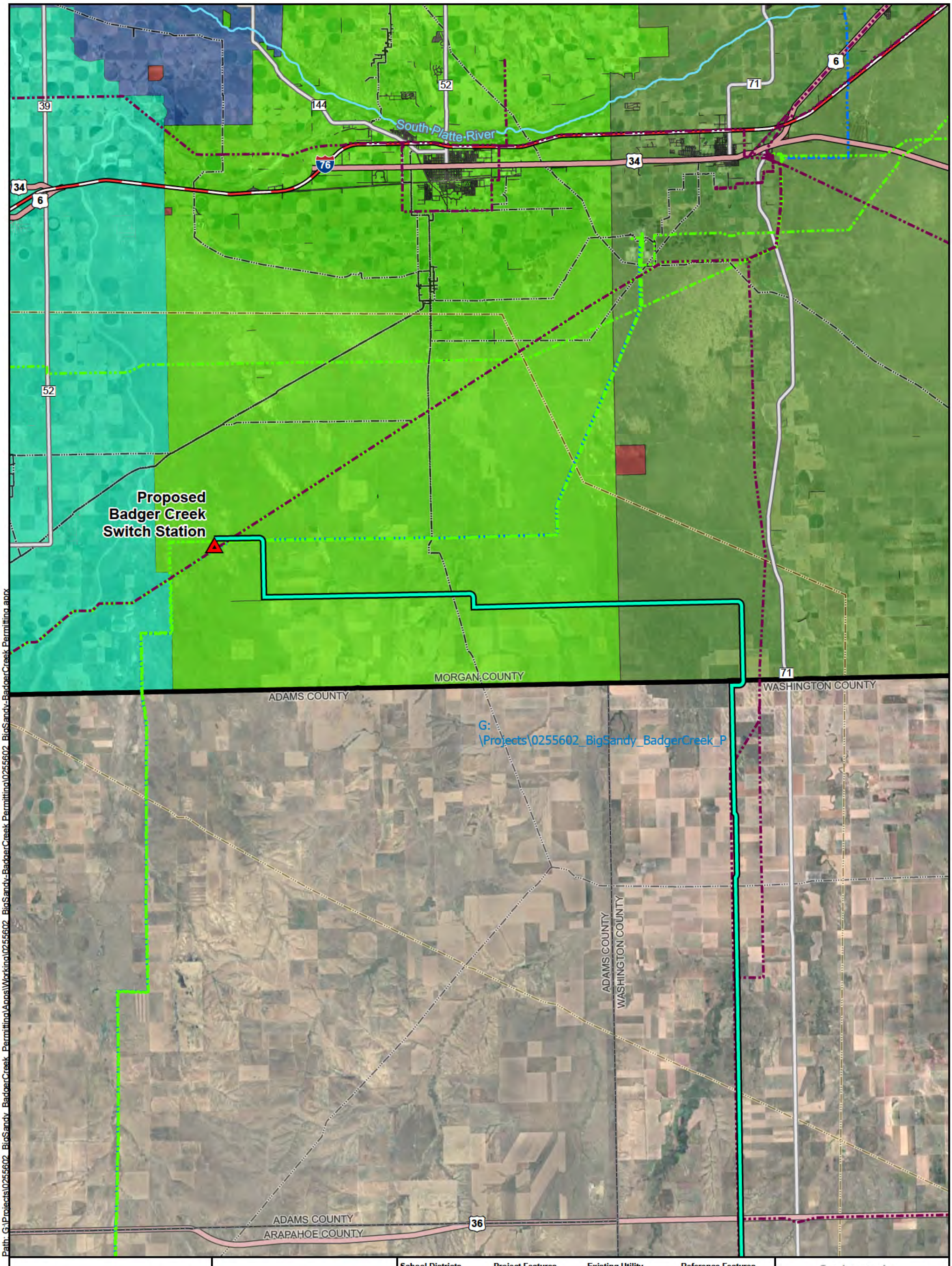
Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- Stream/River (NHD)
- County Boundary
- Morgan County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.





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SCHOOL DISTRICT MAP

0 1 2 3 4

Miles

POWER ENGINEERS
MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

1:190,080	1 inch = 3 miles
Map Rev: 1	Date: 7/25/2025

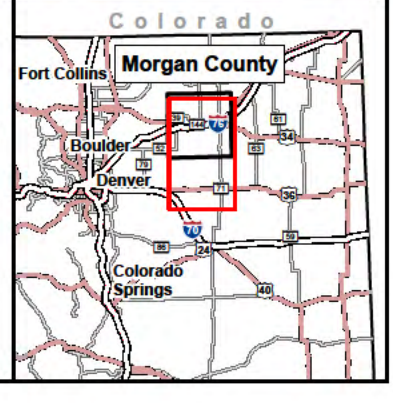
School Districts
- Re-1
- Re-2
- Re-3
- Re-20
- Re-50

Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

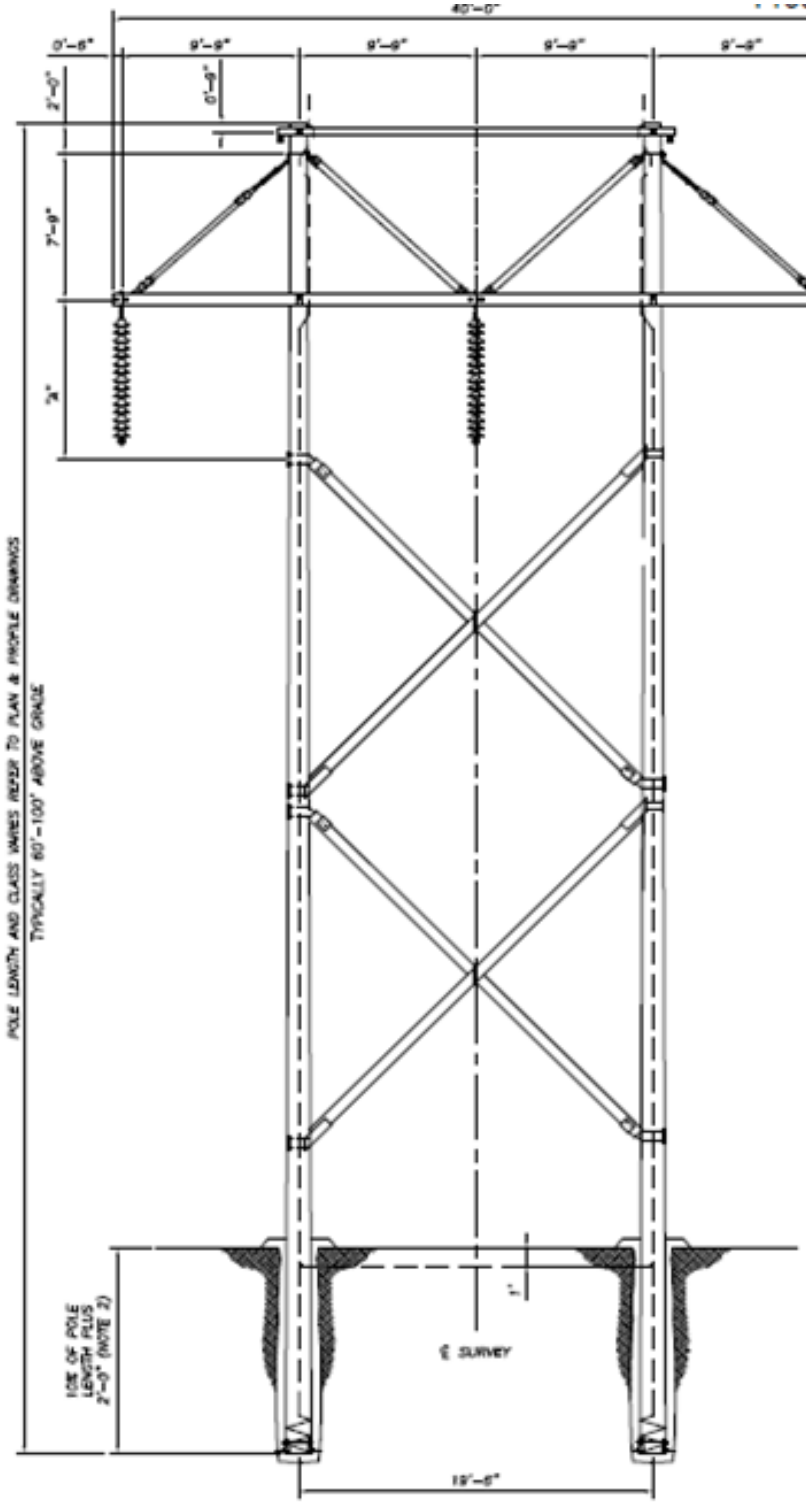
Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- Interstate Highway
- State Highway
- US Highway
- Stream/River (NHD)
- County Boundary
- Morgan County Boundary

NOTE: Route alternative has been offset cartographically to show underlying parallel facilities.



APPENDIX C DRAWINGS AND PHOTOS



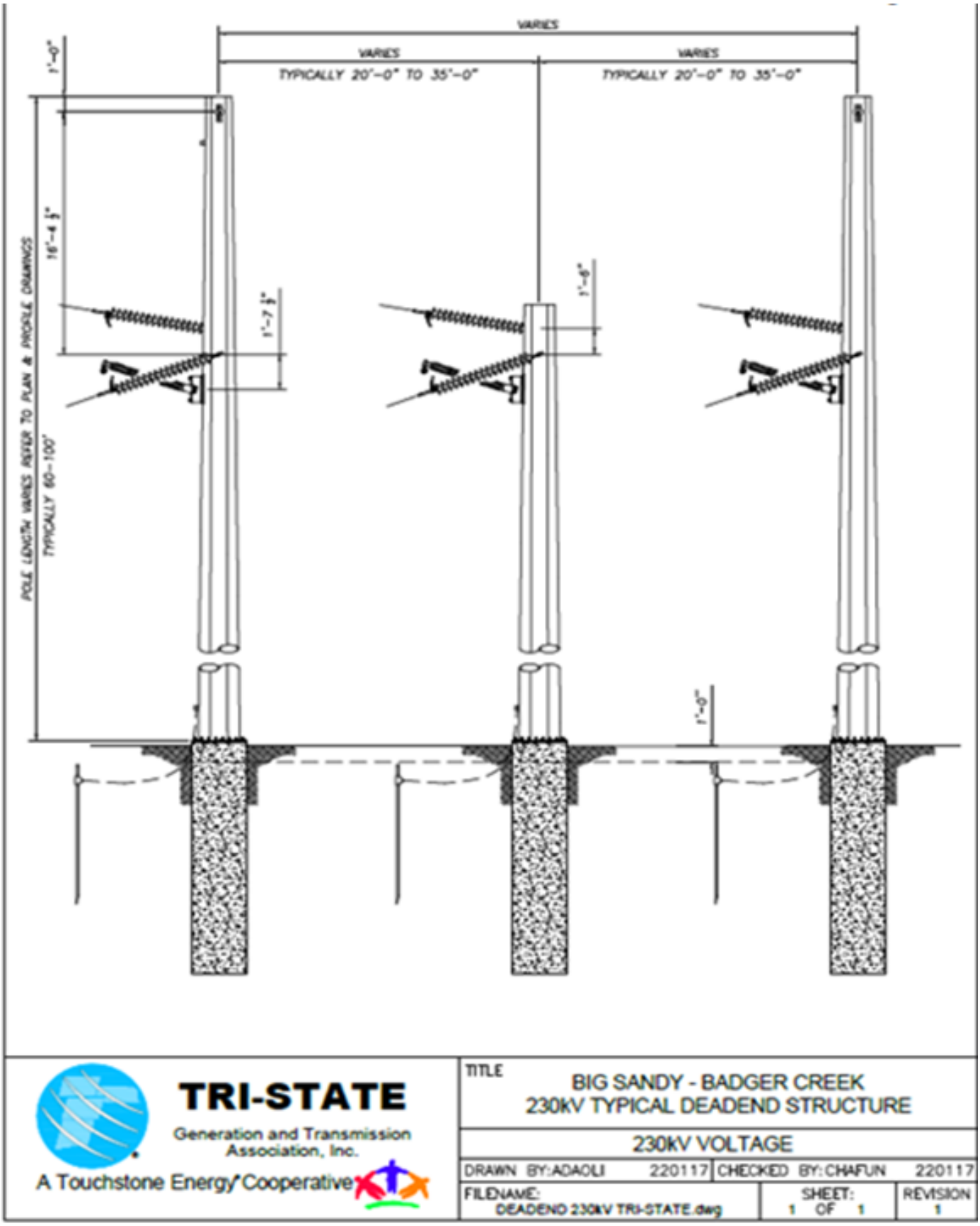
TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative

TITLE
BIG SANDY - BADGER CREEK
230kV TYPICAL TANGENT STRUCTURE

230kV VOLTAGE

DRAWN BY: ADAOLI 220117	CHECKED BY: CHAFUN 220117	
FILENAME: TANGENT 230kV TRI-STATE.dwg	SHEET: 1 OF 1	REVISION 1

PROPOSED 230 KV TANGENT STRUCTURE



PROPOSED 230 KV DEAD-END STRUCTURE

APPENDIX D LANDOWNER LIST / MINERAL OWNERSHIP / CERTIFICATE LETTER

Property Owners within 500 Feet from Centerline in Morgan County

The following list includes all landowners within 500 feet of the proposed transmission line alignment. The alignment, and therefore this list, are preliminary, as discussions with landowners are ongoing and may affect micro-siting decisions.

LANDOWNER LIST, REPEATS REMOVED:

Landowner Name	Parcel No.(s)	Mailing Address
Randy Owen Fiscus	149135000002	PO Box 803, Brush, CO, 80723
Craig J & Sharon L Quick Revocable Trust	149135000001, 149126000002	26306 County RD J, Woodrow, CO, 80757
Joseph R & Ann M Archuleta	149134000002	PO Box 922, Snyder, CO, 80750
Douglas Queen	149134000001	PO Box 731, Brush, CO, 80723
Curtis Ranch LLP	149127000001, 149123000001, 149122000002, 149121000001	3769 HWY 71, Brush, CO 80723
Doris J Chenoweth Trust	149126000001, 149123000002	11373 Jersey Way, Thornton, CO, 80233
DJD David Properties LLC	149121000002, 149120000001	7300 County RD 15, Fort Morgan, CO, 80701
Shifting Sands Ranch, LLC	149119000001, 148924000001, 148923000001, 148922000001	PO Box 175, Roggen, CO, 80652
Lewton Land Co.	148923000004, 148923000003, 148922000004, 148921000002	47500 E 144th Ave, Bennett, CO, 80102
Glenn Ranch & Cattle Company RLLP	148922000002, 148921000001, 148920000001	6432 County RD 19, Fort Morgan, CO, 80701
Tammy Jess Trust	148919000003, 148713000004	17265 County RD V, Fort Morgan, CO, 80701
Terry Musgrave	148919000001, 148918000002, 148724000002	2614 County RD 18, Fort Morgan, CO, 80701
Madeleine R Drake	148724000001, 148714000002	1351 W 27TH Dr, San Pedro, CA 90731
Irene Nellie & Cary David Strauss	148713000003	6837 W Fellet LN, Lakewood, CO, 80227
Eldon D & Karen K Hawes	148723000001, 148720000001, 148717000002, 148717000001, 148719000001, 148718000001	3757 County RD 14, Fort Morgan, CO, 80701
Good Family Trust	148723000002, 148714000001, 148715000003	22760 County RD R, Fort Morgan, CO, 80701

Ruth & Mary Beardsley	148722000001	41919 156TH ST S E, Gold Bar, WA, 98251
Linnebur Grain & Buffalo LLLP	148722000002, 148715000002, 148721000001	74600 HWY 36, Byers , CO, 80103
State of Colorado	148716000900	1313 Sherman St, RM 620, Denver, CO, 80203
Freund Investments LLC	148718000002, 148512000002, 148707000003	15460 E Batavia Dr, Aurora, CO, 80011
Jerry D and Monica L Wolfswinkel	148524000001,148513000001	8269 County RD F, Wiggins, CO, 80654
Billis Ranch Solar LLC	148512000001, 148501000001, 148502000001, 148511000001	12152 E 168TH AVE BRIGHTON, CO 80602
Howard Kuhlman	148707000002	1679 WILDFLOWER DR BRIGHTON, CO 80601
Gerard R & Kelly R Graybill	148706000001	6441 Weld County RD 67, Keenesburg, CO, 80643

COMPLETE LIST IN ORDER OF PARCELS CROSSED:

Landowner Name	Parcel No.	Mailing Address	S	T	R
Randy Owen Fiscus	149135000002	PO Box 803, Brush, CO, 80723	35	1N	56W
Craig J & Sharon L Quick Revocable Trust	149135000001	26306 County RD J, Woodrow, CO, 80757	35	1N	56W
Joseph R & Ann M Archuleta	149134000002	PO Box 922, Snyder, CO, 80750	34	1N	56W
Douglas Queen	149134000001	PO Box 731, Brush, CO, 80723	34	1N	56W
Curtis Ranch LLP	149127000001	3769 HWY 71, Brush, CO 80723	27	1N	56W
Craig J & Sharon L Quick Revocable Trust	149126000002	26306 County RD J, Woodrow, CO, 80757	26	1N	56W
Doris J Chenoweth Trust	149126000001	11373 Jersey Way, Thornton, CO, 80233	26	1N	56W
Doris J Chenoweth Trust	149123000002	11373 Jersey Way, Thornton, CO, 80233	23	1N	56W
Curtis Ranch LLP	149123000001	3769 HWY 71, Brush, CO 80723	23	1N	56W

Curtis Ranch LLP	149122000002	3769 HWY 71, Brush, CO 80723	22	1N	56W
Curtis Ranch LLP	149121000001	3769 HWY 71, Brush, CO 80723	21	1N	56W
DJD David Properties LLC	149121000002	7300 County RD 15, Fort Morgan, CO, 80701	21	1N	56W
DJD David Properties LLC	149120000001	7300 County RD 15, Fort Morgan, CO, 80701	20	1N	56W
Shifting Sands Ranch, LLC	149119000001	PO Box 175, Roggen, CO, 80652	19	1N	56W
Shifting Sands Ranch, LLC	148924000001	PO Box 175, Roggen, CO, 80652	24	1N	57W
Shifting Sands Ranch, LLC	148923000001	PO Box 175, Roggen, CO, 80652	23	1N	57W
Lewton Land Co.	148923000004	47500 E 144th Ave, Bennett, CO, 80102	23	1N	57W
Lewton Land Co.	148923000003	47500 E 144th Ave, Bennett, CO, 80102	23	1N	57W
Lewton Land Co.	148922000004	47500 E 144th Ave, Bennett, CO, 80102	22	1N	57W
Shifting Sands Ranch, LLC	148922000001	PO Box 175, Roggen, CO, 80652	22	1N	57W
Glenn Ranch & Cattle Company RLLP	148922000002	6432 County RD 19, Fort Morgan, CO, 80701	22	1N	57W
Glenn Ranch & Cattle Company RLLP	148921000001	6432 County RD 19, Fort Morgan, CO, 80701	21	1N	57W
Lewton Land Co.	48921000002	47500 E 144th Ave, Bennett, CO, 80102	21	1N	57W
Glenn Ranch & Cattle Company RLLP	148920000001	6432 County RD 19, Fort Morgan, CO, 80701	20	1N	57W
Tammy Jess Trust	148919000003	17265 County RD V, Fort Morgan, CO, 80701	19	1N	57W
Terry Musgrave	148919000001	2614 County RD 18, Fort Morgan, CO, 80701	19	1N	57W
Terry Musgrave	148918000002	2614 County RD 18, Fort Morgan, CO, 80701	18	1N	57W
Terry Musgrave	148724000002	2614 County RD 18, Fort Morgan, CO, 80701	24	1N	58W

Madeleine R Drake	148724000001	1351 W 27TH Dr, San Pedro, CA 90731	24	1N	58W
Tammy Jess Trust	148713000004	17265 County RD V, Fort Morgan, CO, 80701	13	1N	57W
Irene Nellie & Cary David Strauss	148713000003	6837 W Fellet LN, Lakewood, CO, 80227	13	1N	57W
Eldon D & Karen K Hawes	148723000001	3757 County RD 14, Fort Morgan, CO, 80701	23	1N	58W
Madeleine R Drake	148714000002	1351 W 27TH Dr, San Pedro, CA 90731	14	1N	58W
Good Family Trust	148723000002	22760 County RD R, Fort Morgan, CO, 80701	23	1N	58W
Good Family Trust	148714000001	22760 County RD R, Fort Morgan, CO, 80701	14	1N	58W
Ruth & Mary Beardsley	148722000001	41919 156TH ST S E, Gold Bar, WA, 98251	22	1N	58W
Linnebur Grain & Buffalo LLLP	148722000002	74600 HWY 36, Byers , CO, 80103	22	1N	58W
Linnebur Grain & Buffalo LLLP	148715000002	74600 HWY 36, Byers , CO, 80103	15	1N	58W
Robert H & Mary E Good	148715000003	22760 County RD R, Fort Morgan, CO 80701	15	1N	58W
Linnebur Grain & Buffalo LLLP	148721000001	74600 HWY 36, Byers , CO, 80103	21	1N	58W
State of Colorado	148716000900	1313 Sherman St, RM 620, Denver, CO, 80203	16	1N	58W
Eldon D & Karen K Hawes	148720000001	3757 County RD 14, Fort Morgan, CO, 80701	20	1N	58W
Eldon D & Karen K Hawes	148717000002	3757 County RD 14, Fort Morgan, CO, 80701	17	1N	58W
Eldon D & Karen K Hawes	148717000001	3757 County RD 14, Fort Morgan, CO, 80701	17	1N	58W
Eldon D & Karen K Hawes	148719000001	3757 County RD 14, Fort Morgan, CO, 80701	19	1N	58W

Eldon D & Karen K Hawes	148718000001	3757 County RD 14, Fort Morgan, CO, 80701	18	1N	58W
Freund Investments LLC	148718000002	15460 E Batavia Dr, Aurora, CO, 80011	18	1N	58W
Jerry D and Monica L Wolfswinkel	148524000001	8269 County RD F, Wiggins, CO, 80654	24	1N	59W
Jerry D and Monica L Wolfswinkel	148513000001	8269 County RD F, Wiggins, CO, 80654	13	1N	59W
Freund Investments LLC	148512000002	15460 E Batavia Dr, Aurora, CO, 80011	12	1N	59W
Freund Investments LLC	148707000003	15460 E Batavia Dr, Aurora, CO, 80011	7	1N	59W
Billis Ranch Solar LLC	148512000001	12152 E 168TH AVE, BRIGHTON, CO 80602	12	1N	59W
Howard Kuhlman	148707000002	1679 WILDFLOWER DR BRIGHTON, CO 80601	7	1N	58W
Gerard R & Kelly R Graybill	148706000001	6441 Weld County RD 67, Keenesburg, CO 80643	6	1N	58W
Billis Ranch Solar LLC	148501000001	12152 E 168TH AVE BRIGHTON, CO 80602	1	1N	59W
Billis Ranch Solar LLC	148502000001	12152 E 168TH AVE BRIGHTON, CO 80602	2	1N	59W
Billis Ranch Solar LLC	148511000001	12152 E 168TH AVE BRIGHTON, CO 80602	11	1N	59W

ETR Land Services, LLC

P.O. Box 476
Timnath CO 80547

MINERAL OWNERSHIP REPORT

Morgan County, CO

Township 1 North, Range 59 West, 6th P.M.
Section 11: All

Containing 640.00 acres, more or less

Morgan County Records inspected from Patent through 7/31/2025

MINERAL INTEREST OWNER	INTEREST	NET ACRES	LEASEHOLD STATUS
Billis Ranch Solar LLC 12152 E 168th Ave. Brighton, CO 80602 **Vesting Document:** Quit Claim Deed: Rec. No. 939854 See Note 4	62.5000%	400.00000	**APPEARS OPEN**
Heritage Oil Co. c/o Ralph A. Dinkel 8683 E. Lincoln Ave. #250 Lone Tree, CO 80124 **Vesting Document:** Mineral Deed: Rec. No. 872175	6.2500%	40.00000	**APPEARS OPEN**
Triple T Investments, LLC 15366 Road O Fort Morgan, CO 80701 **Vesting Document:** Quit Claim Mineral Deed: Rec. No. 872536	6.2500%	40.00000	**APPEARS OPEN**
Estate of Fenner N. Cunningham, dec'd **Vesting Document:** Warranty Deed: Rec. No. 403981 See Note 3	6.2500%	40.00000	**APPEARS OPEN**
Estate of Amanta M. Cunningham, dec'd **Vesting Document:** Warranty Deed: Rec. No. 403981 See Note 3	6.2500%	40.00000	**APPEARS OPEN**
Ellen McCauley UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281 See Note 4	1.5625%	10.00000	**APPEARS OPEN**
Margaret McCauley UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281 See Note 4	1.5625%	10.00000	**APPEARS OPEN**
Teresa Naughton UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281	1.5625%	10.00000	**APPEARS OPEN**

See Note 4			
Annie Gallagher UNKNOWN Vesting Document: Mineral Deed: Rec. No. 732281 See Note 4	1.5625%	10.00000	APPEARS OPEN
Robert Drew 6459 A Zang St., Apt. #A Arvada, CO 8004 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Jeannette Wilcox Route 1 – Box 521, Space #53 Warrenton, OR 97146 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Curtis E. Drew 899 Pearl St., Apt. #2 Denver, CO 80203-3321 Vesting Document: Affidavit of Heirship: Rec. No. 874729 Affidavit of Heirship: Rec. No. 874730 See Note 4	0.3472%	2.22222	APPEARS OPEN
Delbert Drew 823 27th Ave. Greeley, CO 80634 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Donald Drew 321 South Lake St. Fort Morgan, CO 80701 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
John J. Hegarty 9787 West Peak View Dr. Littleton, CO 80123-3195 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Warren Drew 4399 Pinto Rd. Kingman, AZ 86401 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Pricilla Peters 6891 East 80th Ave. Commerce City, CO 80022	0.3472%	2.22222	APPEARS OPEN

Vesting Document: PR Deed: Rec. No. 725689 See Note 4			
Patricia Ann Regan as Trustee of Patricia A. Regan Living Trust UNKNOWN Vesting Document: Trust Deed: Rec. No. 939105 See Note 4	0.3472%	2.22222	APPEARS OPEN
Phyllis Pompilil 2007 Unit D Aurora CO, 80013 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
John Michael Drew 12063 Glencoe St. Thornton, CO 80241 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Daniece Drew 1100 Linda St., Apt. A117 Fort Morgan, CO 80701 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	APPEARS OPEN
Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd Attn: McClary Law P.O. Box 597 Fort Morgan, CO 80701 Vesting Document: Letters Testamentary: Rec. No. 925498 See Note 4	0.3472%	2.22222	APPEARS OPEN
Pam Roberts, ala Pam Taylor 4624 Valley Overlook Dr., Apt. 206 Midlothian, VA 23112 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.1736%	1.11111	APPEARS OPEN
David Roberts aka Michael David Roberts 1442 Pinecone St. Moscow, ID 83843 Vesting Document: PR Deed: Rec. No. 725689 See Note 4	0.1736%	1.11111	APPEARS OPEN
Crisanne Orgaard 3717 Normandy St. Bismarck, ND 58503 Vesting Document: Quit Claim Deed: Rec. No. 903273 See Note 4	0.1157%	0.74074	APPEARS OPEN

Kay Renee Bear 14905 E. Alki Ln. Spokane Valley, WA 99216 <u>Vesting Document:</u> Quit Claim Deed: Rec. No. 903273 See Note 4	0.1157%	0.74074	APPEARS OPEN
John Edward Drew 1337 Albany Dr. Bismarck, ND 58504 <u>Vesting Document:</u> Quit Claim Deed: Rec. No. 903273 See Note 4	0.1157%	0.74074	APPEARS OPEN
Jim Drew aka James Drew P.O. Box 1235 Jamestown, ND 585401 <u>Vesting Document:</u> PR Deed: Rec. No. 725689 See Note 4	0.1157%	0.74074	APPEARS OPEN
Rae Ann Drew HCR Route 38, Box 70 Las Vegas, NV 89124-9105 <u>Vesting Document:</u> PR Deed: Rec. No. 725689 See Note 4	0.1157%	0.74074	APPEARS OPEN
Susan M. Hergenreter c/o 84577 Highway 144 Weldona, CO 80653 <u>Vesting Document:</u> PR Deed: Rec. No. 892517 See Note 4	0.0868%	0.55556	APPEARS OPEN
Ronald E. Cox c/o 84577 Highway 144 Weldona, CO 80653 <u>Vesting Document:</u> PR Deed: Rec. No. 892517 See Note 4	0.0868%	0.55556	APPEARS OPEN
Kathleen L. Lorenzini c/o 84577 Highway 144 Weldona, CO 80653 <u>Vesting Document:</u> PR Deed: Rec. No. 892517	0.0868%	0.55556	APPEARS OPEN
Colleen K. Gilliland c/o 84577 Highway 144 Weldona, CO 80653 <u>Vesting Document:</u> PR Deed: Rec. No. 892517 See Note 4	0.0868%	0.55556	APPEARS OPEN
Carol Easter 29 Hartford Dr. Lucasville, OH 45648 <u>Vesting Document:</u> Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	APPEARS OPEN

Connie Evans 1510 Lake Point Way, Unit 43 Centerville, OH 45459 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**
Gary Hudson 7795 Normandy Ln. Centerville, OH 45459 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**
Gregg Hudson 2700 Richlawn Cir. Kettering, OH 45440 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**
Elisa Drew 3427 E. 117th Place Thornton, CO 80233 **Vesting Document:** Affidavit of Heirship: Rec. No. 873905 See Note 4	0.0579%	0.37037	**APPEARS OPEN**
Phillip Brian Drew 2015 N. Main Logan, UT 84341 **Vesting Document:** Affidavit of Heirship: Rec. No. 873905 See Note 4	0.0579%	0.37037	**APPEARS OPEN**
Renee Gibbs 500 Kauffman Ave. Fairborn OH 45324 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 See Note 4	0.0347%	0.22222	**APPEARS OPEN**
Brad Cooper 500 Kauffman Ave. Fairborn OH 45324 **Vesting Document:** Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0347%	0.22222	**APPEARS OPEN**
TOTAL	**100.000000%**	**640.00000**	

Tax Info: Account: R010870
Parcel #: 1485-110-00-001

Liens: Not checked

Mortgages: Not checked

Production/Permits: Pursuant to a search of the Colorado Oil and Gas Conservation Commission website (http://cogcc.state.co.us/) on 8/3/2025, there are no producing wells in Section 11, Township 1 North, Range 59 West, 6th p.m.

Title Notes:

1. Anthony Malick obtained the E2 of Section 11 through a patent from the United States found at Reception Number 537599 dated July 11, 1916. The next conveyance of this property is from the estate Anna Malick, by decree found at Reception Number 372779, dated October 18, 1951. Further curative may be needed to find a probate record for Anthony Malick to ensure Anna Malick was his heir.

2. Ben, Andrew, John and Frank Malick conveyed all of Section 11 to Fenner and Amanta Cunningham by Warranty Deed found at Reception Number 384939, dated January 7, 1953. In this deed they reserved an undivided one-half of a non-participating royalty. No further information, including addresses for the Malick's are found of record.

3. Fenner and Amanta Cunningham, et al conveyed all of Section 11 to James Hegarty by Warranty Deed found at Reception Number 550911, dated October 4, 1968. In this deed, they reserved an undivided ¼ interest in and to all oil, gas and other minerals. It appears that Fenner and Amanta Cunningham are deceased. It appears through Quitclaim Mineral Deeds found at Reception Numbers 769692 and 769693, Donald F. Cunningham and Delbert C. Cunningham are their heirs. However, curative will be needed to locate the probate for Fenner and Amanta Cunningham to verify their heirs.

4. John and Bernice Higgins conveyed 1/8 minerals to all of Section 11 to Farmers State Bank, Trustee, by Mineral Deed found at Reception Number 572935. In this mineral deed, they specifically reserved all executive rights. These rights are now owned by the current mineral owner, Billis Ranch Solar, LLC.

The above-described lands may be subject to possible unrecorded changes in ownership not found in the county records. This Ownership Report is intended to cover instruments properly indexed in the Morgan County Clerk and Recorder's Office and from selected, related court and/or real estate records in connection with the subject lands. This report was made solely for the benefit of ETR Land Services, LLC for the purpose of assisting in a determination of apparent public record ownership and leasehold status of the mineral lands involved. The instruments and records referred to and reported on have not been examined to determine their legal sufficiency. No warranty of title is expressed or implied in the accompanying report. ETR Land Services, LLC and the undersigned accept no liability for the use of the material contained herein.

Prepared By: Erica McCormac, ETR Land Services, LLC
Dated: August 5, 2025

Property Record Card

Morgan

BILLIS RANCH SOLAR LLC

12152 E 168TH AVE
BRIGHTON, CO 80602

Account: R010870
Tax Area: 227 - RE 3
Acres: 640.000

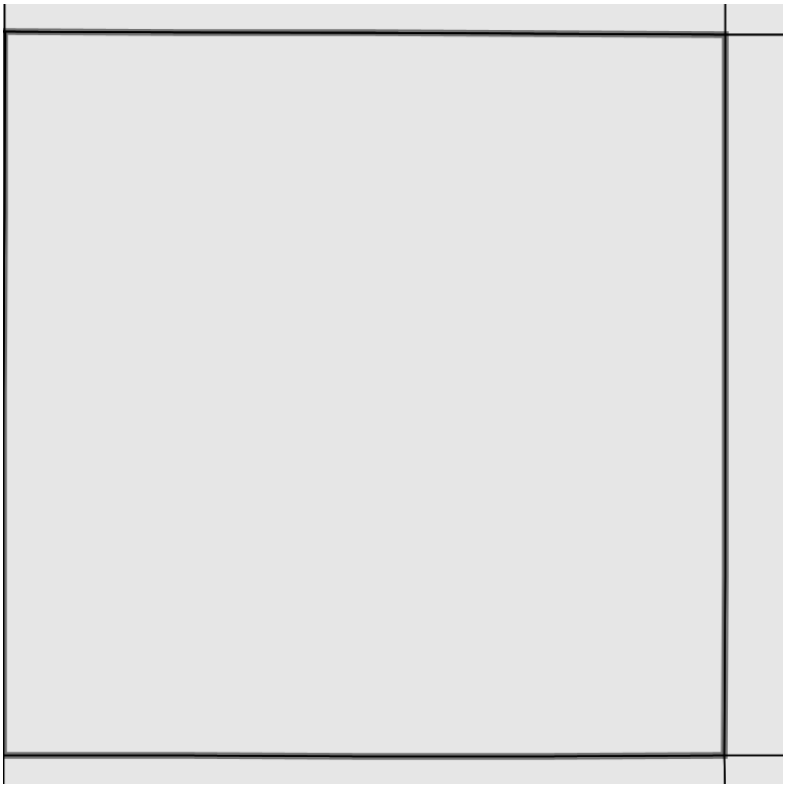
Parcel: 1485-110-00-001
Situs Address:

Account Type 4000 - AG

Value Summary

Value By:	Market	Override
Land (1)	$19,540	N/A
Land (2)	$1,920	N/A
Land (3)	$50	N/A
Total	**$21,510**	**$21,510**

Legal Description
S: 11 T: 1 R: 59 ALL



Sale Data

Doc. #	Sale Date	Deed Type	Validity	Verified	Sale Price	Ratio	Adj. Price	Ratio	Time Adj. Price	Ratio
823370	12/17/2004	SWD	UI	N	$1,399,600	1.54	$1,399,600	1.54	$1,399,600	1.54

Land Occurrence 1

Property Code 4147 - GRAZING LAND Land Use Code 414720 - GR GB1

SubArea		FOOTPRINT	ACTUAL	EFFECTIVE	HEATED
Acres			552		
Total			552.00		
	Value	Rate	Rate	Rate	Rate
	$19,540		35.40		

Property Record Card

Morgan

Land Occurrence 2

Property Code	4147 - GRAZING LAND	Land Use Code	414730 - GR GC1

SubArea		FOOTPRINT	ACTUAL	EFFECTIVE	HEATED
Acres			80		
Total			80.00		
	Value	**Rate**	**Rate**	**Rate**	**Rate**
	$1,920		24.00		

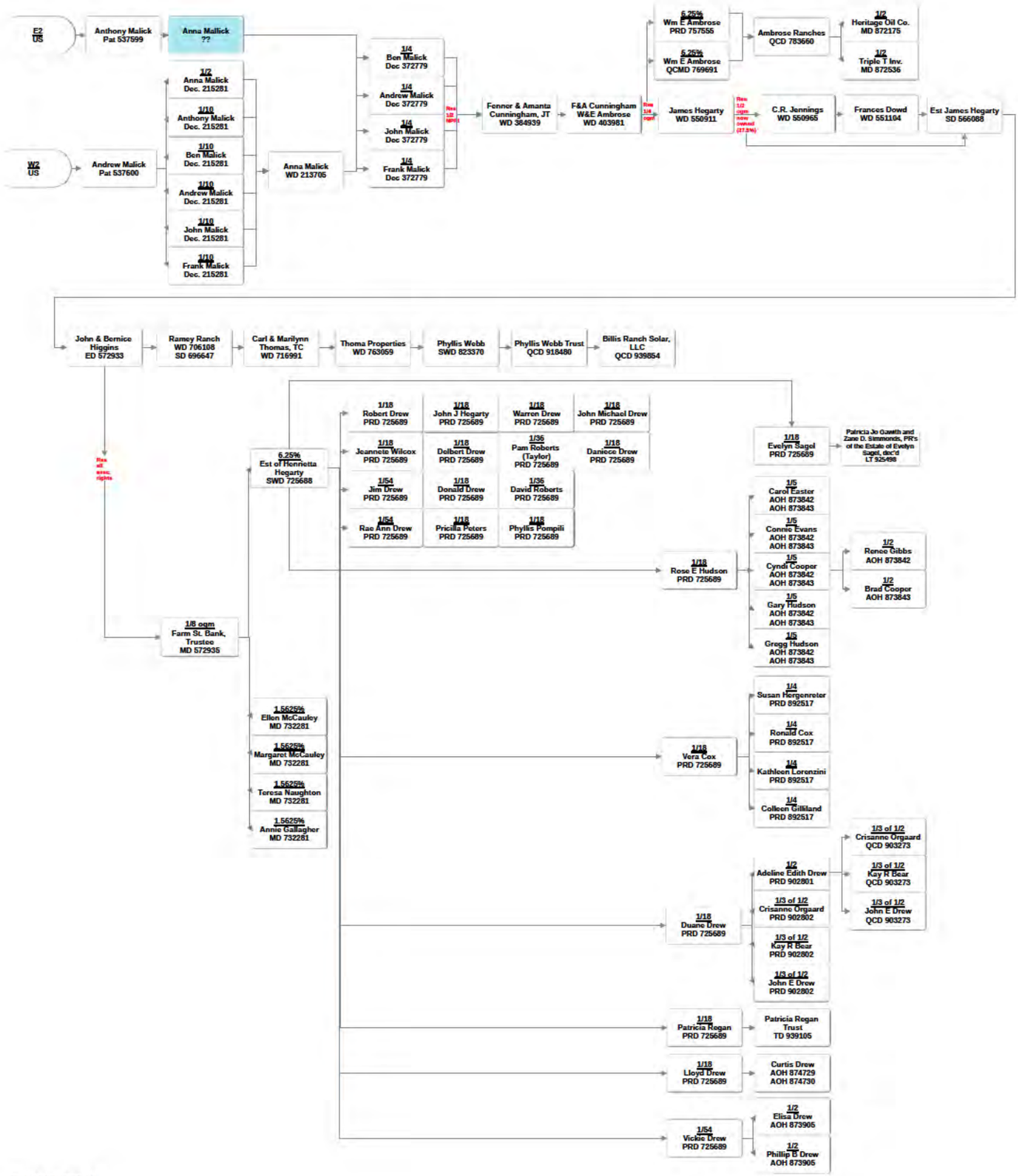
Land Occurrence 3

Property Code	4167 - FARM/RANCH WASTE LAND	Land Use Code	416760 - ROAD/DITCH

SubArea		FOOTPRINT	ACTUAL	EFFECTIVE	HEATED
Acres			8		
Total			8.00		
	Value	**Rate**	**Rate**	**Rate**	**Rate**
	$50		6.25		

Abstract Summary

Code	Classification	Non-School Actual Value	Non-School Taxable Value	School Actual Value	School Taxable Value	Actual Value Override	Taxable Override
4147	GRAZING LAND	$21,460	$5,790	$21,460	$5,790	$21,460	$5,790
4167	FARM/RANCH WASTE LAND	$50	$10	$50	$10	$50	$10
Total		**$21,510**	**$5,800**	**$21,510**	**$5,800**	**$21,510**	**$5,800**



T1N-R59W Sec. 11

MINERAL TITLE RUN SHEET

Township 1 North - Range 59 West, Section 11: ALL
Morgan County, Colorado
From Patent to 7/31/2025

REC. NO.	INST.	EFF. DATE	REC. DATE	GRANTOR	GRANTEE	DESCRIPTION	COMMENTS
537599 BLM	Patent	7/11/1916	7/11/1916	United States of America	Anthony Malick	T1N-R59W Sec. 11: E2 320 ac.	NMR
537600 BLM	Patent	7/11/1916	7/11/1916	United States of America	Andrew Malick	T1N-R59W Sec. 11: W2 320 ac.	NMR
215281	Decree	4/29/1932	5/5/1932	In the Matter of the interests of Andrew Malick, dec'd	Anna Malick, 1/2 Anthony Malick, 1/10 Ben Malick, 1/10 Andrew Malick, 1/10 John Malick, 1/10 Frank Malick, 1/10	T1N-R59W Sec. 11: W2 320 ac.	NMR
213705	Warranty Deed	1/26/1932	2/23/1932	Anthony Malick, Andrew Malick, John Malick, Frank Malick and Ben Malick, heirs of Andrew Malick, dec'd	Anna Malick	T1N-R59W Sec. 11: W2 320 ac.	NMR
372779	Decree	#######	#######	In the Matter of the interests of Anna Malick, dec'd	Ben Malick, 1/4 Andrew Malick, 1/4 John Malick, 1/4 Frank Malick, 1/4	T1N-R59W Sec. 11: All	NMR
384939	Warranty Deed	1/7/1953	2/26/1953	Ben Malik, Frank Malik, Andrew Malick and John Malik	Fenner N. Cunningham and Amanta M. Cunnigham, JTWROS	T1N-R59W Sec. 11: All	Grantors res 1/2 NPRI
403981	Warranty Deed	11/5/1954	11/5/1954	Fenner N. Cunningham and Amanta M. Cunnigham	Fenner N. Cunningham and Amanta M. Cunnigham, h/w and William E. Ambrose and Eva L. Ambrose, h/w	T1N-R59W Sec. 11: All	NMR
550911	Warranty Deed	10/4/1968	#######	Fenner N. Cunningham and Amanta M. Cunnigham, h/w and William E. Ambrose and Eva L. Ambrose, h/w	James Hegarty	T1N-R59W Sec. 11: All	Res und 1/4 ogm
550965	Warranty Deed	#######	#######	James Hegarty	C. R. Jennings	T1N-R59W Sec. 11: All	Res und 1/2 ogm now owned (37.5% RTI)
551104	Warranty Deed	#######	#######	C. R. Jennings	Frances E. Dowd	T1N-R59W Sec. 11: All W.O.L.	NMR

566088	Sheriff's Deed	6/14/1971	6/14/1971	Sheriff of Morgan County	Henrietta Hegarty, executrix of the Estate of James Hegarty, dec'd	T1N-R59W Sec. 11: All	NMR
570274	Order	5/16/1963	1/20/1972	In the Matter of the Estate of James Hegarty, dec'd	Henrietta Hegerty, then upon death to sister and nieces	N/A	NMR
572933	Executrix Deed	6/1/1972	6/1/1972	Henrietta Hegarty, executrix of the Estate of James Hegarty, dec'd	John G. Higgins and Bernice Higgins	T1N-R59W Sec. 11: All	NMR
572935	Mineral Deed	6/1/1972	6/1/1972	John G. Higgins and Bernice Higgins	The Farmers State Bank of Fort Morgan, Trustee	T1N-R59W Sec. 11: All	Conveys und 1/8 ogm; res all executive rights
574019	Decree	7/20/1972	7/25/1972	In the Matter of the Estate of James Hegarty, dec'd	Farmers State Bank of Fort Morgan, Trustee (Martial Trust), 50% Farmers State Bank of Fort Morgan, Trustee, 50%	N/A	NMR
706108	Warranty Deed	2/7/1974	12/7/1987	John G. Higgins and Bernice Higgins	Ramey Ranch Co.	T1N-R59W Sec. 11: All W.O.L.	Res und 1/2 ogm now owned for 15 years (expired)
666431	Quit Claim Deed	9/20/1982	#######	Colorado National Bank of Denver	Ramey Ranch Co.	T1N-R59W Sec. 11: All W.O.L.	NMR
696647	Sheriff's Deed	4/13/1986	5/13/1986	Sheriff of Morgan County	Ramey Ranch Co.	T1N-R59W Sec. 11: All W.O.L.	NMR
716991	Warranty Deed	#######	#######	Ramey Ranch Co.	Carl D. Thomas and Marilynn J. Thomas, TC	T1N-R59W Sec. 11: All W.O.L.	NMR
725688	Special Warranty Deed	5/1/1991	6/27/1991	The Farmers State Bank of Fort Morgan, Trustee	John J. Hegarty, PR of the Estate of Henrietta Hegarty	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of und 1/8 ogm

725689	Personal Rep's Deed	5/1/1991	6/27/1991	John J. Hegarty, PR of the Estate of Henrietta Hegarty	Robert Drew, 1/18 Duane Drew, 1/18 Jeannete Wilcox, 1/18 Jim Drew, 1/54 Vickie Drew, 1/54 Rae Ann Drew, 1/54 Lloyd Drew, 1/18 Delbert Drew, 1/18 Donald Drew, 1/18 Vera Cox, 1/18 John J. Hegarty, 1/18 Rose Ellen Hudson, 1/18 Warren Drew, 1/18 Pam Roberts aka Pam Taylor, 1/36 David Roberts aka Michael David Roberts, 1/36 Pricilla Peters, 1/18 Patricia Regan, 1/18 Phyllis Pompili, 1/18 John Michael Drew, 1/18 Daniece Drew, 1/18 Evelyn Sagel, 1/18	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of und 1/8 ogm
732281	Mineral Deed	9/17/1992	9/18/1992	The Farmers State Bank of Fort Morgan, Trustee	Ellen McCauley, Margaret McCauley, Teresa Naughton and Annie Gallagher	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of und 1/8 ogm
757555	Personal Rep's Deed	8/21/1996	9/19/1996	Eva Jane Morton, PR of the Estate of William Ernest Ambrose, dec'd	William E. Ambrose	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
763059	Warranty Deed	1/6/1997	7/14/1997	Carl D. Thomas and Marilynn J. Thomas, TC	Thoma Properties, LLC	T1N-R59W Sec. 11: All W.O.L.	NMR
769691	Quit Claim Mineral Deed	2/13/1998	5/26/1998	Eva Jane Morton fka Eva Jane Ambrose	William E. Ambrose	T1N-R59W Sec. 11: All	Conveys all ogm
769692	Quit Claim Mineral Deed	2/13/1998	5/26/1998	Donald F. Cunningham	William E. Ambrose	T1N-R59W Sec. 11: All	Conveys all ogm
769693	Quit Claim Mineral Deed	2/10/1998	5/26/1998	Delbert C. Cunningham	William E. Ambrose	T1N-R59W Sec. 11: All	Conveys all ogm
783660	Quit Claim Deed	#######	3/13/2000	William E. Ambrose	Ambrose Ranches LLLP	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm

823370	Special Warranty Deed	#######	#######	Thoma Properties, LLC	Phyllis Webb	T1N-R59W Sec. 11: All W.O.L.	NMR
872175	Mineral Deed	#######	11/8/2011	Ambrose Ranches LLLP	Heritage Oil Company	T1N-R59W Sec. 11: All	Conveys 1/2 of ogm now owned
872536	Mineral Deed	#######	#######	Ambrose Ranches LLLP	Triple T Investments, LLC	T1N-R59W Sec. 11: All	Conveys all ogm
873842	Affidavit of Heirship		2/7/2012	Renee Gibbs, as to Rose Ellen Hudson, dec'd and Cyndi Cooper, dec'd	Carol Easter Connie Evans Cyndi Cooper - Renee Gibbs Gary Hudson Gregg Hudson	N/A	NMR
873843	Affidavit of Heirship		2/7/2012	Brad Cooper, as to Rose Ellen Hudson, dec'd and Cyndi Cooper, dec'd	Carol Easter Connie Evans Cyndi Cooper - Brad Cooper Gary Hudson Gregg Hudson	N/A	NMR
873905	Affidavit of Heirship		2/9/2012	Elisa Drew, as to Vickie Drew, dec'd	Elisa Drew Phillip Brian Drew	N/A	
874730	Affidavit of Heirship		3/22/2012	As to Lloyd Eugene Drew, dec'd	Alice Eileen Drew, wife Curtis Drew, son	N/A	NMR
874729	Affidavit of Heirship		3/22/2012	As to Alice Eileen Drew, dec'd	Curtis Drew, son	N/A	NMR
892517	Personal Rep's Deed	3/20/2015	3/24/2015	Susan M. Hergenreter and Kathleen L. Lorenzini, Co-PR's of the Estate of Vera Marie Cox aka Vera M. Cox, dec'd	Susan M. Hergenreter, Ronald E. Cox, Kathleen L. Lorenzini and Colleen K. Gilliland	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
902801	Personal Rep's Deed	#######	12/1/2016	Crisanne Orgaard, PR of the Estate of Duane Edward Drew, aka Duane E. Drew, dec'd	Adeline Edith Drew	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of ogm now owned
902802	Personal Rep's Deed	#######	12/1/2016	Crisanne Orgaard, PR of the Estate of Duane Edward Drew, aka Duane E. Drew, dec'd	Crisanne Orgaard, Kay Renee Bear, John Edward Drew, TC	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of ogm now owned
903273	Quit Claim Deed	#######	#######	Adeline Edith Drew	Crisanne Orgaard, Kay Renee Bear, John Edward Drew, TC	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
918480	Quit Claim Deed	5/17/2019	5/21/2019	Phyllis Webb	The Phyllis Ellen Webb Trust, dated May 17, 2019	T1N-R59W Sec. 11: All W.O.L.	NMR
925498	Letters Testamentary	4/30/2019	8/11/2020	In the Matter of the Estate of Evelyn Sagel aka Evelyn K. Sagel aka Evelyn Kimbal Sagel, dec'd	Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd	N/A	NMR

933707	Memo of Option Agreement for Lease	6/4/2021	6/23/2021	The Phyllis Ellen Webb Trust, dated May 17, 2019	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	12 months/36 month extension
939105	Trust Deed	2/28/2022	3/7/2022	Patricia Regan	Patricia Ann Regan as Trustee of Patricia A. Regan Living Trust	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
939854	Quit Claim Deed	2/15/2022	4/8/2022	The Phyllis Ellen Webb Trust, dated May 17, 2019	Billis Ranch Solar, LLC	T1N-R59W Sec. 11: All W.O.L.	NMR
940492	Amendment to Memo of Option Agreement for Lease	4/15/2022	5/9/2022	The Phyllis Ellen Webb Trust, dated May 17, 2019	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	NMR
951871	Amendment to Memo of Option Agreement for Lease	6/3/2024	6/26/2024	The Phyllis Ellen Webb Trust, dated May 17, 2019	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	Extended to 60 months
952572	Amendment and Restated Memo of Option Agreement for Lease	8/7/2024	8/9/2024	Billis Ranch Solar, LLC	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	12/36/60 months
953664	Memo of Option Agreement for Purchase of Real Property	#######	#######	Billis Ranch Solar, LLC	Tri-State Generation and Transmission Association, Inc.	T1N-R59W Sec. 11: All	NMR

62.5000%	640.000	400.00000
6.2500%	640.000	40.00000
6.2500%	640.000	40.00000
6.2500%	640.000	40.00000
6.2500%	640.000	40.00000
1.5625%	640.000	10.00000
1.5625%	640.000	10.00000
1.5625%	640.000	10.00000
1.5625%	640.000	10.00000
0.3472%	640.000	2.22222
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0.3472%	640.000	2.22222
0.1736%	640.000	1.11111
0.1736%	640.000	1.11111
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.0868%	640.000	0.55556
0.0868%	640.000	0.55556
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0.0868%	640.000	0.55556
0.0694%	640.000	0.44444
0.0694%	640.000	0.44444
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0.0694%	640.000	0.44444
0.0579%	640.000	0.37037
0.0579%	640.000	0.37037
0.0347%	640.000	0.22222
0.0347%	640.000	0.22222
		640.00000
100.0000%		

Billis Ranch Solar LLC	400.00000
Heritage Oil Co.	40.00000
Triple T Investments	40.00000
Estate of Fenner Cunningham	40.00000
Estate of Amanta Cunningham	40.00000
Ellen McCualey	10.00000
Margaret McCauley	10.00000
Teresa Naughton	10.00000
Annie Gallagher	10.00000
Robert Drew	2.22222
Jeannete Wilcox	2.22222
Curtis Drew	2.22222
Delbert Drew	2.22222
Donald Drew	2.22222
John J. Hegarty	2.22222
Warren Drew	2.22222
Pricilla Peters	2.22222
Patricia Regan Trust	2.22222
Phyllis Pompili	2.22222
John Michael Drew	2.22222
Daniece Drew	2.22222
Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd	2.22222
Pam Roberts aka Pam Taylor	1.11111
David Roberts aka	1.11111
Crisanne Orgaard	0.74074
Kay R Bear	0.74074
John E Drew	0.74074
Jim Drew aka James Drew	0.74074
Rae Ann Drew	0.74074
Susan Hergenreter	0.55556
Ronald Cox	0.55556
Kathleen Lorenzini	0.55556
Colleen Gilliland	0.55556
Carol Easter	0.44444
Connie Evans	0.44444
Gary Hudson	0.44444
Gregg Hudson	0.44444
Elisa Drew	0.37037
Phillip Brian Drew	0.37037
Renee Gibbs	0.22222
Brad Cooper	0.22222
	640.00000

APPENDIX E REQUEST FOR WAIVER

TRI-STATE

June 12, 2025

Nicole Hay, Director
Morgan County Planning and Zoning Department
231 Ensign Street, P.O. Box 596, Fort Morgan, Colorado 80701

Subject: Tri-State Generation Morgan County 1041 Regulations – ("1041 Regulations") – Permit Application – Major Transmission Line Facility ("Project") - Request Waiver

Dear Ms. Hay:

Tri-State Generation and Transmission Association, Inc. (Tri-State) is requesting a waiver of the property title information requirements for the above mentioned Project, as set forth in Chapter 3, Article 3, Subsection 3-305(2)(b)(iii) in the 1041 Regulations (1041 Regulations), based on authority vested in you by the regulations to grant waivers to specific submittal requirements pursuant to Section 3-305(5), and as further provided in Subsection 2-204.

The property title information required as part of the Permit Application pursuant to the regulatory provision cited above is not of major relevance to the decision on the application, and it is unreasonably burdensome for the Applicant to provide in light of the nature and scope of the Project. The required property title information, as set forth in the 1041 Regulations, includes, but is not limited to, the following:

"*The names and addresses of persons or entities with an interest in any real property proposed to be physically disturbed or crossed by the activity or development which is the subject of the application, excluding mineral interests but including those holding mortgages, judgments, liens, easements, contract rights, rights of way, reservations, exceptions, or other encumbrances …*"

The nature and scope of the Project include a major electrical transmission line facility within a twenty-four (24) mile utility corridor that crosses Morgan County. Due to the significant length and varied character of the proposed Project corridor, the practical difficulties, including time and expense, of assembling and ensuring the accuracy of the required information are daunting and not readily achievable. Tri-State respectfully requests that it be granted a waiver to the property title information provision set forth in Chapter 3, Article 3, Subsection 3-305(2)(b)(iii). As a condition of approval, Tri-State will provide proof that the right-of-way has been fully acquired before the start of construction.

