



BURLEIGH COUNTY WATER RESOURCE DISTRICT AGENDA

Wednesday, June 12, 2024 at 8:00 am

Tom Baker Room, 221 N. 5th Street Bismarck

8:00 a.m. – Call to Order

1. Roll Call (Reep, Landenberger, Jones, Smith, Binegar):
2. **Approval of 05/08/24 and 05/14/2024 Minutes:**3-6
3. **Amendments and Approval of Agenda:**
4. Comments from Members of the Public: (For Items Not on the agenda):
5. McDowell Dam (Binegar/Landenberger):
 - a. Budget
 - b. Supplemental Water Supply
 - i. Easement Negotiations (Offer Letters)
 - ii. Updated Water Supply Simulation (Pending)
 - c. Emergency Spillway Bank Stabilization (Survey/Design/Permitting)
6. Financial Reports (Reep):
 - a. **Balance Sheet 05/31/2024**7-8
 - b. **P&L 05/31/2024**9-10
 - c. Pledged Securities 11
 - d. **ESRI Renewal Quote** 12-14
 - e. Budget
 - f. **Audit Results**
7. Drainage Permits/Complaints/Issues: *Open*:
 - a. Grass Lake, Watson Johnson (Records Review and DWR Request)
 - b. Gibbs Township – Rocks in Channel (waiting on written complaint)
8. Drainage Permits/Complaints/Issues: *Closed*:
 - a. 7232 Signal St – Schaff (Notice and Order) – **Compliance and Dismissal Letter**
 - b. 7101 Moonlite Rd, Jeffrey Goetz (ROW Drainage) – Manager Letter
9. Projects:
 - a. Sibley Island (Gunsch\Reep):
 - i. Next Steps
 1. April 25, 2024 Public Hearing (5:30pm, Bismarck Public Library) - Update
 2. May 20, 2024 Public Hearing – continuation (8:30am, Tom Baker Room)
 3. Vote deadline extended to June 20, 2024
 4. State Historical Society of ND Survey Recommendation 15
 - ii. Public Comments
 - b. Hoge Island Stabilization (Binegar):
 - i. Clean up and seeding – Completed
 - ii. **Change order #2 and Final Pay Request** 16-20
 - iii. Expense Review and Status (Section 32, and Special Assessment District) (ongoing)
 - a. SWC Cost share request (Partial) – June 2024
 - iv. Bond Sales – August 2024
 - v. Access Easement Revisions (Pending)

10. Other Old Business:

- a. Burleigh County WRD Assessment District Projects
 - i. Highway Dept O&M Agreements (draft updates to BCHD-Pending)
 - ii. Annual project inspections – Spring 2024
 - iii. Missouri River Joint Board Update
- b. Policy Manual (No Update)

11. New Business

- a. **Summit Point – NDDOT ROW Discharge Permit 21-112**
- b. Missouri River 2024 Ice Jam and BFE Advisory (USACE Discussion)
- c. Burleigh Cty – FEMA CRS Application – **Cost Share/Participation Request(Burleigh Cty)... 113-125**
- d. ND WRD Summer Meeting (July 10-11)126-128
- e. NDSWC Commissioner-Hosted Meeting (June 24)129-130
 - i. McDowell, Sibley and Missouri River Stabilization
- f. ND Water Education Foundation Summer Tour Information131-132
- g. Missouri River Bank Stabilization SWC Planning Form133-135
- h. US Department of the Interior Heart Butte Dam Environmental Assessment136-138
- i. July Meeting Date changed to TUESDAY, July 9th.
- j. Burnt Creek Spraying

12. Correspondence or Document Information:

- a. Temporary Water Permit – Knife River Company – North Central
- b. Plats & SWMP's – Not included due to size...Available on request.
 - i. Sonnet Heights Subdivision Ninth Replat
 - ii. First Responders Third Addition
 - iii. Elk Ridge Third Addition

13. Approval of Bills (\$55,679.26) 139

14. Detailed Bills140-204

15. Next Meeting: Tuesday, July 9, 2024, 8:00 AM, Tom Baker Room

16. Adjourn

Note: Bold Items Require Board Action

BCWRD Meeting Minutes
 May 8, 2024
 Draft - Not Approved Yet

Agenda Items	Discussion	Board Action	Responsible Party(s)	Due Date
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Present: James Landenberger; Dennis Reep; Roger Smith; Randy Binegar (Via Phone); Michael Gunsch, Houston Engineering; Dave Bliss, Bliss Law Firm, and Wendy Egli, Fronteer Professional Services
Others Present: Dave Robinson and Dave Mayer (Bismarck Parks & Rec), Casey Einrem, ND Hwy Dept, Mitch Flanagan, Burleigh County Planning & Zoning

Chairman Landenberger called the meeting to order at 8:00 am. Roll call was taken and a quorum was declared.

	Discussion	Action Taken	Responsible Party(s)	Due Date
Approval of 04/10/2024 and 04/25/2024 Minutes		Mgr. Smith motions to approve 04/10/2024 and 04/25/2024 minutes; Mgr. Reep seconds. Motion carried by unanimous voice vote		
Amendments and Approval of Agenda	Moved drainage permits/complaints to #5, add item D under financial reports for budgeting. Under New business, add item C – waste water treatment plant preconstruction meeting.	Mgr. Reep motions to approve agenda as amended, Mgr. Smith seconds. Motion carried by unanimous voice vote.		
Comments from Members of the Pubic	None noted.			
McDowell Dam				
Budget	<p>Dave Mayer – They are working on the 2025 budget. They already have plans to add 3 inches of sand this year and 3 inches next year. This will remove this for the time being from the list.</p> <p>They are requesting that the board approve the addition of a new playground between shelters 3 & 4 for the 2025 budget with a cost of approximately \$125,000-130,000. This should fall well within grant requirements that would cover 25%.</p> <p>If the playground is not feasible at this time, they are requesting a new shelter near the softball fields for an approximate cost of \$70,000-80,000.</p> <p>Also requesting funds within this year to hire an architect to look at the bathhouse and bathroom by shelters 3&4 and see if it is feasible to remodel or if a new building is needed in order to comply with the access audit suggested upgrades.</p>	<p>Consensus was to approve the funding for the architect for the bathhouse and bathroom.</p> <p>Consensus was also to approve the addition of the playground to the budget for 2025.</p>		

Agenda Items	Discussion	Board Action	Responsible Party(s)	Due Date
Facility Update	Dave Mayer – Docks will be going in Friday. Some people have been out swimming already.			
Supplemental Water Supply Easement Acquisition Status	Negotiations are moving ahead. One landowner has requested a copy of the agreement language.	Special Executive Meeting via Microsoft Teams is scheduled for Tuesday, May 14th at 8:30 am.		
Emergency Spillway Bank Stabilization	Houston is working on an estimate of costs for the repairs.			
Financial Reports				
Balance Sheet	None noted.	Mgr. Reep motions to approve balance sheet; Mgr. Binigar seconds. Motion carried by unanimous roll call vote.		
Profit & Loss	None Noted	Mgr. Reep motions to approve profit & loss; Mgr. Smith seconds. Motion carried by unanimous roll call vote.		
Investment Strategy	2.3 mill in CDs have been purchased with maturity dates varying from 1 on July 12, 2024, 2 on October 12, 2024, and 2 on April 12, 2025.			
Drainage Permits/Complaints/ Issues: Open	Grass Lake – Houston is still looking for the records for the old complaint. Suggestion is to have a survey done as a baseline for future changes.	Consensus is to go forward with Houston doing a survey as a baseline.		
	7101 Moonlite Rd – no action needed – can be closed			
	Rick Boehm – 7232 Signal Street Mr. Boehm was in attendance and discussed his questions and thoughts on this matter.			
Drainage Permits/Complaints/ Issues: Closed	7232 Signal Street – Schaff (notice and Order) – see above, letter was sent giving additional time for tree removal to June 1, 2024.			
Projects				
Sibley Island				
Cost Share Agreement				
Public Comments				
Hoge Island Stabilization				
Clean up and Seeding	No Updates			

Agenda Items	Discussion	Board Action	Responsible Party(s)	Due Date
Other Old Business				
Highway Dept O&M Agreements	None			
Annual Project Inspections	No updates			
Missouri River Joint Board Update	No Updates			
Policy Manual	No Update			
New Business	None			
Missouri River Ice Jam and BFE Advisory	Houston is working on a presentation to be shown at a later date			
Burleigh County – FEMA CRS Application	Houston and Burleigh County are working on this. There is quite a bit of work involved at a cost of roughly 15-17 thousand. This could potentially save around 7,000 a year total for all properties.			
Bismarck Waste Water Treatment Plant	There is a preconstruction meeting planned for May 22 nd that the District has been invited to. No need to attend but will need someone on site during construction when they are doing work near the Fox Island Levee.			
Temporary Water Permits	Included for information only			
Plats & SWMPS	Available upon request			
Approval of Bills	Bills were presented totaling \$124,888.77 This includes a bond payment that was ACH'd on April 29 th for the Fox Island bond.	Mgr. Reep motions to approve payment of bills; Mgr. Smith seconds. Motion carried by unanimous roll call vote.		
Next Meeting	The next regularly scheduled meeting date is June 12, 2024 at 8:00 AM in the Tom Baker Room. Special Executive Session to be held on May 14 th at 8:30 am via Microsoft Teams			

With no further business the meeting adjourned at 9:32 a.m.

Wendy Egli, BCWRD Admin. Secretary

BCWRD Meeting Minutes
 May 14, 2024
 Draft - Not Approved Yet

Agenda Items	Discussion	Board Action	Responsible Party(s)	Due Date
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Present: James Landenberger; Dennis Reep; Roger Smith; Randy Binegar; Kathleen Jones; Michael Gunsch, Travis Johnson, Houston Engineering; Dave Bliss, Bliss Law Firm; and Wendy Egli, Fronteer Professional Services
Others Present:
 Chairman Landenberger called the meeting to order at 8:31 a.m. Roll call was taken and a quorum was declared.

	Discussion	Action Taken	Responsible Party(s)	Due Date
Amendments and Approval of Agenda		Mgr. Binegar motion to approve the only item on the agenda (McDowell Dam Easement Negotiations) and Mgr. Jones 2nds. Motion approved by voice vote.		
Adjourn for Executive Session		Mgr. Jones motions to Adjourn for Executive Session to consult with District legal counsel regarding easement negotiations for McDowell Dam project pursuant to N.D.C.C. 44-04-19.2. Mgr. Reep seconds. Motion carried by unanimous roll call vote.		
Reconvene Regular Meeting	Meeting Reconvened at 9:05 am			
Executive Session Action	One action was made during the executive session	Motion was passed to move forward with offer letters for easement for McDowell Dam		
Next Meeting	The next regularly scheduled meeting date is June 12, 2024 at 8:00 AM in the Tom Baker Room.			

With no further business the meeting adjourned at 9:08 a.m.

Wendy Egli, BCWRD Admin. Secretary

Burleigh County Water Resource District (BCWRD)

Balance Sheet

06/07/24

As of May 31, 2024

Accrual Basis

	May 31, 24
ASSETS	
Current Assets	
Checking/Savings	
Bravera Bank Center Checking	
General Funds	697,411.48
O & M Funds	
Brookfield O&M	476.96
Burnt Creek O&M	87,470.54
Country Creek 3rd O&M	3,253.37
Fox Island O&M	24,267.41
Total O & M Funds	115,468.28
Special Assessment Districts	
Apple Valley Special Assessment	15,656.94
Fox Island Special Assessment	119,863.42
MRCC Special Assessment	7,075.07
Total Special Assessment Districts	142,595.43
Bravera Bank Center Checking - Other	13,261.23
Total Bravera Bank Center Checking	968,736.42
Designated Reserve Funds	
Aero Club Rent	13.00
Apple Valley	19,000.00
Apple Valley Spec. Assessment	12,626.81
Brookfield Estates	2,377.34
Burnt Creek	115,000.00
Emergency Fund	265,037.13
Hay Creek Watershed	100,000.00
McDowell Dam (Buffer Zone)	80,000.00
McDowell Dam Capital Improvemen	60,000.00
McDowell Dam Fresh Water Intake	410,000.00
McDowell Rent	10,609.00
Missouri River Bank Stabilizati	124,906.33
Sibley Island	500,000.00
Designated Reserve Funds - Other	-999,239.99
Total Designated Reserve Funds	700,329.62
Total Checking/Savings	1,669,066.04
Other Current Assets	
10999 · Bravera CDs - Short Term	2,300,000.00
11000 · Intergovernmental Receivable	9,776.85
11010 · Taxes Receivable	249.88
Total Other Current Assets	2,310,026.73
Total Current Assets	3,979,092.77
Fixed Assets	
15005 · Land	112,481.50
15010 · Infrastructure	6,679,992.53
15015 · Land Improvements	1,822,773.62
15020 · Buildings	202,450.43
15025 · Office Furniture & Equipment	197,082.58
15051 · Acc Depr - Infrastructure	-724,824.06
15052 · Acc Depr - Land Improvements	-1,163,803.33
15053 · Acc Depr - Building	-155,251.38
15054 · Acc Depr - Office Furn & Equip	-140,880.42
Total Fixed Assets	6,830,021.47
TOTAL ASSETS	10,809,114.24
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	

Burleigh County Water Resource District (BCWRD)

Balance Sheet

As of May 31, 2024

	May 31, 24
Accounts Payable	
20000 · Accounts Payable	188,949.29
Total Accounts Payable	188,949.29
Other Current Liabilities	
21010 · Retainage Payable	11,050.22
24000 · Payroll Liabilities	-0.01
24001 · Accrued Payroll Taxes	991.64
Total Other Current Liabilities	12,041.85
Total Current Liabilities	200,991.14
Long Term Liabilities	
23200 · Rehab Apple Valley Waste Water	130,000.00
237 · Burnt Creek Floodway	230,000.00
23800 · Missouri River Correctional Cen	235,000.00
23900 · Fox Island Improvement	1,145,000.00
25000 · Bond Discount	-26,477.50
Total Long Term Liabilities	1,713,522.50
Total Liabilities	1,914,513.64
Equity	
32000 · Retained Earnings	8,191,235.20
Net Income	703,365.40
Total Equity	8,894,600.60
TOTAL LIABILITIES & EQUITY	10,809,114.24

Burleigh County Water Resource District (BCWRD)
Profit & Loss by Class
January through May 2024

	TOTAL	- General	Apple Valley	Brookfield Est.	Burnt Creek Floodway	Country Ridge/Creek	Fox Island	Hoge Island	McDowell Dam	Missouri River Gen.	MRCC	Sibley Island	TOTAL
Income													
31110 · Real Estate Tax	896,756.34	896,756.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	896,756.34
31810 · In Lieu of Tax	509.42	509.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	509.42
36110 · Interest	111.24	111.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.24
36210 · McDowell Dam Recreation Income	990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	990.00	0.00	0.00	0.00	990.00
36215 · McDowell Dam Land Lease	461.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	461.00	0.00	0.00	0.00	461.00
43610 · State Aid Distribution	24,020.62	24,020.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24,020.62
43810 · Reimbursements	210,529.08	0.00	16,161.07	3,068.13	38,908.26	3,031.80	104,085.14	0.00	0.00	0.00	26,453.25	18,821.43	210,529.08
Total Income	1,133,377.70	921,397.62	16,161.07	3,068.13	38,908.26	3,031.80	104,085.14	0.00	1,451.00	0.00	26,453.25	18,821.43	1,133,377.70
Gross Profit	1,133,377.70	921,397.62	16,161.07	3,068.13	38,908.26	3,031.80	104,085.14	0.00	1,451.00	0.00	26,453.25	18,821.43	1,133,377.70
Expense													
111 · Payroll Expenses													
111A · Wages/Stipends	15,896.83	15,896.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,896.83
111B · Payroll Taxes	1,136.17	1,136.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,136.17
111C · Workforce Safety & Insurance	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	250.00
111D · Payroll Processing Fees	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Total 111 · Payroll Expenses	17,383.00	17,383.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,383.00
113 · Accounting & Contract Services	11,025.00	11,025.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11,025.00
312 · Legal Fees	7,733.20	7,733.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7,733.20
315 · Engineering Administration	9,809.25	9,809.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9,809.25
376 · Dues & Publications	2,200.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,200.00
411 · Office Expense	1,594.54	1,594.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,594.54
50913 · Interest Expense	16,427.50	0.00	1,625.00	0.00	3,450.00	0.00	8,102.50	0.00	0.00	0.00	3,250.00	0.00	16,427.50
904 · McDowell Dam	82,400.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82,400.44	0.00	0.00	0.00	82,400.44
905 · McDowell Dam-Capital Improvemen	48,690.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48,690.30	0.00	0.00	0.00	48,690.30
910 · Projects													
Administration	2,265.00	0.00	325.00	0.00	605.00	0.00	730.00	0.00	0.00	0.00	605.00	0.00	2,265.00
Legal Fees	8,659.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,530.00	0.00	0.00	7,129.80	8,659.80
Total 910 · Projects	10,924.80	0.00	325.00	0.00	605.00	0.00	730.00	0.00	1,530.00	0.00	605.00	7,129.80	10,924.80
933 · Missouri River General Services	17,188.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,188.52	0.00	0.00	17,188.52
934 · Missouri River Bank Stabilizati	5,137.25	0.00	0.00	0.00	0.00	0.00	0.00	5,137.25	0.00	0.00	0.00	0.00	5,137.25
937 · Design/Special Assessment	188,840.50	0.00	0.00	0.00	0.00	0.00	0.00	157,596.50	0.00	0.00	0.00	31,244.00	188,840.50
940 · Operations & Maintenances	1,190.00	0.00	0.00	0.00	0.00	0.00	1,190.00	0.00	0.00	0.00	0.00	0.00	1,190.00
960 · Drainage Complaints	9,468.00	9,468.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9,468.00
Total Expense	430,012.30	59,212.99	1,950.00	0.00	4,055.00	0.00	10,022.50	162,733.75	132,620.74	17,188.52	3,855.00	38,373.80	430,012.30
Net Income	703,365.40	862,184.63	14,211.07	3,068.13	34,853.26	3,031.80	94,062.64	-162,733.75	-131,169.74	-17,188.52	22,598.25	-19,552.37	703,365.40

Burleigh County Water Resource District (BCWRD)

Profit & Loss Budget vs. Actual

January through May 2024

	Jan - May 24	Budget	\$ Over Budget	% of Budget
Income				
31110 · Real Estate Tax	896,756.34	1,014,000.00	-117,243.66	88.4%
31810 · In Lieu of Tax	509.42	500.00	9.42	101.9%
33620 · Homestead Credit	0.00	5,000.00	-5,000.00	0.0%
36110 · Interest	111.24	300.00	-188.76	37.1%
36210 · McDowell Dam Recreation Income	990.00	30,000.00	-29,010.00	3.3%
36215 · McDowell Dam Land Lease	461.00	3,000.00	-2,539.00	15.4%
43610 · State Aid Distribution	24,020.62	40,000.00	-15,979.38	60.1%
43810 · Reimbursements	210,529.08			
46910 · Misc Revenue	0.00	500.00	-500.00	0.0%
Total Income	1,133,377.70	1,093,300.00	40,077.70	103.7%
Gross Profit	1,133,377.70	1,093,300.00	40,077.70	103.7%
Expense				
111 · Payroll Expenses				
111A · Wages/Stipends	15,896.83			
111B · Payroll Taxes	1,136.17	3,500.00	-2,363.83	32.5%
111C · Workforce Safety & Insurance	250.00			
111D · Payroll Processing Fees	100.00			
111 · Payroll Expenses - Other	0.00	35,000.00	-35,000.00	0.0%
Total 111 · Payroll Expenses	17,383.00	38,500.00	-21,117.00	45.2%
113 · Accounting & Contract Services	11,025.00	32,000.00	-20,975.00	34.5%
114 · Audit	0.00	18,000.00	-18,000.00	0.0%
312 · Legal Fees	7,733.20	24,000.00	-16,266.80	32.2%
315 · Engineering Administration	9,809.25	24,000.00	-14,190.75	40.9%
328 · Liability Insurance	0.00	5,000.00	-5,000.00	0.0%
335 · Building Rent	0.00	0.00	0.00	0.0%
341 · Travel	0.00	2,000.00	-2,000.00	0.0%
376 · Dues & Publications	2,200.00	5,000.00	-2,800.00	44.0%
411 · Office Expense	1,594.54	3,000.00	-1,405.46	53.2%
50913 · Interest Expense	16,427.50			
904 · McDowell Dam	82,400.44	327,500.00	-245,099.56	25.2%
905 · McDowell Dam-Capital Improvemen				
905-A · Fresh Water Intake	0.00	100,000.00	-100,000.00	0.0%
905 · McDowell Dam-Capital Improvemen - Other	48,690.30	150,000.00	-101,309.70	32.5%
Total 905 · McDowell Dam-Capital Improvemen	48,690.30	250,000.00	-201,309.70	19.5%
910 · Projects				
Administration	2,265.00			
Legal Fees	8,659.80			
910 · Projects - Other	0.00	98,300.00	-98,300.00	0.0%
Total 910 · Projects	10,924.80	98,300.00	-87,375.20	11.1%
911 · Misc	0.00	2,500.00	-2,500.00	0.0%
920 · Continuing Education	0.00	2,500.00	-2,500.00	0.0%
933 · Missouri River General Services	17,188.52	15,000.00	2,188.52	114.6%
934 · Missouri River Bank Stabilizati	5,137.25			
937 · Design/Special Assessment	188,840.50	200,000.00	-11,159.50	94.4%
940 · Operations & Maintenances	1,190.00	20,000.00	-18,810.00	6.0%
941 · Stream Gages	0.00	6,000.00	-6,000.00	0.0%
960 · Drainage Complaints	9,468.00	20,000.00	-10,532.00	47.3%
Total Expense	430,012.30	1,093,300.00	-663,287.70	39.3%
Net Income	703,365.40	0.00	703,365.40	100.0%



BRAVERA

April 30, 2024

Burleigh County Water Resource District
Dennis Reep
PO Box 1255
Bismarck, ND 58502

Dennis:

This letter is to certify that at a meeting of the Bravera Bank Board of Directors on April 24, 2024 the pledge of securities to Burleigh County Water Resource District was approved.

The approval of the pledged securities will be reflected in the April 24, 2024 minutes of the Board of Directors. The following information was reviewed as of March 31, 2024.

Deposits	\$4,160,712
Required Pledges	\$4,301,783
Par Value Pledged	\$5,085,000
Market Value as of March	\$4,730,376

The "Required Pledges" above has been adjusted to reflect an additional \$250,000 of FDIC coverage for interest bearing demand accounts. If you have any questions, please contact me at 701-483-3241.

Sincerely,

Rhonda Maher
Finance Support
Bravera Bank
220 1st Avenue West
Dickinson, ND 58601
701-483-3241
rmaher@bravera.bank



Esri Inc
380 New York Street
Redlands CA 92373

Subject: Renewal Quotation

Date: 05/01/2024
To: Wendy Egli
Organization: BCWRD
Fax #: **Phone #:** 701-354-1501

From: Alan Chrest
Fax #: 909-307-3083 **Phone #:** + 19093692857 Ext. 2857
Email: achrest@esri.com

Number of pages transmitted
(including this cover sheet): 3

Quotation #26210017
Document Date: 05/01/2024

Please find the attached quotation for your forthcoming term. Keeping your term current may entitle you to exclusive benefits, and if you choose to discontinue your coverage, you will become ineligible for these valuable benefits and services.

If your quote is regarding software maintenance renewal, visit the following website for details regarding the maintenance program benefits at your licensing level
<http://www.esri.com/apps/products/maintenance/qualifying.cfm>

All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your coverage at a later date.

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If you have any questions or need additional information, please contact Customer Service at 888-377-4575 option 5.



esri[®] 380 New York Street
 Redlands, CA 92373
 Phone: + 190936928572857
 Fax #: 909-307-3083

Quotation

Date: 05/01/2024

Quotation Number: 26210017

BCWRD
 PO Box 1255
 Bismarck ND 58502-1255
Attn: Wendy Egli
Email: bcwrd@midco.net
Phone: 701-222-3499

Send Purchase Orders To:

Environmental Systems Research Institute, Inc.
 380 New York Street
 Redlands, CA 92373-8100
 Attn: Alan Chrest

Please include the following remittance address on your Purchase Order:

Environmental Systems Research Institute, Inc.
 P.O. Box 741076
 Los Angeles, CA 90074-1076

Customer Number: 635910

For questions regarding this document, please contact Customer Service at 888-377-4575.

Item	Qty	Material#	Unit Price	Extended Price
10	1	153148 ArcGIS Online Creator Annual Subscription Start Date: 07/31/2024 End Date: 07/30/2025 Subscription ID: 5493801398	550.00	550.00
			Item Subtotal	550.00
			Estimated Tax	0.00
			Total	USD 550.00

DUNS/CEC: 06-313-4175 CAGE: 0AMS3

Please note Esri has introduced a price change and this quote reflects current pricing for your organization. It is important to us that we are able to continue to deliver value through enhancements to products, solutions, and capabilities.

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Any estimated sales and/or use tax has been calculated as of the date of this quotation and is merely provided as a convenience for your organization's budgetary purposes. Esri reserves the right to adjust and collect sales and/or use tax at the actual date of invoicing. If your organization is tax exempt or pays state taxes directly, then prior to invoicing, your organization must provide Esri with a copy of a current tax exemption certificate issued by your state's taxing authority for the given jurisdiction.

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Quotation

Page 2

Date: 05/01/2024 **Quotation No:** 26210017 **Customer No:** 635910

Item	Qty	Material#	Unit Price	Extended Price
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If there are any changes required to your quotation please respond to this email and indicate any changes in your invoice authorization.

If you choose to discontinue your support, you will become ineligible for support benefits and services. All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your support coverage at a later date.

The items on this quotation are subject to and governed by the terms of this quotation, the most current product specific scope of use document found at <http://assets.esri.com/content/dam/esrisites/media/legal/product-specific-terms-of-use/e300.pdf>, and your applicable signed agreement with Esri. If no such agreement covers any item quoted, then Esri's standard terms and conditions found at <http://assets.esri.com/content/dam/esrisites/media/legal/ma-full/ma-full.pdf> apply to your purchase of that item. Federal government entities and government prime contractors authorized under FAR 51.1 may purchase under the terms of Esri's GSA Federal Supply Schedule. Supplemental terms and conditions found at <http://www.esri.com/en-us/legal/terms/state-supplemental> apply to some state and local government purchases. All terms of this quotation will be incorporated into and become part of any additional agreement regarding Esri's offerings. Acceptance of this quotation is limited to the terms of this quotation. Esri objects to and expressly rejects any different or additional terms contained in any purchase order, offer, or confirmation sent to or to be sent by buyer. Unless prohibited by law, the quotation information is confidential and may not be copied or released other than for the express purpose of system selection and purchase/license. The information may not be given to outside parties or used for any other purpose without consent from Esri. Delivery is FOB Origin.

In order to expedite processing, please reference the quotation number and any/all applicable Esri contract number(s) (e.g. MPA, EA, GSA, BPA) on your ordering document.

USD _____ plus sales tax, if applicable.

Please check one of the following:

I agree to pay any applicable sales tax.

I am tax exempt. Please contact me if Esri does not have my current exempt information on file.

Signature of Authorized Representative

Date

Name (Please Print)

Title



May 9, 2024

Michael Gunsch
Houston Engineering Inc.

ND SHPO Ref.: 21-6022 Sibley Island Flood Control in portions of Burleigh County, North Dakota

Dear Michael,

We reviewed ND SHPO Ref.: 21-6022 Sibley Island Flood Control in portions of Burleigh County, North Dakota, the Sibley Island Flood Control Project Preliminary Engineering Report as submitted to our office on April 17, 2024.

Thank you for sending the Sibley Island Flood Control Project Preliminary Engineering Report. We note the report includes our recommendation from 2021 for a cultural resources survey. We continue to recommend a Class III survey for this project due to the high potential for cultural resources in the vicinity. The Class III survey must follow the "North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects," available at <https://www.history.nd.gov/hp/hpforms.html>. We look forward to continued consultation on this project.

Thank you for the opportunity to review this project and we look forward to reading the report. Please include the ND SHPO Reference number listed above in any future correspondence for this project. If you have any questions please contact Andrew Robinson, State Archaeologist at (701) 328-3575 or andrewrobinson@nd.gov or Margie Patton, Research Archaeologist at (701) 328-3576 or mmpatton@nd.gov.

Sincerely,

for William D. Peterson PhD
State Historic Preservation Officer
(North Dakota)

21-6022

Change Order

No. 2 FINAL

Date of Issuance: 6/4/2024

Effective Date: 6/4/2024

Project: Hogue Island Bank Stabilization Project	Owner: Burleigh County Water Resource District	Owner's Contract No.:
Contract:		Date of Contract: 11/1/2023
Contractor: Bohlman Trenching Service, Inc.		Engineer's Project No.: 6025-0021/0032

The Contract Documents are modified as follows upon execution of this Change Order:

Description:

Item #13 – Response Mobilization Delete 1 at \$1,500.00/EA for a DEDUCT of \$1,500.00

Attachments (list documents supporting change):

CHANGE IN CONTRACT PRICE:

Original Contract Price:

\$479,499.50

[Increase] [Decrease] from previously approved Change Orders No. N/A to No.:

\$79,561.70

Contract Price prior to this Change Order:

\$559,061.20

[Increase] [Decrease] of this Change Order:

\$1,500.00

Contract Price incorporating this Change Order:

\$557,561.20

RECOMMENDED:

By: 

Engineer (Authorized Signature)

Date: 6/4/2024

Approved by Funding Agency (if applicable):

CHANGE IN CONTRACT TIMES:

Original Contract Times: Working days Calendar days

Substantial completion (days or date): May 31, 2024

Ready for final payment (days or date): June 15, 2024

[Increase] [Decrease] from previously approved Change Orders No. N/A to No. N/A:

Substantial completion (days): _____

Ready for final payment (days): _____

Contract Times prior to this Change Order:

Substantial completion (days or date): May 31, 2024

Ready for final payment (days or date): June 15, 2024

[Increase] [Decrease] of this Change Order:

Substantial completion (days or date): 0 Days

Ready for final payment (days or date): 0 Days

Contract Times with all approved Change Orders:

Substantial completion (days or date): May 15, 2024

Ready for final payment (days or date): June 15, 2024

ACCEPTED:

By: _____

Owner (Authorized Signature)

Date: _____

ACCEPTED:

By: _____

Contractor (Authorized Signature)

Date: _____

Date: _____

Contractor's Application for Payment No.

3 FINAL

Application Period: 1/4/24 to 6/4/24		Application Date: 6/4/2024
To (Owner): Burleigh County Water Resource District	From (Contractor): Bohlman Trenching, Inc.	Via (Engineer): Houston Engineering
Project: Hogue Island Bank Stabilization	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.: 6025-0021/6025-0032

**Application For Payment
Change Order Summary**

Approved Change Orders				
Number	Additions	Deductions		
1	\$79,561.70		1. ORIGINAL CONTRACT PRICE.....	\$ 479,499.50
2		-\$1,500.00	2. Net change by Change Orders.....	\$ 78,061.70
			3. Current Contract Price (Line 1 + 2).....	\$ 557,561.20
			4. TOTAL COMPLETED AND STORED TO DATE (Column F on Progress Estimate).....	\$ 557,561.20
			5. RETAINAGE:	
			a. X \$557,561.20 Work Completed.....	\$
			b. X _____ Stored Material.....	\$
			c. Total Retainage (Line 5a + Line 5b).....	\$
			6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c).....	\$ 557,561.20
			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$ 541,460.98
			8. AMOUNT DUE THIS APPLICATION.....	\$ 16,100.22
			9. BALANCE TO FINISH, PLUS RETAINAGE (Column G on Progress Estimate + Line 5 above).....	\$
TOTALS	\$79,561.70	-\$1,500.00		
NET CHANGE BY CHANGE ORDERS	\$78,061.70			

Contractor's Certification

The undersigned Contractor certifies that to the best of its knowledge: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By: _____ Date: _____

Payment of: \$ 16,100.22
(Line 8 or other - attach explanation of the other amount)

is recommended by:  6/4/2024
(Engineer) (Date)

Payment of: \$ _____
(Line 8 or other - attach explanation of the other amount)

is approved by: _____
(Owner) (Date)

Approved by: _____
Funding Agency (if applicable) (Date)

Endorsed by the Construction Specifications Institute.

Progress Estimate

Contractor's Application

For (contract):				Application Number: 3 FINAL				
Application Period:				Application Date:				
A		B	Work Completed		E	F		G
Item	Description	Scheduled Value	C	D	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (E) B	Balance to Finish (B - F)
Specification Section No.			From Previous Application (C+D)	This Period				
	Contract Bond	\$4,900.00	\$4,900.00			\$4,900.00	100.0%	
	Mobilization	\$15,000.00	\$15,000.00			\$15,000.00	100.0%	
	Clearing and Grubbing (Structures)	\$12,150.00	\$12,150.00			\$12,150.00	100.0%	
	Riprap D50 24"	\$160,852.80	\$160,852.80			\$160,852.80	100.0%	
	Gravel Void Fill	\$5,300.00	\$5,300.00			\$5,300.00	100.0%	
	Import Topsoil	\$1,020.00	\$1,020.00			\$1,020.00	100.0%	
	Seeding & Mulching Class II	\$1,800.00		\$1,800.00		\$1,800.00	100.0%	
	Alternate #1							
	Clearing and Grubbing (Residential)	\$26,225.00	\$26,225.00			\$26,225.00	100.0%	
	Geotextile Fabric	\$8,626.00	\$8,626.00			\$8,626.00	100.0%	
	Riprap D50 24"	\$311,987.40	\$311,987.40			\$311,987.40	100.0%	
	Import Topsoil	\$6,900.00	\$6,900.00			\$6,900.00	100.0%	
	Seeding & Mulching Class II	\$2,800.00		\$2,800.00		\$2,800.00	100.0%	
	Response Mobilization							
Totals		\$557,561.20	\$552,961.20	\$4,600.00		\$557,561.20		

Progress Estimate

Contractor's Application #3 FINAL

For (contract):							Application Number: 3			
Application Period:							Application Date:			
A				B	C	D	E	F		
Bid Item No.	Item Description	Bid Quantity	Unit Price	Bid Value	Estimated Quantity Installed	Value	Materials Presently Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F) B	Balance to Finish (B - F)
	Contract Bond	1	\$4,900.00	\$4,900.00	1	\$4,900.00		\$4,900.00	100.0%	
	Mobilization	1	\$15,000.00	\$15,000.00	1	\$15,000.00		\$15,000.00	100.0%	
	Clearing and Grubbing (Structures)	1	\$12,150.00	\$12,150.00	1	\$12,150.00		\$12,150.00	100.0%	
	Riprap D50 24"	2010.66	\$80.00	\$160,852.80	2010.66	\$160,852.80		\$160,852.80	100.0%	
	Gravel Void Fill	20	\$265.00	\$5,300.00	20	\$5,300.00		\$5,300.00	100.0%	
	Import Topsoil	34	\$30.00	\$1,020.00	34	\$1,020.00		\$1,020.00	100.0%	
	Seeding & Mulching Class II Alternate #1	0.09	\$20,000.00	\$1,800.00	0.09	\$1,800.00		\$1,800.00	100.0%	
	Clearing and Grubbing (Residential)	1	\$26,225.00	\$26,225.00	1	\$26,225.00		\$26,225.00	100.0%	
	Geotextile Fabric	1816	\$4.75	\$8,626.00	1816	\$8,626.00		\$8,626.00	100.0%	
	Riprap D50 24"	3670.44	\$85.00	\$311,987.40	3670.44	\$311,987.40		\$311,987.40	100.0%	
	Import Topsoil	230	\$30.00	\$6,900.00	230	\$6,900.00		\$6,900.00	100.0%	
	Seeding & Mulching Class II	0.56	\$5,000.00	\$2,800.00	0.56	\$2,800.00		\$2,800.00	100.0%	
	Response Mobilization		\$1,500.00							
	Totals			\$557,561.20		\$557,561.20		\$557,561.20	100.0%	

Burleigh County Stormwater Management Plan Review

SUBDIVISION: Summit Point First Subdivision

Location: Part of Auditor's Lot 2 of Auditor's Lot 35C of the NW ¼, all of Lot 35B of the SW ¼, Part of Lot 35A of the NW ¼, Part of the NE ¼, Part of Tract D of the SE ¼ and Part of Lot B1 of Lot B of Auditor's Lots 1 & 2 of the SE ¼ of Section 35, Part of Auditor's Lot "B" of the NW ¼ of Section 36, and Part of Auditor's Lot "A" of the SW ¼ of Section 36, Township 140 North, Range 81 West

Engineer: Toman Engineering Company



DATE: May 20, 2024

Burleigh County Highway Department:

Storm Water Management Plan (Casey Einrem)

1. All Burleigh County comments have been addressed and the Storm Water Management Plan as submitted on May 20, 2024 (The second one of the day with drawing corrections) is approved.

Application to the Burleigh County Water Resource District (BCWRD) may move forward for the consideration of the permit to work in the NDDOT Right-of-Way. The NDDOT may have comments and considerations remaining for the portion within North Dakota Right-of-Way.

REQUEST FOR DRAINAGE ON HIGHWAY RIGHT OF WAY

North Dakota Department of Transportation, Maintenance
SFN 50909 (11-2017)

Highway & Mile Posts

1	8	0	4	8	8	.	6		
							District Number	0	1

Name of Person Requesting Permit (Applicant) SP Developers, LLC			Date 5/21/2024
Address 555 Highway 1804 NE	City Bismarck	State ND	ZIP Code 58503
Telephone Number 701-220-4124	Email Address cam@knutsonteam.com		

LOCATION OF PROPOSED WORK (to be completed by the applicant)


Size of Drainage Area in Total Acres 1,130	Water Resource District Burleigh County		
County Burleigh	Section 35	Township 140N	Range 81W
Description of proposed work Construction of Everest Drive approach with Highway 1804. The work involves ditch cleaning, placing of compacted fill, and the salvage and reinstallation of an existing 18-inch RCP culvert with new RCP culvert extensions. See attached drawing for detail.			

WETLAND REVIEW (to be completed by the applicant)

This application is for the single purpose of cleaning a ditch to its original design evaluation and will not require a wetlands review:
 Yes No

If you answered no to the above, the applicant is required to work with the National Resources Conservation Service and, if necessary, the Corps of Engineers, US Fish and Wildlife and North Dakota Game and Fish, to ensure no wetlands are impacted by the proposed project.
 Wetland impacted: Yes No

APPLICANT:

Name (Type or Print) Cameron Knutson	Title President
Signature 	Date 5/21/2024

TO BE COMPLETED BY THE WATER RESOURCE DISTRICT AND NDDOT

Action Required by Water Resource District - **Please note:** The signature receiving or approving the Water Resource Districts Action should be by a representative of the Water Resource District given the authority to sign.