For more information about the Project, please contact me by telephone at [redacted] or by email at [redacted] or contact our environmental consultant, Rita Ruderman with POWER Engineers Inc., by telephone at [redacted] or email at [redacted]

Sincerely,

Izzy Beshouri

Transmission Siting, Permitting, & Environmental Planner

P.O. BOX 33695
DENVER, CO 80233-0695
303-452-6111
WWW.TRISTATE.COOP

A Touchstone Energy® Cooperative

APPENDIX F BEST MANAGEMENT PRACTICES AND ENVIRONMENTAL PROTECTION MEASURES

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.
ENVIRONMENTAL PROTECTION MEASURES FOR
CONSTRUCTION PROJECTS

TOPIC - No.	STANDARD ENVIRONMENTAL PROTECTION MEASURES
General	
G-1	The contractor shall comply with all federal, state and local environmental laws, orders and regulations. Prior to construction, all supervisory construction personnel will be instructed on the protection of cultural and ecological resources.
G-2	Prior to construction, Tri-State shall discuss with the Contractor areas of environmental sensitivity within the Project area, and, in particular, those areas where a monitor must be present during construction.
Access Routes	
AR-1	No construction activities will be performed during periods when the soil is too wet to adequately support equipment and vehicles. If equipment or vehicles create ruts in excess of 4-6 inches deep for a distance of 10 feet on native surface roads, the soil shall be deemed too wet to adequately support construction equipment. If equipment or vehicles create ruts in excess of 1 inch deep on graveled roads, the roads shall be deemed to wet to support construction equipment.
AR-2	Only the minimum amount of soils and vegetation necessary for the maintenance of the access routes and the safe and reliable operation of transmission line will be disturbed. If excavation is necessary, topsoil will be conserved and reused as cover on disturbed areas to facilitate re-growth of vegetation. Vegetation will be cleared from those areas necessary to obtain adequate working width and turning radius space for maintenance equipment and allow for the safe operation of the transmission line.
Aesthetics	
A-1	The contractor shall exercise care to preserve the natural landscape and shall conduct construction operations so as to prevent any unnecessary destruction, scarring or defacing of the natural surroundings in the vicinity of the work. Except where clearing is required for permanent works, approved temporary or permanent construction roads, staging areas or excavation operations, vegetation shall be preserved and shall be protected from damage by the contractor's construction operations and equipment.
A-2	The contractor shall minimize scarring, defacing, damage or destruction of the natural landscape resulting from construction operations and any unnecessary or unauthorized shall be repaired by the contractor to the satisfaction of Tri-State.
A-3	All construction materials, waste and debris shall be removed from the project area in a timely manner. Burning or burying of waste materials on the right-of-way or at the construction site will not be allowed. All materials resulting from the contractor's clearing operations shall be removed from the right-of-way.
A-4	Structures will be located and designed to conform with the terrain and with minimal visual impacts whenever possible. Leveling and benching of the structure sites will be done to the minimum necessary to allow structure assembly and erection.
Air Quality	
AQ-1	The contractor shall utilize practicable methods and devices as are reasonably available to control, prevent and otherwise minimize atmospheric emissions or discharges of air contaminants.
AQ-2	Possible construction related dust disturbance shall be controlled by the periodic application of water to all disturbed areas along the right-of-way and access roads.
AQ-3	Vehicles and equipment showing excessive emission of exhaust gases due to poor engine adjustments or other inefficient operating conditions shall not be operated until corrective adjustments or repairs are made.
AQ-4	Post seeding mulch will be utilized during reclamation activities to help reduce wind erosion and blowing dust. The mulch/stabilization will be performed as soon as possible after completion of project activities to minimize potential fugitive dust generation as re-vegetation occurs.
Biological Resources	
BR-1	Vegetation shall be preserved and protected from damage by construction operations to the maximum extent practicable. Removal of brush and trees will be limited to those necessary for access and construction There will be no clear cutting within the right-of-way unless specifically

	approved in writing by Tri-State.
BR-2	Disturbed areas where vegetation has been removed by construction activities to the extent that the potential for soil erosion is increased to a detrimental level will be subject to seedbed preparation techniques, reseeded to an approved seed mixture, and mulched if necessary during a recognized planting season. Mulching shall be applied only to those areas where potential erosion would prohibit vegetation establishment and growth.
BR-3	The contractor shall not cross any wetland and riparian areas (of or relating to, or located on, the banks of a river or stream), unless at designated locations designated by Tri-State
BR-4	On completion of the work, all work areas, except any permanent access roads/trails, shall be regraded, as required, so that all surfaces drain naturally, blend with the natural terrain, and are left in a condition that will facilitate natural revegetation, provide for proper drainage and prevent erosion.
BR-5	All disturbed areas, except the access route running surfaces, will be reseeded with seed mixes as specified by Tri-State.
BR-6	All construction materials and debris shall be removed from the project area.
BR-7	In order to preclude avian electrocutions and minimize collision risk, Tri-State will incorporate Avian Protection Plan (APP) standards developed by the Avian Power Line Interaction Committee (APLIC December 2006) and USFWS to protect birds on power lines, APP Guidelines published April 2005 (APLIC and USFWS 2005), and NESC which specifies electric conductor clearances.
Cultural Resources	
CR-1	Prior to construction, all supervisory construction personnel will be instructed on the protection of cultural resources with reference to relevant laws and penalties, and the need to cease work in the location if cultural resource items are discovered.
CR-2	Should any previously unknown historic/prehistoric sites or artifacts be encountered during construction, all land altering activities at that location will be immediately suspended and the discovery left intact until such time that Tri-State is notified and appropriate measures taken to assure compliance the National Historic Preservation Act and enabling legislation.
Fire Prevention/Control	
FP-1	Construction vehicles shall be equipped with government approved spark arresters.
FP-2	The contractor shall maintain in all construction vehicles a current list of local emergency response providers and methods of contact/communication.
Hazardous Materials	
HM-1	Tri-State shall comply with all applicable federal laws and regulations existing or hereafter enacted or promulgated regarding toxic substances or hazardous materials. In any event, Tri-State shall comply with the Toxic Substance Control Act of 1976, as amended (15 U.S.C. 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on Tri-State property (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, section 102b. A copy of any report required or requested by any federal agency or state government as a result of a reportable release or spill of any toxic substance shall be furnished to the authorized officer concurrent with the filing of the reports to the involved federal agency or state government.
HM-2	All fuel and fluid spills within this area will be handled in accordance with appropriate state and federal spill reporting and response requirements. Contractor shall notify Tri-State of any spills so appropriate notifications can be made to regulatory authorities.
HM-3	Any waste generated as a result of the proposed action will be properly disposed in a permitted facility. Solid waste generated during construction and periodic maintenance periods will be minimal. All hazardous materials will be handled in accordance with applicable local, state and federal hazardous material statues and regulations.
Land Use	
LU-1	All activities associated with the construction, operation and maintenance of the transmission line, and substation will take place within the authorized limits. Additional access routes or cross-country travel will not be allowed outside of the authorized routes prior to review and approval by Tri-State.
LU-2	The contractor shall maintain all fences, brace panels and gates during the construction period. Any fence, brace panel or gate damaged during construction will be repaired immediately by the contractor to appropriate landowner or agency standards as determined by the authorized

	officer.
LU-3	The contractor shall eliminate, at the earliest opportunity, all construction ruts that are detrimental to agricultural operations and/or hazardous to movement of vehicles and equipment. Such ruts shall be leveled, filled and graded, or otherwise eliminated in an approved manner. Damage to ditches, tile drains, culverts, terraces, local roads and other similar land use features shall be corrected as necessary by the contractor. The land and facilities shall be restored as nearly as practicable to their original condition.
LU-4	Structure foundation holes will not be left open overnight and will be covered. Covers will be secured in place and will be strong enough to prevent livestock, wildlife, or the public from falling through and into a hole.
Noise	
N-1	Construction vehicles and equipment shall be maintained in proper operating condition and shall be equipped with manufacturers' standard noise control devices or better (e.g. mufflers, engine enclosures).
Noxious Weeds	
NW-1	To minimize introduction of noxious weed seed sources to the project area the following measures will be performed: All heavy equipment utilized during construction will be washed prior to departure from the equipment storage facility. Washing of equipment prior to transport from one work site to another is not recommended, as on-site washing of equipment increases the chance of weed seed dispersal by drainage of water off of the site, across an area greater than the size of the work site. Equipment will have accumulations of mud 'knocked off' instead. This method promotes containment of weed seeds on the work site; all seed mixes and mulch used for reclamation activities will be certified weed-free.
Soils and Geology	
S-1	The contractor shall mitigate soils compacted by movement of construction vehicles and equipment, by 1.) loosened and leveled harrowing or disking to approximate pre-construction contours and 2.) reseeded with certified weed-free grasses and mulched (except in cultivated fields). The specific seed mix(s) and rate(s) of application will be determined by Tri-State .
S-2	Movement of construction vehicles and equipment shall be limited to the property and approved access routes.
S-3	Excavated material not used in the backfilling of poles shall be spread around each pole, evenly spread on the access routes in the immediate vicinity of the pole structure or transported off-site to a Tri-State approved disposal location. Disturbed areas shall then be regraded to approximate pre-construction contours and reseeded as specified in S-1.*
S-4	Topsoil will be removed, stockpiled, and re-spread at temporarily disturbed areas not needed for maintenance access.*
Traffic	
T-1	The contractor shall make all necessary provisions for conformance with federal, state and local traffic safety standards and shall conduct construction operations so as to offer the least possible obstruction and inconvenience to public traffic.
Water Quality and Erosion	
WQ-1	Construction activities shall be performed by methods that prevent entrance or accidental spillage of solid matter, contaminants debris, and other objectionable pollutants and wastes into flowing streams or dry water courses, lakes and underground water sources. Such pollutants and wastes include, but are not restricted to, refuse, garbage, cement, concrete, sanitary waste, industrial waste, radioactive substances, oil and other petroleum products, aggregate processing tailings, mineral salts and thermal pollution.
WQ-2	Dewatering work for structure foundations or earthwork operations adjacent to, or encroaching on, streams or water courses shall not be performed without prior approval by Tri-State and appropriate state agencies. Water and eroded materials will be prevented from entering the streams or watercourses by constructing intercepting ditches, bypass channels, barriers, settling ponds or other approved methods.
WQ-3	Borrow pits shall be so excavated that water will not collect and stand therein. Before being abandoned, the sides of borrow pits shall be brought to stable slopes, with slope intersections shaped to carry the natural contour of adjacent, undisturbed terrain into the pit or borrow area, giving a natural appearance. Waste piles shall be shaped to provide a natural appearance.
WQ-4	Excavated material or other construction materials shall not be stockpiled or deposited near or on stream banks, lake shorelines or other water course perimeters where they can be washed away by high water or storm runoff or can in any way encroach upon the actual water source itself.

WQ-5	Waste waters from construction operations shall not enter streams, water courses or other surface waters without use of such turbidity control methods as settling ponds, gravel-filter entrapment dikes, approved flocculating processes that are not harmful to fish, recirculation systems for washing of aggregates or other approved methods. Any such waste waters discharged into surface waters shall be essentially free of settleable material. Settleable material is defined as that material that will settle from the water by gravity during a 1-hour quiescent period.
WQ-6	A Storm Water Management Plan shall be developed if required, to address all construction, reconstruction activities. The plan shall conform will all EPA and Best Management Practices (BMP) requirements.

APPENDIX G BADGER CREEK SWITCHING STATION DRAINAGE REPORT

TRI-STATE GENERATION & TRANSMISSION, INC.

BADGER CREEK SWITCHING STATION
DRAINAGE REPORT

November 11, 2025

Prepared by:

DEL-MONT CONSULTANTS, INC.
ENGINEERING ▼ SURVEYING
125 Colorado Ave. ▼ Montrose, CO 81401 ▼ (970) 249-2251 ▼ (970) 249-2342 FAX
www.del-mont.com ▼ service@del-mont.com

TRI-STATE GENERATION & TRANSMISSION, INC.

BADGER CREEK SWITCHING STATION
DRAINAGE REPORT

ENGINEER'S CERTIFICATION

I hereby certify that this drainage report for the drainage design of the Badger Creek Switchyard was prepared by me (or under my direct supervision) in accordance with the common engineering practices for the owners thereof. I understand that El Paso County does not and will not assume liability for drainage facilities designed by others, including the designs presented in this report.

David Schieldt
Registered Professional Engineer
State of Colorado No. 47195

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1.0 General Location and Description

Tri-State Generation and Transmission (TSGT) in coordination with Del-Mont Consultants, Inc. (DMC) is in the process of designing a new switching station yard. The scope of work includes the construction of the switching station yard & retaining walls, driveway, detention pond and swales, installation of new perimeter fence, and the addition of high voltage electrical equipment and facilities. The purpose of this report is to present the findings from the hydrologic and hydraulic analyses that were performed on the existing property as well as present the results from a detailed analysis performed on the proposed improvements to the property.

1.1 Site Location

The proposed tap is located in the north ½ of Section 11, Township 1 North, Range 59 West, 6th Principal Meridian in Morgan County, Colorado. The switching station site is accessed from County Road F.

1.2 Site Description

The site naturally drains to the northwest and is currently covered in various grasses. There are currently no features on the site to provide water quality or quantity treatment for discharge from the site. Site layout details will be discussed in more detail in **Section 2**.

There are currently no developments on or near the site. No wetlands are present on the site and the site is not located within a floodplain.

2.0 Drainage Basins and Sub-Basins

The property functions overall as one large basin, flowing to the northwest into a roadside ditch on County Road F. Proposed conditions produce several smaller sub-basins and will be discussed in detail in the following sections.

2.1 Existing Drainage Sub-Basins

The existing site was analyzed as one basin. A map illustrating the delineation of the existing property can be found in **Appendix A**. There are no developments on the site or the neighboring property. **Table 2-1** presents the existing basin and its corresponding acreage.

Table 2-1: Existing Basin Acreages

Sub-Basin	Total Area (Acres)
Existing	40.05

2.2 Proposed Drainage Sub-Basins

The proposed conditions will produce several different sub-basins. The proposed site is divided into three different sub-basins; Yard Areas 1-4, Pond, Proposed West, and Proposed East. A map illustrating the delineation of the sub-basins can be found in **Appendix A**. The proposed yard and pond areas have been evaluated as on composite Yard basin. The Proposed East and Proposed West areas contain swales that will route any run-on around the switching station site, returning to historical discharge patterns. **Table 2-2** presents the proposed sub-basins and their corresponding acreages.

Table 2-2: Proposed Sub-Basin Acreages

Sub-Basin	Total Area (Acres)
Yard 1	1.58
Yard 2	1.62
Yard 3	1.17
Yard 4	0.40
Pond	0.69
Proposed West	24.86
Proposed East	9.74

3.0 Drainage Design Criteria

3.1 Methodology

The hydrologic/hydraulic analysis of the site was performed using the Autodesk Storm and Sanitary analysis utilizing the SWMM engine platform model for a 25-year, 24-hour rainfall event of 3.38 total inches and a 100-year, 24-hour rainfall event of 4.49 total inches. The Curve Number method of determining rainfall losses due to infiltration was used. Runoff for all site conditions was computed for both the 25-year and 100-year, 24-hour storms. Rainfall depths were obtained for the region from NOAA Atlas 14, Volume 8, Version 2 and rainfall distribution curves were developed using a 24-hour rainfall distribution. Modeling results are presented in **Appendix D**.

The Mile High Flood District *Detention Basin Design Workbook* was utilized to determine the required water quality capture volume (WQCV) and to design the outlet structure. The spreadsheets/worksheets can be found in **Appendix C** and are discussed in more detail in **Section 4.0**.

Soil data was obtained from a USDA Soils Report and gives a hydrologic soil group A for the site. The soils report is included in **Appendix B**.

The described methods/tools used in the analysis, are in accordance with common engineering practices and guidelines as well as Morgan County requirements.

3.2 Land Cover Hydrologic Properties

Curve numbers and corresponding Manning's N values, for hydrologic soil group A, were assigned to the various land cover types found on the project, both existing and proposed, and are presented in **Table 3-1**.

Table 3-1: Land Cover Hydrologic Properties

Land Cover Type	Curve Number	Manning's N
Pasture, Grassland, or Range – Fair (Native)	49	0.15
Open Graded Aggregate Topping Over Compacted Base (Yard)	76	0.024
Compacted Base Material (Driveways)	76	0.024
Pavement/Concrete	98	0.015

3.3 Weighted Design Values

Utilizing the land cover hydrologic properties presented above, a weighted curve number and Manning's N value was calculated for each of the sub-basins, presented in **Section 2.0** to be used for analysis. **Table 3-2** presents the weighted design values for existing conditions and **Table 3-3** presents the weighted design values for proposed conditions. Detailed calculations can be found in **Appendix C**.

Table 3-2: Existing Sub-Basin Weighted Design Values

Sub-Basin	Total Area (Acres)	Weighted Manning's N	Weighted Curve Number
Existing	40.05	0.150	49

Table 3-3: Proposed Sub-Basin Weighted Design Values

Sub-Basin	Total Area (Acres)	Weighted Manning's N	Weighted Curve Number
Yard Area	5.46	0.04	79.02
Proposed West	24.86	0.15	49.23
Proposed East	9.74	0.15	49

4.0 Drainage Facility Design

4.1 Historical Drainage

Per Morgan County Zoning Regulations 3-705, the 100-year historical discharge value for the site shall be used to determine the allowable discharge from the site for the proposed conditions. Values presented in **Table 3-2** were used in the model to calculate a historical discharge rate for the existing property. **Table 4-1** presents the discharge rate for the existing property for both the 25-year and 100-year 24-hour storm events although the design is based on the 100-year discharge values.

Table 4-1: Existing Property Discharge Values

Sub-Basin	25-Year Discharge (CFS)	100-Year Discharge (CFS)
Existing	9.18	23.57

4.2 Proposed Drainage

Values presented in **Table 3-3** were utilized in the model to calculate the runoff for the proposed conditions. The Mile High Flood District *Detention Basin Design Workbook* was utilized to determine the WQCV in conjunction with the model to size the detention pond. Once the pond was sized, the Mile High Flood District *Detention Basin Design Workbook* was utilized to estimate required orifice sizes in the outlet structure to provide water quality treatment. The model was then used to verify all design elements of the pond and the outlet structure to ensure the pond not only retained the correct WQCV but to also discharge at or less than the required 100-year historic discharge rate presented in **Table 4-1** as well as drain the pond in less than the allowable time per State Requirements**.** The spreadsheet showing the detailed calculations can be found in **Appendix C.** The design of the outlet structure is detailed in the grading drawings.

The proposed detention pond was designed to provide water quality treatment as well as detain the 100-year storm event while maintaining the required 1-foot of freeboard. The proposed detention pond stage-storage curve is presented in **Table 4-2**.

Table 4-2: Detention Pond Stage-Storage Table

Elevation	Surface Area (Sq. Ft.)
4800.2	10
4801	4,861
4802	14,506
4803	21,200
4804	23,594
4805	26,078

The model of the proposed site conditions was utilized to calculate discharge flow rates from the outlet structure in order to size the pond discharge culvert. **Table 4-3** presents the

hydraulic capacity of the culvert and the required capacity to discharge flow from the outlet structure for the 100-year event. Detailed design of the pipe is provided in **Appendix A**.

Table 4-3: Outlet Pipe Hydraulic Capacity (100-year event)

Drainage Feature	Pipe Diameter (in)	Total Capacity (cfs)	Required Flow Capacity (cfs)	Remaining Capacity (cfs)
Pond Outlet	12	1.98	1.78	0.39

Table 4-4 presents the discharge rates for the proposed sub-basins for both the 25-year and 100-year 24-hour storm events prior to detention. This discharge value represents the flow rate that the pond is receiving. The discharge from the pond and other basins (total discharge from site) is summarized in **Table 5-1.**

Table 4-4: Proposed Sub-Basin Discharge Values (Pre-Detention)

Sub-Basin	25-Year Discharge (CFS)	100-Year Discharge (CFS)
Yard Area	17.55	21.91
Proposed West	2.71	4.36
Proposed East	1.24	2.48

Table 4-5 presents the hydraulic capacity of the subdrain system. The Yard basin was broken into four smaller basins to evaluate the capacity of the subdrain piping system. A schematic of the drainage model showing basins and piping can be found in **Appendix A**.

Table 4-5: Proposed Subdrain Capacity (25-year event)

Sub-Basin	25-Year Discharge (CFS)	Associated Subdrain Pipe and Size	Subdrain Capacity	Required Flow Capacity
Yard 1	4.99	SD 1 (24”)	17.33	14.54
Yard 2	5.12	SD 2 (24”)	17.33	9.70
Yard 3	3.58	SD 3 (15”)	4.95	4.73
Yard 4	1.28	SD 4 (12”)	3.11	1.24

Utilizing the flow rates presented above, the model was utilized to analyze the flow path of water through the piping and pond system. With the installation of the outlet structure, the pond was designed to pass both the 25-year and 100-year events, treat the required WQCV, and slowly release the water in the required length of time after the end of an event set forth by the State. The entire switching station drains to the pond and the discharge rate leaving the pond is presented in **Table 5-1.**

5.0 Conclusions

5.1 Drainage Concept

The drainage design has been prepared using sound engineering judgement and practices and will provide an effective means of controlling runoff on the project site as well as protect the site from damage. The design has been completed according to common engineering practices and will result in no downstream impacts to any people or structures. Historic flow paths, discharge rates, and water quality have been maintained or improved.

5.2 Compliance with Morgan County Regulations

Per common practices, the historical discharge rate from the 100-year – 24-hour storm shall be utilized to determine the allowable discharge rate for the proposed improvements. To demonstrate compliance with this requirement, both the existing and proposed conditions were combined into one overall sub-basin. **Table 5-1** presents the overall discharge rates for the overall basin as well as the individual basins.

Table 5-1: Overall Sub-Basin Discharge Values (Post Detention)

Basin	25-Year Discharge (CFS)		100-Year Discharge (CFS)	
	Existing	Proposed	Existing	Proposed
Yard Area (Pond Outlet)	9.18	0.36	23.57	1.78
West		2.71		4.36
East		1.24		2.48
Total	9.18	4.12	23.57	6.98

The pond outlet structure was sized according to common practices so that the proposed condition 100-year discharge rate is less than the required discharge rate from the 100-year, 24-hour storm event, resulting in compliance with Morgan County Zoning Regulations 3-705.

The detention pond was also sized according to MHFD requirements to treat the WQCV, detain the 100-year event, maintain 1 foot of freeboard, and maintain historical discharge patterns resulting in no downstream impacts.

Inspections of the pond and outlet structure will be conducted by the owner on an annual basis as well as after large storm events. If deficiencies are identified or if maintenance is required, maintenance of the outlet structure will be performed by the owner of the property in an effort to return the structure to its original level of functionality. Maintenance may involve cleaning of sediment and debris from the facility, maintaining vegetation growth around the structure, and performing any additional maintenance required.

6.0 References

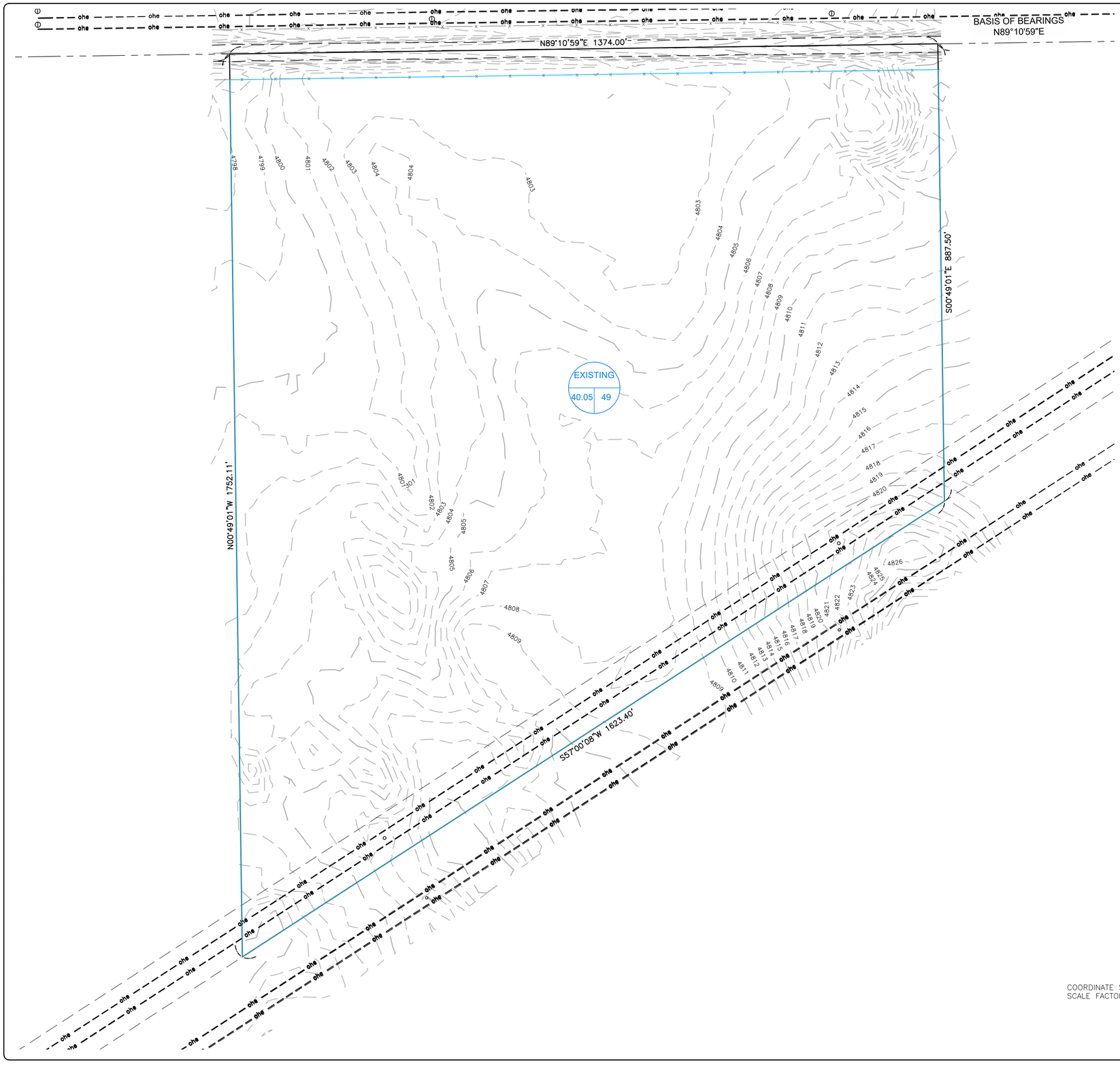
NOAA Atlas 14, Volume 8, Precipitation-Frequency Atlas of the United States. U.S. Department of Commerce, 2013.

United States Department of Agriculture Natural Resources Conservation Service. Web Soil Survey

Mile High Flood District and Flood Control District. *Detention Basin Design Workbook,* Version 4.04, February 2021.

Urban Drainage and Flood Control District. *Urban Storm Drainage Criteria Manual,* Volume *1-3*, June 2001.

Appendix A
Site Maps & Design Drawings



LEGEND

- EXISTING INDEX CONTOUR (5800)
- EXISTING INTERMEDIATE CONTOUR (5796)
- EXISTING DRAINAGE FLOWLINE
- CRITICAL FLOWPATH
- FLOW ARROW
- DRAINAGE BASIN

A = BASIN
B = AREA IN ACRES
C = WEIGHTED RUNOFF COEFFICIENT

Summary Runoff Tables			
Existing			
Design Point	Contributing Area	Runoff Peak 25-year Event	Runoff Peak 100-year Event
	(acres)	(cfs)	(cfs)
1	40.05	9.18	23.57

COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE
SCALE FACTOR: 1.0002648129

N

1" = 100'

Scale in feet
100' 0 100' 200'

NO	DATE	REVISIONS	BY

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DRAWN BY: TMC
SCALE: AS NOTED
FILE NAME: 24211C_BASE.DWG
CHECKED BY: DWS
DATE ISSUED: 11/11/25

TRI-STATE GENERATION & TRANSMISSION
BADGER CREEK SUBSTATION
MORGAN COUNTY, CO

EXISTING DRANAGE BASINS

DMC JOB NO.: 24211

SHEET NO.: A-1
OF 1 SHEETS

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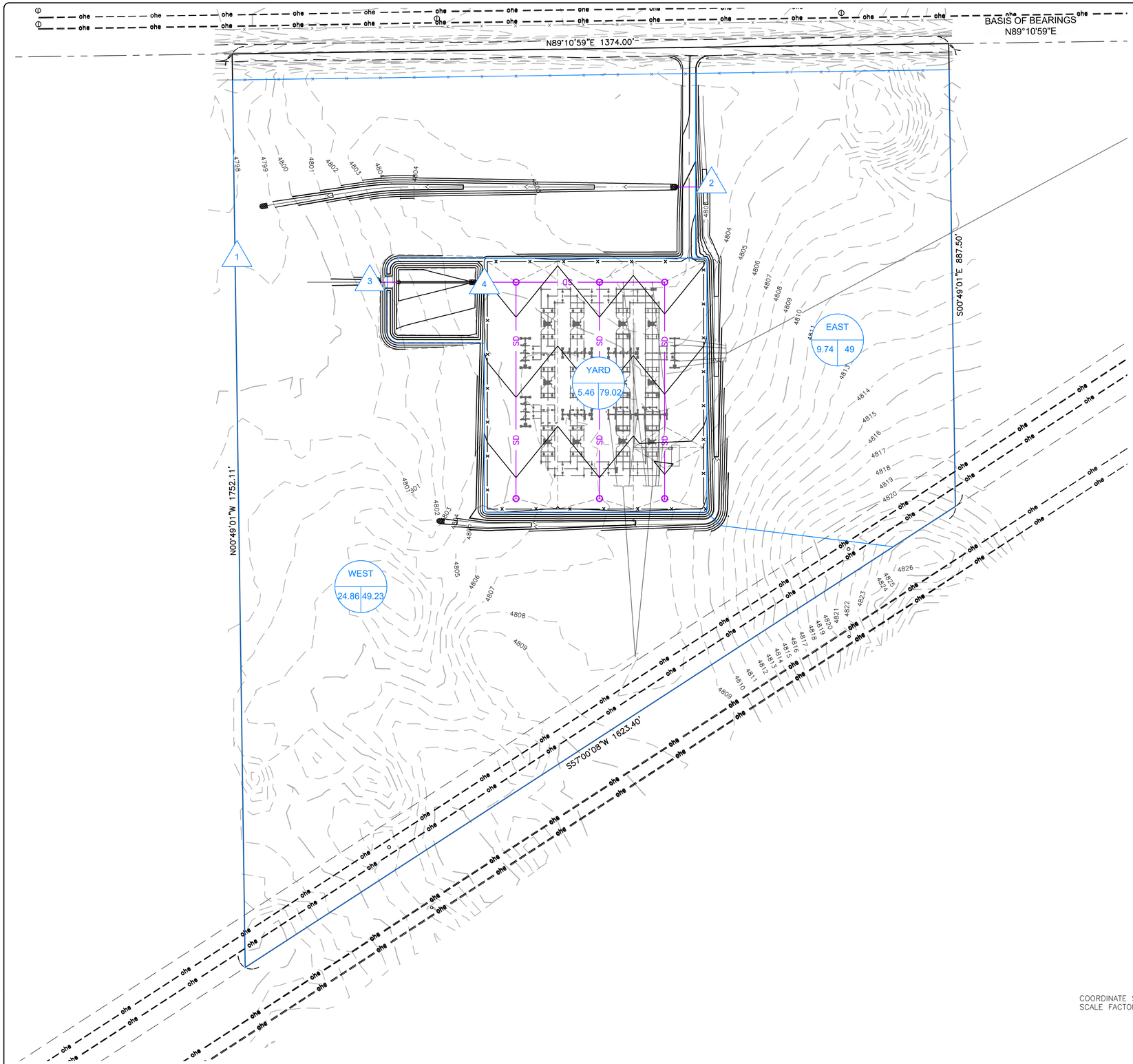

LEGEND

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- EXISTING INTERMEDIATE CONTOUR (5796)
- PROPOSED INDEX CONTOUR (5800)
- PROPOSED INTERMEDIATE CONTOUR (5796)
- PROPOSED DRAINAGE FLOWLINE
- FLOW ARROW
- PROPOSED DRAINAGE BASIN

A = BASIN
B = AREA IN ACRES
C = WEIGHTED RUNOFF COEFFICIENT

D = DESIGN POINT DESIGNATION

Summary Runoff Tables

Existing

Design Point	Contributing Area	Runoff Peak 25-year Event	Runoff Peak 100-year Event
	(acres)	(cfs)	(cfs)
1	40.05	9.18	23.57

Summary Runoff Tables

Proposed

Design Point	Contributing Area	Runoff Peak 25-year Event	Runoff Peak 100-year Event
	(acres)	(cfs)	(cfs)
1	40.05	4.12	698
2	9.74	1.24	2.48
3	5.46	0.36	1.78
4	5.46	17.55	21.91

COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE
SCALE FACTOR: 1.0002648129

N

1" = 100'

Scale in feet
100' 0 100' 200'

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TRI-STATE GENERATION & TRANSMISSION
BADGER CREEK SUBSTATION
MORGAN COUNTY, CO

PROPOSED DRAINAGE BASINS

DMC JOB NO.: 24211

SHEET NO.: A-2

OF 1 SHEETS

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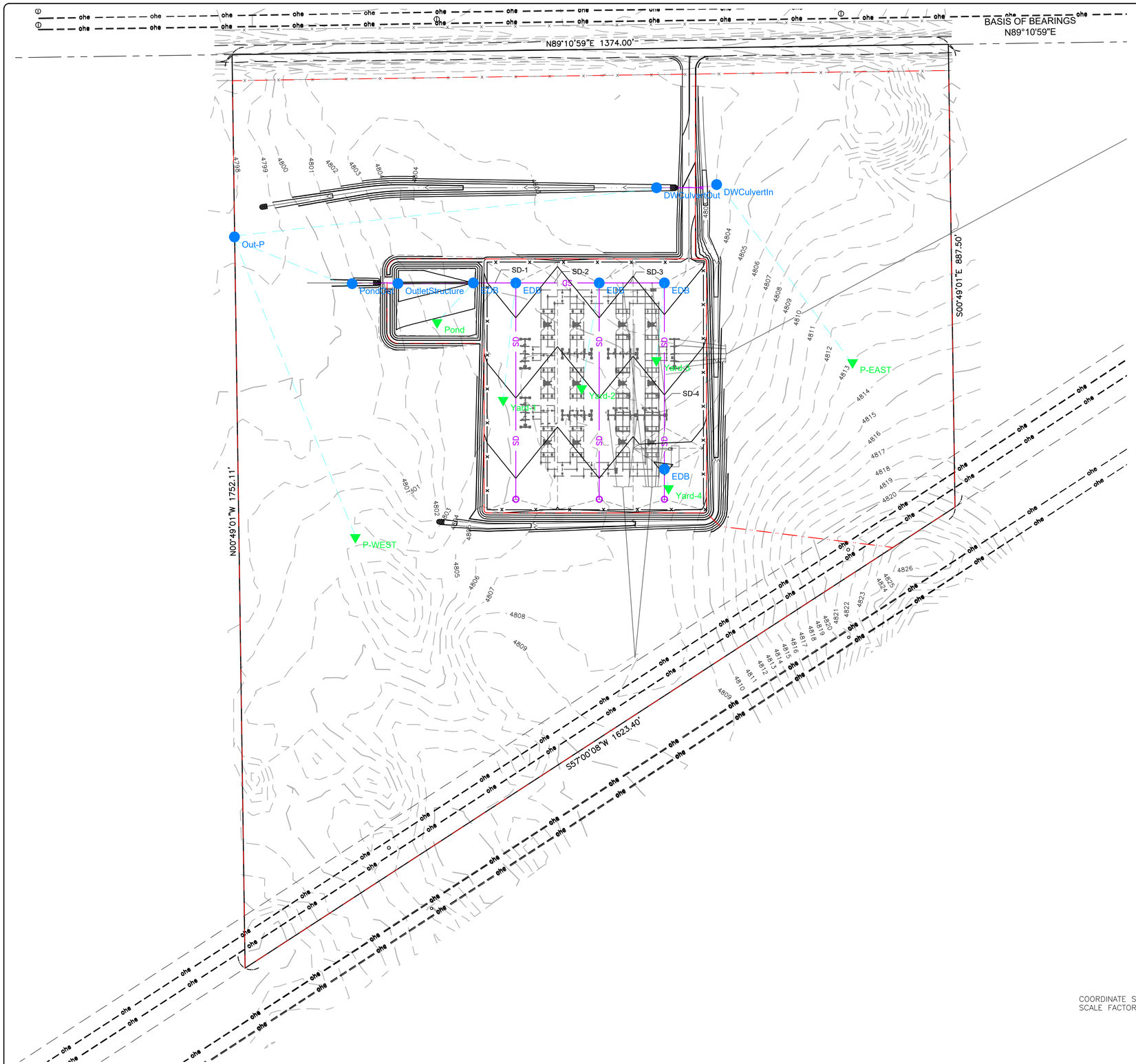

LEGEND

- 5800 / 5796 — PROPOSED INDEX CONTOUR / PROPOSED INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE FLOWLINE
- DRAINAGE LINK
- DIRECT LINK
- DRAINAGE BASIN
- Pond — DRAINAGE NODE
- Yard — SUB-BASIN

NOTE: THIS DRAWING IS A SCHEMATIC REPRESENTATION OF THE AUTODESK STORM AND SANITARY ANALYSIS MODEL. FOR ALL DESIGN SPECIFIC INFORMATION SEE CIVIL PLANS.

COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE
SCALE FACTOR: 1.0002648129

N

1" = 100'

Scale in feet
100' 0 100' 200'

NO	DATE	REVISIONS	BY

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CHECKED BY: DWS
DATE ISSUED: 11/11/25

TRI-STATE GENERATION & TRANSMISSION
BADGER CREEK SUBSTATION
MORGAN COUNTY, CO

DRAINAGE MODEL SCHEMATIC

DMC JOB NO.: 24211

SHEET NO.: A-3
OF 1 SHEETS

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Appendix B
NRCS Soils Report

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Morgan County, Colorado

Badger Creek Substation

April 21, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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VcD—Valent sand, 3 to 9 percent slopes.....14
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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

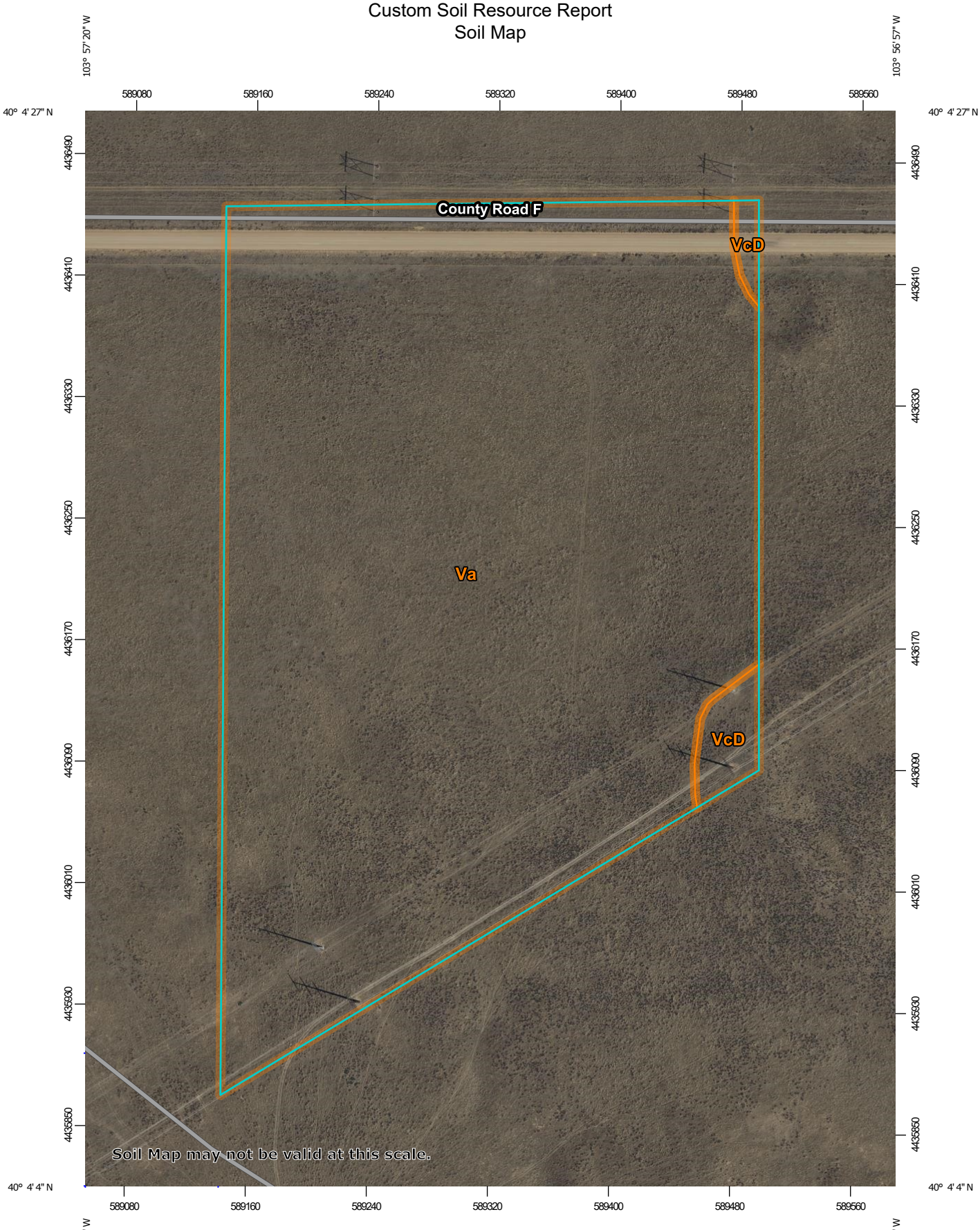
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:3,450 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Morgan County, Colorado
Survey Area Data: Version 25, Aug 29, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2022—Jun 15, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Va	Valent sand, 0 to 3 percent slopes	41.2	97.9%
VcD	Valent sand, 3 to 9 percent slopes	0.9	2.1%
Totals for Area of Interest		**42.1**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Morgan County, Colorado

Va—Valent sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tczd
Elevation: 3,000 to 5,210 feet
Mean annual precipitation: 13 to 20 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 166 days
Farmland classification: Not prime farmland

Map Unit Composition

Valent and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Valent

Setting

Landform: Interdunes
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Noncalcareous eolian sands

Typical profile

A - 0 to 5 inches: sand
AC - 5 to 12 inches: sand
C1 - 12 to 30 inches: sand
C2 - 30 to 80 inches: sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 39.96 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline (0.1 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R067BY015CO - Deep Sand, R072XA021KS - Sands (North) (PE 16-20)
Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 5 percent
Landform: Interdunes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R067BY015CO - Deep Sand, R072XA022KS - Sandy (North) Draft (April 2010) (PE 16-20)
Hydric soil rating: No

Julesburg

Percent of map unit: 5 percent
Landform: Interdunes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R067BY024CO - Sandy Plains, R072XA022KS - Sandy (North) Draft (April 2010) (PE 16-20)
Hydric soil rating: No

Vona

Percent of map unit: 5 percent
Landform: Interdunes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R067BY024CO - Sandy Plains, R072XA022KS - Sandy (North) Draft (April 2010) (PE 16-20)
Hydric soil rating: No

VcD—Valent sand, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 2tczf
Elevation: 3,050 to 5,150 feet
Mean annual precipitation: 12 to 18 inches
Mean annual air temperature: 48 to 55 degrees F
Frost-free period: 130 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Valent and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Valent

Setting

Landform: Hills, dunes
Landform position (two-dimensional): Shoulder, backslope, footslope, summit
Landform position (three-dimensional): Head slope, nose slope, side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Noncalcareous eolian sands

Typical profile

A - 0 to 5 inches: sand
AC - 5 to 12 inches: sand
C1 - 12 to 30 inches: sand
C2 - 30 to 80 inches: sand

Properties and qualities

Slope: 3 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 39.96 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R067BY015CO - Deep Sand, R072XY109KS - Rolling Sands
Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 10 percent
Landform: Interdunes
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R067BY015CO - Deep Sand, R072XA021KS - Sands (North) (PE 16-20)
Hydric soil rating: No

Vona

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Head slope, nose slope, side slope, base slope

Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R067BY024CO - Sandy Plains, R072XA022KS - Sandy (North) Draft (April 2010) (PE 16-20)
Hydric soil rating: No

Haxtun

Percent of map unit: 5 percent
Landform: Interdunes
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R067BY024CO - Sandy Plains, R072XY111KS - Sandy Plains
Hydric soil rating: No

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Appendix C
Site Specific Physical Design Properties

Badger Creek Switchyard Drainage Design

Existing Conditions

Area Name	Total Area (sf)	(acres)	Flow Length	Width (A/L)	Slope (%)
Existing	1744715.95	40.05	500	3489.43189	2

Land Cover Type (Soil Group A)	Curve Number	Mannings N	D-Store Pervious
Pasture, Grassland, or Range - Fair (Native)	49	0.15	0.15
Open Graded Aggregate Topping Over Compacted Base	76	0.024	0.1
Compacted Base Material	76	0.024	0.05
Pavement/Concrete	98	0.015	0.05

Roughness Coefficient and Curve Number Analysis

Existing

Description	Total Area (ac)	Manning's 'n'	A*n	CN	A*CN
Native	40.05	0.15	6.0080	49	1962.6052
		sum	6.0080		1962.6052
Total Area (ac)	**40.05**	Weighted	0.15		49
Weighted Manning's 'n'	**0.150**				
Weighted Curve Number	**49**				
Dstore Pervious (in)	**0.15**				

Badger Creek Substation Drainage Design

Proposed Conditions

Area Name	Total Area (sf)	(acres)	Flow Length	Width (A/L)	Slope (%)
Yard 1	68651.549	1.58	100	686.5	1.0
Yard 2	70615	1.62	100	706.2	1.0
Yard 3	51175.274	1.17	100	511.8	1.0
Yard 4	17476.277	0.40	100	174.8	1.0
Pond	29937.576	0.69	50	598.8	0.5
West	1082725.164	24.86	300	3609.1	1.0
East	424136.516	9.74	300	1413.8	2.5

Land Cover Type (Soil Group A)	Curve Number	Mannings N	D-Store Pervious
Pasture, Grassland, or Range - Fair (Native)	49	0.15	0.15
Open Graded Aggregate Topping Over Compacted Base	76	0.024	0.1
Compacted Base Material	76	0.024	0.05
Pavement/Concrete	98	0.015	0.05

Roughness Coefficient and Curve Number Analysis

Yard (Composite)

Description	Total Area (ac)	Manning's 'n'	A*n	CN	A*CN
Substation Yard/Driveway	4.77	0.024	0.1146	76	362.7589
Native		0.15	0.0000	49	0.0000
Pond Area	0.69	0.15	0.1031	100	68.7272
		sum	0.2176		431.4861
Total Area (ac)	**5.46**	Weighted	0.039858922		79.02074702
Weighted Manning's 'n'	**0.040**				
Weighted Curve Number	**79.02**				
Dstore Pervious (in)	**0.15**				

West

Description	Total Area (ac)	Manning's 'n'	A*n	CN	A*CN
Driveway/County Road	0.21	0.024	0.0050	76	15.9162
Native	24.65	0.15	3.6970	49	1207.6798
		sum	3.7020		1223.5960
Total Area (ac)	**24.86**	Weighted	0.14893839		49.22748788
Weighted Manning's 'n'	**0.149**				
Weighted Curve Number	**49.23**				
Dstore Pervious (in)	**0.15**				

East

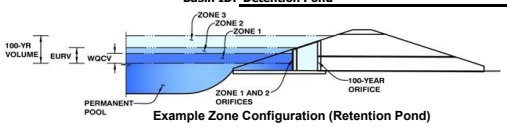
Description	Total Area (ac)	Manning's 'n'	A*n	CN	A*CN
Driveway/County Road	0.00	0.024	0.0000	76	0.0000
Native	9.74	0.15	1.4605	49	477.1049
		sum	1.4605		477.1049
Total Area (ac)	**9.74**	Weighted	0.15		49
Weighted Manning's 'n'	**0.150**				
Weighted Curve Number	**49**				
Dstore Pervious (in)	**0.15**				

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.06 (July 2022)

Project: Badger Creek Substation

Basin ID: Detention Pond



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	**EDB**	
Watershed Area =	5.46	acres
Watershed Length =	500	ft
Watershed Length to Centroid =	50	ft
Watershed Slope =	0.015	ft/ft
Watershed Imperviousness =	85.00%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides	
Water Quality Capture Volume (WQCV) =	0.165	acre-feet		acre-feet
Excess Urban Runoff Volume (EURV) =	0.621	acre-feet		acre-feet
2-yr Runoff Volume (P1 = 0.93 in.) =	0.256	acre-feet	0.93	inches
5-yr Runoff Volume (P1 = 1.23 in.) =	0.350	acre-feet	1.23	inches
10-yr Runoff Volume (P1 = 1.51 in.) =	0.439	acre-feet	1.51	inches
25-yr Runoff Volume (P1 = 1.95 in.) =	0.587	acre-feet	1.95	inches
50-yr Runoff Volume (P1 = 2.32 in.) =	0.717	acre-feet	2.32	inches
100-yr Runoff Volume (P1 = 2.74 in.) =	0.870	acre-feet	2.74	inches
500-yr Runoff Volume (P1 = 3.85 in.) =	1.273	acre-feet	3.85	inches
Approximate 2-yr Detention Volume =	0.320	acre-feet		
Approximate 5-yr Detention Volume =	0.435	acre-feet		
Approximate 10-yr Detention Volume =	0.545	acre-feet		
Approximate 25-yr Detention Volume =	0.729	acre-feet		
Approximate 50-yr Detention Volume =	0.840	acre-feet		
Approximate 100-yr Detention Volume =	0.951	acre-feet		

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.165	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.456	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.330	acre-feet
Total Detention Basin Volume =	0.951	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

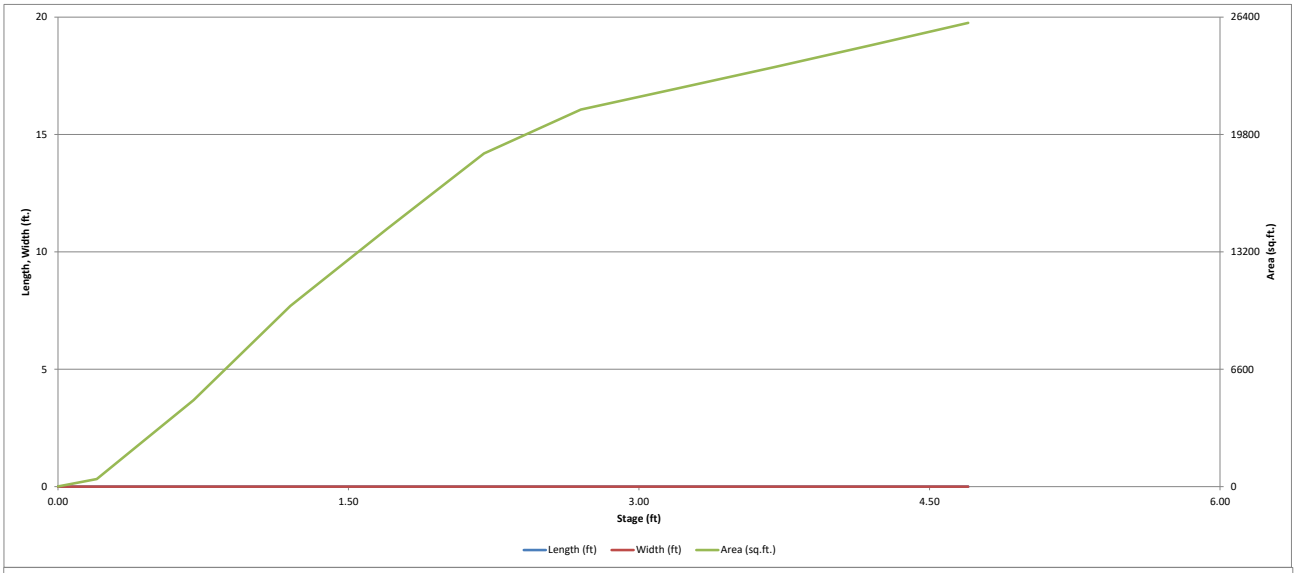
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

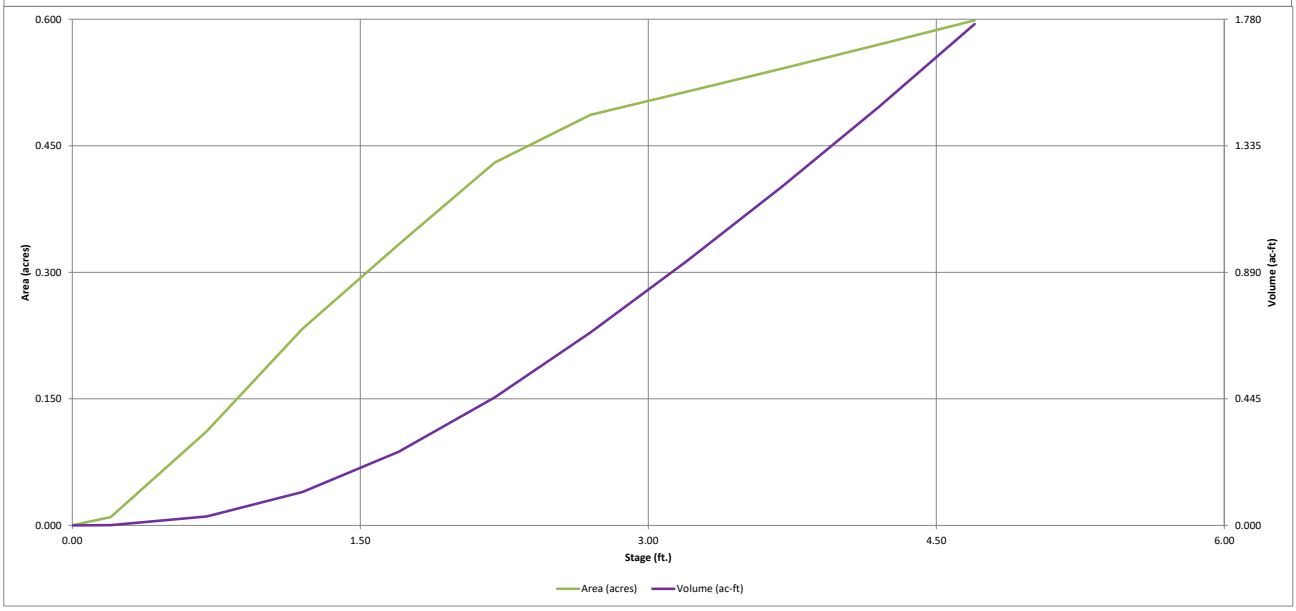
Depth Increment = 0.50 ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	10	0.000		
4800.5	--	0.20	--	--	--	429	0.010	44	0.001
4801	--	0.70	--	--	--	4,861	0.112	1,366	0.031
4801.5	--	1.20	--	--	--	10,158	0.233	5,121	0.118
4802	--	1.70	--	--	--	14,506	0.333	11,287	0.259
4802.5	--	2.20	--	--	--	18,733	0.430	19,597	0.450
4803	--	2.70	--	--	--	21,200	0.487	29,580	0.679
4803.5	--	3.20	--	--	--	22,394	0.514	40,478	0.929
4804	--	3.70	--	--	--	23,594	0.542	51,975	1.193
4804.5	--	4.20	--	--	--	24,822	0.570	64,079	1.471
4805	--	4.70	--	--	--	26,078	0.599	76,804	1.763

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.06 (July 2022)



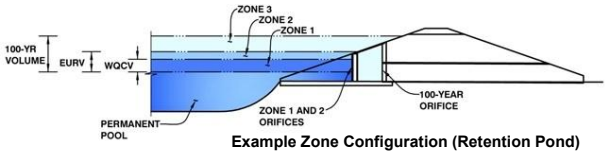


DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Project: **Badger Creek Substation**

Basin ID: **Detention Pond**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	1.39	0.165	Orifice Plate
Zone 2 (EURV)	2.58	0.456	Orifice Plate
Zone 3 (100-year)	3.25	0.330	Weir&Pipe (Restrict)
Total (all zones)		0.951	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth = ft (distance below the filtration media surface)

Underdrain Orifice Diameter = inches

Calculated Parameters for Underdrain

Underdrain Orifice Area = ft^2

Underdrain Orifice Centroid = feet

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Centroid of Lowest Orifice = 0.00 ft (relative to basin bottom at Stage = 0 ft)

Depth at top of Zone using Orifice Plate = 3.00 ft (relative to basin bottom at Stage = 0 ft)

Orifice Plate: Orifice Vertical Spacing = N/A inches

Orifice Plate: Orifice Area per Row = N/A sq. inches

Calculated Parameters for Plate

WQ Orifice Area per Row = N/A ft^2

Elliptical Half-Width = N/A feet

Elliptical Slot Centroid = N/A feet

Elliptical Slot Area = N/A ft^2

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	0.50	1.00	1.50	2.00			
Orifice Area (sq. inches)	0.79	0.79	1.23	3.14	3.14			

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =	N/A	N/A	inches

Calculated Parameters for Vertical Orifice

	Not Selected	Not Selected	
Vertical Orifice Area =	N/A	N/A	ft^2
Vertical Orifice Centroid =	N/A	N/A	feet

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir and No Outlet Pipe)

	Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	2.97	N/A	ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	4.00	N/A	feet
Overflow Weir Grate Slope =	0.00	N/A	H:V
Horiz. Length of Weir Sides =	2.50	N/A	feet
Overflow Grate Type =	Type C Grate	N/A	
Debris Clogging % =	50%	N/A	%

Calculated Parameters for Overflow Weir

	Zone 3 Weir	Not Selected	
Height of Grate Upper Edge, H_t =	2.97	N/A	feet
Overflow Weir Slope Length =	2.50	N/A	feet
Grate Open Area / 100-yr Orifice Area =	8.86	N/A	
Overflow Grate Open Area w/o Debris =	6.96	N/A	ft^2
Overflow Grate Open Area w/ Debris =	3.48	N/A	ft^2

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	0.33	N/A	ft (distance below basin bottom at Stage = 0 ft)
Outlet Pipe Diameter =	12.00	N/A	inches
Restrictor Plate Height Above Pipe Invert =	12.00		inches

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

	Zone 3 Restrictor	Not Selected	
Outlet Orifice Area =	0.79	N/A	ft^2
Outlet Orifice Centroid =	0.50	N/A	feet
Half-Central Angle of Restrictor Plate on Pipe =	3.14	N/A	radians

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage= 3.20 ft (relative to basin bottom at Stage = 0 ft)

Spillway Crest Length = 20.00 feet

Spillway End Slopes = 4.00 H:V

Freeboard above Max Water Surface = 1.00 feet

Calculated Parameters for Spillway

Spillway Design Flow Depth= 0.52 feet

Stage at Top of Freeboard = 4.72 feet

Basin Area at Top of Freeboard = 0.60 acres

Basin Volume at Top of Freeboard = 1.76 acre-ft

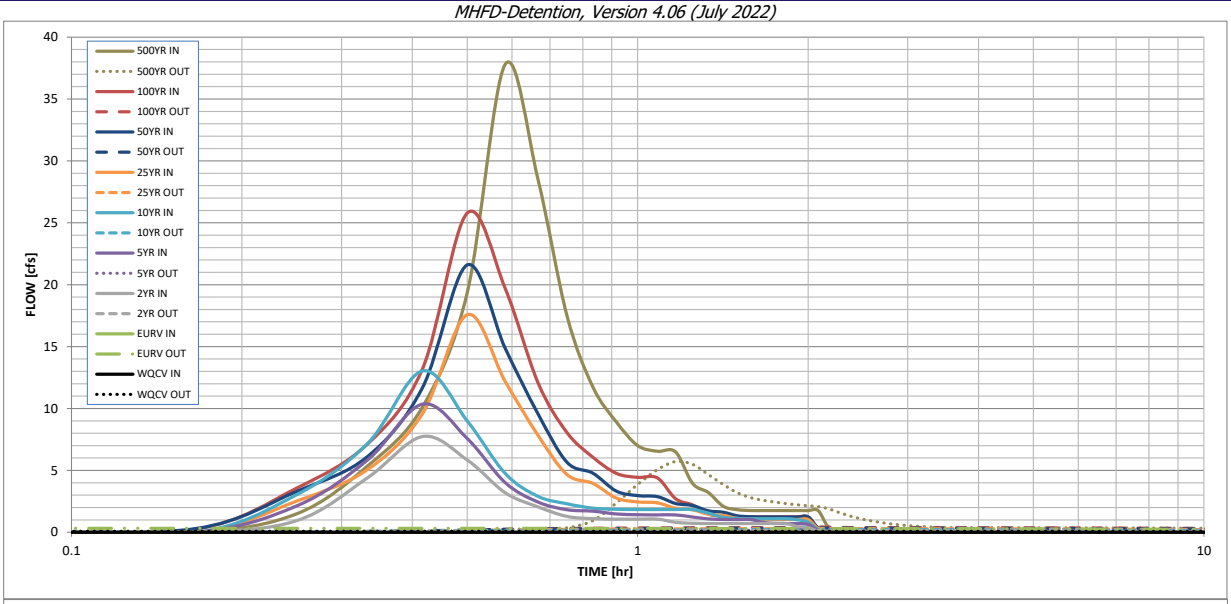
Routed Hydrograph Results

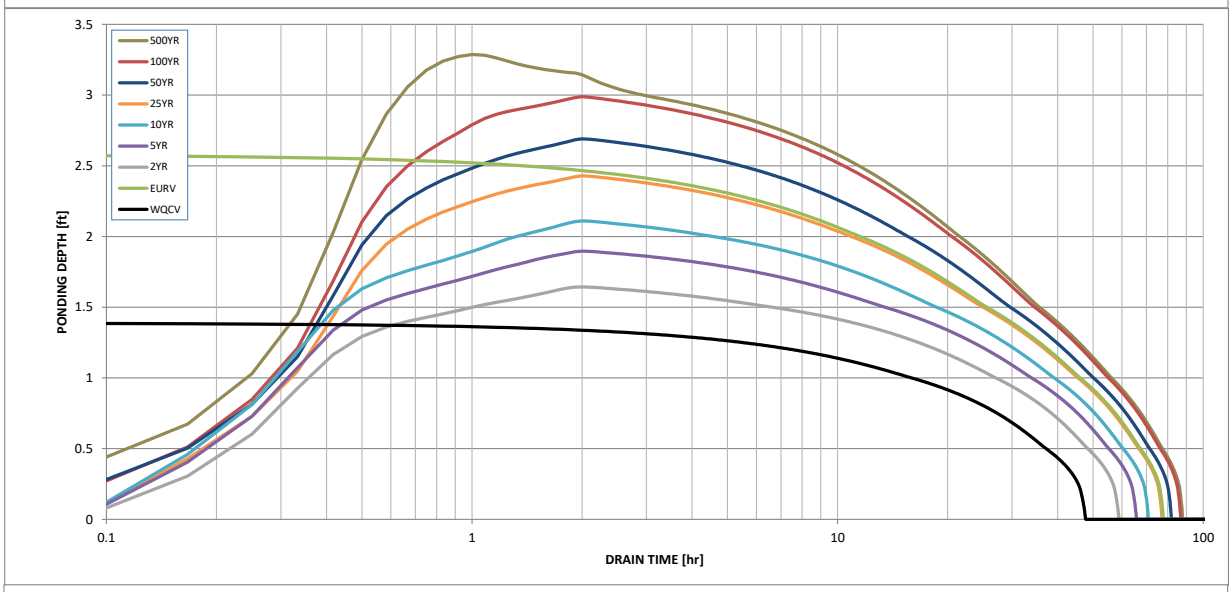
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

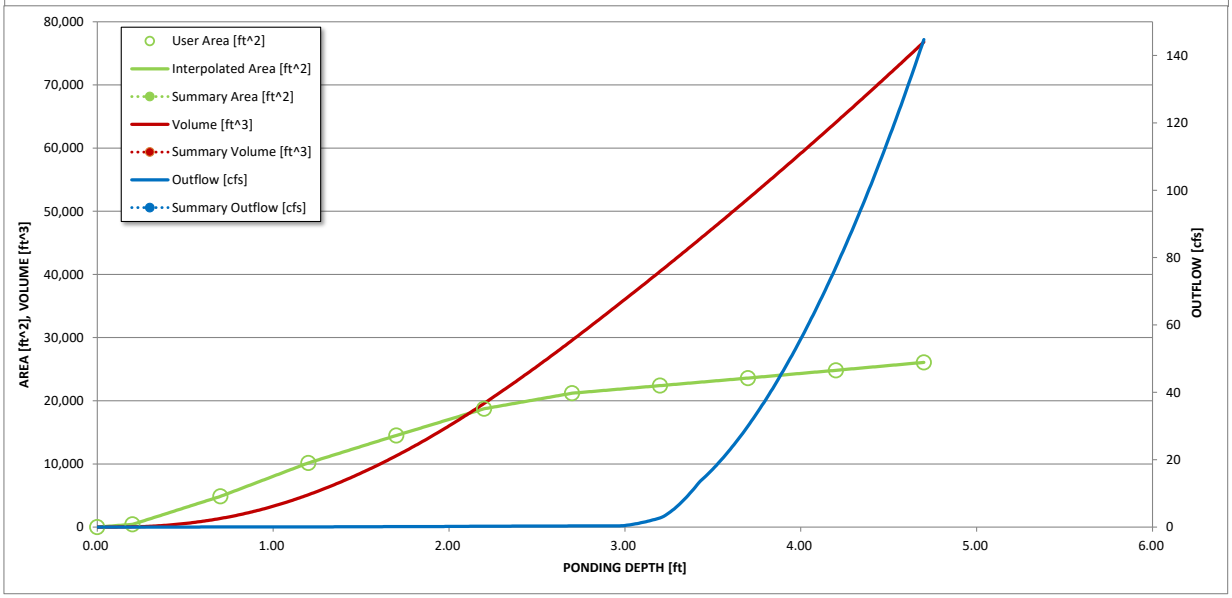
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	0.93	1.23	1.51	1.95	2.32	2.74	3.85
CUHP Runoff Volume (acre-ft) =	0.165	0.621	0.256	0.350	0.439	0.587	0.717	0.870	1.273
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.256	0.350	0.439	0.587	0.717	0.870	1.273
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.0	0.1	0.2	1.9	4.9	8.9	18.6
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.00	0.02	0.03	0.35	0.89	1.63	3.42
Peak Inflow Q (cfs) =	N/A	N/A	7.7	10.3	13.0	17.6	21.6	25.8	37.8
Peak Outflow Q (cfs) =	0.1	0.3	0.1	0.2	0.2	0.3	0.3	0.4	5.7
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	1.8	1.4	0.2	0.1	0.0	0.3
Structure Controlling Flow =	Plate	Plate	Plate	Plate	Plate	Plate	Plate	Overflow Weir 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.5
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	43	65	52	57	60	64	67	71	67
Time to Drain 99% of Inflow Volume (hours) =	**46**	72	56	62	67	72	76	79	78
Maximum Ponding Depth (ft) =	1.39	2.58	1.64	1.90	2.11	2.43	2.69	2.99	3.29
Area at Maximum Ponding Depth (acres) =	0.27	0.47	0.32	0.37	0.41	0.45	0.49	0.50	0.52
Maximum Volume Stored (acre-ft) =	0.165	0.621	0.239	0.326	0.412	0.547	0.674	0.817	0.971

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)







S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename:

Inflow Hydrographs

The user can override the calculated inflow hydrographs from this workbook with inflow hydrographs developed in a separate program.