Received by Water Resource District:	Approved by Water Resource District:	Approved by ND Department of Transportation
Signature	Signature	Signature
Name (Type or Print)	Name (Type or Print)	Name (Type or Print)
Date	Date	Date
		Work shall be completed by:
		Date

Request for Drainage on Highway Right of Way Specifications

Landowners Request for Drainage on Highway Right of Way must be reviewed or approved by the Water Resource District.

Written confirmation from the Natural Resources Conservation Service and, if necessary, the Corps of Engineers, US Fish and Wildlife and North Dakota Game and Fish, is required to verify there are no wetland impacts. Written confirmation shall be submitted with SFN 50909.

Requirements for Projects involving Ditch Maintenance:

1. When the drainage work involves ditch cleaning, ditch elevations should be re-established to the original grade line to match the existing invert culvert elevations.
2. Disturbed areas shall be left in a neat appearing condition. The existing in slope and back slopes shall be maintained.
3. All disturbed areas shall be re-seeded. Measures shall be taken to prevent erosion from occurring.
4. All work and associated costs are the responsibility of the applicant.
5. The applicant is responsible for obtaining all utility locates prior to beginning any work within the highway right of way.
6. Effective November 24, 2008, the applicant shall be required to wear an ANSI/ISEA 107-2004 Class II high visibility garment while within the highway right-of-way as per the requirements of 23 CFR 634.
7. Drainage work shall be conducted so as to ensure the safety of the public as well as the people who are working at the site.
8. The highway access control fence may be temporarily relocated during ditch cleaning. The fence shall be replaced in its existing location and restored to its original condition or better.

Requirements for Projects other than Ditch Maintenance:

Requests for lowering ditch grades or culverts, adding culverts or increasing culvert sizes, installing berms or ditch blocks or changes in the size of the drainage area, the following information will be required:

1. A hydraulic analysis shall be performed and approved by a Registered Engineer in the state of North Dakota. The hydraulic analysis shall show size of drainage area, discharges for 10, 25, 50 and 100 year peak flows, depth of flow for peak flows and headwater elevations for peak flows. All peak flows shall be calculated using the USGS Method (*Techniques for Estimating Peak-Flow Frequency Relations for North Dakota Streams*) for rural areas or Rational Method for urban areas for existing and proposed conditions. Upstream and downstream impacts need to be identified.
2. A Set of Construction drawings approved by a Registered Engineer in the state of North Dakota shall be submitted showing existing and proposed ditch and culvert elevations. Cross section drawings will be required for ditches, approaches, berms and ditch blocks.
3. If the request is approved by the District Engineer, a NDDOT Drainage Permit will be required to perform the work.

Requirements for Field Drain Tile and Pumping Adjacent to State or Interstate Roadways:

See Attachment A. Attachment A is needed when processing requests for field drain tile and pumping only. It does not need to be attached for standard day to day drainage requests.

SCALE: 1" = 20'



ND HIGHWAY 1804

MILE 88.6

X 1650.48

BEGIN 200'
VERTICAL
CURVE

X 1650.27

INV: 1645.50

100' ROW

EXISTING
PRIVATE DRIVE
(TO BE REMOVED)

EVEREST DR

X 1651.86

INV: 1644.90

REMOVE EXISTING
ASPHALT

REMOVE & REPLACE EXISTING 18"
RCP & EXTEND PIPE (INCLUDES
FLARED END SECTIONS)

EROSION
CONTROL
BLANKET

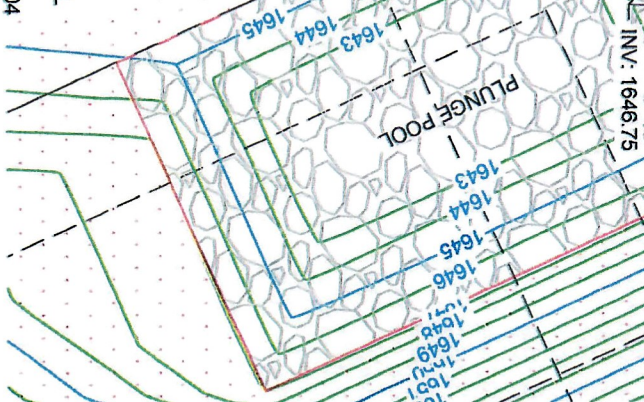
NOTE: PLUNGE POOL & DISCHARGE
AREA SHALL BE RIPRAPPED.
EROSION CONTROL BLANKET SHALL
BE PLACED IN DITCH TO EXISTING
CULVERTS CROSSING HIGHWAY 1804

PLUNGE POOL

INV: 1646.75

24' ASPHALT

31' SHOULDER



SHEET NUMBER
1
OF 1 SHEETS

PROJECT:
**APPROACH
ND HWY 1804 & EVEREST DRIVE
BISMARCK, NORTH DAKOTA**



TOMAN ENGINEERING
501 1st Street NW, Mandan, ND 58554
Phone: 701-663-6483 * Fax: 701-663-0923
Page 24 of 204
BCWRD June 2024



TOMAN ENGINEERING
COMPANY

CONSULTING CIVIL ENGINEERS

**SUMMIT POINT
FIRST SUBDIVISION**

**STORM WATER MANAGEMENT
DESIGN REPORT**

Prepared by: Toman Engineering Company

May 20, 2024

TECO # 4468B

Submitted to: Burleigh County, ND

SUMMIT POINT FIRST SUBDIVISION

STORMWATER MANAGEMENT DESIGN REPORT

Prepared by: Toman Engineering Company
May 20, 2024
TECO #4468B
Submitted To: Burleigh County, ND



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SUMMIT POINT FIRST SUBDIVISION

Storm Water Management Plan

EXISTING SITE PLAN

A. **Applicant:**

SP Developers, LLC
555 Highway 1804 NE
Bismarck, North Dakota 58503

B. **Contact Person:**

Toman Engineering Company
Attn: David Thompson
501 1st Street Northwest
Mandan, ND 58554
Phone: (701) 663-6483

C. **Site Location:**

The Summit Point First Subdivision site is part of Auditor's Lot 2 of Auditor's Lot 35C of the NW1/4, all of Lot 35B of the SW1/4, part of Lot 35A of the NW1/4, part of the NE1/4, part of Tract D of the SE1/4 and part of Lot B1 of Lot B of Auditor's Lots 1 & 2 of the SE1/4 of Section 35, part of Auditor's Lot B of the NW1/4 of Section 36, and part of Auditor's Lot A of the SW1/4 of Section 36, T140N, R81W, Riverview Township, Burleigh County, North Dakota as shown on Sheets 1 and 9.

D. **Existing Topography Map:**

The existing topography map shown on Sheet 2 was taken from a topography survey prepared by Toman Engineering.

E. **Watershed Map:**

The project site is located on an unnamed watershed that drain towards Burnt Creek and westward towards the Missouri River.

F. **Stream Delineation, Public Waters, Wetlands, and their Description:**

The project site is located near Burnt Creek and an unnamed tributary to Burnt Creek and the Missouri River. Sheet 3 shows the NWI map for the area.

G. Existing Storm Water Facilities:

The existing storm water facilities in the project area consist of road ditches, ditches, road culverts and approach culverts along existing roads in the area.

H. Soil Types:

NRCS soils data was utilized for the area shown on Sheets 4 and 5 indicating the soil type is silty loam. The major soil classification in this area is a Mandan-Linton which the "Hydrology Manual for North Dakota" classifies as "B" soils. For the purpose of this analysis, a "B" soil classification was used. The erosion potential for these types of soils is 1.9 mm/yr.

Soil borings were also done for construction purposes. It appears that the soil strata are topsoil followed by lean clay, fat clay, and silty sands. These soils were analyzed for construction materials and found to be suitable for construction of roads, diversion ditches and embankments.

I. Current Vegetative Cover:

The project site is currently undeveloped and considered to be pasture in fair condition.

J. Current Land Use:

The current use of the plat area is 127.36 acres of undeveloped land consisting of pasture in fair condition.

K. 100-year Floodplain, Flood-fringes, and Floodways:

The extreme southerly tips of Lots 10-16 of Block 8 in Summit Point 1st Subdivision along Spruce Creek Road are located within the Burnt Creek floodway and floodplain.

CONSTRUCTION SITE PLAN

A. Location and Dimension of Proposed Land Disturbing Activities and Phasing or Schedule of those Activities:

Construction activities that are expected to take place within the 127.36 acres of the plat area will consist of residential construction along with associated road construction. Presently, 111.61 acres will become residential area with 69.25 acres of disturbed area of which 15.75 acres will be roads. Construction is expected to start as soon as possible in 2022 and be completed in the summer of 2024.

B. Approximate Location of all Temporary Soil or Dirt Stockpile Areas:

Temporary stockpile locations will be within the project limits as needed. Stockpiles will be relocated as construction proceeds through the area and will be protected by silt fence or other appropriate wind or water erosion control measures.

C. Location and Description of Construction Site Erosion Control Measures:

The project area is classified as a large construction site (greater than 5 acres) by the North Dakota Department of Environmental Quality. Best management practices shall be used to control erosion as necessary during construction. These practices include, but are not limited to, retention ponds, silt fence, straw bales, wattles and vegetative strips. Temporary seeding will also be used to control erosion.

D. Schedule of Anticipated Start and Completion Dates:

Construction is expected to start as soon as possible and be completed in the summer of 2024.

E. Provisions for Maintaining the Construction Site Erosion Control Measures Prior to, During, and After Construction:

Prior to construction, implementation of erosion and sediment control measures will be discussed with the contractor. Inspection and maintenance measures will also be discussed. Control measures will be implemented prior to construction and adjusted as needed once construction is underway.

During construction, control measures will be monitored and adjusted or added to as necessary to prevent and contain erosion on site. It is intended that the best management practice will be used to accomplish this task and includes but is not limited to the use of retention ponds, silt fence, straw bales, wattles, rock checks, and temporary seeding. Once in place, control facilities will be inspected regularly and documented. Sediment will be removed as needed and maintenance performed as required to control erosion and sediment on the site during construction.

After construction has been completed, erosion and sediment control measures shall remain in place until all landscaping and seeding has been completed. Erosion control measures will be kept in place as long as the potential for erosion exists. Removal of protection measures will be done only after all development has been completed and the site has been stabilized.

PLAN OF FINAL SITE CONDITIONS

A. **Final Grading Plan, Showing Relationship to Existing Conditions:**

The grading plan for the project site is shown on Sheet 6. The area will be graded so that roads and residential buildings can be constructed. Runoff will continue to flow in the same direction as existing conditions except for runoff diverted by roads.

B. **Proposed Landscape Plan:**

Once construction is complete, finished grade cover shall consist of buildings, driveways, grass, landscaping and paved roads.

C. **Drainage Plan for Developed Site:**

Drainage for the property is shown on Sheet 6A. Drainage for the area will consist of road ditches with culverts, diversion ditches, detention pond areas, and rock dams.

D. **Proposed Structure Size:**

Various building sizes will be constructed on the different residential lots.

E. **Proposed Areas to be Surfaced:**

Existing area of impervious ground: 0.0 acres

Proposed area of impervious ground Summit Point 1st Subdivision: 13.7 acres

STORMWATER MANAGEMENT PLAN REPORT

A. **Pre- and Post-Development Hydrology and Hydraulic Analysis:**

The Existing Conditions Summit Point 1st Subdivision of the undeveloped watershed areas was compared to the Proposed Conditions Summit Point 1st Subdivision (Phase 1). The Existing Condition Watershed areas which contribute to Summit Point 1st Subdivision (Phase 1) watersheds are shown on Sheet 2. The Proposed Conditions Summit Point 1st Subdivision (Phase 1) watersheds are shown on Sheets 6A-6E.

Hydrology developed for the Stormwater Management Plan involved analyzing the effects of the peak runoff from the 2 year-24 hour (2.06 inches),

10 year-24 hour (3.11 inches), 15 year-24 hour (3.34 inches), 25 year-24 hour (3.93 inches) and the 100 year-24 hour (5.29 inches) on the Existing and Phase 1 conditions. The 15 year-24-hour rain event was used to size road culverts within the plat area to meet North Dakota Stream Crossing Standards.

EXISTING CONDITION WATERSHED ANALYSIS

Existing Condition Summit Point 1st Subdivision (Phase 1) Watersheds

The total contributing watershed areas for the Existing Condition watersheds is shown on Sheet 2. Seven watershed areas were identified. Point of Analysis (POA) locations are shown on Sheet 2.

HydroCad software was used to develop the peak runoff amounts for the Storm Water Management Plan. Table 1 shows the area, CN number, and time of concentration used for each watershed area.

Table 1
Existing Condition Watershed Information

<u>Watershed</u>	<u>Acres</u>	<u>CN</u>	<u>TOC(min)</u>
WS#1(POA 1)	951.79	69	See WS#1
WS#2(POA 2)	29.37	69	7
WS#3(POA 3)	226.38	69	77
WS#4(POA 4)	27.40	69	5
WS#5(POA 5)	38.63	69	30
WS#6(POA 6)	20.46	69	21
WS#7(POA 7)	116.47	70	81

Watershed #1 (POA 1) Existing Condition

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC(min)</u>
WS#1			
-WS#1PRE	21.48	69	11
-WS#DP7	173.34	69	147
-WS#DP8	757.993	69	196

Watershed #1 is located in the western portion of the project area. This watershed contains all areas that currently flow to the location of Highway 1804 Culvert 1 as shown on Sheet 2. Watershed #1 is made up of three

watersheds labeled WS#1PRE, WSDP7, and WSDP8. Watershed WSDP8 flows through existing Detention Pond 8 before flowing to existing Detention Pond 7. Watershed WSDP7 combines with flows from Detention Pond 8 and flows to Detention Pond 7. WS#DP9 drains to Detention Pond 9 and through Road Culvert 1 (RC 1) in the existing driveway. The downstream flow from RC 1 is POA #7. Outlet flows from Detention Ponds 7 and 9 combine with runoff from WS#1PRE, from which the peak runoff at POA #1 is determined. Runoff from POA 1 combines with runoff from POA #7 before draining to the 4 48-inch culverts at Highway 1804.

Table 2 shows the peak flows generated by Watershed #1.

Table 2
Watershed #1 Peak Flows Existing Condition

<u>Event</u>	<u>Existing QPeak (cfs)</u>
2-year	7.67
10-year	73.02
15-year	95.69
25-year	149.03
100-year	311.06

Watershed #2 (POA 2) Existing Conditions

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
WS#2A	28.76	69	7
WS#2B	0.61	84	5

Watershed #2 is located directly east of Watershed #5 and is 29.37 total acres. Runoff drains south to an existing depression area before overflowing to an existing culvert under Blue Spruce Road. This culvert is identified as Road Culvert 8 on Sheet 2 and is an existing 15-inch culvert, 44 feet in length, with an invert elevation of 1729.67, an outlet elevation of 1729.50, and a road top elevation of 1734. Watershed #2A flows into the depression area and Watershed #2B is the road ditch area between the depression area and Road Culvert 8.

Table 3 shows the result of the analysis done for Watershed #2 and Road Culvert 8.

Table 3
Watershed #2 Existing Conditions

Event	WS#2A QPeak (cfs)	WS#2B QPeak (cfs)	Culvert Peak (cfs)	Vel (fps)
2-year	8.18	.89	.89	1.89
10-year	34.00	1.81	1.81	2.36
15-year	40.78	2.02	2.02	2.45
25-year	59.43	2.57	2.57	2.63
100-year	107.41	3.85	6.77	5.51

Watershed #3 (POA 3) Existing Conditions

Plan	Acres	CN	TOC
WS #3A	27.10	73	17
WS #3B	199.29	69	77

Watershed #3 is located at the eastern end of the project site with the watershed area being 226.38 acres. Runoff from Watershed #3B uses various drainageways to reach an existing stock pond which does not have an outlet pipe but has an emergency spillway at elevation 1740. From the existing stock pond, this runoff combines with runoff from Watershed #3A to continue west to two existing 36-inch diameter culverts labeled as Road Culvert 15 on Sheet 2. These culverts have invert elevations of 1721.52 with outlet elevations of 1721.10 and 1720.85 and a road top elevation of 1728.

Existing Stock Pond

Elevation	Square Feet
1736	995
1738	13,578
1740	29,318
1742	87,389

Table 4 shows the results of the analyses done for Watersheds #3B and the existing stock pond.

Table 4
Watershed #3B/Existing Stock Pond

Event	WS#3B QPeak In(cfs)	Stock Pond QPeak Out(cfs)	Res Elev	Vel (fps)
2-year	12.45	5.87	1740.20	1.44
10-year	53.35	48.65	1740.76	2.78
15-year	65.06	60.55	1740.87	2.96
25-year	98.05	93.61	1741.13	3.35
100-year	184.91	180.51	1741.65	3.89

Table 4A shows the results of the analyses done for Watersheds #3A and Road Culvert 15.

Table 4A
Watershed #3A/Road Culvert 15

Event	WS #3A QPeak (cfs)	RC 15 QPeak In(cfs)	RC 15 QPeak Out(cfs)	RC 15 Res Elev	Vel (fps)
2-year	8.72	8.72	8.09	1722.49	2.80/3.28
10-year	28.66	51.53	50.70	1724.19	4.80/5.33
15-year	33.74	63.94	62.58	1724.60	5.10/5.61
25-year	47.57	98.33	91.52	1726.18	6.29/6.66
100-year	82.45	188.43	188.14*	1728.30	8.94/9.20

*-59.87 cfs of this flow overtops the road. Velocity is 1.77 fps.

Watershed #4 (POA 4) Existing Conditions

Plan	Acres	CN	TOC
WS #4	27.4	69	5

Watershed #4 is located in the southern portion of the project area. The entire area is undeveloped and flows southward towards Burnt Creek. There are various channels which convey runoff to the south

Table 5 shows the peak flows generated by Watershed #4.

Table 5
Watershed #4 Existing Condition

Event	QPeak (cfs)
2-year	8.78
10-year	35.36
15-year	42.30
25-year	61.40
100-year	110.46

Watershed #5 (POA 5) Existing Conditions

Plan	Acres	CN	TOC
WS #5	38.63	69	30

Watershed #5 is located in the southern portion of the project area just west of Watershed #2. The entire area is undeveloped and flows southward towards the north road ditch along Blue Spruce Road. Flows travel through 2-36" culverts identified as Highway 1804 Culvert 3 then to the Missouri River.

Table 6 shows the peak flows generated by Watershed #5.

Table 6
Watershed #5 Existing Condition

Event	QPeak (cfs)
2-year	4.43
10-year	20.56
15-year	25.06
25-year	37.67
100-year	70.81

Watershed #6 (POA 6) Existing Conditions

Plan	Acres	CN	TOC
WS #6	20.46	69	21

Watershed #6 is located in the western portion of the project area just east of Highway 1804. The entire area is undeveloped and flows southwest towards Highway 1804 Culvert 2. Runoff then flows to the Missouri River.

Table 7 shows the peak flows generated by Watershed #6.

Table 7
Watershed #6 Existing Condition

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	3.01
10-year	13.97
15-year	16.99
25-year	25.37
100-year	47.15

Watershed #7 (POA 7) Existing Condition

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC(min)</u>
WSDP9	116.47	70	81

Watershed #7 is located in the western portion of the project area. This watershed contains all areas that currently flow to the location of the existing Road Culvert 1 or Point of Analysis (POA) #7 as shown on Sheet 2. Watershed #WSDP9 is made up of one watershed labeled WSDP9. This watershed flows through existing Detention Pond 9 before flowing across Highway 1804 to the west or to the four 48-inch culverts at Highway 1804 (Highway Culverts 1).

Table 8 shows the peak flows generated by Watershed #7.

Table 8
Watershed WSDP9 Peak Flows Existing Condition

<u>Event</u>	<u>Existing QPeak (cfs)</u>
2-year	8.30
10-year	32.60
15-year	39.30
25-year	58.28*
100-year	108.12**

*-11.64 cfs flow over Highway 1804 and flows west. Velocity is .82 fps.

**-87.05 cfs flow over Highway 1804 and flows west. Velocity is 1.63 fps.

EXISTING CONDITION WATERSHED SUMMARY

Table 9 shows a summary of the peak runoff produced for each Watershed for the Existing Condition. Runoff from Watershed 2 will pass through Road Culvert 8 while runoff from Watershed 3 will pass through Road Culvert 15 as shown on Sheet 2. A total of the pre development runoff rates for each of the existing conditions is also shown in this table.

Table 9
Watershed Summary

Summary Watersheds Existing Conditions

WS/POA	Q PEAKS (cfs)				
	2 YR	10 YR	15 YR	25YR	100 YR
1	7.67	73.02	95.69	149.04	311.06
2	.89	1.81	2.02	2.57	6.77
3	8.09	50.70	62.58	91.52	188.14
4	8.78	35.36	42.30	61.40	110.46
5	4.43	20.56	25.06	37.67	70.81
6	3.01	13.97	16.99	25.37	47.15
7(TOTAL)	8.30	32.60	39.30	58.28	108.12
7(RC9 ONLY)	4.99	12.85	14.21	16.61*	17.01**

*-Total flow is 58.28 cfs of which 11.64 cfs flows over Highway 1804 and flows west. Velocity is .82 fps.

**-Total flow is 108.12 cfs of which 87.05 cfs flows over Highway 1804 and flows west. Velocity is 1.63 fps.

PROPOSED CONDITION WATERSHED ANALYSIS

Phase 1 Watershed Proposed Conditions

Phase 1 Watershed Proposed Condition areas are comprised of 26 watersheds as shown on Sheets 6A-6E. HydroCad software was used to develop the peak runoff amounts for the Storm Water Management Plan. Table 10 shows the acreage, CN number, and time of concentration (TOC) used for each watershed area.

Road culverts associated with these subdivisions are addressed in the Road Culvert section on page 27 of this report.

Table 10
Phase 1 Watershed Proposed Condition Information

Watershed	Acres	CN	TOC(min)
WS A	5.38	68	12
WS B	1.37	76	5
WS C	4.9	73	7
WS D	24.85	71	46
WS E	3.24	76	30
WS F	2.49	67	5
WS FA	15.32	67	21
WS G	28.25	69	42
WS H	11.48	71	34
WS I	0.66	79	8
WS J	7.0	72	11
WS K	17.82	69	37
WS KA	.80	77	11
WS KB	1.10	78	8
WS L	7.5	71	26
WS M	172.5	69	81
WS N	9.00	66	11
WS O	3.85	68	17
WS P	2.3	74	5
WS Q	3.51	71	24
WS R	4.72	74	27
WS S	1.40	76	22
WS T	20.84	68	7
WS U	10.00	70	8
WS V	2.33	61	5
WS W	13.48	65	32

Watershed A

Plan	Acres	CN	TOC
Phase 1	5.38	68	12

Watershed A is located in the western portion of the project areas shown on Sheet 6B. Runoff from this watershed will flow towards the existing drainageway/pond area flowing to proposed Road Culvert 2. WS B will flow along the south road ditch of Estancia Drive where it will turn to the southwest towards Road Culvert 3A and enter the same area as WS A. Runoff from WS C will carry runoff from WS D and G through Road Culvert 5 along the north road ditch of Estancia Drive east of Everest Drive and WS H through Road Culvert 9 to Detention Pond 1 then Road Culvert 5 through Road Culvert 4 along the north side of Estancia Drive and then eventually

Road Culvert 3A where it will also join runoff from WS A. Runoff from WS E will flow along the southern road ditch of Estancia east of Everest Drive. Additional runoff will come from WS G and H through Road Culvert 6 located just west of the intersection of Estancia Drive and Olympus Drive. This runoff will flow down the eastern side of Everest Drive until it reaches Road Culvert 3B where it will join runoff from WS A at Road Culvert 2.

Table 11 shows the peak flows generated by these watersheds for Phase 1 proposed conditions.

Table 11
Watershed A Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	0.94
10-year	4.69
15-year	5.71
25-year	8.52
100-year	15.93

Watershed B

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	1.37	76	5

Watershed B is located in the western portion of the project areas shown on Sheets 6B. The entire area will flow southeast towards the south road ditch along the proposed Estancia Drive. Once runoff enters the road ditch of Estancia Drive it will flow eastward to the ditch along the west side of Everest Drive until it reaches Road Culvert 3A (see Sheets 6B). Table 12 shows the peak flows generated by this watershed for Phase 1 proposed conditions.

Table 12
Watershed B Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.06
10-year	2.75
15-year	3.16
25-year	4.24
100-year	6.89

Watershed C

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	4.9	73	7

Watershed C is located in the western portion of the project areas shown on Sheet 6B. The entire area will flow southward towards the road ditch along the northern side of Estancia Drive. Once runoff enters the road ditch it will flow eastward to Road Culvert 4. This culvert is located along the west side of Everest Drive and flows towards Road Culvert 3A (see Sheet 6B). Table 13 shows the peak flows generated by this watershed for Phase 1 proposed conditions.

Table 13
Watershed C Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	2.49
10-year	7.61
15-year	8.89
25-year	12.31
100-year	21.08

Watershed D

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	24.85	71	46

Watershed D is located in the western portion of the project areas shown on Sheet 6B. The entire area will flow southward towards the north road ditch along Estancia Drive. Once runoff enters the road ditch it will flow westward to proposed Road Culvert 5. This culvert is located under Everest Drive and transfers runoff to Road Culvert 4 located under Estancia Drive along the west side of Everest Drive and flows towards Road Culvert 3A (see Sheet 6B). Table 14 shows the peak flows generated by this watershed for Phase 1 proposed conditions.

Table 14
Watershed D Proposed Conditions Runoff
Phase 1

Event	Phase 1 QPeak (cfs)
2-year	2.98
10-year	11.49
15-year	13.79
25-year	20.16
100-year	36.68

Watershed E

Plan	Acres	CN	TOC
Phase 1	3.24	76	30

Watershed E is shown on Sheet 6B. The entire area will flow along the south ditch of Estancia Drive to the southeast ditch of Everest Drive to which it flows into Road Culvert 3B and then into Road Culvert 3A. From Road Culvert 3A runoff will flow to Detention Pond 6 then to Road Culvert 2 to Highway 1804 Culvert 1. Runoff from this watershed combines with runoff coming from Road Culvert 6. Table 15 shows the peak flows generated by Phase 1 proposed conditions.

Table 15
Watershed E Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.02
10-year	2.90
15-year	3.37
25-year	4.63
100-year	7.78

Watershed F

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	2.49	67	5

Watershed F is shown on Sheet 6B. The entire area will flow southwest towards Highway 1804. Runoff will flow west of the ditch block in ND Highway 1804 to Highway 1804 Culvert 1 then to the Missouri River. Table 16 shows the peak flows generated by Phase 1 proposed conditions.

Table 16
Watershed F Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	.54
10-year	2.73
15-year	3.32
25-year	4.91
100-year	9.24

Watershed FA

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	15.32	67	21

Watershed FA is shown on Sheet 6B. The entire area will flow southwest towards Highway 1804 Culvert 2 because of a ditch block in Highway 1804 which splits Watershed F and FA. Runoff from Watershed F will flow to Highway 1804 Culvert 1 location, while runoff from Watershed FA will flow to Highway 1804 Culvert 2. All flow through culverts under Highway 1804

makes its way to the Missouri River. Table 17 shows the peak flows generated by Phase 1 proposed conditions.

Table 17
Watershed FA Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.48
10-year	8.69
15-year	10.80
25-year	16.69
100-year	32.32

Watershed G

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	28.25	69	42

Watershed G is shown on Sheet 6A1. The entire area will flow southward towards the north road ditch along Estancia Drive. Once in the ditch, some runoff will flow into Road Culvert 6 and then through both Estancia ditches to Road Culverts 3A, 4, and 5 on the north side and 3B on the south side. The remaining runoff will travel westward to Road Culvert 5 then into Road Culvert 4 and finally to Road Culvert 3A which Road Culvert 3B will flow into. Table 18 shows the peak flows generated by Phase 1 proposed conditions.

Table 18
Watershed G Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	2.60
10-year	11.80
15-year	14.40
25-year	21.67
100-year	40.85

Watershed H

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	11.48	71	34

Watershed H is located along the eastern edge of Mickelson Drive and northern edge of Estancia Drive as shown on Sheet 6C. The entire area will flow west toward Road Culvert 9 and then to Detention Pond 1, then to the drainage swale and eventually to the road ditch along the north side of Estancia Drive. As with Watershed G, runoff will split between Road Culvert 6 and 5. Runoff using Road Culvert 6 will flow along the south side of Estancia Drive to Road Culvert 3B. The remaining runoff will travel westward to Road Culvert 5 then into Road Culvert 4 and finally to Road Culvert 3A which Road Culvert 3B will flow into. Table 19 shows the peak flows generated by Phase 1 proposed conditions.

Table 19
Watershed H Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.70
10-year	6.60
15-year	7.92
25-year	11.55
100-year	20.97

Watershed I

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	0.66	79	8

Watershed I is located along the western edge of Olympus Drive as shown on Sheet 6C. The entire area will flow south towards the road ditch along the north side of Blue Spruce Road to Highway 1804 Culvert 3. Table 20 shows the peak flows generated by Phase 1 proposed conditions.

Table 20
Watershed I Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	0.59
10-year	1.38
15-year	1.57
25-year	2.07
100-year	3.32

Watershed J

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	7	72	11

Watershed J is located along the eastern edge of Olympus Drive as shown on Sheet 6C. The entire area will flow west towards the road ditch along the east side of Olympus Drive and then to Road Culvert 7 located in the north road ditch of Blue Spruce Road. Runoff from Road Culvert 7 then combines with runoff from Watershed I to flow down the ditch along Blue Spruce Road to Highway 1804 Culvert 3. Table 21 shows the peak flows generated by Phase 1 proposed conditions.

Table 21
Watershed J Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	2.56
10-year	8.63
15-year	10.19
25-year	14.37
100-year	25.22

Watersheds K, KA, and KB

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1			
K	17.82	69	37
KA	.80	77	11
KB	1.10	78	8

Watersheds K, and KA, KB are located east of Watershed J as shown on Sheet 6C. Watershed area K will flow south into Detention Pond 2 and out through a five-inch culvert and towards an existing culvert in Blue Spruce Road labeled as Road Culvert 8. Watershed KA is the road ditch area along Blue Spruce Road and will flow west towards Road Culvert 8. Watershed KB was split off of Watershed KA and flows through Road Culvert 18 to Road Culvert 15 via an 18-inch high ditch block in the road ditch. Table 22 shows the peak flows generated by Phase 1 proposed development.

Table 22
Watersheds K, KA, and KB Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>K QPeak (cfs)</u>	<u>KA Qpeak (cfs)</u>	<u>KB Qpeak (cfs)</u>
2-year	1.78	.52	.90
10-year	8.16	1.34	2.19
15-year	9.96	1.55	2.50
25-year	15.00	2.07	3.32
100-year	28.23	3.40	5.37

Watershed L

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	7.5	71	26

Watershed L is located on the eastern edge of Watershed K as shown on Sheet 6D. The entire area will flow south towards proposed Road Culvert 10 and will combine with flows from Watershed U and Road Culvert 16. These combined flows will flow into Detention Pond 5 after leaving Road Culvert 10. Flows from Detention Pond 5 will then flow to Road Culvert 15. Table 23 shows the peak flows generated by Phase 1 proposed conditions.

Table 23
Watershed L Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.34
10-year	5.21
15-year	6.24
25-year	9.08
100-year	16.40

Watershed M

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	172.50	69	81

Watershed M is located on the eastern edge of Phase 1 as shown on Sheet 6D. The entire area will flow west towards proposed Road Culvert 11, which will cross the proposed extension of Blue Spruce Road. Table 24 shows the peak flows generated by Phase 1 proposed conditions. This Watershed will also have a temporary ditch having a bottom width of 10 feet with 3 to 1 sideslopes with a beginning elevation of 1752 and an ending elevation of 1750.

Table 24
Watershed M Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	10.55
10-year	44.42
15-year	54.00
25-year	81.10
100-year	153.29

Watershed N

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	9.00	66	11

Watershed N is located directly east of White Spruce Road as shown on Sheet 6D. The watershed area will flow toward an existing drainageway which flows into existing Road Culvert 15, which crosses White Spruce Road. Flows from this watershed will combine with flows from Detention Ponds 4 and 5, in addition to Road Culverts 10, 11, 16, and 18. Additional watersheds which will contribute flows include Watersheds KB, L, M, N, O, U and V. Table 25 shows the peak flows generated by Phase 1 proposed conditions.

Table 25
Watershed N Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.03
10-year	6.83
15-year	8.47
25-year	13.07
100-year	25.48

Watershed O

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	3.85	68	17

Watershed O is located south of Blue Spruce Road and west of Spruce Creek Road, as shown on Sheet 6D. The entire area will flow west towards Detention Pond 5 which will have 2-18" outlet pipes, 2-12" outlet pipes, a weir, and an emergency spillway for flow to travel westward to Road Culvert 15. Table 26 shows the peak flows generated by Phase 1.

Table 26
Watershed O Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	.53
10-year	2.75
15-year	3.37
25-year	5.07
100-year	9.61

Watershed P

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	2.3	74	5

Watershed P is located north of Cascata Terrace and east of Spruce Creek Road, as shown on Sheet 6D. The entire area will flow southwest in each road ditch and will flow toward Road Culvert 12. Table 27 shows the peak flows generated by Phase 1 proposed conditions.

Table 27
Watershed P Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.44
10-year	3.99
15-year	4.64
25-year	6.57
100-year	10.75

Watershed Q

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	3.51	71	24

Watershed Q is located along the eastern edge of Spruce Creek Road as shown on Sheet 6E. The entire area will flow south then west towards Road Culvert 14. Table 28 shows the peak flows generated by Phase 1 proposed conditions.

Table 28
Watershed Q Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	0.66
10-year	2.57
15-year	3.08
25-year	4.49
100-year	8.05

Watershed R

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	4.72	74	27

Watershed R is located along the western edge of Spruce Creek Road as shown on Sheet 6E. The part of the watershed area will flow south to the north ditch of Spruce Creek Road and then concentrates in the north ditch to flow west into Road Culvert 13. The other part will flow eastward in the north ditch of Spruce Creek Road to the same road culvert. Table 29 shows the peak flows generated by Phase 1 proposed conditions.

Table 29
Watershed R Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	1.26
10-year	3.97
15-year	4.67
25-year	6.57
100-year	11.29

Watershed S

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	1.4	76	22

Watershed S is located along the southern edge of Spruce Creek Road as shown on Sheet 6E. The entire area will flow east towards Road Culvert 13 then to Road Culvert 17 and finally to Detention Pond 11. Table 30 shows the peak flows generated by Phase 1 proposed conditions.

Table 30
Watershed S Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	0.55
10-year	1.53
15-year	1.78
25-year	2.45
100-year	4.07

Watershed T

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	20.84	68	7

Watershed T is located along the southern and eastern edge of Spruce Creek Road as shown on Sheet 6E. The entire area will flow south and east towards Burnt Creek. Watersheds P, Q, R, S, W, as well as Road Culverts 12, 13, 14, 17, and Detention Ponds 3 and 11 also contribute flows to this Watershed. Table 31 shows the peak flows generated by Phase 1 proposed conditions.

Table 31
Watershed T Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	4.86
10-year	22.40
15-year	27.09
25-year	40.55
100-year	73.65

Watershed U

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	10	70	8

Watershed U is located north of Estancia Drive and west of Spruce Creek Road, as shown on Sheet 6D. The entire area will flow south towards Road Culvert 16. Table 32 shows the peak flows generated by Phase 1 proposed conditions.

Table 32
Watershed U Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	3.18
10-year	12.14
15-year	14.48
25-year	20.78
100-year	37.43

Watershed V

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	2.33	61	5

Watershed V is located in the sewage treatment area north of Spruce Creek Road. Runoff will flow toward Detention Pond 4, then a 15-inch culvert from Detention Pond 4 will take flows north towards Road Culvert 15. Table 33 shows the peak flows generated by Phase 1 proposed conditions.

Table 33
Watershed V Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	.04
10-year	1.36
15-year	1.80
25-year	3.03
100-year	6.60

Watershed W

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC</u>
Phase 1	13.48	65	32

Watershed W is located in the sewage treatment area north of Spruce Creek Road. Runoff will flow south toward Detention Pond 3 through an 18-inch culvert restricted by a 12-inch restriction between Lots 14 and 15, Block 6, then southward towards Road Culvert 13, then to Road Culvert 17 then to Detention Pond 11. Table 34 shows the peak flows generated by Phase 1 proposed conditions.

Table 34
Watershed W Proposed Conditions Runoff
Phase 1

<u>Event</u>	<u>QPeak (cfs)</u>
2-year	.62
10-year	4.61
15-year	5.86
25-year	9.51
100-year	19.50

ROAD CULVERTS

Analysis was completed for culverts needed for roads within the plat. With the exception of Road Culverts 1 and 2, the design storm event for all culverts was the 15 year-24-hour storm per North Dakota stream crossing standards. For Road Culverts 1 and 2, the 25 year-24-hour storm event was used for design.

Table 35 shows a summary of Road Culverts proposed for use.

Table 35
Proposed Culverts
Phase 1

<u>CULVERT</u>	<u>SIZE</u>	<u>LENGTH</u>	<u>UPSTREAM INVERT</u>	<u>DOWNSTREAM OUTLET</u>	<u>TOP OF ROAD/DIKE</u>
1	18	103.5	1645.50	1644.90	1650
2	2-48	74	1647	1646.75	1652
3A	24	59	1659.50	1654.67	1669.23
3B	24	57	1660.00	1659.50	1669.23
4	30	62	1689.25	1689.00	1694
5	30	62	1689.75	1689.50	1694
6	18	60	1716.03	1716.03	1719.8
7	18	64	1709.67	1708.53	1713

8	15	44	1729.67	1729.50	1734
9	24	69	1728.17	1728.00	1733.3
10	2-18	58	1736.86/1736.90	1736.57/1736.56	1741
11	2-36	106	1737.81/1737.27	1736.82/1736.82	1742
12	18	62	1747.75	1747.50	1752
13	18	62	1731.90	1731.70	1735
14	18	59	1733.75	1732.00	1737
15	2-36	70	1721.52/1721.52	1721.10/1720.85	1728
16	24	62	1743.16	1742.92	1747
17	30	113	1731.60	1704.00	1735
18	18	50	1733.50	1733.00	1736
Ser Rd	18	36	1748.70	1748.50	N/A

Road Culvert 1

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
1 Existing	18	70	1645.50	1645.24	1650
1 Phase 1	18	103.5	1645.50	1644.90	1650

Road Culvert 1 is located at the intersection of Highway 1804 and Everest Drive, as shown on Sheets 2, 6A1, and 7. There is an existing 18-inch diameter RCP culvert which will be replaced with an 18-inch diameter RCP culvert. The watershed area: DP9, flowing to this culvert is 116.5 acres as shown on Sheets 2 and 7. The watershed was determined to have a CN number of 70 and a time of concentration of 81 minutes. The watershed which will flow to this culvert location will be the same for either culvert. No runoff from development in Summit Point will contribute to the runoff of this watershed. Table 36 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for the Existing Conditions and Phase 1.

The existing Highway 1804 will have to be modified to increase the elevation 1646 surface area. This will be accomplished by regrading the road ditch north of the Detention Pond Culvert (Road Culvert 1). The grading will

widen the ditch towards the backslope, and the sideslope of Highway 1804 will not be affected. See Sheet 15.

For Detention Pond 9 Culvert (Road Culvert 1), the existing 18" RCP culvert will be salvaged and new pipe added to increase its length to 103.5 feet. Inlet and outlet slopes will be 8 to 1.

Table 36
Road Culvert 1
Existing, Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Velocity (fps)
2-year				
Existing	8.30	4.99	1646.80	4.09
Phase 1	8.30	4.60	1646.61	4.54
10-year				
Existing	32.60	12.85	1648.72	7.27
Phase 1	32.60	12.43	1648.59	7.03
15-year				
Existing	39.30	14.21	1649.17	8.04
Phase 1	39.30	13.69	1649.06	7.75
25-year				
Existing	58.28	28.25*	1650.06	9.40
Phase 1	58.28	25.52**	1650.05	9.08
100-year				
Existing	108.12	104.06***	1650.25	9.63
Phase 1	108.12	103.26****	1650.25	9.31

*-11.64 cfs flow over Highway 1804. Velocity is .82 fps.

**-.9.48 cfs flow over Highway 1804. Velocity is .75 fps.

***-87.05 cfs flow over Highway 1804. Velocity is 1.63 fps.

****-86.80 cfs flow over Highway 1804. Velocity is 1.63 fps.

Road Culvert 2

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
2	2-48	74	1647.0	1646.75	1652

Road Culvert 2 is located just east of Road Culvert 1 along Everest Drive, as shown on Sheet 6B. Two 48-inch concrete culverts 74 feet long are proposed for installation. The watershed area flowing to these culverts consists of WS DP8 flowing through DP8 then to WSDP 7 flowing through DP7 then WS A

flowing through DP10 then to DP6 which these culverts are the outlet. Also flowing to these culverts is WS H flowing through RC9 to DP1 then through RC 6 which WS G flows to, then to RC 5 and RC 3B, which WS 5 flows to RC 5 and then to RC 4 which WS C flows to then to RC 3A which WS b flows to then to DP 6 and RC 2. From RC 3B which WS E flows to then to RC 3A which then flows to DP6 and RC 2. Table 37 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for the Phase 1 proposed conditions. These culverts will carry Summit Point flows to the four existing culverts under Highway 1804.

Table 37
Road Culvert 2
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Velocity (fps)
2-year	6.25	6.25	1647.70	3.21
10-year	69.85	69.85	1649.60	5.73
15-year	84.96	84.96	1649.92	6.02
25-year	113.21	113.21	1650.49	6.49
100-year	278.61	278.57*	1652.59	8.20

*-72.36 cfs of this flow is over the road and flows to Highway 1804 culverts. Velocity is 2.44 fps.

Road Culvert 3A

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
3A	24	59	1659.50	1654.67	1669.23

Road Culvert 3A is located east of Road Culvert 2 along the north side of Everest Drive as shown on Sheet 6B. A 24-inch cmp culvert, 59 feet long, is proposed for installation as well as a manhole and a Neenah R-4351-C beehive grate. The watershed areas flowing to this culvert include WS B, C, D, E, G, and H. The Road Culverts, which will transport these flows to Road Culvert 3A, include RC 3B, 4, 5, 6, 9 and Detention Pond 1. Overflow of the rock ditch dam will continue down the road ditch of Everest Drive to Road Culvert 2 where RC 3A also flows to. Erosion Protection will be provided to areas where water velocities are over 10 feet per second. Table 38 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 38
Road Culvert 3A
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	6.12	6.12	1660.58	3.54
10-year	24.04	24.04	1663.03	7.65
15-year	28.66	28.66	1664.09	9.12
25-year	38.85	38.85	1667.10	12.37
100-year	80.07	79.38*	1669.31	13.89

*-1.67 cfs of this outflow will go over the rock dam and then into DP 6.
Velocity overflow is .91 fps.

Road Culvert 3B

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
3B	24	57	1660.00	1659.50	1669.23

Road Culvert 3B is located east of Road Culvert 2 along the south side of Everest Drive as shown on Sheet 6B. A 24-inch culvert, 57 feet long, along with a manhole and beehive grate are proposed for installation. Watershed H goes to Road Culvert 9, to the drainage channel which is part of Detention Pond 1, to Watershed G, to Road Culvert 6 then to Watershed E, then to the inlet above Road Culvert 3B. The watershed areas flowing to this culvert include Watershed E, G, and H. Road Culvert 3B flows to Road Culvert 3A. Table 39 shows the performance of this culvert for the 2-year, 10-year, 15-year, and 100-year storm events for Phase 1.

Table 39
Road Culvert 3B
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	1.02	1.02	1660.41	2.18
10-year	2.90	2.90	1660.72	4.23
15-year	3.37	3.37	1660.78	4.35
25-year	4.94	4.94	1660.98	4.69
100-year	12.20	12.20	1661.74	5.60

Road Culvert 4

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
4	30	62	1689.25	1689.00	1694

Road Culvert 4 is located at the intersection of Everest Drive and Estancia Drive as shown on Sheet 6B. A 30-inch culvert, 62 feet long, is proposed for installation. The watershed areas flowing to this culvert include WS C, D, G, and H. Runoff to this culvert also travels through RC 9, DP 1, RC 6, and RC 5. Overflows over the top of the road will continue down the north road ditch of Everest Drive to RC 3A and DP 6. Table 40 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 40
Road Culvert 4
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	5.76	5.76	1690.36	4.02
10-year	22.93	22.56	1691.80	5.60
15-year	26.78	26.18	1692.11	5.84
25-year	35.69	34.12	1692.93	6.95
100-year	66.68	63.07*	1694.12	9.15

*-18.13 cfs of this flow is over the road. Velocity is 1.09 fps.

Road Culvert 5

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
5	30	62	1689.75	1689.50	1694

Road Culvert 5 is located at the intersection of Everest Drive and Estancia Drive as shown on Sheet 6B. A 30-inch culvert, 62 feet long, is proposed for installation. The watershed areas flowing to this culvert include WS D, G, and H. Runoff also flows through RC 9, DP 1, and RC 6. Flow over the road will go to Road Culvert 4 then to Road Culvert 3A and then to DP 6. This flow was included in the models. Table 41 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 41
Road Culvert 5
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	5.59	5.53	1690.84	3.98
10-year	23.63	22.32	1692.28	5.59
15-year	28.20	26.08	1692.60	5.84
25-year	40.26	34.79	1693.49	7.08
100-year	65.69	64.88*	1694.15	8.52

*-23.06 cfs of this flow is over the road. Velocity is 1.26 fps.

Road Culvert 6

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
6	18	60	1716.03	1716.03	1719.80

Road Culvert 6 is located west of the intersection of Estancia Drive and Olympus Drive as shown on Sheet 6B. An 18-inch culvert, 60 feet long, is proposed for installation. The watershed areas flowing to this culvert include WS G and H. Flows also travel through RC 9 and DP 1. This culvert will serve as an equalizer culvert and reroute a portion of the runoff coming down the north road ditch along Estancia Drive to the south road ditch along Estancia Drive. This was done as the watersheds contributing to the road ditch south of Estancia are small and will be able to easily handle these flows. Table 42 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 42
Road Culvert 6
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	3.86	.00	1715.83	0.0
10-year	15.82	1.33	1716.78	2.19
15-year	18.97	2.06	1716.97	2.54
25-year	27.43	4.26	1717.42	3.24
100-year	47.91	7.09	1718.10	4.01

Road Culvert 7

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
7	18	64	1709.67	1708.53	1713.0

Road Culvert 7 is located at the intersection of Olympus Drive and Blue Spruce Road as shown on Sheet 6C. An 18-inch culvert, 64 feet long, is proposed for installation. The watershed area flowing to this culvert includes WS J. Table 43 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 43
Road Culvert 7
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	2.56	2.46	1710.40	2.90
10-year	8.63	7.53	1711.20	4.26
15-year	10.19	8.44	1711.40	4.76
25-year	14.37	10.37	1711.90	5.86
100-year	25.22	15.15*	1713.03	7.78

*-1.40 cfs of this flow is over the road. Velocity is .58 fps.

Road Culvert 8

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
8	15	44	1729.67	1729.50	1734.0

Road Culvert 8 is located on Blue Spruce Road just west of the intersection of Blue Spruce Road and White Spruce Road as shown on Sheet 6C. An existing 15-inch culvert, 44 feet long, is located at this point. The watershed area flowing to this culvert includes WS K and KA. Watershed K drains into DP 2 before combining with flows from WS KA to flow through this culvert. Table 44 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 44
Road Culvert 8
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	.52	.52	1730.19	1.60
10-year	1.35	1.35	1730.51	2.16
15-year	1.55	1.55	1730.58	2.25
25-year	2.13	2.13	1730.77	2.48
100-year	3.71	3.71	1731.50	3.02

Road Culvert 9

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
9	24	69	1728.17	1728.00	1733.3

This culvert is located on Mickelson Drive as shown on Sheet 6C. A 24-inch culvert, 69 feet long, is proposed for installation. The watershed area flowing to this culvert includes WS H. Table 45 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 45
Road Culvert 9
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	1.70	1.36	1728.76	2.63
10-year	6.60	4.87	1729.34	3.68
15-year	7.92	5.71	1729.45	3.84
25-year	11.55	7.90	1729.72	4.18
100-year	20.97	12.69	1730.28	4.77

Road Culvert 10

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
10	2-18	58	1736.86	1736.57	1741
			1736.90	1736.56	

Road Culvert 10 is located at the intersection of Blue Spruce Road and Spruce Creek Road as shown on Sheet 6D. Two 18-inch culverts, 58 feet long, are proposed for installation. The watershed areas flowing to this culvert include WS L and U as well as RC 16. Table 46 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 46
Road Culvert 10
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	3.53	3.53	1737.54	3.38/3.48
10-year	13.63	13.51	1738.42	4.57/4.70
15-year	16.16	15.85	1738.64	4.75/4.88
25-year	22.56	21.33	1739.34	6.02/6.04
100-year	36.92	29.76	1740.69	8.45/8.39

Road Culvert 11

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
11	2-36	106	1737.81	1736.82	1742
			1737.27	1736.82	

Road Culvert 11 is located at the intersection of Blue Spruce Road and Spruce Creek Road as shown on Sheet 6D. Two 36-inch culverts, 106 feet long, are proposed for installation. The watershed area flowing to this culvert is WS M. Table 47 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 47
Road Culvert 11
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	10.55	10.55	1738.44	2.70/4.43
10-year	44.42	44.37	1739.59	4.54/5.77
15-year	54.00	53.95	1739.85	4.87/6.00
25-year	81.10	80.96	1740.63	5.71/6.57
100-year	153.29	153.29*	1742.21	8.21/8.67

*-34.00 cfs of this flow is over the road to the existing stock pond.
Velocity is 1.50 fps.

Road Culvert 12

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
12	18	62	1747.75	1747.50	1752.0

Road Culvert 12 is located at the intersection of Cascata Terrace and Spruce Creek Road as shown on Sheet 6D. An 18-inch culvert, 62 feet long, is proposed for installation. The watershed area flowing to this culvert is WS P. Table 48 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 48
Road Culvert 12
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	1.44	1.41	1748.37	3.03
10-year	3.99	3.85	1748.85	3.84
15-year	4.64	4.46	1748.95	3.98
25-year	6.57	6.03	1749.22	4.31
100-year	10.75	8.24	1749.78	4.59

Road Culvert 13

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
13	18	62	1731.90	1731.70	1735.0

Road Culvert 13 is located on Spruce Creek Road as shown on Sheet 6E. An 18-inch culvert, 62 feet long, is proposed for installation. The watershed areas flowing to this culvert include WS R and W. Detention pond DP 3 also drains to this culvert. Table 49 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 49
Road Culvert 13
Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	1.63	1.62	1732.59	3.00
10-year	6.62	6.42	1733.49	4.25
15-year	7.34	7.14	1733.64	4.38
25-year	9.61	8.93	1734.12	5.05
100-year	14.95	12.24	1734.92	6.92

Road Culvert 14

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>	<u>Top of Road/Dike</u>
14	18	59	1733.75	1732.00	1737.0

Road Culvert 14 is located on Spruce Creek Road as shown on Sheet 6E. An 18-inch culvert, 59 feet long, is proposed for installation. The watershed areas flowing to this culvert include WS P and Q. Table 50 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 50
Road Culvert 14
Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	1.15	1.14	1734.23	2.35
10-year	4.58	4.49	1734.78	3.45
15-year	5.51	5.40	1734.91	3.65
25-year	8.15	7.44	1735.26	4.20
100-year	14.61	11.00	1736.17	6.21

Road Culvert 15

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>	<u>Top of Road/Dike</u>
15	36	70	1721.52	1721.10	1728
	36	70	1721.52	1720.85	

Road Culvert 15 is located on White Spruce Road as shown on Sheet 6D. Two 36-inch culverts, 70 feet long, currently exist at this location. The

watershed areas flowing to this culvert include WS KB, L, M, N, O, U, and V. Road Culverts 10, 11, 16, and 18 as well as Detention Ponds 4 and 5 also drain to this culvert. Table 51 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 51
Road Culvert 15
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	7.27	7.27	1722.44	2.71/3.19
10-year	37.81	37.75	1723.74	4.41/4.95
15-year	41.70	41.64	1723.88	4.54/5.07
25-year	80.53	76.55	1725.23	5.36/5.83
100-year	158.32	156.30*	1728.19	8.82/9.09

*-29.68 cfs of this flow overtops the road. Velocity is 1.40 fps.

Road Culvert 16

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
16	24	62	1743.16	1742.92	1747

Road Culvert 16 is located near the intersection of Estancia Drive and Spruce Creek Road on Sheet 6D. A 24-inch culvert, 62 feet long, is proposed for installation. The watershed area flowing to this culvert includes WS U. Table 52 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 52
Road Culvert 16
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	3.18	3.16	1744.03	3.54
10-year	12.14	10.56	1744.94	4.74
15-year	14.48	12.21	1745.12	4.92
25-year	20.78	15.70	1745.55	5.27
100-year	37.43	22.33	1746.53	7.11

Road Culvert 17

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Road/Dike
17	30	113	1731.60	1704.00	1735

Road Culvert 17 is located along a private road at the southern portion of the subdivision. This culvert carries runoff flow from Watersheds P, Q, R, S, and W. Flow also travels through Road Culverts 12, 13, and 14, in addition to Detention Pond 3 before reaching Road Culvert 17, which outlets into Detention Pond 11 that drains to Burnt Creek. Table 53 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25- year, and 100-year storm events for Phase 1.

Table 53
Road Culvert 17
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	3.16	3.15	1732.29	2.83
10-year	11.38	11.38	1733.00	4.02
15-year	13.22	13.20	1733.13	4.20
25-year	17.53	17.45	1733.41	4.58
100-year	26.00	25.77	1734.02	5.29

Road Culvert 18

Culvert	Size(in)	Length(ft)	Invert	Outlet	Top of Ditch Plug
18	18	50	1733.50	1733.00	1735.0

Road Culvert 18 is located on Blue Spruce Road just east of the intersection of White Spruce Road and Blue Spruce Road as shown on Sheet 6C. An 18-inch culvert, 50 feet long, is proposed for installation along with a ditch plug with a top elevation of 1735.00. The watershed area flowing to this culvert includes WS KB. Table 54 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 54
Road Culvert 18
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	.90	.90	1734.01	2.44
10-year	2.19	1.93	1734.13	2.71
15-year	2.50	2.17	1734.18	2.80
25-year	3.32	2.81	1734.28	3.01
100-year	5.37	4.33	1734.52	4.77

DETENTION PONDS

Detention Pond 1

Culvert	Size(in)	Length(ft)	Invert	Outlet
1	18	60	1723	1722.5

Elevation	Square Feet
1723	120
1724	1,522
1725	3,780
1726	6,337
1727	9,703
1728	18,047

Detention Pond 1 is located near Mickelson Drive north of Estancia Drive as shown on Sheets 6C. Watershed H and Road Culvert 9 flow into this detention pond. Flows out of this pond travel along the north road ditch of Estancia Drive to Road Culverts 3A, 4, and 5. A portion of the outflow also travels through Road Culvert 6 along the south road ditch of Estancia Drive to Road Culverts 3A and 3B. An 18-inch culvert, 60 feet long, is proposed for installation. Table 55 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 55
Detention Pond 1
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	1.36	1.32	1723.69	2.44
10-year	4.87	4.61	1724.42	3.42
15-year	5.71	5.33	1724.59	3.54
25-year	7.90	6.61	1725.21	3.74
100-year	12.69	9.51	1726.50	5.38

Channel

The channel connected to this Detention Pond is 10 feet wide with 3 to 1 side slopes as shown Sheets 6C. The beginning channel elevation is 1726 with an ending elevation of 1723. The channel is 400 feet long and 5 feet deep with a slope of .75 percent. An earthen embankment will be constructed at the downstream end of this channel.

Detention Pond 2

Culvert	Size(in)	Length(ft)	Invert	Outlet
1	5	50	1731.0	1731.0

Elevation	Square Feet
1731	6,996
1732	12,915
1733	24,818
1734	40,564
1735	47,017
1736	56,349

Detention Pond 2 is located between Estancia Drive and Blue Spruce Road as shown on Sheet 6C. Runoff from Watershed K flows to this pond and then to Road Culvert 8. Flows out of this pond travel to Blue Spruce Road to Road Culvert 8. A 5-inch culvert, 50 feet long, is proposed for installation. Table 56 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 56
Detention Pond 2
Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	1.78	0.28	1731.71	2.05
10-year	8.16	0.62	1732.86	4.56
15-year	9.96	0.65	1733.12	4.74
25-year	15.00	0.75	1733.70	5.49
100-year	28.23	0.96	1734.88	7.06

Channel

The channel connected to this Detention Pond is 10 feet wide with 3 to 1 side slopes as shown Sheet 6C. The beginning elevation is 1735 with an ending elevation of 1731. The channel is 672 feet long, 5 feet deep with a slope of .74 percent.

Detention Pond 3

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
1	12	263	1732.79	1732.0

<u>Elevation</u>	<u>Square Feet</u>
1732.79	0
1734	1,743
1735	10,098
1736	38,937
1737	109,814

Detention Pond 3 is located north of Spruce Creek Road as shown on Sheet 6E. Runoff from Watershed W flows to this pond and then to Road Culverts 13 and 17. A 12-inch restriction on a 18-inch culvert, 263 feet long, is proposed for installation. Table 57 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 57
Detention Pond 3
Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	.62	.60	1733.24	2.58
10-year	4.61	2.97	1734.42	3.79
15-year	5.86	3.23	1734.68	4.11
25-year	9.51	3.72	1735.22	4.73
100-year	19.50	4.29	1735.96	5.46

Detention Pond 4

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
1	15	430	1732.50	1730.38

<u>Elevation</u>	<u>Square Feet</u>
1732.50	0
1736.00	236
1737.00	10,384

Detention Pond 4 is located north of Spruce Creek Road as shown on Sheet 6E. Runoff from Watershed V flows to this pond and then to Road Culvert 15. A 15-inch culvert, 430 feet long, is proposed for installation. Table 58 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 58
Detention Pond 4
Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	0.04	0.04	1732.60	1.16
10-year	1.36	1.36	1733.11	3.33
15-year	1.80	1.80	1733.21	3.58
25-year	3.03	3.02	1733.47	4.05
100-year	6.60	5.95	1735.30	4.85

Detention Pond 5

<u>Control Structure</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
Culverts	2-18	70	1736.49	1733.83
			1736.51	1733.86
Culverts	2-12	5	1736.49	1736.49
Weir		20	1737.88	1737.88
Emergency Spillway		12	1740.00	1740.00

<u>Elevation</u>	<u>Square Feet</u>
1736.49	10,890
1737	22,266
1738	27,167
1739	31,977
1740	42,563
1741	71,494
1742	85,637

Detention Pond 5 is an existing pond located southwest of the intersection of Blue Spruce Road and Spruce Creek Road as shown on Sheet 6D. Watersheds L, M, O, and U provide runoff to this pond. Runoff uses Road Culverts 10, 11, and 16 to get to the pond. Runoff from the pond flows to Road Culvert 15. Two 18-inch culverts, 70 feet long, are proposed for installation. A 20-foot long weir with two 12 inch culverts and an emergency spillway at elevation 1740 will also be used. Table 59 shows the performance of this culvert for the 2-year, 10-year, 15-year, 25-year, and 100-year storm events for Phase 1.

Table 59
Detention Pond 5
Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel Both 18 in (fps)</u>
2-year	11.35	7.06	1737.87	4.12
10-year	46.64	37.01	1739.12	7.33
15-year	56.56	40.81	1739.73	7.46
25-year	84.59	70.58*	1740.35	7.75
100-year	159.81	155.71**	1740.90	10.36

*- 8.53 cfs of this flow is over the emergency spillway. Velocity is 1.89 fps.

** - 39.78 cfs of this flow is over the emergency spillway. Velocity is 3.00 fps.

Channel

The channel connected to this Detention Pond is 10 feet wide with 3 to 1 side slopes as shown Sheet 6D. The beginning elevation is 1737 with an ending elevation of 1736 with a slope of .51 percent. The channel is 195 feet long and is 4 feet deep.

Detention Pond 6

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
2	48	72	1747.00	1746.75

<u>Elevation</u>	<u>Square Feet</u>
1647	0
1648	168
1649	689
1650	1,509
1651	2,837
1652	5,180
1653	8,083
1654	11,195
1655	15,079

Detention Pond 6 is connected to Road Culvert 2 as shown on Sheet 6B. This pond handles all flows from Detention Ponds 7 and 8. Watersheds WSA, WSDP7, and WSDP8 combine to provide runoff to this pond as well as flows from Road Culvert 3A. Watershed WSDP8 flows through existing Detention Pond 8 before flowing to existing Detention Pond 7. Watershed WSDP7 combines with flows from Detention Pond 8 and flows to Detention Pond 7. Outlet flows from Detention Pond 7 combine with runoff from WS1A and flows to Detention Pond 10. Flows from Detention Pond 10 combines with flows from Road Culvert 3A to flow into Detention Pond 6 at Road Culvert 2 or POA #1.

Table 60 shows the peak flow rates for the various design storm events for these watersheds.

Table 60
Watersheds WSDP7, WSDP8, DP10, RC3A Runoff
Phase 1

Event	WSDP7 QPeak (cfs)	WSDP8 Qpeak (cfs)	DP10 Qpeak (cfs)	RC3A Qpeak (cfs)
2-year	7.31	27.02	5.05	6.12
10-year	28.80	102.29	67.16	24.04
15-year	34.92	123.55	81.91	28.66
25-year	52.24	183.76	109.21	38.85
100-year	98.36	344.29	270.97	79.38

Table 61 shows the peak flow rates for the various design storm events for these Detention Pond 6.

Table 61
Detention Pond 6
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	6.26	6.26	1647.70	3.22
10-year	69.85	69.85	1649.60	5.74
15-year	84.96	84.96	1649.92	6.03
25-year	113.21	113.21	1650.49	6.50
100-year	278.61	278.57*	1652.59	8.22

*-72.03 cfs of this flow will overtop weir. Velocity is 2.44 fps.
Note: This pond outlets to a plunge pool for the culverts. The Phase 1 100-year flow velocity will be reduced from 8.22 fps to 3.43 fps.

Detention Pond 7

Culvert	Size(in)	Length(ft)	Invert	Outlet
1	36	60	1668.0	1667.0*

*- The existing 48-inch diameter culvert will be constricted to a 36-inch diameter culvert. The top of the embankment or weir will be increased to elevation 1686 and will be 166 feet in length.

<u>Weir</u>	<u>Length(ft)</u>	<u>Elevation</u>
1	166	1686

<u>Elevation</u>	<u>Square Feet</u>
1668	6,471
1670	12,370
1672	18,900
1674	34,003
1676	62,718
1678	94,776
1680	116,796
1682	148,106
1684	185,956
1686	221,330
1688	275,000

Detention Pond 7 is an existing pond, as shown on Sheet 2. Presently Watershed WSDP7 flows into this pond along with outlet flows from Detention Pond 8, which Watershed WSDP8 flows into. Outlet flows from this pond combine with WS DP9, RC 1, DP7, and WS #1PRE and flow to the Highway 1804 Culverts 1.

Under proposed development conditions, flows from Detention Pond 8 will still flow to Detention 7. Instead of flows from Detention Pond 7 going directly to Highway 1804 culverts, they will flow to Detention Pond 10 and then Detention Pond 6 to RC 2, combining with WSDP9, RC 1, WS A, WS F, and RC3A before reaching these culverts.

Watershed WSDP7 information is shown in Table 62.

Watershed WSDP7

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC(min)</u>
Phase 1	173.38	69	147

Table 62
Watershed WSDP7
Phase 1

<u>Event</u>	WSDP7 QPeak (cfs)
2-year	7.31
10-year	28.80
15-year	34.92
25-year	52.24
100-year	98.36

Table 63 shows the peak flows generated for Phase 1 design storms.

Table 63
Detention Pond 7
Phase 1

<u>Event</u>	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	7.31	7.19	1669.01	3.42
10-year	72.70	67.43	1673.43	9.54
15-year	96.79	82.09	1675.32	11.61
25-year	168.19	108.97	1679.75	15.42
100-year	359.85	270.63*	1686.37	19.78

*- 130.83 cfs of this flow is over the road and flows towards Detention Pond 10. Velocity is 1.98 fps. Erosion protection will be provided downstream of the culvert.

Detention Pond 8

<u>Weir</u>	<u>Length(ft)</u>	<u>Elevation</u>
1	30	1752

<u>Elevation</u>	<u>Square Feet</u>
1750	195,570
1752	344,290
1754	438,466

Detention Pond 8 is an existing pond, as shown on Sheet 2. Under existing conditions, Watershed WSDP8 flows into this pond. Outlet flows from this pond go to Detention Pond 7 and to Highway 1804 Culvert 1.

With proposed development conditions, flows from Detention Pond 8 flow to Detention Pond 7 and then to Detention Ponds 6 and 10 before reaching Highway 1804 Culvert 1.

Table 64 shows the watershed information.

Watershed WSDP8

Plan	Acres	CN	TOC(min)
Phase 1	757.933	69	196

Table 64
Watershed WSDP8
Phase 1

Event	WSDP8 QPeak (cfs)
2-year	27.02
10-year	102.29
15-year	123.55
25-year	183.76
100-year	344.29

Table 65 shows the peak flows generated for both Phase 1 design storms.

Table 65
Detention Pond 8
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	27.02	5.23	1752.14	1.22
10-year	102.29	61.51	1752.71	2.73
15-year	123.55	81.98	1752.85	2.99
25-year	183.76	142.75	1753.22	3.55
100-year	344.29	304.62	1753.96	4.46

Detention Pond 9

Culvert	Size(in)	Length(ft)	Invert	Outlet
1	18	103.5	1645.50	1644.90

Elevation	Square Feet
1645.50	8,807
1646	17,894
1648	43,206
1650	75,476
1652	114,958

Detention Pond 9 is shown on Sheet 2. Watershed WSDP9 flows into this pond to Road Culvert 1. Outlet flows from Road Culvert 1 go to Highway 1804 Culvert 1. Table 66 shows the peak flows generated that will be the same for Phase 1 design storms.

The existing Highway 1804 will have to be modified to increase the elevation 1646 surface area. This will be accomplished by regrading the road ditch north of the Detention Pond Culvert (Road Culvert 1). The grading will widen the ditch towards the backslope, and the sideslope of Highway 1804 will not be affected. See Sheet 15.

For Detention Pond 9 Culvert (Road Culvert 1), the existing 18” RCP culvert will be salvaged and new pipe added to increase its length to 103.5 feet. Inlet and outlet slopes will be 8 to 1.

Table 66
Detention Pond 9
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	8.30	4.60	1646.61	4.54
10-year	32.60	12.43	1648.59	7.03
15-year	39.30	13.69	1649.06	7.75
25-year	58.28	25.52*	1650.05	9.08
100-year	108.12	103.26**	1650.25	9.31

*-9.48 cfs of this flow will overtop weir and flow west. Velocity is .75 fps.

** -86.80 cfs of this flow will overtop the weir and flow west. Velocity is 1.63 fps.

Detention Pond 10

Culvert	Size(in)	Length(ft)	Invert	Outlet
1	10	19.35	1655.00	1655.00
1	36	44.65	1655.00	1654.50*

*- Outlet of this pond will consist of a 54”cmp riser structure with a 10 inch inlet pipe at elevation 1655, riser height at elevation 1661.45 with a 36 inch outlet pipe and a 120 foot weir at elevation 1665. Because velocities from this pond will exceed 10 fps, riprap will be installed to control erosion.

Elevation	Square Feet
1655	6,090
1656	7,805
1657	9,593
1658	11,450
1659	13,376
1660	17,491
1661	19,718
1662	22,109
1663	24,668
1664	27,394
1665	30,288
1667	35,656

Detention Pond 10 is shown on Sheet 6A1. Watersheds WS DP8, DP7, and A flow into this pond as well as Detention Ponds DP8 and DP7. Flows from this pond flow to Detention Pond DP6 and then to DP6 plunge pool before flowing to Highway 1804 Culverts 1 Table 67 shows the peak flows generated for Phase 1 design storms.

Table 67
Detention Pond 10
Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	10”CMP Vel (fps)	36”CMP Vel (fps)
2-year	7.29	5.05	1661.51	5.82	3.53
10-year	67.60	67.16	1663.71	7.35	9.38
15-year	82.29	81.91	1664.23	7.37	11.30
25-year	109.22	109.21*	1665.04	7.40	13.10
100-year	271.08	270.97**	1665.55	7.52	13.49

*-5.38 cfs of this flow will overtop weir and flow to DP6. Velocity is .67 fps.

**-167.14 cfs of this flow will overtop weir and flow to DP6. Velocity is 2.42 fps.

Detention Pond 11

Culvert	Size(in)	Length(ft)	Invert	Outlet
1	30	85	1647.68	1646.93
2	30	85	1647.30	1646.55

Elevation	Square Feet
1647.30	0
1650.00	1,428
1652.00	2,708
1654.00	4,420
1656.00	7,178-Top of Road
1658.00	12,708

Detention Pond 11 is an existing detention area as shown on Sheets 2 and 7. Watersheds K, KA, KB, O, U, L, M, N, V, WSC3B, Road Culverts 8, 10, 11, 15, 16, 18 and Detention Ponds 2, 4, 5 flow into this detention area. Outlet flows from this pond go to Highway 1804 Culverts 3. Table 68 shows the peak flows generated for Existing and Phase 1 design storms.

Table 68

Detention Pond 11				
<u>Existing Condition</u>				
<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	8.38	8.38	1648.51	C1-2.87 C2-3.52
10-year	41.60	41.60	1650.17	C1-4.84 C2-5.02
15-year	45.84	45.84	1650.45	C1-4.98 C2-5.03
25-year	82.89	81.34	1653.95	C1-8.12 C2-8.46
100-year	168.96	168.61*	1656.99	C1-10.51 C2-10.77

*-64.15 cfs of this flow overtops the road and flows towards Highway 1804 Culvert 3. Velocity is 2.61 fps.

<u>Phase 1</u>				
<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	8.38	8.38	1648.51	C1-2.87 C2-3.52
10-year	42.90	42.89	1650.25	C1-4.89 C2-5.03
15-year	49.26	49.22	1650.83	C1-5.03 C2-5.10
25-year	82.98	81.49	1653.96	C1-8.13 C2-8.47
100-year	169.11	168.77*	1656.99	C1-10.51 C2-10.77

*-64.30 cfs of this flow overtops the road and flows towards Highway 1804 Culvert 3. Velocity is 2.61 fps.

Detention Pond 12

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
1	18	50	1644.01	1643.74

<u>Elevation</u>	<u>Square Feet</u>
1644.01	0
1646.00	27,550-Top of Road

Detention Pond 12 is an existing detention area as shown on Sheets 2 and 7. Watershed WSC3C flows into this detention area. Outlet flows from this pond go to Highway 1804 Culverts 3. Table 69 shows the peak flows generated for Existing and Phase 1 design storms.

Table 69
WSC3C
Existing Conditions, Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>
2-year	3.74
10-year	10.07
15-year	11.63
25-year	15.81
100-year	26.09

Table 69A
Detention Pond 12
Existing Conditions, Phase 1

Event	Qp In (cfs)	Qp Out (cfs)	Water Elev	Vel (fps)
2-year	3.74	1.28	1644.57	3.15
10-year	10.07	3.43	1645.00	3.93
15-year	11.63	3.91	1645.08	4.05
25-year	15.81	5.14	1645.29	4.31
100-year	26.09	7.61	1645.72	4.73

ANALYSIS SUMMARY

The pre- and post-development runoff amounts were compared. For the pre-development condition, runoff for the 2-year, 10-year, 15-year, 25 year, and 100-year peak runoff amounts were determined for Watershed 1 flowing through Road Culvert 2 (POA 1), Watershed 2 flowing through Road Culvert 8 (POA 2), Watershed 3 flowing through Road Culvert 15 (POA 3), and Watershed 4 (POA 4), Watershed 5 (POA 5) flowing to Highway 1804 Culvert 3, Watershed 6 (POA 6) flowing to Highway 1804 Culvert 2, Watershed 7 (POA 7) flowing to Highway 1804 Culvert 1.

Table 70 shows the peak runoff amounts for the pre- and post-development conditions.

Table 70
Pre- and Post-Development Peak Runoff Amounts

Existing/Pre-Development WS/POA	Q PEAKS (cfs)				
	2 YR	10 YR	15 YR	25YR	100 YR
1	7.67	73.02	95.69	149.04	311.06
2	.89	1.81	2.02	2.57	6.77
3	8.09	50.70	62.58	91.52	188.14
4	8.78	35.36	42.30	61.40	110.46
5	4.43	20.56	25.06	37.67	70.81
6	3.01	13.97	16.99	25.37	47.15
7(TOTAL)	8.30	32.60	39.30	58.28	108.12
7(RC9 ONLY)	4.99	12.85	14.21	16.61*	17.01**

*-Total flow is 58.28 cfs of which 11.64 cfs flows over Highway 1804 and flows west. Velocity is .82 fps.

** -Total flow is 108.12 cfs of which 87.05 cfs flows over Highway 1804 and flows west. Velocity is 1.63 fps.

Phase 1/Post-Development

POA	Q PEAKS (cfs)				
	2-YR	10-YR	15-YR	25-YR	100-YR
1	6.26	69.85	84.96	113.21	278.57
2	.52	1.35	1.55	2.13	3.71
3	7.27	37.75	41.64	76.55	156.30
4(SEE BELOW)	8.02	33.78	40.29	58.00	99.42
5(SEE BELOW)	2.87	8.45	9.42	11.51	15.48
6	1.48	8.69	10.80	16.69	32.32
7(TOTAL)	8.30	32.60	39.30	58.28	108.12
7(RC9 ONLY)	4.60	12.43	13.69	16.04*	16.46**

POA 4- Total of Watershed T runoff and flows from Road Culvert 17.

POA 5- Runoff amounts are from the beginning of Reach 8 in the model.

*-Total flow is 58.28 cfs of which 9.48 cfs flows over Highway 1804 and flows west.

** -Total flow is 108.12 cfs of which 86.80 cfs flows over Highway 1804 and flows west.

APPROACH CULVERTS

Since the proposed Summit Point 1st Subdivision will have approaches constructed for each lot located within the subdivision, culvert sizes were calculated using a 25-year, 24-hour storm event. It was assumed that the minimum culvert size would be a CMP culvert 18 inches in diameter with a minimum 1 foot of cover. Approach culverts were determined for only the Summit Point 1st Subdivision (Phase 1). Table 71 shows the minimum size of each lot approach culvert.

Table 71
Approach Culverts

Lot	Block	Culvert Size(in)	Lot	Block	Culvert Size(in)
1	1	18	1	6	18
2	1	18 Estancia	2	6	18
2	1	30 Everest	3	6	N/A
			4	6	18
1	2	24 Estancia	5	6	18
1	2	24 Everest	6	6	18
2	2	24	7	6	18
3	2	24	8	6	18
4	2	24	AC RD	6	18
5	2	18	9	6	18
6	2	18	10	6	18

7	2	18	11	6	18
8	2	18	12	6	18
9	2	18	13	6	18
10	2	18	14	6	18
11	2	18 Olympus	15	6	18
11	2	18 Estancia	16	6	18
12	2	18	17	6	18
			18	6	18
1	3	30 Estancia	19	6	18
1	3	30 Everest	20	6	18
2	3	30	21	6	18
3	3	30			
4	3	30	1	7	18
5	3	30	2	7	18
6	3	30	3	7	18
7	3	30	4	7	18
8	3	30	5	7	18
9	3	18	6	7	18 Spruce Creek
10	3	18 Estancia	6	7	18 Cascata
10	3	18 Mickelson			
			1	8	18 Spruce Creek
1	4	24 Mickelson	1	8	18 Cascata
1	4	24 Estancia	2	8	18
			3	8	18
1	5	18	4	8	18
2	5	18	5	8	18
3	5	18	6	8	18
4	5	18	7	8	18
5	5	18 Olympus	8	8	18
5	5	18 Estancia	9	8	18
6	5	18 Olympus	10	8	18
6	5	18 Blue Spruce	11	8	18
7	5	18	12	8	18
8	5	18	13	8	18
9	5	18	14	8	18
10	5	18	15	8	18
11	5	18	16	8	18
12	5	18			
13	5	18			
14	5	18			
15	5	18			
16	5	18			
17	5	18			
18	5	18 Blue Spruce			
18	5	24 Spruce Creek			

HIGHWAY 1804 CULVERTS

Highway 1804 culverts were also analyzed to see the affects that the proposed Summit Point 1st Subdivision Phase 1 will have on the operation of the existing culverts. The locations of the existing Highway 1804 culverts are shown on Sheet 2. Sheet 2 shows existing conditions while Sheet 7 shows Phase 1 conditions.