	SOURCE	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP
Time Interval	TIME	WQCV [cfs]	EURV [cfs]	2 Year [cfs]	5 Year [cfs]	10 Year [cfs]	25 Year [cfs]	50 Year [cfs]	100 Year [cfs]	500 Year [cfs]
5.00 min	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.27	1.50
	0:15:00	0.00	0.00	0.94	2.13	3.04	2.52	3.31	3.57	5.35
	0:20:00	0.00	0.00	4.40	5.84	7.17	5.07	6.12	7.13	10.10
	0:25:00	0.00	0.00	7.73	10.35	13.03	9.57	11.67	13.18	19.35
	0:30:00	0.00	0.00	5.84	7.57	9.00	17.58	21.60	25.79	37.79
	0:35:00	0.00	0.00	3.20	4.02	4.76	12.19	14.88	19.72	28.52
	0:40:00	0.00	0.00	2.05	2.44	2.90	7.84	9.57	12.09	17.51
	0:45:00	0.00	0.00	1.28	1.82	2.30	4.67	5.66	8.06	11.75
	0:50:00	0.00	0.00	1.10	1.71	1.95	3.95	4.77	6.07	8.92
	0:55:00	0.00	0.00	1.06	1.48	1.86	2.77	3.33	4.76	7.01
	1:00:00	0.00	0.00	1.06	1.42	1.84	2.45	2.96	4.44	6.55
	1:05:00	0.00	0.00	1.06	1.40	1.84	2.38	2.88	4.39	6.49
	1:10:00	0.00	0.00	0.80	1.40	1.84	1.94	2.32	2.71	3.96
	1:15:00	0.00	0.00	0.73	1.23	1.84	1.81	2.16	2.21	3.21
	1:20:00	0.00	0.00	0.71	1.08	1.55	1.46	1.73	1.48	2.10
	1:25:00	0.00	0.00	0.71	1.04	1.21	1.36	1.62	1.30	1.83
	1:30:00	0.00	0.00	0.71	1.03	1.11	1.12	1.33	1.25	1.76
	1:35:00	0.00	0.00	0.71	1.03	1.09	1.05	1.25	1.25	1.76
	1:40:00	0.00	0.00	0.71	0.79	1.09	1.04	1.24	1.25	1.76
	1:45:00	0.00	0.00	0.71	0.72	1.09	1.04	1.24	1.25	1.76
	1:50:00	0.00	0.00	0.71	0.70	1.09	1.04	1.24	1.25	1.76
	1:55:00	0.00	0.00	0.45	0.70	1.01	1.04	1.24	1.25	1.76
	2:00:00	0.00	0.00	0.37	0.63	0.82	1.04	1.24	1.25	1.76
	2:05:00	0.00	0.00	0.10	0.17	0.22	0.28	0.34	0.34	0.47
	2:10:00	0.00	0.00	0.02	0.03	0.04	0.06	0.07	0.07	0.10
	2:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Summary Stage-Area-Volume-Discharge Relationships

The user can create a summary S-A-V-D by entering the desired stage increments and the remainder of the table will populate automatically.
The user should graphically compare the summary S-A-V-D table to the full S-A-V-D table in the chart to confirm it captures all key transition points.

Stage - Storage Description	Stage [ft]	Area [ft^2]	Area [acres]	Volume [ft^3]	Volume [ac-ft]	Total Outflow [cfs]

Appendix D
SWMM Modeling Results

Project Description

File Name	24211BadgerCreekDrainage-2.SPF

Project Options

Flow Units	CFS
Elevation Type	Elevation
Hydrology Method	EPA SWMM
EPA SWMM Infiltration Method	SCS Curve Number
Link Routing Method	Kinematic Wave
Enable Overflow Ponding at Nodes	YES
Skip Steady State Analysis Time Periods	NO

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	0 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	30	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	8
Nodes	12
Junctions	9
Outfalls	2
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	15
Channels	0
Pipes	9
Pumps	0
Orifices	5
Weirs	1
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	25 Year	Cumulative	inches	Colorado	Morgan	25.00	3.38	SCS Type II 24-hr

Badger Creek Substation
25 Year 24 Hour Storm

Subbasin Summary

SN	Subbasin ID	Area	Impervious Area	Weighted Curve Number	Average Slope	Equivalent Width	Impervious Area Manning's Roughness	Pervious Area Manning's Roughness	Total Rainfall	Total Infiltration	Total Runoff	Total Runoff Volume	Peak Runoff	Time of Concentration
		(ac)	(%)		(%)	(ft)			(in)	(in)	(in)	(ac-in)	(cfs)	(days hh:mm:ss)
1	Existing	40.05	2.00	49.00	2.0000	3500.00	0.0150	0.1500	3.38	2.6450	0.69	27.47	9.18	0 01:27:35
2	P-East	9.74	2.00	49.00	0.5000	500.00	0.0150	0.1500	3.38	2.7020	0.63	6.12	1.24	0 03:02:41
3	Pond	0.69	25.00	100.00	0.5000	598.00	0.0150	0.1000	3.38	0.0760	3.15	2.17	3.09	0 00:22:22
4	P-West	24.86	2.00	49.23	0.5000	500.00	0.0150	0.1500	3.38	2.7850	0.55	13.57	2.71	0 05:20:33
5	Yard-1	1.58	20.00	76.00	1.0000	686.50	0.0150	0.0240	3.38	1.4310	1.89	2.99	4.99	0 00:12:08
6	Yard-2	1.62	20.00	76.00	1.0000	706.00	0.0150	0.0240	3.38	1.4310	1.89	3.07	5.12	0 00:12:07
7	Yard-3	1.17	20.00	76.00	1.0000	511.00	0.0150	0.0360	3.38	1.4330	1.91	2.23	3.58	0 00:15:26
8	Yard-4	0.40	20.00	76.00	1.5000	175.00	0.0150	0.0240	3.38	1.4300	1.89	0.76	1.28	0 00:10:42

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft^2)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	1-Jun	Junction	4801.82	4803.82	0.00	6.00	0.00	1.24	4802.32	0.00	1.50	0 00:00	0.00	0.00
2	2-Jun	Junction	4801.64	4803.64	0.00	6.00	0.00	1.23	4802.11	0.00	1.53	0 00:00	0.00	0.00
3	7-Jun	Junction	4801.68	4805.56	0.00	0.00	0.00	14.54	4803.08	0.00	2.48	0 00:00	0.00	0.00
4	8-Jun	Junction	4802.48	4805.56	0.00	0.00	0.00	9.72	4803.55	0.00	2.01	0 00:00	0.00	0.00
5	9-Jun	Junction	4803.10	4805.60	0.00	0.00	0.00	4.75	4804.09	0.00	1.51	0 00:00	0.00	0.00
6	10-Jun	Junction	4805.43	4807.93	0.00	0.00	0.00	1.28	4805.88	0.00	2.05	0 00:00	0.00	0.00
7	Outlet-Pipe	Junction	4800.00	4804.00	0.00	6.00	0.00	0.36	4800.28	0.00	3.72	0 00:00	0.00	0.00
8	Pond-In	Junction	4801.00	4805.00	0.00	6.00	0.00	17.55	4802.68	0.00	2.32	0 00:00	0.00	0.00
9	Pond-Out	Junction	4799.79	4801.00	0.00	6.00	0.00	0.36	4800.10	0.00	0.90	0 00:00	0.00	0.00
10	Out-Ex	Outfall	4798.00					9.18	4798.00					
11	Out-P	Outfall	4798.00					4.12	4798.00					
12	EDB-1	Storage Node	4800.30	4805.00	0.00		0.00	17.55	4802.89				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Reported Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Link-01	Pipe	1-Jun	2-Jun	52.45	4801.85	4801.64	0.4000	18.000	0.0150	1.23	5.76	0.21	2.60	0.47	0.31	0.00	Calculated
2	Link-02	Pipe	2-Jun	Out-P	874.53	0.00	0.00	0.0000	0.000	0.0150	1.23	0.00	0.21	0.00	0.47	0.31	0.00	Calculated
3	Link-03	Pipe	Pond-In	EDB-1	86.45	0.00	0.00	0.0000	0.000	0.0150	17.55	0.00	0.21	0.00	0.47	0.31	0.00	Calculated
4	Link-06	Pipe	Pond-Out	Out-P	257.75	0.00	0.00	0.0000	0.000	0.0150	0.36	0.00	0.21	0.00	0.47	0.31	0.00	Calculated
5	Outfall-Pipe	Pipe	Outlet-Pipe	Pond-Out	36.50	4799.97	4799.82	0.4100	12.000	0.0150	0.36	2.17	0.17	2.05	0.28	0.28	0.00	Calculated
6	SD-1	Pipe	7-Jun	Pond-In	80.00	4801.68	4801.28	0.5000	24.000	0.0120	14.54	17.33	0.84	6.18	1.39	0.70	0.00	Calculated
7	SD-2	Pipe	8-Jun	7-Jun	160.09	4802.48	4801.68	0.5000	24.000	0.0120	9.70	17.32	0.56	5.68	1.06	0.54	0.00	Calculated
8	SD-3	Pipe	9-Jun	8-Jun	125.21	4803.10	4802.48	0.5000	15.000	0.0120	4.73	4.92	0.96	4.60	0.97	0.79	0.00	Calculated
9	SD-4	Pipe	10-Jun	9-Jun	356.41	4805.43	4803.10	0.6500	12.000	0.0120	1.24	3.12	0.40	3.81	0.43	0.44	0.00	Calculated
10	Orifice-1	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		1.000		0.04							
11	Orifice-2	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		1.000		0.04							
12	Orifice-3	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		1.250		0.06							
13	Orifice-4	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		2.000		0.12							
14	Orifice-5	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		2.000		0.10							
15	Weir-01	Weir	EDB-1	Outlet-Pipe		4800.30	4800.00				0.00							

Subbasin Hydrology

Subbasin : Existing

Input Data

Area (ac)	40.05
Impervious Area (%)	2
Weighted Curve Number	49
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	2
Equivalent Width (ft)	3500
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.15
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Pasture, grassland, or range, Fair	40.05	A	49
Composite Area & Weighted CN	40.05		49

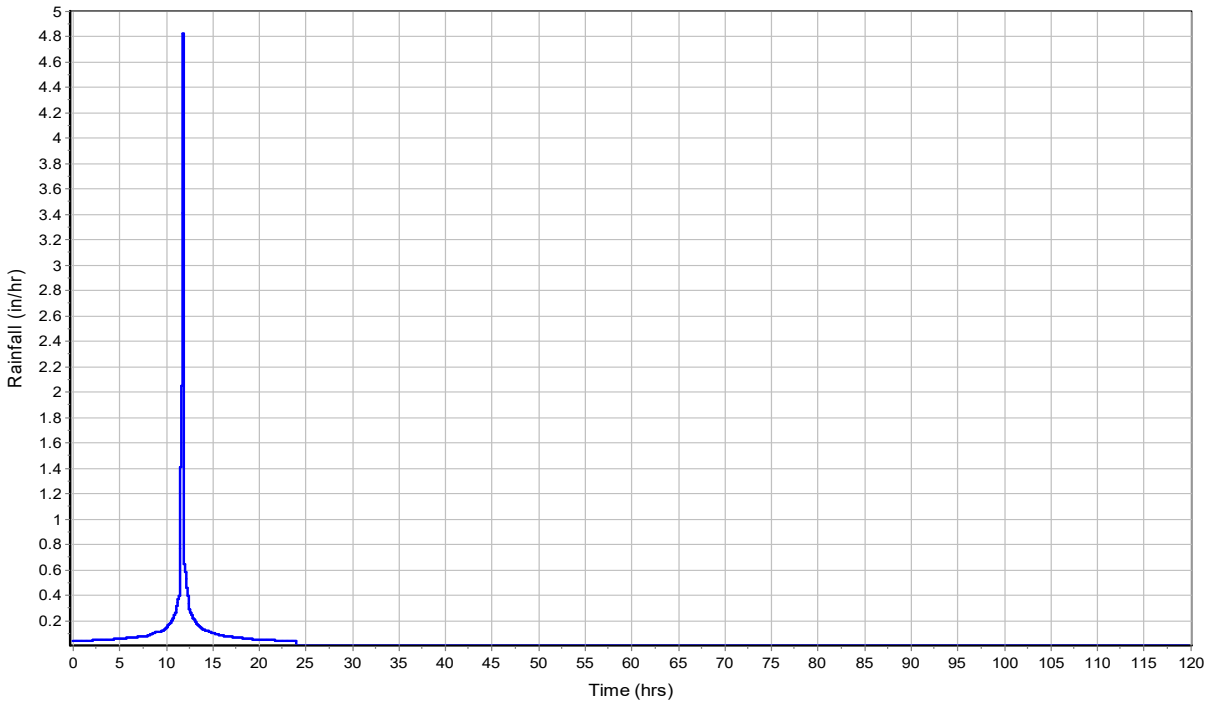
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	2.645
Total Runoff (in)	0.69
Peak Runoff (cfs)	9.18
Weighted Curve Number	49
Time of Concentration (days hh:mm:ss)	0 01:27:35

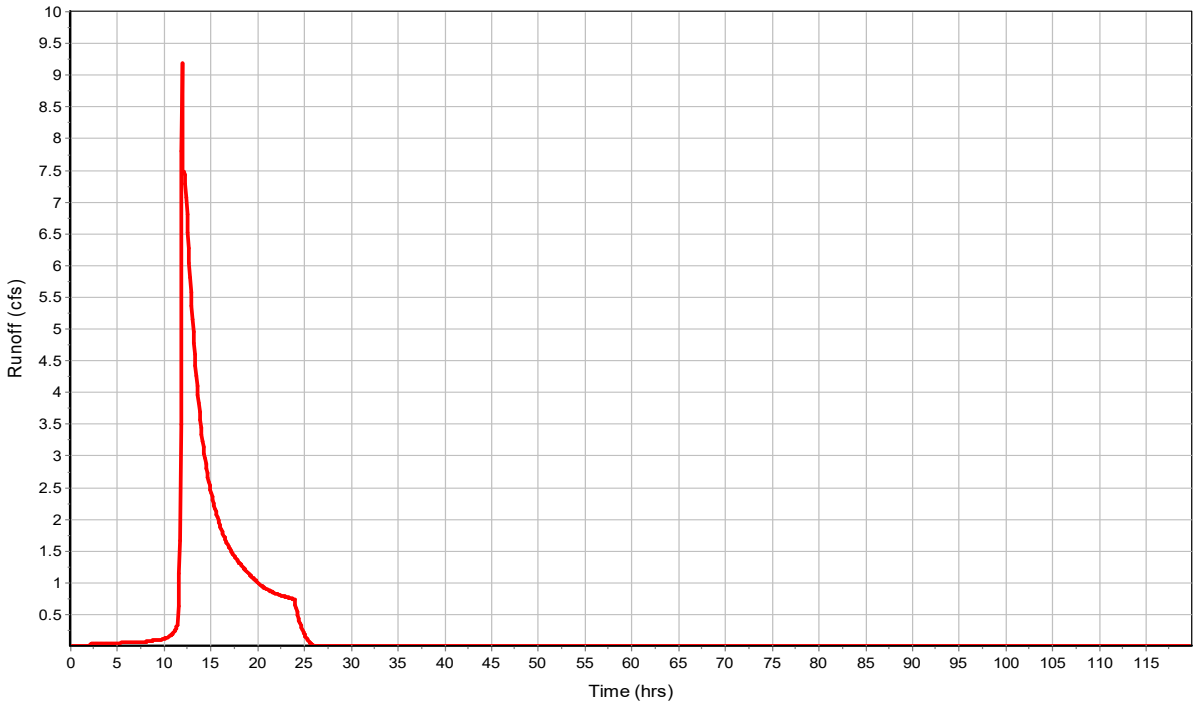
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : Existing

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : P-East

Input Data

Area (ac)	9.74
Impervious Area (%)	2
Weighted Curve Number	49
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	0.5
Equivalent Width (ft)	500
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.15
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	9.74	-	49
Composite Area & Weighted CN	9.74		49

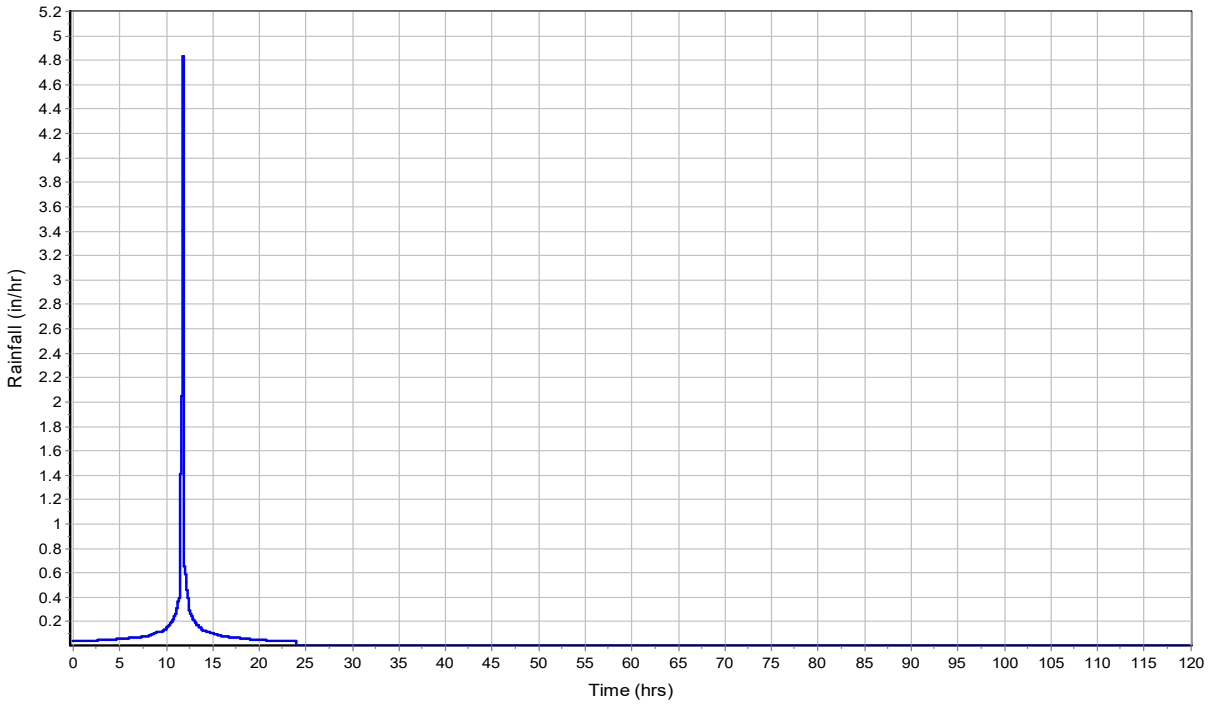
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	2.702
Total Runoff (in)	0.63
Peak Runoff (cfs)	1.24
Weighted Curve Number	49
Time of Concentration (days hh:mm:ss)	0 03:02:41

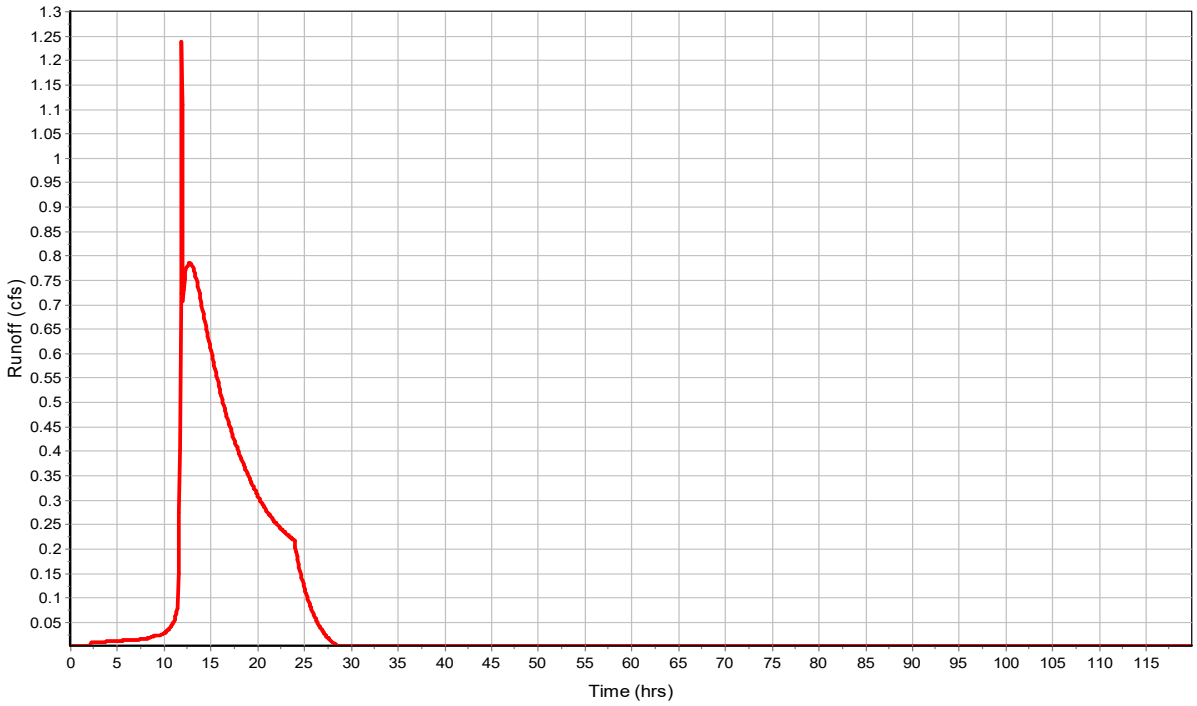
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : P-East

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Pond

Input Data

Area (ac)	0.69
Impervious Area (%)	25
Weighted Curve Number	100
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	0.5
Equivalent Width (ft)	598
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.69	-	100
Composite Area & Weighted CN	0.69		100

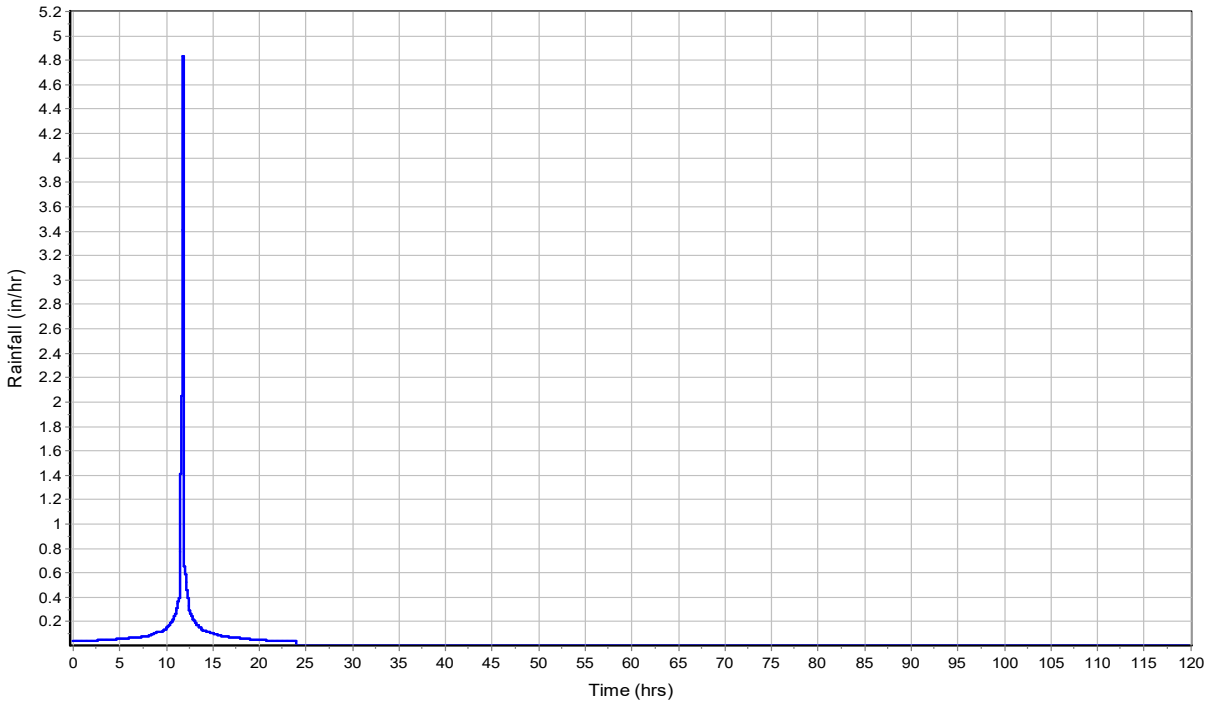
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	0.076
Total Runoff (in)	3.15
Peak Runoff (cfs)	3.09
Weighted Curve Number	100
Time of Concentration (days hh:mm:ss)	0 00:22:22

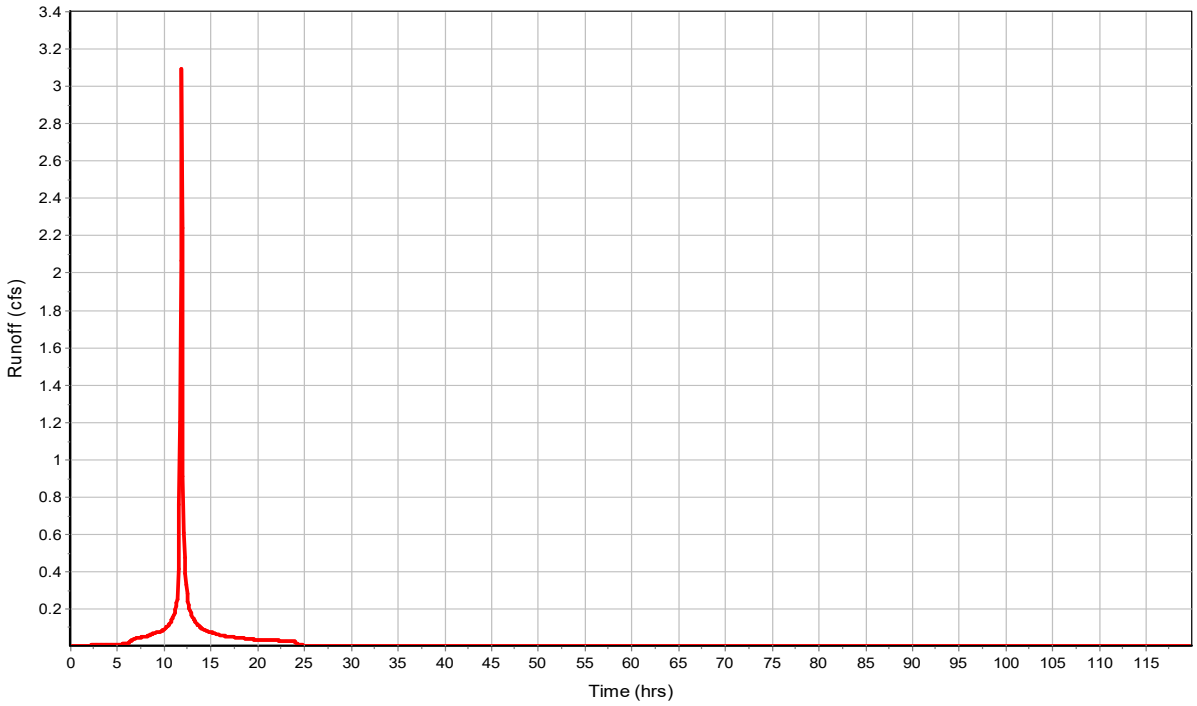
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : Pond

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : P-West

Input Data

Area (ac)	24.86
Impervious Area (%)	2
Weighted Curve Number	49.23
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	0.5
Equivalent Width (ft)	500
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.15
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	25.07	-	49.23
Composite Area & Weighted CN	25.07		49.23

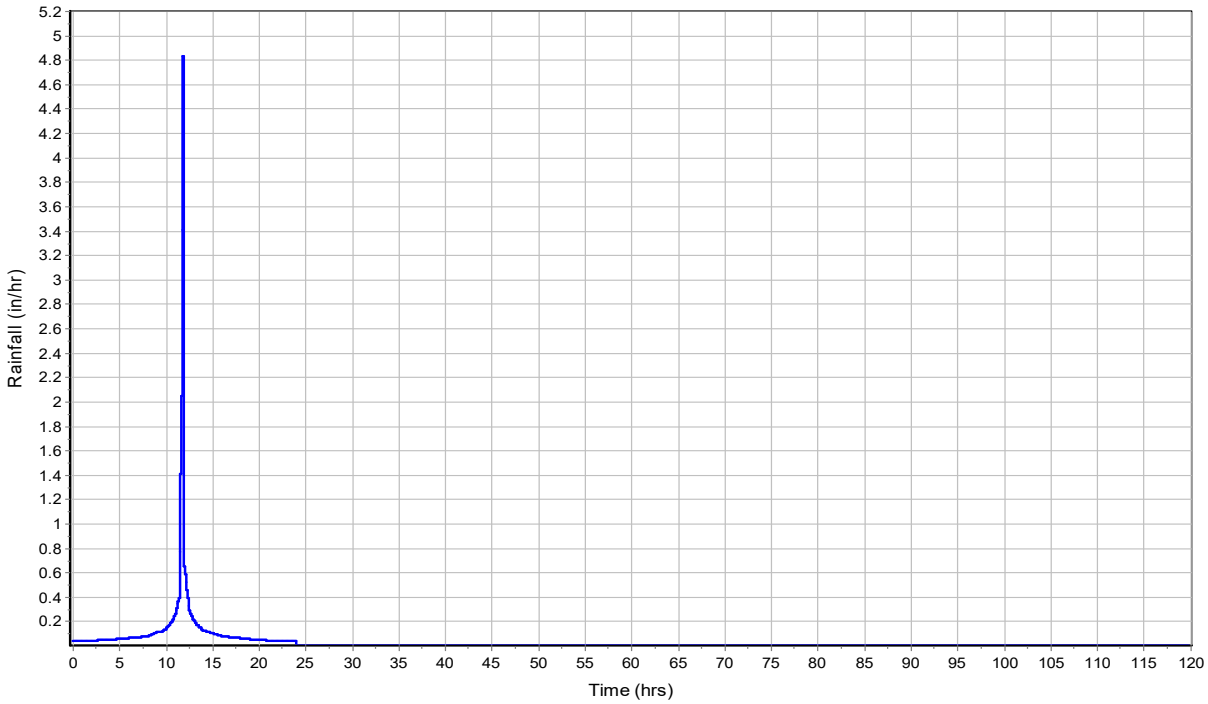
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	2.785
Total Runoff (in)	0.55
Peak Runoff (cfs)	2.71
Weighted Curve Number	49.23
Time of Concentration (days hh:mm:ss)	0 05:20:33

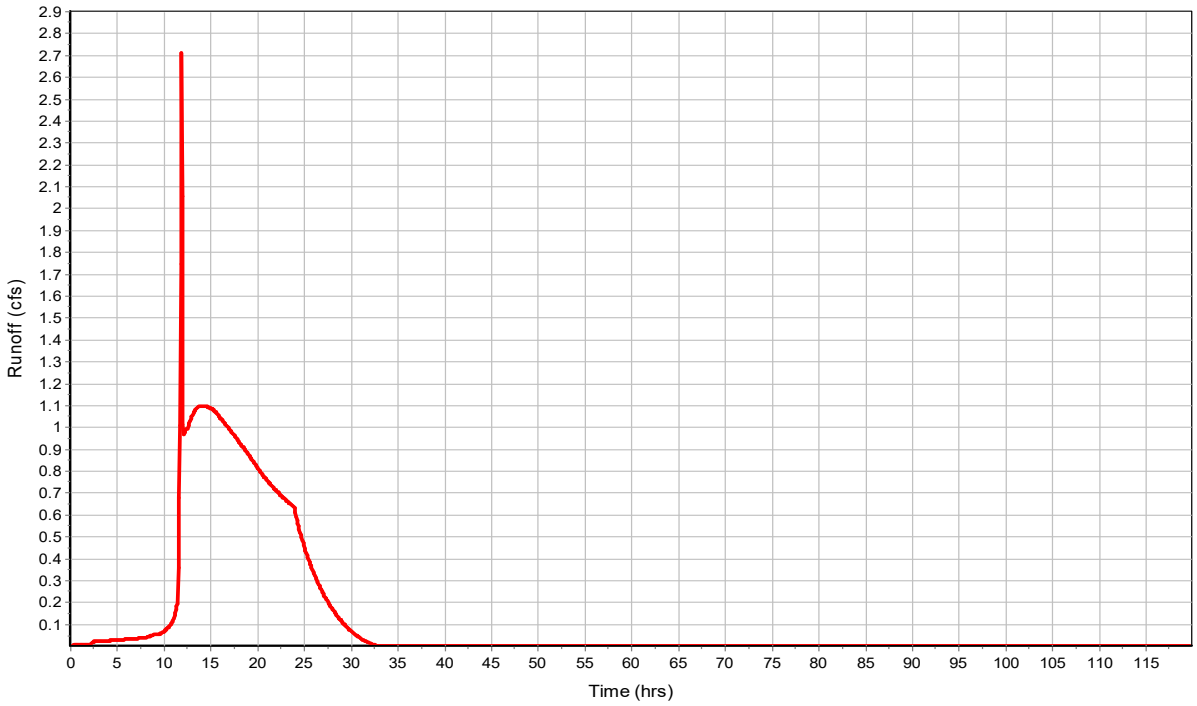
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : P-West

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-1

Input Data

Area (ac)	1.58
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1
Equivalent Width (ft)	686.5
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.024
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	5.25	-	76
Composite Area & Weighted CN	5.25		76

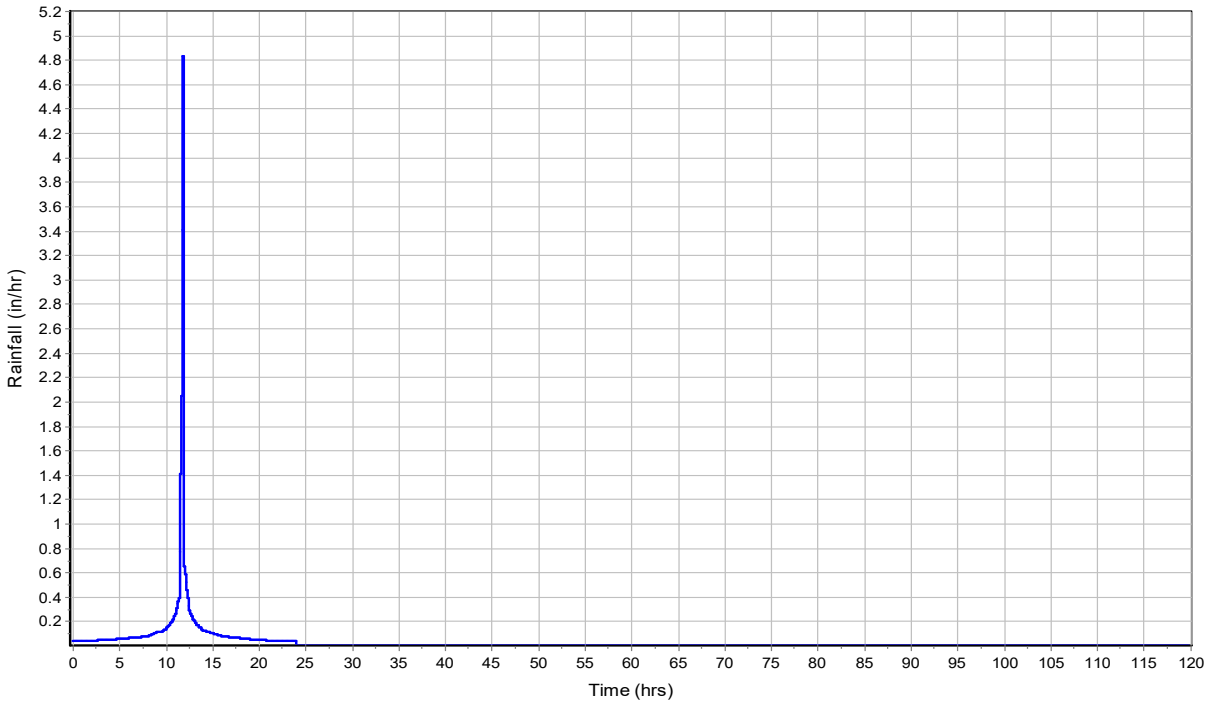
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.431
Total Runoff (in)	1.89
Peak Runoff (cfs)	4.99
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:12:08

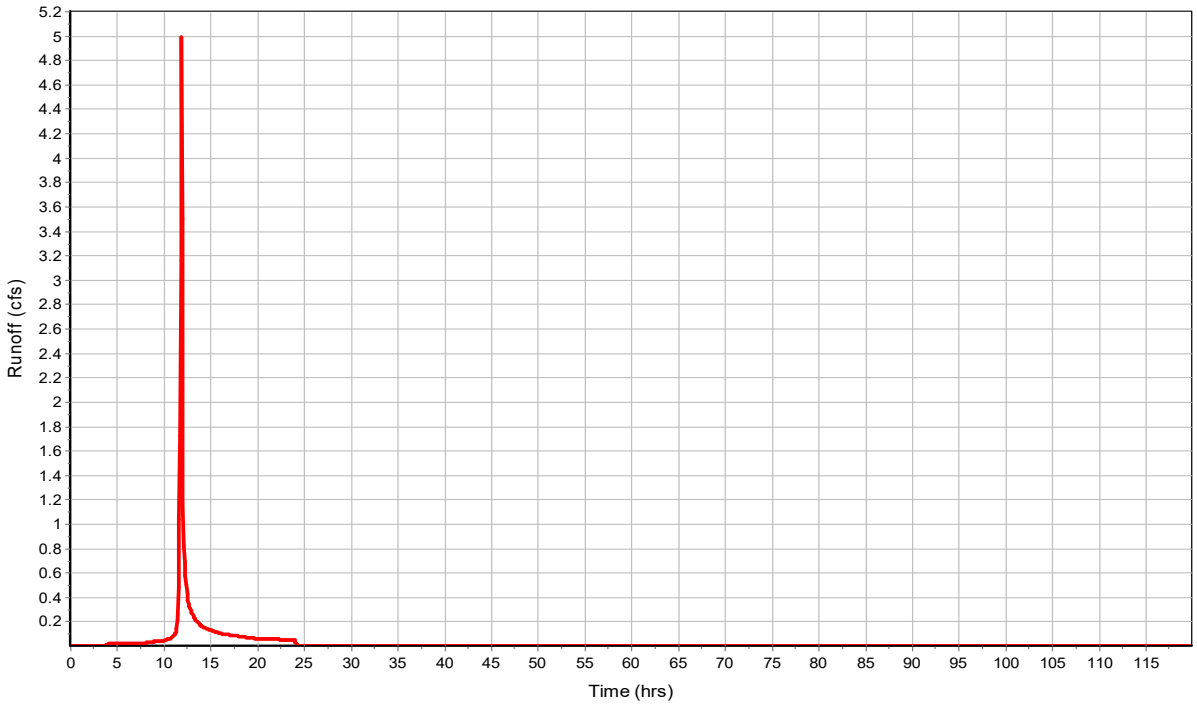
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : Yard-1

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-2

Input Data

Area (ac)	1.62
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1
Equivalent Width (ft)	706
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.024
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	1.62	-	76
Composite Area & Weighted CN	1.62		76

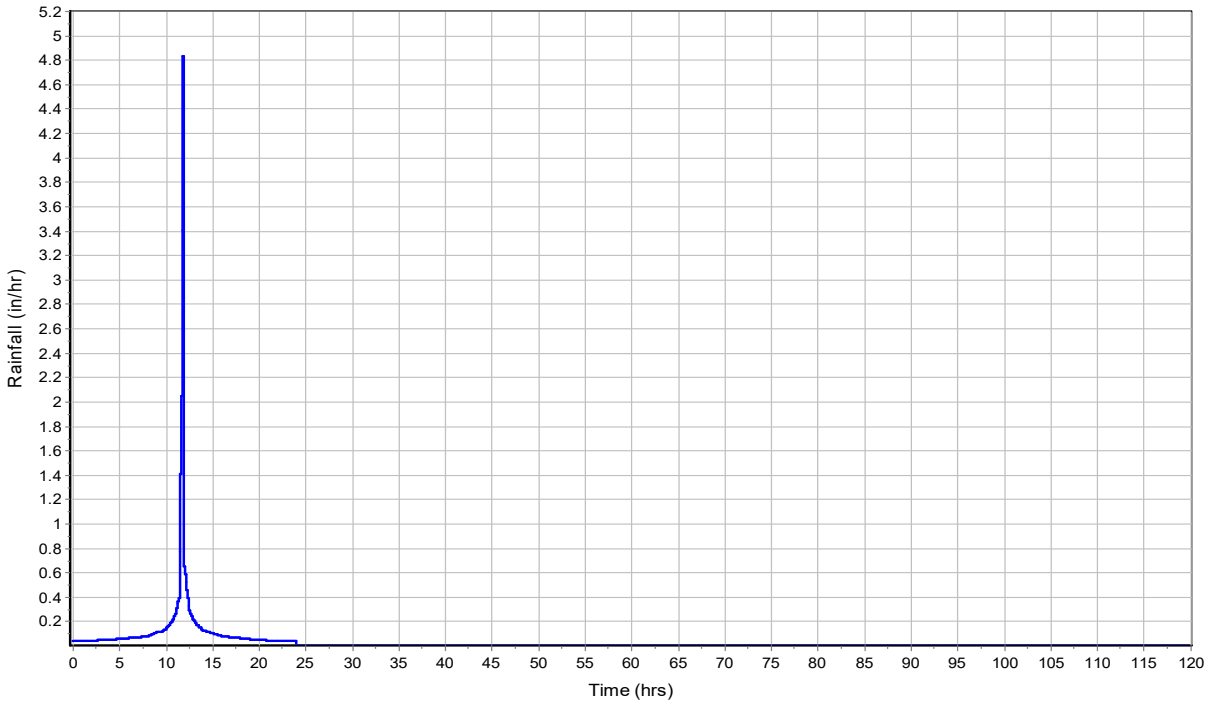
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.431
Total Runoff (in)	1.89
Peak Runoff (cfs)	5.12
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:12:07

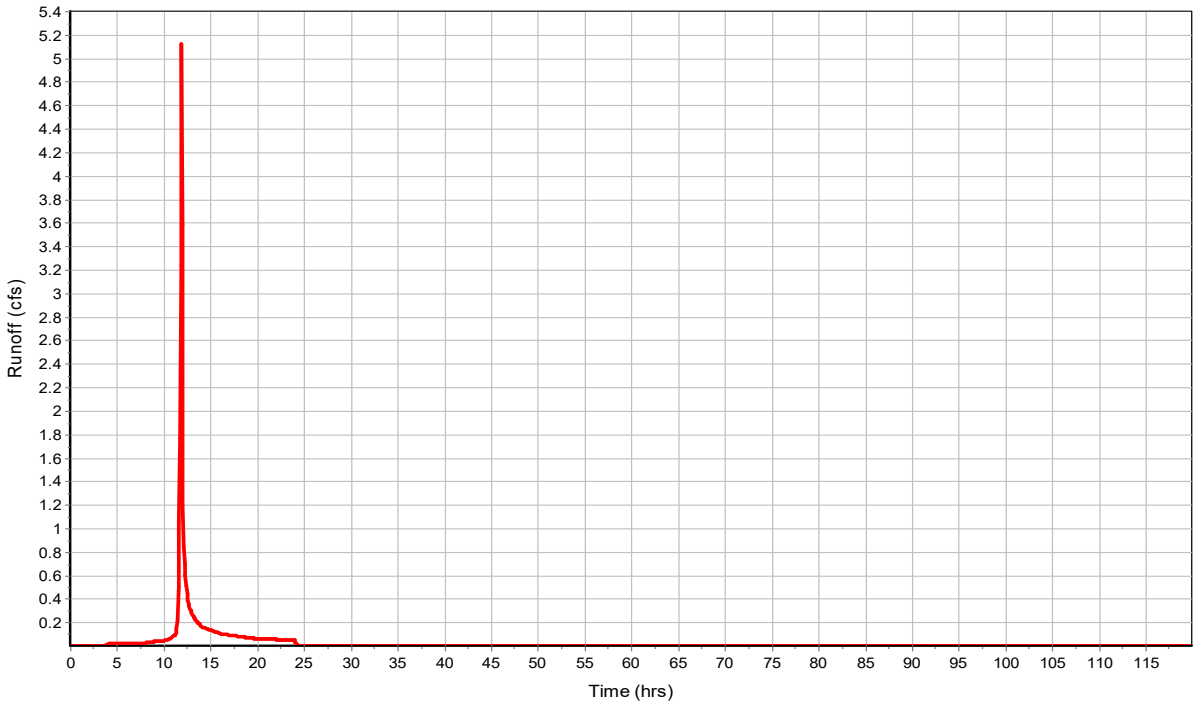
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : Yard-2

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-3

Input Data

Area (ac)	1.17
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1
Equivalent Width (ft)	511
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.036
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	1.17	-	76
Composite Area & Weighted CN	1.17		76

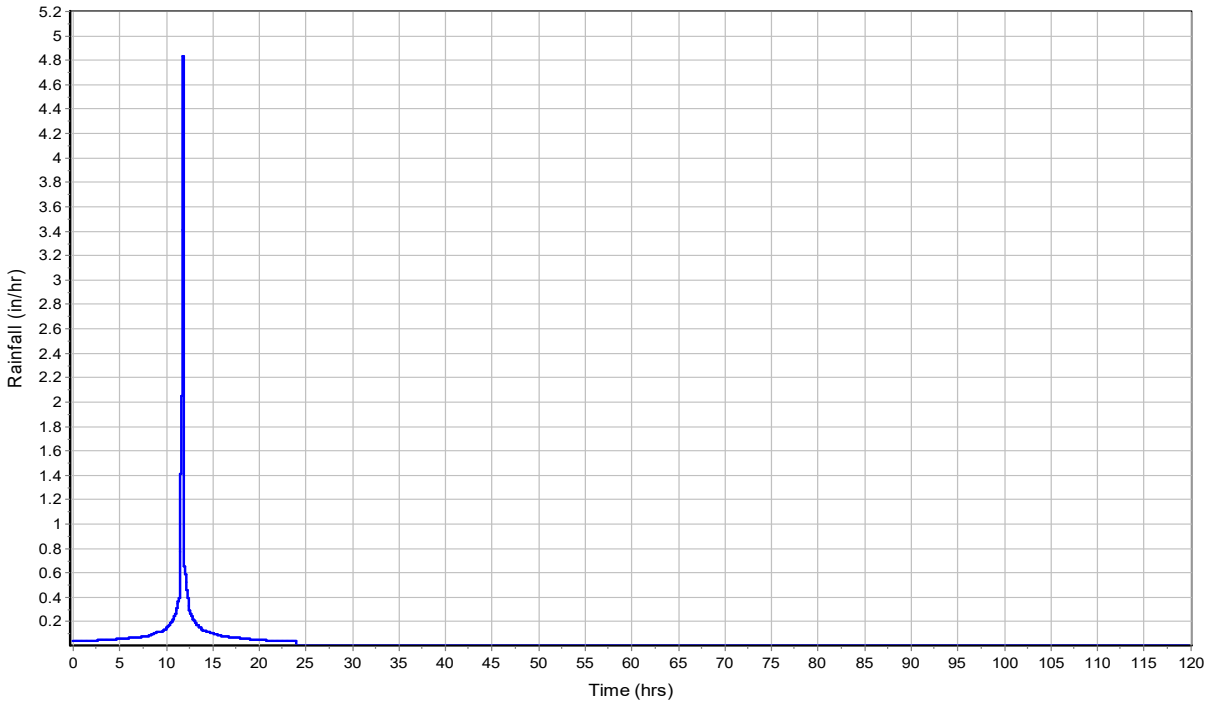
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.433
Total Runoff (in)	1.91
Peak Runoff (cfs)	3.58
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:15:26

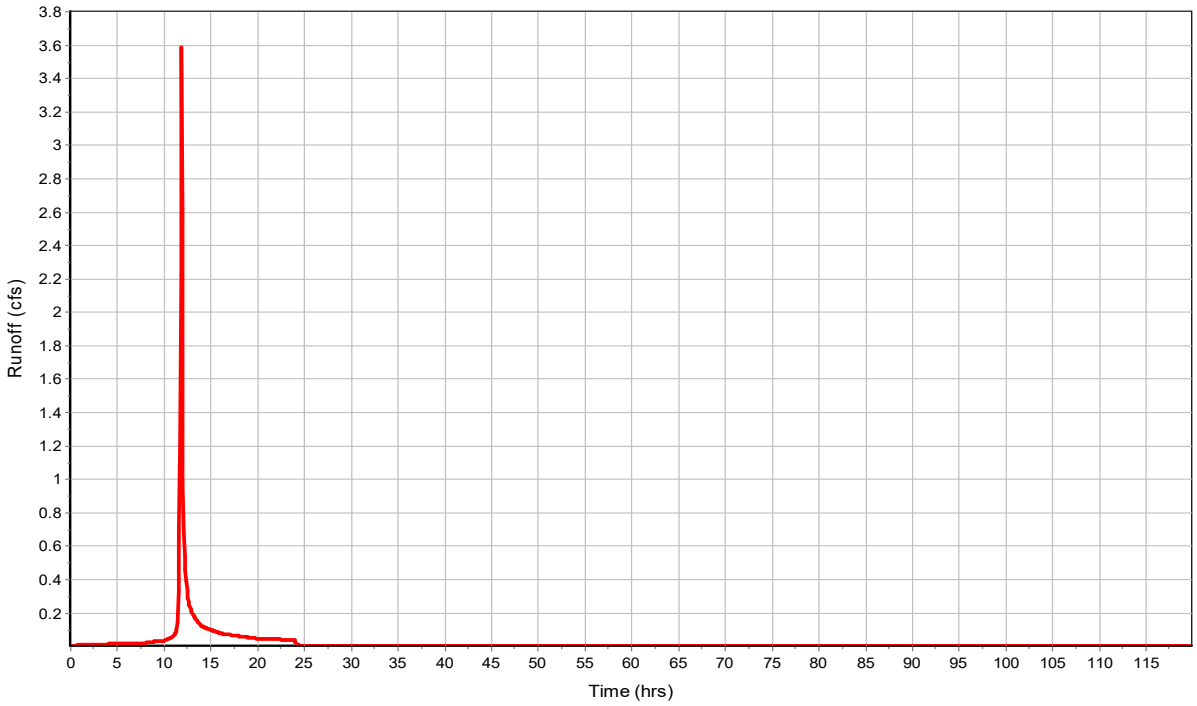
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : Yard-3

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-4

Input Data

Area (ac)	0.4
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1.5
Equivalent Width (ft)	175
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.024
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.4	-	76
Composite Area & Weighted CN	0.4		76

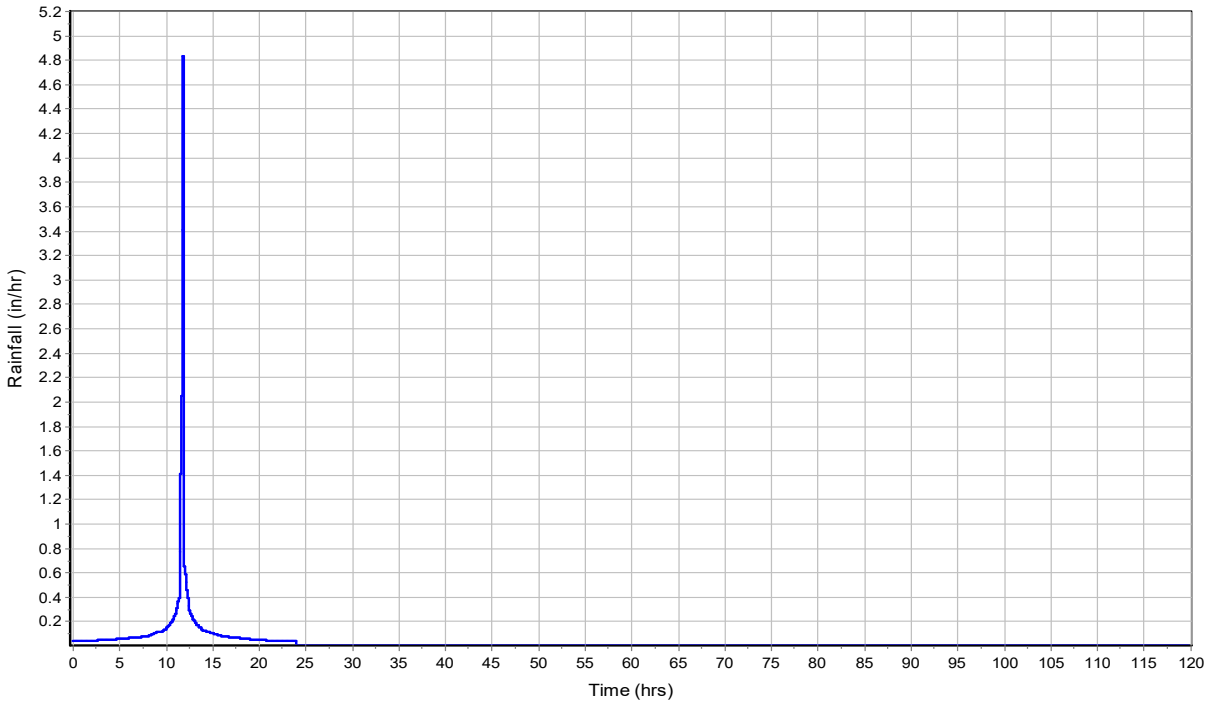
Subbasin Runoff Results

Total Rainfall (in)	3.38
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.43
Total Runoff (in)	1.89
Peak Runoff (cfs)	1.28
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:10:42

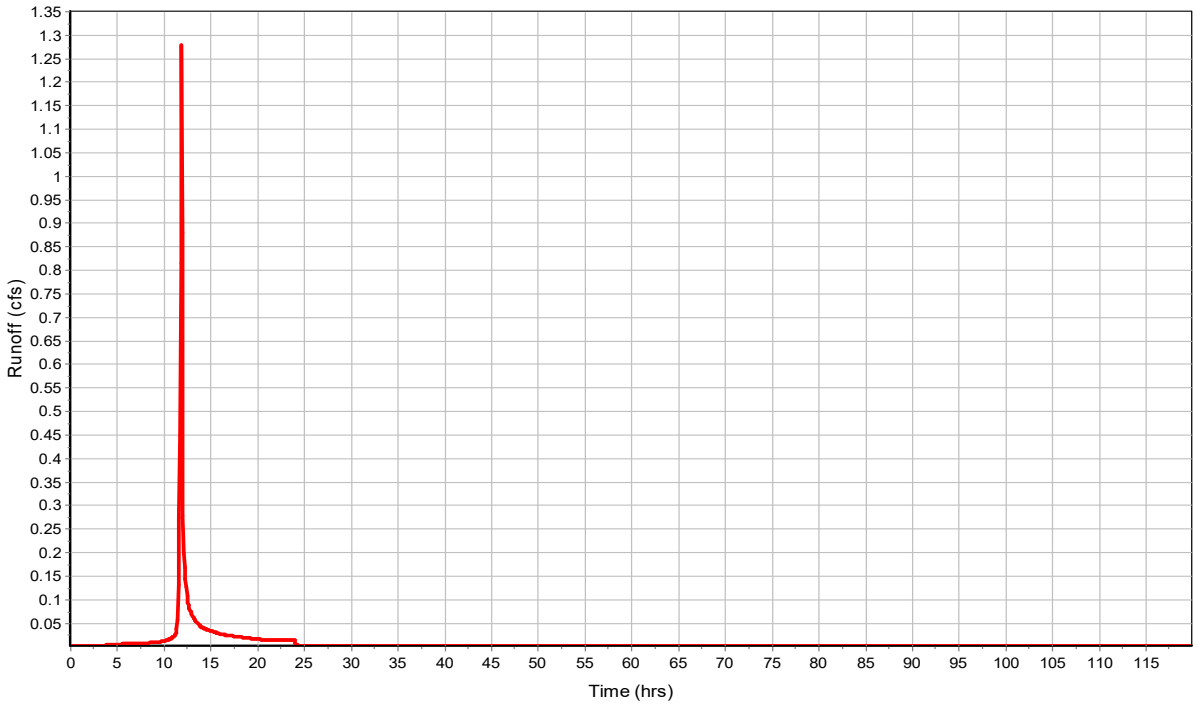
Badger Creek Substation
25 Year 24 Hour Storm

Subbasin : Yard-4

Rainfall Intensity Graph



Runoff Hydrograph



Badger Creek Substation
25 Year 24 Hour Storm

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft^2)	Minimum Pipe Cover (in)
1	1-Jun	4801.82	4803.82	2.00	0.00	-4801.82	6.00	-4797.82	0.00	0.00
2	2-Jun	4801.64	4803.64	2.00	0.00	-4801.64	6.00	-4797.64	0.00	0.00
3	7-Jun	4801.68	4805.56	3.88	0.00	-4801.68	0.00	-4805.56	0.00	0.00
4	8-Jun	4802.48	4805.56	3.08	0.00	-4802.48	0.00	-4805.56	0.00	0.00
5	9-Jun	4803.10	4805.60	2.50	0.00	-4803.10	0.00	-4805.60	0.00	0.00
6	10-Jun	4805.43	4807.93	2.50	0.00	-4805.43	0.00	-4807.93	0.00	0.00
7	Outlet-Pipe	4800.00	4804.00	4.00	0.00	-4800.00	6.00	-4798.00	0.00	0.00
8	Pond-In	4801.00	4805.00	4.00	0.00	-4801.00	6.00	-4799.00	0.00	0.00
9	Pond-Out	4799.79	4801.00	1.21	0.00	-4799.79	6.00	-4795.00	0.00	0.00

Badger Creek Substation
25 Year 24 Hour Storm

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	1-Jun	1.24	1.24	4802.32	0.50	0.00	1.50	4801.89	0.07	0 12:00	0 00:00	0.00	0.00
2	2-Jun	1.23	0.00	4802.11	0.47	0.00	1.53	4801.68	0.04	0 12:00	0 00:00	0.00	0.00
3	7-Jun	14.54	4.99	4803.08	1.40	0.00	2.48	4801.71	0.03	0 12:00	0 00:00	0.00	0.00
4	8-Jun	9.72	5.12	4803.55	1.07	0.00	2.01	4802.51	0.03	0 12:00	0 00:00	0.00	0.00
5	9-Jun	4.75	3.58	4804.09	0.99	0.00	1.51	4803.12	0.02	0 12:00	0 00:00	0.00	0.00
6	10-Jun	1.28	1.28	4805.88	0.45	0.00	2.05	4805.44	0.01	0 12:00	0 00:00	0.00	0.00
7	Outlet-Pipe	0.36	0.00	4800.28	0.28	0.00	3.72	4800.10	0.10	0 16:08	0 00:00	0.00	0.00
8	Pond-In	17.55	3.09	4802.68	1.68	0.00	2.32	4801.31	0.31	0 12:00	0 00:00	0.00	0.00
9	Pond-Out	0.36	0.00	4800.10	0.31	0.00	0.90	4799.92	0.13	0 16:08	0 00:00	0.00	0.00

Badger Creek Substation
25 Year 24 Hour Storm

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	52.45	4801.85	0.03	4801.64	0.00	0.21	0.4000	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	874.53	0.00	-4801.64	0.00	-4798.00	0.00	0.0000	Dummy	0.000	0.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	86.45	0.00	-4801.00	0.00	-4800.30	0.00	0.0000	Dummy	0.000	0.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	Link-06	257.75	0.00	-4799.79	0.00	-4798.00	0.00	0.0000	Dummy	0.000	0.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
5	Outfall-Pipe	36.50	4799.97	-0.03	4799.82	0.03	0.15	0.4100	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
6	SD-1	80.00	4801.68	0.00	4801.28	0.28	0.40	0.5000	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	SD-2	160.09	4802.48	0.00	4801.68	0.00	0.80	0.5000	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	SD-3	125.21	4803.10	0.00	4802.48	0.00	0.62	0.5000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	SD-4	356.41	4805.43	0.00	4803.10	0.00	2.33	0.6500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Badger Creek Substation
25 Year 24 Hour Storm

Pipe Results

SN	Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
		(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1	Link-01	1.23	0 12:00	5.76	0.21	2.60	0.34	0.47	0.31	0.00		Calculated
2	Link-02	1.23	0 12:00	0.00	0.21	0.00		0.47	0.31	0.00		Calculated
3	Link-03	17.55	0 12:00	0.00	0.21	0.00		0.47	0.31	0.00		Calculated
4	Link-06	0.36	0 16:08	0.00	0.21	0.00		0.47	0.31	0.00		Calculated
5	Outfall-Pipe	0.36	0 16:08	2.17	0.17	2.05	0.30	0.28	0.28	0.00		Calculated
6	SD-1	14.54	0 12:00	17.33	0.84	6.18	0.22	1.39	0.70	0.00		Calculated
7	SD-2	9.70	0 12:00	17.32	0.56	5.68	0.47	1.06	0.54	0.00		Calculated
8	SD-3	4.73	0 12:00	4.92	0.96	4.60	0.45	0.97	0.79	0.00		Calculated
9	SD-4	1.24	0 12:01	3.12	0.40	3.81	1.56	0.43	0.44	0.00		Calculated

Storage Nodes

Storage Node : EDB-1

Input Data

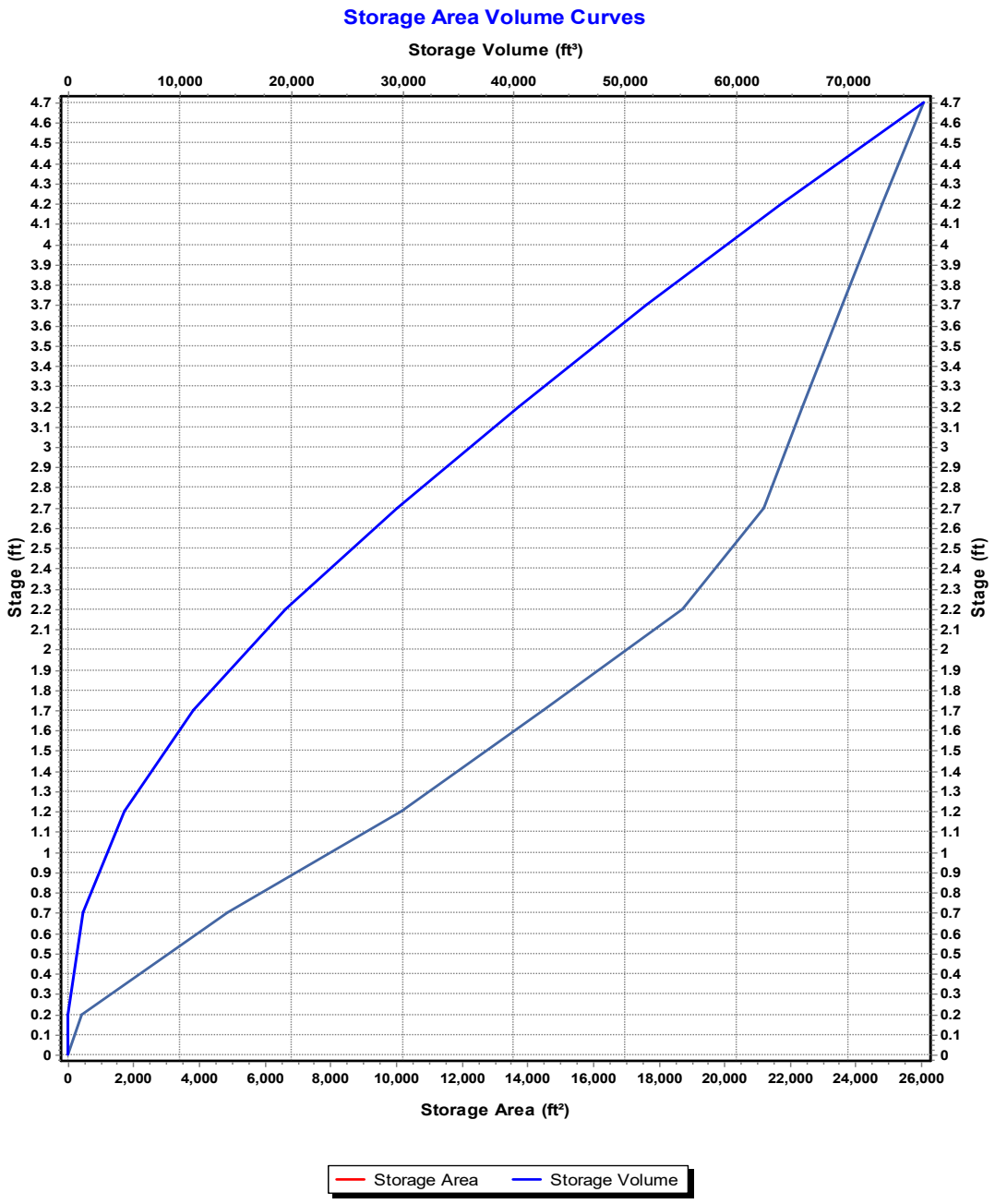
Invert Elevation (ft)	4800.30
Max (Rim) Elevation (ft)	4805.00
Max (Rim) Offset (ft)	4.70
Initial Water Elevation (ft)	0.00
Initial Water Depth (ft)	-4800.30
Ponded Area (ft²)	0.00
Evaporation Loss	0.00

Storage Area Volume Curves

Storage Curve : EDB-1

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	10	0
0.2	429	43.9
0.7	4861	1366.4
1.2	10158	5121.15
1.7	14506	11287.15
2.2	18733	19596.9
2.7	21200	29580.15
3.2	22394	40478.65
3.7	23594	51975.65
4.2	24822	64079.65
4.7	26078	76804.65

Badger Creek Substation
25 Year 24 Hour Storm



Storage Node : EDB-1 (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-01	Trapezoidal	No	4802.97	2.67	4.00	0.50	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-1	Side	CIRCULAR	No	1.00			4799.97	0.61
2	Orifice-2	Side	CIRCULAR	No	1.00			4800.47	0.61
3	Orifice-3	Side	CIRCULAR	No	1.25			4800.97	0.61
4	Orifice-4	Side	CIRCULAR	No	2.00			4801.47	0.61
5	Orifice-5	Side	CIRCULAR	No	2.00			4801.97	0.61

Output Summary Results

Peak Inflow (cfs)	17.55
Peak Lateral Inflow (cfs)	0
Peak Outflow (cfs)	0.36
Peak Exfiltration Flow Rate (cfm)	0
Max HGL Elevation Attained (ft)	4802.89
Max HGL Depth Attained (ft)	2.59
Average HGL Elevation Attained (ft)	4801.14
Average HGL Depth Attained (ft)	0.84
Time of Max HGL Occurrence (days hh:mm)	0 16:08
Total Exfiltration Volume (1000-ft^3)	0
Total Flooded Volume (ac-in)	0
Total Time Flooded (min)	0
Total Retention Time (sec)	0

Project Description

File Name 24211BadgerCreekDrainage-2.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... EPA SWMM
EPA SWMM Infiltration Method ..... SCS Curve Number
Link Routing Method ..... Kinematic Wave
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	0 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	30	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins.....	8
Nodes.....	12
Junctions	9
Outfalls	2
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links.....	15
Channels	0
Pipes	9
Pumps	0
Orifices	5
Weirs	1
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	100 Year	Cumulative	inches	Colorado	Morgan	100.00	4.49	SCS Type II 24-hr

Badger Creek Substation
100 Year 24 Hour Storm

Subbasin Summary

SN	Subbasin ID	Area	Impervious Area	Weighted Curve Number	Average Slope	Equivalent Width	Impervious Area Manning's Roughness	Pervious Area Manning's Roughness	Total Rainfall	Total Infiltration	Total Runoff	Total Runoff Volume	Peak Runoff	Time of Concentration
		(ac)	(%)		(%)	(ft)			(in)	(in)	(in)	(ac-in)	(cfs)	(days hh:mm:ss)
1	Existing	40.05	2.00	49.00	2.0000	3500.00	0.0150	0.1500	4.49	3.2280	1.21	48.58	23.57	0 01:18:11
2	P-East	9.74	2.00	49.00	0.5000	500.00	0.0150	0.1500	4.49	3.2970	1.14	11.14	2.48	0 02:43:04
3	Pond	0.69	25.00	100.00	0.5000	598.00	0.0150	0.1000	4.49	0.0760	4.26	2.94	4.18	0 00:19:58
4	P-West	24.86	2.00	49.23	0.5000	500.00	0.0150	0.1500	4.49	3.3980	1.04	25.93	4.36	0 04:46:06
5	Yard-1	1.58	20.00	76.00	1.0000	686.50	0.0150	0.0240	4.49	1.6090	2.83	4.47	7.38	0 00:10:50
6	Yard-2	1.62	20.00	76.00	1.0000	706.00	0.0150	0.0240	4.49	1.6090	2.83	4.58	7.57	0 00:10:49
7	Yard-3	1.17	20.00	76.00	1.0000	511.00	0.0150	0.0360	4.49	1.6100	2.85	3.33	5.34	0 00:13:47
8	Yard-4	0.40	20.00	76.00	1.5000	175.00	0.0150	0.0240	4.49	1.6080	2.83	1.13	1.88	0 00:09:33

Badger Creek Substation
100 Year 24 Hour Storm

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft^2)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	1-Jun	Junction	4801.82	4803.82	0.00	6.00	0.00	2.48	4802.54	0.00	1.28	0 00:00	0.00	0.00
2	2-Jun	Junction	4801.64	4803.64	0.00	6.00	0.00	2.47	4802.33	0.00	1.31	0 00:00	0.00	0.00
3	7-Jun	Junction	4801.68	4805.56	0.00	0.00	0.00	19.68	4805.56	0.00	0.00	0 12:00	0.11	6.00
4	8-Jun	Junction	4802.48	4805.56	0.00	0.00	0.00	12.49	4803.74	0.00	1.82	0 00:00	0.00	0.00
5	9-Jun	Junction	4803.10	4805.60	0.00	0.00	0.00	7.08	4805.60	0.00	0.00	0 12:00	0.18	10.00
6	10-Jun	Junction	4805.43	4807.93	0.00	0.00	0.00	1.88	4805.99	0.00	1.94	0 00:00	0.00	0.00
7	Outlet-Pipe	Junction	4800.00	4804.00	0.00	6.00	0.00	1.78	4800.69	0.00	3.31	0 00:00	0.00	0.00
8	Pond-In	Junction	4801.00	4805.00	0.00	6.00	0.00	21.91	4803.28	0.00	1.72	0 00:00	0.00	0.00
9	Pond-Out	Junction	4799.79	4801.00	0.00	6.00	0.00	1.78	4800.51	0.00	0.49	0 00:00	0.00	0.00
10	Out-Ex	Outfall	4798.00					23.57	4798.00					
11	Out-P	Outfall	4798.00					6.98	4798.00					
12	EDB-1	Storage Node	4800.30	4805.00	0.00		0.00	21.91	4803.18				0.00	0.00

Badger Creek Substation
100 Year 24 Hour Storm

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Reported Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Link-01	Pipe	1-Jun	2-Jun	52.45	4801.85	4801.64	0.4000	18.000	0.0150	2.47	5.76	0.43	3.14	0.69	0.46	0.00	Calculated
2	Link-02	Pipe	2-Jun	Out-P	874.53	0.00	0.00	0.0000	0.000	0.0150	2.47	0.00	0.43	0.00	0.69	0.46	0.00	Calculated
3	Link-03	Pipe	Pond-In	EDB-1	86.45	0.00	0.00	0.0000	0.000	0.0150	21.91	0.00	0.43	0.00	0.69	0.46	0.00	Calculated
4	Link-06	Pipe	Pond-Out	Out-P	257.75	0.00	0.00	0.0000	0.000	0.0150	1.78	0.00	0.43	0.00	0.69	0.46	0.00	Calculated
5	Outfall-Pipe	Pipe	Outlet-Pipe	Pond-Out	36.50	4799.97	4799.82	0.4100	12.000	0.0150	1.78	2.17	0.82	3.08	0.69	0.69	0.00	Calculated
6	SD-1	Pipe	7-Jun	Pond-In	80.00	4801.68	4801.28	0.5000	24.000	0.0120	18.22	17.33	1.05	6.37	2.00	1.00	3.00	SURCHARGED
7	SD-2	Pipe	8-Jun	7-Jun	160.09	4802.48	4801.68	0.5000	24.000	0.0120	12.39	17.32	0.72	6.02	1.25	0.63	0.00	Calculated
8	SD-3	Pipe	9-Jun	8-Jun	125.21	4803.10	4802.48	0.5000	15.000	0.0120	5.25	4.92	1.07	4.79	1.25	1.00	8.00	SURCHARGED
9	SD-4	Pipe	10-Jun	9-Jun	356.41	4805.43	4803.10	0.6500	12.000	0.0120	1.83	3.12	0.59	4.21	0.55	0.55	0.00	Calculated
10	Orifice-1	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		1.000		0.05							
11	Orifice-2	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		1.000		0.04							
12	Orifice-3	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		1.250		0.06							
13	Orifice-4	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		2.000		0.14							
14	Orifice-5	Orifice	EDB-1	Outlet-Pipe		4800.30	4800.00		2.000		0.11							
15	Weir-01	Weir	EDB-1	Outlet-Pipe		4800.30	4800.00				1.38							

Subbasin Hydrology

Subbasin : Existing

Input Data

Area (ac)	40.05
Impervious Area (%)	2
Weighted Curve Number	49
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	2
Equivalent Width (ft)	3500
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.15
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Pasture, grassland, or range, Fair	40.05	A	49
Composite Area & Weighted CN	40.05		49

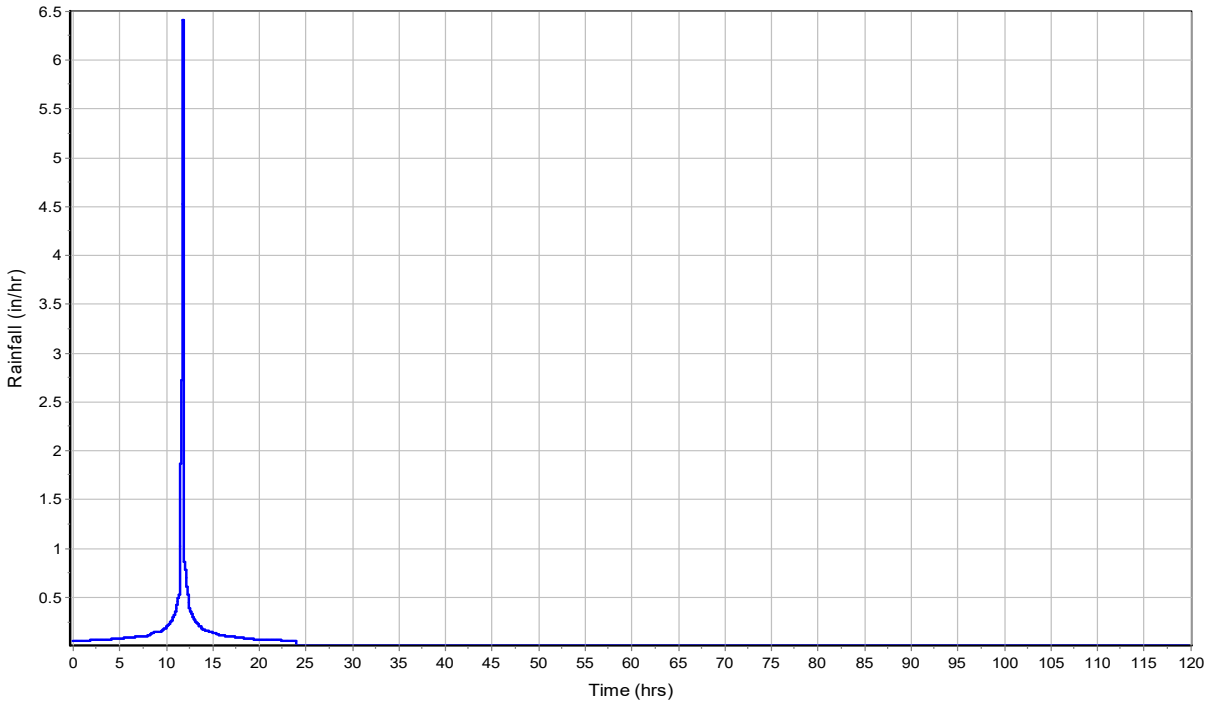
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	3.228
Total Runoff (in)	1.21
Peak Runoff (cfs)	23.57
Weighted Curve Number	49
Time of Concentration (days hh:mm:ss)	0 01:18:11

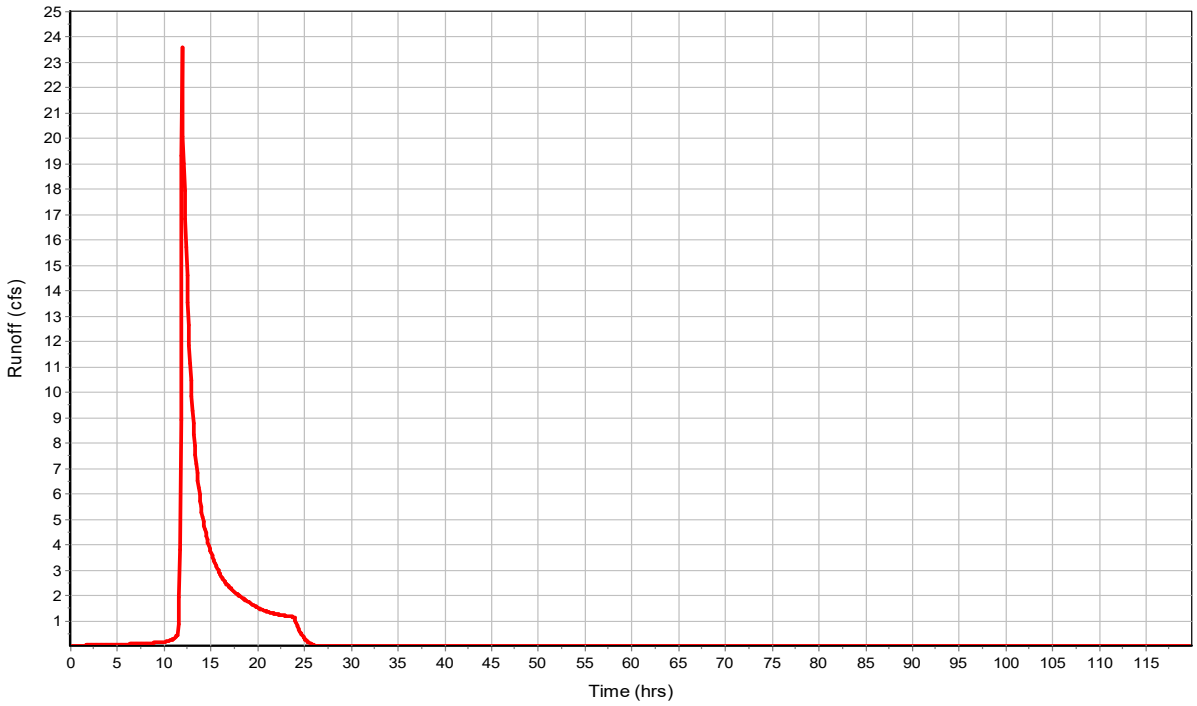
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : Existing

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : P-East

Input Data

Area (ac)	9.74
Impervious Area (%)	2
Weighted Curve Number	49
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	0.5
Equivalent Width (ft)	500
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.15
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	9.74	-	49
Composite Area & Weighted CN	9.74		49

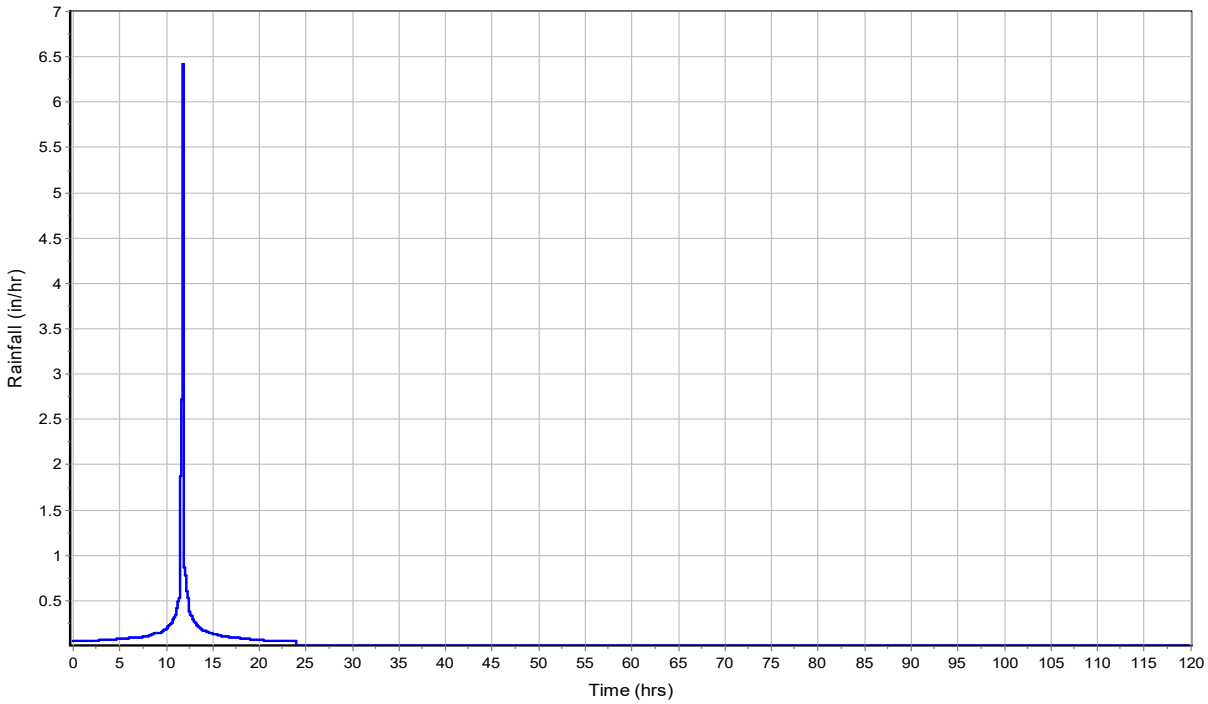
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	3.297
Total Runoff (in)	1.14
Peak Runoff (cfs)	2.48
Weighted Curve Number	49
Time of Concentration (days hh:mm:ss)	0 02:43:04

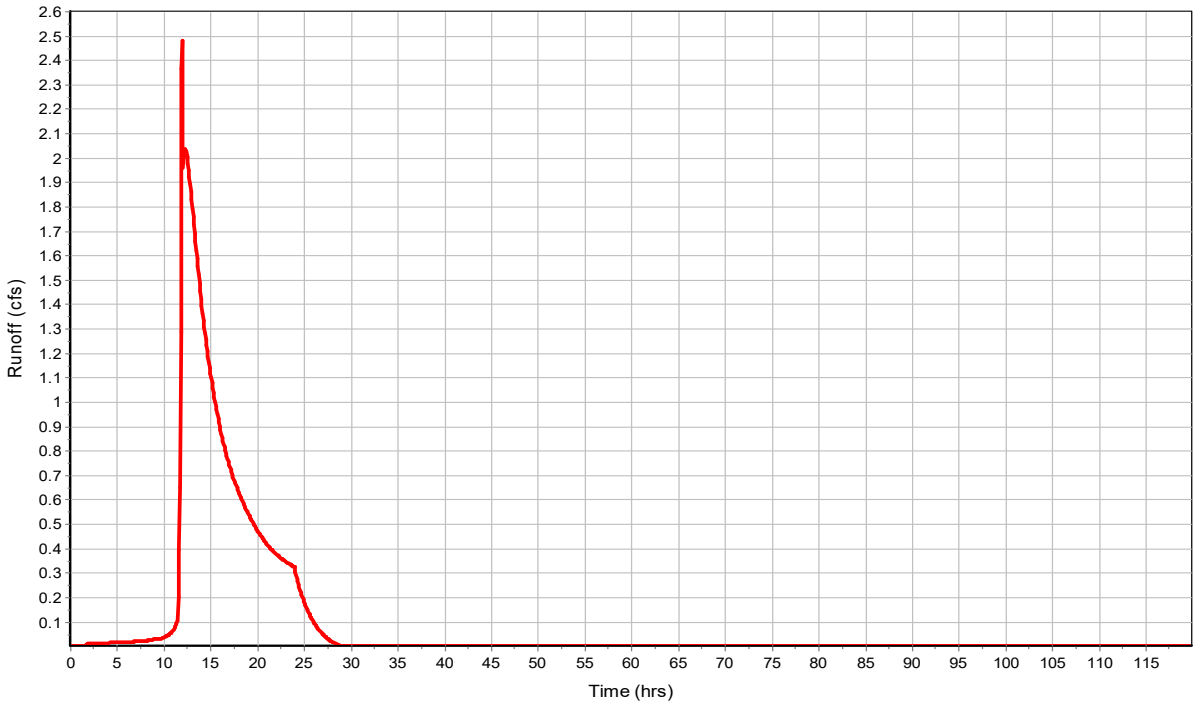
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : P-East

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Pond

Input Data

Area (ac)	0.69
Impervious Area (%)	25
Weighted Curve Number	100
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	0.5
Equivalent Width (ft)	598
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.69	-	100
Composite Area & Weighted CN	0.69		100

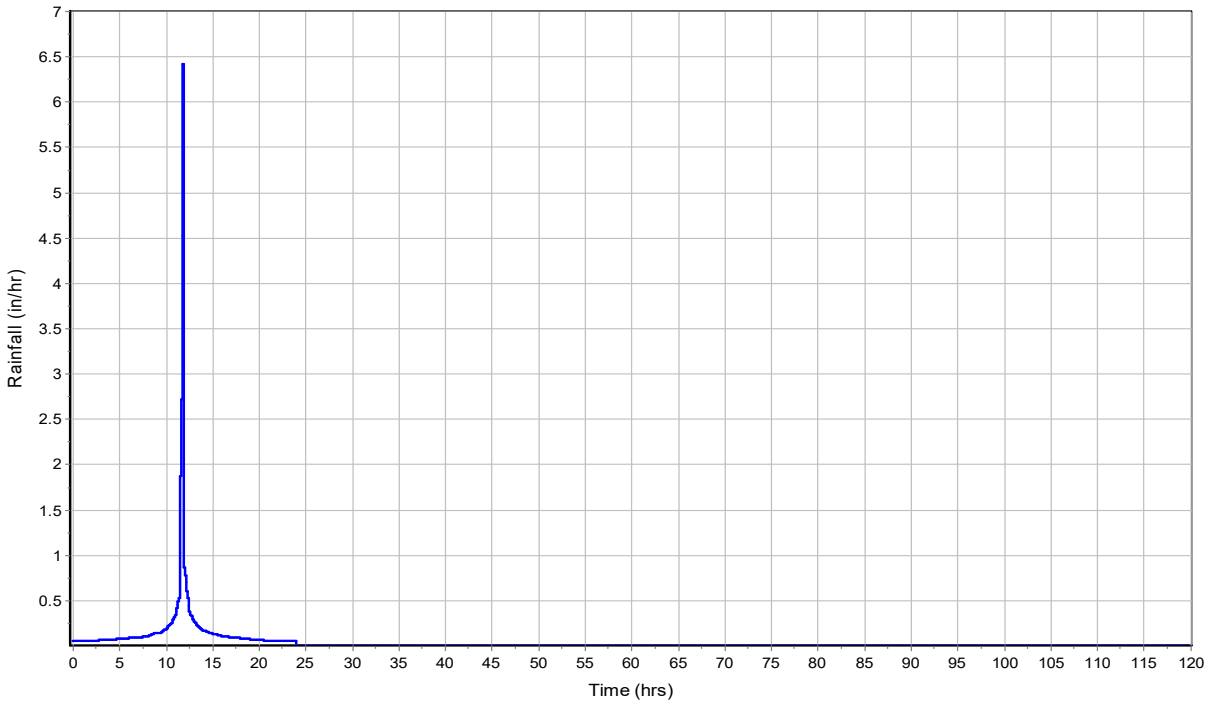
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	0.076
Total Runoff (in)	4.26
Peak Runoff (cfs)	4.18
Weighted Curve Number	100
Time of Concentration (days hh:mm:ss)	0 00:19:58

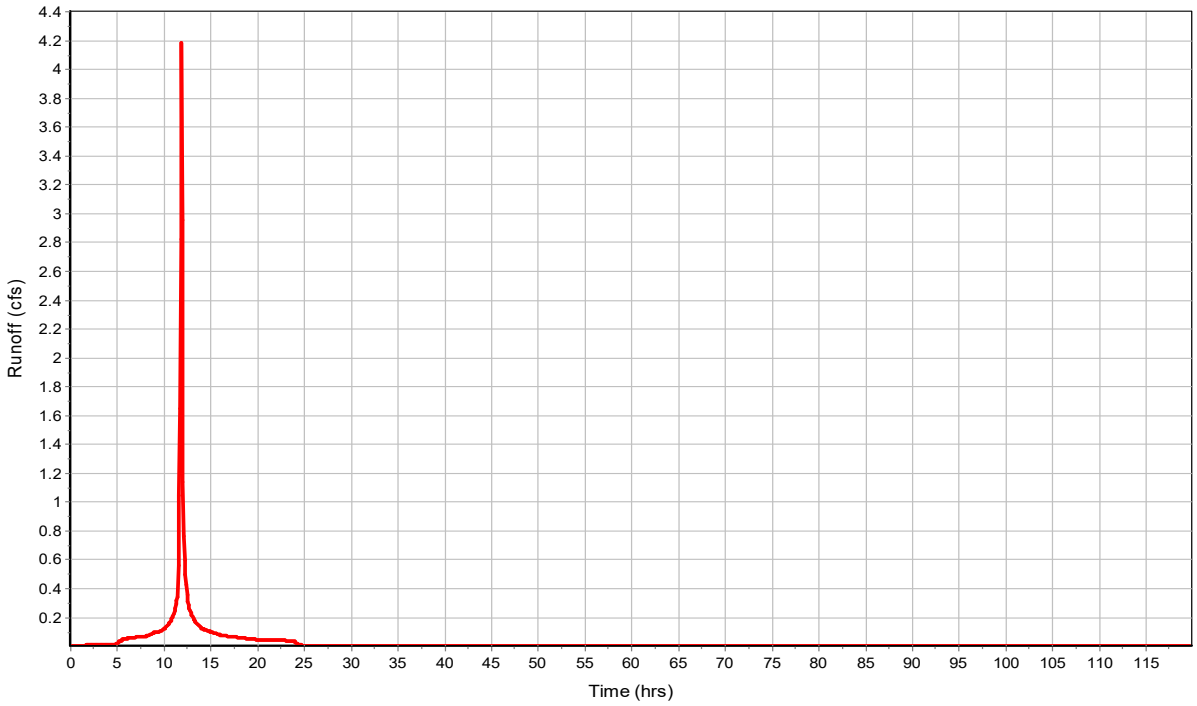
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : Pond

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : P-West

Input Data

Area (ac)	24.86
Impervious Area (%)	2
Weighted Curve Number	49.23
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	0.5
Equivalent Width (ft)	500
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.15
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	25.07	-	49.23
Composite Area & Weighted CN	25.07		49.23

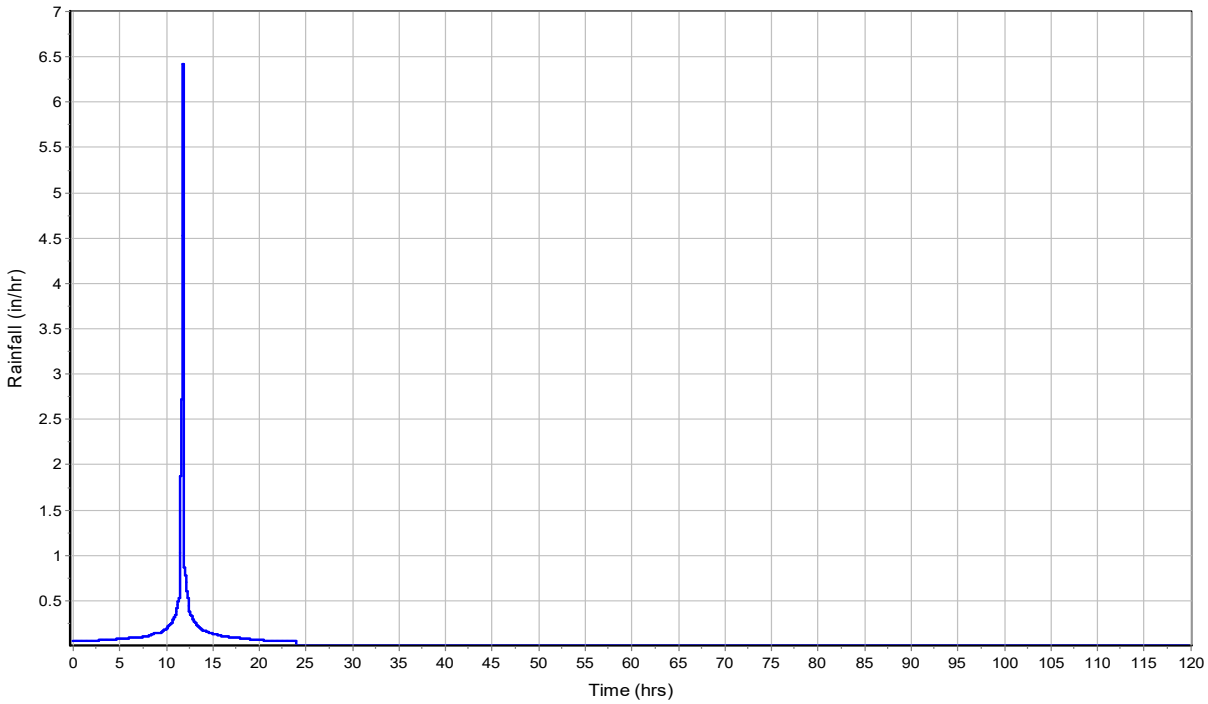
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	3.398
Total Runoff (in)	1.04
Peak Runoff (cfs)	4.36
Weighted Curve Number	49.23
Time of Concentration (days hh:mm:ss)	0 04:46:06

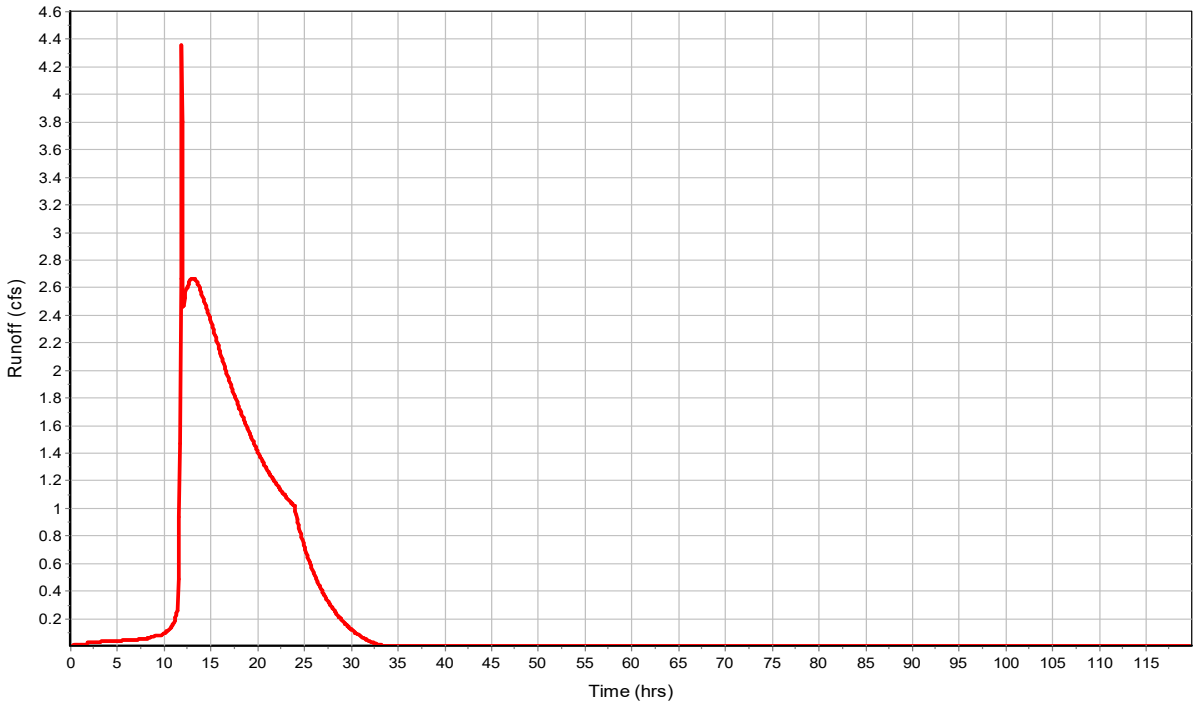
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : P-West

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-1

Input Data

Area (ac)	1.58
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1
Equivalent Width (ft)	686.5
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.024
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	5.25	-	76
Composite Area & Weighted CN	5.25		76

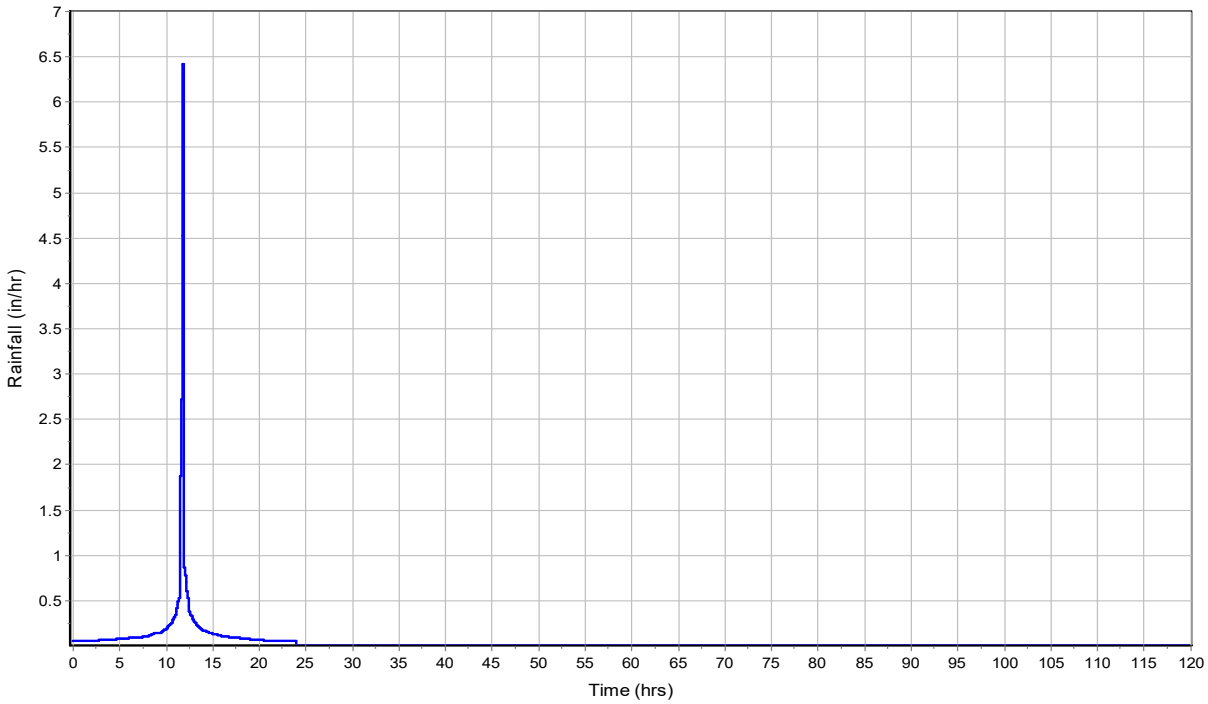
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.609
Total Runoff (in)	2.83
Peak Runoff (cfs)	7.38
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:10:50

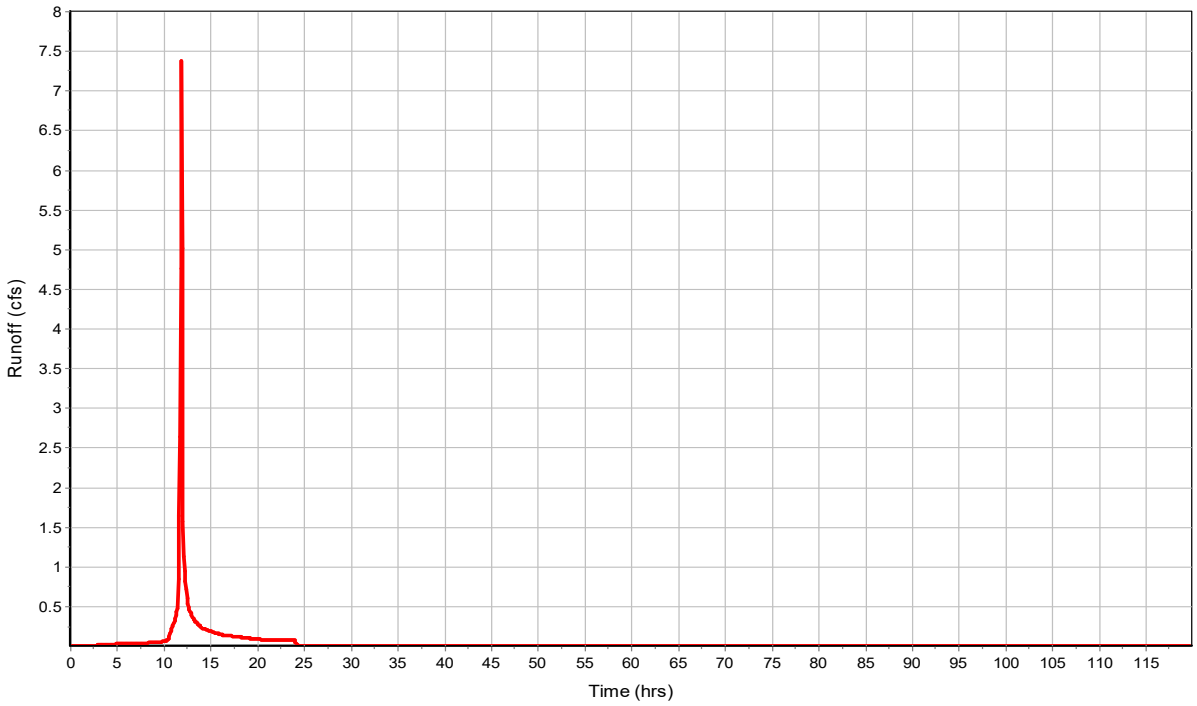
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : Yard-1

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-2

Input Data

Area (ac)	1.62
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1
Equivalent Width (ft)	706
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.024
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	1.62	-	76
Composite Area & Weighted CN	1.62		76

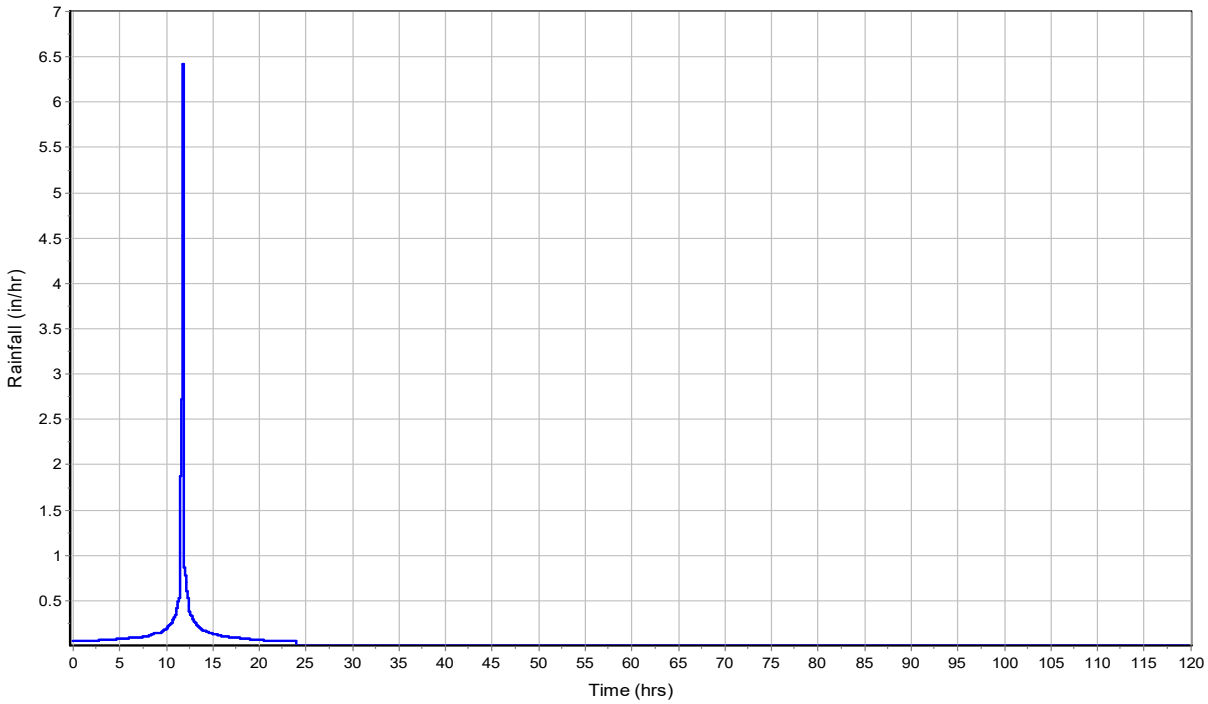
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.609
Total Runoff (in)	2.83
Peak Runoff (cfs)	7.57
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:10:49

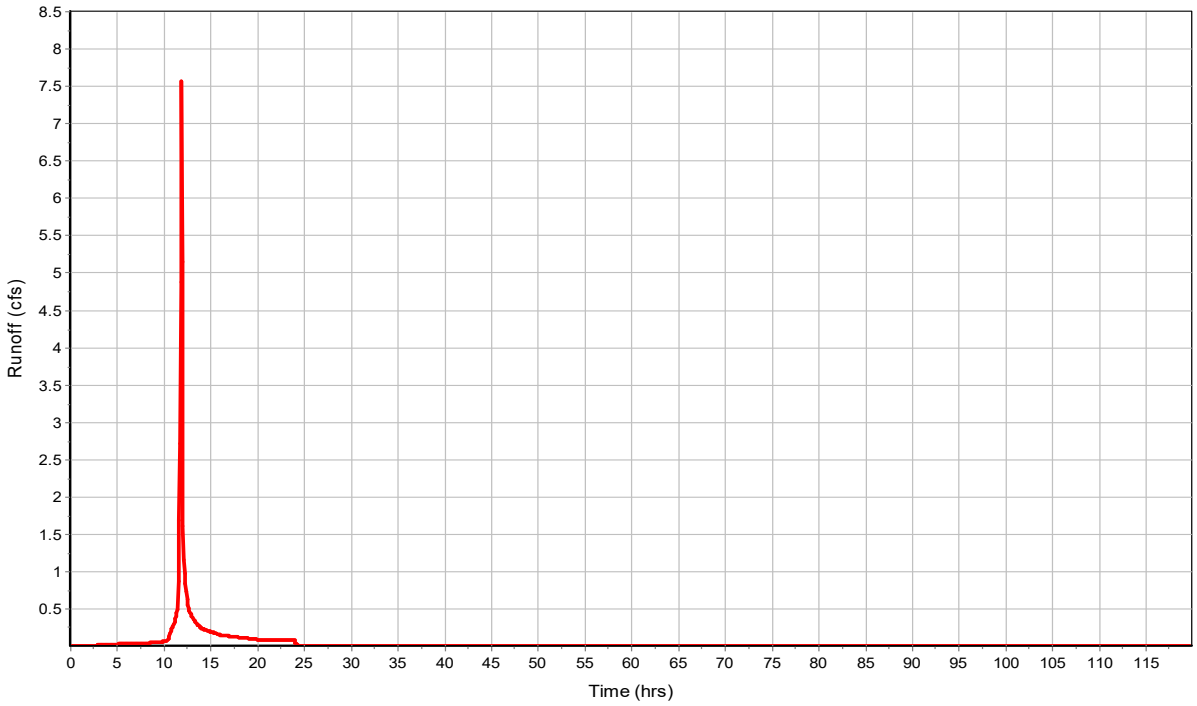
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : Yard-2

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-3

Input Data

Area (ac)	1.17
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1
Equivalent Width (ft)	511
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.036
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	1.17	-	76
Composite Area & Weighted CN	1.17		76

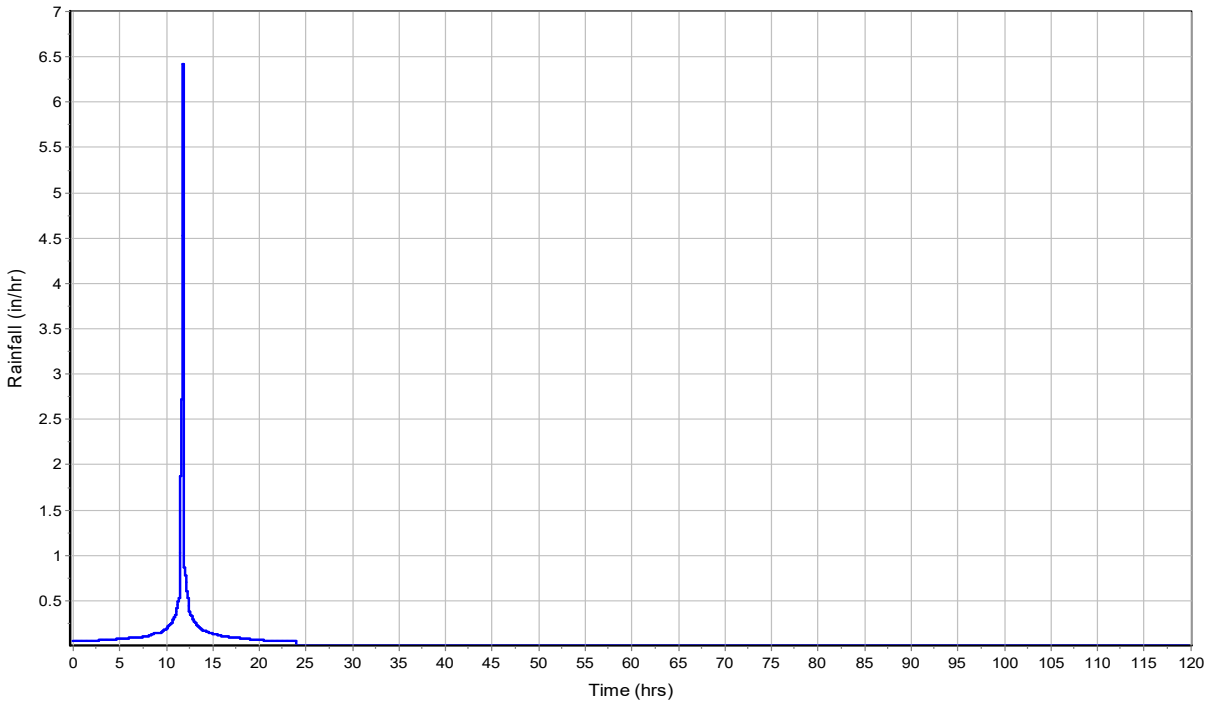
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.61
Total Runoff (in)	2.85
Peak Runoff (cfs)	5.34
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:13:47

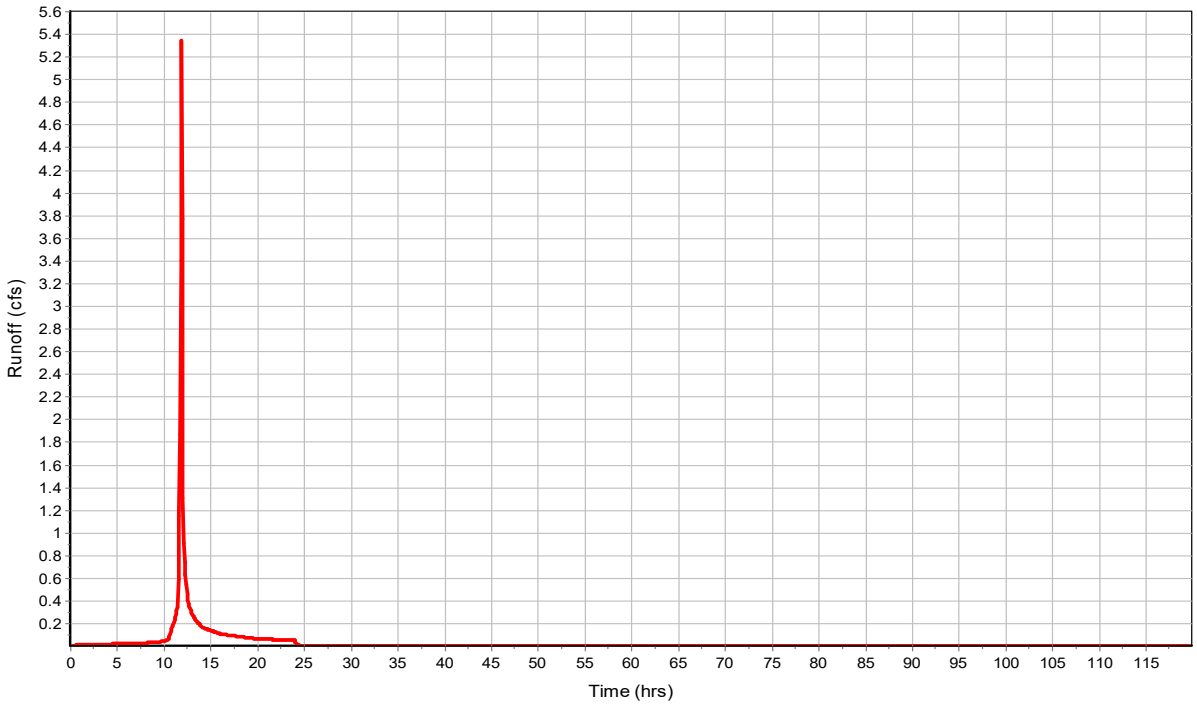
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : Yard-3

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Yard-4

Input Data

Area (ac)	0.4
Impervious Area (%)	20
Weighted Curve Number	76
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	1.5
Equivalent Width (ft)	175
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.024
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.4	-	76
Composite Area & Weighted CN	0.4		76