Highway 1804 Culverts 1

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
1	48	70	1642.96	1643.06
2	48	70	1642.84	1642.94
3	48	70	1642.73	1642.89
4	48	70	1642.69	1642.67

<u>Elevation</u>	<u>Square Feet</u>
1642.67	0
1645.00	3,329
1646.00	8,858
1647.00	14,500
1648.00	25,000-Top of Road

The Highway 1804 Culverts 1 are located just south of the existing driveway, as shown on Sheet 2. Under Existing Conditions, flows from Road Culvert 1, Detention Ponds 7, 8, and 9 as well as WS DP7, WS DP8, and WS DP9 make up the watershed contributing to these four culverts.

Under Proposed Conditions, flows from Detention Pond 9 and Road Culvert 1 flow to Highway 1804 culverts. WSDP 8 flows to DP 8 which combine with flows from WSDP 7 to flow to DP 7 then combine with flows from WS A to flow to DP 10 to combine with flows from Road Culvert 3A to flow DP 6 and then Road Culvert 1 which then flows to Highway 1804 Culverts 1. Watershed F also contributes flow coming to the Highway 1804 Culverts 1.

Table 72 shows the peak flows generated for both the Existing Condition, Phase 1 Developed Condition design storms.

Table 72
Highway 1804 Culverts 1

<u>Existing Condition</u>				
<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	12.58	12.58	1643.65	C1-2.06 C2-2.32 C3-2.54 C4-2.73
10-year	83.37	83.36	1644.95	C1-4.19 C2-4.34 C3-4.47 C4-4.59
15-year	108.11	108.10	1645.27	C1-4.57 C2-4.70 C3-4.82 C4-4.94
25-year	164.46	164.45	1645.91	C1-5.24 C2-5.36 C3-5.46 C4-5.57
100-year	327.54	325.67	1647.65	C1-6.68 C2-6.76 C3-6.83 C4-6.91
<u>Phase 1 Developed Condition</u>				
<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	8.41	8.41	1643.50	C1-1.72 C2-1.99 C3-2.24 C4-2.44
10-year	78.96	78.95	1644.89	C1-4.12 C2-4.26 C3-4.39 C4-4.52
15-year	95.92	95.92	1645.11	C1-4.40 C2-4.53 C3-4.65 C4-4.77
25-year	127.51	127.51	1645.50	C1-4.83

					C2-4.95
					C3-5.06
					C4-5.17
100-year	294.66	293.64	1647.27		C1-6.41
					C2-6.49
					C3-6.57
					C4-6.66

Highway 1804 Culverts 2

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
1	24	90	1643.83	1641.30

<u>Elevation</u>	<u>Square Feet</u>
1643.83	0
1646.00	18,469
1648.00	40,945-Top of Road

The Highway 1804 Culverts 2 is located just south of Highway 1804 Culverts 1, as shown on Sheet 7. Under existing conditions Watershed HWY 1804 C2 (WSEXC2 MODEL) is the contributing watershed to this culvert as shown on Sheet 2. Under proposed conditions WSEXC2 and Highway 1804 right of way make up this watershed flowing to this culvert. Table 73 shows watershed information.

Table 73
Watershed WS HWY 1804 C2
Existing, Phase 1

Watershed WS HWY 1804 C2 (WSEXC2 MODEL)

<u>Plan</u>	<u>Acres</u>	<u>CN</u>	<u>TOC(min)</u>
Existing	24.71	71	23
Phase 1	19.57	70	29

Table 74 shows the peak flows generated for both the Existing Condition and Phase 1 Developed Condition design storms.

Table 74
Highway 1804 Culvert 2

Existing Condition

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	4.81	3.65	1644.64	3.06
10-year	18.66	12.13	1645.48	4.37
15-year	22.33	13.92	1645.66	4.61
25-year	32.44	17.46	1646.16	5.56
100-year	58.39	23.53	1647.25	7.49

Phase 1

<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	2.74	2.31	1644.46	2.71
10-year	11.64	8.62	1645.15	3.91
15-year	14.07	10.19	1645.30	4.12
25-year	20.78	13.99	1645.67	4.62
100-year	38.24	20.07	1646.59	6.39

Highway 1804 Culverts 3

<u>Culvert</u>	<u>Size(in)</u>	<u>Length(ft)</u>	<u>Invert</u>	<u>Outlet</u>
1	36	46	1642.97	1642.27
2	36	46	1643.00	1642.30

<u>Elevation</u>	<u>Square Feet</u>
1642.97	0
1646.00	23,635
1648.00	40,484
1650.00	100,000-Top of Road

Highway 1804 Culverts 3 are located just south of Highway 1804 Culverts 2 at the entrance of Blue Spruce Road, as shown on Sheets 2 and 7. Flows contributing to these culverts are from Road Culvert 8 and 15, as well as runoff from Watersheds WS HWY 1804 C3A, WS HWY 1804 C3B, and WS HWY 1804 C3C. Flows also travel through Detention Ponds 11 and 12 before reaching these culverts. Table 75 shows the area, CN number, and time of concentration for the Existing Condition and Phase 1 Developed Condition.

Table 75
Watershed WS HWY 1804 C3A,3B, AND 3C Runoff
Existing

Watersheds WSC3A, WSC3B, and WSC3C

Plan	HWY 1804 WS	Acres	CN	TOC(min)
Existing	C3A	13.37	72	10
	C3B	35.91	68	33
	C3C	6.33	76	11
Phase 1	C3A	8.20	73	14

Tables 76 and 76A show the peak flow rates for Existing and Phase 1 design storm events for these watersheds.

Table 76
Watersheds WSC3A, WSC3B, WSC3C Runoff
Existing

Event	WSC3A QPeak (cfs)	WSC3B Qpeak (cfs)	WSC3C Qpeak (cfs)
2-year	5.15	3.20	3.74
10-year	17.23	16.28	10.07
15-year	20.31	20.05	11.63
25-year	28.70	30.69	15.81
100-year	49.91	58.99	26.09

Table 76A
Watersheds WSC3A, WSC3B, WSC3C Runoff
Phase 1

Event	WSC3A QPeak (cfs)	WSC3B Qpeak (cfs)	WSC3C Qpeak (cfs)
2-year	2.99	3.20	3.74
10-year	9.63	16.28	10.05
15-year	11.32	20.04	11.60
25-year	15.85	30.65	15.71
100-year	27.56	59.02	26.11

Table 77 shows the peak flow rates for the various design storm events for the Highway 1804 Culverts 3.

Table 77
Highway 1804 Culvert 3

<u>Existing Condition</u>				
<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	13.33	12.46	1643.92	C1-3.32 C2-3.27
10-year	56.77	55.00	1645.20	C1-6.86 C2-6.84
15-year	69.51	67.47	1645.53	C1-7.12 C2-7.10
25-year	98.05	94.31	1646.40	C1-6.70 C2-6.64
100-year	217.89	217.65*	1648.25	C1-9.37 C2-9.33

*-85.49 cfs of this flow overtops road. Velocity is 1.32 fps.

<u>Phase 1</u>				
<u>Event</u>	<u>Qp In (cfs)</u>	<u>Qp Out (cfs)</u>	<u>Water Elev</u>	<u>Vel (fps)</u>
2-year	9.50	9.22	1643.78	C1-3.07 C2-3.02
10-year	44.38	44.16	1644.90	C1-6.61 C2-6.58
15-year	48.85	48.76	1645.03	C1-6.72 C2-6.69
25-year	85.43	82.84	1645.96	C1-5.88 C2-5.85
100-year	177.01	175.00*	1648.19	C1-9.29 C2-9.25

*-43.94 cfs of this flow overtops the road. Velocity is 1.15 fps.

B. Existing/Proposed Storm Water Sewer System

The existing storm water facilities in the project area consist of overland drainage, road ditches and approach culverts. Proposed storm water facilities

will also include road ditches, approach culverts, roadway culverts, drainage channels, and detention ponds.

C. Erosion and Sediment Control During and After Construction:

Control measures will be taken on the project site to prevent erosion and to contain erosion on site, should it occur. It is intended that the best management practice will be used to accomplish this task. This includes, but is not limited to, the use of silt fence, straw bales, wattles, rock checks, and temporary seeding. Once in place, control facilities will be inspected regularly with sediment removed as needed and maintenance performed as required to control erosion and sediment on the site during construction.

After construction has been completed, erosion and sediment control measures shall remain in place until all landscaping and seeding has been completed. Once seeding has established itself sufficiently, control measures will be removed. The earthwork contractor will be responsible for installing and maintaining the erosion control measures. Measures can be seen on Sheets 9-12. Once the project has been approved, the owner will be responsible for all erosion control measures until erosion measure goals are achieved.

Permanent erosion control measures shall remain in place after all temporary erosion control BMP's have been removed. These BMPs shall be maintained as necessary.

D. Water Quality Concerns:

With development of the project site as proposed, sediment transfer from the site should be reduced over pre-development conditions. The construction of buildings, along with paved areas, cover erodible areas and eliminate erosion and sediment transfer. Any other material transfer from this site shall be controlled per federal, state, and county regulations.

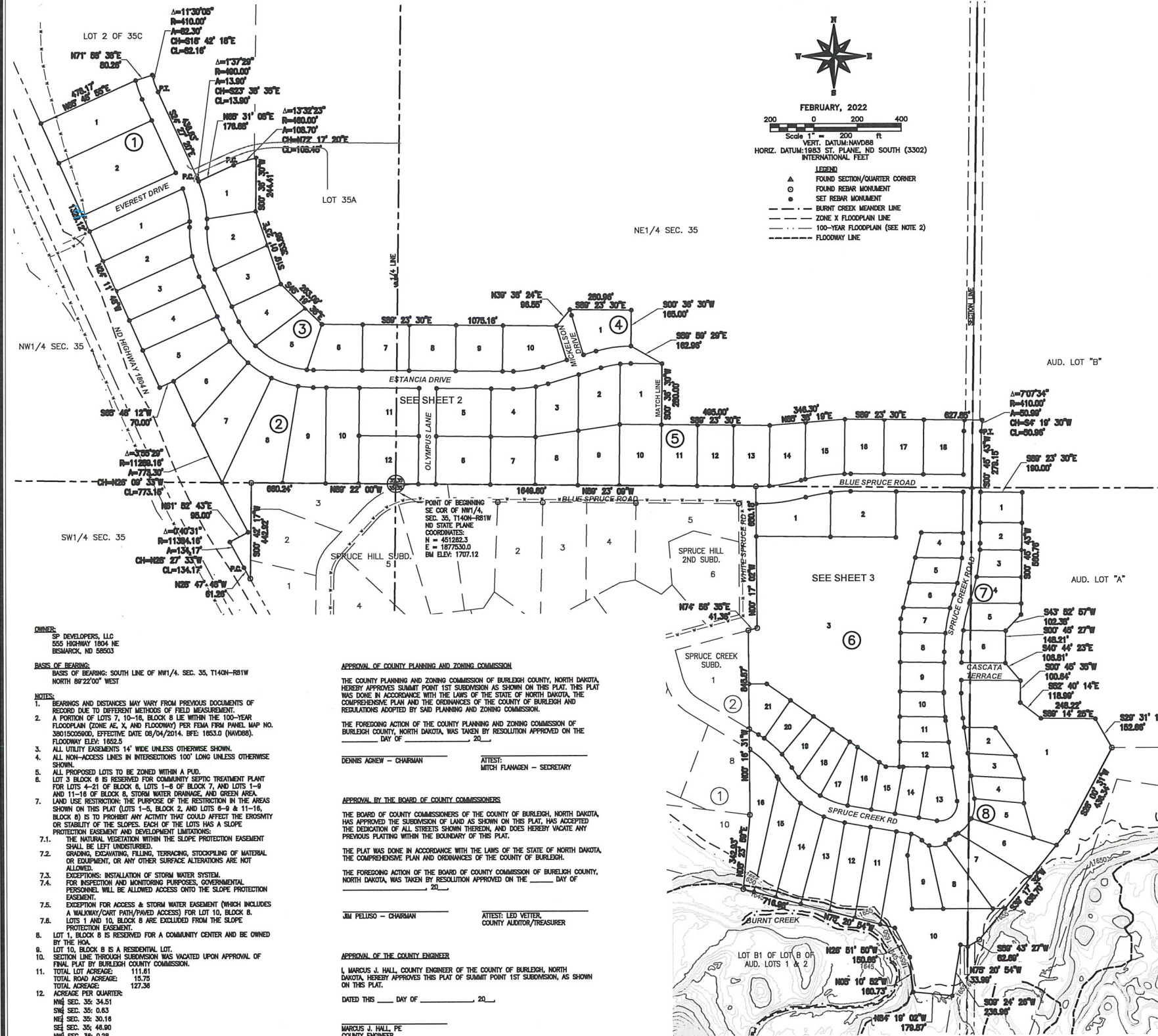
E. Detention Pond Operation and Maintenance:

The existing and new detention ponds as well as structures within the subdivision will be maintained by the Home Owners Association.

SUMMIT POINT 1ST SUBDIVISION

OF BURLEIGH COUNTY, NORTH DAKOTA

PART OF AUDITOR'S LOT 2 OF AUDITOR'S LOT 35C OF THE NW $\frac{1}{4}$, ALL OF LOT 35B OF THE SW $\frac{1}{4}$, PART OF LOT 35A OF THE NW $\frac{1}{4}$, PART OF THE NE $\frac{1}{4}$, PART OF TRACT D OF THE SE $\frac{1}{4}$ AND PART OF LOT B1 OF LOT B OF AUDITOR'S LOTS 1 & 2 OF THE SE $\frac{1}{4}$ OF SECTION 35, PART OF AUDITOR'S LOT "B" OF THE NW $\frac{1}{4}$ OF SECTION 36, AND PART OF AUDITOR'S LOT "A" OF THE SW $\frac{1}{4}$ OF SECTION 36, TOWNSHIP 140 NORTH, RANGE 81 WEST, RIVERVIEW TOWNSHIP



DESCRIPTION OF PROPERTY

A TRACT OF LAND BEING A PART OF AUDITOR'S LOT 2 OF AUDITOR'S LOT 35C OF THE NW $\frac{1}{4}$, ALL OF LOT 35B OF THE SW $\frac{1}{4}$, PART OF LOT 35A OF THE NW $\frac{1}{4}$, PART OF THE NE $\frac{1}{4}$, PART OF TRACT D OF THE SE $\frac{1}{4}$ AND PART OF LOT B1 OF LOT B OF AUDITOR'S LOTS 1 & 2 OF THE SE $\frac{1}{4}$ OF SECTION 35, PART OF AUDITOR'S LOT "B" OF THE NW $\frac{1}{4}$ OF SECTION 36, AND PART OF AUDITOR'S LOT "A" OF THE SW $\frac{1}{4}$ OF SECTION 36, TOWNSHIP 140 NORTH, RANGE 81 WEST, RIVERVIEW TOWNSHIP OF BURLEIGH COUNTY, NORTH DAKOTA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF THE NW $\frac{1}{4}$ OF SECTION 35, T140N-R81W; THENCE NORTH 89°22'00" WEST ALONG THE SOUTH BOUNDARY LINE OF SAID NW $\frac{1}{4}$ FOR 682.24 FEET TO THE NORTHWEST CORNER OF SPRUCE HILL SUBDIVISION OF BURLEIGH COUNTY, NORTH DAKOTA; THENCE SOUTH 07°42'17" WEST ALONG THE WEST BOUNDARY LINE OF SAID SPRUCE HILL SUBDIVISION FOR 422.82 FEET TO A POINT ON THE NORTHEASTERLY RIGHT-OF-WAY LINE OF RD HIGHWAY 1804; THENCE ALONG SAID RIGHT-OF-WAY LINE THE FOLLOWING SIX (6) COURSES; THENCE NORTH 28°47'48" WEST FOR 81.28 FEET TO THE P.C. (POINT OF CURVATURE) OF A CURVE TO THE RIGHT HAVING A RADIUS OF 1134.16 FEET; THENCE ALONG SAID CURVE TO THE RIGHT (CHORD BEARING OF NORTH 28°27'33" WEST, 134.17 FEET) AN ARC LENGTH OF 134.17 FEET; THENCE NORTH 61°52'43" EAST RADIAL TO SAID CURVE FOR 95.00 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT HAVING A RADIUS OF 1128.18 FEET AND RADIAL TO SAID LINE; THENCE ALONG SAID CURVE TO THE RIGHT (CHORD BEARING OF NORTH 28°09'33" WEST, 773.15 FEET) AN ARC LENGTH OF 773.30 FEET; THENCE SOUTH 05°48'12" WEST RADIAL TO SAID CURVE FOR 70.00 FEET; THENCE NORTH 24°11'40" WEST FOR 132.12 FEET; THENCE NORTH 65°46'55" EAST FOR 478.17 FEET; THENCE NORTH 71°58'38" EAST FOR 80.26 FEET TO A POINT ON THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 410.00 FEET; THENCE ALONG SAID CURVE TO THE LEFT (CHORD BEARING OF SOUTH 18°42'18" EAST, 82.18 FEET) AN ARC LENGTH OF 82.30 FEET TO THE P.T. (POINT OF TANGENCY) OF SAID CURVE TO THE LEFT; THENCE SOUTH 24°27'20" EAST FOR 438.83 FEET TO THE P.C. OF A CURVE TO THE RIGHT HAVING A RADIUS OF 480.00 FEET; THENCE ALONG SAID CURVE TO THE RIGHT (CHORD BEARING OF SOUTH 23°38'35" EAST, 13.90 FEET) AN ARC LENGTH OF 13.90 FEET; THENCE NORTH 65°31'57" EAST FOR 178.68 FEET TO THE P.C. OF A CURVE TO THE RIGHT HAVING A RADIUS OF 480.00 FEET; THENCE ALONG SAID CURVE TO THE RIGHT (CHORD BEARING OF NORTH 72°17'20" EAST, 104.45 FEET) AN ARC LENGTH OF 104.70 FEET; THENCE SOUTH 03°36'30" WEST FOR 244.41 FEET; THENCE SOUTH 19°01'23" EAST FOR 333.88 FEET; THENCE SOUTH 45°19'38" EAST FOR 283.00 FEET; THENCE SOUTH 89°23'30" EAST FOR 1075.18 FEET; THENCE NORTH 38°38'24" EAST FOR 88.55 FEET; THENCE SOUTH 89°23'30" EAST FOR 289.98 FEET; THENCE SOUTH 07°36'30" WEST FOR 165.00 FEET; THENCE SOUTH 59°59'29" EAST FOR 162.98 FEET; THENCE SOUTH 07°36'30" WEST FOR 289.00 FEET; THENCE SOUTH 89°23'30" EAST FOR 495.00 FEET; THENCE NORTH 85°38'18" EAST FOR 348.30 FEET; THENCE SOUTH 89°23'30" EAST FOR 827.85 FEET TO A POINT ON THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 410.00 FEET; THENCE ALONG SAID CURVE TO THE LEFT (CHORD BEARING SOUTH 04°19'30" WEST, 50.86 FEET) AN ARC LENGTH OF 50.86 FEET TO THE P.T. OF SAID CURVE TO THE LEFT; THENCE SOUTH 07°45'43" WEST FOR 279.15 FEET; THENCE SOUTH 89°23'30" EAST FOR 160.50 FEET; THENCE SOUTH 07°45'43" WEST FOR 582.78 FEET; THENCE SOUTH 43°57'07" WEST FOR 102.38 FEET; THENCE SOUTH 07°45'27" WEST FOR 148.21 FEET; THENCE SOUTH 40°44'23" EAST FOR 108.81 FEET; THENCE SOUTH 07°45'39" WEST FOR 100.84 FEET; THENCE SOUTH 52°40'14" EAST FOR 118.99 FEET; THENCE SOUTH 89°14'29" EAST FOR 248.22 FEET; THENCE SOUTH 29°11'13" EAST FOR 152.88 FEET TO A POINT ON THE SOUTH BOUNDARY LINE OF AUDITOR'S LOT "A" OF THE SW $\frac{1}{4}$ OF SECTION 36, T140N-R81W; THENCE ALONG SAID SOUTH BOUNDARY LINE THE FOLLOWING THREE (3) COURSES; THENCE SOUTH 28°00'31" WEST FOR 438.34 FEET; THENCE SOUTH 89°17'38" WEST FOR 438.70 FEET; THENCE SOUTH 59°45'27" WEST FOR 62.88 FEET TO THE SOUTHEAST CORNER OF TRACT D OF THE SE $\frac{1}{4}$ OF SAID SECTION 35; THENCE NORTH 75°20'54" WEST ALONG THE SOUTH BOUNDARY LINE OF SAID TRACT D FOR 33.98 FEET; THENCE SOUTH 09°24'30" WEST FOR 238.88 FEET; THENCE NORTH 04°19'02" WEST FOR 178.87 FEET; THENCE NORTH 09°10'02" WEST FOR 148.77 FEET; THENCE NORTH 28°51'50" WEST FOR 150.86 FEET TO A POINT ON THE SOUTH BOUNDARY LINE OF SAID TRACT D; THENCE NORTH 75°20'54" WEST ALONG SAID SOUTH BOUNDARY LINE FOR 718.88 FEET TO THE SOUTHWEST CORNER OF SAID TRACT D; THENCE NORTH 65°23'58" EAST ALONG THE WEST BOUNDARY LINE OF SAID TRACT D FOR 342.83 FEET; THENCE NORTH 07°18'31" WEST CONTINUING ALONG SAID WEST BOUNDARY LINE FOR 848.87 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF WHITE SPRUCE ROAD; THENCE NORTH 74°58'38" EAST ALONG SAID EASTERLY RIGHT-OF-WAY LINE FOR 41.36 FEET; THENCE NORTH 07°17'02" WEST CONTINUING ALONG SAID EASTERLY RIGHT-OF-WAY LINE FOR 650.18 FEET TO A POINT ON THE SOUTH BOUNDARY LINE OF THE NE $\frac{1}{4}$ OF SAID SECTION 35; THENCE NORTH 89°23'30" WEST ALONG SAID SOUTH BOUNDARY LINE FOR 1848.00 FEET TO THE POINT OF BEGINNING. SAID TRACT OF LAND CONTAINING 127.36 ACRES, MORE OR LESS.

SURVEYOR'S CERTIFICATE

I, ANDRA L. MARQUARDT, NORTH DAKOTA REGISTERED LAND SURVEYOR NO. 4623, HEREBY CERTIFY THAT I HAVE CAUSED TO BE SURVEYED BY MY FORCES UNDER MY SUPERVISION THE PROPERTY DESCRIBED HEREIN AND I HAVE PREPARED THE ACCOMPANYING PLAT. FURTHER, THAT DISTANCES INDICATED HEREON ARE IN FEET AND MINUTES THEREOF, AND BEARINGS ARE INDICATED IN QUADRANTS AND DEGREES, MINUTES, AND SECONDS THEREOF, THAT ALL MONUMENTS SHOWN THEREON HAVE BEEN SET, AND THAT ALL DIMENSIONAL AND GEODETIC DETAILS ARE CORRECT; FURTHER, THAT SAID PLAT DOES TRULY SHOW THE SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ANDRA L. MARQUARDT, RLS 4623

OWNER'S CERTIFICATE OF DEDICATION

WE, THE UNDERSIGNED, BEING SOLE OWNERS OF THE LAND PLATTED HEREIN, DO HEREBY VOLUNTARILY CONSENT TO THE EXECUTION OF SAID PLAT AND DO DEDICATE ALL THE RIGHT OF WAY IDENTIFIED HEREIN TO THE PUBLIC FOREVER. WE ALSO DEDICATE EASEMENTS TO RUN WITH THE LAND FOR GAS, ELECTRIC, TELEPHONE, WATER OR OTHER SAID UTILITIES SERVICES OR UNDER THOSE CERTAIN STRIPS OF LAND DESIGNATED HEREON AS "UTILITY EASEMENT".

WE FURTHER DEDICATE STORM WATER AND ACCESS EASEMENTS AS SHOWN HEREIN.

GAM JONSTON, PRESIDENT
SP DEVELOPERS, LLC

SUBSCRIBED AND SHOWN BEFORE ME, A NOTARY PUBLIC, THIS _____ DAY OF _____, 20____.

NOTARY PUBLIC
COUNTY, _____

MY COMMISSION EXPIRES _____

TOMAN ENGINEERING
501 1st Street NW, Mandan, ND 58554
Phone: 701-663-6483 * Fax: 701-663-0923
SURVEYOR: ANDRA L. MARQUARDT, RLS-4623
SHEET 1 OF 3

OWNER:
SP DEVELOPERS, LLC
555 HIGHWAY 1804 NE
BISMARCK, ND 58503

BASIS OF BEARING:
BASIS OF BEARING: SOUTH LINE OF NW $\frac{1}{4}$, SEC. 35, T140N-R81W NORTH 89°22'00" WEST

NOTES:

- BEARINGS AND DISTANCES MAY VARY FROM PREVIOUS DOCUMENTS OF RECORD DUE TO DIFFERENT METHODS OF FIELD MEASUREMENT.
- A PORTION OF LOTS 7, 10-16, BLOCK 8 LIE WITHIN THE 100-YEAR FLOODPLAIN (ZONE AE, X, AND FLOODWAY) PER FEMA PANEL MAP NO. 3801020000, EFFECTIVE DATE 08/04/2014, BEF. 1863.0 (NAVD88), FLOODWAY ELEV: 1622.5
- ALL UTILITY EASEMENTS 14' WIDE UNLESS OTHERWISE SHOWN.
- ALL NON-ACCESS LINES IN INTERSECTIONS 100' LONG UNLESS OTHERWISE SHOWN.
- ALL PROPOSED LOTS TO BE ZONED WITHIN A PUD.
- LOT 3 BLOCK 8 IS RESERVED FOR COMMUNITY SEPTIC TREATMENT PLANT FOR LOTS 4-21 OF BLOCK 8, LOTS 1-8 OF BLOCK 7, AND LOTS 1-9 AND 11-16 OF BLOCK 6, STORM WATER DRAINAGE, AND GREEN AREA.
- LAND USE RESTRICTION: THE PURPOSE OF THE RESTRICTION IN THE AREAS SHOWN ON THIS PLAT (LOTS 1-8, BLOCK 2, AND LOTS 6-9 & 11-16, BLOCK 8) IS TO PROHIBIT ANY ACTIVITY THAT COULD AFFECT THE EROSION OR STABILITY OF THE SLOPES. EACH OF THE LOTS HAS A SLOPE PROTECTION EASEMENT AND DEVELOPMENT LIMITATIONS:
 - THE NATURAL VEGETATION WITHIN THE SLOPE PROTECTION EASEMENT SHALL BE LEFT UNDISTURBED.
 - GRADING, EXCAVATING, FILLING, TERRACING, STOCKPILING OF MATERIAL OR EQUIPMENT, OR ANY OTHER SURFACE ALTERATIONS ARE NOT ALLOWED.
 - EXCEPTIONS: INSTALLATION OF STORM WATER SYSTEM.
 - FOR INSPECTION AND MONITORING PURPOSES, GOVERNMENTAL PERSONNEL WILL BE ALLOWED ACCESS ONTO THE SLOPE PROTECTION EASEMENT.
 - EXCEPTION FOR ACCESS & STORM WATER EASEMENT (WHICH INCLUDES A WALKWAY/DRIVE PATH/PAVED ACCESS) FOR LOT 10, BLOCK 8.
- LOTS 1 AND 10, BLOCK 8 ARE EXCLUDED FROM THE SLOPE PROTECTION EASEMENT.
- LOT 1, BLOCK 8 IS RESERVED FOR A COMMUNITY CENTER AND BE OWNED BY THE HOA.
- LOT 10, BLOCK 8 IS A RESIDENTIAL LOT.
- SECTION LINE THROUGH SUBDIVISION WAS VACATED UPON APPROVAL OF FINAL PLAT BY BURLEIGH COUNTY COMMISSION.
- TOTAL LOT ACRES: 111.81
TOTAL ROAD ACRES: 15.75
TOTAL ACRES: 127.36
- ACREAGE PER QUARTER:
NW $\frac{1}{4}$ SEC. 35: 34.51
SW $\frac{1}{4}$ SEC. 35: 0.83
NE $\frac{1}{4}$ SEC. 35: 30.16
SE $\frac{1}{4}$ SEC. 35: 46.80
NW $\frac{1}{4}$ SEC. 36: 0.28
SW $\frac{1}{4}$ SEC. 36: 14.88

APPROVAL OF COUNTY PLANNING AND ZONING COMMISSION

THE COUNTY PLANNING AND ZONING COMMISSION OF BURLEIGH COUNTY, NORTH DAKOTA, HEREBY APPROVES SUMMIT POINT 1ST SUBDIVISION AS SHOWN ON THIS PLAT. THIS PLAT WAS DONE IN ACCORDANCE WITH THE LAWS OF THE STATE OF NORTH DAKOTA, THE COMPREHENSIVE PLAN AND THE ORDINANCES OF THE COUNTY OF BURLEIGH AND REGULATIONS ADOPTED BY SAID PLANNING AND ZONING COMMISSION.

THE FOREGOING ACTION OF THE COUNTY PLANNING AND ZONING COMMISSION OF BURLEIGH COUNTY, NORTH DAKOTA, WAS TAKEN BY RESOLUTION APPROVED ON THE _____ DAY OF _____, 20____.

DENNIS AGREW - CHAIRMAN
MITCH FLANAGAN - SECRETARY

APPROVAL BY THE BOARD OF COUNTY COMMISSIONERS

THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF BURLEIGH, NORTH DAKOTA, HAS APPROVED THE SUBDIVISION OF LAND AS SHOWN ON THIS PLAT, HAS ACCEPTED THE DEDICATION OF ALL STREETS SHOWN THEREON, AND DOES HEREBY VACATE ANY PREVIOUS PLATTING WITHIN THE BOUNDARY OF THIS PLAT.

THE PLAT WAS DONE IN ACCORDANCE WITH THE LAWS OF THE STATE OF NORTH DAKOTA, THE COMPREHENSIVE PLAN AND ORDINANCES OF THE COUNTY OF BURLEIGH.

THE FOREGOING ACTION OF THE BOARD OF COUNTY COMMISSION OF BURLEIGH COUNTY, NORTH DAKOTA, WAS TAKEN BY RESOLUTION APPROVED ON THE _____ DAY OF _____, 20____.

JIM PELUSSO - CHAIRMAN
LEO VETTER, COUNTY AUDITOR/TREASURER

APPROVAL OF THE COUNTY ENGINEER

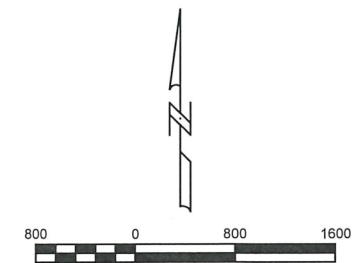
I, MARCUS J. HALL, COUNTY ENGINEER OF THE COUNTY OF BURLEIGH, NORTH DAKOTA, HEREBY APPROVES THIS PLAT OF SUMMIT POINT 1ST SUBDIVISION, AS SHOWN ON THIS PLAT.

DATED THIS _____ DAY OF _____, 20____.

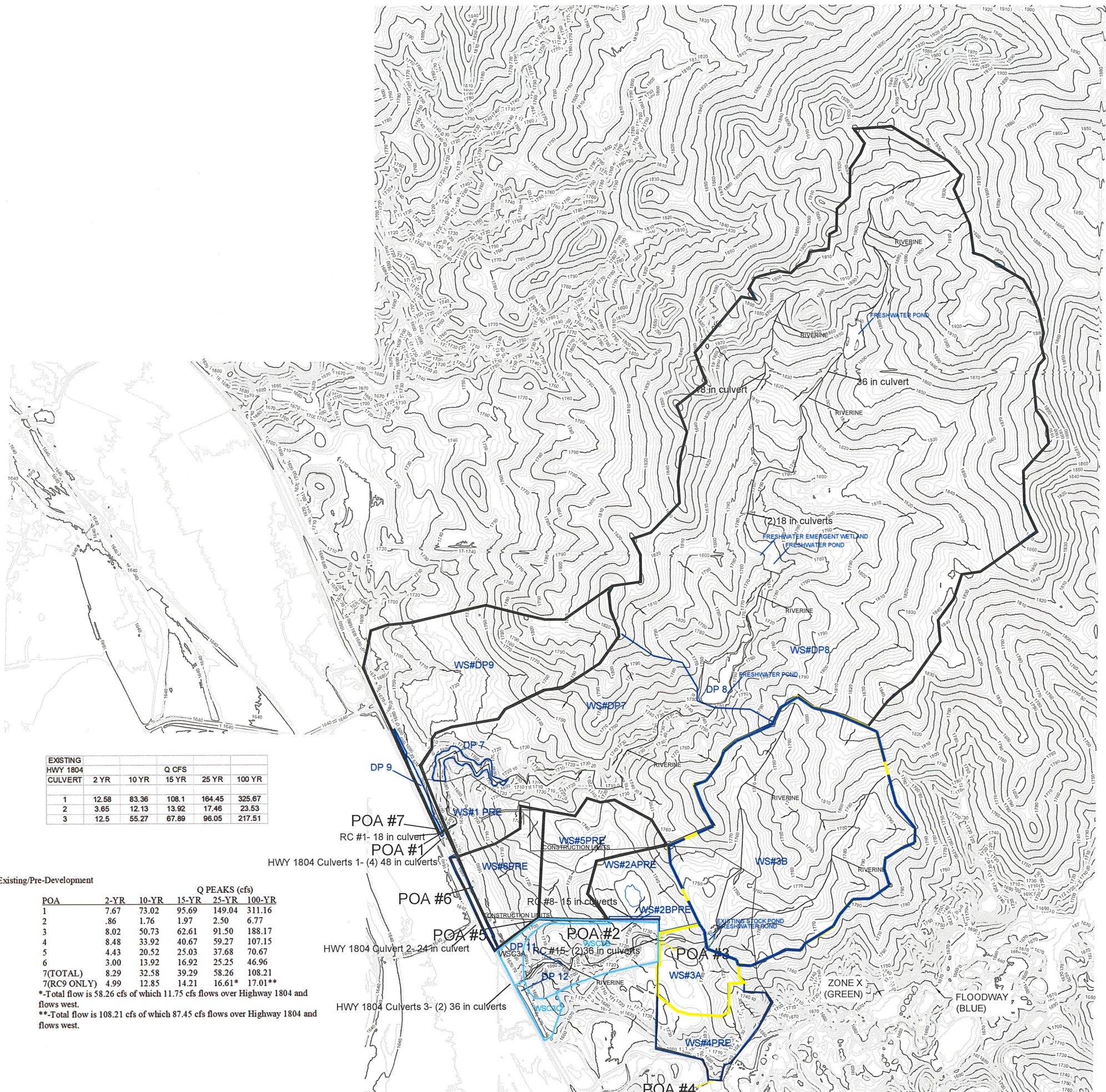
MARCUS J. HALL, PE
COUNTY ENGINEER

TOMAN ENGINEERING
501 1st Street NW, Mandan, ND 58554
Phone: 701-663-6483 * Fax: 701-663-0923
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LOCATION MAP
SUMMIT POINT 1ST SUBDIVISION
STORM WATER MANAGEMENT PLAN



VERT. DATUM: NAVD88
 HORIZ DATUM: 1983 STATE PLANE, ND SOUTH (3302)



EXISTING HWY 1804 CULVERT	2 YR	10 YR	Q CFS 15 YR	25 YR	100 YR
1	12.58	83.36	108.1	164.45	325.67
2	3.65	12.13	13.92	17.46	23.53
3	12.5	55.27	67.89	96.05	217.51

Existing/Pre-Development

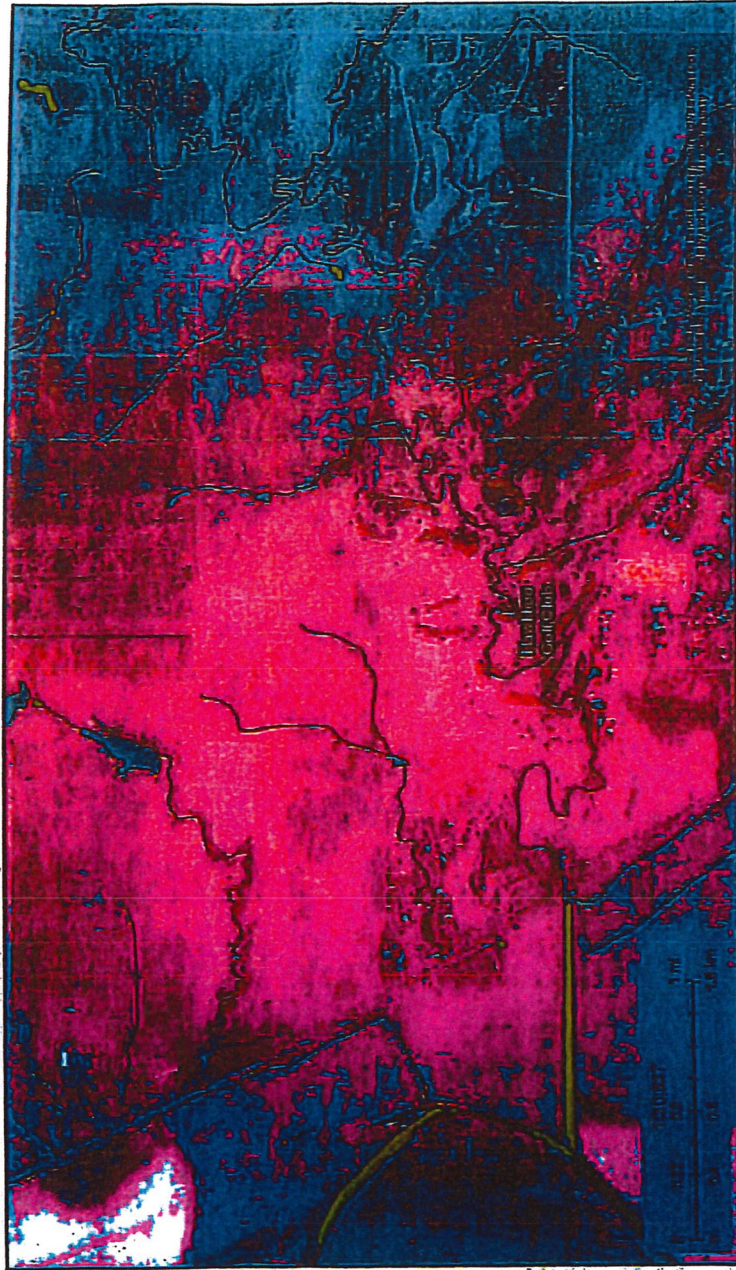
POA	2-YR	10-YR	15-YR	25-YR	100-YR
1	7.67	73.02	95.69	149.04	311.16
2	.86	1.76	1.97	2.50	6.77
3	8.02	50.73	62.61	91.50	188.17
4	8.48	33.92	40.67	59.27	107.15
5	4.43	20.52	25.03	37.68	70.67
6	3.00	13.92	16.92	25.25	46.96
7(TOTAL)	8.29	32.58	39.29	58.26	108.21
7(RC9 ONLY)	4.99	12.85	14.21	16.61*	17.01**

*-Total flow is 58.26 cfs of which 11.75 cfs flows over Highway 1804 and flows west.
 **-Total flow is 108.21 cfs of which 87.45 cfs flows over Highway 1804 and flows west.