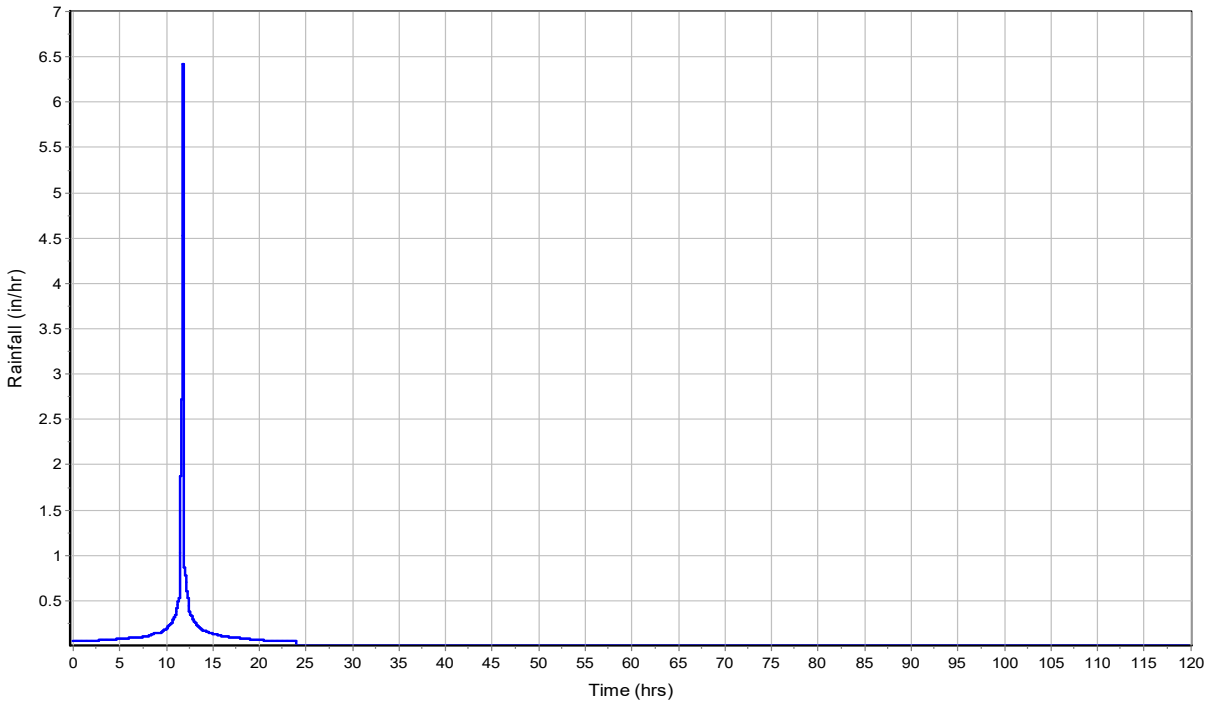
Subbasin Runoff Results

Total Rainfall (in)	4.49
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.608
Total Runoff (in)	2.83
Peak Runoff (cfs)	1.88
Weighted Curve Number	76
Time of Concentration (days hh:mm:ss)	0 00:09:33

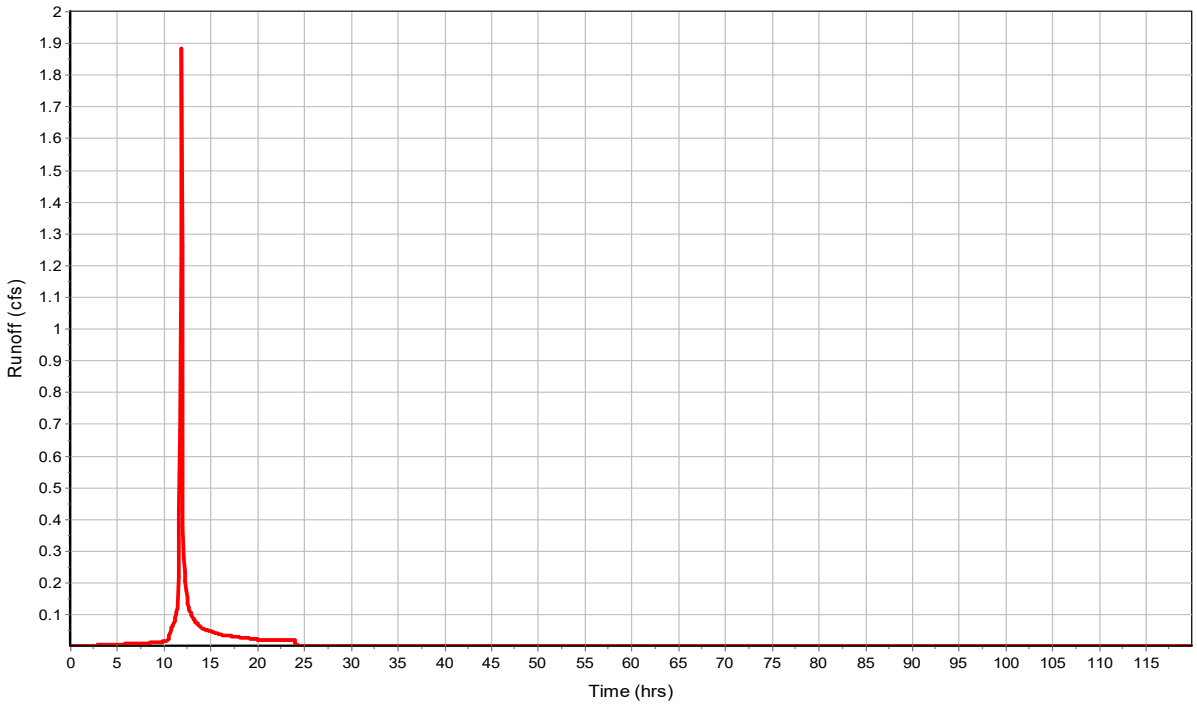
Badger Creek Substation
100 Year 24 Hour Storm

Subbasin : Yard-4

Rainfall Intensity Graph



Runoff Hydrograph



Badger Creek Substation
100 Year 24 Hour Storm

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft^2)	Minimum Pipe Cover (in)
1	1-Jun	4801.82	4803.82	2.00	0.00	-4801.82	6.00	-4797.82	0.00	0.00
2	2-Jun	4801.64	4803.64	2.00	0.00	-4801.64	6.00	-4797.64	0.00	0.00
3	7-Jun	4801.68	4805.56	3.88	0.00	-4801.68	0.00	-4805.56	0.00	0.00
4	8-Jun	4802.48	4805.56	3.08	0.00	-4802.48	0.00	-4805.56	0.00	0.00
5	9-Jun	4803.10	4805.60	2.50	0.00	-4803.10	0.00	-4805.60	0.00	0.00
6	10-Jun	4805.43	4807.93	2.50	0.00	-4805.43	0.00	-4807.93	0.00	0.00
7	Outlet-Pipe	4800.00	4804.00	4.00	0.00	-4800.00	6.00	-4798.00	0.00	0.00
8	Pond-In	4801.00	4805.00	4.00	0.00	-4801.00	6.00	-4799.00	0.00	0.00
9	Pond-Out	4799.79	4801.00	1.21	0.00	-4799.79	6.00	-4795.00	0.00	0.00

Badger Creek Substation
100 Year 24 Hour Storm

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	1-Jun	2.48	2.48	4802.54	0.72	0.00	1.28	4801.90	0.08	0 12:05	0 00:00	0.00	0.00
2	2-Jun	2.47	0.00	4802.33	0.69	0.00	1.31	4801.69	0.05	0 12:05	0 00:00	0.00	0.00
3	7-Jun	19.68	7.38	4805.56	3.88	0.00	0.00	4801.72	0.04	0 11:58	0 12:00	0.11	6.00
4	8-Jun	12.49	7.57	4803.74	1.26	0.00	1.82	4802.51	0.03	0 12:00	0 00:00	0.00	0.00
5	9-Jun	7.08	5.34	4805.60	2.50	0.00	0.00	4803.13	0.03	0 11:56	0 12:00	0.18	10.00
6	10-Jun	1.88	1.88	4805.99	0.56	0.00	1.94	4805.44	0.01	0 12:00	0 00:00	0.00	0.00
7	Outlet-Pipe	1.78	0.00	4800.69	0.69	0.00	3.31	4800.12	0.12	0 12:46	0 00:00	0.00	0.00
8	Pond-In	21.91	4.18	4803.28	2.28	0.00	1.72	4801.32	0.32	0 11:59	0 00:00	0.00	0.00
9	Pond-Out	1.78	0.00	4800.51	0.72	0.00	0.49	4799.94	0.15	0 12:46	0 00:00	0.00	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	52.45	4801.85	0.03	4801.64	0.00	0.21	0.4000	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	874.53	0.00	-4801.64	0.00	-4798.00	0.00	0.0000	Dummy	0.000	0.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	86.45	0.00	-4801.00	0.00	-4800.30	0.00	0.0000	Dummy	0.000	0.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	Link-06	257.75	0.00	-4799.79	0.00	-4798.00	0.00	0.0000	Dummy	0.000	0.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
5	Outfall-Pipe	36.50	4799.97	-0.03	4799.82	0.03	0.15	0.4100	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
6	SD-1	80.00	4801.68	0.00	4801.28	0.28	0.40	0.5000	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	SD-2	160.09	4802.48	0.00	4801.68	0.00	0.80	0.5000	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	SD-3	125.21	4803.10	0.00	4802.48	0.00	0.62	0.5000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	SD-4	356.41	4805.43	0.00	4803.10	0.00	2.33	0.6500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Badger Creek Substation
100 Year 24 Hour Storm

Pipe Results

SN	Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
		(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1	Link-01	2.47	0 12:05	5.76	0.43	3.14	0.28	0.69	0.46	0.00		Calculated
2	Link-02	2.47	0 12:05	0.00	0.43	0.00		0.69	0.46	0.00		Calculated
3	Link-03	21.91	0 12:02	0.00	0.43	0.00		0.69	0.46	0.00		Calculated
4	Link-06	1.78	0 12:46	0.00	0.43	0.00		0.69	0.46	0.00		Calculated
5	Outfall-Pipe	1.78	0 12:46	2.17	0.82	3.08	0.20	0.69	0.69	0.00		Calculated
6	SD-1	18.22	0 12:02	17.33	1.05	6.37	0.21	2.00	1.00	3.00		SURCHARGED
7	SD-2	12.39	0 12:00	17.32	0.72	6.02	0.44	1.25	0.63	0.00		Calculated
8	SD-3	5.25	0 12:05	4.92	1.07	4.79	0.44	1.25	1.00	8.00		SURCHARGED
9	SD-4	1.83	0 12:01	3.12	0.59	4.21	1.41	0.55	0.55	0.00		Calculated

Storage Nodes

Storage Node : EDB-1

Input Data

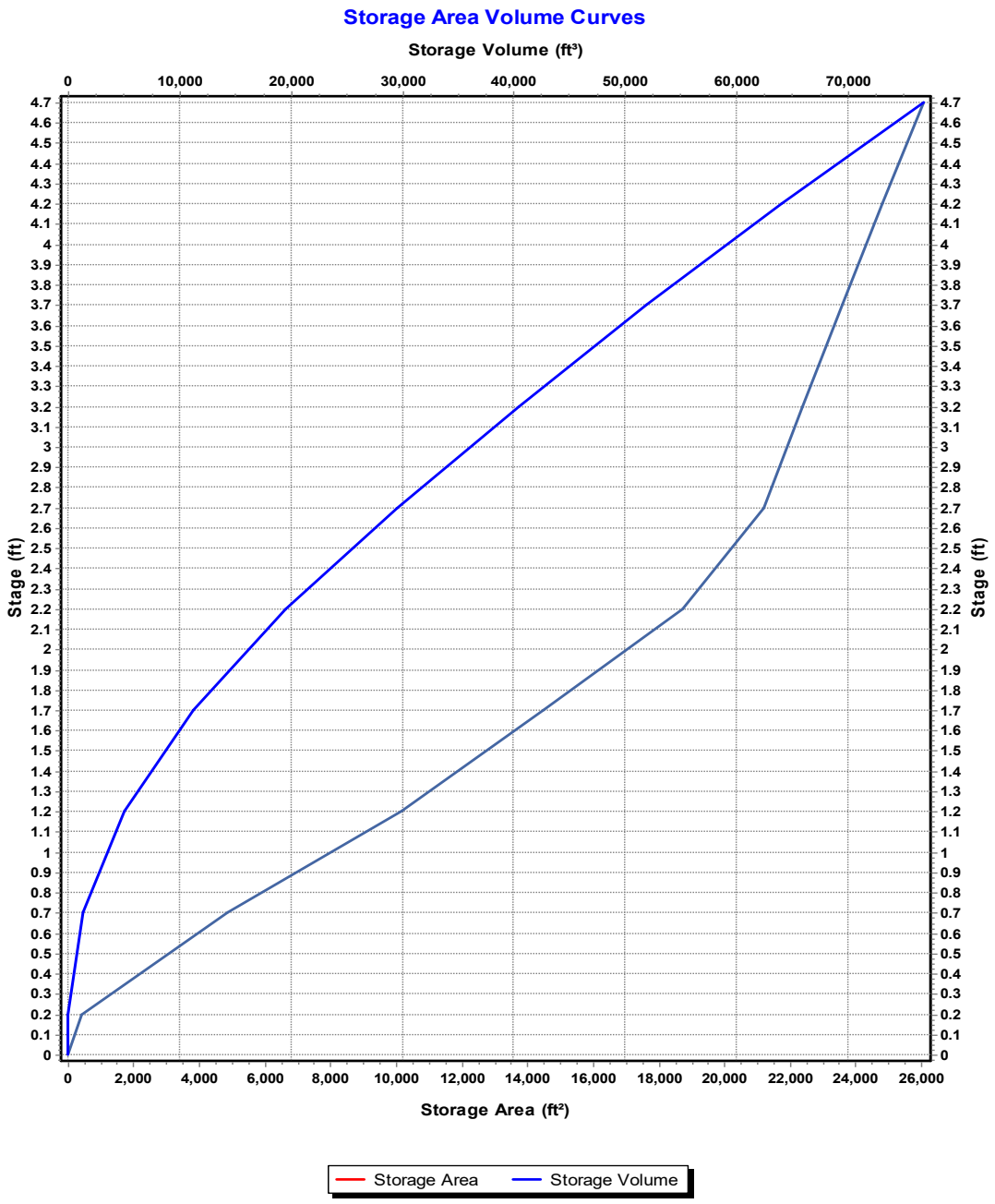
Invert Elevation (ft)	4800.30
Max (Rim) Elevation (ft)	4805.00
Max (Rim) Offset (ft)	4.70
Initial Water Elevation (ft)	0.00
Initial Water Depth (ft)	-4800.30
Ponded Area (ft²)	0.00
Evaporation Loss	0.00

Storage Area Volume Curves

Storage Curve : EDB-1

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	10	0
0.2	429	43.9
0.7	4861	1366.4
1.2	10158	5121.15
1.7	14506	11287.15
2.2	18733	19596.9
2.7	21200	29580.15
3.2	22394	40478.65
3.7	23594	51975.65
4.2	24822	64079.65
4.7	26078	76804.65

Badger Creek Substation
100 Year 24 Hour Storm



Storage Node : EDB-1 (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-01	Trapezoidal	No	4802.97	2.67	4.00	0.50	3.33

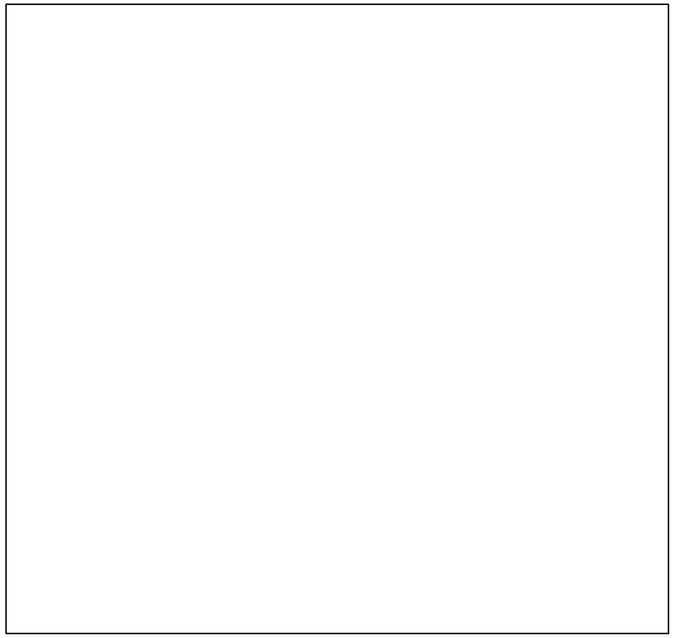
Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-1	Side	CIRCULAR	No	1.00			4799.97	0.61
2	Orifice-2	Side	CIRCULAR	No	1.00			4800.47	0.61
3	Orifice-3	Side	CIRCULAR	No	1.25			4800.97	0.61
4	Orifice-4	Side	CIRCULAR	No	2.00			4801.47	0.61
5	Orifice-5	Side	CIRCULAR	No	2.00			4801.97	0.61

Output Summary Results

Peak Inflow (cfs)	21.91
Peak Lateral Inflow (cfs)	0
Peak Outflow (cfs)	1.78
Peak Exfiltration Flow Rate (cfm)	0
Max HGL Elevation Attained (ft)	4803.18
Max HGL Depth Attained (ft)	2.88
Average HGL Elevation Attained (ft)	4801.24
Average HGL Depth Attained (ft)	0.94
Time of Max HGL Occurrence (days hh:mm)	0 12:46
Total Exfiltration Volume (1000-ft^3)	0
Total Flooded Volume (ac-in)	0
Total Time Flooded (min)	0
Total Retention Time (sec)	0

APPENDIX H BADGER CREEK SWITCHING STATION CIVIL DESIGN



VICINITY MAP
N.T.S.

Site Coordinates (Lat/Long): 40.07172, -103.95228
Address: TBD CR F, FORT MORGAN, CO 80701

TRI-STATE

Generation and Transmission
Association, Inc.

Badger Creek Substation
Construction of a New Electrical Substation
including Grading, Drainage, and Surface Improvements
Morgan County, Colorado

Construction Plans prepared in cooperation with:

DEL-MONT CONSULTANTS, INC.
ENGINEERING ▼ SURVEYING
125 Colorado Ave.▼ Montrose, CO 81401 ▼ (970) 249-2251
www.del-mont.com ▼ service@del-mont.com

PRELIMINARY

No.	Date	Dwn.	Appd.	Revision
7				
6				
5				
4				
3				
2				
1				

M.F.

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

BADGER CREEK SUBSTATION
230 KV
COVER SHEET
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

PATH: \\DNAS1\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-001

GENERAL NOTES:

1. THE OWNER (TSGT) WILL PROVIDE THE CONTRACTOR WITH DOCUMENTATION NECESSARY TO RECOVER THE SURVEY MONUMENTS TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION STAKING WITH THE RESIDENT PROJECT REPRESENTATIVE.

2. THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT THE DURATION OF IMPACT TO ADJACENT PUBLIC ROADS AND RIGHTS-OF-WAY IS MINIMIZED.

3. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT HIS PERSONNEL AND SUBCONTRACTOR PERSONNEL ARE AWARE OF PROPER SAFETY PROCEDURES

4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WATER NECESSARY FOR CONSTRUCTION.

5. THE CONTRACTOR SHALL INFORM THE OWNER OF DAILY WORK ACTIVITIES AND LOCATIONS IN GENERAL. THIS DAILY PLANNING SHALL INCLUDE A DISCUSSION OF SPECIFIC SAFETY MEASURES TO BE TAKEN DURING THE DAY'S WORK.

6. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND THE TESTING LABORATORY TO FACILITATE OWNER'S MANAGEMENT AND QUALITY CONTROL OF THE PROJECT CONSTRUCTION.

7. THE CIVIL WORKS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN PROJECT OFFICE, TOILET FACILITIES AND ALL OTHER NECESSARY BUILDINGS OR SHELTERS. THE OWNER WILL NOT PROVIDE ANY FACILITIES TO THE CONTRACTOR DURING CONSTRUCTION. ALL FACILITIES AND SERVICES FOR THE RESIDENT PROJECT REPRESENTATIVE(RPR) SHALL BE PROVIDED BY THE CIVIL WORKS CONTRACTOR AND SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS ON THIS PROJECT. THE CONTRACTOR SHALL PROVIDE LOCKABLE AND SEPARATE OFFICE SPACE FOR THE RPR; FAX MACHINE WITH SUPPLIES AND DEDICATED SERVICE, COPY MACHINE AND SUPPLIES, OFFICE DESK, FILING CABINETS, DRAFTING TABLE, MEETING TABLE, CHAIRS, ENTRANCE STEPS, AIR CONDITIONING/HEATING, AND INSIDE TOILET. TOILET FACILITIES SHALL BE MAINTAINED IN WORKING CONDITION BY THE CONTRACTOR AT ALL TIMES.

8. THE CONTRACTOR'S PROJECT MANAGER SHALL ATTEND ALL SCHEDULED ROUTINE PROGRESS MEETINGS DURING THE DURATION OF THE PROJECT, AND PROVIDE UPDATED SCHEDULES AS REQUESTED. WEEKLY PROGRESS MEETINGS ARE MANDATORY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR WILL BE REQUIRED TO WORK WITH ALL DUE CAUTION IN THE AREAS OF THE LOCATED UNDERGROUND UTILITIES IN ORDER TO AVOID DAMAGING SAID UTILITIES. IN THE EVENT OF UTILITY DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING IMMEDIATE REPAIRS AND NOTIFICATION OF THE PROPER AUTHORITIES AND SERVICE PROVIDERS.

10. THE CONTRACTOR SHALL SUBMIT HIS CONSTRUCTION WORK SCHEDULE TO THE OWNER PROJECTING HIS UPCOMING WORK FOR THE NEXT THREE WEEKS. THE OWNER SHALL REVIEW THIS PLAN WEEKLY WITH THE CONTRACTOR SO THAT EVERYONE IS AWARE OF UPCOMING CONSTRUCTION EVENTS.

11. THE CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE CONSTRUCTION WORK AREA. THE CONTRACTOR SHALL PERFORM CLEAN-UP OPERATIONS ON A DAILY BASIS.

12. THE CONTRACTOR SHALL HAVE SUFFICIENT EQUIPMENT AND PERSONNEL ON SITE TO ACCOMPLISH EFFICIENT AND PROMPT CONSTRUCTION OF THE VARIOUS WORK ITEMS, INCLUDING WORK ON MORE THAN ONE WORK ITEM SIMULTANEOUSLY.

13. NO TRENCHES IN OR DIRECTLY ADJACENT TO OPERATIONAL PAVEMENT SHALL REMAIN OPEN OVERNIGHT OR WHEN THE CONTRACTOR FINISHES WORK FOR THE DAY IN THE AREA. TRENCHES NOT BACKFILLED SHALL BE COVERED WITH STEEL PLATES TO ALLOW FOR SAFE PASSAGES BY VEHICLES ACROSS THE TRENCH, IF APPROVED BY THE OWNER.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING FACILITIES NOT DESIGNATED FOR RECONSTRUCTION OR REPLACEMENT, AT HIS EXPENSE.

15. DAMAGE TO EXISTING PAVEMENTS DUE TO MOVING OR USAGE OF HEAVY EQUIPMENT OR THE TRANSPORT OF MATERIALS TO OR ON THE SITE SHALL BE REPAIRED TO EQUAL OR BETTER QUALITY BY THE CONTRACTOR AT HIS EXPENSE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIR OF ANY DAMAGE TO UNDERGROUND CABLES ENCOUNTERED.

17. ALL ABOVE GROUND AND GROUND LEVEL ELECTRICAL RELATED APPURTENANCES (I.E., LIGHTS, CABLE BOXES, CABLE AND/OR DUCT MARKERS, TELEPHONE PEDESTALS, UTILITY POLES, CONDUIT, ETC.) SHALL BE PROTECTED AT ALL TIMES. ANY DAMAGE DONE TO SAID APPURTENANCES BY THE CONTRACTOR SHALL BE REPAIRED TO LIKE QUALITY AT THE CONTRACTOR'S EXPENSE. THE REPAIRS SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER'S PROJECT MANAGER, AND ANY RESPONSIBLE UTILITY PROVIDER.

18. CONSTRUCTION WORKERS WILL NOT BE ALLOWED TO ESTABLISH OVERNIGHT RESIDENCE ON THE PREMISES. ALL CONSTRUCTION WORKERS SHALL LEAVE THE CONSTRUCTION SITE AT THE END OF THEIR WORK PERIOD.

19. WORK CANNOT COMMENCE UNTIL:

    19.1. THE CONTRACTOR'S STORMWATER MANAGEMENT PERIMETER CONTROLS INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE AND DISCHARGE POINT CONTROLS ARE IN PLACE.

    19.2. ALL SAFETY EQUIPMENT FOR PERSONNEL AND CONSTRUCTION EQUIPMENT IS IN PLACE AND OPERABLE.

20. A COMPLETE PROJECT SCHEDULE IS TO BE SUBMITTED WITHIN 10 DAYS OF NOTICE TO PROCEED.

21. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND RESTRICTIONS FOR SERVICING AND MAINTAINING EQUIPMENT AND DISPOSAL OF USED LUBRICANTS, ETC.

EMBANKMENT AND GRADING NOTES:

1. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING EXISTING PAVEMENT THAT MUST REMAIN IN SERVICE. DAMAGE MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. DESIGN CONTOURS AND SPOT ELEVATIONS SHOWN IN PLANS REPRESENT FINAL FINISHED SURFACE ELEVATIONS UNLESS OTHERWISE NOTED.

3. ESTIMATED QUANTITIES OF EXCAVATION AND EMBANKMENT IN THESE PLANS WERE CALCULATED BASED ON THE REMOVAL OF 6" OF TOPSOIL WITH AN ASSUMED SETTLEMENT OF 0%.

4. QUANTITIES OF EXCAVATION AND EMBANKMENT TO BE MEASURED AND PAID FOR WILL BE BASED ON THE PLAN QUANTITIES ON THIS SHEET. THE METHOD OF COMPUTATION FOR QUANTITIES, WAS BASED ON A PRISMOIDAL VOLUMETRIC COMPUTATION VALIDATED THROUGH AVERAGE END AREA OF CROSS SECTIONS WITH ALLOWANCE FOR MATERIAL DEFORMATION THROUGH THE PROCESS OF EXCAVATION AND PLACEMENT .

5. EXCAVATED ROCK (8" DIAMETER AND GREATER) MAY BE USED ONLY IN LOWER LEVELS OR OUTER PORTIONS OF FILLS, NOT LIKELY TO RECEIVE TRAFFIC, SUBJECT TO THE OWNER'S APPROVAL. THE MAXIMUM ALLOWABLE SIZE OF MATERIAL IN THE TOP 6" OF SUBGRADE IS 4" DIAMETER.

6. EARTHEN EMBANKMENTS AND TRENCH BACKFILL SHALL BE PLACED IN ACCORDANCE WITH TSGT SPECIFICATIONS.

7. SOIL MATERIAL, OTHER THAN TOPSOIL, FOUND UNFIT FOR USE IN THE CONSTRUCTION OF EMBANKMENTS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.

8. EXPOSED SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO THE DEPTH REQUIREMENTS IN THE PROJECT SPECIFICATIONS, PRIOR TO BEGINNING PLACEMENT OF EMBANKMENT LIFTS AND BASE MATERIAL. RECOMPACTION SHALL COMPLY WITH THE COMPACTION REQUIREMENTS IN THE PROJECT SPECIFICATIONS.

9. OVERALL ACCESS ROAD EXCAVATION AND EXCAVATION OF THE DETENTION POND ARE INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITY.

10. APPROPRIATE GRADING SHALL BE DONE AROUND EACH END OF CULVERTS AND HEADWALLS TO INSURE THAT RUNOFF IS PROPERLY CHANNELED INTO AND OUT OF THE CULVERTS.

11. THE GRADES AND SLOPES FOR THE CONSTRUCTION REPRESENTED IN THESE PLANS ARE NECESSARY TO PROVIDE FOR THE PROPER DRAINAGE AND UTILITY OF THE SITE. CONTRACTOR SHALL PROVIDE FOR ACCURATE AND CONSISTENT MEASUREMENT OF ELEVATIONS TO ACHIEVE THE GRADES NOTED IN THESE PLANS.

12. RIP RAP MATERIAL AND PLACEMENT SHALL BE IN COMPLIANCE WITH TSGT SPECIFICATIONS.

13. CONTRACTOR SHALL REMOVE TOPSOIL IN AREAS DESIGNATED BY TSGT AS STOCKPILE LOCATIONS PRIOR TO STOCKPILING MATERIALS OTHER THAN TOPSOIL.

TOPSOIL NOTES:

1. ORGANIC MATERIAL IS PRESENT IN THE TOP 6" OF THE SITE. THIS MATERIAL IS NOT CONSIDERED TO BE ACCEPTABLE AS STRUCTURAL EMBANKMENT. EARTHEN MATERIAL WITH ORGANIC CONTAMINATION SHALL BE CONSIDERED TOPSOIL.

2. TOPSOIL MATERIAL REMOVED FROM THE CONSTRUCTION AREAS ON THE SITE SHALL BE STOCKPILED ON-SITE FOR RE-USE IN TOPSOIL PLACEMENT AFTER OVERALL GRADING IS COMPLETE. EXCESS TOPSOIL MATERIAL REMAINING AFTER CONSTRUCTION SHALL BE SPREAD OVER BORROW AREAS ON-SITE OR HAULED OFF.

3. TOPSOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF 6" IN THE AREA OF THE SWITCH YARD, COMMUNICATIONS YARD, FENCE APRONS, POND BERM AREA, AND ACCESS DRIVEWAYS. THE CONTRACTOR SHALL VERIFY WITH THE OWNER THAT THE EXPOSED MATERIAL IS AN ACCEPTABLE SUBGRADE. AS NECESSARY AND DIRECTED BY THE OWNER, THE CONTRACTOR SHALL REMOVE ADDITIONAL MATERIAL TO ESTABLISH AN ACCEPTABLE SUBGRADE SURFACE.

DEMOBILIZATION NOTES:

1. CONDITIONS OF THE PROJECT AREA UPON COMPLETION OF THE JOB SHALL BE AS GOOD AS OR BETTER THAN THE CONDITIONS PRIOR TO STARTING WORK, IN ADDITION TO THE WORK ITEMS LISTED.

2. THE PROJECT AREA SHALL BE FREE OF ANY CONTRACTOR STOCKPILE MATERIALS UPON COMPLETION OF THE JOB UNLESS OTHERWISE DIRECTED BY THE OWNER.

3. UPON COMPLETION OF THE PROJECT, ALL OF THE HAUL ROUTES SHALL BE PROPERLY CLEANED TO PREVENT OBSTRUCTION AND/OR CAUSE INCONVENIENCE TO NORMAL REGULAR TRAFFIC. ALL TEMPORARY HAUL ROUTES SHALL BE REMOVED AND BROUGHT BACK TO ORIGINAL CONDITION OR BETTER. ALL RUTTED AREAS SHALL BE GRADED SMOOTH. SEEDING SHALL BE APPLIED AS INCIDENTAL.

4. THE JOB TRAILER, ALL OF THE CONSTRUCTION EQUIPMENT, AND ANY FACILITIES TEMPORARILY PLACED ON SITE FOR THE PROJECT SHALL BE REMOVED FROM THE SITE.

5. ANY PROPERTIES BELONGING TO THE OWNER SHALL BE RETURNED TO THE OWNER.

6. PROPER DRAINAGE (NO LOCALIZED PONDING) SHALL BE MAINTAINED, PRIOR TO, DURING AND AFTER MOBILIZATION.

7. DEMOBILIZATION SHALL BE DONE TO THE SATISFACTION OF THE OWNER.

8. DEMOBILIZATION SHALL BE DONE IN A MANNER THAT WILL NOT CAUSE ANY INCONVENIENCE TO SITE OPERATIONS OR THE CONTINUED CONSTRUCTION OF THE OTHER APPURTENANCES ON THE SITE.

9. ANY DAMAGE TO PROPERTIES DURING DEMOBILIZATION SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE.

10. SAFETY REGULATIONS SHALL BE OBSERVED AT ALL TIMES DURING DEMOBILIZATION.

11. THE COST FOR DEMOBILIZATION SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM FOR MOBILIZATION.

PRELIMINARY

Drawing Title | Dwg. No. | Mfgr. | Reference Drawings

No.	Date	Revision	Dwn.	Appd.	M.F.
7					
6					
5					
4					
3					
2					
1					

BADGER CREEK SUBSTATION
230 KV
CONSTRUCTION NOTES
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

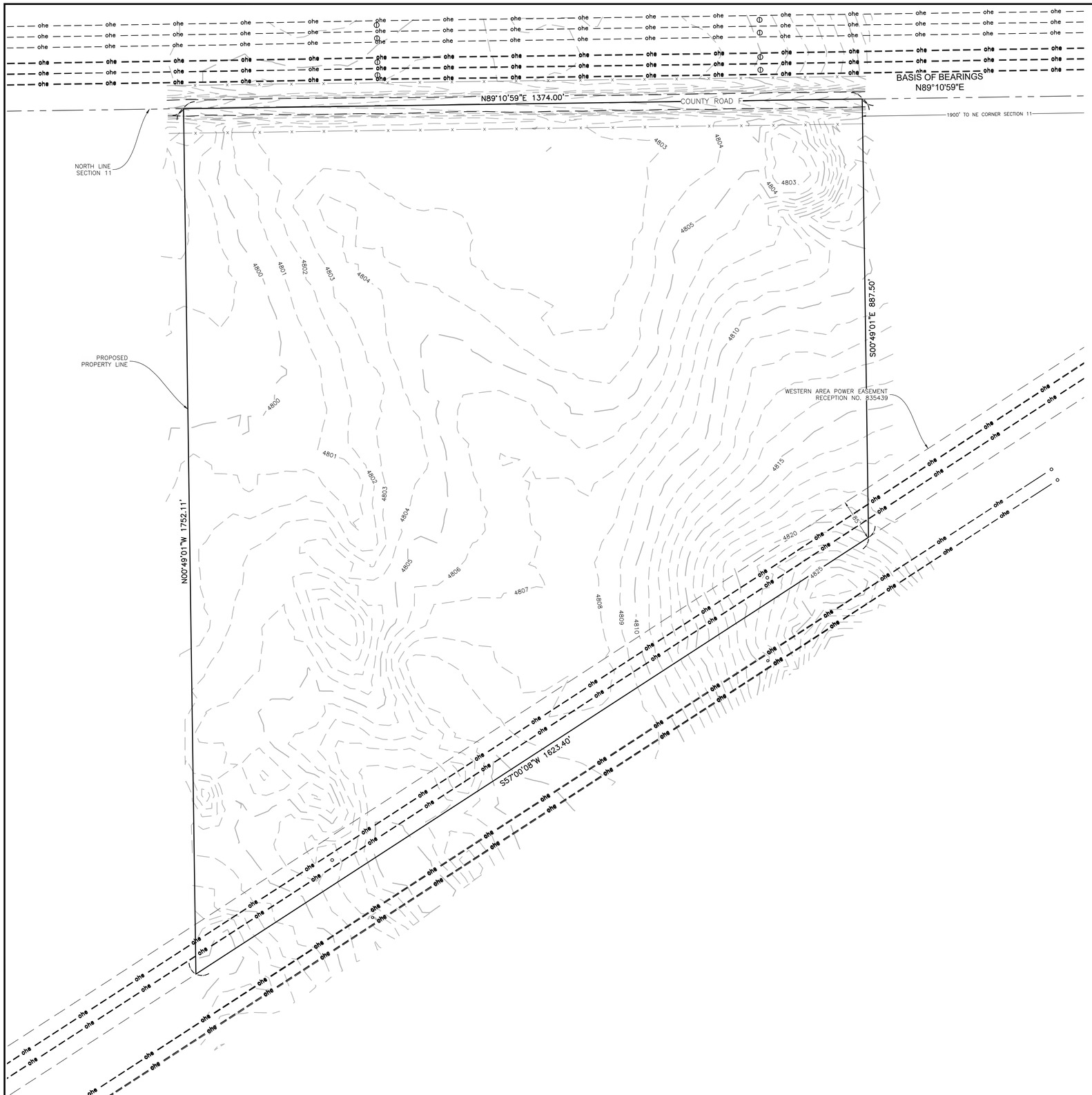
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-002

PATH: \\DMS1A\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg



LEGEND

- 5800 — EXISTING INDEX CONTOUR
- 5796 — EXISTING INTERMEDIATE CONTOUR
- ohe — EXISTING OVERHEAD POWER LINE
- x — x — EXISTING FENCE

NOTE:

1. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SUBSTATION SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).
2. COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE SCALE FACTOR = 1.0002648129

1" = 100'

Scale in feet

100' 0 100' 200'

PRELIMINARY

Drawing Title | Mfgr. | Reference Drawings | Dwg. No.

Revision | M.F.

No.	Date	Dwn.	Appd.
1			
2			
3			
4			
5			
6			
7			

BADGER CREEK SUBSTATION

230 KV

EXISTING CONDITIONS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

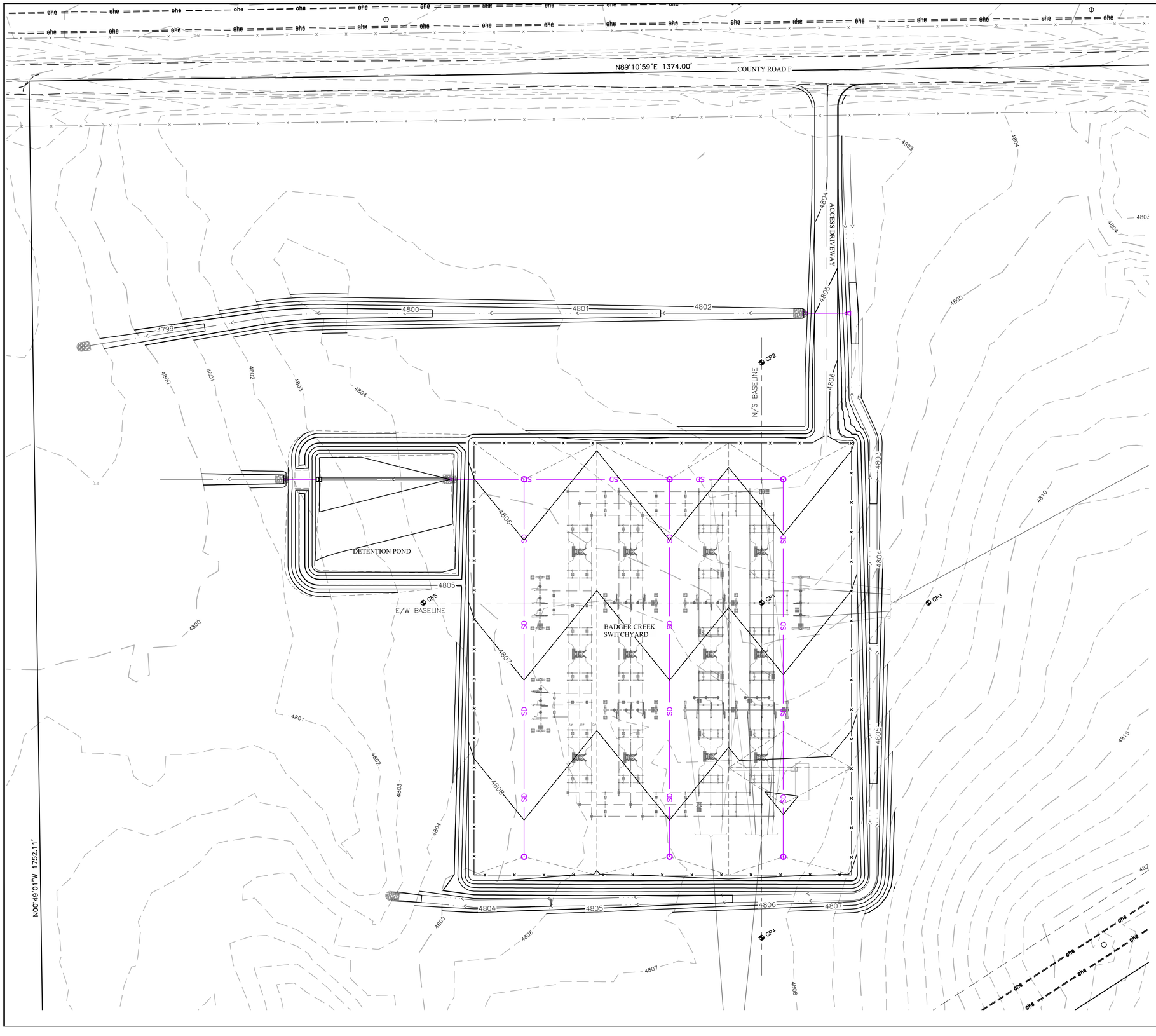
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-003

PATH: \\DMS1\Projects\Active Projects\2024\V2411-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- BASELINE
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED SUBDRAIN
- PROPOSED GRADE BRAKE LINE
- PROPOSED SUBSTATION FENCE
- PROPOSED DRAINAGE FLOWLINE
- PROPOSED RIPRAP
- PROPOSED SUBDRAIN CLEANOUT

NOTE:

1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SUBSTATION SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).
3. COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE SCALE FACTOR = 1.0002648129

Control Point Table

Point #	Northing	Easting	Description
5001	1273133.32	3434114.49	CP1
5002	1273397.47	3434114.49	CP2
5003	1273133.32	3434297.77	CP3
5004	1272765.00	3434114.49	CP4
5005	1273133.32	3433742.43	CP5

1" = 50'

Scale in feet

50' 0 50' 100'

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
5					
4					
3					
2					
1					

Dwg. No. | Mfgr. | Drawing Title | Reference Drawings

BADGER CREEK SUBSTATION
230 KV

OVERALL SITE

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

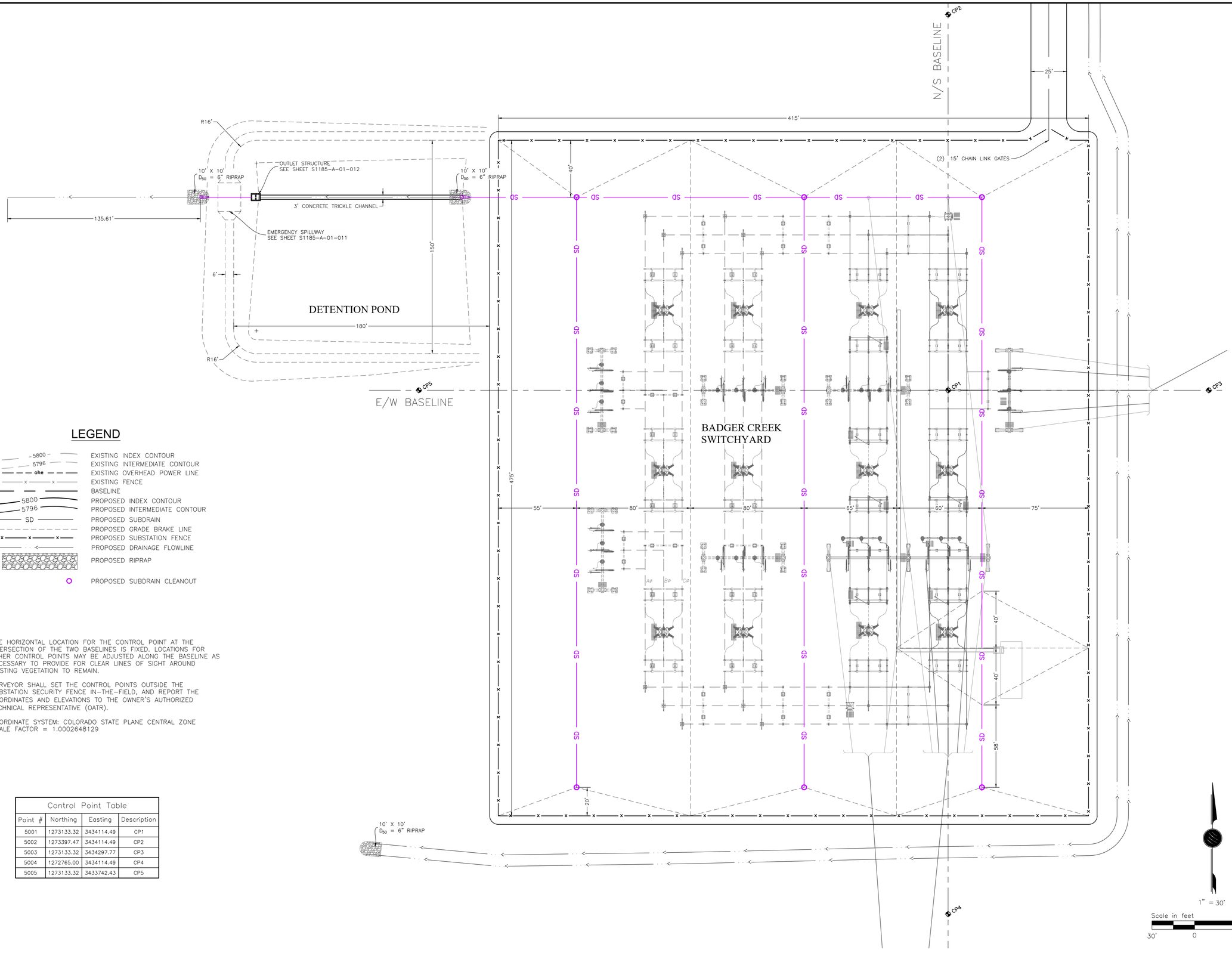
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn: TMC | Date: 11/11/25
Appd: | Date:

S1185-A-01-004



LEGEND

- EXISTING INDEX CONTOUR (5800)
- EXISTING INTERMEDIATE CONTOUR (5796)
- EXISTING OVERHEAD POWER LINE (ohe)
- EXISTING FENCE
- BASELINE
- PROPOSED INDEX CONTOUR (5800)
- PROPOSED INTERMEDIATE CONTOUR (5796)
- PROPOSED SUBDRAIN (SD)
- PROPOSED GRADE BRAKE LINE
- PROPOSED SUBSTATION FENCE
- PROPOSED DRAINAGE FLOWLINE
- PROPOSED RIPRAP
- PROPOSED SUBDRAIN CLEANOUT

NOTE:

1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
2. SURVEYOR SHALL SET THE CONTROL POINTS OUTSIDE THE SUBSTATION SECURITY FENCE IN-THE-FIELD, AND REPORT THE COORDINATES AND ELEVATIONS TO THE OWNER'S AUTHORIZED TECHNICAL REPRESENTATIVE (OATR).
3. COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE SCALE FACTOR = 1.0002648129

Control Point Table

Point #	Northing	Easting	Description
5001	1273133.32	3434114.49	CP1
5002	1273397.47	3434114.49	CP2
5003	1273133.32	3434297.77	CP3
5004	1272765.00	3434114.49	CP4
5005	1273133.32	3433742.43	CP5

No.	Date	Dwn.	Appd.	Revision
7				
6				
5				
4				
3				
2				
1				M.F.

Dwg. No. | Mfgr. | Reference Drawings | Drawing Title

BADGER CREEK SUBSTATION

230 kV

SITE LAYOUT

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

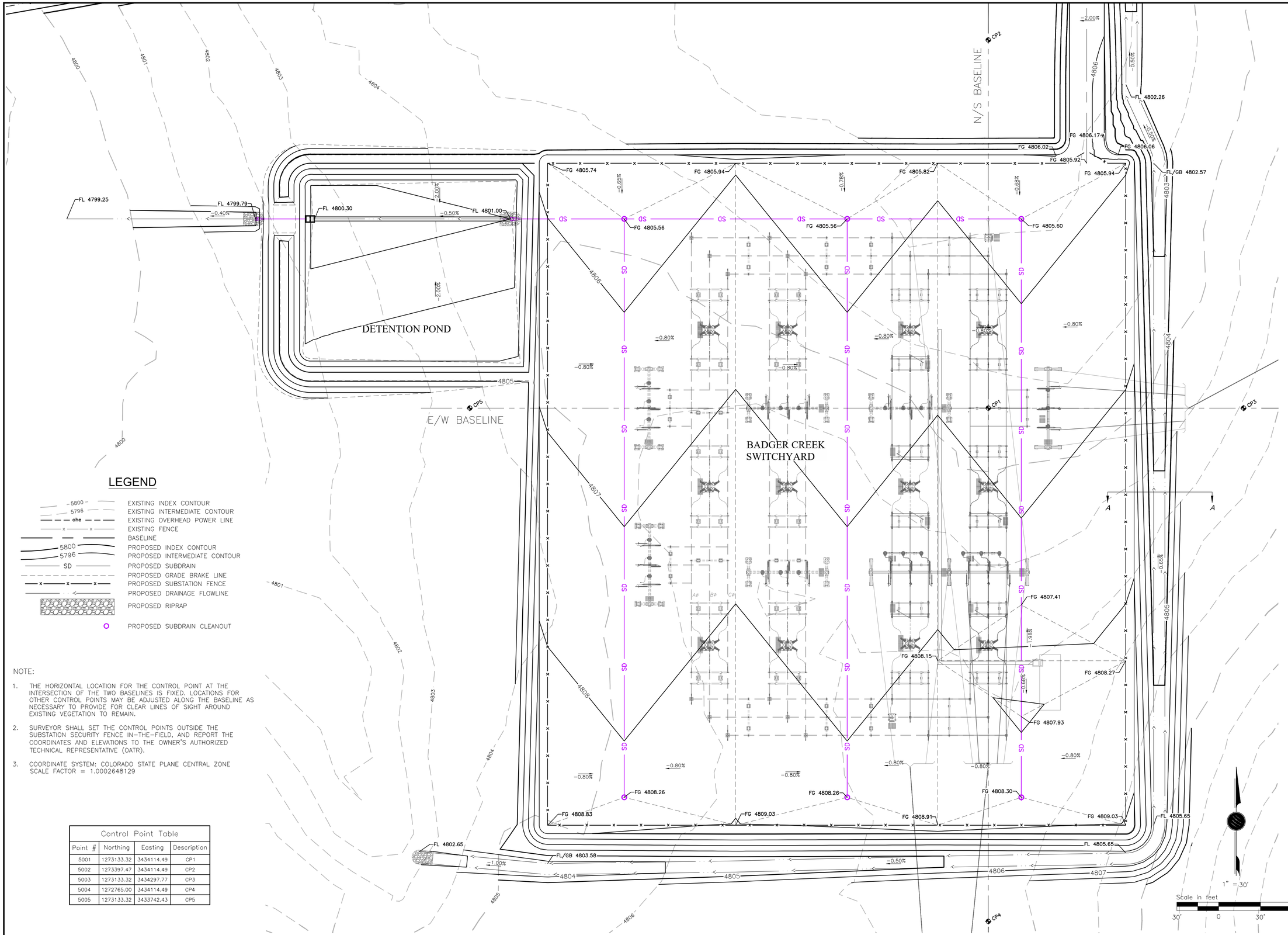
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-005



LEGEND

- 5800 — EXISTING INDEX CONTOUR
- 5796 — EXISTING INTERMEDIATE CONTOUR
- ohe — EXISTING OVERHEAD POWER LINE
- x — x — EXISTING FENCE
- BASELINE
- 5800 — PROPOSED INDEX CONTOUR
- 5796 — PROPOSED INTERMEDIATE CONTOUR
- SD — PROPOSED SUBDRAIN
- PROPOSED GRADE BRAKE LINE
- x — x — x — PROPOSED SUBSTATION FENCE
- PROPOSED DRAINAGE FLOWLINE
- PROPOSED RIPRAP
- PROPOSED SUBDRAIN CLEANOUT

NOTE:

1. THE HORIZONTAL LOCATION FOR THE CONTROL POINT AT THE INTERSECTION OF THE TWO BASELINES IS FIXED. LOCATIONS FOR OTHER CONTROL POINTS MAY BE ADJUSTED ALONG THE BASELINE AS NECESSARY TO PROVIDE FOR CLEAR LINES OF SIGHT AROUND EXISTING VEGETATION TO REMAIN.
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3. COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE SCALE FACTOR = 1.0002648129

Control Point Table

Point #	Northing	Easting	Description
5001	1273133.32	3434114.49	CP1
5002	1273397.47	3434114.49	CP2
5003	1273133.32	3434297.77	CP3
5004	1272765.00	3434114.49	CP4
5005	1273133.32	3433742.43	CP5

No.	Date	Revision	Dwn.	Appd.	M.F.
7					
6					
5					
4					
3					
2					
1					

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

BADGER CREEK SUBSTATION
230 KV

GRADING PLAN

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

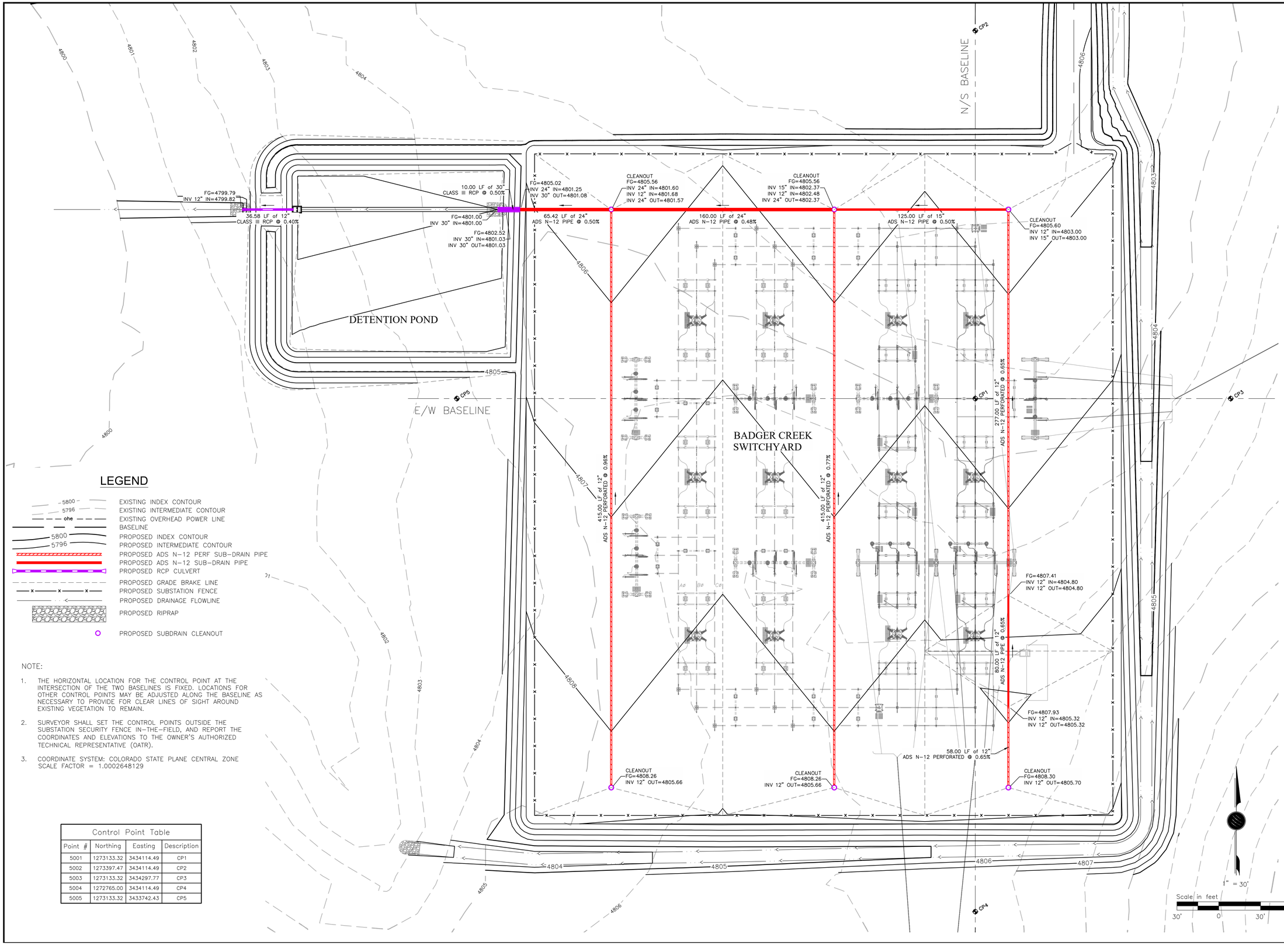
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-006



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING OVERHEAD POWER LINE
- BASELINE
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED ADS N-12 PERF SUB-DRAIN PIPE
- PROPOSED ADS N-12 SUB-DRAIN PIPE
- PROPOSED RCP CULVERT
- PROPOSED GRADE BRAKE LINE
- PROPOSED SUBSTATION FENCE
- PROPOSED DRAINAGE FLOWLINE
- PROPOSED RIPRAP
- PROPOSED SUBDRAIN CLEANOUT

NOTE:

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3. COORDINATE SYSTEM: COLORADO STATE PLANE CENTRAL ZONE SCALE FACTOR = 1.0002648129

Control Point Table

Point #	Northing	Easting	Description
5001	1273133.32	3434114.49	CP1
5002	1273397.47	3434114.49	CP2
5003	1273133.32	3434297.77	CP3
5004	1272765.00	3434114.49	CP4
5005	1273133.32	3433742.43	CP5

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

No.	Date	Revision	Appd.	M.F.
1				
2				
3				
4				
5				
6				
7				

BADGER CREEK SUBSTATION
230 KV

SUBDRAIN LAYOUT

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

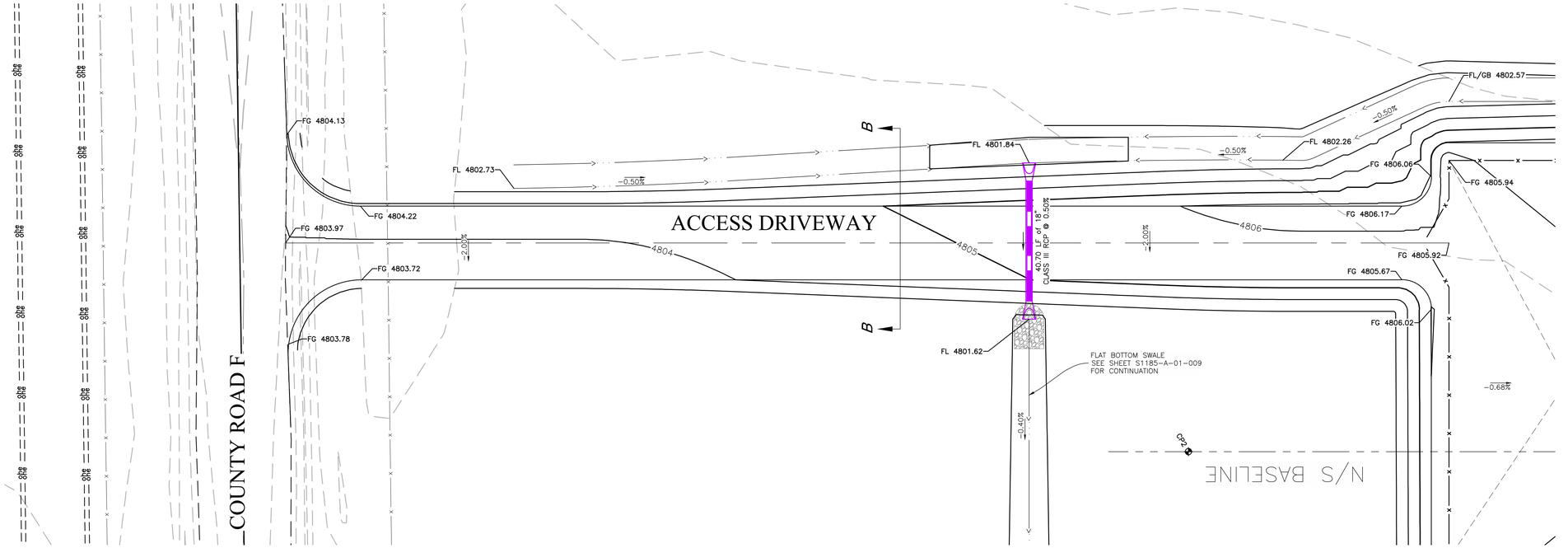
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM Contract: —

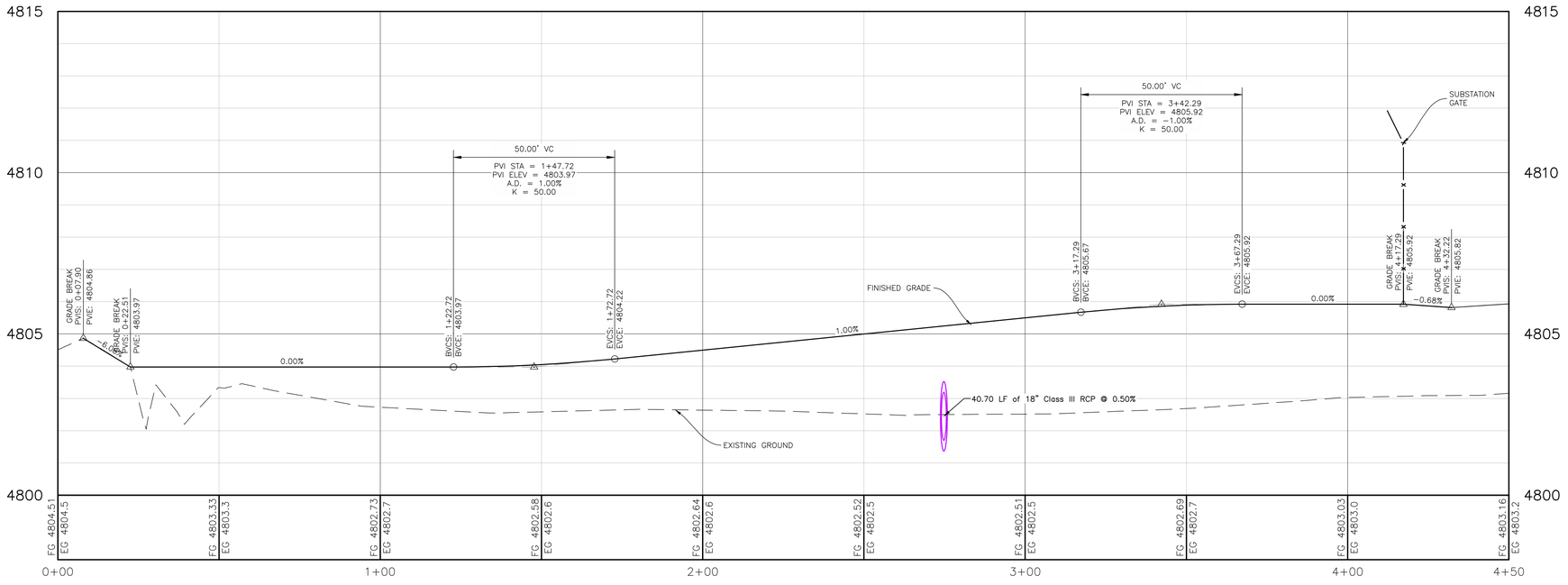
PATH: \\DMS1A\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-007





No.	Date	Dwn.	Apprd.	Revision	M.F.
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2					
3					
4					
5					
6					
7					

Drawing Title: Reference Drawings
Mfgr.
Dwg. No.