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EXISTING WATERSHEDS
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN

SUMMIT POINT 1ST SUBDIVISION



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or completeness of the data shown on this map. Users should verify the data shown on this map with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI Mapper

- October 19, 2021
- Wetlands**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine

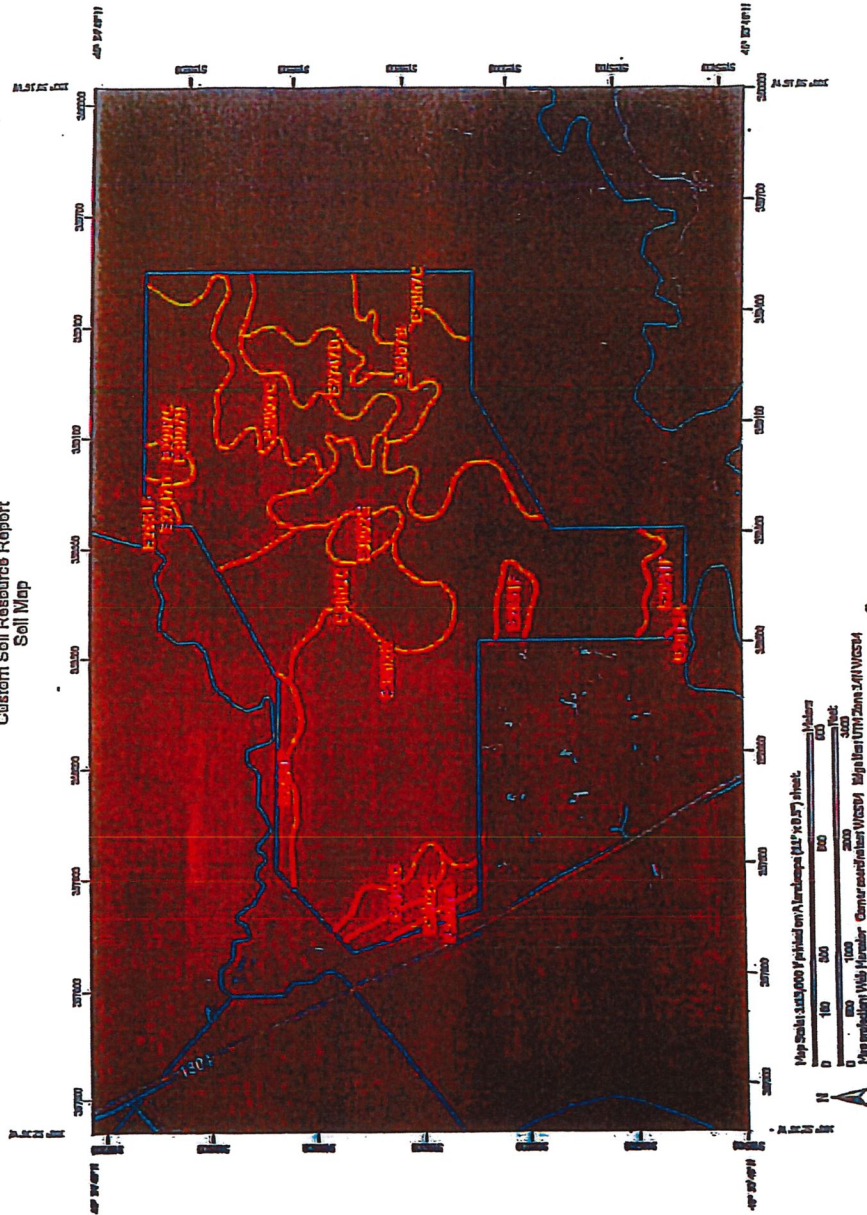
PROJECT

SUMMIT POINT 1ST
NWI MAP
SHEET 3



TOMAN ENGINEERING
801 1st Street NW, Marietta, GA 30064
Phone: 770-595-9100 • Fax: 770-595-9100

Custom Soil Resource Report
Soil Map



PROJECT:

SUMMIT POINT 1ST
SOILS MAP
SHEET 4



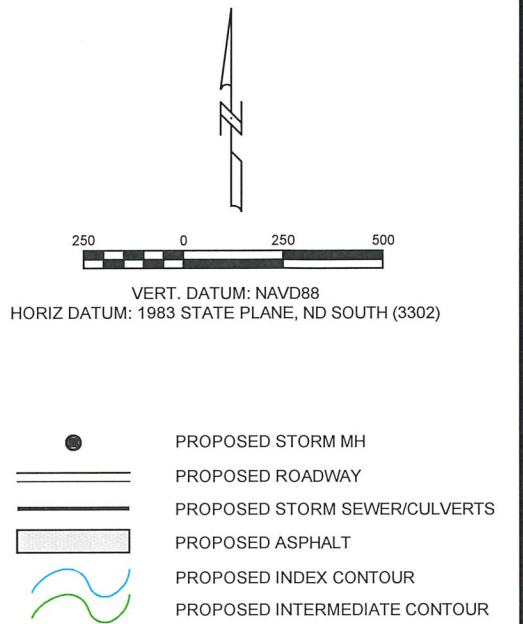
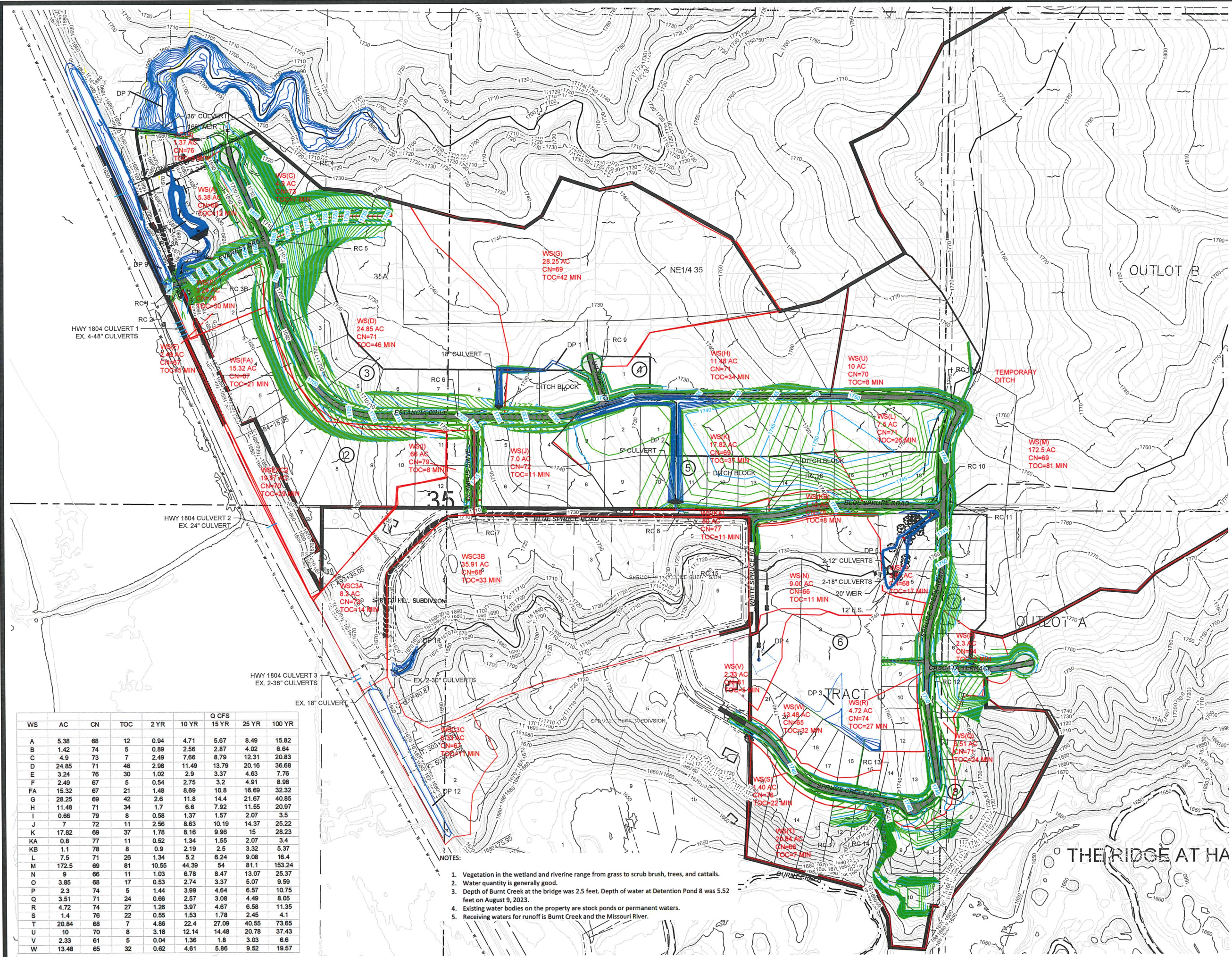
TOMAN ENGINEERING
 501 1st Street NW, Mandan, ND 58554
 Phone: 701-663-9483 • Fax: 701-663-1862

Map Unit Legend

Map Unit Symbol	Map Unit Name	Area in A:0	Percent in A:0
E1001F	Wentz-Annex-Merced loam, 2 to 20 percent slopes	18.3	4.2%
E1001D	Wentz-Charle-Donahue loam, 0 to 15 percent slopes	20.0	5.0%
E1001B	Wentz-Charle-Donahue loam, 2 to 8 percent slopes	87.7	22.1%
E1001C	Wentz-Charle-Donahue loam, 8 to 15 percent slopes	43.4	11.1%
E1001A	Wentz-Charle-Donahue loam, 0 to 2 percent slopes	2.1	0.5%
E1002B	Wentz-Charle-Donahue loam, 2 to 8 percent slopes	102.8	46.9%
E1002D	Wentz-Charle-Donahue loam, 8 to 15 percent slopes	42.2	11.1%
E1002C	Wentz-Charle-Donahue loam, 15 to 25 percent slopes	8.8	1.7%
E1002A	Wentz-Charle-Donahue loam, 0 to 2 percent slopes	3.3	1.4%
E1003A	Wentz-Charle-Donahue loam, 0 to 2 percent slopes	0.1	0.0%
E1003B	Wentz-Charle-Donahue loam, 2 to 8 percent slopes	0.1	0.1%
Total for Areas of Interest			108.9%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or soil series 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 soil series of a particular soil order. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are generally defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristics of variability or 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 that have properties that fall outside the limits of the taxonomic class are designated as map units. Map units include soils of a single taxonomic class, or a group of soils of different taxonomic classes 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



STRUCTURE	TYPE	SIZE	MATERIAL
RC1	CULVERT	18"	CONCRETE
RC2	CULVERT	2-48"	CONCRETE
RC3A	CULVERT/RISER	24"/30"	CMP/CONCRETE
RC3B	CULVERT/RISER	24"/30"	CONCRETE/CONCRETE
RC4	CULVERT	30"	CONCRETE
RC5	CULVERT	30"	CONCRETE
RC6	CULVERT	18"	CONCRETE
RC7	CULVERT	18"	CONCRETE
RC8	CULVERT	15"	CMP
RC9	CULVERT	24"	CONCRETE
RC10	CULVERT	2-18"	CONCRETE
RC11	CULVERT	2-36"	CONCRETE
RC12	CULVERT	18"	CONCRETE
RC13	CULVERT	18"	CONCRETE
RC14	CULVERT	18"	CONCRETE
RC15	CULVERT	2-36"	CMP
RC16	CULVERT	24"	CONCRETE
RC17	CULVERT	30"	CMP
RC18	CULVERT	18"	CONCRETE
DP1	CULVERT	18"	CMP
DP2	CULVERT	5"	PVC
DP3	CULVERT	12"	PVC
DP4	CULVERT	15"	PVC
DP5	CULVERT	2-12"	CMP
	ROCK DAM	20'	ROCK
	CULVERT	2-18"	CMP
	EMERGENCY SPILLWAY	12'	EARTH
DP6	SEE RC2		
DP7	CULVERT	36"	CONCRETE
DP8	EMERGENCY SPILLWAY	30'	EARTH
DP9	SEE RC1		
DP10	CULVERT	10"	CMP
	RISER	54"	CMP
	CULVERT	36"	CMP

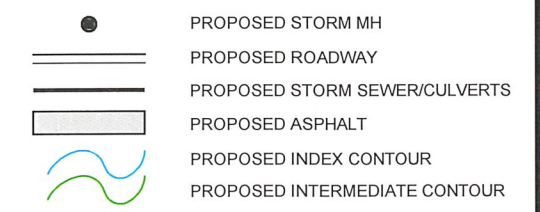
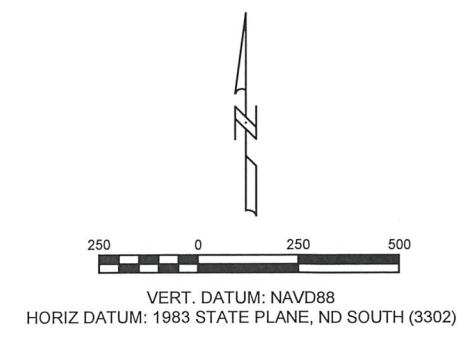
WS	AC	CN	TOC	2 YR	10 YR	Q CFS	25 YR	100 YR
A	5.38	68	12	0.94	4.71	5.67	8.49	15.82
B	1.42	74	5	0.89	2.56	2.87	4.02	6.64
C	4.9	73	7	2.49	7.66	8.79	12.31	20.83
D	24.85	71	46	2.98	11.49	13.79	20.16	36.68
E	3.24	76	30	1.02	2.9	3.37	4.63	7.76
F	2.49	67	5	0.54	2.75	3.2	4.91	8.98
FA	15.32	67	21	1.48	8.69	10.8	16.69	32.32
G	28.25	69	42	2.6	11.8	14.4	21.67	40.85
H	11.48	71	34	1.7	6.6	7.92	11.55	20.97
I	0.66	79	8	0.58	1.37	1.57	2.07	3.5
J	7	72	11	2.56	8.63	10.19	14.37	25.22
K	17.82	69	37	1.78	8.16	9.96	15	28.23
KA	0.8	77	11	0.52	1.34	1.55	2.07	3.4
KB	1.1	78	8	0.9	2.19	2.5	3.32	5.37
L	7.5	71	26	1.34	5.2	6.24	9.08	16.4
M	172.5	69	81	10.55	44.39	54	81.1	153.24
N	9	66	11	1.03	6.78	8.47	13.07	25.37
O	3.85	68	17	0.53	2.74	3.37	5.07	9.59
P	2.3	74	5	1.44	3.99	4.64	6.57	10.75
Q	3.51	71	24	0.66	2.57	3.08	4.49	8.05
R	4.72	74	27	1.26	3.97	4.67	6.58	11.35
S	1.4	76	22	0.55	1.53	1.78	2.45	4.1
T	20.84	68	7	4.86	22.4	27.09	40.55	73.85
U	10	70	8	3.18	12.14	14.48	20.78	37.43
V	2.33	61	5	0.04	1.36	1.8	3.03	6.6
W	13.48	65	32	0.62	4.81	5.86	9.52	19.57

- NOTES:
1. Vegetation in the wetland and riverine range from grass to scrub brush, trees, and cattails.
 2. Water quantity is generally good.
 3. Depth of Burnt Creek at the bridge was 2.5 feet. Depth of water at Detention Pond 8 was 5.52 feet on August 9, 2023.
 4. Existing water bodies on the property are stock ponds or permanent waters.
 5. Receiving waters for runoff is Burnt Creek and the Missouri River.

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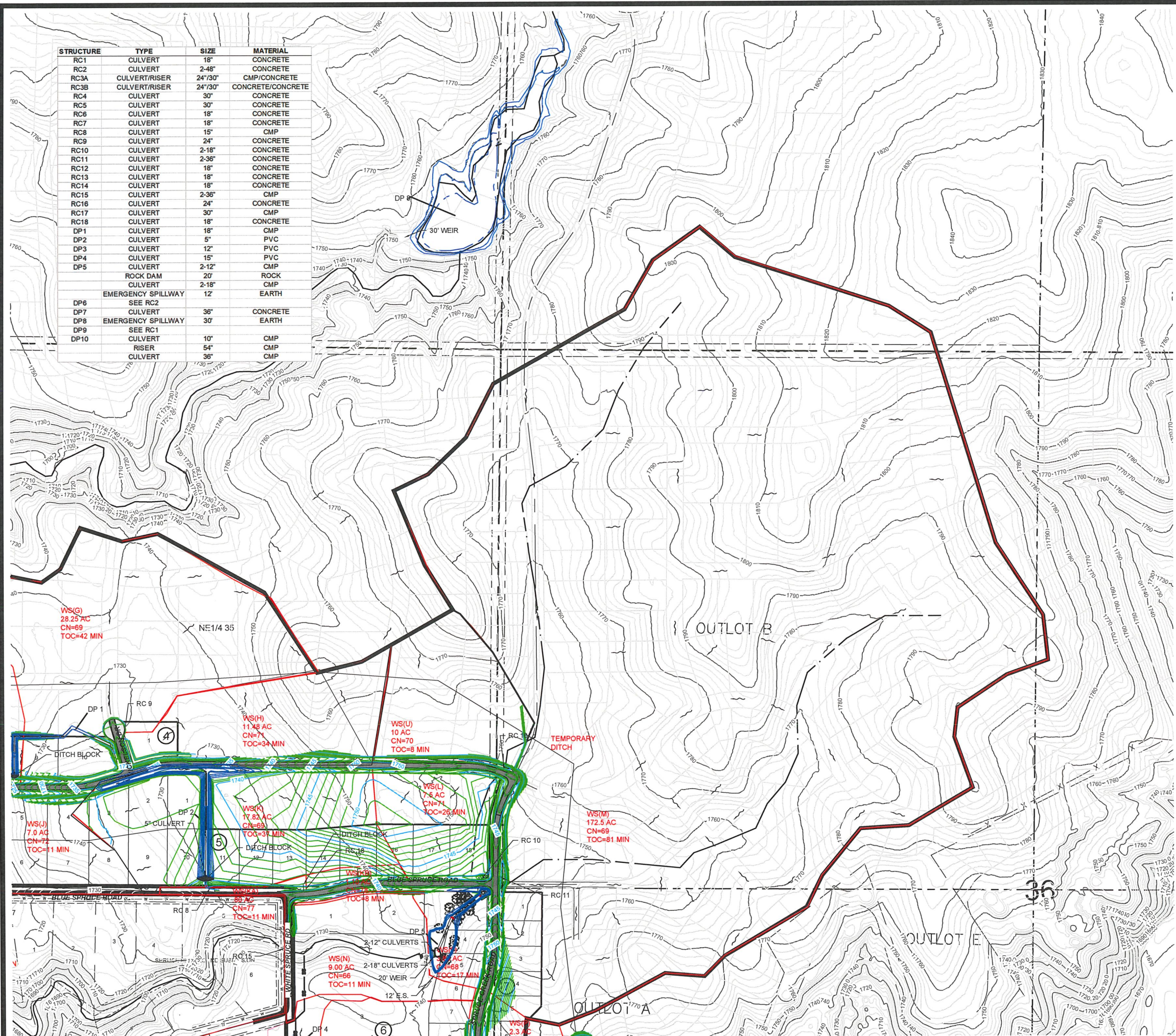
PHASE 1 ROAD CULVERTS & WATERSHEDS
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN

STRUCTURE	TYPE	SIZE	MATERIAL
RC1	CULVERT	18"	CONCRETE
RC2	CULVERT	2-48"	CONCRETE
RC3A	CULVERT/RISER	24'/30"	CMP/CONCRETE
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RC7	CULVERT	18"	CONCRETE
RC8	CULVERT	15"	CMP
RC9	CULVERT	24"	CONCRETE
RC10	CULVERT	2-18"	CONCRETE
RC11	CULVERT	2-36"	CONCRETE
RC12	CULVERT	18"	CONCRETE
RC13	CULVERT	18"	CONCRETE
RC14	CULVERT	18"	CONCRETE
RC15	CULVERT	2-36"	CMP
RC16	CULVERT	24"	CONCRETE
RC17	CULVERT	30"	CMP
RC18	CULVERT	18"	CONCRETE
DP1	CULVERT	18"	CMP
DP2	CULVERT	5"	PVC
DP3	CULVERT	12"	PVC
DP4	CULVERT	15"	PVC
DP5	CULVERT	2-12"	CMP
	ROCK DAM	20'	ROCK
	CULVERT	2-18"	CMP
	EMERGENCY SPILLWAY	12'	EARTH
DP6	SEE RC2		
DP7	CULVERT	36"	CONCRETE
DP8	EMERGENCY SPILLWAY	30'	EARTH
DP9	SEE RC1		
DP10	CULVERT	10"	CMP
	RISER	54"	CMP
	CULVERT	36"	CMP



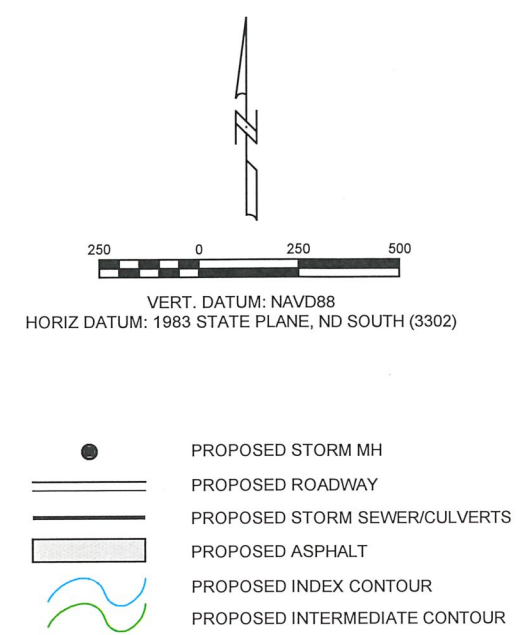
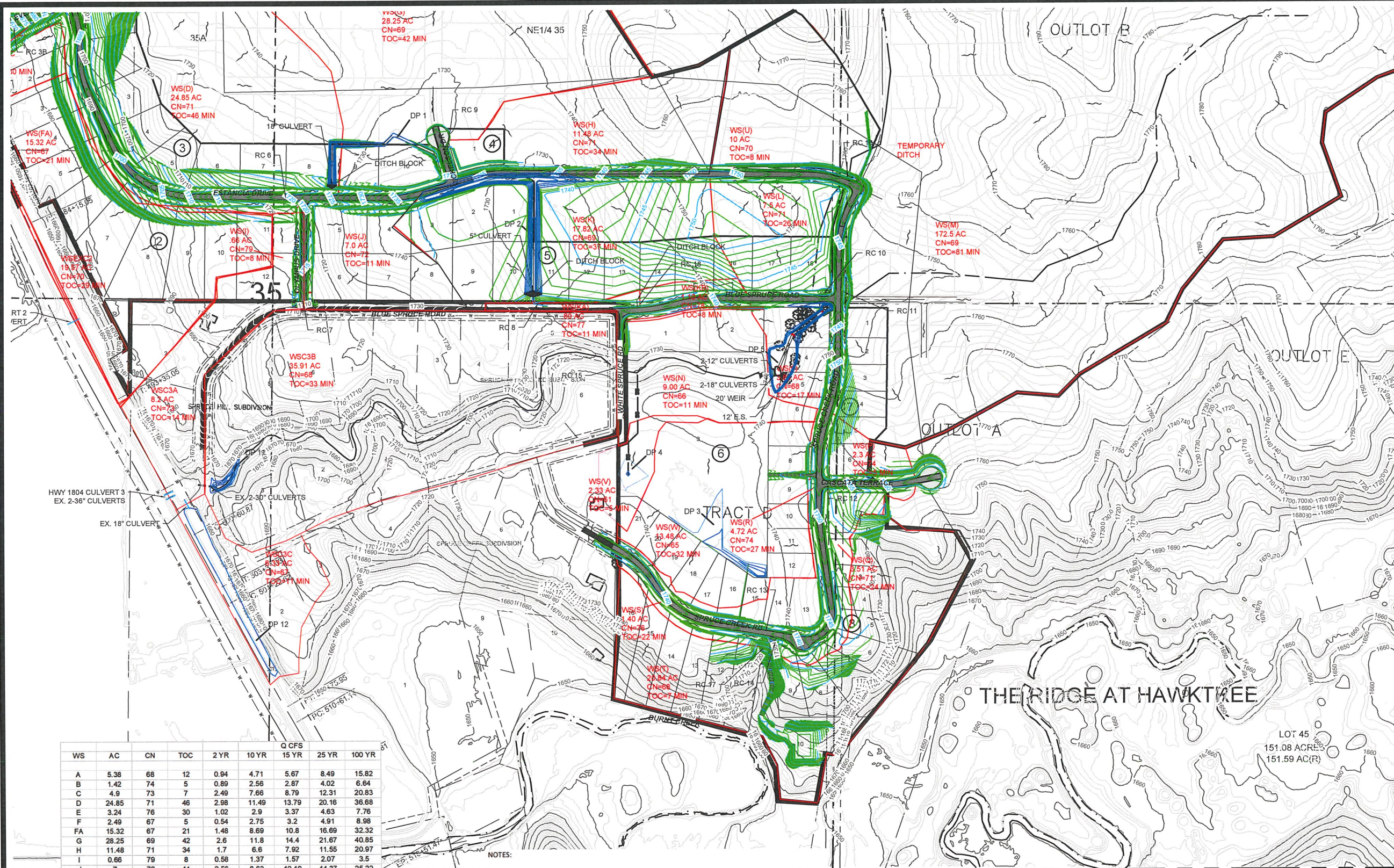
WS	AC	CN	TOC	2 YR	10 YR	Q CFS 15 YR	25 YR	100 YR
A	5.38	68	12	0.94	4.71	5.67	8.49	15.82
B	1.42	74	5	0.89	2.56	2.87	4.02	6.64
C	4.9	73	7	2.49	7.86	8.79	12.31	20.83
D	24.85	71	46	2.98	11.49	13.79	20.16	36.68
E	3.24	76	30	1.02	2.9	3.37	4.63	7.76
F	2.49	67	5	0.54	2.75	3.2	4.91	8.98
FA	15.32	67	21	1.48	8.69	10.8	16.69	32.32
G	28.25	69	42	2.6	11.8	14.4	21.67	40.85
H	11.48	71	34	1.7	6.6	7.92	11.55	20.97
I	0.66	79	8	0.58	1.37	1.57	2.07	3.5
J	7	72	11	2.56	8.63	10.19	14.37	25.22
K	17.82	69	37	1.78	8.16	9.96	15	28.23
KA	0.8	77	11	0.52	1.34	1.55	2.07	3.4
KB	1.1	78	8	0.9	2.19	2.5	3.32	5.37
L	7.5	71	26	1.34	5.2	6.24	9.08	16.4
M	172.5	69	81	10.55	44.39	54	81.1	153.24
N	9	66	11	1.03	6.78	8.47	13.07	25.37
O	3.85	68	17	0.53	2.74	3.37	5.07	9.59
P	2.3	74	5	1.44	3.99	4.64	6.57	10.75
Q	3.51	71	24	0.66	2.57	3.08	4.49	8.05
R	4.72	74	27	1.26	3.97	4.67	6.58	11.35
S	1.4	76	22	0.55	1.53	1.78	2.45	4.1
T	20.84	68	7	4.86	22.4	27.09	40.55	73.65
U	10	70	8	3.18	12.14	14.48	20.78	37.43
V	2.33	61	5	0.04	1.36	1.8	3.03	6.6
W	13.48	65	32	0.62	4.61	5.86	9.52	19.57

- NOTES:
1. Vegetation in the wetland and riverine range from grass to scrub brush, trees, and cattails.
 2. Water quantity is generally good.
 3. Depth of Burnt Creek at the bridge was 2.5 feet. Depth of water at Detention Pond 8 was 5.52 feet on August 9, 2023.
 4. Existing water bodies on the property are stock ponds or permanent waters.
 5. Receiving waters for runoff is Burnt Creek and the Missouri River.



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PHASE 1 ROAD CULVERTS & WATERSHEDS
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN



STRUCTURE	TYPE	SIZE	MATERIAL
RC1	CULVERT	18"	CONCRETE
RC2	CULVERT	2-48"	CONCRETE
RC3A	CULVERT/RISER	24"/30"	CMP/CONCRETE
RC3B	CULVERT/RISER	24"/30"	CONCRETE/CONCRETE
RC4	CULVERT	30"	CONCRETE
RC5	CULVERT	30"	CONCRETE
RC6	CULVERT	18"	CONCRETE
RC7	CULVERT	18"	CONCRETE
RC8	CULVERT	15"	CMP
RC9	CULVERT	24"	CONCRETE
RC10	CULVERT	2-18"	CONCRETE
RC11	CULVERT	2-36"	CONCRETE
RC12	CULVERT	18"	CONCRETE
RC13	CULVERT	18"	CONCRETE
RC14	CULVERT	18"	CONCRETE
RC15	CULVERT	2-36"	CMP
RC16	CULVERT	24"	CONCRETE
RC17	CULVERT	30"	CMP
RC18	CULVERT	18"	CONCRETE
DP1	CULVERT	18"	CMP
DP2	CULVERT	5"	PVC
DP3	CULVERT	12"	PVC
DP4	CULVERT	15"	PVC
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	ROCK DAM	20'	ROCK
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	EMERGENCY SPILLWAY	12'	EARTH
DP6	SEE RC2		
DP7	CULVERT	36"	CONCRETE
DP8	EMERGENCY SPILLWAY	30'	EARTH
DP9	SEE RC1		
DP10	CULVERT	10"	CMP
	RISER	54"	CMP
	CULVERT	36"	CMP

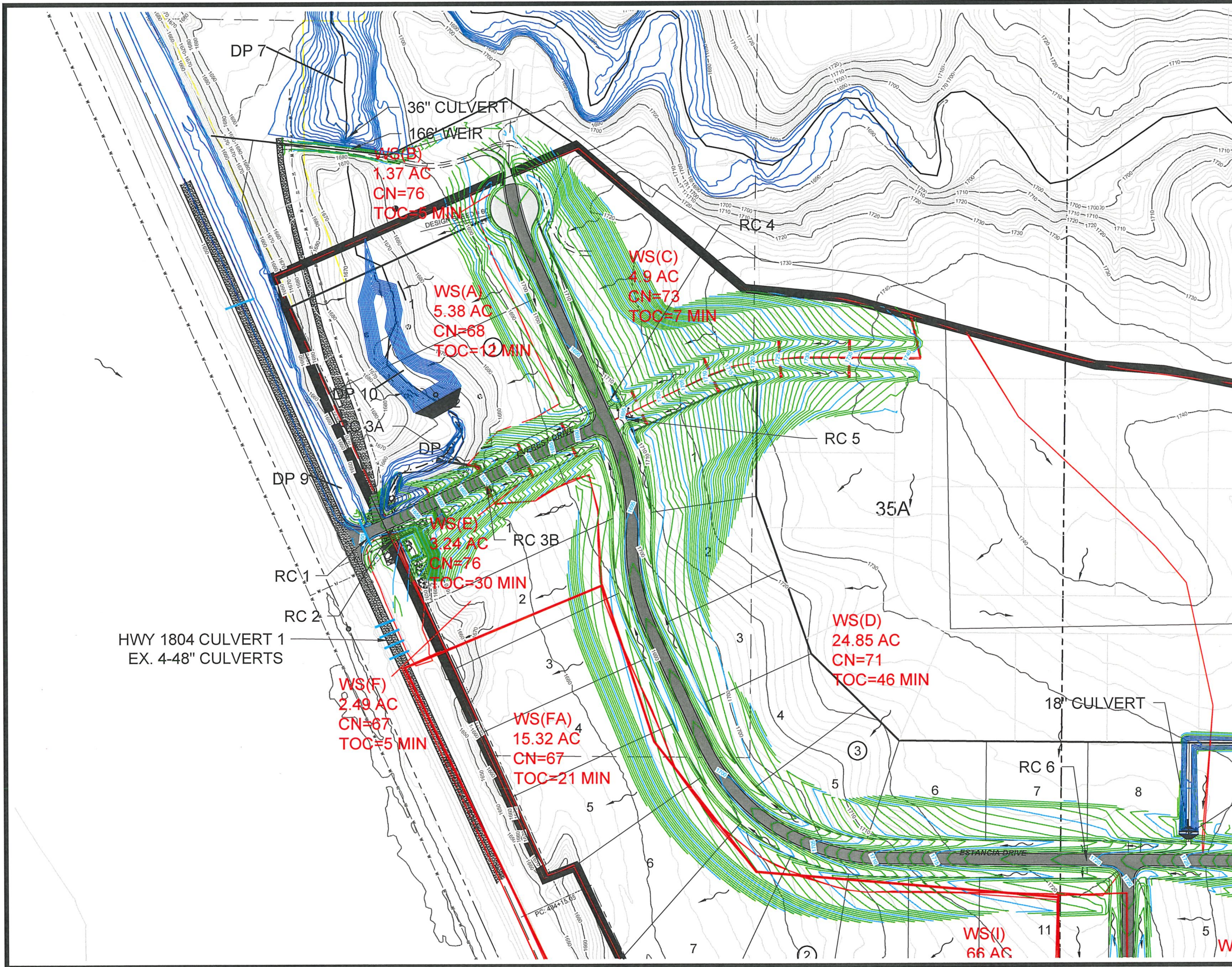
WS	AC	CN	TOC	2 YR	10 YR	Q CFS	15 YR	25 YR	100 YR
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C	4.9	73	7	2.49	7.66	8.79	12.31	20.83	
D	24.85	71	46	2.98	11.49	13.79	20.16	36.68	
E	3.24	76	30	1.02	2.9	3.37	4.63	7.76	
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FA	15.32	67	21	1.48	8.69	10.8	16.69	32.32	
G	28.25	69	42	2.6	11.8	14.4	21.67	40.85	
H	11.48	71	34	1.7	6.6	7.92	11.55	20.97	
I	0.66	79	8	0.58	1.37	1.57	2.07	3.5	
J	7	72	11	2.56	8.63	10.19	14.37	25.22	
K	17.82	69	37	1.78	8.16	9.96	15	28.23	
KA	0.8	77	11	0.52	1.34	1.55	2.07	3.4	
KB	1.1	78	9	0.9	2.19	2.5	3.32	5.37	
L	7.5	71	26	1.34	5.2	6.24	9.08	16.4	
M	172.5	69	81	10.55	44.39	54	81.1	153.24	
N	9	66	11	1.03	6.78	8.47	13.07	25.37	
O	3.85	68	17	0.53	2.74	3.37	5.07	9.99	
P	2.3	74	5	1.44	3.99	4.64	6.57	10.75	
Q	3.51	71	24	0.66	2.57	3.08	4.49	8.05	
R	4.72	74	27	1.26	3.97	4.67	6.58	11.35	
S	1.4	76	22	0.55	1.53	1.78	2.45	4.1	
T	20.84	68	7	4.86	22.4	27.09	40.55	73.65	
U	10	70	8	3.18	12.14	14.48	20.78	37.43	
V	2.33	61	5	0.04	1.36	1.8	3.03	6.6	
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- NOTES:
1. Vegetation in the wetland and riverine range from grass to scrub brush, trees, and cattails.
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LOT 44
54.01 ACRES
53.45 AC(R)

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PHASE 1 ROAD CULVERTS & WATERSHEDS
SUMMIT POINT 1ST SUBDIVISION
STORM WATER MANAGEMENT PLAN




 100 0 100 200
 VERT. DATUM: NAVD88
 HORIZ DATUM: 1983 STATE PLANE, ND SOUTH (3302)

- PROPOSED STORM MH
- PROPOSED ROADWAY
- PROPOSED STORM SEWER/CULVERTS
- PROPOSED ASPHALT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

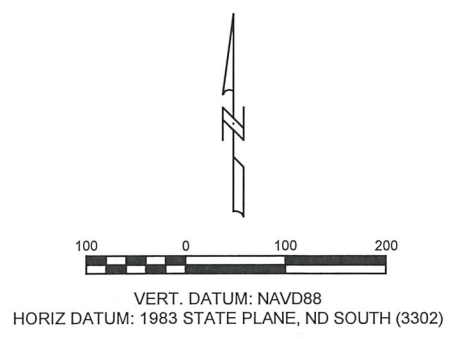
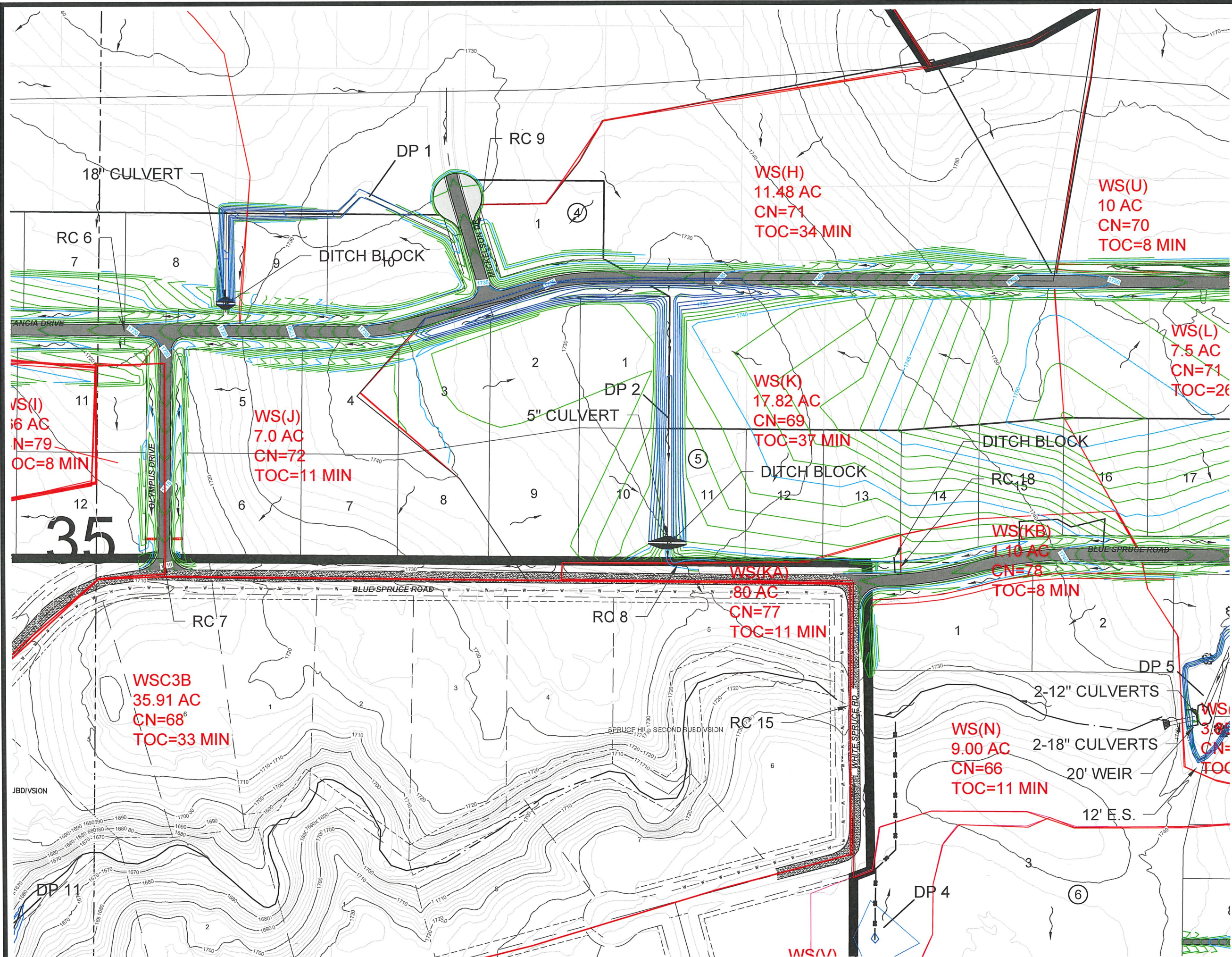


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PHASE 1 ROAD CULVERTS & WATERSHEDS
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN

BURLEIGH COUNTY, NORTH DAKOTA

SHEET 6B JULY, 2022



- PROPOSED STORM MH
- PROPOSED ROADWAY
- PROPOSED STORM SEWER/CULVERTS
- PROPOSED ASPHALT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

WS(I)
16 AC
CN=79
TOC=8 MIN

WS(J)
7.0 AC
CN=72
TOC=11 MIN

WS(H)
11.48 AC
CN=71
TOC=34 MIN

WS(U)
10 AC
CN=70
TOC=8 MIN

WS(K)
17.82 AC
CN=69
TOC=37 MIN

WS(L)
7.5 AC
CN=71
TOC=26

WS(KB)
1.10 AC
CN=78
TOC=8 MIN

WS(KA)
80 AC
CN=77
TOC=11 MIN

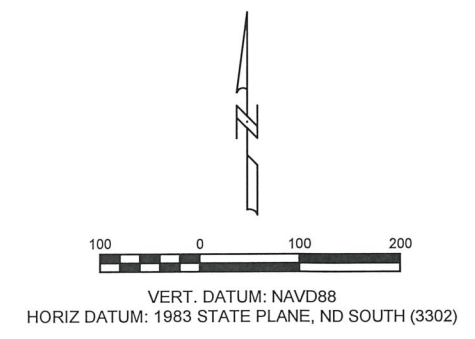
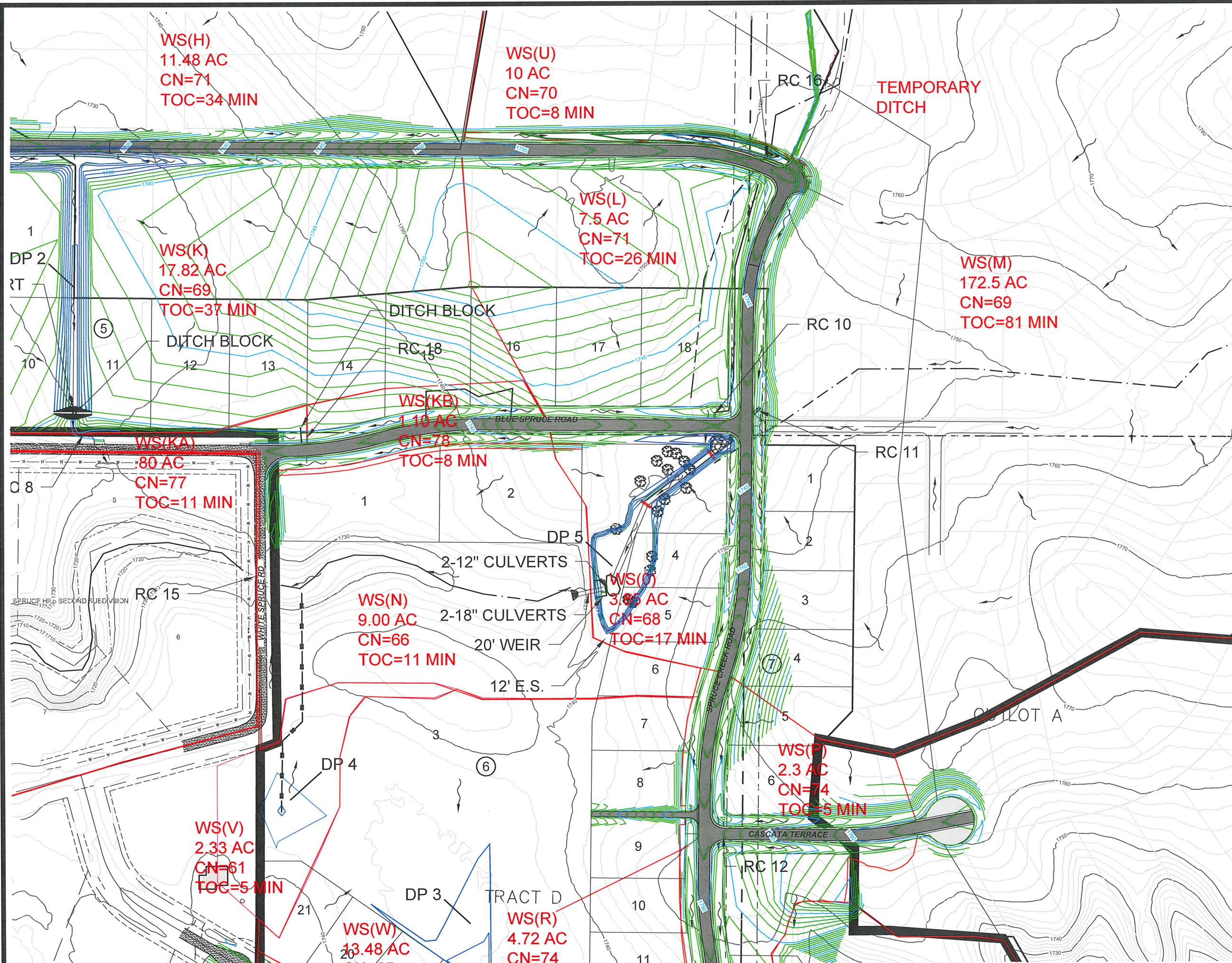
WSC3B
35.91 AC
CN=68
TOC=33 MIN

WS(N)
9.00 AC
CN=66
TOC=11 MIN

WS(O)
3.8 AC
CN=70
TOC=8 MIN

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PHASE 1 ROAD CULVERTS & WATERSHEDS
SUMMIT POINT 1ST SUBDIVISION
STORM WATER MANAGEMENT PLAN



- PROPOSED STORM MH
- PROPOSED ROADWAY
- PROPOSED STORM SEWER/CULVERTS
- PROPOSED ASPHALT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

WS(H)
 11.48 AC
 CN=71
 TOC=34 MIN

WS(U)
 10 AC
 CN=70
 TOC=8 MIN

TEMPORARY
 DITCH

WS(K)
 17.82 AC
 CN=69
 TOC=37 MIN

WS(L)
 7.5 AC
 CN=71
 TOC=26 MIN

WS(M)
 172.5 AC
 CN=69
 TOC=81 MIN

WS(KB)
 1.10 AC
 CN=78
 TOC=8 MIN

WS(KA)
 80 AC
 CN=77
 TOC=11 MIN

WS(N)
 9.00 AC
 CN=66
 TOC=11 MIN

WS(O)
 3.85 AC
 CN=68
 TOC=17 MIN

WS(P)
 2.3 AC
 CN=74
 TOC=5 MIN

WS(V)
 2.33 AC
 CN=61
 TOC=5 MIN

WS(W)
 13.48 AC
 CN=74

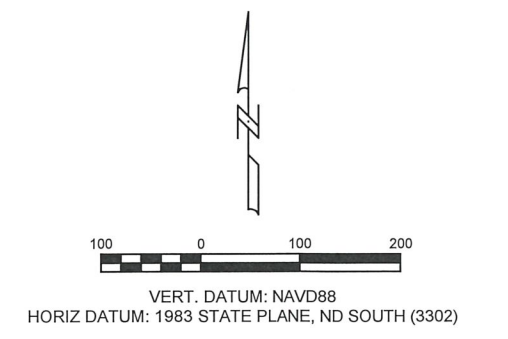
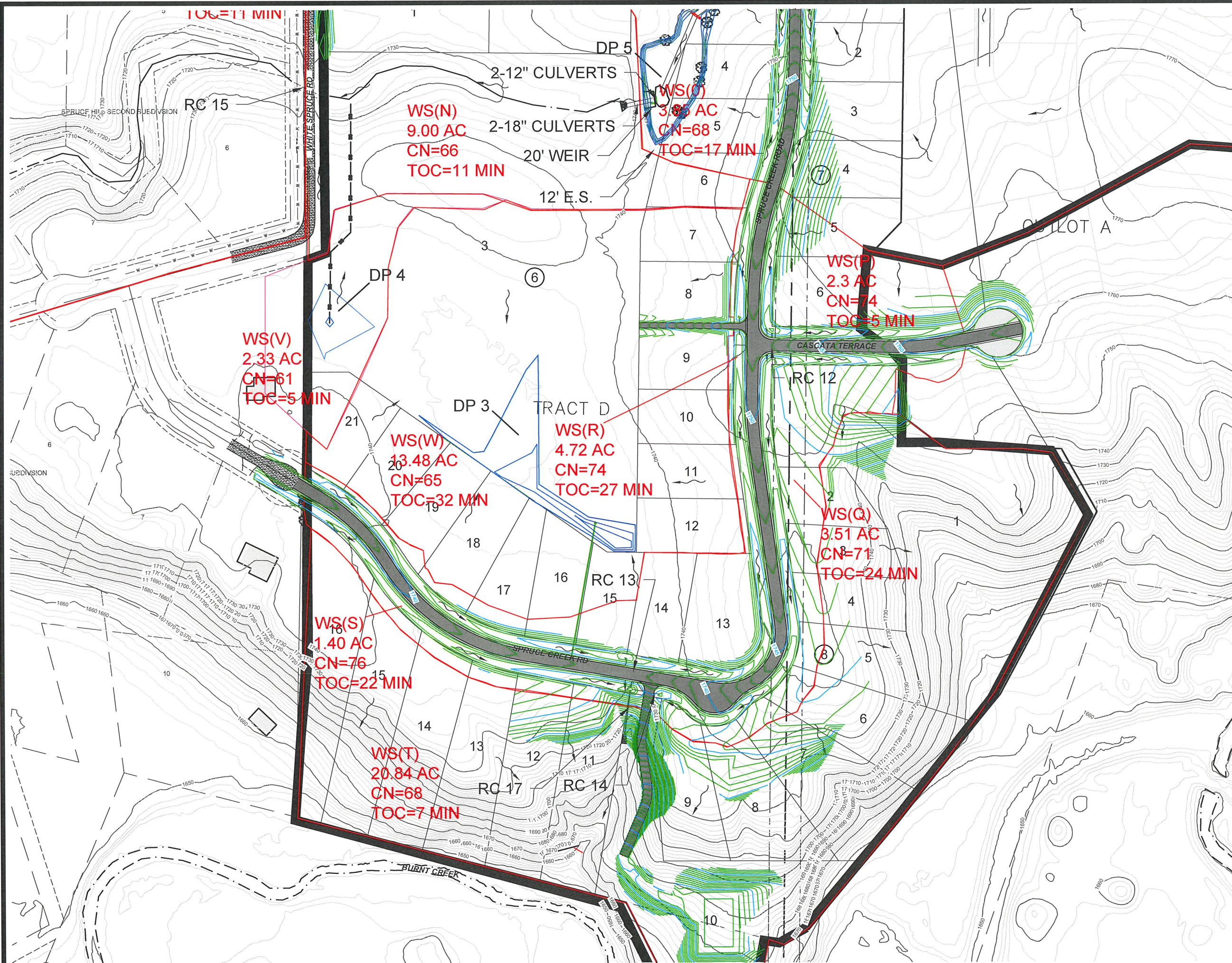
WS(R)
 4.72 AC
 CN=74


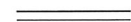




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PHASE 1 ROAD CULVERTS & WATERSHEDS
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN

BURLEIGH COUNTY, NORTH DAKOTA Page 102 of 204
 BCWRD June 2024

SHEET 6D JULY, 2022



-  PROPOSED STORM MH
-  PROPOSED ROADWAY
-  PROPOSED STORM SEWER/CULVERTS
-  PROPOSED ASPHALT
-  PROPOSED INDEX CONTOUR
-  PROPOSED INTERMEDIATE CONTOUR

WS(V)
2.33 AC
CN=61
TOC=5 MIN

WS(W)
13.48 AC
CN=65
TOC=32 MIN

WS(S)
1.40 AC
CN=76
TOC=22 MIN

WS(T)
20.84 AC
CN=68
TOC=7 MIN

WS(R)
4.72 AC
CN=74
TOC=27 MIN

WS(Q)
3.51 AC
CN=71
TOC=24 MIN

WS(O)
3.85 AC
CN=68
TOC=17 MIN

WS(P)
2.3 AC
CN=74
TOC=5 MIN



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PHASE 1 ROAD CULVERTS & WATERSHEDS
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STORM WATER MANAGEMENT PLAN

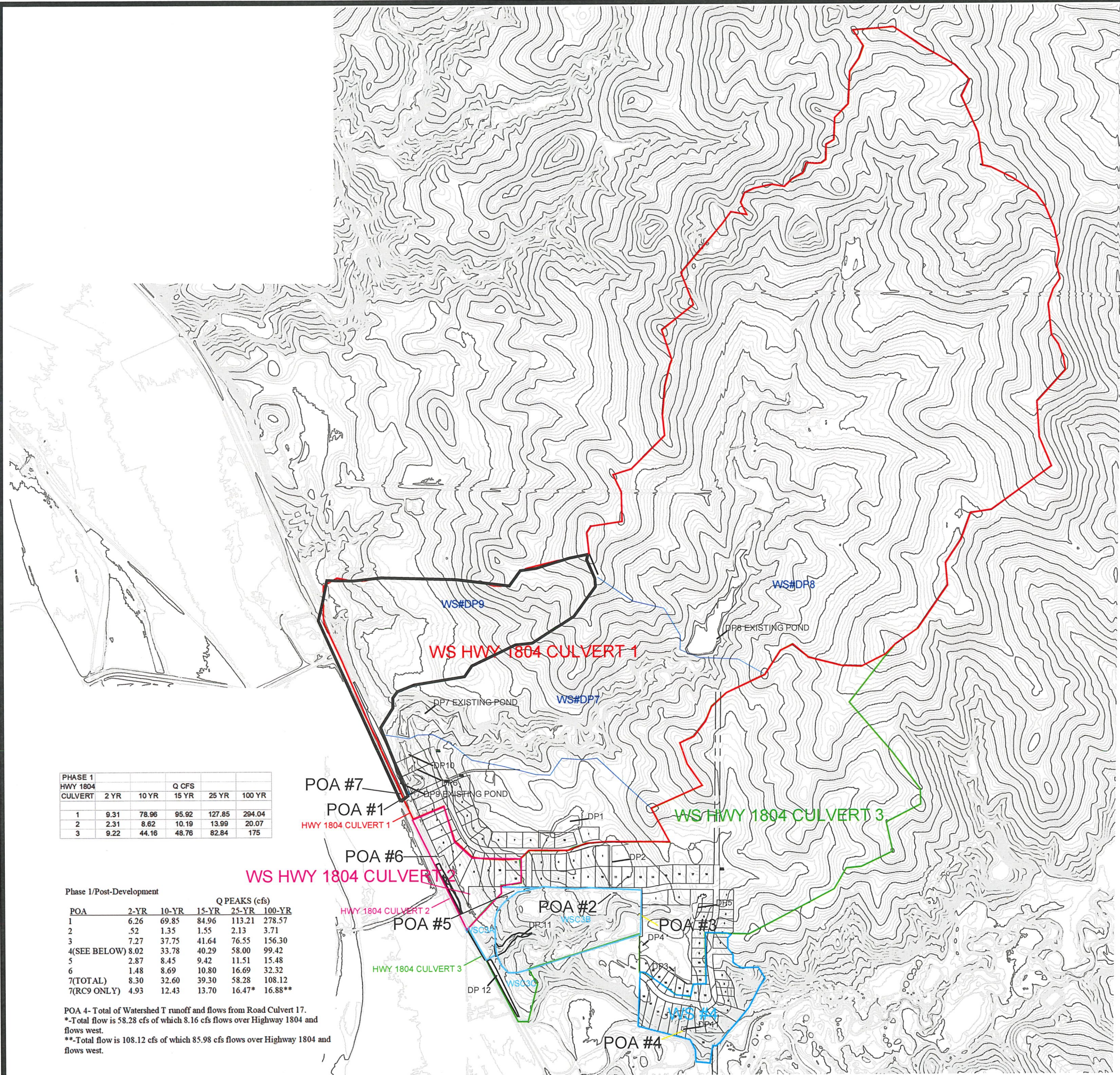
BURLEIGH COUNTY, NORTH DAKOTA
Page 103 of 204
BCWRD June 2024

SHEET 6E JULY, 2022



NO SCALE

VERT. DATUM: NAVD88
HORIZ DATUM: 1983 STATE PLANE, ND SOUTH (3302)



PHASE 1					
HWY 1804					
CULVERT	2 YR	10 YR	Q CFS	25 YR	100 YR
1	9.31	78.96	95.92	127.85	294.04
2	2.31	8.62	10.19	13.99	20.07
3	9.22	44.16	48.76	82.84	175

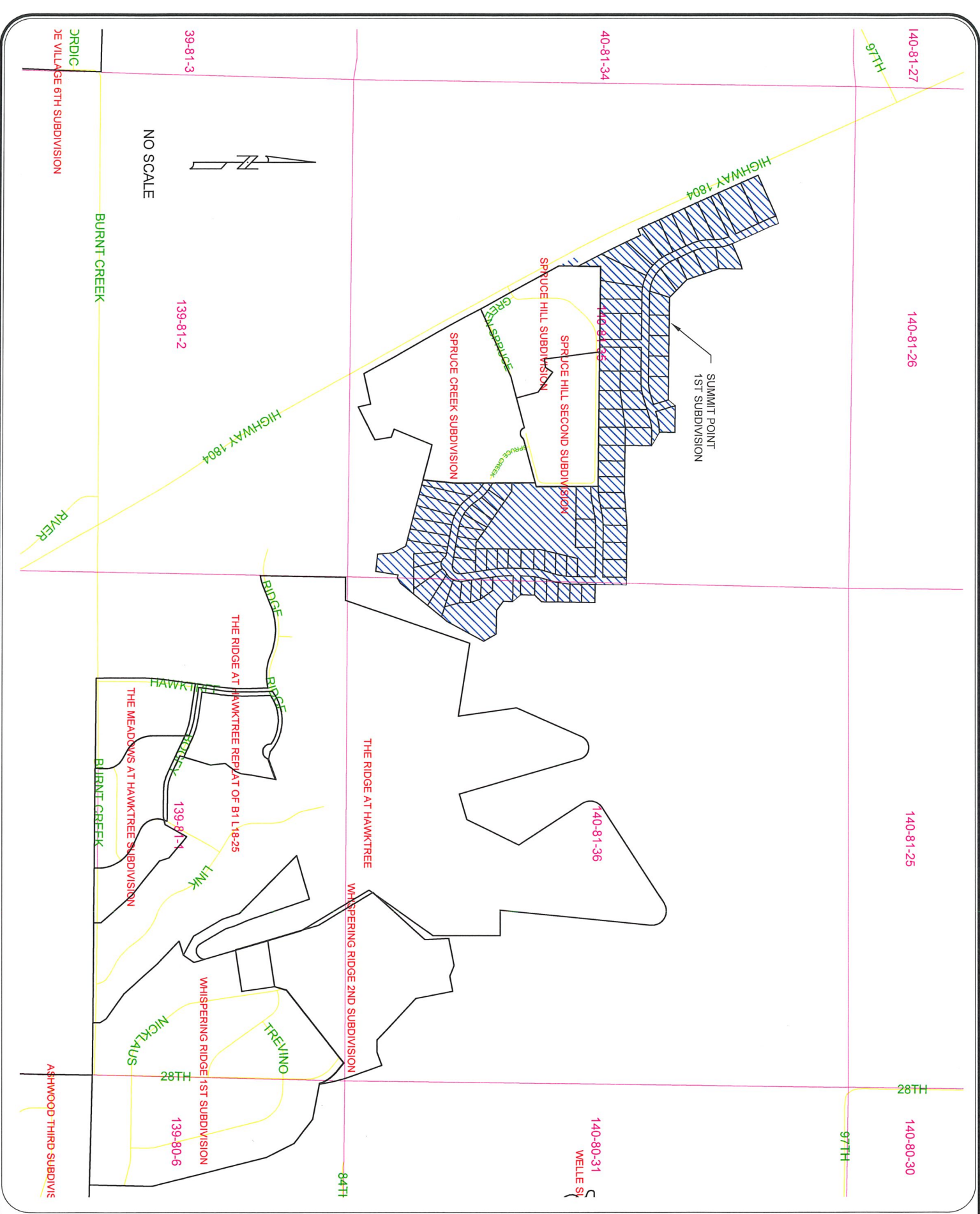
Phase 1/Post-Development					
POA	2-YR	10-YR	15-YR	25-YR	100-YR
1	6.26	69.85	84.96	113.21	278.57
2	.52	1.35	1.55	2.13	3.71
3	7.27	37.75	41.64	76.55	156.30
4(SEE BELOW)	8.02	33.78	40.29	58.00	99.42
5	2.87	8.45	9.42	11.51	15.48
6	1.48	8.69	10.80	16.69	32.32
7(TOTAL)	8.30	32.60	39.30	58.28	108.12
7(RC9 ONLY)	4.93	12.43	13.70	16.47*	16.88**

POA 4- Total of Watershed T runoff and flows from Road Culvert 17.
 *-Total flow is 58.28 cfs of which 8.16 cfs flows over Highway 1804 and flows west.
 **-Total flow is 108.12 cfs of which 85.98 cfs flows over Highway 1804 and flows west.



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PHASE 1 HIGHWAY 1804 CULVERTS
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN



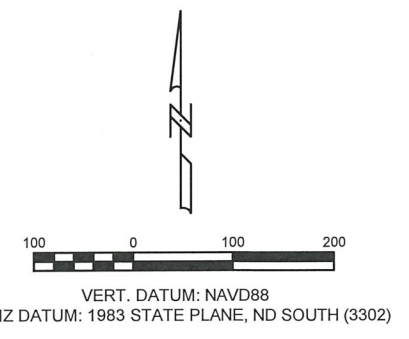
8 OF SHEETS

PROJECT: SUMMIT POINT 1ST SUBDIVISION SURROUNDING SUBDIVISIONS BURLEIGH COUNTY, ND

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Page 100 of 264
 Drawn By: JMD
 Date: 6/20/24

4468A



LEGEND

- PROPOSED STORM MH
- PROPOSED ROADWAY
- PROPOSED STORM SEWER
- PROPOSED ASPHALT
- PROPOSED SAN. MH (BY OTHERS)
- PROPOSED SAN. SEWER (BY OTHERS)
- PROPOSED FIBER ROLLS (SIZE VARIES)
- PROPOSED SILT FENCE
- EXISTING FLOW ARROW
- PROPOSED FLOW ARROW
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED RIP RAP or ROCK CHECK DAM
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

1. MAJOR GRADING SHALL BE COMPLETED BY GRADING CONTRACTOR. AREAS TO RECEIVE FILL SHALL BE SCARIFIED A MINIMUM OF 6" AND COMPACTED TO 90% DENSITY PRIOR TO PLACEMENT OF FILL. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. MOISTURE REQUIREMENTS SHALL BE NO MORE THAN 3% ABOVE OR BELOW OPTIMUM MOISTURE AS DETERMINED BY ASTM D-1557
2. PRIOR TO GRAVEL BASE PLACEMENT, THE PAVEMENT CONTRACTOR SHALL SCARIFY A MINIMUM OF 6" DEPTH AND COMPACT TO 90% DENSITY PRIOR TO PLACEMENT OF GRAVEL. MOISTURE REQUIREMENTS SHALL BE NO MORE THAN 3% ABOVE OR BELOW OPTIMUM MOISTURE AS DETERMINED BY ASTM D-1557
3. PRIOR TO ASPHALT PLACEMENT, THE EXISTING ASPHALT EDGES SHALL BE SAW CUT FULL DEPTH TO FORM A VERTICAL SURFACE, AND TACKED. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

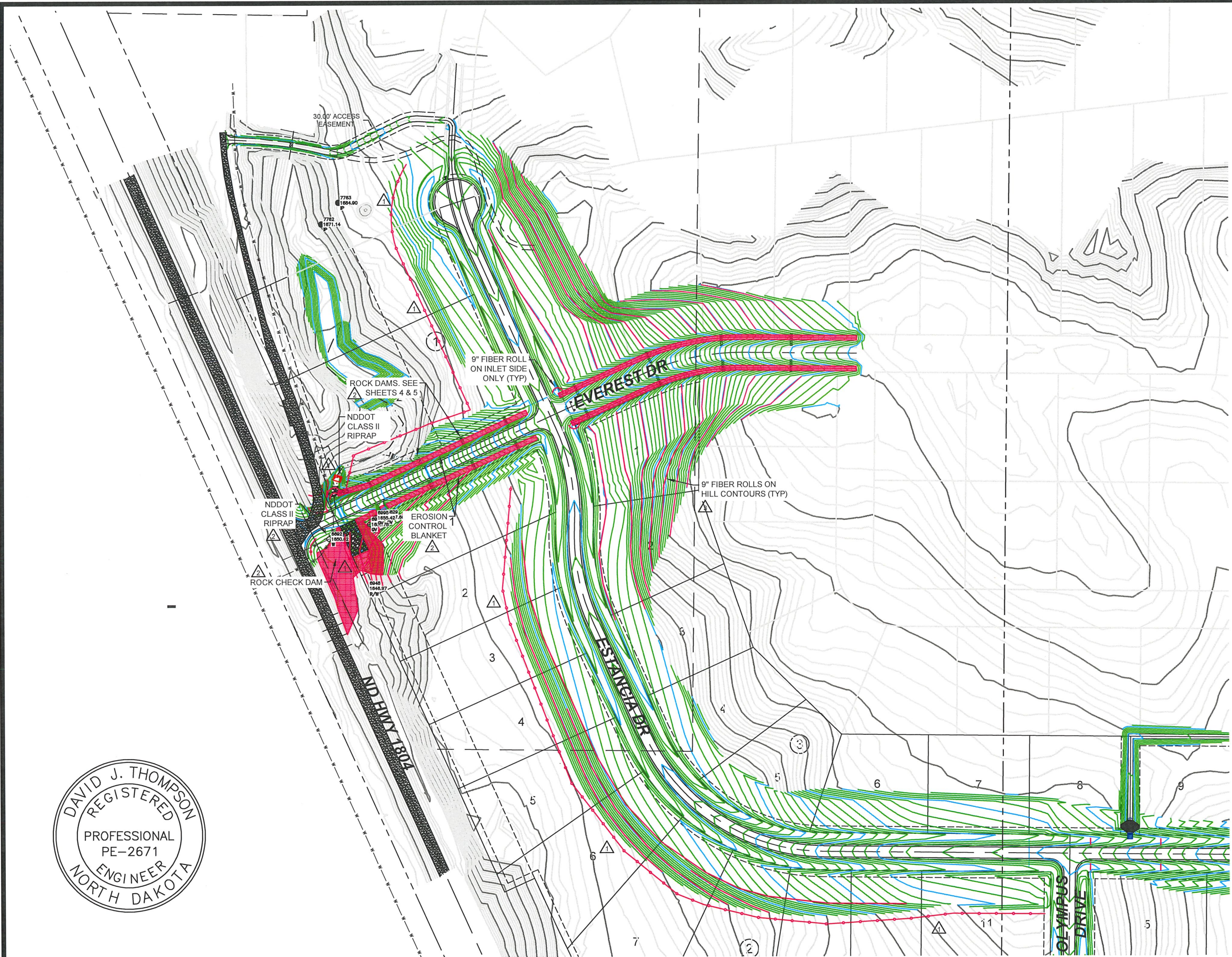
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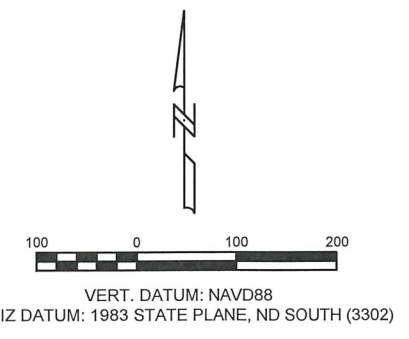
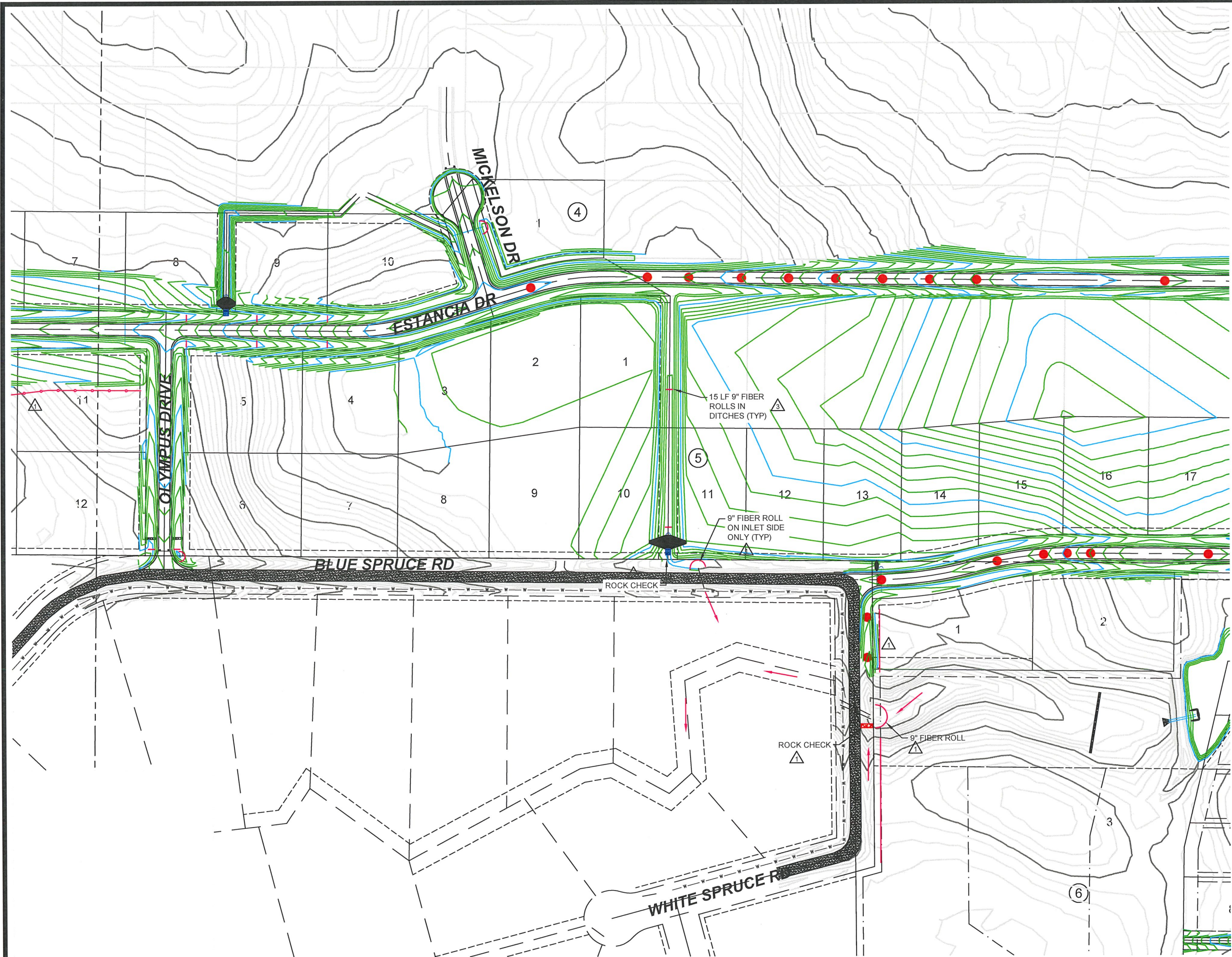
CAUTION
UTILITY LOCATIONS ARE APPROXIMATE.
CONTRACTOR IS RESPONSIBLE FOR
VERIFYING LOCATION PRIOR TO
EXCAVATION



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EROSION CONTROL PLAN
SUMMIT POINT 1ST SUBDIVISION
STORM WATER MANAGEMENT PLAN





- LEGEND**
- PROPOSED STORM MH
 - PROPOSED ROADWAY
 - PROPOSED STORM SEWER
 - PROPOSED ASPHALT
 - PROPOSED SAN. MH (BY OTHERS)
 - PROPOSED SAN. SEWER (BY OTHERS)
 - PROPOSED FIBER ROLLS (SIZE VARIES)
 - PROPOSED SILT FENCE
 - ← EXISTING FLOW ARROW
 - PROPOSED FLOW ARROW
 - PROPOSED EROSION CONTROL BLANKET
 - PROPOSED RIP RAP or ROCK CHECK DAM
 - ~ PROPOSED INDEX CONTOUR
 - ~ PROPOSED INTERMEDIATE CONTOUR

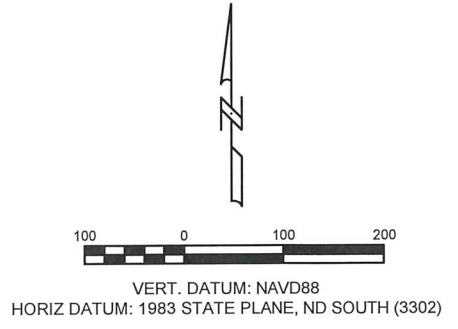
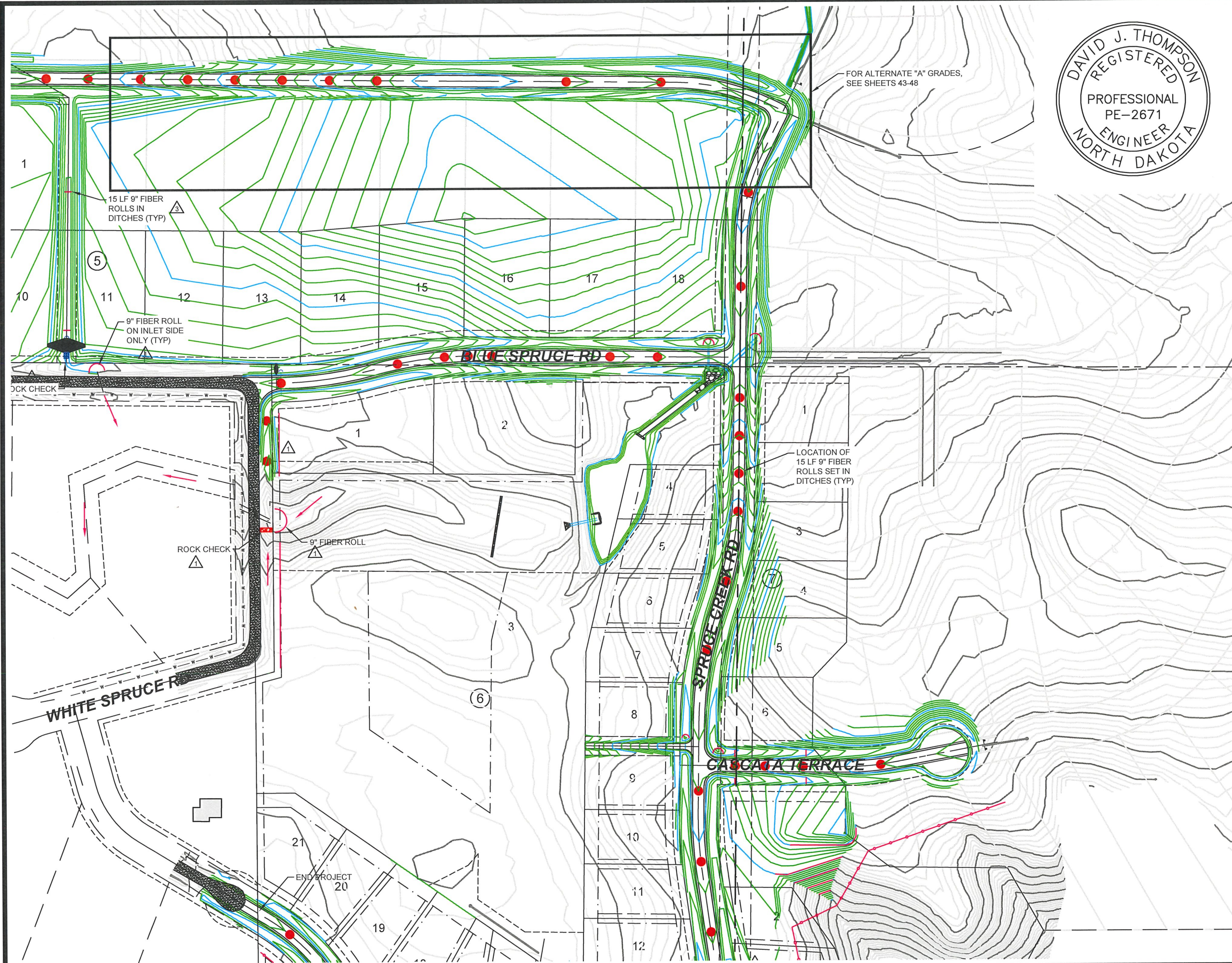
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- △ INITIAL
- △ INTERIM
- △ FINAL

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EROSION CONTROL PLAN
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN



LEGEND

- PROPOSED STORM MH
- PROPOSED ROADWAY
- PROPOSED STORM SEWER
- PROPOSED ASPHALT
- PROPOSED SAN. MH (BY OTHERS)
- PROPOSED SAN. SEWER (BY OTHERS)
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- PROPOSED RIP RAP or ROCK CHECK DAM
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