BADGER CREEK SUBSTATION
230 KV

ACCESS ROAD PLAN & PROFILE

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 11/11/2025 3:51 PM Contract:

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Apprd:	Date:

S1185-A-01-008

N89°10'59"E 1374.00'

COUNTY ROAD F

ACCESS DRIVEWAY

N/S BASELINE

FG 4803.78

FG 4803.97

FG 4804.13

FG 4804.22

FG 4802.73

FL 4801.62

FL 4801.84

FL 4802.26

FL/GB 4802.57

FG 4806.17

FG 4806.02

FG 4806.06

FG 4805.92

FG 4805.94

FG 4805.74

FG 4805.94

FG 4805.82

FG 4805.56

FG 4805.56

FG 4805.60

FL 4798.45

FL 4799.23

FL 4799.54

FL 4799.25

FL 4799.79

FL 4800.30

FL 4801.00

CP2

4799

4800

4801

4802

4803

4804

4805

4806

-0.40%

-0.50%

-0.65%

-0.78%

-2.00%

SD

LEGEND

5800	EXISTING INDEX CONTOUR
5796	EXISTING INTERMEDIATE CONTOUR
ohe	EXISTING OVERHEAD POWER LINE
x x	EXISTING FENCE
	BASELINE
5800	PROPOSED INDEX CONTOUR
5796	PROPOSED INTERMEDIATE CONTOUR
SD	PROPOSED SUBDRAIN
	PROPOSED GRADE BRAKE LINE
x x x	PROPOSED SUBSTATION FENCE
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED RIPRAP
	PROPOSED SUBDRAIN CLEANOUT

1" = 20'

Scale in feet

20' 0 20' 40'

Drawing Title

Mfgr. Reference Drawings

Dwg. No.

No.	Date	Revision	Dwn.	Appd.
1				
2				
3				
4				
5				
6				
7				

M.F.

BADGER CREEK SUBSTATION

230 KV

NORTH SWALE GRADING

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 11/11/2025 3:51 PM Contract:

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

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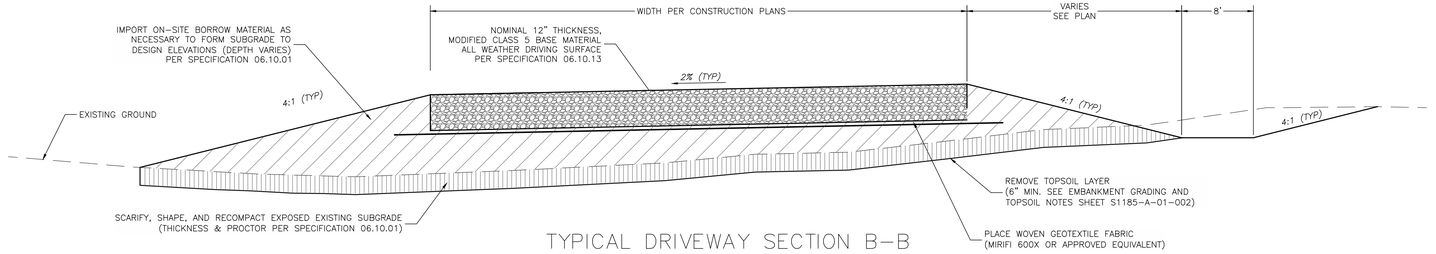
TMC	11/11/25
Appd:	Date:

S1185-A-01-009



TYPICAL DRIVEWAY SECTION B-B
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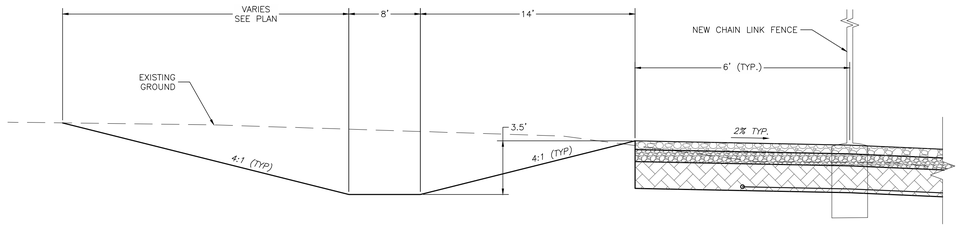

TYPICAL SWALE SECTION A-A
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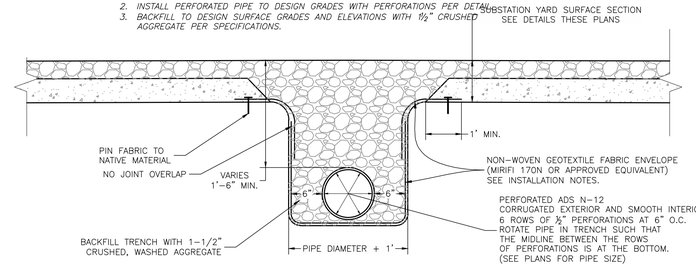
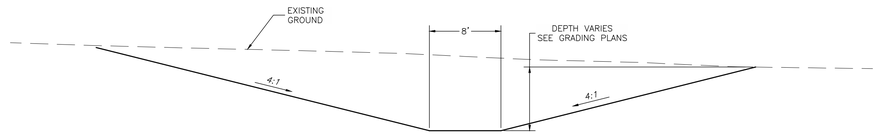


TYPICAL PERFORATED SUBDRAIN DETAIL
N.T.S.



TYPICAL SWALE SECTION C-C
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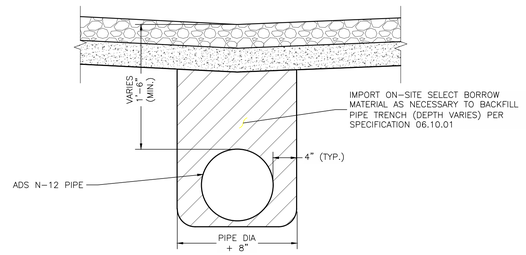

TYPICAL SOLID SUBDRAIN DRAIN DETAIL
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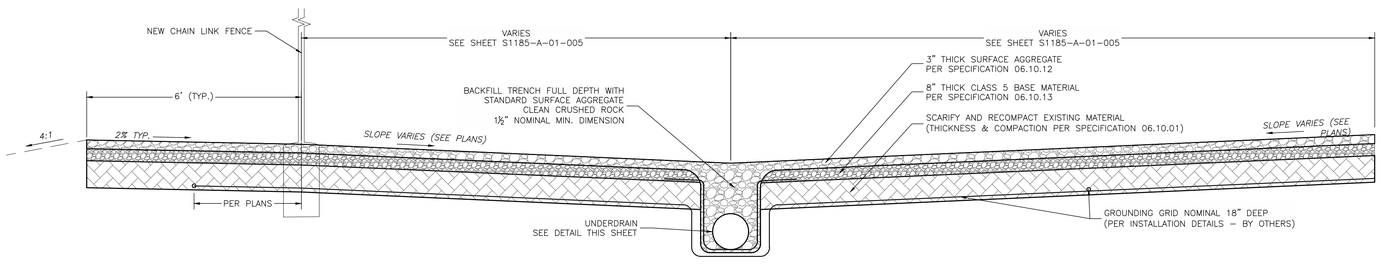


TYPICAL INTERIOR UNDERDRAIN & YARD SECTION
N.T.S.

No.	Date	Revision	Dwn.	Appd.	M.F.
1					
2					
3					
4					
5					
6					
7					

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

BADGER CREEK SUBSTATION
230 KV
CIVIL DETAILS
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

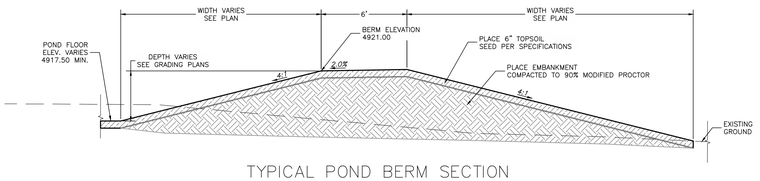
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM Contract:

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-010

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg



TYPICAL POND BERM SECTION
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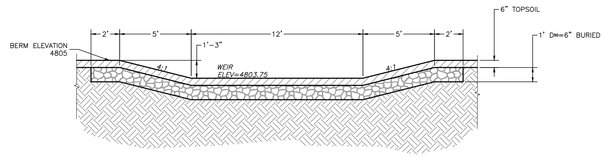

DETENTION BERM EMERGENCY WEIR DETAIL
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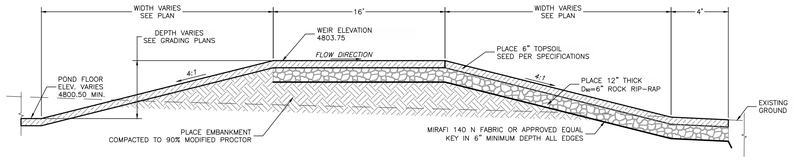

TYPICAL POND BERM & OVERFLOW WEIR SECTION
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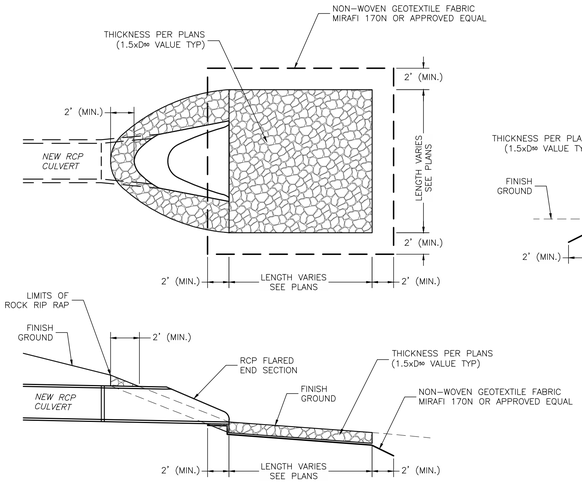
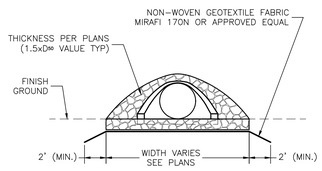
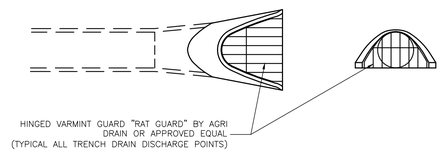
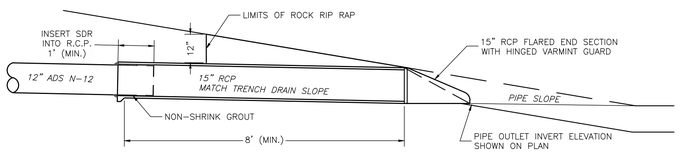


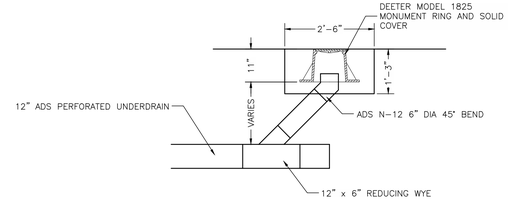


RCP CULVERT OUTLET DETAIL
N.T.S.





ADS SUBDRAIN OUTLET ASSEMBLY
N.T.S.



TYPICAL CLEANOUT DETAIL
N.T.S.

No.	Date	Dwn.	Appd.	Revision	M.F.
7					
6					
5					
4					
3					
2					
1					

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

BADGER CREEK SUBSTATION
230 KV

DRAINAGE DETAILS

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

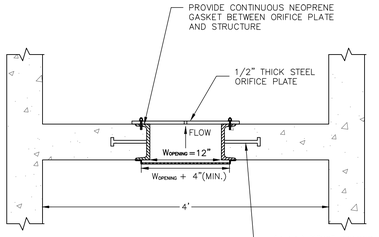
UPDATED BY: TCLEMENT 11/11/2025 3:51 PM Contract:

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

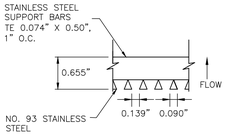
Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-011

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

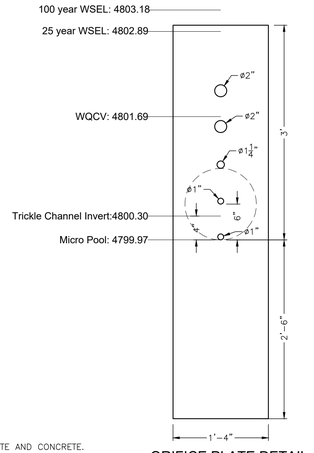


SECTION (B)
N.T.S.

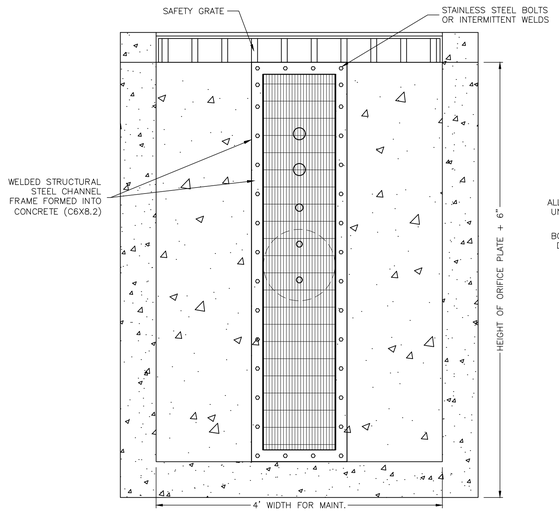


R VALUE = (NET OPEN AREA)/(GROSS RACK AREA)
= 0.60

SECTION (C)
N.T.S.



ORIFICE PLATE DETAIL
N.T.S.



SECTION (A)
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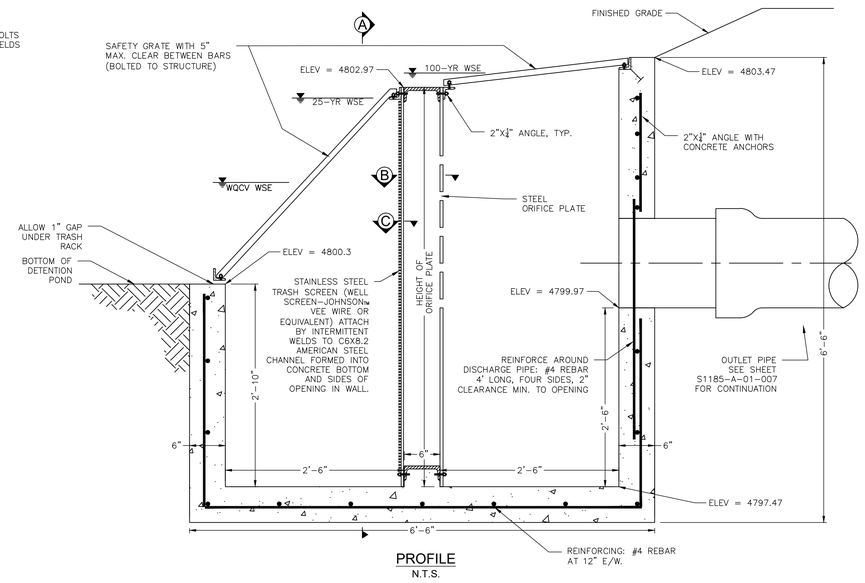


PROFILE
N.T.S.

ORIFICE PLATE NOTES:

1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.

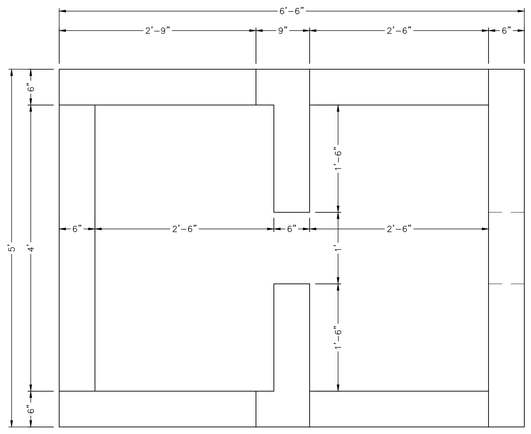
WQCV TRASH RACKS:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.

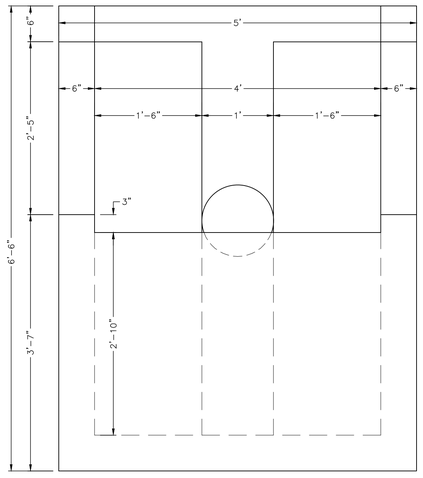
OVERFLOW SAFETY GRATES:

1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.

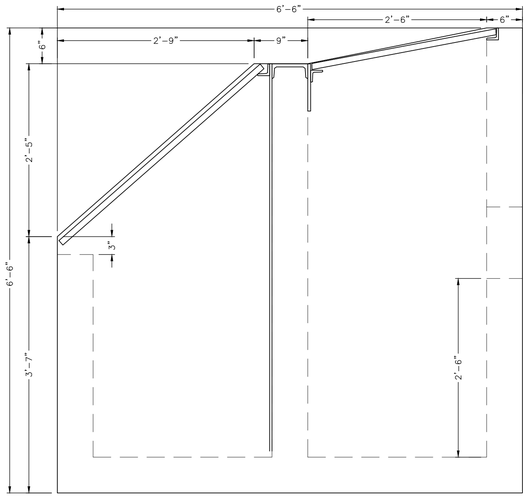
ORIFICE PLATE AND TRASH RACK
DETAILS AND NOTES



CONCRETE OUTLET STRUCTURE
TOP VIEW
N.T.S.



CONCRETE OUTLET STRUCTURE
FRONT VIEW
N.T.S.



CONCRETE OUTLET STRUCTURE
SIDE VIEW
N.T.S.

No.	Date	Revision	Dwn.	Appd.	M.F.
7					
6					
5					
4					
3					
2					
1					

Drawing Title
Mfgr. Reference Drawings
Dwg. No.

BADGER CREEK SUBSTATION
230 KV
OUTLET STRUCTURE DETAILS
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 11/11/2025 3:51 PM Contract:

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy® Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn: TMC | Date: 11/11/25
Appd: | Date:

S1185-A-01-012

PATH: \\DMS14\Projects\Active Projects\2024\24211-TSGT Badger Creek Substation\Facility\Civil\Sheets\S1185-A-01-SHEETS.dwg

N89°10'59"E 1374.00'

COUNTY ROAD F

ACCESS DRIVEWAY

N/S BASELINE

E/W BASELINE

DETENTION POND

BADGER CREEK
SWITCHYARD

N00°49'01"W 1752.11'

CP1 CP2 CP3 CP4 CP5

SD

4799 4800 4801 4802 4803 4804 4805 4806 4807 4808 4809 4810 4815

1" = 50'

Scale in feet

50' 0 50' 100'

No.	Date	Dwn.	Appd.	Revision	M.F.
1					
2					
3					
4					
5					
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7					

Drawing Title

Mfgr. Reference Drawings

Dwg. No.

BADGER CREEK SUBSTATION
230 KV

EROSION CONTROL PLAN

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: TCLEMENT 11/11/2025 3:51 PM | Contract:

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TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-6111

Dwn:	Date:
TMC	11/11/25
Appd:	Date:

S1185-A-01-013

| BOARD OF COUNTY COMMISSIONERS 9:00 A.M. | DECEMBER 16, 2025 |
TRI-STATE 1041 ~ SUPPLAMENTAL PACKET

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- **Additional Application Information**
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  - Updated Landowner / Mineral List / Certification
  - Fee Receipt
- **Landowner Letters, Referrals & Responses**
  - Landowner Letter sent & Responses Received
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FILE SUMMARY

MORGAN COUNTY BOARD OF COMMISSIONERS
FILE SUMMARY
December 16, 2025
TRI-STATE - BIG SANDY TO BADGER CREEK PROJECT
1041 APPLICATION

Application Background

On February 27, 2025 Bruce Bass, John Goodman and James Rehn with the Public Works Department and Cheryl Brindisi, Jenafer Santos and myself for the Planning and Zoning Department met with representatives from Tri-State Generation and Transmission Association (Tri-State) and Power Engineers for a pre-application conference regarding a new 230-kV overhead transmission line from an existing Big Sandy substation to a new Badger Creek switching station. Information regarding the proposed activity was forwarded to the Board for consideration concerning whether a preliminary application would be required pursuant to the Morgan County 1041 Regulations ("1041 Regulations"). After a discussion between the Board and County staff during the Board's meeting on March 4, 2025, the Board waived the preliminary application for the Big Sandy to Badger Creek project pursuant to Sec. 3-302(3) of the 1041 Regulations. The motion carried 3-0.

On June 30, 2025, Tri-State Generation and Transmission Association (Tri-State) and Power Engineers submitted a 1041 Application for Big Sandy to Badger Creek project. A waiver was also requested from several Morgan County 1041 Regulation requirements:

1. Section 3-305(2)(b)(i), which requires a list of names and addresses of all surface owners within 500 feet of the proposed transmission line centerline
2. Section 3-305(2)(b)(iii), which requires property title information
3. Sec. 3-305(2)(b)(iv), which requires a list of names and addresses of mineral interest holders with an interest in any real property proposed to be physically disturbed or crossed by the activity or development which is the subject of the application in the case of projects to be constructed more than ten feet below the surface, excluding foundation structures for above-ground transmission lines

On July 21, 2025, I sent a letter to the applicant denying a waiver for items #1 and #3 but granting a partial waiver for item #2. The names and addresses of persons or entities with an ownership interest in real property proposed to be physically disturbed or crossing by the proposed use must be provided. However, the remaining information required by Sec. 3-305(2)(b)(iii) is not required. In addition, the

letter explained that the application was deemed incomplete due to several missing items and lack of clarity on other items.

On August 29, 2025, after the missing items were submitted and required information was provided, I sent a letter informing Tri-State of the determination of a complete application.

On October 10, 2025, Tri-State and the County entered into a 1041 Permit Application of Site Selection and Construction of a Major Facility of a Public Utility Deadline Waiver Agreement to define the applicable deadlines for review and final action by the County for this proposed project. Deadlines set forth in C.R.S. §§ 29-20-108, 24-65.1-501(2), and section 2-301 of the Morgan County 1041 Regulations related to notice of and scheduling of a public hearing and for a final action by the County were waived.

In addition to the permit application, packets for the Board hearing include referral responses from Colorado Department of Transportation, Xcel and the written approval of the Certificate of Public Convenience and Necessity (CPCN) received from the Colorado Public Utilities Commission (CPUC).

Proposed Project

This is a project to improve reliability and close the transmission gap between Colorado and New Mexico. Additionally, the proposed project will reduce and/or eliminate restricted generation, provide upgrades to meet present and future needs of Tri-State members and assist Tri-State in making progress on its Electric Resource Plan goal by accommodating 400 MW of new resources through new opportunities for interconnection.

The proposed project spans approximately 72 miles through a portion of Lincoln, Washington and Morgan Counties and will include approximately 24 miles of new 230-kilovolt double-circuit electric transmission line and a new (Badger Creek) switching station in Morgan County.

The proposed transmission line would be constructed on privately-owned land in a proposed 150 to 200-foot right-of-way. The general location of the proposed transmission line route is within the southern 6 miles of Morgan County between State Highway 71 and County Road 10. A wooden H-frame structure will be used in most locations with self-supporting steel structures installed at line angles and typically 50 to 100 feet in height. The structures will be approximately 500 feet to 1,200 feet apart depending on site-specific conditions and topography.

The new Badger Creek Switching Station is proposed approximately 14 miles southwest of the City of Fort Morgan. It will include a 12.5 to 15-acre facility with a 4.4 acre fenced in switchyard.

Tri-State conducted a landowner outreach program to share project information with and get feedback from impacted landowners. Current land uses will be mainly unchanged after construction allowing agricultural activities along the transmission line except for the small areas occupied by the transmission poles.

The construction schedule is contingent on acquiring all necessary land rights, permits, labor, and materials. Construction is anticipated to begin in 2027 with an estimated in-service date in early 2028.

Guidelines and Regulations for Areas and Activities of State Interest, Morgan County, State of Colorado - Criteria for Decision

Section 3-101 of the Morgan County 1041 Regulations. The overall purpose and intent of the provisions of County's 1041 Regulations that apply to the project are as follows:

(1) To encourage planned and orderly land use development;

(2) To provide for the needs of agriculture, forestry, industry, business, residential communities, and recreation in future growth;

(3) To encourage uses of land and other natural resources which are in accordance with their character and adaptability;

(4) To conserve soil, water, forest and agricultural resources and to protect vested water rights;

(5) To protect the beauty of the landscape;

(6) To promote the efficient and economic use of public resources;

(7) To regulate the site selection and construction of major facilities of a public utility to prevent significant deterioration or degradation of existing air and water quality in Morgan County;

(8) To avoid or reduce direct conflicts with adopted local government, regional and state master plans; and

(9) To regulate the site selection and construction of major facilities of a public utility to preserve the health and welfare of the citizens of Morgan County.

Section 3-306 of the Morgan County 1041 Regulations require a review of certain criteria when determining whether to approve the proposed project, as follows:

(1) The Board of County Commissioners shall approve an application for permit for site selection and construction of a major facility of a public utility (with reasonable conditions, if any, in the discretion of the Board of County Commissioners) only it the proposed site selection and construction complies with the following criteria to the extent applicable:

(a) The health, welfare and safety of the citizens of this County will be protected and served;

Staff analysis: There are no anticipated substantial adverse impacts to the health, welfare and safety of the County's citizens. Impacts to environmental resources such as air, water, waste, noise, and public health will be minimal and limited to the construction

period. Although transmission lines can generate electromagnetic fields, Tri-State's lines will comply with all applicable laws, including the National Electric Code. Moreover, most of the lines will be in sparsely populated areas.

(b) The natural and socio-economic environment of this County will be protected and enhanced;

Staff analysis: Impacts to the natural environment are anticipated to be temporary and limited in nature. Most impacts will occur during the construction phase, and Tri-State will be required to use best management practices to avoid harm to areas outside of the lines' right-of-way. Some relatively minor temporary economic benefits are expected as construction crews work on the Project. However, because the crews will be relatively small and the construction will be temporary, the direct economic benefits are not anticipated to be substantial. The installation of the transmission lines will provide additional opportunity for placement of interconnection facilities. Landowners may benefit by contracting for the use of their land for renewable energy generation projects that would otherwise not occur. These generation projects will come with benefits and drawbacks. New jobs will be available and construction crews will use local businesses. However, renewable energy projects have additional impacts on the area, including use of agricultural land, and noise, visual, and wildlife impacts.

(c) All reasonable alternatives to the proposed action, including use of existing rights-of-way and joint use of rights-of-way, wherever uses are compatible, have been adequately assessed and the proposed action represents the best interests of the people of this County and represents the best utilization of resources in the impact area;

Staff analysis: Tri-State has provided a Routing and Siting Study as Appendix A to its application. The Routing and Siting addresses how Tri-State considered a variety of factors in selecting the route of the transmission lines and how the route was modified to address these factors. The route for the transmission line is on privately-owned land. Section 11 of Tri-State's narrative addresses alternatives considered by Tri-State.

(d) A satisfactory program to mitigate and minimize adverse impacts has been presented;

Staff analysis: There are no anticipated non-mitigated adverse impacts other than the potential impact on County roadways, and unremediated land subsequent to construction activity. These concerns are adequately mitigated via the agreement between the County and Tri-State, requiring Tri-State to return any damaged County roadways to their condition prior to Tri-State-caused damage. Tri-State will be required to fully remediate land damaged by its construction activities. Please see Section 12 of Tri-State's narrative for additional details regarding how they will mitigate and minimize adverse impacts.

(e) The nature and location or expansion of the facility complies with all applicable provisions of the master plan of this County, and other applicable regional, metropolitan,

state, and national plans;

Staff analysis: The project is compatible with the County's master plan. It protects the agricultural character of the County, provides upgrades to meet present and future needs of Tri-State members and new opportunities for interconnection in the County.

(f) The nature and location or expansion of the facility complements the existing and reasonably foreseeable needs of the service area and of the area immediately affected by the facility;

Staff analysis: The project is not anticipated to cause significant changes to the use of land in its area. Following construction, agricultural activities along the transmission line route can continue outside of the small area occupied by the transmission poles and the Badger Creek Switching Station footprint.

(g) The nature and location or expansion of the facility does not unduly or unreasonably impact existing community services;

Staff analysis: No additional governmental services are required by the project.

(h) The nature and location or expansion of the facility will not create an expansion of the demand for government services beyond the reasonable capacity of the community or region to provide such services, as determined by the Board;

Staff analysis: No additional governmental services are required by the project during or after construction. There may be impacts on County roadways, which can be mitigated by requiring Tri-State to prepare a traffic plan and remediate any damage caused to County roadways.

(i) The facility site or expansion area is not in an area with general meteorological and climatological conditions which would unreasonably interfere with or obstruct normal operations and maintenance;

Staff analysis: The equipment will be designed to withstand unusual meteorogical events. The transmission lines and switching station will be able to function normally in a wide range of County weather conditions.

(j) The nature and location of the facility or expansion will not adversely affect the water rights of any upstream, downstream, or agricultural users, adjacent communities or other water users;

Staff analysis: No water rights will be impacted by the project.

(k) Adequate water supplies are available for facility needs;

Staff analysis: Water for construction activities will be trucked into the location and obtained from local permitted water sources. Large quantities of water are not necessary for the project. Bottled water will be provided for human consumption during construction.

(l) The nature and location of the facility or expansion will not unduly interfere with any existing easements for or rights-of-way, for other utilities, canals, mineral claims, or roads;

Staff analysis: As part of the land rights process, Tri-State will identify existing easements and rights-of-way for other utilities, canals, mineral claims, or roads and will not cause any undue interference with existing easements or rights-of-way during construction and operation of the project.

(m) Adequate electric, gas, telephone, water, sewage, and other utilities exist or shall be developed to service the site;

Staff analysis: Any utilities required for the project will be adequate.

(n) The nature and location for expansion of the facility will not interfere with any significant wildlife habitat or adversely affect any endangered wildlife species, unique natural resource or historic landmark within the impact area;

Staff analysis: There will be impacts during construction of the project, including increased construction equipment impact, noise, and dust. There could be sediment runoff from the construction activities into irrigation ditches and other waterways. However, Tri-State represents that it will implement best management practices to control sediment and runoff into canals and waterways during construction. Tri-State will be regulated by CDPHE and is required to follow state standards to control fugitive construction dust. Once operational, most environmental impacts will be limited.

The transmission line route will span wetlands. Tri-State believes it will be able to span most wetlands and therefore, will not adversely impact them. However, if a wetland cannot be spanned, Tri-State will need to obtain appropriate permits from the Army Corps of Engineers.

Tri-State has conducted studies on the impact of the project on species in the area and is in the process of coordinating with Colorado Parks and Wildlife regarding the routing and related impacts of the transmission lines in the area. There will be impacts to habitat due to clearing activities for construction. However, these impacts should be limited to the 150 to 200-foot right-of-way.

(o) The nature and location or expansion of the facility, including expected growth and development related to the operation and provision of service, will not significantly deteriorate water or air quality in the impact area;

Staff analysis: Drainage facilities will be constructed to address the increased impervious area caused by the switching station. Best management practices will be followed during construction to minimize run-off into waterways and irrigation ditches. There will be increased air pollution from fugitive dust, fumes, and construction equipment exhaust. Because the majority of the construction activity will occur in sparsely-populated areas, the impacts are anticipated to be minimal. The County retains its nuisance-enforcement authority and will regulate Tri-State's construction activity if it results in adverse impacts to the neighboring properties.

(p) The geological and topographic features of the site are adequate for all construction, clearing, grading, drainage, vegetation, and other needs of the facility construction or expansion;

Staff analysis: The switching station location is flat and minimal grading activity is expected. The majority of the transmission line route is also relatively flat. Therefore, no major topographic issues are expected. There will be clearing of vegetation within the 150 to 200-foot right-of-way to facilitate construction activities. Any damages will be reclaimed upon completion of construction.

(q) The existing water quality of affected state waters will not be degraded below state and federal standards or established baseline levels.

Staff analysis: There is some risk of runoff from the construction area into local waterways and irrigation ditches. However, Tri-State will employ best management practices to avoid any significant issues. Upon completion of construction, the transmission line infrastructure will span most wetlands and waterways. If wetlands or waterways of the United States cannot be avoided, Tri-State will be required to obtain federal permits.

(r) The proposed project will not have a significantly adverse net effect on the capacities or functioning of streams, lakes and reservoirs in the impact area, nor on the permeability, volume, recharge capability, and depth of aquifers in the impact area.

Staff analysis: See Section (q), above. There will be no impact on aquifers.

(s) The benefits of the proposed developments outweigh the losses of any natural resources or reduction of productivity of agricultural lands as a result of the proposed development.

Staff analysis: Minimal loss of agricultural land is anticipated. There could be some impact on natural resources, primarily resulting from impact of construction activity on wildlife habitat. However, Tri-State will be working with CPW to limit these impacts. The proposed development will provide some short terms economic benefit to local businesses during construction. The longer term benefits include the improvement of the state's electric reliability and reduce curtailment, therefore benefitting Tri-State customers.

(t) The applicant has obtained or will obtain all property rights, permits, and approvals necessary for the proposed project, including surface, mineral, and water rights and easements. for drainage, disposal, utilities, access, etc. If the applicant has not obtained all necessary property rights, permits and approvals, the Board may; at its discretion, grant the permit conditioned upon completion of the acquisition of such rights prior to issuance of a zoning or building permit by the County.

Staff analysis: Tri-State will be required to obtain all necessary property rights for the transmission lines prior to commencement of construction. All easements required for construction will be secured and recorded with the Clerk and Recorder of Morgan County prior to construction.

(u) The proposed project will not present an unreasonable risk of exposure to or release of toxic or hazardous substances within the impact area. The determination of effects of the project shall include the following considerations:

(i) The means by which outdoor storage facilities for fuel, raw materials, equipment and related items are adequately enclosed by a fence or wall;
(ii) The likelihood of hazardous materials or wastes being moved off the site by natural causes or forces;
(iii) Containment of inflammable or explosive liquids, solids or gases.

Staff analysis: No hazardous material is involved in the project other than fuel, lubricants, and coolants for machinery, which Tri-State will store at its temporary construction areas. Tri-State will need to obtain temporary use permits for this activity and the County will require that such material be stored appropriately in a manner that minimizes the risk of any spills.

(v) The scope and nature of the proposed project will not create duplicate services within the County; and

Staff analysis: The transmission lines and switching station fill a need for reliability and more transmission-related capacity for renewable energy generation facilities. They will not duplicate existing services in the County.

(w) If the purpose and need for the proposed project are to meet the needs of an increasing population within the County, area and community development and population trends demonstrate clearly a need for such development.

Staff analysis: The project is not aimed at meeting the needs of the County due to its increasing population.

(2) The Board of County Commissioners shall deny the permit if the proposed development does not comply with the applicable criteria in subsection (1) of this Section.

(3) The Board may impose additional mitigation requirements and conditions on an applicant as follows if it complies with each of the following steps:

(a) The Board shall make written findings that each such requirement and condition is necessary to ensure that the proposed project will not result in significant adverse net effect on the resources, values and conditions referenced above.

(b) The Board shall also find in writing that each such requirement and condition is necessitated by the proposed project.

(c) All such findings shall be based on material in the administrative record.

(d) The Board shall base the additional requirements and conditions on applicable design standards as adopted by the County, to the extent that such standards then exist.

Recommendation

The application generally meets the criteria as explained above, staff recommends conditional approval of the application subject the following conditions:

Recommended Conditions

The following conditions are recommended if the 1041 Areas and Activities of State Interest Application for Big Sandy to Badger Creek transmission lines and Badger Creek switching station is approved:

1. Documentation demonstrating that Tri-State has obtained the necessary ownership or possessory rights for the transmission line and switching station must be submitted to the Planning & Zoning Department prior to commencement of the construction of the transmission line and switching station. All of the documentation required by this condition must be submitted prior to the commencement of any portion of the construction of any component of the Project.

2. All necessary land use, environmental, and construction permits, approvals and authorizations will be obtained prior to the start of and during construction as required and may include, but are

not limited to, land use permits, right-of-way (ROW) permits, road use agreements, access permits, oversize/overweight permits, grading permits, and stormwater permits.

3. No poles shall exceed a height of 100 feet. Any poles that exceed this height will require prior approval from the County, upon a showing by Tri-State that such height is necessary. Such additional height may be approved by the County Planning Administrator upon application and request from Tri-State. The County Planning Administrator may request any additional information necessary to determine whether approval should be granted.

4. The Badger Creek Switching Station shall be enclosed by a security fence at least 7 feet tall with one foot of barbed wire and be secured at all times.

5. Prior to the commencement of construction, Tri-State will enter into a road use agreement for the use of any public road during construction which shall include the following:

    a. A map showing which County roads will be used during construction. Any super loads shall be identified. Any haul route specifically for super loads, if required by the Public Works Director, requires a separate map.

    b. Pre and post construction surveys and/or reports of County roads to be used during construction required by County staff, obtained by and paid for by the applicant and prepared by a Colorado licensed engineer.

    c. A mitigation plan to address traffic congestion, control, and potential impacts to County roads to be used during construction. The mitigation plan shall also include any dust mitigation activities.

    d. A requirement that the applicant is to make repairs to any roads during construction and return any County roads to their pre-construction baseline condition, at its expense.

    e. A requirement to post financial security in an amount not less than one hundred fifteen percent (115%) of the estimated cost to complete all road restoration, in the form of an irrevocable letter of credit or cash escrow. Cost estimates shall be provided by a licensed Colorado engineer. Upon preliminary acceptance of the restored public road, the County shall release all but fifteen percent (15%) of total actual costs of restoration of the public roads, so long as Tri-State is not in default of any provision of the public improvements agreement. The County shall inspect the restored roads and Tri-State shall pay to the County the cost incurred by the County in conducting such inspections. These costs shall be due and payable upon demand of the County. Tri-State shall be responsible for correcting or properly completing the restoration.

    f. The residual fifteen percent (15%) retained by the County shall act as security for Tri-State's guarantee that the restoration remains free of defect during a two-year warranty

period. Tri-State may at any time during the preliminary acceptance or warranty period offer to provide a substitute or supplemental form of financial security to that security as originally posted with and/or retained by the County. The County may accept substitute or supplemental forms of security in its sole discretion.

6. Prior to the commencement of construction, Tri-State must obtain all proper permissions from landowners to use private roads or develop access roads on any private property. No private access roads, new or currently in use, shall become public rights of way unless approved and accepted by the Board of County Commissioners.

7. The County will require temporary use permits for all temporary construction areas, any staging or laydown areas, or other temporary areas for construction activities ("Temporary Areas"). Tri-State is required to obtain a temporary use permits for all Temporary Areas prior to placing any equipment, materials or any other items associated with the Big Sandy to Badger Creek project in the temporary construction area. To obtain a temporary use permit, at a minimum, Tri-State must provide a map showing the Temporary Area by size (acreage and perimeter), a list of materials and equipment to be stored on the Temporary Areas, activities within the area (e.g., grading, storage, etc.), the length of time the temporary construction or staging or laydown areas will be in use and in the case of concrete batch plants, a copy of the APEN issued by the Colorado Department of Public Health and Environment. Temporary use permits issued for Temporary Areas may not be issued for a period longer than one year. There is no limit on the number renewals for the temporary use permits; however, Tri-State must notify the County at least thirty (30) days prior to the end of a permit of its intent to renew. It shall be a condition of every temporary use permit issued under this provision that all equipment and materials must be removed from the Temporary Areas and the area returned to a condition similar to its condition prior to construction, in accordance with paragraph 8 below. No permanent structures may remain in the Temporary Areas unless approved by the County pursuant to the applicable Morgan County Zoning Regulations.

8. Prior to use of any helicopters in connection with the Big Sandy to Badger Creek project, Tri-State shall provide at least thirty (30) days' written notice to the County Planning Administrator of the location of the helicopter fly yard and dates and hours of helicopter use. Tri-State shall comply with all FAA requirements, including but not limited to, notice of evacuation to residences.

9. All Temporary Areas and transmission lines rights of way, not needed for Tri-State's on-going operations or not used for crop production, shall be reclaimed and/or reseeded as soon as practicable but no later than six months after Tri-State has completed construction in that segment, unless the County Planning Administrator grants an extension for demonstrated good cause.

10. Construction occurring with ¼ quarter mile of any residence shall not commence earlier than 7 a.m.

11. Tri-State shall prevent the existence of any nuisances by way of its construction activities. All trash, litter, construction waste and any potentially hazardous materials shall be disposed of properly off-site. If the County determines that a nuisance exists and the nuisance is not abated or an abatement plan is not submitted to the satisfaction of the County, the County may, upon thirty (30) days' notice under this Agreement, draw upon the Performance Guarantee to pay the cost and expenses of abating the nuisance. The decision to draw on the Performance Guarantee shall be within the sole discretion of the County.

12. Tri-State shall comply with all applicable law and regulations related to safety and emergency management during construction and on-going operations.

13. A final drainage plan for the switching station must be submitted for County review prior to the commencement of construction of the switching station.

14. Tri-State shall be responsible for the payment of all costs and fees incurred by the County associated with this Permit. The County shall invoice Tri-State for costs and fees and payment will be due by Tri-State within thirty (30) days of the date of the invoice. Failure to pay may result in enforcement actions by the County.

Nicole Hay
Morgan County Planning Administrator

CONSULTANTS

HARRIS
ENGINEERING
CONSULTANTS, INC.

19176 County Road 21.5
Fort Morgan, CO 80701
(970) 867-4971 | Office

November 19, 2025

Ms. Nicole Hay
Morgan County Planning & Zoning Department
231 Ensign Street
Fort Morgan, CO 80701

Re: 1041 Permit Application Review
Tri-State Big Sandy – Badger Creek 230 kV Transmission Line Project

I have reviewed the revised documentation that you provided for the proposed Big Sandy to Badger Creek 230 kV Transmission Line Project to be completed by the Tri-State Generation and Transmission Association, consisting of the installation of 72 miles of single-circuit 230 kV transmission line and a switching station located in southeastern Morgan County. The provided documentation of interest in this review consisted of the revised *Badger Creek Switching Station Drainage Report* [revised drainage report], dated November 11, 2025, and *Badger Creek Switching Station Grading, Drainage and Surface Improvements* drawing package [revised civil drawings], dated November 11, 2025.

Based on my review of the revised drainage report and civil drawings, detention storage and outlet structure design is based on the 1-hour, 100-year storm which is in accordance with Section 3-705(A) of the Morgan County Zoning Regulations [Regulations]. It is understood that peak runoff discharge was calculated using a 24-hour storm with SCS Type II rainfall distribution. Table 5-1 in the revised drainage narrative lists the total post-detention discharge as 4.12 cfs and 6.98 cfs for the 25- and 100-year storm events, respectfully. Summing the component discharges from the SWMM modeling results provided in Appendix D of the narrative I calculate the total discharge for the 25- and 100-year storm events at 4.31 cfs and 8.62 cfs, respectfully. Nevertheless, either quantity is in general conformance with Section 3-705(A)(1) of the Regulations based on the pre-development runoff discharges reported on Table 4-1 of the revised drainage narrative.

Per the revised civil drawings, off-site runoff, including runoff from undeveloped areas within the property, are routed around the proposed detention basin, which is in conformance with the Regulations [ref. Section 3-705(A)(2)]. However, the applicant should be advised that if undeveloped areas within the property are developed in the future, runoff from those areas will need to be captured and detained per the Regulations. Any significant development within the property beyond what has been submitted in this application will be subject to additional County permitting and review requirements.

Please feel free to contact me with any questions or concerns, or if I may provide further assistance.

Sincerely,

Matthew C. Harris, PE
CO PE #49409

HARRIS
ENGINEERING
CONSULTANTS, INC.

19176 County Road 21.5
Fort Morgan, CO 80701
(970) 867-4971 | Office

September 30, 2025

Ms. Nicole Hay
Morgan County Planning & Zoning Department
231 Ensign Street
Fort Morgan, CO 80701

Re: 1041 Permit Application Review
Tri-State Big Sandy 230 kV Transmission Line Project

I have reviewed the documentation that you provided for the proposed Big Sandy to Badger Creek 230 kV Transmission Line Project to be completed by the Tri-State Generation and Transmission Association, consisting of the installation of 72 miles of single-circuit 230 kV transmission line and a switching station located in southeastern Morgan County. The provided documentation of interest in this review consisted of the *Badger Creek Switching Station Drainage Report* [drainage report], dated May 1, 2025, included as part of the 1041 permit application.

As a result of my review, I have the following comments:

1. The drainage report makes reference to "common practices" as the design criteria for detention pond allowable release rate. Design of drainage facilities should reference and comply with the criteria defined in the Morgan County Zoning Regulations, specifically, Section 3-705.
2. A couple of typos were identified in the drainage report:
    a. Section 4.1: 10-year event is referenced in the narrative while 25-year event is listed on Table 4-1.
    b. Figure A-2: Summary Runoff Table lists a flow of 1.82 cfs under the 100-year event for design point 2, should this be 15.82 cfs per value listed in Table 5-1?
    c. Figure A-2: Summary Runoff Table lists contributing area under design point 4 as 525 acres but should, presumably, be listed at 5.25 acres.
3. I was unable to locate hydraulic capacity calculations for the subdrain piping system or the emergency overflow weir on the detention basin. These should be provided in the drainage report.

Please feel free to contact me with any questions or concerns, or if I may provide further assistance.

Sincerely,

Matthew C. Harris, PE
CO PE #49409

ADDITIONAL APPLICATION INFORMATION

Letter of Completeness 08/09/2025

Letter of Incompleteness 07/21/2025

90 Day Waiver Agreement

Public Utilities Commission – Decision No. R22-0533

Additional Information

Mineral Certified Receipts

Updated Landowner / Mineral List / Certification

Fee Receipt

MORGAN COUNTY
PLANNING AND ZONING DEPARTMENT

August 29, 2025

Sent via electronic mail to [redacted]

Rita Ruderman,
Project Manager
POWER Engineers, Inc.
3900 South Wadsworth Blvd., Suite 700
Lakewood, CO 80235

Re: Tri-State Permit Application
Big Sandy to Badger Creek project

Dear Ms. Ruderman:

This letter shall serve to inform you that Morgan County has reviewed Tri-State's responses to the letter sent by Morgan County dated July 21, 2025 regarding the 1041 Permit Application for a Major Facility of a Public Utility. The County has determined the application is complete with the additional items submitted. The public hearing on the 1041 Permit Application will be heard by the Board of County Commissioners on October 21, 2025, starting at 9 a.m. in the Assembly Room at 231 Ensign, Fort Morgan.

Please let me know if you have any questions.
Sincerely,

Nicole Hay
Planning & Zoning Director

MORGAN COUNTY
PLANNING AND ZONING DEPARTMENT

July 21, 2025

Sent via electronic mail to [redacted]

Rita Ruderman,
Project Manager
POWER Engineers, Inc.
3900 South Wadsworth Blvd., Suite 700
Lakewood, CO 80235

Re: Tri-State Permit Application
Big Sandy to Badger Creek project

Dear MS. Ruderman:

County and Zoning staff has reviewed Tri-State's 1041 Permit Application.

In the application, Tri-State requested a waiver for the following items:

1. A list of names and addresses of all surface owners within 500 feet of the proposed transmission line centerline required by Sec. 3-305(2)(b)(i) of the County's 1041 regulations.

2. A list of names and address of persons or entities with an interest in any real property proposed to be physically disturbed or crossed by the activity or development which is the subject of the application, excluding mineral interests but including those holding mortgages, judgments, liens, easements, contract rights, rights of way, reservations, exceptions, or other encumbrances required by Sec. 3-305(2)(b)(iii) of the County's 1041 regulations.

3. A list of names and addresses of mineral interest holders with an interest in any real property proposed to be physically disturbed or crossed by the activity or development which is the subject of the application in the case of projects to be constructed more than ten feet below the surface, excluding foundation structures for above-ground transmission lines required by Sec. 3-305(2)(b)(iv) of the County's 1041 regulations.

The County is not willing to grant a waiver for items #1 or #3 above. The County is willing to grant a partial waiver for item #2 above. The names and addresses of persons or entities with an ownership interest in real property proposed to be physically disturbed or crossing by the proposed use must be provided. However, the remaining information required by Sec. 3-305(2)(b)(iii) is not required. The names and addresses of mineral holders with an interest in any real property proposed to be physically disturbed by the Badger Creek Switching Station must be provided.

In addition, the application does not provide the following information or lacks clarity on the following items:

1. Section 3-305(2)(c)(ii) requires a map showing all special districts.

2. Table 1 on page ii indicates Badger Creek Switching Station will be on a 40-acres site. Sec. 3.2 indicates the switchyard will be located on a 12.5 to15-acre site with a 4.4-acre fenced switch yard. Please clarify the size and location of the Badger Creek Switching Station.

3. The application appears to contain inconsistent statements related to floodplains. In Sec. 12.4, it states the project does not cross floodplains or flood hazard areas. Sec. 12.5 and 14(xvi.) states no floodplains were identified along the proposed route. However, the proposed route crosses Badger Creek floodplain and Sand Arroyo Creek floodplain. Please provide clarification of the project crossing the above mentioned floodplains.

4. Please provide a copy of the Certificate of Public Convenience and Necessity received from the Colorado Public Utilities Commission on September 9, 2022.

5. Please show the proposed route on the project overview map in Appendix B

On item #1 above, the County is willing to accept a list of all special districts by parcel in lieu of a map.

Based upon the above, the County has determined the application is incomplete. Until a new or amended application is submitted, the current application will not be processed further.

Please let me know if you have any questions.
Sincerely,

Nicole Hay
Planning & Zoning Director

MORGAN COUNTY BOARD OF COMMISSIONERS
FILE SUMMARY
October 7, 2025

TRI-STATE
BIG SANDY-BADGER CREEK PROJECT
DEADLINE WAIVER

On February 27, 2025 Bruce Bass, John Goodman and James Rehn with the Public Works Department and Cheryl Brindisi, Jenafer Santos and myself for the Planning and Zoning Department met with representatives from Tri-State Generation and Transmission Association (Tri-State) and Power Engineers for a pre-application conference regarding a new 230-kV overhead transmission line from an existing Big Sandy substation to a new Badger Creek switching station. After a discussion between the Board and Staff on March 4, 2025, the Board moved to waive the preliminary pre-application for the Big Sandy-Badger Creek Project. The motion carried 3-0.

On June 30, 2025, Tri-State Generation and Transmission Association (Tri-State) and Power Engineers submitted a 1041 Areas and Activities of State Interest Application for the Big Sandy-Badger Creek Project. After review, it was determined the application did not provide all of the information required by the Morgan County 1041 Regulations and therefore, incomplete.

Once the required information was submitted, Power Engineers, Inc was sent a letter informing Tri-State of the determination of a complete application on August 29, 2025.

State law requires, a local government take final action on an application for a major electric facility of a public utility within 90 days after receipt of the final application (November 27, 2025) and to publish a hearing notice for a 1041 application within 30 days after receipt of an application. Similarly, Section 2-301 of the Morgan County 1041 Regulations requires that not later than thirty (30) days after receipt of a completed application for a permit, the Board of County Commissioners shall set and publish notice of the date, time and place for hearing on said application.

Due to scheduling conflicts, Tri-State desires to waive the deadlines. The terms of this agreement states Tri-State waives the deadlines set forth by State law and the Morgan County 1041 Regulations and Tri-State and the County agree the public hearing will occur on December 16, 2025 and the County shall not continue the hearing beyond January 31, 2026 unless Tri-Sates requests a continuance.

Nicole Hay
Morgan County Planning Administrator

Docusign Envelope ID: F81DB652-6533-462A-AE16-0D3AC349F60F

1041 PERMIT APPLICATION FOR SITE SELECTION AND CONSTRUCTION OF A MAJOR FACILITY OF A PUBLIC UTILITY DEADLINE WAIVER AGREEMENT

BETWEEN THE COUNTY OF MORGAN, COLORADO

AND

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC

INTRODUCTION

The County of Morgan, Colorado (the "**County**") and Tri-State Generation and Transmission Association, Inc. ("**Tri-State**") (each individually a "**Party,**" or collectively the "**Parties**") hereby enter into this 1041 Permit Application for Site Selection and Construction of a Major Facility of a Public Utility Deadline Waiver Agreement (the "**Agreement**") effective as of October 10, 2025, to define the applicable deadlines for review and final action by the County on Tri State's 1041 Permit Application for Site Selection and Construction of a Major Facility of a Public Utility (the "**Application**").

RECITALS

WHEREAS, Tri-State is proposing to construct, operate, and maintain a new 230 kilovolt (kV) single-circuit, overhead electric power transmission line to connect its existing Big Sandy Substation in unincorporated Lincoln County, Colorado to the site for its proposed Badger Creek Switching Station in unincorporated Morgan County, Colorado (the "**Project**");

WHEREAS, the Project is subject to approval by the County pursuant to the Morgan County Guidelines and Regulations for Areas and Activities of State Interest (the "**Morgan County §1041 Regulations**");

WHEREAS, C.R.S. § 29-20-108 requires that a local government take final action on an application for a major electric facility of a public utility within 90 days after receipt of the final application;

WHEREAS, C.R.S. §24-65.1-501(2) requires a local government to publish a hearing notice for a 1041 application within 30 days after receipt of an application;

WHEREAS, similarly, Section 2-301 of the Morgan County 1041 Regulations requires that not later than thirty (30) days after receipt of a completed application for a permit the Board of County Commissioners shall set and publish notice of the date, time and place for hearing on said application;

WHEREAS, Tri-State desires to waive the deadlines set forth above and propose an alternative timeline for notification and scheduling of the public hearing and for final action regarding Tri-State's application; and

Docusign Envelope ID: F81DB652-6533-462A-AE16-0D3AC349F60F

WHEREAS, the County and Tri-State mutually acknowledge that this Agreement is supported by appropriate and adequate consideration.

TERMS OF AGREEMENT

The Parties stipulate and agree to the following:

Section 1. Tri-State hereby waives the deadlines set forth in C.R.S. §§ 29-20-108, 24-65.1-501(2), and Section 2-301 of the Morgan County 1041 Regulations related to notice of and scheduling of a public hearing and for a final action by the County (collectively, the "**Deadlines**").

Section 2. The Parties agree that the public hearing shall occur on December 16, 2025 with notice of such hearing to be provided as required by the County regulations and state law. Should the public hearing date be continued by the County, the public hearing and the issuance of a final decision on the Application may not be postponed any later than February 27, 2026.

Section 3. Other than the waiver of the Deadlines, by entering into this Agreement neither party waives any rights or obligations under state law or the Morgan County 1041 Regulations applicable to the Project.

Section 4. This Agreement shall not be binding on any future applications for projects, by Tri-State or otherwise, within the County.

[Signatures on the following page.]

Docusign Envelope ID: F81DB652-6533-462A-AE16-0D3AC349F60F

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed and delivered as of the date set forth below.

Tri-State Generation and
Transmission Association, Inc.

DocuSigned by:
By: H Steven Gray
Name: H.Steven Gray
Title: Vice President, Land, Water and Environmental Resources

Date: 10/8/2025

COUNTY OF MORGAN, COLORADO

By:
Name: Jon Becker
Title: Chair BOCC

Date: 10/10/2025

Attest:
Morgan County Clerk of the Board

By:_____
Deputy Clerk of the Board

Date:_____

APPROVED AS TO FORM:

By: _____
Name: _____
Title: _____

Date: _____

Colorado PUC E-Filings System

Decision No. R22-0533

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF COLORADO

PROCEEDING NO. 22A-0085E

IN THE MATTER OF THE APPLICATION OF TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC. FOR CERTIFICATES OF PUBLIC CONVENIENCE AND NECESSITY FOR THE BIG SANDY TO BADGER CREEK 230 KV TRANSMISSION LINE AND THE BADGER CREEK SUBSTATION, AND THE BOONE TO HUCKLEBERRY 230KV TRANSMISSION LINE AND THE HUCKLEBERRY SUBSTATION, AND FOR ASSOCIATED FINDINGS REGARDING AUDIBLE NOISE AND MAGNETIC FIELDS REASONABLENESS.

RECOMMENDED DECISION OF ADMINISTRATIVE LAW JUDGE CONOR F. FARLEY GRANTING UNOPPOSED JOINT MOTION TO APPROVE COMPREHENSIVE SETTLEMENT AGREEMENT, ACCEPTING COMPREHENSIVE SETTLEMENT AGREEMENT, GRANTING APPLICATION AS AMENDED BY COMPREHENSIVE SETTLEMENT AGREEMENT, AND CLOSING PROCEEDING

Mailed Date: September 9, 2022

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I. STATEMENT

A. Procedural Background

1. On February 18, 2022, Tri-State Generation and Transmission Association, Inc. (Tri-State) filed a Verified Application (Application) seeking the issuance of Certificates of Public Convenience and Necessity (CPCN) for the Big Sandy – Badger Creek 230 kV Transmission Line, the Badger Creek Substation, the Boone – Huckleberry 230 kV Transmission Line, and the Huckleberry Substation (each a Project, collectively the Projects), and requesting that the Commission make specific findings with respect to the reasonableness of audible noise and magnetic fields associated with each project. With the Application, Tri-State filed the direct testimony of Ryan J. Hubbard (Hearing Exhibit 101), Christopher E. Pink (Hearing Exhibit 102), H. Steven Gray (Hearing Exhibit 103), and Robert E. Schaerer (Hearing Exhibit 104).