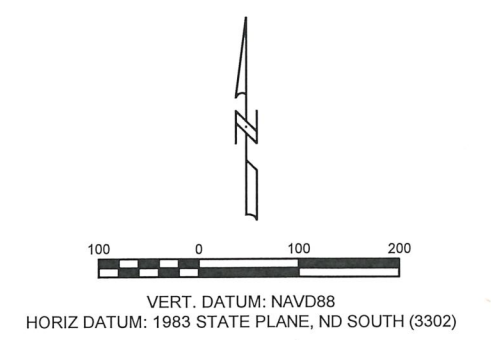
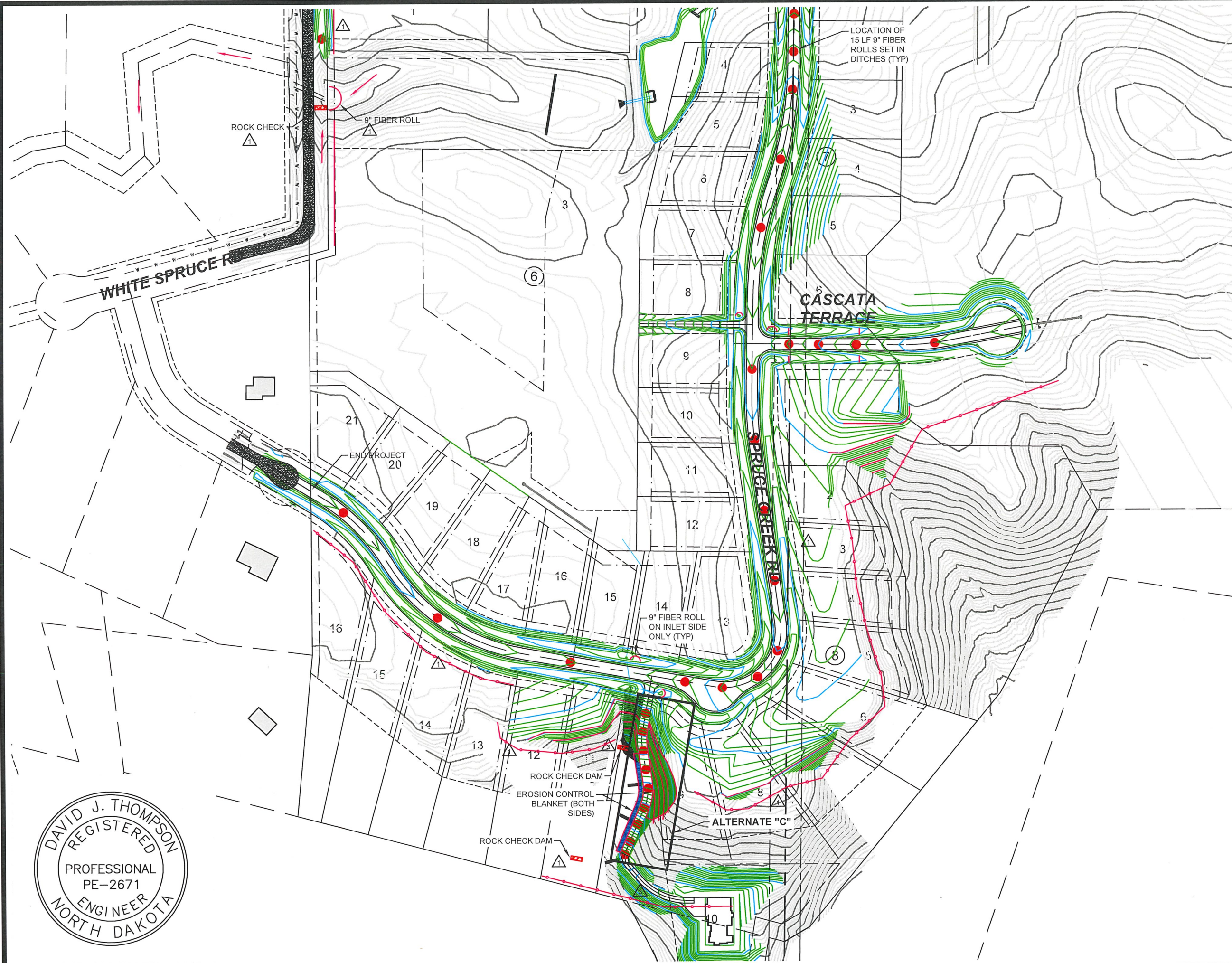
1. MAJOR GRADING SHALL BE COMPLETED BY GRADING CONTRACTOR. AREAS TO RECEIVE FILL SHALL BE SCARIFIED A MINIMUM OF 6" AND COMPACTED TO 90% DENSITY PRIOR TO PLACEMENT OF FILL. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. MOISTURE REQUIREMENTS SHALL BE NO MORE THAN 3% ABOVE OR BELOW OPTIMUM MOISTURE AS DETERMINED BY ASTM D-1557
2. PRIOR TO GRAVEL BASE PLACEMENT, THE PAVEMENT CONTRACTOR SHALL SCARIFY A MINIMUM OF 6" DEPTH AND COMPACT TO 90% DENSITY PRIOR TO PLACEMENT OF GRAVEL. MOISTURE REQUIREMENTS SHALL BE NO MORE THAN 3% ABOVE OR BELOW OPTIMUM MOISTURE AS DETERMINED BY ASTM D-1557
3. PRIOR TO ASPHALT PLACEMENT, THE EXISTING ASPHALT EDGES SHALL BE SAW CUT FULL DEPTH TO FORM A VERTICAL SURFACE, AND TACKED. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

- INITIAL
- INTERIM
- FINAL




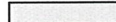










CAUTION
 UTILITY LOCATIONS ARE APPROXIMATE.
 CONTRACTOR IS RESPONSIBLE FOR
 VERIFYING LOCATION PRIOR TO
 EXCAVATION






TOMAN ENGINEERING
 501 1st Street NW, Mandan, ND 58554
 Phone: 701-663-6483 * Fax: 701-663-0923
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LEGEND

-  PROPOSED STORM MH
-  PROPOSED ROADWAY
-  PROPOSED STORM SEWER
-  PROPOSED ASPHALT
-  PROPOSED SAN. MH (BY OTHERS)
-  PROPOSED SAN. SEWER (BY OTHERS)
-  PROPOSED FIBER ROLLS (SIZE VARIES)
-  PROPOSED SILT FENCE
-  EXISTING FLOW ARROW
-  PROPOSED FLOW ARROW
-  PROPOSED EROSION CONTROL BLANKET
-  PROPOSED RIP RAP or ROCK CHECK DAM
-  PROPOSED INDEX CONTOUR
-  PROPOSED INTERMEDIATE CONTOUR

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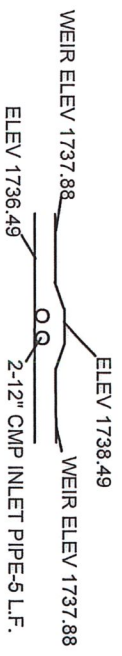
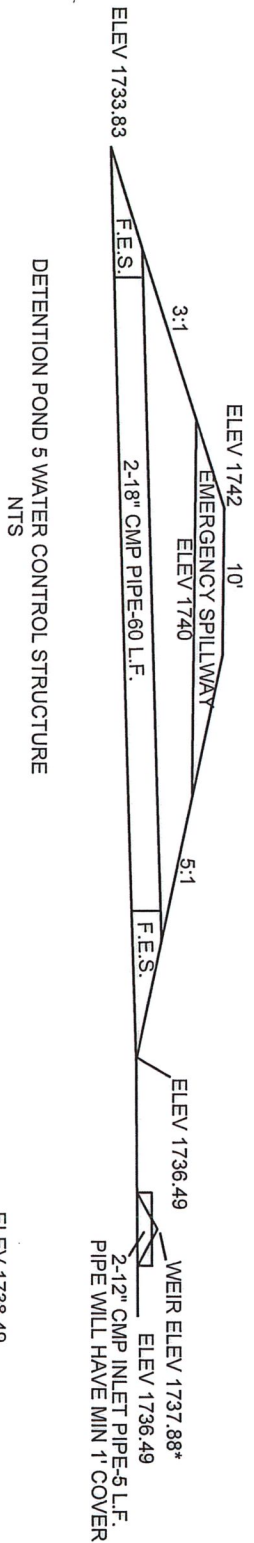
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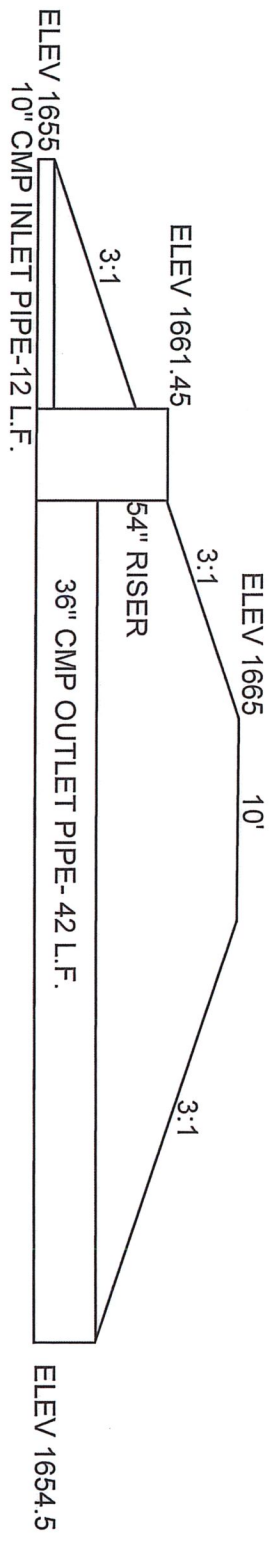
EROSION CONTROL PLAN
 SUMMIT POINT 1ST SUBDIVISION
 STORM WATER MANAGEMENT PLAN



DETENTION POND 5 WATER CONTROL STRUCTURE
NTS

WEIR ELEV 1737.88*
ELEV 1736.49
2-12" CMP INLET PIPE-5 L.F.
PIPE WILL HAVE MIN 1' COVER

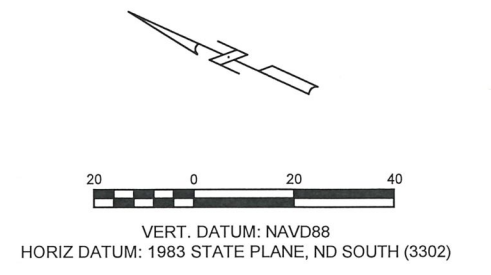
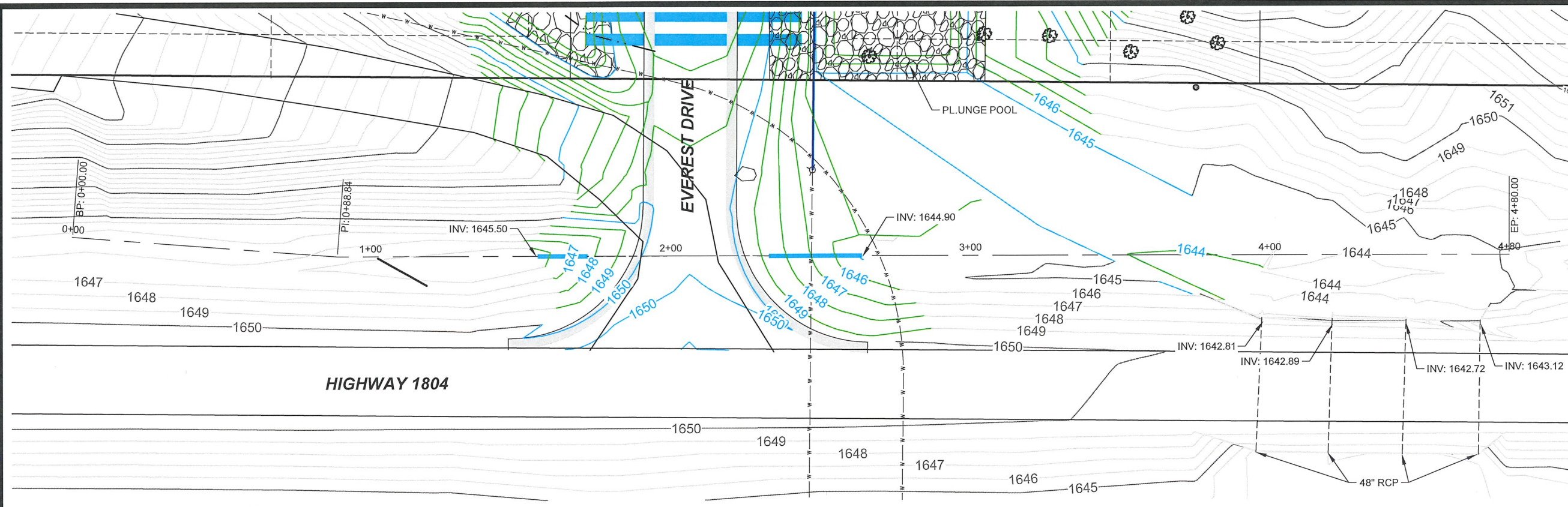
WEIR ELEV 1737.88
ELEV 1736.49
2-12" CMP INLET PIPE-5 L.F.



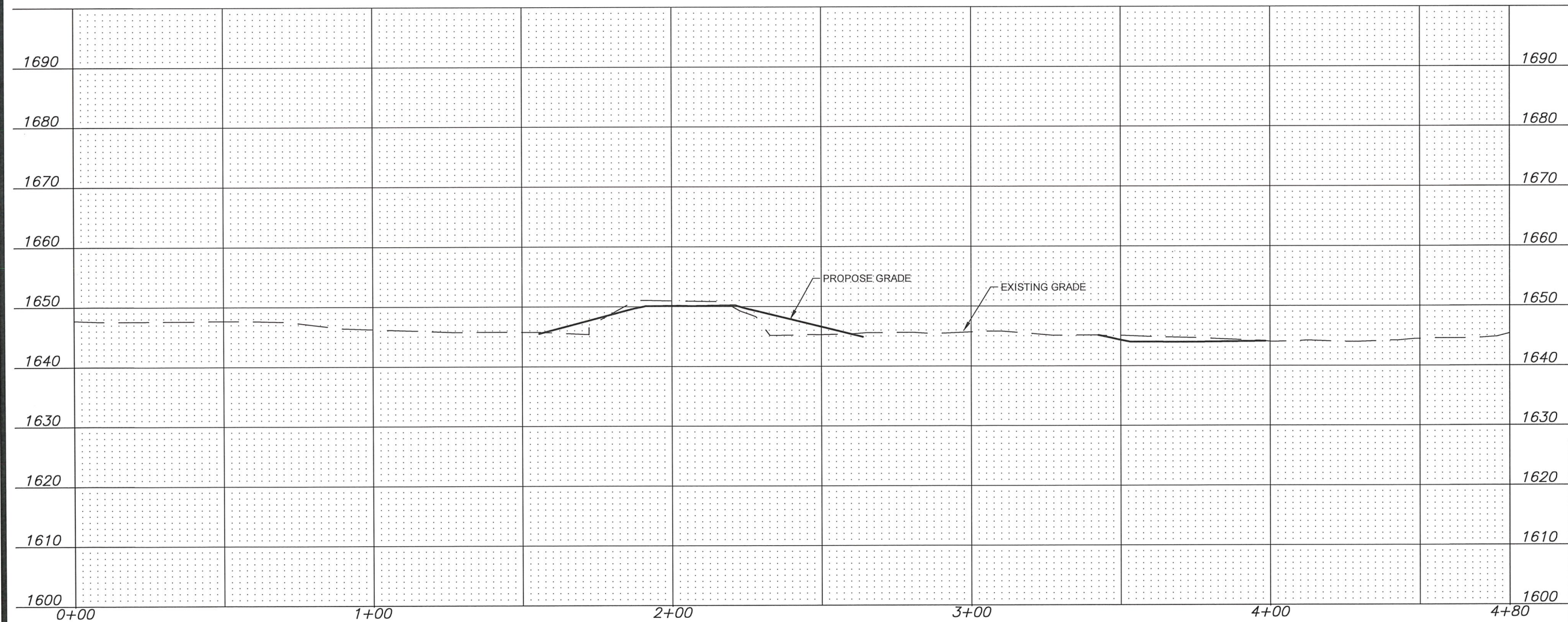
NOTE: THE UPSTREAM SIDE OF THE DAM WILL BE RIPRAPPED FROM THE RISER UP.
 NOTE: THE DOWNSTREAM SIDE OF THE DAM WILL BE RIPRAPPED.

DETENTION POND 10 WATER CONTROL STRUCTURE
 NTS





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HIGHWAY 1804 MODIFICATIONS
SUMMIT POINT 1ST SUBDIVISION
STORM WATER MANAGEMENT PLAN



Community Rating System

A Local Official's Guide to Saving Lives, Preventing Property Damage, and Reducing the Cost of Flood Insurance

FEMA B 573 / 2023

March 2023



FEMA

The Community Rating System Works

Every year, flooding causes hundreds of millions of dollars' worth of damage to homes and businesses around the country. Standard homeowners and commercial property insurance policies do not cover flood losses. To meet the need for this vital coverage, the Federal Emergency Management Agency (FEMA) administers the National Flood Insurance Program (NFIP).

The NFIP offers reasonably priced flood insurance to all properties in participating communities. To participate, communities must implement the NFIP's minimum floodplain management standards.

The NFIP's Community Rating System (CRS) credits community efforts beyond those minimum standards by providing discounts on flood insurance premiums for the community's property owners.

CRS discounts on flood insurance premiums range from 5% up to 45% (see Table 1), based on the participating community's CRS class. A community's CRS class is determined by credit points that are awarded to communities. The discounts provide an incentive for communities to implement additional flood protection activities that can help save lives and property when a flood occurs.

The CRS provides credit under 19 public information and floodplain management activities described in the CRS Coordinator's Manual.

You're probably already doing many of these activities. To get credit, community officials will need to prepare documentation that verifies these efforts.

The CRS assigns credit points for each activity. Table 2 lists the activities and the possible number of credit points for each one. The table also shows the average number of credit points communities earn for each activity. These averages may give you a better indication than the maximums of what your community can expect.

To be eligible for a CRS discount, your community must do Activity 310 (Elevation Certificates). If you're a designated repetitive loss community, you must also take the steps described in Section 502, Repetitive Loss Category. All other activities are optional.



The total number of points your community earns determined your CRS class. Your discount on flood insurance premiums is based on your CRS class.

For example, if your community earns 4,500 points or more, it qualifies for Class 1, and property owners get a 45% discount on their insurance

premiums. If your community earns as little as 500 points, it's in Class 9, and property owners get a 5% discount. If a community does not apply or fails to receive at least 500 points, it's in Class 10, and property owners get no discount.

Table 1, below, shows the number of points required for each class and the corresponding discount.

Table 1. How Much Discount Property Owners in Your Community Can Get

<i>CRS Class</i>	<i>CRS Discount</i>	<i>Credit Points Required</i>
1	45%	4,500+
2	40%	4,000–4,499
3	35%	3,500–3,999
4	30%	3,000–3,499
5	25%	2,500–2,999
6	20%	2,000–2,499
7	15%	1,500–1,999
8	10%	1,000–1,499
9	5%	500–999
10	0%	0–499

Table 2. What You Can Do to Get Credit

Series 300	Public Information	Maximum Points*	Average Points*
	This series credits programs that advise people about the flood hazard, flood insurance, and ways to reduce flood damage. The activities also provide data insurance agents need for accurate flood insurance rating.		
310	Elevation Certificates <ul style="list-style-type: none"> ▪ Have written procedures for managing floodplain-related certificates for new construction in the floodplain. (At a minimum, a community must maintain certificates for buildings built after the date of its CRS application.) ▪ Maintain a rate of 90% accuracy of all certificates. 	116	36
320	Map Information Service <ul style="list-style-type: none"> ▪ Provide Flood Insurance Rate Map information to those who inquire, and publicize this service. 	90	78
330	Outreach Projects <ul style="list-style-type: none"> ▪ Distribute outreach projects with messages about flood hazards, flood insurance, flood protection measures, and/or the natural and beneficial functions of floodplains. 	350	87
340	Hazard Disclosure <ul style="list-style-type: none"> ▪ Real estate agents advise potential purchasers of flood-prone property about the flood hazard. ▪ Regulations require notice of the hazard. 	80	15
350	Flood Protection Information <ul style="list-style-type: none"> ▪ The public library and/or community's website maintains references on flood insurance and flood protection. 	125	48
360	Flood Protection Assistance <ul style="list-style-type: none"> ▪ Give inquiring property owners technical advice on protecting their buildings from flooding, and publicize this service. 	110	59
370	Flood Insurance Promotion <ul style="list-style-type: none"> ▪ Assess flood insurance coverage in the community; promote flood insurance through meetings, technical assistance, brochures, or other means. 	220	40
Series 300 Total		1,091	392

* Maximum and average points are subject to change. See the *CRS Coordinator's Manual* for current information.

Series 400	Mapping & Regulations	Maximum Points*	Average Points*
	This series credits programs that limit floodplain development or provide increased protection to new and existing development.		
410	Floodplain Mapping <ul style="list-style-type: none"> ▪ Develop new flood elevations, floodway delineations, wave heights, or other regulatory flood hazard data for an area not mapped in detail by the flood insurance study. ▪ Have a more restrictive mapping standard. 	850	78
420	Open Space Preservation <ul style="list-style-type: none"> ▪ Guarantee that currently open public or private floodplain parcels will be kept free from development. ▪ Incentivize keeping the floodplain open with zoning restrictions, lot size requirements, or other regulations. 	2,870	471
430	Higher Regulatory Standards <ul style="list-style-type: none"> ▪ Limit new buildings and/or fill in the floodplain. ▪ Require freeboard. ▪ Require soil tests or engineered foundations. ▪ Require compensatory storage. ▪ Require coastal construction standards in AE Zones. ▪ Have regulations tailored to protect critical facilities or areas subject to special flood hazards such as alluvial fans, ice jams, subsidence, coastal erosion. 	2,462	272
440	Flood Data Maintenance <ul style="list-style-type: none"> ▪ Keep flood and property data on computer records. ▪ Use better base maps. ▪ Maintain elevation reference marks. 	222	127
450	Stormwater Management <ul style="list-style-type: none"> ▪ Regulate new development throughout the water- shed to ensure that post-development runoff is no greater than pre-development runoff. ▪ Regulate new construction to minimize soil erosion and protect or improve water quality. 	755	110
Series 400 Total		7,159	1,058

Series 500	Flood Damage Reduction	Maximum Points*	Average Points*
	This series credits programs that reduce the flood risk to existing development.		
510	<p>Floodplain Management Planning</p> <ul style="list-style-type: none"> ▪ Using a standard planning process, prepare, adopt, implement, and update <ul style="list-style-type: none"> ○ a comprehensive flood hazard mitigation plan, and/or ○ a plan to protect natural functions within the community's floodplain, and/or ○ a plan for managing substantial flood damage to properties in the community, and/or ○ a plan to conserve and/or recover threatened and endangered species in the floodplain. ▪ Prepare an analysis of the repetitive flood loss areas within the community. <p><i>Note: Category C repetitive loss communities must receive credit for either the floodplain management plan or the repetitive loss area analysis, above.</i></p>	762	197
520	<p>Acquisition & Relocation</p> <ul style="list-style-type: none"> ▪ Acquire and/or relocate floodprone buildings so that they are out of the floodplain, and the floodplain remains open 	2,250	176
530	<p>Flood Protection</p> <ul style="list-style-type: none"> ▪ Protect existing floodplain development by floodproofing, elevation, or minor flood control projects. 	1,600	64
540	<p>Drainage System Maintenance</p> <ul style="list-style-type: none"> ▪ Have a program for and conduct annual inspections of all channels and detention basins; remove debris as needed 	470	203
Series 500 Total		5,082	640

Series 600	<i>Flood Preparedness</i>	Maximum Points*	Average Points*
	This series credits emergency services and flood warning and response programs that save lives and protect property		
610	Flood Warning and Response <ul style="list-style-type: none"> ▪ Provide early flood warnings to the public, and have a detailed flood response plan keyed to flood crest predictions. ▪ Incorporate substantial damage assessments into flood response operations. 	365	266
620	Levees <ul style="list-style-type: none"> ▪ Annually inspect and maintain existing levees; have a system for recognizing the threat of levee failure and/or overtopping, disseminating warnings, and providing emergency response; and coordinate with operators of critical facilities. 	235	111
630	Dams <ul style="list-style-type: none"> ▪ Have a high-hazard-potential dam that could affect the community; have a system for recognizing the threat of dam failure, disseminating warnings, planning and practicing emergency responses; and coordinating with operators of critical facilities. 	160	38
Series 600 Total		760	415
Total for All Series		14,092	2,505



Additional Credit

Your community can get additional credit for regulating development outside the Special Flood Hazard Area (SFHA) to the same standards as development inside the SFHA. There is also credit for assessing future flood conditions, including the impacts of future development, urbanization, sea level rise, and changing weather patterns. See the *CRS Coordinator's Manual* for full details.

Many communities can qualify for what the CRS calls “state-based credit,” based on the activities or regulations a state or regional agency implements within communities. For example, some states have disclosure laws eligible for credit under Activity 340 (Hazard Disclosure). Any community in those states can receive the state-based credit.

Your community may want to consider floodplain management activities not listed in the *CRS Coordinator's Manual*. You should evaluate these activities for their ability to increase public safety, reduce property damage, avoid economic disruption and loss, and protect the environment. In addition, you can request a review of these activities to determine whether they could be eligible for CRS credit. FEMA welcomes innovative ways to prevent or reduce flood damage.



How to Apply

Participation in the CRS is voluntary. If your community is in full compliance with the minimum floodplain management standards of the NFIP, you may apply. There's no application fee, and all CRS publications are free.

Your community's chief executive officer (your mayor, city manager, or other top official) must appoint a CRS Coordinator to serve as the liaison between the community and FEMA. The coordinator should know the operations of all departments that deal with floodplain management and public information. And the coordinator should be able to speak for the community's chief executive officer.

To begin the application process, your community submits a letter of interest to your FEMA Regional Office and documents that you are implementing floodplain management activities that warrant at least 500 CRS credit points. On the CRS website (<https://www.fema.gov/community-rating-system>) you can find a sample letter; the CRS Quick Check, a tool that helps you assess your community's possible credit points; and further instructions.

You may also want to download from that website a copy of the *CRS Coordinator's Manual*, along with its *Addendum*. These two documents describe the program in full and provide specific information, including eligible activities, required documentation, and resources for assistance.

After your community applies for a CRS classification, the CRS will verify the information and arrange for flood insurance premium discounts.

Help is available through the contact information below.

- CRS-related materials and many more resources are available at <https://www.fema.gov/community-rating-system>.
- For more information, email <mailto:fema-crs@fema.dhs.gov> or nfipcrs@iso.com.



TO: Burleigh County Commission

FROM: Mitch Flanagan, Director, Building/Planning/Zoning

DATE: May 14, 2024

REQUEST: Contract Community Rating System Application Development

Action Requested

Review Community Rating System incentive program.

Background

Participation in the Community Rating System was reviewed by the previous Planning Director; however, lack of availability prevented completion of an application. Functions of the Department have continued to increase; however, there is an opportunity to contract out for the development of the application. The proposal would be a cost share between the Emergency Management Department and Water Resource District Board budgets to contract the application development for a cost up to \$20,000. A successful application would yield a flood insurance discount for policy holders. The program would be maintained through the Building/Planning/Zoning Department.

Recommendation

Approve application development for the Community Rating System through a cost share between Emergency Management and the Water Resource District Board.

National Flood Insurance Program Community Rating System

The Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management practices that exceed the minimum requirements of the National Flood Insurance Program (NFIP). Over 1,500 communities participate nationwide.

In CRS communities, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community’s efforts that address the three goals of the program:

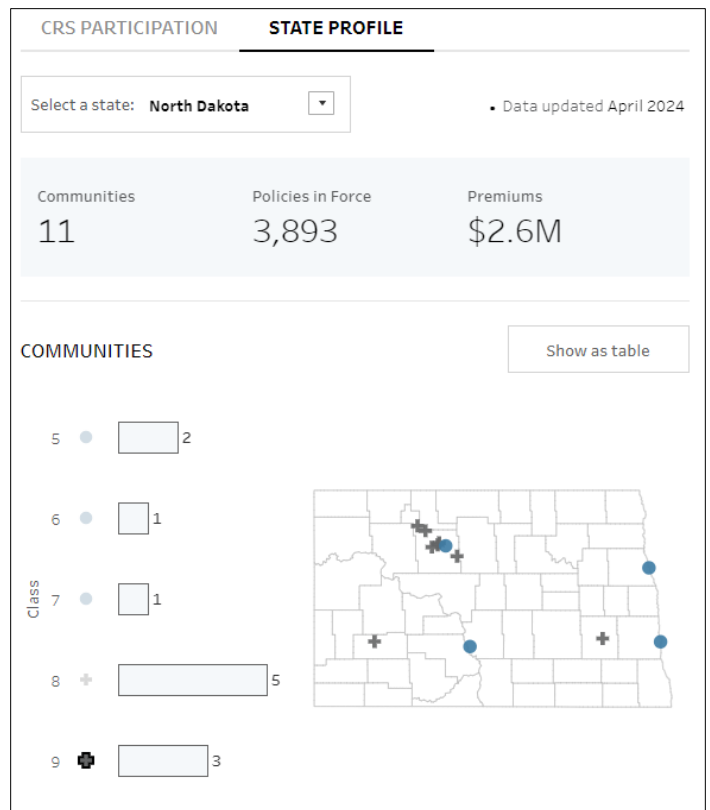
1. Reduce and avoid flood damage to insurable property
2. Strengthen and support the insurance aspects of the National Flood Insurance Program
3. Foster comprehensive floodplain management

Burleigh County (outside Bismarck’s ETA)

Policies in Force	165
Value of Insured Properties	\$49,138,000
Total Annual Premiums	\$144,694
Target Class 8 (10% Reduction)	\$14,470 Annual Savings

CRS Eligible Communities April 1, 2024 Effective Date

Community	Original Effective Date	Current Effective Date	CRS Class	% Discount
Bismarck, City of	10/1/2017	4/1/2023	7	15
Burlington, City of	5/1/2017	10/1/2023	9	5
Burlington, Township of	5/1/2017	5/1/2017	8	10
Carpio, City of	5/1/2017	10/1/2023	8	10
Dickinson, City of	5/1/2018	5/1/2018	9	5
Donnybrook, City of	5/1/2017	10/1/2023	8	10
Fargo, City of	5/1/2006	10/1/2017	5	25
Grand Forks, City of	10/1/1991	10/1/2003	5	25
Minot, City of	10/1/2016	4/1/2022	6	20
Sawyer, City of	5/1/2017	10/1/2023	8	10
Valley City, City of	5/1/2017	5/1/2017	9	5
Ward County	5/1/2017	10/1/2023	8	10



(Source: <https://www.fema.gov/floodplain-management/community-rating-system#visualizations>)

FEMA Community Rating System Opportunity Burleigh County (outside Bismarck's ETA)

Policies In Force (PIF)	165	Not sure if the smaller participating communities (Lincoln, etc.. for which BC administers their program) are included.
Value of Insured Properties	=	\$49,138,000
Annual Savings at 5%	=	\$7,234.70 - Based on a Class 9 designation (500-900 points)
Total Annual Premiums	=	\$144,694
Target should be a Class 8	=	10% Reduction \$14,470 annual savings

Securing a – **Class 7** (15%) would require more effort and may not be economical, as it may also require additional management activities that have an increased cost.

Items of note:

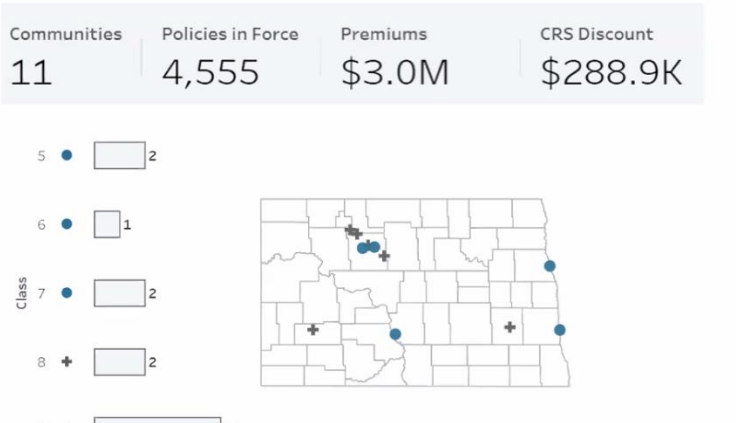
1. The Burleigh County floodplain program will have to undergo an audit to insure there are no outstanding issues such as violations or unresolved enforcement actions.
2. The policy data above was secured from the ND Department of Water Resources.
3. Flood insurance premiums are on the increase, therefore net savings will increase.
4. Annual maintenance is typically reporting, and should not be a significant time requirement as long as records are maintained throughout the year.
5. Full program status is reviewed every 5 years, so that requires updates and/or additions.
6. Savings are every year, so the anticipated \$17,000 application cost is a long term investment. One budgetary concern is the typical back and forth process with a federal agency.
7. Application information is mostly available through Burleigh County Planning and Zoning, Emergency Management, BCWRD (projects), BCHD (emergency response plans) and NDDWR. Not all activities qualify for points, so each needs to be considered in the application process to limit effort to viable elements.

The following are CRS Classification, Discounts, Policies and Premiums for other ND Communities:


Community Rating System

Community	Class	Discount	PIF	Premiums
FARGO	5	\$139,963	2,078	\$1,351,857
MINOT	6	\$72,443	1,271	\$758,562
BISMARCK	7	\$31,772	446	\$364,396
GRAND FORKS	5	\$28,095	414	\$278,583
VALLEY CITY	9	\$6,783	109	\$133,796
WARD COUNTY	7	\$6,471	131	\$77,665
BURLINGTON	8	\$2,131	74	\$43,196
DICKINSON	9	\$959	20	\$18,223
SAWYER	9	\$163	9	\$4,804
CARPIO	9	\$66	1	\$1,257
DONNYBROOK	9	\$46	2	\$879

Communities	Policies in Force	Premiums	CRS Discount
11	4,555	\$3.0M	\$288.9K



The chart shows progress for classes 5 through 9. Class 5 has 2 points, Class 6 has 1 point, Class 7 has 2 points, Class 8 has 2 points, and Class 9 has 5 points. A map of North Dakota shows the locations of these communities with blue dots for Class 5, 6, 7, and 8, and grey crosses for Class 9.



Federal Emergency Management Agency

North Dakota
Water Resource
Districts Association

JACK P. DWYER, EXECUTIVE SECRETARY
701-730-5469 (c) • jack@ndwaterlaw.com
P.O. Box 2254 • Bismarck, North Dakota 58502
701-223-4615 (o) • staff@ndwater.net

MEMO: May 17, 2024
TO: North Dakota Water Leaders
FROM: Harold Gaugler, President
RE: 2024 Joint Summer Water Meeting

The 2024 North Dakota Water Resource Districts Association and North Dakota Water Users Association Joint Summer Water Meeting is for scheduled **July 9-11 in Minot.**

Please see the attached agenda for full details on the many meetings that will be included during this year's conference. The conference sessions will focus on parliamentary procedure as well as an update on the Northwest Area Water Supply project. The sessions fulfill water manager training requirements. The conference will conclude with a tour of the Mouse River flood control project.

You are encouraged to attend the State Water Commission's Commissioner Hosted Basin meeting on the afternoon of the 10th. This is an opportunity for Mouse River Basin Commissioner, Jason Zimmerman, and Department of Water Resources staff to hear about local water projects and issues ahead of the 2025 legislative session.

A block of rooms has been reserved for July 8-10 with a negotiated room rate of \$99.00 plus tax per night. For reservations, call the Sleep Inn & Suites in Minot at 701-837-3100 and reference the North Dakota Water room block. The room reservation deadline is **June 17.**

If you have any questions, contact Julie Ellingson at 701-223-4615 or jellingson@ndwater.net.

We hope that you will make plans to attend this informative event.

Joint Summer Water Meeting

July 9-11, 2024

Sleep Inn & Suites

Minot, North Dakota

TUESDAY, JULY 9

- 2:30 p.m. – 5:00 p.m. Registration - *Banquet Lobby*
- 4:00 p.m. – 5:30 p.m. N.D. Water Coalition Meeting - *Sunrise Board Room*
- 6:00 p.m. – 8:00 p.m. N.D. Water Resource Districts Association Board of Directors Meeting - *North Board Room*

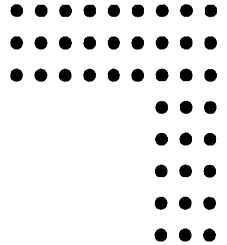
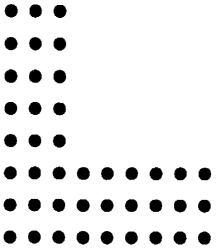
WEDNESDAY, JULY 10

- 7:00 a.m. Breakfast - *North Convention Center*
- 7:30 a.m. – 2:00 p.m. Registration - *Banquet Lobby*
- 8:00 a.m. – 11:00 a.m. Mastering Meeting Management: Navigating Governance & Parliamentary Procedure - *Katie Tyler and Jodi Bruns, NDSU - South Convention Center*
- 11:15 a.m. – Noon Northwest Area Water Supply Project Update - *N.D. Department of Water Resources - South Convention Center*
- 12:15 p.m. – 1:30 p.m. Lunch - *North Convention Center*
- 1:45 p.m. – 2:45 p.m. Legislative Update - *Jack Dwyer, N.D. Water Resource Districts Association - South Convention Center*
- 3:00 p.m. Mouse River SWC Commissioner Hosted Basin Meeting - *Sunrise Board Room*
- 5:00 p.m. – 7:00 p.m. Social - *North Convention Center*

DINNER ON YOUR OWN

THURSDAY, JULY 11

- 7:00 a.m. Breakfast - *North Convention Center*
- 7:00 am. – 8:30 a.m. N.D. Water Users Association Board of Directors Meeting - *North/South Board Room*
- 8:45 a.m. Load for tour - *Main Entrance Canopy*
- 9:00 a.m. – 3:30 p.m. N.D. Water Education Foundation's *Small But Mighty Tour*
- 4:00 p.m. Souris River Joint Board Meeting - *North/South Board Room*



2024 Joint Summer Water Meeting

N.D. Water Resource Districts Association
and N.D. Water Users Association

July 9-11, 2024

Sleep Inn & Suites, Minot, ND

REGISTRATION FORM

Please register by **July 1** if you and any guests plan on participating in this meeting, the tour, or meals.

While we will make every effort to accommodate additional attendees, we cannot guarantee that on-site registrations (including additional guests) will be able to be accommodated with meals or the tour.