2. Also on February 18, 2022, the Commission issued a notice of the Application.

3. On March 14 and 18, 2022, the Office of the Utility Consumer Advocate (UCA) and Commission Trial Staff (Staff) filed notices of intervention by right, respectively.

4. On March 16, 18, and 21, 2022, the Interwest Energy Alliance (Interwest), the Colorado Independent Energy Association (CIEA), and Western Resource Advocates (WRA)

filed Motions to Permissively Intervene in this proceeding (Motions to Permissively Intervene), respectively.

5. On April 5, 2022, the Application was automatically deemed complete pursuant to Rule 1303(c)(IV) of the Commission's Rules of Practice and Procedure.

6. On April 6, 2022, the Commission referred the proceeding to an Administrative Law Judge (ALJ) by minute entry. The proceeding was subsequently assigned to the undersigned ALJ.

7. On April 27, 2022, the ALJ issued Decision No. R22-0258-I that granted the Motions to Permissively Intervene, set a remote prehearing conference for May 10, 2022, directed Tri-State to confer regarding a procedural schedule, discovery procedures, and method for conducting the hearing (remote, hybrid, or in-person) in this proceeding, and to file a report of the results of the conferral in advance of the prehearing conference.

8. On May 5, 2022, Tri-State filed a Conferral Report (Report), pursuant to Decision No. R22-0258-I. In the Report, Tri-State stated that the parties agreed to conduct the hearing fully remotely, and follow the following proposed procedural schedule for this proceeding (Proposed Procedural Schedule):[1]

Event	Proposed Date
Prehearing Conference	May 10, 2022 (Vacated)
Answer Testimony	May 25, 2022
Rebuttal and Cross-Answer Testimony	June 15, 2022
Stipulations and Settlement Agreements	June 29, 2022

[1] Report at 3.

Corrections to Pre-Filed Testimony and Exhibits, Pre-Hearing Motions, Settlement Testimony (if applicable)	July 5, 2022
Responses to Pre-Hearing Motions	July 12, 2022
Matrix of order of Witnesses and Estimated Cross-Examination Times	July 18, 2022
First Day of Evidentiary Hearing	July 25, 2022
Last Day of Evidentiary Hearing	July 29, 2022
Statements of Position	August 12, 2022
Commission Decision Deadline	December 11, 2022

Tri-State also stated in the Report that the parties agreed that Rule 1405 of the Commission's Rules of Practice and Procedure, 4 *Code of Colorado Regulations* 723-1, will govern discovery in this proceeding.[2]

9. On May 6, 2022, the ALJ issued Decision No. R22-0289-I that, among other things, adopted the schedule proposed by the parties, including the dates for the remote evidentiary hearing from July 25-29, 2022.

10. On May 25, 2022, Staff filed the Answer Testimony of Adam Gribb (Hearing Exhibit 300), Interwest filed the Answer Testimony of Edward Burgess (Hearing Exhibit 400), CIEA filed the Answer Testimony of Warren L. Wendling (Hearing Exhibit 500), and WRA filed the Answer Testimony of Kenneth L. Wilson (Hearing Exhibit 600).

11. On June 15, 2022, Tri-State filed the rebuttal testimony of Mr. Hubbard (Hearing Exhibit 105), Mr. Pink (Hearing Exhibit 106), Mary Ann Zehr (Hearing Exhibit 107), and Mr. Schaerer (Hearing Exhibit 108).

[2] *Id.*

12. On June 29, 2022, Tri-State filed an Unopposed Motion for Extension of Settlement Deadline in which it requested an extension to noon on July 1, 2022 to file settlement documents (Unopposed Motion). As support, Tri-State stated that "[t]he parties have had productive discussions so far and are optimistic about reaching a settlement, but due to scheduling conflicts, require additional time to conclude the ongoing discussions."

13. On July 1, 2022, Tri-State filed an Unopposed Joint Motion to Approve Comprehensive Settlement Agreement (Joint Motion) and the Comprehensive Settlement Agreement (Settlement Agreement).

14. On July 13, 2022, counsel for Tri-State sent an email to the ALJ asking whether the ALJ intended to hold the evidentiary hearing on July 25-29, 2022. Counsel for Tri-State copied counsel for the other parties on the email.

15. On July 18, 2022, the undersigned ALJ responded to the email stating that the hearing would be vacated.

B. History Before This Proceeding

16. Tri-State is a generation and transmission cooperative corporation owned by 42 rural distribution cooperatives and public power districts in Colorado, Nebraska, New Mexico, and Wyoming, and three Non-Utility Members (Members). Tri-State's Utility Members serve customers in 56 Colorado counties, 20 Nebraska counties, 28 New Mexico counties, and 14 counties in Wyoming. Tri-State buys and generates electric power, and transmits, delivers, and sells it to its Utility Members. The Utility Members, in turn, distribute and resell the electricity they purchase at wholesale from Tri-State to their own retail member-customers and ratepayers.[3]

[3] Hearing Exhibit 101 at 7:12-8:5 (Direct Testimony of Mr. Hubbard).

17. On January 20, 2020, Tri-State announced its Responsible Energy Plan (REP), which includes six components: (a) increasing the amount of clean energy in Tri-State's generation resource portfolio; (b) reducing emissions; (c) increasing Member flexibility; (d) extending clean grid benefits by expanding electric vehicle infrastructure and beneficial electrification opportunities; (e) supporting its employees and communities affected by the ongoing clean energy transition; and (f) working together to create a brighter future.[4]

18. WestConnect is a regional transmission planning group in which Tri-State participates.[5] The Colorado Coordinated Planning Group (CCPG) is a subregional planning group within WestConnect. Its purpose is to assure a high degree of reliability in the planning, development, and operation of the high voltage transmission system in the Rocky Mountain Region. CCPG provides the technical forum required to complete reliability assessments, develop joint business opportunities, and accomplish coordinated planning.[6]

19. In March 2021, Tri-State proposed a new task force to be formed within the CCPG to discuss and propose alternatives to address needs associated with Tri-State's Responsible Energy Plan. The Responsible Energy Plan Task Force (REPTF) was established by CCPG and met seven times between April and September 2021. Participants in the REPTF included representatives of all of the parties in this proceeding, as well as other interested parties. Participants in the REPTF were able to propose alternatives for study by the REPTF. Tri-State acted as the facilitator in the study effort by both conducting and presenting the studies and their

[4] *Id*. at 18:16-19:1.
[5] *Id*. at 20:10-14.
[6] *Id*. at 15:21-16:2, 20:15-22.

results. The study scope and all alternatives, sensitivities and scenarios studied, were agreed to by the REPTF participants.[7]

20. The REPTF produced the REPTF Study Report (REPTF Report), which was finalized by the REPTF on September 16, 2021, and approved by the CCPG on December 16, 2021. The REPTF Report analyzed the ability of 14 different transmission alternatives to: (1) accommodate at least 400 MW of new generation in eastern Colorado; (2) provide connectivity across Tri-State's four-state service area; (3) improve transmission system reliability in the Lamar area; and (4) mitigate generation curtailment in eastern Colorado under 230 kV prior outage conditions.[8] The REPTF Report did not recommend one of the alternatives. However, it ranked the alternatives based on a "bang for your buck" analysis, which is "injection capability (in MW) per unit cost ($M)."[9] Alternatives 6 and 14 provided the best "bang for your buck."[10]

21. Tri-State reviewed the REP Task Force Final Report and "identified eight alternatives capable of meeting the objective and needs in relation to Tri-State's mission."[11] Tri-State determined that Alternative 14 was the "the most efficient, cost effective alternative that aligns with Tri-State's mission and the Responsible Energy Plan's rate goal."[12] For this reason, Tri-State based the requests in the Application on Alternative 14 (with modifications).[13]

[7] *Id*. at 26:5-32:15.
[8] *Id*. at 32:16-33:6.
[9] *Id*. at 39:15-18.
[10] Hearing Exhibit 101, Attach. RJH-6 at 85.
[11] Hearing Exhibit 101 at 51:8-10 (Direct Testimony of Mr. Hubbard).
[12] *Id*. at 51:15-16.
[13] *Id*. at 51:3-53:16.

II. PRE-SETTLEMENT POSITIONS AND SETTLEMENT AGREEMENT

A. Application

22. As noted above, in the Application, Tri-State requested that the Commission issue CPCNs for a Big Sandy – Badger Creek 230 kV Transmission Line, a Badger Creek Substation, a Boone – Huckleberry 230 kV Transmission Line, and a Huckleberry Substation. Tri-State also requested that the Commission find that the expected maximum level of magnetic fields and the projected level of audible noise radiating beyond the Projects' property lines are reasonable under the circumstances and need not be mitigated to a lower level.

B. Answer Testimony

1. Staff

23. In its Answer testimony, Staff expressed its preference for "larger facilities for these projects, such as double circuit 230 kV lines, or single circuit 345kV lines."[14] Staff realized, however, "that the costs would have increased significantly with the additional capacity and that the benefit to cost ratio would not be as good for the short and medium term."[15] Recognizing that "[t]he [P]rojects . . . will improve Colorado's transmission grid" and "help Tri-State and Colorado as a whole to meet our clean energy goals," Staff ultimately "recommend[ed] that the Commission [approve] the CPCNs."[16]

2. Interwest

24. Interwest recommended approving the Application, but urged the following modifications to Tri-State's requests: (a) require 345 kV lines on both the Big Sandy – Badger Creek Transmission Line and the Boone – Huckleberry Transmission Line (Transmission Lines);

[14] Hearing Exhibit 300, Rev. 1 at 5:3-5 (Answer Testimony of Mr. Gribb).
[15] *Id*. at 5:6-8.
[16] *Id*. at 14:8-10, 13.

(b) require double circuits on both Transmission Lines or, at a minimum, double circuit poles holding up the Transmission Lines; (c) require the utilization of MW/ft of right of way as a metric in determining transmission value; (d) require Tri-State to file a report to the Commission on all applicable programs available under the federal Infrastructure Investment and Jobs Act of 2021 that could be used to support greater injection capability and possibly an application seeking Commission approval to take advantage of such programs.[17]

3. CIEA

25. CIEA proposed approval of the Application with modifications. CIEA believes that the Application is "a short-term focused, least-cost, band-aid type of a transmission CPCN here that is just enough to meet the needs of its system in this decade. . . . [It thus] almost assuredly saddles the next generation with costs resulting from a lack of foresight from this one."[18] CIEA's proposed modifications are designed to make Tri-State's proposed transmission modifications more long-term focused.

26. CIEA's proposed modifications are as follows: (a) require Tri-State to report back to the Commission with a modified cost-effectiveness analysis for building the previously-approved Burlington – Lamar circuit, and the Big Sandy – Badger Creek and Boone – Huckleberry circuits proposed in this Application, as: (i) double-circuit 230 kV lines; or (ii) double-circuit capable towers with only one of the two circuits "strung" on the towers;[19] (b) if the foregoing analysis shows that the double-circuit cost in a cost-benefit ratio greater than 1.0 as specified in Mr. Wendling's testimony, require Tri-State to construct double-circuit towers for

[17] Hearing Exhibit 400 at 42:4-43:5 (Answer Testimony of Mr. Burgess).
[18] Hearing Exhibit 500 at 6:14-20 (Answer Testimony of Mr. Wendling).
[19] *Id*. at 9:11-15, 26:8-29:8.

each circuit,[20] which would require the modification of Decision No. C15-0320 that approved the Burlington – Lamar circuit as a single circuit;[21] (c) require the in-service dates for the Big Sandy – Badger Creek and Boone – Huckleberry circuits to be on or before September 30, 2025;[22] and (d) require Tri-State to allow independent power producers to build out sections of each of these projects, pursuant to the request for proposal process approved in Tri-State's 2020 Electric Resource Plan.[23]

4. WRA

27. WRA would have preferred the Transmission Lines to be double circuit 230 kV or single circuit 345 kV.[24] However, WRA agrees "that the perfect should not drive out the good."[25] Because the Application "will improve Colorado's transmission grid" and "help Tri-State and Colorado as a whole to meet our clean energy goals," WRA supports the Application.[26]

C. Settlement Agreement

28. In the Settlement Agreement, Tri-State made six commitments. First, Tri-State agreed to construct the Transmission Lines, transmission pole heights, conductor types, H-frame and dead-end structures, and substation components consistent with the specifications in Mr. Schaerer's Direct Testimony and Attachments.[27]

29. Second, Tri-State agreed to the following reporting "until such time as the Projects are either energized or suspended indefinitely:" (a) an updated project schedule filed

[20] *Id*. at 9:16-20.
[21] Decision No. C15-0320 issued in Proceeding No. 15A-0080E on April 10, 2015.
[22] Hearing Exhibit 500 at 10:1-5, 15:18-16:5.
[23] *Id*. at 10:1-5, 16:6-17.
[24] Hearing Exhibit 600 at 4:14-5:8, 14:5-13 (Answer Testimony of Mr. Wilson).
[25] *Id*. at 14:12.
[26] *Id*. at 14:8-10.
[27] Settlement Agreement at 3-5 (§ 3.2).

into this proceeding twice a year starting on November 1, 2022; and (b) an updated cost estimate filed with the annual report required by Commission Rule 3206(d) for, at a minimum, the land, substation, and transmission line components of the Projects. Tri-State also agreed to meet with Staff, the UCA, and WRA twice a year to discuss the information provided pursuant to the foregoing reporting obligations.[28]

30. Third, Tri-State agreed conduct an Incremental Improvements Study by August 15, 2022 to attempt to identify low-cost improvements that will increase the injection capacity of the 115 kV transmission system in eastern Colorado discussed by Mr. Hubbard in his rebuttal testimony. The Incremental Improvements Study will be based on Alternative 14 in the REPTF Report and use its assumptions regarding the location of new generation facilities.[29]

31. Fourth, Tri-State agreed to continue to monitor and, as appropriate, apply for federal funding that may become available to support the Projects and to hold one stakeholder meeting by December 1, 2022 with interested Settling Parties to discuss any such potential opportunities.[30]

32. Fifth, Tri-State agreed to identify whether one or more interconnection request projects submitted to Tri-State requires either the Burlington – Big Sandy transmission line upgrades or the Big Sandy – Badger Creek transmission line segment to achieve operation. If a project is so identified, Tri-State agrees, if requested by the developer, to use reasonable efforts to advance the construction of the project under the terms set forth in Section 11.2.3 of Tri-

[28] *Id*. at 5-6 (§ 3.3).
[29] *Id*. at 6-7 (§ 3.4).
[30] *Id*. at 7 (§ 3.5).

State's Large Generator Interconnection Procedures. Tri-State will identify any such interconnection in its 2022 Definitive Interconnection System Impact Study Phase 1 report.[31]

33. Sixth, Tri-State agreed that: (a) "participation in an organized market is central to meeting [its] goals related to greenhouse-gas emission reductions, a clean energy resource portfolio, reducing wholesale rates and maintaining reliability; (b) its "decision to join one or more organized markets with respect to its Western Interconnection facilities will be informed by the decisions of the balancing authorities in which its facilities are located;" and (c) it "is required to comply with applicable requirements of Colorado Senate Bill 21-072."[32]

34. In return for these agreements, the intervening parties agreed that the Application meets the requirements of § 40-5-101(1)(a) and Commission Rule 3206[33] and is in the public interest. The intervening parties also agreed that the Commission should make the reasonableness findings regarding the audible noise and magnetic fields requested in the Application.

III. ANALYSIS

A. Burden of Proof

35. Except as otherwise provided by statute, the Administrative Procedure Act imposes the burden of proof in administrative adjudicatory proceedings upon "the proponent of an order."[34] Tri-State, Staff, UCA, Interwest, CIEA, and WRA filed the Joint Motion and, as a result, bear the burden of proof.[35] The parties must establish by a preponderance of the evidence

[31] *Id*. at 7-8 (§ 3.6).

[32] *Id*. at 8 (§ 3.7).

[33] 4 *Colorado Code Regulations* (CCR) 723-3.

[34] § 24-4-105(7), C.R.S.

[35] Section 24-4-105(7), C.R.S.; § 13-25-127(1), C.R.S.; Rule 1500 of the Rules of Practice and Procedure, 4 CCR 723-1.

that the Settlement Agreement is just and reasonable and in the public interest. The Commission has an independent duty to determine matters that are within the public interest.[36]

B. Modified Procedure

36. The Application, as modified by the Settlement Agreement executed by all of the parties in this proceeding, is uncontested. Moreover, the parties agree that a hearing is unnecessary. Finally, the Application and Settlement Agreement are supported by sworn testimony and attachments that verify sufficient facts to support the Application and Settlement Agreement. Accordingly, pursuant to § 40-6-109(5), C.R.S. and Commission Rule 1403,[37] the Application, as modified by the Settlement Agreement, will be considered under the modified procedure, without a formal hearing.

C. Analysis

37. Based upon substantial evidence in the record as a whole, the ALJ finds and concludes that the Settlement Agreement is just and reasonable and not contrary to the public interest. The ALJ shall approve the Settlement Agreement without material modification and shall grant the Application, as modified and clarified by the Settlement Agreement and the testimony referenced therein.

38. Commission Rule 3206(e)(III) states that "[p]roposed magnetic field levels of 150 mG (milliGauss) and below are deemed reasonable by rule and need not be mitigated to a lower level." Similarly, Commission Rule 3206(f)(II) states that "[p]roposed levels of noise at or below the values listed are deemed reasonable by rule and need not be mitigated to a lower level."[38] The lowest level of noise listed is 50 dB(A) for residential areas.[39]

[36] *See Caldwell v. Public Utilities Commission*, 692 P.2d 1085, 1089 (Colo. 1984).
[37] 4 CCR 723-1.
[38] 4 CCR 723-3.

39. Here, Tri-State's modeling estimates that the expected magnetic field levels for the two new transmission lines and both of the new substations are below 150 mG at all points along the edge of the transmission line rights-of-way and at the property boundary of each of the new substations.[40] Accordingly, the estimated magnetic fields caused by the components of the overall project proposed in the Application comply with Rule 3206(e)(III).

40. In addition, Tri-State used the Bonneville Power Administration's Corona and Field Effects Program software version 3 that uses the EPRI EMF Workstation 2.51 ENVIRO Program to model the audible noise,[41] which is deemed acceptable as a "utility standard program" in Commission Rule 3102(c).[42] The modeling predicts that the audible noise at 25 feet beyond the edge of the transmission right of way will be 20 db(A) under fair conditions and 45 dB(A) under foul weather conditions.[43] Accordingly, the audible noise complies with Commission Rule 3206(f)(II).

41. Accordingly, in accordance with § 40-6-109, C.R.S., it is recommended that the Commission enter the following Order.

[39] *Id*.
[40] Hearing Exhibit 104 at 24:1-31:14 (Direct Testimony of Mr. Schaerer).
[41] *Id*. at 7:14-22.
[42] 4 CCR 723-3.
[43] Hearing Exhibit 104 at 8::8-13 (Direct Testimony of Mr. Schaerer).

IV. ORDER

A. The Commission Orders That:

1. For the reasons stated above, the Unopposed Joint Motion to Approve Comprehensive Settlement Agreement filed on July 1, 2022 by Tri-State Generation and Transmission Association, Inc. (Tri-State), Trial Staff of the Colorado Public Utilities Commission, the Office of the Utility Consumer Advocate, the Interwest Energy Alliance, the Colorado Independent Energy Association, and Western Resource Advocates is granted.

2. The Unopposed Comprehensive Settlement Agreement (Settlement Agreement) is approved, consistent with the discussion above. The Settlement Agreement is attached to this Decision as Appendix A.

3. The Verified Application for the issuance of Certificates of Public Convenience and Necessity for the Big Sandy – Badger Creek 230 kV Transmission Line, the Badger Creek Substation, the Boone – Huckleberry 230 kV Transmission Line, and the Huckleberry Substation, as modified by the Settlement Agreement, is granted consistent with the discussion above.

4. The expected magnetic field values and audible noise values from the transmission lines and substations proposed in the Application meet the conditions of the Commission Rules Regulating Electric Utilities, 4 *Code of Colorado Regulations* 723-3-3206(e)(III) and 3206(f)(II) and are therefore considered reasonable and need not be mitigated, consistent with the discussion above.

5. Proceeding No. 22A-0085E is closed.

6. This Recommended Decision shall be effective on the day it becomes the Decision of the Commission, if that is the case, and is entered as of the date above.

7. As provided by § 40-6-109, C.R.S., copies of this Recommended Decision shall be served upon the parties, who may file exceptions to it.

a) If no exceptions are filed within 20 days after service or within any extended period of time authorized, or unless the decision is stayed by the Commission upon its own motion within 20 days after service, the recommended decision shall become the decision of the Commission and subject to the provisions of § 40-6-114, C.R.S.

b) If a party seeks to amend, modify, annul, or reverse basic findings of fact in its exceptions, that party must request and pay for a transcript to be filed, or the parties may stipulate to portions of the transcript according to the procedure stated in § 40-6-113, C.R.S. If no transcript or stipulation is filed, the Commission is bound by the facts set out by the administrative law judge and the parties cannot challenge these facts. This will limit what the Commission can review if exceptions are filed.

8. If exceptions to this Decision are filed, they shall not exceed 30 pages in length, unless the Commission for good cause shown permits this limit to be exceeded.

(S E A L)

THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF COLORADO

CONOR F. FARLEY

Administrative Law Judge

ATTEST: A TRUE COPY

Doug Dean,
Director

TRI-STATE

October 10, 2025

Nicole Hay, Director
Morgan County Planning and Zoning Department
231 Ensign Street
P.O. Box 596
Fort Morgan, Colorado 80701

Subject: Supplemental Information for Tri-State Generation and Transmission Association 1041 Areas and Activities of State Interest Application for the Big Sandy to Badger Creek 230-kV Transmission Project

Dear Ms. Hay:

Tri-State Generation and Transmission Association, Inc. (Tri-State) would like to provide supplemental information for the 1041 Areas and Activities of State Interest Application (Application) for the Big Sandy to Badger Creek 230-kV Transmission Project (Project), originally submitted on June 30, 2025.

Upon further internal review, we realized that a written narrative addressing the Powerline Trails Act (HB 22-1104) was inadvertently omitted from our original submittal. The following paragraph and the attached fact sheet are provided for your reference and inclusion in the application record. Please note that Tri-State is not proposing a trail in association with the Project. It is merely sharing the information required by HB 22-1104.

Powerline Trails
In 2022, the State of Colorado passed the "Powerline Trails Act" (HB 22-1104). In compliance with the Act, Tri-State is required to develop informational resources and notify local governments regarding the potential for powerline trails when planning for the expansion or construction of transmission corridors. Please see the attached fact sheet for more information.

We apologize for the oversight and appreciate the County's time and continued assistance in processing our application. Please let us know if any additional clarification or materials are needed.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting, and Environmental Planner

P.O. BOX 33695
DENVER, CO 80233-0695
303-452-6111
WWW.TRISTATE.COOP

A Touchstone Energy® Cooperative

Transmission Corridors and Powerline Trails

Powerline Trail Examples in Colorado

Facility: Del Camino–Rinn Valley 115kV Transmission Line Underground portion between structures 47 and 48

Owner: Tri-State

Facility: Bromley-Henry Lake 115kV Transmission Line

Owner: Tri-State

On April 13, 2022, Governor Jared Polis signed HB 22-1104 which requires all transmission providers (i.e., Tri-State) to develop, maintain, and distribute informational resources to encourage, facilitate, and streamline the construction of new powerline trails in transmission corridors that are suitable for the construction and maintenance of a powerline trail.

House Bill 22-1104 does not require a powerline trail within transmission corridors. Under the new law, Tri-State is required to consider trails within planned transmission line corridors and notify local governments of the potential for a powerline trail.

Under HB 22-1104, the entity owning and constructing the trail is required to carry insurance for the trail and its use, not the landowner.

Tri-State will engage in the following activities in accordance with HB 22-1104:

- coordinate with the division of parks and wildlife in the design and construction of a powerline trail to minimize adverse impacts to state and federally listed species and species and habitats of conservation concern;
- consider any issues unique to an area of significant rural character prior to constructing a powerline trail in the area;
- develop informational resources to encourage the construction of new powerline trails;
- notify local governments of the potential for a powerline trail in the associated transmission corridor when siting or expanding a transmission line;
- demonstrate compliance with the requirement to notify local governments of the potential for a powerline trail and to develop and maintain informational resources encouraging construction of new powerline trails when applying for a permit with a local government to develop in an area of state interest; and
- work with local governments, parks departments and landowners to facilitate and allow the construction of trails under powerlines where the co-existence of the trail is welcomed by the landowners and consistent with the surrounding land uses.

DESIGN REQUIREMENTS AND BEST PRACTICES

The following special conditions apply to the developer of any trails located within Tri-State power line easements:

1. Developer shall notify Tri-State's System Operations Outage Coordinator ("Coordinator") no less than thirty (30) calendar days (the "Notification Time Frame") before performing any excavation or using any oversized equipment in the Easement area. The Coordinator can be contacted Monday – Friday, 7 AM – 4 PM at 303-254-3645 or TSGTOutage@tristatgt.org. If notification is sent to the Coordinator before 10 AM, then day one of the Notification Time Frame shall begin the same day; or if notification is sent to the Coordinator after 10 AM, then day one of the Notification Time Frame shall begin the following day. (This Notification Time Frame is necessary to allow Tri-State's Transmission System Operations Department time to review, evaluate and submit the system information to its balancing authorities and reliability coordinator and to allow time to have an observer/certified switchman at the worksite.)

2. Developer shall restrict construction equipment height under Licensor's transmission line to fourteen (14) feet.

Facility: Tap-Ridge and Lookout-Ridge 230kV Transmission Line

Owner: Public Service Company of Colorado

Facilities: Del Camino Tap-Meadow 115kV & Fordhan-Fort Saint Vrain 230kV Transmission Lines

Owners: Tri-State; Platte River Power Authority

3. Developer shall limit the height of signage under Licensor's transmission line to eight (8) feet.

4. Developer shall restrict vegetation and plantings to grasses, shrubs, bushes, and "dwarf" tree species with a maximum height of (14) feet under Licensor's transmission line.

5. Developer shall ensure that all workers in proximity of energized lines are qualified. "Qualified" is defined in O.S.H.A. 29 CFR 1910.269, latest edition.

6. The Facilities must be located a distance of at least twenty-five (25) feet from Licensor's transmission structure foundations (footers and guy anchors).

7. If directed by Tri-State (or designate representative of Tri-State), Developer shall provide shoring or other supportive devices to protect the foundation of the Licensor's structures (footers or guy anchors or both) at Developer's expense.

8. Developer's design shall maintain and preserve the clearance distances between Developer's powerline trails and related facilities to Licensor's conductor wires and meet the more stringent requirements of either the latest version of the National Electric Safety Code or the RUS standards per RUS Bulletin 1724E-200 and any related criteria stated therein as referenced on the internet at https://www.rd.usda.gov/files/UEP_Bulletin_1724E-200.pdf (as updated).

9. The Design and/or construction of a power line trail shall not interfere with Terms and Conditions of the underlying Transmission Line easement, or the landowners' underlying land rights.

10. The Design and/or construction of a power line trail shall not interfere with the Utilities' ability to Own, Operate, Maintain, Design, Construct, Upgrade, Uprate, or Reconstruct the Transmission line.

SAFETY REQUIREMENTS

The entity owning and constructing the trail shall have a risk management plan for their trail to optimize trail safety and reduce the possibility of litigation. Components of a risk management plan include: inventory hazards, inventory uses, inventory the law, inspect, and mitigate.

Transmission lines have inherent danger because they transmit high voltage.

Do not climb towers.

Do not shoot or otherwise damage insulators.

Never touch or get near a fallen line.

Do not attempt to dismantle tower steel members.

Do not cut or remove tower or pole ground wires.

Do not apply additional loads to tower members for temporary support of a structure or vehicle.

Stay away from towers and lines during extreme wind storms, thunderstorms, ice storms, or under other extreme conditions.

Contact Tri-State Generation and Transmission Association at 303-254-3212 with any questions.

Gmail

Jenafer Santos <jsantos@co.morgan.co.us>

Mineral Notifications Sent

Ruderman, Rita [redacted] Mon, Dec 1, 2025 at 11:57 AM
To: Jenafer Santos <jsantos@co.morgan.co.us>, "Ruderman, Rita" [redacted]
Cc: "Hutchinson, Charles" [redacted], "Copeland, Anya" [redacted]
Nicole Hay <nhay@co.morgan.co.us>, Cheryl Brindisi <cbrindisi@co.morgan.co.us>

Hello Jenafer, please see attached.

Of the 41 mineral owners total, 8 had unknown or invalid addresses. So far, 13 have come back return to sender.

Please let me know if you have would to see this in a different format, thank you.

RITA RUDERMAN

PROJECT MANAGER II

[redacted]

[redacted] cell

POWER Engineers

Member of WSP

www.powereng.com

2 attachments

Combined_Certified_Mail_Receipts_Reversed.pdf
1120K

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Billis Ranch Solar LLC
12152 E 168th Ave., Brighton, CO 80602

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Quit Claim Deed: Rec. No. 939854

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted], or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted] Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Heritage Oil Co. c/o Ralph A. Dinkel
8683 E. Lincoln Ave. #250, Lone Tree, CO 80124

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Mineral Deed: Rec. No. 872175

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted] or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted]. Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Triple T Investments, LLC
15366 Road O, Fort Morgan, CO 80701

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Quit Claim Mineral Deed: Rec. No. 872536

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted] or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted]. Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, I

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Robert Drew
6459 Zang St, Apt. #A, Arvada, CO 80004

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: PR Deed: Rec. No. 725689

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted] or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted] Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Jeanette Wilcox
Route 1 - Box 521, Space #53, Warrenton, OR 97146

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: PR Deed: Rec. No. 725689

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted] or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted] Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Curtis E. Drew
899 Pearl St, Apt. #2, Denver, CO 80203-3321

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 874729, Affidavit of Heirship: Rec. No. 874730

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted], or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted] Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Delbert Drew
823 27th Ave, Greeley, CO 80634

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: PR Deed: Rec. No. 725689

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted], or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted]. Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Donald Drew
321 South Lake St, Fort Morgan, CO 80701

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

John J. Hegarty
9787 West Peak View Dr, Littleton, CO 80123-3195

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Warren Drew
4399 Pinto Rd, Kingman, AZ 86401

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Pricilla Peters
6891 East 80th Ave. Commerce City, CO 80022

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

John Michael Drew
12063 Glencoe St, Thornton, CO 80241

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Daniece Drew
1100 Linda St, Apt. A117, Fort Morgan, CO 80701

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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Vesting Document: PR Deed: Rec. No. 725689

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Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd
Attn: McClary Law P.O. Box 597, Fort Morgan, CO 80701

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

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Section 11: All
Vesting Document: Letters Testamentary: Rec. No. 925498

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Sincerely,

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Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Pam Roberts, ala Pam Taylor
4624 Valley Overlook Dr, Apt. 206, Midlothian, VA 23112

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

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Vesting Document: PR Deed: Rec. No. 725689

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Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

David Roberts aka Michael David Roberts
1442 Pinecone St, Moscow, ID 83843

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Crisanne Orgaard
3717 Normandy St, Bismarck, ND 58503

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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Section 11: All
Vesting Document: Quit Claim Deed: Rec. No. 903273

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TRI-STATE

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Kay Renee Bear
14905 E Alki Ln, Spokane, WA 99216

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

John Edward Drew
1337 Albany Dr, Bismarck, ND 58504

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Jim Drew aka James Drew
P.O. Box 1235, Jamestown, ND 585401

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Rae Ann Drew
HCR Route 38, Box 70, Las Vegas, NV 89124-9105

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Susan M. Hergenreter c/o
84577 Highway 144, Weldona, CO 80653

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

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December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
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Ronald E. Cox c/o
84577 Highway 144, Weldona, CO 80653

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Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

TRI-STATE

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Kathleen L. Lorenzini c/o
84577 Highway 144, Weldona, CO 80653

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December 1, 2025

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BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Colleen K. Gillilnad c/o
84577 Highway 144, Weldona, CO 80653

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: PR Deed: Rec. No. 892517

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted] or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted] Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Carol Easter
29 Hartford Dr, Lucasville, OH 45648

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873842, Affidavit of Heirship: Rec. No. 873843

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Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Connie Evans
1510 Lake Point Way, Unit 43, Centerville, OH 45459

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873842, Affidavit of Heirship: Rec. No. 873843

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Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Gary Hudson
7795 Normandy Ln, Centerville, OH 45459

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

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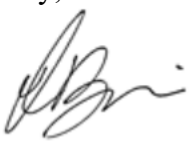
Sincerely,



Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Gregg Hudson
2700 Richlawn Cir, Kettering, OH 45440

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

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Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873842, Affidavit of Heirship: Rec. No. 873843

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Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

TRI-STATE

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Elisa Drew
3427 E. 117th Place, Thornton, CO 80233

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

Morgan County, CO
Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873905

This will serve as an opportunity for stakeholders to contribute their opinions to the county on the proposed project. The Morgan County Board of County Commissioners public hearing will be held at 9:00 am on December 16, 2025, in the Commissioners' Assembly Room at the Morgan Conty Administration Building located at 231 Ensign Street, Fort Morgan, CO 80701.

If you have any questions, please feel free to contact Izzy Beshouri, Transmission Siting, Permitting & Environmental Planner, Tri-State at [redacted], or Jonathan Clark, Tri-State Land Rights and Permitting Specialist at [redacted]. Alternatively, additional information can be obtained by writing or calling Nicole Hay, Planning & Zoning Director, Morgan County Planning and Zoning, 231 Ensign St., Fort Morgan, CO 80701, (970) 542-3526.

Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Philip Brian Drew
2015 N Main, Logan, UT 84341

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

This letter is to inform you that Tri-State Generation and Transmission Association, Inc. (Tri-State), has requested a public hearing with the Morgan County Board of County Commissioners to propose a 230-kV Switching Station in the A - Agricultural Zone District – Badger Creek Switching Station. You may have an interest in the mineral rights on the property more particularly described below:

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Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873905

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Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Renee Gibbs
500 Kauffman Ave, Fairborn, OH 45324

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

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Township 1 North, Range 59 West, 6th P.M.
Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873842

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Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

TRI-STATE

December 1, 2025

NOTICE TO MINERAL INTEREST OWNERS AND LESSEES
BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Brad Cooper
500 Kauffman Ave, Fairborn, OH 45324

Re: Notification to Mineral Estate Owner of Submittal of 1041 Areas and Activities of State Interest Application

To Whom It May Concern:

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Section 11: All
Vesting Document: Affidavit of Heirship: Rec. No. 873843

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Sincerely,

Izzy Beshouri
Transmission Siting, Permitting & Environmental Planner
Tri-State Generation and Transmission Association, Inc

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Kingman, AZ 86401

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Postage	$0.78
Total Postage and Fees	$6.08

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Street and Apt. No., or PO Box No.: 4399 Pinto Rd
City, State, ZIP+4®: Kingman, AZ 86401

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☐ Certified Mail Restricted Delivery	$0.00
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☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: John J. Hegarty
Street and Apt. No., or PO Box No.: 9787 W Peak View Dr
City, State, ZIP+4®: Littleton, CO 80123-3195

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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11/13/2025
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Sent To: Michael David Roberts
Street and Apt. No., or PO Box No.: 1442 Pinecone St
City, State, ZIP+4®: Moscow, ID 83843

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Commerce City, CO 80022

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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11/13/2025
80219 USPS

Sent To: Pricilla Peters
Street and Apt. No., or PO Box No.: 6891 East 80th Ave
City, State, ZIP+4®: Commerce City, CO 80022

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CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at *www.usps.com®*.
Jamestown, ND 58401

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025
11/13/2025
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Sent To: James Drew aka Jim Drew
Street and Apt. No., or PO Box No.: PO Box 1235
City, State, ZIP+4®: Jamestown, ND 58401

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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For delivery information, visit our website at *www.usps.com®*.
Spokane, WA 99216

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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11/13/2025
80219 USPS

Sent To: Kay Renee Bear
Street and Apt. No., or PO Box No.: 14905 E Alki Ln
City, State, ZIP+4®: Spokane, WA 99216

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Las Vegas, NV 89124

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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11/13/2025

Sent To: Rae Ann Drew
Street and Apt. No., or PO Box No.: HCR Route 38, Box 70
City, State, ZIP+4®: Las Vegas, NV 89124-9105

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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For delivery information, visit our website at *www.usps.com®*.

Weldona, CO 80653

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025

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Sent To: Ronald E. Cox
Street and Apt. No., or PO Box No.: 84577 Highway 144
City, State, ZIP+4®: Weldona, CO 80653

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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For delivery information, visit our website at *www.usps.com®*.

Lucasville, OH 45648

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025

11/13/2025

Sent To: Carol Easter
Street and Apt. No., or PO Box No.: 29 Hartford Dr
City, State, ZIP+4®: Lucasville, OH 45648

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Fort Morgan, CO 80701

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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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11/13/2025

Sent To: Patricia Jo Gravitt & Zane D. Simmonds
Street and Apt. No., or PO Box No.: McClary Lane PO Box 507
City, State, ZIP+4®: Fort Morgan, CO 80701

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Bismarck, ND 58503

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☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025

11/13/2025

Sent To: Crisanne Orgaard
Street and Apt. No., or PO Box No.: 3717 Normandy St
City, State, ZIP+4®: Bismarck, ND 58503

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Weldona, CO 80653

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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025

11/13/2025

Sent To: Kathleen L. Lorenzini c/o
Street and Apt. No., or PO Box No.: 84577 Highway 144
City, State, ZIP+4®: Weldona, CO 80653

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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For delivery information, visit our website at *www.usps.com®*.
Dayton, OH 45440

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Extra Services & Fees (check box, add fee as appropriate)	
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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03
Postmark Here
NOV 13 2025
11/13/2025

Sent To: Gregg Hudson
Street and Apt. No., or PO Box No.: 2700 Richlawn Cir
City, State, ZIP+4®: Kettering, OH 45440

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at *www.usps.com®*.
Dayton, OH 45459

Certified Mail Fee	$5.30
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☐ Adult Signature Restricted Delivery	$
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Total Postage and Fees	$6.08

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Postmark Here
NOV 13 2025
11/13/2025

Sent To: Connie Evans
Street and Apt. No., or PO Box No.: 1516 Lake Point Way, Unit 43
City, State, ZIP+4®: Centerville, OH 45459

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9589 0710 5270 2873 5809 76

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Fairborn, OH 45324

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03
Postmark Here
NOV 13 2025
11/13/2025

Sent To: Renee Gibbs
Street and Apt. No., or PO Box No.: 500 Kauffman Ave
City, State, ZIP+4®: Fairborn, OH 45324

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Logan, UT 84341

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Postmark Here
NOV 13 2025
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Sent To: Philip Brian Drew
Street and Apt. No., or PO Box No.: 2015 N Main St.
City, State, ZIP+4®: Logan, UT 84341

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Lone Tree, CO 80124

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03
Postmark Here
NOV 13 2025
11/13/2025

Sent To: Heritage Oil Co. c/o Ralph A. Dinkel
Street and Apt. No., or PO Box No.: 8685 E. Lincoln Ave., #250
City, State, ZIP+4®: Lone Tree, CO 80124

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Brighton, CO 80602

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03
Postmark Here
NOV 13 2025
11/13/2025

Sent To: Billis Ranch Solar LLC
Street and Apt. No., or PO Box No.: 12152 E 168th Ave
City, State, ZIP+4®: Brighton, CO 80602

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Warrenton, OR 97146

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

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NOV 13 2025
11/13/2025
80219 USPS
LOWOOD STATION DENVER CO

Sent To: Jeanette Wilcox
Street and Apt. No., or PO Box No.: Route 1, Box 521, Space #53
City, State, ZIP+4®: Warrenton, OR 97146

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Arvada, CO 80004

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

Postmark Here
NOV 13 2025
11/13/2025
80219 USPS
LOWOOD STATION DENVER CO

Sent To: Robert Drew
Street and Apt. No., or PO Box No.: 6459 Zang St, Apt. A
City, State, ZIP+4®: Arvada, CO 80004

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Greeley, CO 80634

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

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NOV 13 2025
11/13/2025
80219 USPS
LOWOOD STATION DENVER CO

Sent To: Delbert Drew
Street and Apt. No., or PO Box No.: 823 27th Ave
City, State, ZIP+4®: Greeley, CO 80634

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Denver, CO 80203

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

Postmark Here
NOV 13 2025
11/13/2025
80219 USPS
LOWOOD STATION DENVER CO

Sent To: Curtis E. Drew
Street and Apt. No., or PO Box No.: 899 Pearl St, Apt. #2
City, State, ZIP+4®: Denver, CO 80203-3321

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Fairborn, OH 45324

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025
11/13/2025
80219 USPS
LOWOOD STATION DENVER CO

Sent To: Brad Cooper
Street and Apt. No., or PO Box No.: 500 Kauffman Ave
City, State, ZIP+4®: Fairborn, OH 45324

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Fort Morgan, CO 80701

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☐ Return Receipt (hardcopy)	$0.00
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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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NOV 13 2025
11/13/2025
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LOWOOD STATION DENVER CO

Sent To: Triple T Investments
Street and Apt. No., or PO Box No.: 15366 Road O
City, State, ZIP+4®: Fort Morgan, CO 80701

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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WESTWOOD STATION DENVER CO
NOV 13 2025
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11/13/2025

Sent To: Gary Hudson
Street and Apt. No., or PO Box No.: 7795 Normandy Ln
City, State, ZIP+4®: Centerville, OH 45459

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Denver, CO 80233

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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

WESTWOOD STATION DENVER CO
NOV 13 2025
80219 USPS

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11/13/2025

Sent To: Elisa Drew
Street and Apt. No., or PO Box No.: 3427 E. 117th Pl
City, State, ZIP+4®: Thornton, CO 80233

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Weldona, CO 80653

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

WESTWOOD STATION DENVER CO
NOV 13 2025
80219 USPS

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11/13/2025

Sent To: Susan Hergenreter c/o
Street and Apt. No., or PO Box No.: 84577 Highway 144
City, State, ZIP+4®: Weldona, CO 80653

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Weldona, CO 80653

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

WESTWOOD STATION DENVER CO
NOV 13 2025
80219 USPS

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11/13/2025

Sent To: Colleen K. Gilliland c/o
Street and Apt. No., or PO Box No.: 84577 Highway 144
City, State, ZIP+4®: Weldona, CO 80653

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Midlothian, VA 23112

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

WESTWOOD STATION DENVER CO
NOV 13 2025
80219 USPS

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11/13/2025

Sent To: Pam Roberts aka Pam Taylor
Street and Apt. No., or PO Box No.: 4624 Valley Overlook Dr, Apt. 206
City, State, ZIP+4®: Midlothian, VA 23112

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Bismarck, ND 58504

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0068 03

WESTWOOD STATION DENVER CO
NOV 13 2025
80219 USPS

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11/13/2025

Sent To: John Edward Drew
Street and Apt. No., or PO Box No.: 1337 Albany Dr
City, State, ZIP+4®: Bismarck, ND 58504

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Thornton, CO 80241

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

WESTWOOD STATION DENVER CO
NOV 13 2025
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11/13/2025
80219 USPS

Sent To: John Michael Drew
Street and Apt. No., or PO Box No.: 12063 Glencoe St
City, State, ZIP+4®: Thornton, CO 80241

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Fort Morgan, CO 80701

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

WESTWOOD STATION DENVER CO
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Sent To: Daniele Drew
Street and Apt. No., or PO Box No.: 1100 Linda St, Apt. A117
City, State, ZIP+4®: Fort Morgan Rd, CO 80701

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Fort Morgan, CO 80701

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

WESTWOOD STATION DENVER CO
NOV 13 2025
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0068 03
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80219 USPS

Sent To: Donald Drew
Street and Apt. No., or PO Box No.: 321 S Lake St
City, State, ZIP+4®: Fort Morgan, CO 80701

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

Big Sandy-Badger Creek 230-kV Transmission Project
Tri-State Generation and Transmission Association, Inc.

Property Owner Search Process

Mineral Owners: Tri-State contracted a mineral title search out to ETR Land Services for the Badger Creek Switching Station parcel. The mineral title search was completed and submitted to Tri-State on 8-8-2025. ETR Land Services provided mineral deeds, mineral owner addresses, and percentage of ownership.

Surface Owners: The Tri-State Land Rights Department conducted a search for landowners within 500 feet of the proposed transmission centerline. For the parcels proposed to be crossed by the transmission line, Tri-State used its existing records for landowner contact information, collected from and verified by a combination of title research and individual meetings with landowners. This information has been collected over the past two years and was cross-checked with the Morgan County Parcel Viewer on 12-4-2025. For landowners that are within 500 feet of the proposed centerline but not crossed by the route, Tri-State obtained contact information using the Morgan County Parcel Viewer website. That data is solely based on the Morgan County Parcel Viewer website, and the search was conducted on 12-4-2025.

Table 1. Landowner Names and Addresses: All Parcels.

Parcel ID	Landowner Name	Section	Township	Range	Street Address	City	State	Zip	Comment
149134000002	Joseph R & Ann M Archuleta	35	1N	56W	PO Box 922	Snyder	CO	80750	CL on
149135000002	Randy Owen Fiscus & Lynn R Dilley	35	1N	56W	PO Box 803	Brush	CO	80723	CL within 500 feet
149134000001	Douglas Queen	34	1N	56W	PO Box 731	Brush	CO	80723	CL on
149135000001	CRAIG J & SHARON L Quick REVOCABLE TRUST	34	1N	56W	26306 CO RD J	Woodrow	Co	80757	CL within 500 feet
149127000001	Curtis Ranch LLP	27	1N	56W	32702 CO RD V	Brush	CO	80723	CL on
149126000002	CRAIG J & SHARON L Quick REVOCABLE TRUST	26	1N	56W	26306 CO RD J	Woodrow	Co	80757	CL within 500 feet
149126000001	DORIS J CHENOWETH TRUST, In Care Of Beth Pfos	26	1N	56W	11373 JERSEY WAY	Thornton	Co	80233	CL within 500 feet
149122000001	Curtis Ranch LLP	24	1N	57W	32702 CO RD V	Brush	CO	80723	CL on
149122000002	Curtis Ranch LLP	24	1N	58W	32702 CO RD V	Brush	CO	80723	CL on
149123000002	DORIS J CHENOWETH TRUST, In Care Of Beth Pfos	24	1N	58W	11373 JERSEY WAY	Thornton	Co	80233	CL within 500 feet
149123000001	Curtis Ranch LLP	24	1N	59W	32702 CO RD V	Brush	CO	80723	CL within 500 feet
149121000001	Curtis Ranch LLP	23	1N	56W	32702 CO RD V	Brush	CO	80723	CL on
149121000002	DJD David Properties LLC	23	1N	56W	7300 CO RD 15	Fort Morgan	CO	80701	CL on
149120000001	DJD David Properties LLC	23	1N	57W	7300 CO RD 15	Fort Morgan	CO	80701	CL on
149119000001	Shifting Sands Ranch, LLC	23	1N	57W	PO Box 175	Roggen	CO	80652	CL on
148924000001	Shifting Sands Ranch, LLC	23	1N	57W	PO Box 175	Roggen	CO	80652	CL on
148923000001	Shifting Sands Ranch, LLC	23	1N	58W	PO Box 175	Roggen	CO	80652	CL on
148923000004	LEWTON LAND CO	23	1N	58W	47500 E 144TH AVE	Bennett	CO	80102	CL within 500 feet
148923000003	LEWTON LAND CO	22	1N	56W	47500 E 144TH AVE	Bennett	CO	80102	CL within 500 feet
148922000001	Shifting Sands Ranch, LLC	22	1N	56W	PO Box 175	Roggen	CO	80652	CL on
148922000002	Glenn Ranch & Cattle Company RLLP	22	1N	57W	6432 CO RD 19	Fort Morgan	CO	80701	CL on
148922000004	LEWTON LAND CO	22	1N	57W	47500 E 144TH AVE	Bennett	CO	80102	CL within 500 feet
148921000001	Glenn Ranch & Cattle Company RLLP	22	1N	57W	6432 CO RD 19	Fort Morgan	CO	80701	CL on
148921000002	LEWTON LAND CO	22	1N	58W	47500 E 144TH AVE	Bennett	CO	80102	CL within 500 feet
148920000001	Glenn Ranch & Cattle Company RLLP	22	1N	58W	6432 CO RD 19	Fort Morgan	CO	80701	CL on
148917000001	Glenn Ranch & Cattle Company RLLP	21	1N	56W	6432 CO RD 19	Fort Morgan	CO	80701	CL within 500 feet
148919000003	TAMMY JESS TRUST	21	1N	56W	17265 CO RD V	Fort Morgan	CO	80701	CL within 500 feet
148918000002	Terry Musgrave	21	1N	57W	2614 CO RD 18	Fort Morgan	CO	80701	CL on
148919000001	Terry Musgrave	21	1N	57W	2614 CO RD 18	Fort Morgan	CO	80701	CL on
148724000002	Terry Musgrave	21	1N	58W	2614 CO RD 18	Fort Morgan	CO	80701	CL on
148713000004	TAMMY JESS TRUST	20	1N	56W	17265 CO RD V	Fort Morgan	CO	80701	CL within 500 feet
148724000001	Madeleine Drake	20	1N	57W	1351 W 27th Dr	San Pedro	Ca	90731	CL on
148713000003	IRENE NELLIE & CARY DAVID STRAUSS ET AL	20	1N	58W	6837 W FELLET LN	Lakewood	CO	80227	CL within 500 feet

148723000001	Eldon D & Karen K Hawes	19	1N	56W	3757 CO RD 14	Fort Morgan	CO	80701 CL on
148714000002	Madeleine Drake	19	1N	57W	1351 W 27th Dr	San Pedro	Ca	90731 CL within 500 feet
148723000002	Good Family Trust	19	1N	57W	22760 CO RD R	Fort Morgan	CO	80701 CL on
148714000001	Good Family Trust	19	1N	58W	22760 CO RD R	Fort Morgan	CO	80701 CL within 500 feet
148722000001	Ruth Mary Beardsley & DIANE LOUISE LAW	18	1N	57W	PO BOX 567	Gold Bar	WA	98251 CL on
148715000003	ROBMAR LLC	18	1N	58W	22760 CO RD R	Fort Morgan	CO	80701 CL within 500 feet
148722000002	Linnebur Grain & Buffalo LLLP	18	1N	58W	74600 HWY 36	Byers	CO	80103 CL on
148715000002	Linnebur Grain & Buffalo LLLP	17	1N	57W	74600 HWY 36	Byers	CO	80103 CL within 500 feet
148721000001	Linnebur Grain & Buffalo LLLP	17	1N	58W	74600 HWY 36	Byers	CO	80103 CL on
148716000900	STATE OF COLORADO	17	1N	58W	1313 SHERMAN ST - RM 620	Denver	CO	80203 CL within 500 feet
148720000001	Eldon D & Karen K Hawes	16	1N	58W	3757 CO RD 14	Fort Morgan	CO	80701 CL on
148717000001	Eldon D & Karen K Hawes	15	1N	58W	3757 CO RD 14	Fort Morgan	CO	80701 CL within 500 feet
148717000002	Eldon D & Karen K Hawes	15	1N	58W	3757 CO RD 14	Fort Morgan	CO	80701 CL within 500 feet
148719000001	Eldon D & Karen K Hawes	14	1N	58W	3757 CO RD 14	Fort Morgan	CO	80701 CL on
148718000001	Eldon D & Karen K Hawes	14	1N	58W	3757 CO RD 14	Fort Morgan	CO	80701 CL within 500 feet
148718000002	Freund Investments LLC	13	1N	58W	15460 E Batavia Dr	Aurora	CO	80011 CL within 500 feet
148524000001	Jerry D and Monica L Wolfswinkel	13	1N	58W	8269 CO RD F	Wiggins	CO	80654 CL on
148513000001	Jerry D and Monica L Wolfswinkel	13	1N	59W	8269 CO RD F	Wiggins	CO	80654 CL on
148512000002	Freund Investments LLC	12	1N	59W	15460 E Batavia Dr	Aurora	CO	80011 CL on
148707000003	Freund Investments LLC	12	1N	59W	15460 E Batavia Dr	Aurora	CO	80011 CL within 500 feet
148512000001	Billis Ranch Solar LLC	11	1N	59W	12152 E 168th Ave	Brighton	CO	80602 CL on
148707000002	KUHLMAN, HOWARD ET AL	7	1N	59W	1679 WILDFLOWER DR	Brighton	CO	80601 CL within 500 feet
148511000001	Billis Ranch Solar LLC	7	1N	59W	12152 E 168th Ave	Brighton	CO	80602 CL on
148501000001	Billis Ranch Solar LLC	2	1N	59W	12152 E 168th Ave	Brighton	CO	80602 CL within 500 feet
148502000001	Billis Ranch Solar LLC	1	1N	59W	12152 E 168th Ave	Brighton	CO	80602 CL within 500 feet

Table 2. Landowner Names and Addresses: Repeats Removed.

Landowner Name	Street Address	City	State	Zip
Billis Ranch Solar LLC	12152 E 168th Ave	Brighton	CO	80602
CRAIG J & SHARON L Quick REVOCABLE TRUST	26306 CO RD J	Woodrow	Co	80757
Curtis Ranch LLP	32702 CO RD V	Brush	CO	80723
DJD David Properties LLC	7300 CO RD 15	Fort Morgan	CO	80701
DORIS J CHENOWETH TRUST, In Care Of Beth Pfost	11373 JERSEY WAY	Thornton	Co	80233
Douglas Queen	PO Box 731	Brush	CO	80723
Eldon D & Karen K Hawes	3757 CO RD 14	Fort Morgan	CO	80701
Freund Investments LLC	15460 E Batavia Dr	Aurora	CO	80011
Glenn Ranch & Cattle Company RLLP	6432 CO RD 19	Fort Morgan	CO	80701
Good Family Trust	22760 CO RD R	Fort Morgan	CO	80701
IRENE NELLIE & CARY DAVID STRAUSS ET AL	6837 W FELLET LN	Lakewood	CO	80227
Jerry D and Monica L Wolfswinkel	8269 CO RD F	Wiggins	CO	80654
Joseph R & Ann M Archuleta	PO Box 922	Snyder	CO	80750
KUHLMAN, HOWARD ET AL	1679 WILDFLOWER DR	Brighton	CO	80601
LEWTON LAND CO	47500 E 144TH AVE	Bennett	CO	80102
Linnebur Grain & Buffalo LLLP	74600 HWY 36	Byers	CO	80103
Madeleine Drake	1351 W 27th Dr	San Pedro	Ca	90731
Randy Owen Fiscus & Lynn R Dilley	PO Box 803	Brush	CO	80723
ROBMAR LLC	22760 CO RD R	Fort Morgan	CO	80701
Ruth Mary Beardsley & DIANE LOUISE LAW	PO BOX 567	Gold Bar	WA	98251
Shifting Sands Ranch, LLC	PO Box 175	Roggen	CO	80652
STATE OF COLORADO	1313 SHERMAN ST - RM 620	Denver	CO	80203
TAMMY JESS TRUST	17265 CO RD V	Fort Morgan	CO	80701
Terry Musgrave	2614 CO RD 18	Fort Morgan	CO	80701

ETR Land Services, LLC

P.O. Box 476
Timnath CO 80547

MINERAL OWNERSHIP REPORT

Morgan County, CO

Township 1 North, Range 59 West, 6th P.M.
Section 11: All

Containing 640.00 acres, more or less

Morgan County Records inspected from Patent through 7/31/2025

MINERAL INTEREST OWNER	INTEREST	NET ACRES	LEASEHOLD STATUS
Billis Ranch Solar LLC 12152 E 168th Ave. Brighton, CO 80602 **Vesting Document:** Quit Claim Deed: Rec. No. 939854 See Note 4	62.5000%	400.00000	**APPEARS OPEN**
Heritage Oil Co. c/o Ralph A. Dinkel 8683 E. Lincoln Ave. #250 Lone Tree, CO 80124 **Vesting Document:** Mineral Deed: Rec. No. 872175	6.2500%	40.00000	**APPEARS OPEN**
Triple T Investments, LLC 15366 Road O Fort Morgan, CO 80701 **Vesting Document:** Quit Claim Mineral Deed: Rec. No. 872536	6.2500%	40.00000	**APPEARS OPEN**
Estate of Fenner N. Cunningham, dec'd **Vesting Document:** Warranty Deed: Rec. No. 403981 See Note 3	6.2500%	40.00000	**APPEARS OPEN**
Estate of Amanta M. Cunningham, dec'd **Vesting Document:** Warranty Deed: Rec. No. 403981 See Note 3	6.2500%	40.00000	**APPEARS OPEN**
Ellen McCauley UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281 See Note 4	1.5625%	10.00000	**APPEARS OPEN**
Margaret McCauley UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281 See Note 4	1.5625%	10.00000	**APPEARS OPEN**
Teresa Naughton UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281	1.5625%	10.00000	**APPEARS OPEN**

See Note 4			
Annie Gallagher UNKNOWN **Vesting Document:** Mineral Deed: Rec. No. 732281 See Note 4	1.5625%	10.00000	**APPEARS OPEN**
Robert Drew 6459 A Zang St., Apt. #A Arvada, CO 8004 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Jeannette Wilcox Route 1 – Box 521, Space #53 Warrenton, OR 97146 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Curtis E. Drew 899 Pearl St., Apt. #2 Denver, CO 80203-3321 **Vesting Document:** Affidavit of Heirship: Rec. No. 874729 Affidavit of Heirship: Rec. No. 874730 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Delbert Drew 823 27th Ave. Greeley, CO 80634 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Donald Drew 321 South Lake St. Fort Morgan, CO 80701 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
John J. Hegarty 9787 West Peak View Dr. Littleton, CO 80123-3195 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Warren Drew 4399 Pinto Rd. Kingman, AZ 86401 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Pricilla Peters 6891 East 80th Ave. Commerce City, CO 80022	0.3472%	2.22222	**APPEARS OPEN**

Vesting Document: PR Deed: Rec. No. 725689 See Note 4			
Patricia Ann Regan as Trustee of Patricia A. Regan Living Trust UNKNOWN **Vesting Document:** Trust Deed: Rec. No. 939105 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Phyllis Pompilil 2007 Unit D Aurora CO, 80013 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
John Michael Drew 12063 Glencoe St. Thornton, CO 80241 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Daniece Drew 1100 Linda St., Apt. A117 Fort Morgan, CO 80701 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd Attn: McClary Law P.O. Box 597 Fort Morgan, CO 80701 **Vesting Document:** Letters Testamentary: Rec. No. 925498 See Note 4	0.3472%	2.22222	**APPEARS OPEN**
Pam Roberts, ala Pam Taylor 4624 Valley Overlook Dr., Apt. 206 Midlothian, VA 23112 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.1736%	1.11111	**APPEARS OPEN**
David Roberts aka Michael David Roberts 1442 Pinecone St. Moscow, ID 83843 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.1736%	1.11111	**APPEARS OPEN**
Crisanne Orgaard 3717 Normandy St. Bismarck, ND 58503 **Vesting Document:** Quit Claim Deed: Rec. No. 903273 See Note 4	0.1157%	0.74074	**APPEARS OPEN**

Kay Renee Bear 14905 E. Alki Ln. Spokane Valley, WA 99216 **Vesting Document:** Quit Claim Deed: Rec. No. 903273 See Note 4	0.1157%	0.74074	**APPEARS OPEN**
John Edward Drew 1337 Albany Dr. Bismarck, ND 58504 **Vesting Document:** Quit Claim Deed: Rec. No. 903273 See Note 4	0.1157%	0.74074	**APPEARS OPEN**
Jim Drew aka James Drew P.O. Box 1235 Jamestown, ND 585401 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.1157%	0.74074	**APPEARS OPEN**
Rae Ann Drew HCR Route 38, Box 70 Las Vegas, NV 89124-9105 **Vesting Document:** PR Deed: Rec. No. 725689 See Note 4	0.1157%	0.74074	**APPEARS OPEN**
Susan M. Hergenreter c/o 84577 Highway 144 Weldona, CO 80653 **Vesting Document:** PR Deed: Rec. No. 892517 See Note 4	0.0868%	0.55556	**APPEARS OPEN**
Ronald E. Cox c/o 84577 Highway 144 Weldona, CO 80653 **Vesting Document:** PR Deed: Rec. No. 892517 See Note 4	0.0868%	0.55556	**APPEARS OPEN**
Kathleen L. Lorenzini c/o 84577 Highway 144 Weldona, CO 80653 **Vesting Document:** PR Deed: Rec. No. 892517	0.0868%	0.55556	**APPEARS OPEN**
Colleen K. Gilliland c/o 84577 Highway 144 Weldona, CO 80653 **Vesting Document:** PR Deed: Rec. No. 892517 See Note 4	0.0868%	0.55556	**APPEARS OPEN**
Carol Easter 29 Hartford Dr. Lucasville, OH 45648 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**

Connie Evans 1510 Lake Point Way, Unit 43 Centerville, OH 45459 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**
Gary Hudson 7795 Normandy Ln. Centerville, OH 45459 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**
Gregg Hudson 2700 Richlawn Cir. Kettering, OH 45440 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0694%	0.44444	**APPEARS OPEN**
Elisa Drew 3427 E. 117th Place Thornton, CO 80233 **Vesting Document:** Affidavit of Heirship: Rec. No. 873905 See Note 4	0.0579%	0.37037	**APPEARS OPEN**
Phillip Brian Drew 2015 N. Main Logan, UT 84341 **Vesting Document:** Affidavit of Heirship: Rec. No. 873905 See Note 4	0.0579%	0.37037	**APPEARS OPEN**
Renee Gibbs 500 Kauffman Ave. Fairborn OH 45324 **Vesting Document:** Affidavit of Heirship: Rec. No. 873842 See Note 4	0.0347%	0.22222	**APPEARS OPEN**
Brad Cooper 500 Kauffman Ave. Fairborn OH 45324 **Vesting Document:** Affidavit of Heirship: Rec. No. 873843 See Note 4	0.0347%	0.22222	**APPEARS OPEN**
TOTAL	**100.000000%**	**640.00000**	

Tax Info: Account: R010870
Parcel #: 1485-110-00-001

Liens: Not checked

Mortgages: Not checked

Production/Permits: Pursuant to a search of the Colorado Oil and Gas Conservation Commission website (http://cogcc.state.co.us/) on 8/3/2025, there are no producing wells in Section 11, Township 1 North, Range 59 West, 6th p.m.

Title Notes:

1. Anthony Malick obtained the E2 of Section 11 through a patent from the United States found at Reception Number 537599 dated July 11, 1916. The next conveyance of this property is from the estate Anna Malick, by decree found at Reception Number 372779, dated October 18, 1951. Further curative may be needed to find a probate record for Anthony Malick to ensure Anna Malick was his heir.

2. Ben, Andrew, John and Frank Malick conveyed all of Section 11 to Fenner and Amanta Cunningham by Warranty Deed found at Reception Number 384939, dated January 7, 1953. In this deed they reserved an undivided one-half of a non-participating royalty. No further information, including addresses for the Malick's are found of record.

3. Fenner and Amanta Cunningham, et al conveyed all of Section 11 to James Hegarty by Warranty Deed found at Reception Number 550911, dated October 4, 1968. In this deed, they reserved an undivided ¼ interest in and to all oil, gas and other minerals. It appears that Fenner and Amanta Cunningham are deceased. It appears through Quitclaim Mineral Deeds found at Reception Numbers 769692 and 769693, Donald F. Cunningham and Delbert C. Cunningham are their heirs. However, curative will be needed to locate the probate for Fenner and Amanta Cunningham to verify their heirs.

4. John and Bernice Higgins conveyed 1/8 minerals to all of Section 11 to Farmers State Bank, Trustee, by Mineral Deed found at Reception Number 572935. In this mineral deed, they specifically reserved all executive rights. These rights are now owned by the current mineral owner, Billis Ranch Solar, LLC.

The above-described lands may be subject to possible unrecorded changes in ownership not found in the county records. This Ownership Report is intended to cover instruments properly indexed in the Morgan County Clerk and Recorder's Office and from selected, related court and/or real estate records in connection with the subject lands. This report was made solely for the benefit of ETR Land Services, LLC for the purpose of assisting in a determination of apparent public record ownership and leasehold status of the mineral lands involved. The instruments and records referred to and reported on have not been examined to determine their legal sufficiency. No warranty of title is expressed or implied in the accompanying report. ETR Land Services, LLC and the undersigned accept no liability for the use of the material contained herein.

Prepared By: Erica McCormac, ETR Land Services, LLC
Dated: August 5, 2025

Property Record Card

Morgan

BILLIS RANCH SOLAR LLC

12152 E 168TH AVE
BRIGHTON, CO 80602

Account: R010870
Tax Area: 227 - RE 3
Acres: 640.000

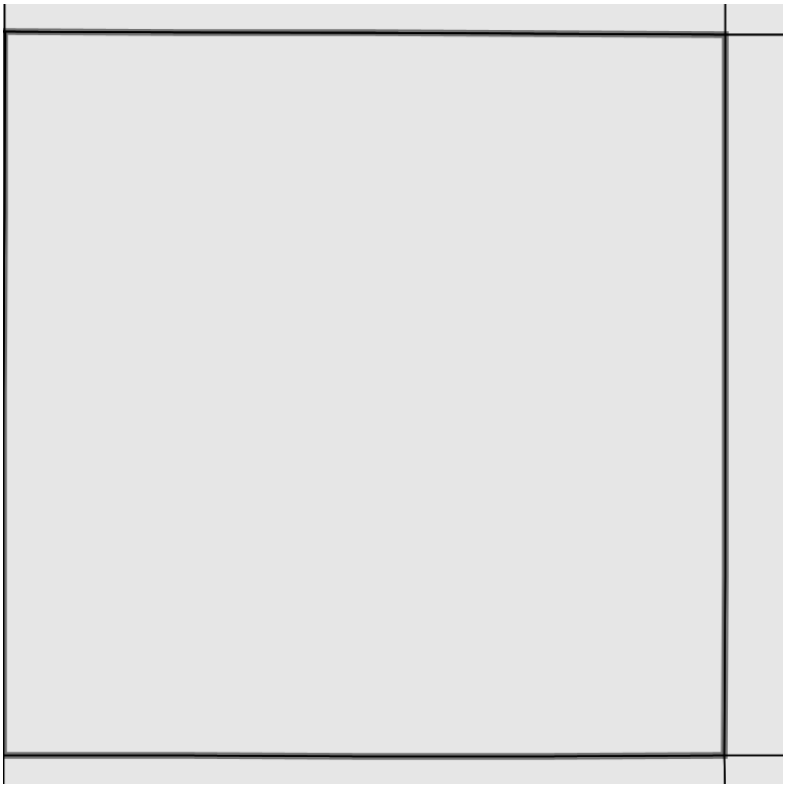
Parcel: 1485-110-00-001
Situs Address:

Account Type 4000 - AG

Value Summary

Value By:	Market	Override
Land (1)	$19,540	N/A
Land (2)	$1,920	N/A
Land (3)	$50	N/A
Total	**$21,510**	**$21,510**

Legal Description
S: 11 T: 1 R: 59 ALL



Sale Data

Doc. #	Sale Date	Deed Type	Validity	Verified	Sale Price	Ratio	Adj. Price	Ratio	Time Adj. Price	Ratio
823370	12/17/2004	SWD	UI	N	$1,399,600	1.54	$1,399,600	1.54	$1,399,600	1.54

Land Occurrence 1

Property Code 4147 - GRAZING LAND Land Use Code 414720 - GR GB1

SubArea		FOOTPRINT	ACTUAL	EFFECTIVE	HEATED
Acres			552		
Total			552.00		
	Value	Rate	Rate	Rate	Rate
	$19,540		35.40		

Property Record Card

Morgan

Land Occurrence 2

Property Code	4147 - GRAZING LAND	Land Use Code	414730 - GR GC1

SubArea		FOOTPRINT	ACTUAL	EFFECTIVE	HEATED
Acres			80		
Total			80.00		
	Value	**Rate**	**Rate**	**Rate**	**Rate**
	$1,920		24.00		

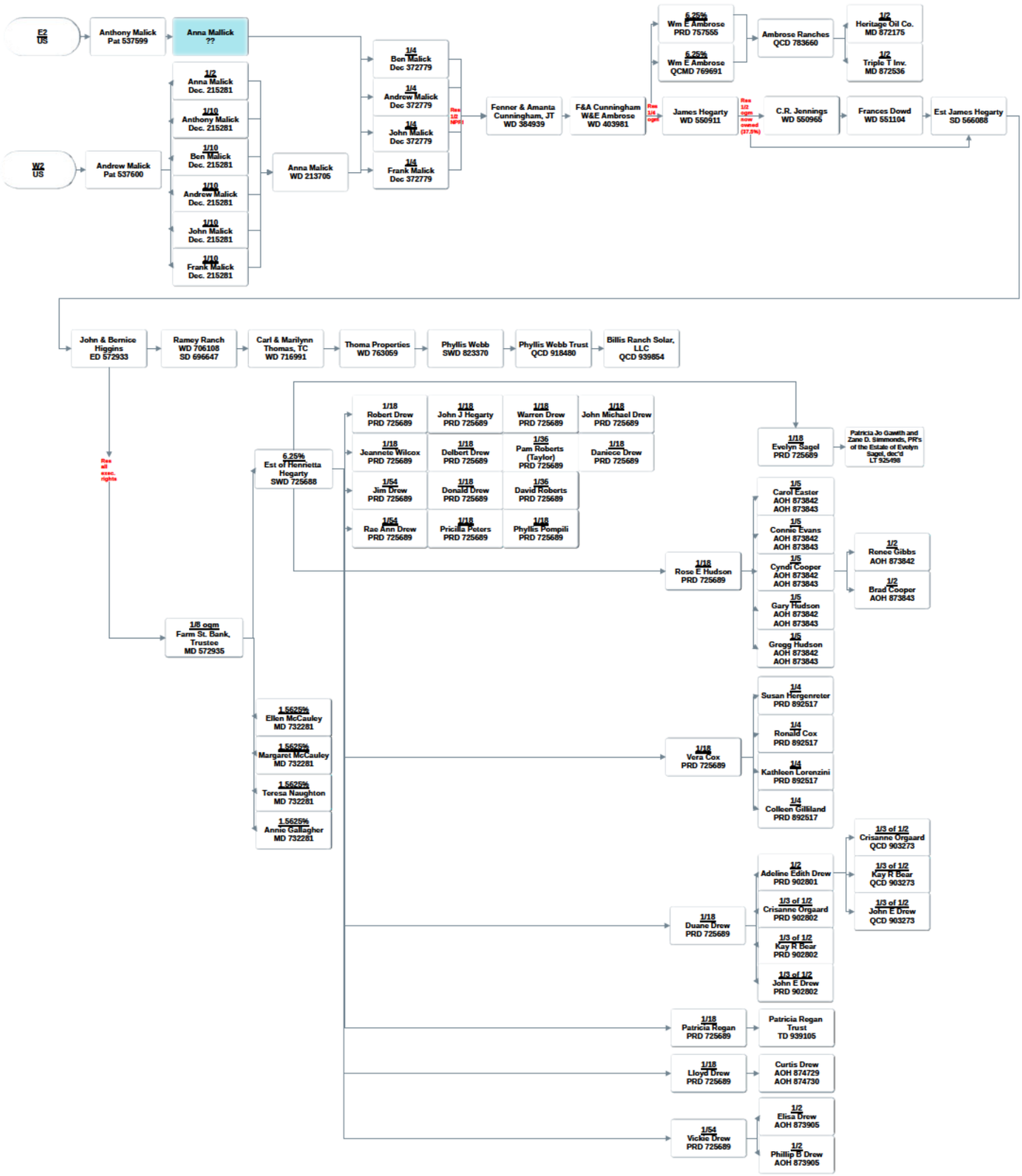
Land Occurrence 3

Property Code	4167 - FARM/RANCH WASTE LAND	Land Use Code	416760 - ROAD/DITCH

SubArea		FOOTPRINT	ACTUAL	EFFECTIVE	HEATED
Acres			8		
Total			8.00		
	Value	**Rate**	**Rate**	**Rate**	**Rate**
	$50		6.25		

Abstract Summary

Code	Classification	Non-School Actual Value	Non-School Taxable Value	School Actual Value	School Taxable Value	Actual Value Override	Taxable Override
4147	GRAZING LAND	$21,460	$5,790	$21,460	$5,790	$21,460	$5,790
4167	FARM/RANCH WASTE LAND	$50	$10	$50	$10	$50	$10
Total		**$21,510**	**$5,800**	**$21,510**	**$5,800**	**$21,510**	**$5,800**



T1N-R59W Sec. 11

MINERAL TITLE RUN SHEET

Township 1 North - Range 59 West, Section 11: ALL
Morgan County, Colorado
From Patent to 7/31/2025

REC. NO.	INST.	EFF. DATE	REC. DATE	GRANTOR	GRANTEE	DESCRIPTION	COMMENTS
537599 BLM	Patent	7/11/1916	7/11/1916	United States of America	Anthony Malick	T1N-R59W Sec. 11: E2 320 ac.	NMR
537600 BLM	Patent	7/11/1916	7/11/1916	United States of America	Andrew Malick	T1N-R59W Sec. 11: W2 320 ac.	NMR
215281	Decree	4/29/1932	5/5/1932	In the Matter of the interests of Andrew Malick, dec'd	Anna Malick, 1/2 Anthony Malick, 1/10 Ben Malick, 1/10 Andrew Malick, 1/10 John Malick, 1/10 Frank Malick, 1/10	T1N-R59W Sec. 11: W2 320 ac.	NMR
213705	Warranty Deed	1/26/1932	2/23/1932	Anthony Malick, Andrew Malick, John Malick, Frank Malick and Ben Malick, heirs of Andrew Malick, dec'd	Anna Malick	T1N-R59W Sec. 11: W2 320 ac.	NMR
372779	Decree	#######	#######	In the Matter of the interests of Anna Malick, dec'd	Ben Malick, 1/4 Andrew Malick, 1/4 John Malick, 1/4 Frank Malick, 1/4	T1N-R59W Sec. 11: All	NMR
384939	Warranty Deed	1/7/1953	2/26/1953	Ben Malik, Frank Malik, Andrew Malick and John Malik	Fenner N. Cunningham and Amanta M. Cunnigham, JTWROS	T1N-R59W Sec. 11: All	Grantors res 1/2 NPRI
403981	Warranty Deed	11/5/1954	11/5/1954	Fenner N. Cunningham and Amanta M. Cunnigham	Fenner N. Cunningham and Amanta M. Cunnigham, h/w and William E. Ambrose and Eva L. Ambrose, h/w	T1N-R59W Sec. 11: All	NMR
550911	Warranty Deed	10/4/1968	#######	Fenner N. Cunningham and Amanta M. Cunnigham, h/w and William E. Ambrose and Eva L. Ambrose, h/w	James Hegarty	T1N-R59W Sec. 11: All	Res und 1/4 ogm
550965	Warranty Deed	#######	#######	James Hegarty	C. R. Jennings	T1N-R59W Sec. 11: All	Res und 1/2 ogm now owned (37.5% RTI)
551104	Warranty Deed	#######	#######	C. R. Jennings	Frances E. Dowd	T1N-R59W Sec. 11: All W.O.L.	NMR

566088	Sheriff's Deed	6/14/1971	6/14/1971	Sheriff of Morgan County	Henrietta Hegarty, executrix of the Estate of James Hegarty, dec'd	T1N-R59W Sec. 11: All	NMR
570274	Order	5/16/1963	1/20/1972	In the Matter of the Estate of James Hegarty, dec'd	Henrietta Hegerty, then upon death to sister and nieces	N/A	NMR
572933	Executrix Deed	6/1/1972	6/1/1972	Henrietta Hegarty, executrix of the Estate of James Hegarty, dec'd	John G. Higgins and Bernice Higgins	T1N-R59W Sec. 11: All	NMR
572935	Mineral Deed	6/1/1972	6/1/1972	John G. Higgins and Bernice Higgins	The Farmers State Bank of Fort Morgan, Trustee	T1N-R59W Sec. 11: All	Conveys und 1/8 ogm; res all executive rights
574019	Decree	7/20/1972	7/25/1972	In the Matter of the Estate of James Hegarty, dec'd	Farmers State Bank of Fort Morgan, Trustee (Martial Trust), 50% Farmers State Bank of Fort Morgan, Trustee, 50%	N/A	NMR
706108	Warranty Deed	2/7/1974	12/7/1987	John G. Higgins and Bernice Higgins	Ramey Ranch Co.	T1N-R59W Sec. 11: All W.O.L.	Res und 1/2 ogm now owned for 15 years (expired)
666431	Quit Claim Deed	9/20/1982	#######	Colorado National Bank of Denver	Ramey Ranch Co.	T1N-R59W Sec. 11: All W.O.L.	NMR
696647	Sheriff's Deed	4/13/1986	5/13/1986	Sheriff of Morgan County	Ramey Ranch Co.	T1N-R59W Sec. 11: All W.O.L.	NMR
716991	Warranty Deed	#######	#######	Ramey Ranch Co.	Carl D. Thomas and Marilynn J. Thomas, TC	T1N-R59W Sec. 11: All W.O.L.	NMR
725688	Special Warranty Deed	5/1/1991	6/27/1991	The Farmers State Bank of Fort Morgan, Trustee	John J. Hegarty, PR of the Estate of Henrietta Hegarty	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of und 1/8 ogm

725689	Personal Rep's Deed	5/1/1991	6/27/1991	John J. Hegarty, PR of the Estate of Henrietta Hegarty	Robert Drew, 1/18 Duane Drew, 1/18 Jeannete Wilcox, 1/18 Jim Drew, 1/54 Vickie Drew, 1/54 Rae Ann Drew, 1/54 Lloyd Drew, 1/18 Delbert Drew, 1/18 Donald Drew, 1/18 Vera Cox, 1/18 John J. Hegarty, 1/18 Rose Ellen Hudson, 1/18 Warren Drew, 1/18 Pam Roberts aka Pam Taylor, 1/36 David Roberts aka Michael David Roberts, 1/36 Pricilla Peters, 1/18 Patricia Regan, 1/18 Phyllis Pompili, 1/18 John Michael Drew, 1/18 Daniece Drew, 1/18 Evelyn Sagel, 1/18	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of und 1/8 ogm
732281	Mineral Deed	9/17/1992	9/18/1992	The Farmers State Bank of Fort Morgan, Trustee	Ellen McCauley, Margaret McCauley, Teresa Naughton and Annie Gallagher	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of und 1/8 ogm
757555	Personal Rep's Deed	8/21/1996	9/19/1996	Eva Jane Morton, PR of the Estate of William Ernest Ambrose, dec'd	William E. Ambrose	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
763059	Warranty Deed	1/6/1997	7/14/1997	Carl D. Thomas and Marilynn J. Thomas, TC	Thoma Properties, LLC	T1N-R59W Sec. 11: All W.O.L.	NMR
769691	Quit Claim Mineral Deed	2/13/1998	5/26/1998	Eva Jane Morton fka Eva Jane Ambrose	William E. Ambrose	T1N-R59W Sec. 11: All	Conveys all ogm
769692	Quit Claim Mineral Deed	2/13/1998	5/26/1998	Donald F. Cunningham	William E. Ambrose	T1N-R59W Sec. 11: All	Conveys all ogm
769693	Quit Claim Mineral Deed	2/10/1998	5/26/1998	Delbert C. Cunningham	William E. Ambrose	T1N-R59W Sec. 11: All	Conveys all ogm
783660	Quit Claim Deed	#######	3/13/2000	William E. Ambrose	Ambrose Ranches LLLP	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm

823370	Special Warranty Deed	#######	#######	Thoma Properties, LLC	Phyllis Webb	T1N-R59W Sec. 11: All W.O.L.	NMR
872175	Mineral Deed	#######	11/8/2011	Ambrose Ranches LLLP	Heritage Oil Company	T1N-R59W Sec. 11: All	Conveys 1/2 of ogm now owned
872536	Mineral Deed	#######	#######	Ambrose Ranches LLLP	Triple T Investments, LLC	T1N-R59W Sec. 11: All	Conveys all ogm
873842	Affidavit of Heirship		2/7/2012	Renee Gibbs, as to Rose Ellen Hudson, dec'd and Cyndi Cooper, dec'd	Carol Easter Connie Evans Cyndi Cooper - Renee Gibbs Gary Hudson Gregg Hudson	N/A	NMR
873843	Affidavit of Heirship		2/7/2012	Brad Cooper, as to Rose Ellen Hudson, dec'd and Cyndi Cooper, dec'd	Carol Easter Connie Evans Cyndi Cooper - Brad Cooper Gary Hudson Gregg Hudson	N/A	NMR
873905	Affidavit of Heirship		2/9/2012	Elisa Drew, as to Vickie Drew, dec'd	Elisa Drew Phillip Brian Drew	N/A	
874730	Affidavit of Heirship		3/22/2012	As to Lloyd Eugene Drew, dec'd	Alice Eileen Drew, wife Curtis Drew, son	N/A	NMR
874729	Affidavit of Heirship		3/22/2012	As to Alice Eileen Drew, dec'd	Curtis Drew, son	N/A	NMR
892517	Personal Rep's Deed	3/20/2015	3/24/2015	Susan M. Hergenreter and Kathleen L. Lorenzini, Co-PR's of the Estate of Vera Marie Cox aka Vera M. Cox, dec'd	Susan M. Hergenreter, Ronald E. Cox, Kathleen L. Lorenzini and Colleen K. Gilliland	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
902801	Personal Rep's Deed	#######	12/1/2016	Crisanne Orgaard, PR of the Estate of Duane Edward Drew, aka Duane E. Drew, dec'd	Adeline Edith Drew	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of ogm now owned
902802	Personal Rep's Deed	#######	12/1/2016	Crisanne Orgaard, PR of the Estate of Duane Edward Drew, aka Duane E. Drew, dec'd	Crisanne Orgaard, Kay Renee Bear, John Edward Drew, TC	T1N-R59W Sec. 11: All W.O.L.	Conveys 1/2 of ogm now owned
903273	Quit Claim Deed	#######	#######	Adeline Edith Drew	Crisanne Orgaard, Kay Renee Bear, John Edward Drew, TC	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
918480	Quit Claim Deed	5/17/2019	5/21/2019	Phyllis Webb	The Phyllis Ellen Webb Trust, dated May 17, 2019	T1N-R59W Sec. 11: All W.O.L.	NMR
925498	Letters Testamentary	4/30/2019	8/11/2020	In the Matter of the Estate of Evelyn Sagel aka Evelyn K. Sagel aka Evelyn Kimbal Sagel, dec'd	Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd	N/A	NMR

933707	Memo of Option Agreement for Lease	6/4/2021	6/23/2021	The Phyllis Ellen Webb Trust, dated May 17, 2019	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	12 months/36 month extension
939105	Trust Deed	2/28/2022	3/7/2022	Patricia Regan	Patricia Ann Regan as Trustee of Patricia A. Regan Living Trust	T1N-R59W Sec. 11: All W.O.L.	Conveys all ogm
939854	Quit Claim Deed	2/15/2022	4/8/2022	The Phyllis Ellen Webb Trust, dated May 17, 2019	Billis Ranch Solar, LLC	T1N-R59W Sec. 11: All W.O.L.	NMR
940492	Amendment to Memo of Option Agreement for Lease	4/15/2022	5/9/2022	The Phyllis Ellen Webb Trust, dated May 17, 2019	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	NMR
951871	Amendment to Memo of Option Agreement for Lease	6/3/2024	6/26/2024	The Phyllis Ellen Webb Trust, dated May 17, 2019	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	Extended to 60 months
952572	Amendment and Restated Memo of Option Agreement for Lease	8/7/2024	8/9/2024	Billis Ranch Solar, LLC	Hecate Energy Cheyenne Mountain Solar LLC	T1N-R59W Sec. 11: All W.O.L.	12/36/60 months
953664	Memo of Option Agreement for Purchase of Real Property	#######	#######	Billis Ranch Solar, LLC	Tri-State Generation and Transmission Association, Inc.	T1N-R59W Sec. 11: All	NMR

62.5000%	640.000	400.00000
6.2500%	640.000	40.00000
6.2500%	640.000	40.00000
6.2500%	640.000	40.00000
6.2500%	640.000	40.00000
1.5625%	640.000	10.00000
1.5625%	640.000	10.00000
1.5625%	640.000	10.00000
1.5625%	640.000	10.00000
0.3472%	640.000	2.22222
0.3472%	640.000	2.22222
0.3472%	640.000	2.22222
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0.3472%	640.000	2.22222
0.3472%	640.000	2.22222
0.1736%	640.000	1.11111
0.1736%	640.000	1.11111
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.1157%	640.000	0.74074
0.0868%	640.000	0.55556
0.0868%	640.000	0.55556
0.0868%	640.000	0.55556
0.0868%	640.000	0.55556
0.0694%	640.000	0.44444
0.0694%	640.000	0.44444
0.0694%	640.000	0.44444
0.0694%	640.000	0.44444
0.0579%	640.000	0.37037
0.0579%	640.000	0.37037
0.0347%	640.000	0.22222
0.0347%	640.000	0.22222
		640.00000
100.0000%		

Billis Ranch Solar LLC	400.00000
Heritage Oil Co.	40.00000
Triple T Investments	40.00000
Estate of Fenner Cunningham	40.00000
Estate of Amanta Cunningham	40.00000
Ellen McCualey	10.00000
Margaret McCauley	10.00000
Teresa Naughton	10.00000
Annie Gallagher	10.00000
Robert Drew	2.22222
Jeannete Wilcox	2.22222
Curtis Drew	2.22222
Delbert Drew	2.22222
Donald Drew	2.22222
John J. Hegarty	2.22222
Warren Drew	2.22222
Pricilla Peters	2.22222
Patricia Regan Trust	2.22222
Phyllis Pompili	2.22222
John Michael Drew	2.22222
Daniece Drew	2.22222
Patricia Jo Gawith and Zane D. Simmonds, PR's of the Estate of Evelyn Sagel, dec'd	2.22222
Pam Roberts aka Pam Taylor	1.11111
David Roberts aka	1.11111
Crisanne Orgaard	0.74074
Kay R Bear	0.74074
John E Drew	0.74074
Jim Drew aka James Drew	0.74074
Rae Ann Drew	0.74074
Susan Hergenreter	0.55556
Ronald Cox	0.55556
Kathleen Lorenzini	0.55556
Colleen Gilliland	0.55556
Carol Easter	0.44444
Connie Evans	0.44444
Gary Hudson	0.44444
Gregg Hudson	0.44444
Elisa Drew	0.37037
Phillip Brian Drew	0.37037
Renee Gibbs	0.22222
Brad Cooper	0.22222
	640.00000

RECEIPT

Morgan County

231 Ensign, Fort Morgan, CO 80701

(970) 542-3526

SAI2025-0001 | 1041

Receipt Number: 546123

Payment Amount: **$5,000.00**

November 6, 2025

Transaction Method	*Payer*	*Cashier*	*Reference Number*
Credit Card	Carrie Loyd	Cheryl Brindisi	CC3100470

Comments

Was paid on 6/25/2025

Assessed Fee Items

Fee items being paid by this payment

Assessed On	*Fee Item*	*Account Code*	*Assessed*	*Amount Paid*	*Balance Due*
11/06/25	Special Use - Manual		$5,000.00	$5,000.00	$0.00
		Totals:	$5,000.00	$5,000.00	
				Previous Payments	$0.00
				Remaining Balance Due	$0.00

Application Info

Property Address	**Property Owner**	**Property Owner Address**	**Valuation**
Throughout southern portion of Morgan County FORT MORGAN, CO 80701	Varies		

Description of Work

Tri-State Generation and Transmission 1041 to construct, operate and maintain a portion of the Big Sandy to Badger Creek 230-kV Transmission Project. Specifically for transmission upgrades. The Project spans 72 miles and extends through portions of Lincoln, Washington, and Morgan Counties in Eastern Colorado.

LANDOWNER LETTERS, REFERRALS & RESPONSES

Landowner Letter Sent & Responses Received

Referral Sent & Responses Received

Notification

MORGAN COUNTY
PLANNING AND ZONING DEPARTMENT

November 3, 2025

Dear Neighboring Landowners:

The following land use application is scheduled to be heard by the Morgan County Board of Commissioners on Tuesday, December 16, 2025 at 9:00 a.m. in the Assembly Room of the Morgan County Administration Building, 231 Ensign St., (Basement Level) Fort Morgan, Colorado:

Applicant: Tri-State Generation and Transmission Association, Inc. has submitted 1041 Permit Application for a Major Facility of a Public Utility to construct, operate and maintain a single-circuit, 230-kv overhead transmission line along the proposed route and associated facilities located within Morgan County for the Big Sandy to Badger Creek 230-kv Transmission Project (Project).

Documents pertaining to the above identified matters are on file in the Planning Administrator's Office located at 231 Ensign St., Fort Morgan, Colorado. Documents are also available of the Morgan County Website https://morgancounty.colorado.gov

If you have any questions pertaining to this application or if you would like to review the file, either contact us at (970) 542-3526 or stop by our office prior to the hearing. If you have any comments or concerns, plan to attend this hearing.

Sincerely,

Nicole Hay
Nicole Hay
Planning & Zoning Director

Morgan County Government ~ 231 Ensign St ~ PO Box 596 ~ Fort Morgan, CO 80701
Telephone (970) 542-3526 ~ nhay@co.morgan.co.us

MORGAN COUNTY
PLANNING AND ZONING DEPARTMENT

December 3, 2025

To whom it may concern;

In regards to the Tri-State Generation and Transmission Association, Inc.1041 Permit Application for a Major Facility of a Public Utility scheduled to be heard by the Board of County Commissioners on December 16, 2025.

On December 3, 2025, Eldon Hawes, introduced himself to me, Cheryl Brindisi Planning & Zoning Administrative Assistant, as a concerned landowner near the Tri-State proposed project. He wanted to learn more about this project and states that he was not notified that this was taking place. I checked the list of landowners provided by Tri-State as well as the list populated by the Morgan County mapper and his name appears on both lists to be notified of this application.

I provided him with a copy of the November 3, 2025 Planning and Zoning landowner letter that was sent out to neighboring landowners, the Tri-State project summary, a map of the projects location and also the Planning and Zoning Departments notice that was posted on the Morgan County website on November 6, 2025, published in the Fort Morgan Times Newspaper on Novemeber 6, 2025 and also posted to the boards throughout the Morgan County Administration Building.

He expressed to me that he felt this was a project being pushed through and landowners had no right to be heard. I informed him that he has the opportunity to send in a letter or email to our department for comments and concerns that can be added to the packet as well as forwarded to the applicant. He stated that he has plans to attend the Board of County Commisioners meeting on December 16, 2025 to express his thoughts.

Sincerely,

Cheryl Brindisi
Cheryl Brindisi
Planning & Zoning Administrative Assistant

Tri-State Generation and Transmission Association, Inc.
Big Sandy to Badger Creek Transmission Line Project
Project Summary

Tri-State Generation and Transmission Association, Inc. (Tri-State) is proposing to construct approximately 24 miles of new single-circuit 230-kilovolt (kV) transmission line in Morgan County, Colorado. The new transmission line will extend from Tri-State's existing Big Sandy Substation in Lincoln County to a new 230 kV Badger Creek Switching Station in Morgan County. The Big Sandy to Badger Creek Transmission Line Project is proposed to be located in Lincoln, Washington, and Morgan Counties and will cross areas served by Tri-State Member Systems Mountain View Electric Association and Morgan County Rural Electric Association. The Project is being developed to alleviate existing and anticipated transmission constraints, help improve electric reliability, reduce curtailment of generation, and allow for the connection of new generation resources in eastern Colorado. The location of the proposed switching station and preliminary transmission line route are shown on the attached map for your reference.

It is anticipated that construction of the Project will take 12-18 months following receipt of all necessary permits, completion of engineering activities, procurement of materials, and acquisition of easements and other land rights needed for construction. Currently, construction is scheduled to begin in 2027, with the Project scheduled to be in service in early 2028.

Current uses adjacent to the proposed Project facilities will be able to continue mainly unchanged after construction. Following construction, the transmission line will be unmanned. No employees will be on site other than for periodic inspection and any maintenance or repair work. Typical vehicles on site will include pickup trucks and bucket trucks. The transmission line will operate 24 hours per day, 365 days per year.

Tri-State has submitted an application to Morgan County for a Permit to Conduct a Designated Activity of State Interest or to Engage in Development in a Designated Area of State Interest (1041 Permit). A Certificate of Public Convenience and Necessity was received from the Colorado Public Utilities Commission on September 9, 2022, as Decision No. R22-0533.

Gmail

Cheryl Brindisi <cbrindisi@co.morgan.co.us>

Landowner Concern-Hawes

Ruderman, Rita [redacted]> Thu, Dec 11, 2025 at 12:19 PM
To: Cheryl Brindisi <cbrindisi@co.morgan.co.us>, "Ruderman, Rita" [redacted], "Hutchinson, Charles" [redacted]>, "Copeland, Anya" [redacted]>
Cc: Nicole Hay <nhay@co.morgan.co.us>, Jenafer Santos <jsantos@co.morgan.co.us>

Hi Cheryl,

Thank you for sharing this. We have been in consistent communication with Eldon and Karen Hawes since March 2024, and expected that Eldon may be interested in attending the hearing. He has expressed to our land agent that he is, understandably, concerned about Tri-State's eminent domain authority, to which we have reassured him that it is a last resort and not how we prefer to do business. At this time, our land agent is in the midst of ongoing discussions with the Hawes over option and easement terms, towards the goal of voluntary acquisition. We will plan to speak to his concerns regarding eminent domain and easement acquisition if/when he contributes to public comment.

In the meantime, are there other ways that you would like us to address the encounter? We would also like to know whether the County has a certified return receipt or other means of proof for the hearing notice sent to the Hawes.

RITA RUDERMAN

PROJECT MANAGER II

[redacted]

POWER Engineers

Member of WSP

www.powereng.com

BETTER TOGETHER | POWER ENGINEERS MEMBER OF WSP

From: Cheryl Brindisi <cbrindisi@co.morgan.co.us>
Sent: Friday, December 5, 2025 1:11 PM
To: Ruderman, Rita [redacted]>; Hutchinson, Charles <[redacted] Copeland, Anya <[redacted]>

[redacted]

Cc: Nicole Hay <nhay@co.morgan.co.us>; Jenafer Santos <jsantos@co.morgan.co.us>
Subject: Landowner Concern-Hawes

[Quoted te t hidden]

NOTICE This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies

LAEmHhHzdJzBlTWfa4Hgs7pbKI GMAS

Gmail Jenafer Santos <jsantos@co.morgan.co.us>

Landowner Concern-Hawes

Cheryl Brindisi <cbrindisi@co.morgan.co.us> Thu, Dec 11, 2025 at 2:35 PM
To: "Ruderman, Rita" <[redacted]
Cc: "Hutchinson, Charles" [redacted]>, "Copeland, Anya" [redacted],
Nicole Hay <nhay@co.morgan.co.us>, Jenafer Santos <jsantos@co.morgan.co.us>

Hello and Good Day!
In regards to your question concerning the County's process for hearing notices. We do have a list of landowners that the notices were sent to but the regulations do not require them to be sent certified mail.
Per our 1041 regulations in Section 1-203 Notice of Public Hearing, Mailing List, Publication
(3) At least thirty (30) days; but no more than sixty (60) days before the public hearing, the Board of County Commissioners shall publish the notice one time in a newspaper of general circulation in the County and shall mail the notice by first class mail to each of the persons on the mailing list.

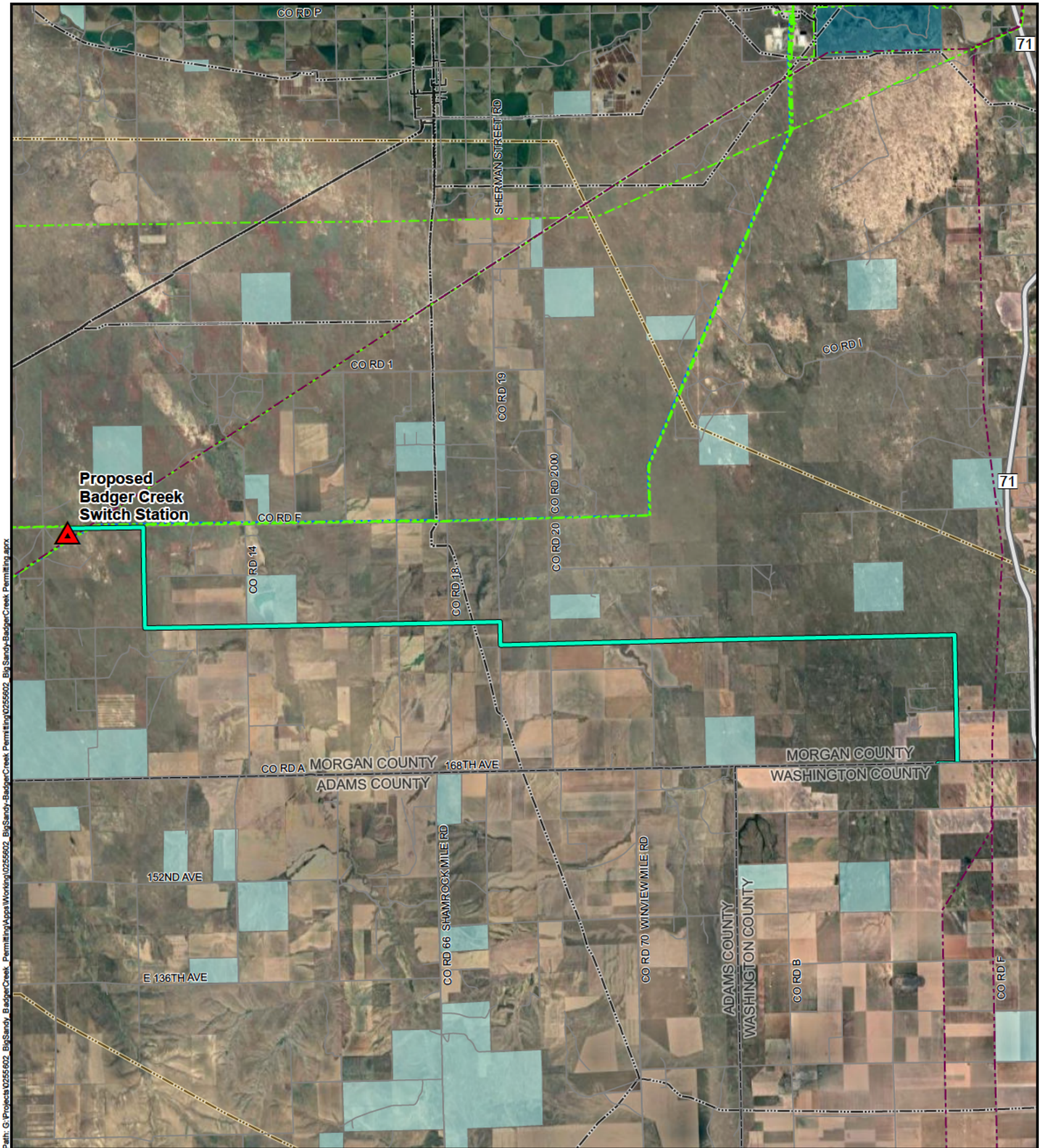
The notices were sent via standard US mailing on November 3rd, 2025 to the list of landowners that we have on file.
The notice was published in the Fort Morgan Times newspaper on November 6, 2025.
The notice was posted to the Morgan County website on November 6, 2025.

Thank you

Cheryl Brindisi, Planning and Zoning Administrative Assistant
Morgan County Planning and Zoning
231 Ensign St.
PO Box 596
Fort Morgan, CO 80701
970-542-3526

CBrindisi@co.morgan.co.us

[Quoted text hidden]



Path: G:\Projects\02556602_BigSandy_BadgerCreek_Permitting\AppsWorking\02556602_BigSandy-BadgerCreek_Permitting\02556602_BigSandy-BadgerCreek_Permitting.aprx

PROJECT OVERVIEW MAP

0 1.25 2.5

Miles

POWER ENGINEERS MEMBER OF WSP

TRI-STATE

BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

1041 APPLICATION
MORGAN COUNTY, COLORADO

NAD 1983 STATEPLANE COLORADO NORTH FIPS 0501 (US FEET)

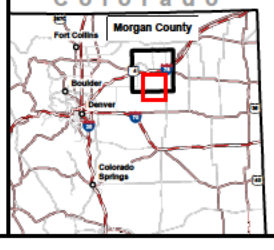
1:158,400	1 inch = 2.5 miles
Map Rev: 1	Date: 9/2/2025

Project Features
- Proposed Badger Creek Switch Station
- Preliminary Preferred Route

Jurisdiction
- State of Colorado
- Local Ownership
- Private

Existing Utility
- 345 kV Transmission
- 230 kV Transmission
- 115 kV Transmission
- Oil Pipeline
- Natural Gas Pipeline

Reference Features
- State Highway
- Local Road
- County Boundary



Property Owners within 500 Feet from Centerline in Morgan County

The following list includes all landowners within 500 feet of the proposed transmission line alignment. The alignment, and therefore this list, are preliminary, as discussions with landowners are ongoing and may affect micro-siting decisions.

LANDOWNER LIST, REPEATS REMOVED:

Landowner Name	Parcel No.(s)	Mailing Address
Randy Owen Fiscus	149135000002	PO Box 803, Brush, CO, 80723
Craig J & Sharon L Quick Revocable Trust	149135000001, 149126000002	26306 County RD J, Woodrow, CO, 80757
Joseph R & Ann M Archuleta	149134000002	PO Box 922, Snyder, CO, 80750
Douglas Queen	149134000001	PO Box 731, Brush, CO, 80723
Curtis Ranch LLP	149127000001, 149123000001, 149122000002, 149121000001	3769 HWY 71, Brush, CO 80723
Doris J Chenoweth Trust	149126000001, 149123000002	11373 Jersey Way, Thornton, CO, 80233
DJD David Properties LLC	149121000002, 149120000001	7300 County RD 15, Fort Morgan, CO, 80701
Shifting Sands Ranch, LLC	149119000001, 148924000001, 148923000001, 148922000001	PO Box 175, Roggen, CO, 80652
Lewton Land Co.	148923000004, 148923000003, 148922000004, 148921000002	47500 E 144th Ave, Bennett, CO, 80102
Glenn Ranch & Cattle Company RLLP	148922000002, 148921000001, 148920000001	6432 County RD 19, Fort Morgan, CO, 80701
Tammy Jess Trust	148919000003, 148713000004	17265 County RD V, Fort Morgan, CO, 80701
Terry Musgrave	148919000001, 148918000002, 148724000002	2614 County RD 18, Fort Morgan, CO, 80701
Madeleine R Drake	148724000001, 148714000002	1351 W 27TH Dr, San Pedro, CA 90731
Irene Nellie & Cary David Strauss	148713000003	6837 W Fellet LN, Lakewood, CO, 80227
Eldon D & Karen K Hawes	148723000001, 148720000001, 148717000002, 148717000001, 148719000001, 148718000001	3757 County RD 14, Fort Morgan, CO, 80701
Good Family Trust	148723000002, 148714000001, 148715000003	22760 County RD R, Fort Morgan, CO, 80701

Ruth & Mary Beardsley	148722000001	41919 156TH ST S E, Gold Bar, WA, 98251
Linnebur Grain & Buffalo LLLP	148722000002, 148715000002, 148721000001	74600 HWY 36, Byers , CO, 80103
State of Colorado	148716000900	1313 Sherman St, RM 620, Denver, CO, 80203
Freund Investments LLC	148718000002, 148512000002, 148707000003	15460 E Batavia Dr, Aurora, CO, 80011
Jerry D and Monica L Wolfswinkel	148524000001,148513000001	8269 County RD F, Wiggins, CO, 80654
Billis Ranch Solar LLC	148512000001, 148501000001, 148502000001, 148511000001	12152 E 168TH AVE BRIGHTON, CO 80602
Howard Kuhlman	148707000002	1679 WILDFLOWER DR BRIGHTON, CO 80601
Gerard R & Kelly R Graybill	148706000001	6441 Weld County RD 67, Keenesburg, CO, 80643

COMPLETE LIST IN ORDER OF PARCELS CROSSED:

Landowner Name	Parcel No.	Mailing Address	S	T	R
Randy Owen Fiscus	149135000002	PO Box 803, Brush, CO, 80723	35	1N	56W
Craig J & Sharon L Quick Revocable Trust	149135000001	26306 County RD J, Woodrow, CO, 80757	35	1N	56W
Joseph R & Ann M Archuleta	149134000002	PO Box 922, Snyder, CO, 80750	34	1N	56W
Douglas Queen	149134000001	PO Box 731, Brush, CO, 80723	34	1N	56W
Curtis Ranch LLP	149127000001	3769 HWY 71, Brush, CO 80723	27	1N	56W
Craig J & Sharon L Quick Revocable Trust	149126000002	26306 County RD J, Woodrow, CO, 80757	26	1N	56W
Doris J Chenoweth Trust	149126000001	11373 Jersey Way, Thornton, CO, 80233	26	1N	56W
Doris J Chenoweth Trust	149123000002	11373 Jersey Way, Thornton, CO, 80233	23	1N	56W
Curtis Ranch LLP	149123000001	3769 HWY 71, Brush, CO 80723	23	1N	56W

Curtis Ranch LLP	149122000002	3769 HWY 71, Brush, CO 80723	22	1N	56W
Curtis Ranch LLP	149121000001	3769 HWY 71, Brush, CO 80723	21	1N	56W
DJD David Properties LLC	149121000002	7300 County RD 15, Fort Morgan, CO, 80701	21	1N	56W
DJD David Properties LLC	149120000001	7300 County RD 15, Fort Morgan, CO, 80701	20	1N	56W
Shifting Sands Ranch, LLC	149119000001	PO Box 175, Roggen, CO, 80652	19	1N	56W
Shifting Sands Ranch, LLC	148924000001	PO Box 175, Roggen, CO, 80652	24	1N	57W
Shifting Sands Ranch, LLC	148923000001	PO Box 175, Roggen, CO, 80652	23	1N	57W
Lewton Land Co.	148923000004	47500 E 144th Ave, Bennett, CO, 80102	23	1N	57W
Lewton Land Co.	148923000003	47500 E 144th Ave, Bennett, CO, 80102	23	1N	57W
Lewton Land Co.	148922000004	47500 E 144th Ave, Bennett, CO, 80102	22	1N	57W
Shifting Sands Ranch, LLC	148922000001	PO Box 175, Roggen, CO, 80652	22	1N	57W
Glenn Ranch & Cattle Company RLLP	148922000002	6432 County RD 19, Fort Morgan, CO, 80701	22	1N	57W
Glenn Ranch & Cattle Company RLLP	148921000001	6432 County RD 19, Fort Morgan, CO, 80701	21	1N	57W
Lewton Land Co.	48921000002	47500 E 144th Ave, Bennett, CO, 80102	21	1N	57W
Glenn Ranch & Cattle Company RLLP	148920000001	6432 County RD 19, Fort Morgan, CO, 80701	20	1N	57W
Tammy Jess Trust	148919000003	17265 County RD V, Fort Morgan, CO, 80701	19	1N	57W
Terry Musgrave	148919000001	2614 County RD 18, Fort Morgan, CO, 80701	19	1N	57W
Terry Musgrave	148918000002	2614 County RD 18, Fort Morgan, CO, 80701	18	1N	57W
Terry Musgrave	148724000002	2614 County RD 18, Fort Morgan, CO, 80701	24	1N	58W

Madeleine R Drake	148724000001	1351 W 27TH Dr, San Pedro, CA 90731	24	1N	58W
Tammy Jess Trust	148713000004	17265 County RD V, Fort Morgan, CO, 80701	13	1N	57W
Irene Nellie & Cary David Strauss	148713000003	6837 W Fellet LN, Lakewood, CO, 80227	13	1N	57W
Eldon D & Karen K Hawes	148723000001	3757 County RD 14, Fort Morgan, CO, 80701	23	1N	58W
Madeleine R Drake	148714000002	1351 W 27TH Dr, San Pedro, CA 90731	14	1N	58W
Good Family Trust	148723000002	22760 County RD R, Fort Morgan, CO, 80701	23	1N	58W
Good Family Trust	148714000001	22760 County RD R, Fort Morgan, CO, 80701	14	1N	58W
Ruth & Mary Beardsley	148722000001	41919 156TH ST S E, Gold Bar, WA, 98251	22	1N	58W
Linnebur Grain & Buffalo LLLP	148722000002	74600 HWY 36, Byers , CO, 80103	22	1N	58W
Linnebur Grain & Buffalo LLLP	148715000002	74600 HWY 36, Byers , CO, 80103	15	1N	58W
Robert H & Mary E Good	148715000003	22760 County RD R, Fort Morgan, CO 80701	15	1N	58W
Linnebur Grain & Buffalo LLLP	148721000001	74600 HWY 36, Byers , CO, 80103	21	1N	58W
State of Colorado	148716000900	1313 Sherman St, RM 620, Denver, CO, 80203	16	1N	58W
Eldon D & Karen K Hawes	148720000001	3757 County RD 14, Fort Morgan, CO, 80701	20	1N	58W
Eldon D & Karen K Hawes	148717000002	3757 County RD 14, Fort Morgan, CO, 80701	17	1N	58W
Eldon D & Karen K Hawes	148717000001	3757 County RD 14, Fort Morgan, CO, 80701	17	1N	58W
Eldon D & Karen K Hawes	148719000001	3757 County RD 14, Fort Morgan, CO, 80701	19	1N	58W

Eldon D & Karen K Hawes	148718000001	3757 County RD 14, Fort Morgan, CO, 80701	18	1N	58W
Freund Investments LLC	148718000002	15460 E Batavia Dr, Aurora, CO, 80011	18	1N	58W
Jerry D and Monica L Wolfswinkel	148524000001	8269 County RD F, Wiggins, CO, 80654	24	1N	59W
Jerry D and Monica L Wolfswinkel	148513000001	8269 County RD F, Wiggins, CO, 80654	13	1N	59W
Freund Investments LLC	148512000002	15460 E Batavia Dr, Aurora, CO, 80011	12	1N	59W
Freund Investments LLC	148707000003	15460 E Batavia Dr, Aurora, CO, 80011	7	1N	59W
Billis Ranch Solar LLC	148512000001	12152 E 168TH AVE, BRIGHTON, CO 80602	12	1N	59W
Howard Kuhlman	148707000002	1679 WILDFLOWER DR BRIGHTON, CO 80601	7	1N	58W
Gerard R & Kelly R Graybill	148706000001	6441 Weld County RD 67, Keenesburg, CO 80643	6	1N	58W
Billis Ranch Solar LLC	148501000001	12152 E 168TH AVE BRIGHTON, CO 80602	1	1N	59W
Billis Ranch Solar LLC	148502000001	12152 E 168TH AVE BRIGHTON, CO 80602	2	1N	59W
Billis Ranch Solar LLC	148511000001	12152 E 168TH AVE BRIGHTON, CO 80602	11	1N	59W

MORGAN COUNTY
PLANNING AND ZONING DEPARTMENT

TO REFERRAL AGENCIES:

Blue Lightning
Brush Fire Department
CDOT
Century Link
Cheyenne Plains Gas Pipeline Company, LLC
Colorado State Land Board, DNR
Farm Service Agency-Morgan County
Fort Morgan Fire Department
Kinder Morgan, Inc.
Morgan County Assessor
Morgan County Communications Center
Morgan County Emergency Management
Morgan Conservation District
Morgan County Rural Electric Association
Morgan County Road and Bridge
Morgan County Sheriff Department
Morgan County Weed & Pest Advisory Board
Wiggins Fire Department
Xcel Energy

FROM: Cheryl Brindisi, Morgan County Planning & Zoning Administrative Assistant
231 Ensign St, PO Box 596, Fort Morgan, CO 80701
970-542-3526 / 970-542-3509 fax / cbrindisi@co.morgan.co.us
DATE: November 3, 2025
RE: Land Use Application–1041

The following 1041 Permit Application for a Major Facility of a Public Utility is submitted to you for review and comments. The application is scheduled to be heard by the Board of County Commissioners on **Tuesday, December 16, 2025 at 9:00 A.M.** in the Assembly Room of the Morgan County Administrative Building, 231 Ensign Street, Fort Morgan, CO 80701 (Basement level; use elevator entrance in SW corner). You are encouraged to provide comments to this application or attend the public hearing. Failure to comment will be viewed as a favorable review.

Applicant: Tri-State Generation and Transmission Association, Inc.
Request: To construct, operate and maintain a single-circuit, 230-kv overhead transmission line along the proposed route and associated facilities located within Morgan County for the Big Sandy to Badger Creek 230-kv Transmission Project (Project).

Sincerely,
Cheryl Brindisi, Cheryl Brindisi,
Morgan County Planning & Zoning Administrative Assistant

REFERRAL AGENCIES	RESPONSES RECEIVED
Blue Lightning	
Brush Fire Department	
CDOT	**Response received via email 11/07/2025** Thank you for sending this in. I believe we've already had conversations with the applicant to this point, but please pass along that any utility crossings over or under state highways require utility permits from our office here. They can get in touch with me if they have any questions or to discuss the permitting process. Thank you. Tim Tim Bilobran Region 4 Permits Manager
Century Link	
Cheyenne Plains Gas Pipeline Company, LLC	
Colorado State Land Board, DNR	
Farm Service Agency – Morgan County	
Fort Morgan Fire Department	
Kinder Morgan, Inc.	
Morgan County Assessor	
Morgan County Communications Center	
Morgan County Emergency Management	
Morgan Conservation District	
Morgan County Rural Electric Association	
Morgan County Road and Bridge	
Morgan County Sheriff Department	
Morgan County Weed & Pest Advisory Board	
Wiggins Fire Department	
Xcel Energy	See attached letter 11/25/2025

Xcel Energy℠
PUBLIC SERVICE COMPANY

Right of Way & Permits

1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: [redacted]

November 25, 2025

Morgan County Planning and Building Department
231 Ensign / PO Box 596
Fort Morgan, CO 80701

Attn: Cheryl Brindisi, Nicole Hay, Jenafer Santos

Re: TRISTATE - BIG SANDY TO BADGER CREEK TRANSMISSION PROJECT

Public Service Company of Colorado's (PSCo) Right of Way and Permits Referral Desk has determined there are **possible conflicts** with the above captioned project. Public Service Company has an existing *electric* **transmission** line and an existing *high-pressure natural gas* **transmission** pipeline with associated land rights as shown within this property. Any activity including annexation, zoning, grading, proposed landscaping, erosion control or similar activities involving our existing right-of-way will require Public Service Company approval. Encroachments across Public Service Company's easements must be reviewed for safety standards, operational and maintenance clearances, liability issues, and acknowledged with a Public Service Company License Agreement to be executed with the property owner. PSCo is requesting that, prior to any final approval of the development plan, it is the responsibility of the property owner/developer/contractor to contact the following for development plan review and execution of License Agreements:

- **for Electric Transmission**: email coloradorightofway@xcelenergy.com or website www.xcelenergy.com/rightofway
- **for High Pressure Natural Gas Transmission**: cloud.marketing.xcelenergy.com/encroachment

Please be aware PSCo owns and operates existing natural gas distribution facilities along the project route.

Violeta Ciocanu (Chokanu)
Right of Way and Permits
Public Service Company of Colorado dba Xcel Energy
Office: [redacted] – Email: [redacted]

NOTICE OF PUBLIC HEARING
MORGAN COUNTY BOARD OF COUNTY COMMISSIONERS
DECEMBER 16, 2025 AT 9:00 A.M
TO REVIEW APPLICATION
FOR A MAJOR FACILITY OF A PUBLIC UTILITY

Notice is hereby given that on the date and time above (or as soon as possible following the scheduled time) and at the location above, or at such time and place as this hearing may be adjourned, the Morgan County Board of County Commissioners will conduct a public hearing on the following proposed **Land Use Application: 1041**

1.) **Description of Application:**
Concerning Tri-State Generation and Transmission Association's 1041 Permit Application for a Major Facility of a Public Utility to construct and operate a transmission line and proposed new switching station in a portion of Big Sandy-Badger Creek project located in Morgan County.

THE COUNTY WILL CONTINUE TO OFFER THE OPTION TO ATTEND MEETINGS REMOTELY. IF YOU HAVE ANY QUESTIONS REGARDING ATTENDING THE MEETING, PLEASE CONTACT THE PLANNING OFFICES AT 970-542-3526.

To participate remotely you may connect via Zoom at:
https://us02web.zoom.us/j/85484638154
Join via audio:
+1 719 359 4580 US
Webinar ID: 854 8463 8154

Documents pertaining to the above identified matters are on file in the Planning Administrator's Office, 231 Ensign St., Fort Morgan, Colorado. Documents are also available on the Morgan County Website https://morgancounty.colorado.gov

At time of the meeting an opportunity will be given for presentation of evidence in support of or in opposition to the application.

Nicole Hay
Nicole Hay
Morgan County Planning Administrator

Published: November 6, 2025
Posted to website: November 6, 2025

For special assistance for the mentioned hearing, please notify us at least 48 hours before the scheduled agenda item. Please call (970) 542-3526 to request any ADA accommodations.

AFFIDAVIT OF PUBLICATION

MORGAN COUNTY TIMES

State of Colorado
County of Morgan

I, the undersigned agent, do solemnly swear that **THE MORGAN COUNTY TIMES** is a daily newspaper printed, in whole or in part, and published in the City of Fort Morgan, County of Morgan, State of Colorado, and which has general circulation therein and in parts of Logan and Morgan counties; that said newspaper has been continuously and uninterruptedly published for a period of more than six months next prior to the first publication of the annexed legal notice of advertisement, that said newspaper has been admitted to the United States mails as second-class matter under the provisions of the Act of March 3, 1879, or any, amendments thereof, and that said newspaper is a daily newspaper duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado; that a copy of each number of said newspaper, in which said notice of advertisement was published, was transmitted by mail or carrier to each of the subscribers of said newspaper, according to the accustomed mode of business in this office.

The annexed legal notice or advertisement was published online **October 31, 2025** and in the regular and entire edition of said daily newspaper once; and that one publication of said notice was in the issue of said newspaper dated **November 6, 2025.**

Melissa Najera
Agent

Subscribed and sworn to before me this 6th day of **November, 2025** in the County of Morgan, State of Colorado.

Shayla Najera
Notary Public

Account #1052763
Ad #2141582
Fee $23.94

SHAYLA NAJERA
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20174031965
MY COMMISSION EXPIRES JULY 31, 2029

NOTICE OF PUBLIC HEARING
MORGAN COUNTY BOARD OF COUNTY COMMISSIONERS
DECEMBER 16, 2025 AT 9:00 A.M
TO REVIEW APPLICATION
FOR A MAJOR FACILITY OF A PUBLIC UTILITY

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/s/Nicole Hay
Nicole Hay
Morgan County Planning Administrator

Published: Morgan County Times November 6, 2025-2141582