Name(s) _____

Representing _____ E-mail _____

Address _____

City _____ State _____ Zip _____ Phone _____

<u>#</u>	<u>Cost</u>	<u>Total</u>
_____	\$190	Registration includes ALL meals, speakers, breaks, and tour.
_____	\$105	Registration Only - includes speakers and panels. DOES NOT INCLUDE MEALS AND TOUR.

Additional Guest Tickets _____

- _____ \$20 Additional person(s) for Wednesday breakfast (spouses and guests)
- _____ \$35 Additional person(s) for Wednesday luncheon (spouses and guests)
- _____ \$20 Additional person(s) for Thursday breakfast (spouses and guests)
- _____ \$30 Additional person(s) for Thursday *Small But Mighty* tour (spouses and guests)

Thursday, July 11 Tour _____

_____ How many registrants will attend the Thursday Tour (Transportation provided)

_____ Please check here if you are **NOT** attending the Thursday Tour

TOTAL \$ _____ Send completed form and check to:

North Dakota Water Resource Districts Association
PO Box 2254
Bismarck, ND 58502-2254

Hotel Reservations: A block of rooms has been reserved for July 8-10 with a negotiated room rate of \$99.00 plus tax per night. For reservations, call the Sleep Inn & Suites in Minot at 701-837-3100 and reference the **North Dakota Water room block**. The room reservation deadline is **June 17**.

Registration Cancellation Policy: A \$50 administrative fee will be charged on all requests for registration refunds received before **June 24**. There will be no refunds for cancellations received after **June 24**.

2024 WATER COMMISSIONER-HOSTED BASIN MEETING SCHEDULE

James River – Commissioner Connie Ova

City Hall - Lower-Level Conference Room
102 3rd Ave SE, Jamestown, ND 58401
Monday, June 17, 10:00 AM

Upper Red River – Commissioner April Walker

Dr. James Carlson Library
2801 32nd Ave S, Fargo, ND 58103
Monday, June 17, 3:00 PM

Lower Red River – Commissioner Michael Anderson

City Council Chambers
255 N 4th St, Grand Forks, ND 58203
Tuesday, June 18, 9:00 AM

Devils Lake – Commissioner Jeff Frith

Lake Region State College - Chautauqua Gallery
1801 College Dr. N, Devils Lake, ND 58301
Tuesday, June 18, 3:00 PM

Lower Missouri River – Commissioner Jay Volk

Bank of North Dakota - Lewis and Clark Room
1200 Memorial Hwy, Bismarck, ND 58504
Monday, June 24, 3:00 PM
[\(Virtual Option Available\)](#)
Or call in: +1 701-328-0950,,778574517#
Phone Conference ID: 778 574 517#

Upper Missouri River – Commissioner Gene Veeder

Four Bears Casino and Lodge - Sanish Room
202 Frontage Rd, New Town, ND 58763
Thursday, June 27, 10:00 AM

Little Missouri, Upper Heart, & Upper Cannonball – Commissioner James Odermann

Stark-Billings NDSU Extension Office
2680 Empire Rd, Dickinson, ND 58601
Thursday, June 27, 3:00 PM (MT)

Mouse River – Commissioner Jason Zimmerman

Sleep Inn and Suites Conference Center – Sunrise Board Room
2400 10th St SW, Minot, ND 58701
Wednesday, July 10, 3:00 PM

AGENDA

2024 State Water Commissioner-Hosted Basin Meetings

June & July 2024

- I. Welcome & Introductions (Commissioners)
- II. NDCC 61-02-01.3 – SWC Hosted Meetings (Commissioners)
- III. DWR Updates (DWR)
 - a. 2023-2025 Agency Budget Update
 - b. 2025 Budget Guidelines
 - c. 2025 Water Development Planning Process
 - d. Other DWR Updates
- IV. Project Summaries from Sponsors or Public Comments (Approx. 5 Minutes Per Speaker) (Commissioners)
- V. Concluding Remarks (Commissioners)

Registration - *Everyone is Welcome!*

Name: _____
 Representing: _____
 Mailing Address: _____
 City: _____
 State/Province: _____
 Zip/Postal Code: _____
 Phone: _____
 E-mail: _____
 Special Needs: _____

*Tour registration fees are non-refundable and must be received one week prior to the tours.
 A confirmation letter outlining the schedule and departure location will be sent to registrants one week prior to each tour.*

Please indicate the number of people attending each tour:

- ___ From Pivots to Potatoes: **Tuesday, June 11**
- ___ Devils Lake Basin Tour: **Thursday, June 20**
- ___ Hidden Gems of the Northeast: **Tuesday, June 25**
- ___ Small But Mighty: **Thursday, July 11**
- ___ Quality Water in the Southwest: **Wednesday, July 31**

Total people _____ \$30/person per tour = Total \$ _____

Return this form and payment to:
 PO Box 2254, Bismarck, ND 58502
 Make check payable to **NDWEF**

For more information contact:
 North Dakota Water Education Foundation
 (701) 223-8332 • jellingson@ndwater.net



North Dakota Water
 Education Foundation
 PO Box 2254
 Bismarck, ND 58502

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*****AUTO**ALL FOR AADC 585
 BURLEIGH COUNTY WRD
 PO Box 1255
 Bismarck ND 58502-1255

6
5

North Dakota Water Education Foundation **2024 Water Tours**

2024 Water Tour Sponsors

- AE2S
- Apex Engineering Group
- Bartlett & West
- Devils Lake Basin
Joint Water Resource Board
- Ellingson Companies
- Garrison Diversion Conservancy District
- Hess Corporation
- Houston Engineering, Inc.
- Image Printing, Inc.
- K&T Irrigation, Inc.
- Moore Engineering, Inc.
- N.D. Department of Water Resources
- N.D. Natural Resources Trust
- N.D. Water Resource Districts
Association
- Southwest Water Authority
- Western Area Water Supply Authority
- N.D. Game & Fish Department
- Ackerman-Estvold
- Basin Electric Power Cooperative
- Cavendish Farms
- HDR
- MVI-Bismarck
- Barr Engineering Co.
- N.D. Rural Water Systems Association
- Ohnstad Twichell, P.C.

**To register for a water tour, call the
 North Dakota Water Education Foundation at (701) 223-8332**



North Dakota Water Education Foundation 2024 Summer Water Tours

North Dakota Water Education Foundation tours offer a firsthand look at North Dakota's critical water issues and initiatives. Visit sites across the state in a series of one-day tours which include a variety of professionals and local leaders representing different viewpoints. Tour participants learn about water supply, fish and wildlife conservation, water quality, flood protection, water conservation, irrigation, and beneficial water use. Individual registration is \$30 per person per tour and includes tour transportation, lunch, refreshments, informational material, and a one-year subscription to the North Dakota Water magazine.



1 From Pivots to Potatoes – Tuesday, June 11

Hot, crisp, salty fries are a favorite restaurant staple. Join us to learn how Jamestown, with its rich, nutrient-packed soil, produces potatoes ideal for the perfect French fry (with the help of irrigation and good farming practices). Cavendish Farms and VanRay Farms will share why Jamestown is the "Pride of the Prairie." Participants will also hear presentations at the Jamestown Reservoir, which boasts seven boat launches, seven picnic shelters, two swimming beaches, and 2,492 acres of water surface area. This tour will begin and end in Jamestown.

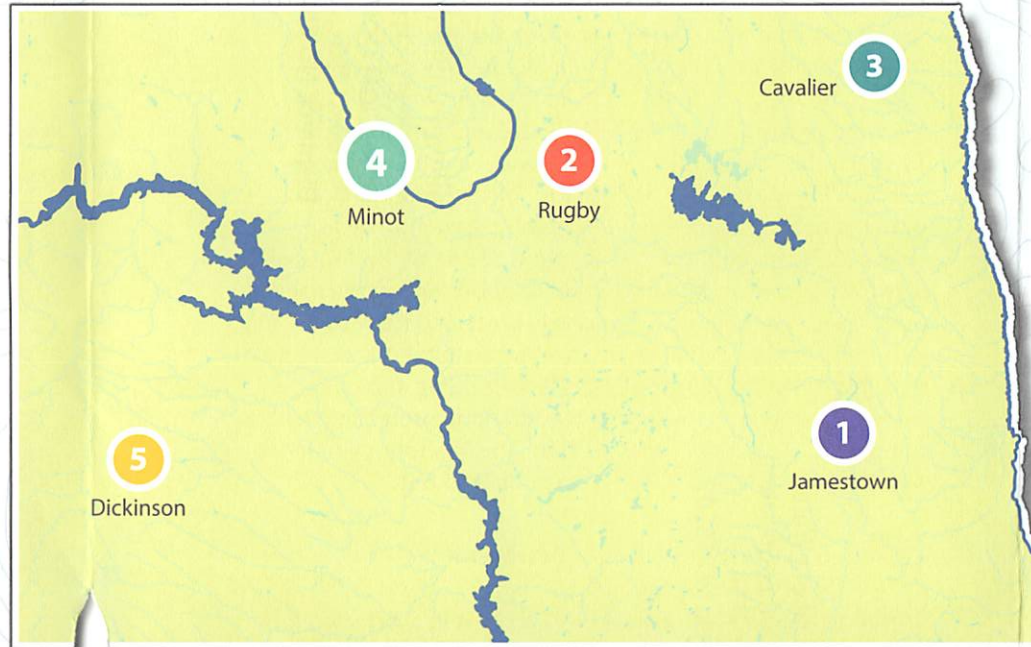
2 Devils Lake Basin Tour – Thursday, June 20

The Devils Lake Basin Joint Water Resource Board represents seven counties in Northeastern North Dakota dealing with water management issues in the Devils Lake Basin area. This year's tour will look at the other areas of the Devils Lake Basin, visit water projects, and learn how they affect Devils Lake. Participants will visit the Dale & Martha Hawk Museum in Wolford and learn about irrigation, sub-surface drainage, rural water distribution, and water conveyance. The tour begins and ends in Rugby.



3 Hidden Gems of the Northeast – Tuesday, June 25

Head to the Rendezvous Region for a tour that begins and ends in Cavalier, the hub for Pembina County communities. The Northeast Regional Water District will share the importance of providing quality water to more than 2,300 customers – in a coverage area of more than 2,000 square miles! The Vivatson Farm will showcase their innovative approaches in irrigation. Learn about flood protection in Neche, situated along the meandering path of the Pembina River. Explore another world within North Dakota at the Pembina Gorge State Recreation Area, which offers year-round recreation on 12,500 acres.



4 Small But Mighty – Thursday, July 11

Don't call it the Souris! The river, beginning in Saskatchewan, winding its way through north-central North Dakota and finally returning to Canada, is known by multiple names, but it is usually referred to as the Mouse River. Do not let the name fool you; while a mouse may be small, the Mouse River is a force to be reckoned with. Containing it in its banks has been the work of the Souris River Joint Board and its partners for 14 years; this flood protection is essential in Minot and the surrounding region. Join us for a tour of this important flood protection project. The tour will travel to Lake Darling to view the dams and reservoirs on the U.S. side of the Mouse River. Next travel to Burlington where flood control has been completed and the city is completely protected from 500-year flood levels. We will then travel through the Minot flood system getting to see some of the largest pump stations within the state and multiple phases of flood protection, some completed and some in construction. This is a tour you do not want to miss! This tour begins and ends in Minot.

5 Quality Water in the Southwest – Wednesday, July 31

Drinking water in southwest North Dakota is in short supply, but the Southwest Pipeline Project packs a punch as it brings clean, affordable water to 33 communities and thousands of rural water customers in the region, in addition to supplying water to the Missouri West Water System in state and Perkins County Rural Water System in South Dakota. New demands for water continue to challenge the region, as projects like the Theodore Roosevelt Presidential Library in Medora are scheduled to open in the next few years. Learn about how quality water is essential to the operation of Odermann Organics, a family-owned farm producing organic beef in Billings County just north of Belfield. This tour begins and ends in Dickinson.

Project Information and Planning Submission

Received : 5/22/24

Project Name : Missouri River Bank Stabilization - Section 32 (O&M)

Local Sponsor : Burleigh County Water Resource District

Location : Burleigh County - Various Locations along the Missouri River

Benefitting Basin : Lower Missouri

Type of Request : Project Study

Update Existing Project :

Project Type : Water Conveyance (Bank Stabilization)

Description : The BCWRD is requesting to program funding to maintain and repair damages to federal revetements constructed under the USACE Section 32 program. This to retain the integrity of the original federal bank stabilization measures and protection along the Missouri River. Funding is primarily necessary after damages occur, however periodically maintenance is required to prevent significant damages losses in the future. The ability to secure USACE funding under Section 33 is limited as there have been no recent funding authorizations.

Problem or Need

Addressed : This work is associated with the Operations and Maintenance of these revetment under an agreement between the Burleigh County Water Resource District and the North Dakota State Water Commission. There are no formal plans or site designations that require work at this time. This will occur on an as needed basis.

Project Information and Planning Submission

Received : 5/22/24

Project Name : Missouri River Bank Stabilization - Section 32 (O&M)

Local Sponsor : Burleigh County Water Resource District

Location : Burleigh County - Various Locations along the Missouri River

- Yes No N/A : Has a feasibility study been completed?
- Yes No N/A : Is this project federally authorized water supply or flood control with federal funding appropriations?
- Yes No N/A : Does this project mitigate low head dam roller effects?
- Yes No N/A : Does this project involve new connections between communities and rural/regional systems?
- Yes No N/A : Does this project correct a violation of a primary water quality condition in a water supply system?
- Yes No N/A : Does this project address supply shortages for domestic use in areas with rapid population growth?
- Yes No N/A : Does this project protect from flooding, or involve flood recovery property acquisitions?
- Yes No N/A : Is this project a dam safety repair or emergency action plan?
- Yes No N/A : Is this project an expansion of an existing water supply system?
- Yes No N/A : Is this project a levee system accreditation, water retention, or flood protection property acquisition?
- Yes No N/A : Is this an irrigation system construction project?
- Yes No N/A : Is this a new rural flood control project?
- Yes No N/A : Is this a bank stabilization project?
- Yes No N/A : Is this a snagging and clearing project located in a population center?
- Yes No N/A : Is this a mainstreet-initiative related project?
- Yes No N/A : Is this project a study, report, analysis, survey, model, evaluation, mapping project, or engineering design?
- Yes No N/A : Is this project an improvement or extraordinary maintenance of a water supply system?
- Yes No N/A : Is this an improvement or extraordinary maintenance of a rural flood control project?
- Yes No N/A : Is this an individual rural or farmstead ring dike construction project?
- Yes No N/A : Is this project a replacement of existing infrastructure?
- Yes No N/A : Is this a snagging and clearing project in a sparsely populated area?



United States Department of the Interior



BUREAU OF RECLAMATION
Dakotas Area Office
304 East Broadway Avenue
Bismarck, ND 58501

IN REPLY REFER TO:

DK-5000
2.1.4.17

Subject: Bureau of Reclamation's Preparation of an Environmental Assessment for the Heart Butte Safety of Dams Modification Project

Dear Interested Party:

The Bureau of Reclamation is preparing an Environmental Assessment (EA) for the funding and construction of a Safety of Dams Modification Project for Heart Butte Dam. Reclamation is the lead Federal Agency responsible for ensuring compliance with the National Environmental Policy Act, National Historic Preservation Act, and related Federal environmental and cultural resource legislation. Reclamation will use this EA to evaluate the environmental impacts associated with construction of the project.

Heart Butte Dam is located on the Heart River in southwestern North Dakota, approximately 100 river miles upstream of Mandan (Figure 1). It forms the principal feature of the Heart Butte Unit of the Pick-Sloan Missouri Basin Program (authorized under Section 9 of the Flood Control Act of December 22, 1944, 58 Stat. 887). The dam was constructed in 1948-1949, and the modification project seeks to provide risk reduction by addressing potential internal erosion risks which have been identified through performance monitoring and extensive geologic exploration.

Reclamation has performed a Corrective Action Study to evaluate alternatives to ensure the continued safe condition of the dam. The selected design alternative includes conduit joint repair, a seepage cutoff system, and a seepage blanket filtration system constructed at the downstream toe of the dam. Construction is expected to require up to two years and a reduction of Lake Tschida to the minimum water elevation of 2030 feet. The reduction in reservoir elevation is necessary to reduce the water table in the vicinity of the project and to reduce the potential for uncontrolled spillway flow during the construction period.

We are requesting your input about the proposed action and any potential project effects. If no significant issues are identified during scoping or preparation of the EA, Reclamation would issue a Finding of **No Significant Impact**. Conversely, if any significant issues are identified, Reclamation would consider whether to proceed with the preparation of an Environmental Impact Statement. The Draft EA will be available for review and comment in fall 2024, and, if no significant impacts are identified, construction is expected to begin in 2027. Reclamation defines significance in accordance with 40 CFR 1508.27.

INTERIOR REGION 5 • MISSOURI BASIN

KANSAS, MONTANA*, NEBRASKA, NORTH DAKOTA, SOUTH DAKOTA

* PARTIAL

To be most helpful to the preparers of the EA please provide any comments regarding this project by June 14, 2024. Questions or comments regarding the preparation of the EA may be directed to Ms. Ashley Persinger, Natural Resource Supervisor, at (701) 221-1282 or at apersinger@usbr.gov, or in writing to: Area Manager, Bureau of Reclamation, 304 E Broadway Ave, Bismarck, ND 58501. If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

Sincerely,

SCOTT HETTINGER

Digitally signed by SCOTT
HETTINGER
Date: 2024.05.15 14:37:05 -05'00'

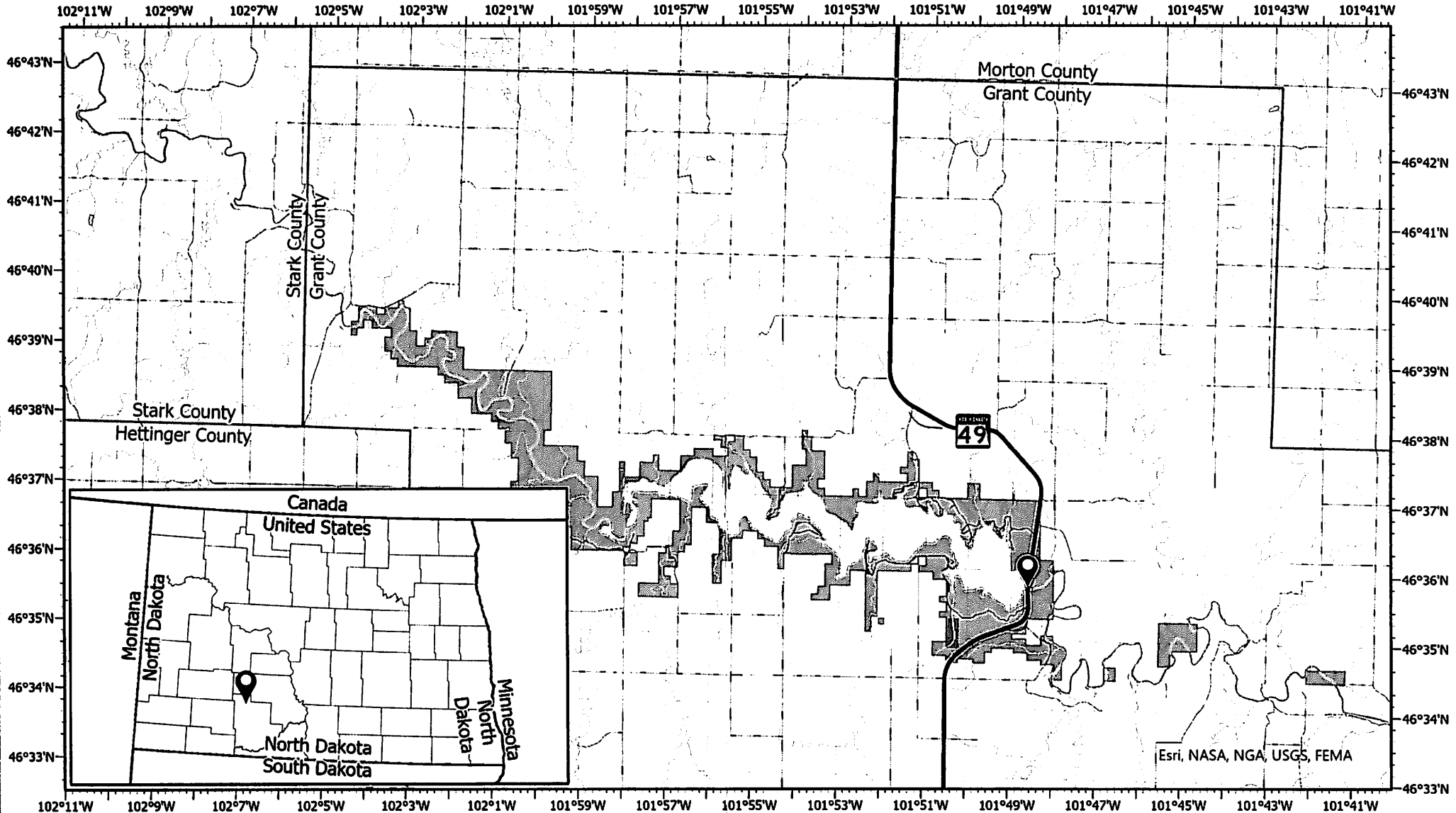
Joseph E. Hall
Area Manager

Enclosure



BUREAU OF RECLAMATION

Heart Butte Safety of Dams Modification Project Lake Tschida | Elgin, North Dakota



Heart Butte Dam	USBR Lands	ND Hwy 49
ND Counties	Lake Tschida	Local Roads
	Heart River	

0 1.25 2.5 5 Miles

Page 138 of 204
BCWRD June 2024

June 2024 Bills

Name	Project	Invoice	Amount
Bismarck Parks & Rec	May, 2024	5206	\$ 23,723.68
Bliss Law Firm	General Legal	526	\$ 1,000.00
Bliss Law Firm	McDowell	516	\$ 306.00
Bliss Law Firm	Drainage Complaints	516	\$ 153.00
Bohlman Trenching Inc	Hoge Island Stabilization - Final	3 FINAL	\$ 16,100.22
Fronteer Professional Services	April 2024 Presort Charges	3888	\$ 59.96
Fronteer Professional Services	May Admin Work and Terminal Server	3910	\$ 2,165.00
Houston Engineering	Apple-McDowell Water Supply Diversion	71137	\$ 6,837.50
Houston Engineering	General Engineering Services	71130	\$ 2,190.00
Houston Engineering	Shore line Stabilization - McDowell	71131	\$ 1,414.90
Houston Engineering	Hoge Island Stabilization - Special Assessment	71136	\$ 1,729.00
	TOTAL		\$ 55,679.26
		Total Bills	\$ 55,679.26



BISMARCK PARKS AND RECREATION DISTRICT
Est. 1927

400 E Front Ave
Bismarck, ND 58504-5641
Phone: 701.222.6455

INVOICE

BILLED TO:
Burleigh County Water Resource District
Wendy Egli
PO Box 1255
Bismarck, ND 58502-1255

DATE: 6/4/2024
INVOICE #: 05206
DUE DATE: 7/4/2024
TOTAL DUE: 23,723.68

CUSTOMER ACCOUNT # : 1017

ITEM DESCRIPTION	UNITS	PRICE	AMOUNT
McDowell Dam-May 2024	1.00	23,723.68	23,723.68
TOTAL THIS INVOICE			23,723.68



Please include account number with your payment.

For questions, contact Julie Fornshell 701.222.6455

REMIT TO:
Bismarck Parks and Recreation District
400 E Front Ave
Bismarck ND 58504-5641

Please remit bottom portion of invoice with your payment.
Thank you!

CUSTOMER ACCOUNT # : 1017
DATE: 6/4/2024
INVOICE #: 05206
DUE DATE: 7/4/2024
TOTAL DUE: 23,723.68

BURLEIGH COUNTY WATER RESOURCE DISTRICT
McDowell Dam Monthly Billing

Bismarck Parks & Recreation District
400 E. Front Ave
Bismarck, ND 58504

For The Month Ended May 31, 2024

Date Submitted: 6/3/2024

Salaries & Wages	\$	8,975.31
Employer Payroll Taxes		686.61
Employee Pension & Health/Life/ Diability Benefits		2,762.46
Property & Liability Insurance		-
Operating Expenses		3,614.56
Capital Improvement Expenses		<u>3,500.00</u>
Total Expenses	\$	<u>19,538.94</u>
Administrative Fee		
(25% of Operating Expenses)	\$	4,009.74
(5% of Capital Improvement Expenses)		<u>175.00</u>
Total Amount Requested	\$	<u><u>23,723.68</u></u>

K. Keist

Prepared By

Board Member

Finance Director

Title

McDowell Dam Monthly Billing
May-24

Salaries & Wages

Salaries - Full time	\$	6,655.11
Sick Leave Overage		-
Wages - Part time		2,320.20
Wages - Part time (Overtime)		-
Total Salaries & Wages		\$ 8,975.31

Employer Payroll Taxes

Social Security/Medicare		686.61
Unemployment- ND Job Service		-
Total Employer Payroll Taxes		686.61

Employee Benefits

Pension		692.13
Health, Life, & Disability Insurance		2,070.33
Total Employee Benefits		2,762.46

Property & Liability Insurance

General Liability		-
Multi Coverage		-
Auto Liability		-
Total Property & Liability Insurance		-

Operating Expenses

Professional Services		-
Service Contracts		-
Sanitary Systems		28.00
Parking Lots & Trail Repair		-
Shop Supplies		-
Janitorial Supplies		-
Miscellaneous Supplies		164.86
Fuel		209.42
Repairs & Replacement		2,297.86
Uniforms		-
Concession Purchases		-
Tools & Small Equipment less \$500		118.98
Equipment over \$500		-
Misc. Charges, Permits, and Licenses		-

Expenses Incurred - NOT Previously Billed

Mar 2024 - Credit Card Fees		7.50
		2,826.62

Utilities

Natural Gas		-
Electricity		490.56
Garbage Removal		-
Water		94.86
Telephone		202.52
Total Utilities		787.94
Total Operating Expenses		3,614.56

Capital Improvements

Building and Building Remodeling		-
Capital Equipment		3,500.00
Capital Outlay		-
Total Capital Improvements		3,500.00

Total Expenses

\$ 19,538.94



Detail Report Account Detail

Date Range: 05/01/2024 - 05/31/2024

Account	Name						Beginning Balance	Total Activity	Ending Balance
Fund: 01 - GENERAL FUND									
<u>01.12.000.510100</u>						FULL-TIME SALARIES			
						17,746.96	6,655.11	24,402.07	
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor		Amount	Running Balance	
05/03/2024	PYPKT01434	PYPKT01434 - 2024-5/		ROBINSON, DAVID H.:000415 - McDow			2,218.37	19,965.33	
05/17/2024	PYPKT01442	PYPKT01442 - 2024-5/		ROBINSON, DAVID H.:000415 - McDow			2,218.37	22,183.70	
05/31/2024	PYPKT01446	PYPKT01446 - 2024-5/		ROBINSON, DAVID H.:000415 - McDow			2,218.37	24,402.07	
<u>01.12.000.510200</u>						PART-TIME SALARIES			
						3,954.56	2,320.20	6,274.76	
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor		Amount	Running Balance	
05/03/2024	PYPKT01437	PYPKT01437 - 2024-5/		JOHNSON, SETH M.:000217 - Operation			806.44	4,761.00	
05/17/2024	PYPKT01443	PYPKT01443 - 2024-5/		JOHNSON, SETH M.:000217 - Operation			586.50	5,347.50	
05/31/2024	PYPKT01448	PYPKT01448 - 2024-5/		KAMPHUIS, MARK A.:002976 - Operatio			228.63	5,576.13	
05/31/2024	PYPKT01448	PYPKT01448 - 2024-5/		JOHNSON, SETH M.:000217 - Operation			698.63	6,274.76	
<u>01.12.000.520400</u>						SANITARY SYSTEMS			
						129.00	28.00	157.00	
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor		Amount	Running Balance	
05/22/2024	APPKT03490	35674	216061	BILLING 3/26/24 - 4/22/24	0846 - SPIFFY BIFFS		28.00	157.00	
<u>01.12.000.530140</u>						MISCELLANEOUS SUPPLIES			
						1,306.91	164.86	1,471.77	
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor		Amount	Running Balance	
05/10/2024	APPKT03501	040224-00533	DFT0001425	CHARGING CABLES (TABLETS)	0948 - US BANK - ONE CARD		82.00	1,388.91	
				Purchased From Vendor: 0964 - WALMART COMMUNITY BRC					
05/10/2024	APPKT03501	146045	DFT0001425	KEY (SPARE FOR CHEVY TRUCK)	0948 - US BANK - ONE CARD		17.38	1,406.29	
				Purchased From Vendor: 0419 - GUARDIAN LOCK & SECURITY					
05/10/2024	APPKT03501	52089 06 2423B	DFT0001425	GARBAGE CAN	0948 - US BANK - ONE CARD		53.98	1,460.27	
				Purchased From Vendor: 0581 - MENARDS INC					
05/10/2024	APPKT03501	L1992089920	DFT0001425	TITLE AND REG FEE (TRUCK 438509)	0948 - US BANK - ONE CARD		11.50	1,471.77	
				Purchased From Vendor: 0623 - NORTH DAKOTA DEPARTMENT OF T					
<u>01.12.000.531300</u>						FUEL			
						489.13	209.42	698.55	
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor		Amount	Running Balance	
05/22/2024	APPKT03492	FLTS-2024-00000004	216080	APRIL 24 FUEL USAGE - MCD	0209 - CITY OF BISMARCK		209.42	698.55	

Detail Report

Date Range: 05/01/2024 - 05/31/2024

Account		Name				Beginning Balance	Total Activity	Ending Balance
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance	
01.12.000.531400		REPAIRS & REPLACEMENT				5,178.43	2,297.86	7,476.29
05/09/2024	APPKT03476	1536-421277	215981	GASKET MAKER	0682 - O'REILLY AUTO PARTS	35.99	5,214.42	
05/09/2024	APPKT03476	569346	215977	OIL, FUEL FILTERS	0617 - NAPA AUTO PARTS	352.18	5,566.60	
05/09/2024	APPKT03476	P4971946	215986	DECK V BELT - MCD	0751 - RDO EQUIPMENT CO.	230.75	5,797.35	
05/09/2024	APPKT03476	P4987046	215986	IDLER PULLEY AND SEAL - MCD	0751 - RDO EQUIPMENT CO.	261.12	6,058.47	
05/10/2024	APPKT03501	135429	DFT0001425	RECEIVER HITCH (NEW TRUCK)	0948 - US BANK - ONE CARD	329.00	6,387.47	
Purchased From Vendor: 0404 - GLENN'S WELDING & TRAILER SUPP								
05/10/2024	APPKT03501	1536-420104	DFT0001425	V-BELT	0948 - US BANK - ONE CARD	80.72	6,468.19	
Purchased From Vendor: 0682 - O'REILLY AUTO PARTS								
05/10/2024	APPKT03501	1536-420660	DFT0001425	RETURN V-BELT	0948 - US BANK - ONE CARD	-80.72	6,387.47	
Purchased From Vendor: 0682 - O'REILLY AUTO PARTS								
05/10/2024	APPKT03501	1900502047310	DFT0001425	BATTERY (2)	0948 - US BANK - ONE CARD	130.00	6,517.47	
Purchased From Vendor: 0474 - INTERSTATE ALL BATTERY CENTER								
05/10/2024	APPKT03501	2000117-76744184	DFT0001425	OIL PAN PAD, SEAT COVER, BATT MAINT	0948 - US BANK - ONE CARD	89.86	6,607.33	
Purchased From Vendor: 0964 - WALMART COMMUNITY BRC								
05/10/2024	APPKT03501	2000118-58605544	DFT0001425	TIRES (2) - MOWER	0948 - US BANK - ONE CARD	84.78	6,692.11	
Purchased From Vendor: 0964 - WALMART COMMUNITY BRC								
05/10/2024	APPKT03501	2000118-58605544A	DFT0001425	TIRES (MOWER, GOLF CART)	0948 - US BANK - ONE CARD	205.90	6,898.01	
Purchased From Vendor: 0964 - WALMART COMMUNITY BRC								
05/10/2024	APPKT03501	21733 06 7253	DFT0001425	ROUTER BIT SET, 1X4-12 BOARD	0948 - US BANK - ONE CARD	25.78	6,923.79	
Purchased From Vendor: 0581 - MENARDS INC								
05/10/2024	APPKT03501	51807 04 9328	DFT0001425	PEGBOARD, LUMBER, FILTER	0948 - US BANK - ONE CARD	149.65	7,073.44	
Purchased From Vendor: 0581 - MENARDS INC								
05/10/2024	APPKT03501	52089 06 2423A	DFT0001425	WOOD LATHE, CAULK, GRANITE	0948 - US BANK - ONE CARD	39.76	7,113.20	
Purchased From Vendor: 0581 - MENARDS INC								
05/10/2024	APPKT03501	52222 04 5180	DFT0001425	PVC PIPE,END CAPS, SPRAY PAINT	0948 - US BANK - ONE CARD	19.71	7,132.91	
Purchased From Vendor: 0581 - MENARDS INC								
05/10/2024	APPKT03501	6632374	DFT0001425	SELF DRILL SCREWS	0948 - US BANK - ONE CARD	8.49	7,141.40	
Purchased From Vendor: 0785 - RUNNINGS SUPPLY INC								
05/10/2024	APPKT03501	6637056	DFT0001425	COVERS, WIPER BLADES, DE-ICER	0948 - US BANK - ONE CARD	104.05	7,245.45	
Purchased From Vendor: 0785 - RUNNINGS SUPPLY INC								
05/10/2024	APPKT03501	75998 06 4412	DFT0001425	CORNER MOLDING	0948 - US BANK - ONE CARD	10.99	7,256.44	
Purchased From Vendor: 0581 - MENARDS INC								
05/22/2024	APPKT03492	3518	216093	INSTALL HAND DRYER - WOMENS BTHR	5426 - GROSS, MATTHEW	135.00	7,391.44	
05/23/2024	APPKT03492	1536-418484	216099	HEADLIGHTS, WIPERS	0682 - O'REILLY AUTO PARTS	51.00	7,442.44	
05/23/2024	APPKT03492	1536-418836	216099	HEADLIGHT EXCHANGE	0682 - O'REILLY AUTO PARTS	13.08	7,455.52	
05/23/2024	APPKT03492	1536-419430	216099	TRANSMISSION FLUID	0682 - O'REILLY AUTO PARTS	45.96	7,501.48	

Detail Report

Date Range: 05/01/2024 - 05/31/2024

Account	Name	Beginning Balance	Total Activity	Ending Balance			
<u>01.12.000.531400</u>	REPAIRS & REPLACEMENT - Continued	5,178.43	2,297.86	7,476.29			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/23/2024	APPKT03492	1536-423629	216099	EXCHANGE ADJ COP COIL, LIC LIGHT, IG	0682 - O'REILLY AUTO PARTS	-25.19	7,476.29
<u>01.12.000.531700</u>	TOOLS & SMALL EQUIP LESS \$500	392.95	118.98	511.93			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/10/2024	APPKT03501	041524-228744	DFT0001425	DEEP SOCKET SET, AIR IMPACT WRENC	0948 - US BANK - ONE CARD	118.98	511.93
Purchased From Vendor: 0428 - HARBOR FREIGHT TOOLS							
<u>01.12.000.540130</u>	ELECTRICITY	1,816.99	490.56	2,307.55			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/22/2024	APPKT03490	APRIL 24	216021	APRIL 24 (4/1/24 - 5/1/24)	0175 - CAPITAL ELECTRIC COOPERATIVE	490.56	2,307.55
<u>01.12.000.540150</u>	WATER	368.19	94.86	463.05			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/31/2024	APPKT03500	MAY 24 BILLING		MAY 24 BILLING	0837 - SOUTH CENTRAL REGIONAL WATER	94.86	463.05
<u>01.12.000.540160</u>	TELEPHONE	405.04	202.52	607.56			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/10/2024	APPKT03501	4012024	DFT0001425	APRIL24 PHONE/INTERNET CHARGES M	0948 - US BANK - ONE CARD	202.52	607.56
Purchased From Vendor: 0087 - BEK COMMUNICATIONS							
<u>01.12.000.550100</u>	HEALTH INSURANCE	8,281.55	2,070.33	10,351.88			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/22/2024	APPKT03490	eins-2024-00000007	216022	MAY 24 HEALTH BENEFITS	0209 - CITY OF BISMARCK	2,070.33	10,351.88
<u>01.12.000.563200</u>	EQUIPMENT OVER \$500	9,340.00	3,500.00	12,840.00			
Post Date	Packet Number	Source Transaction	Pmt Number	Description	Vendor	Amount	Running Balance
05/09/2024	APPKT03476	160089-31386	215978	1986 CHV 1 TON PICKUP W81LBJ33330	0668 - NORTH DAKOTA SURPLUS PROPERTY	3,500.00	12,840.00
Total Fund: 01 - GENERAL FUND:		Beginning Balance:	49,409.71	Total Activity:	18,152.70	Ending Balance:	67,562.41
Grand Totals:		Beginning Balance:	49,409.71	Total Activity:	18,152.70	Ending Balance:	67,562.41

SPIFFY BIFFS

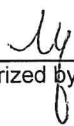
Vendor # 846

Billing Date: 4/22/2024
 Billing Period: 3/26/2024 - 4/22/24

received invoice on 5/17/24

Location	Amount
23rd Street Park	42.00
Bark Park	56.00
Capital Outfall Trailhead	56.00
Clem Kelley	84.00
Clem Kelley Path	112.00
Community Gardens (Municipal Ballpark area)	28.00
Cottonwood - Haaland Baseball field	168.00
Cottonwood BMX	56.00
Cottonwood Park	84.00
Cottonwood Fields 14 & 15	112.00
Cottonwood Fields 8 & 9	112.00
Cottonwood Soccer Temp	84.00
Cottonwood Soccer West	84.00
Cottonwood Temp by Fastpitch (north of Haalan	84.00
Cottonwood North Bathrooms	56.00
Cottonwood Temp by Bthrm near 3 & 4	56.00
Elk Ridge Park	42.00
Gisi Memorial Park	56.00
Heritage Park	56.00
Hidden Star Park	28.00
Hillside Park (Lions)	56.00
Horizon Tennis	42.00
Igoe Park	56.00
Jaycee Park	168.00
McQuade Diamond Enclosures	336.00
New Generations Park	42.00
Nishu Bowmen Archery	56.00
Normandy Park	56.00
Optimist Park	112.00
Pioneer Trailhead	42.00
Pioneer Park Overlook	42.00
Scheels Complex	168.00
Septic Service Vaults (Shelter #10/Keel Boat	500.00
Sertoma North Bathrooms	56.00
Sertoma -300 Riverside Park Rd	56.00
Sertoma Tennis Temp	84.00
Sertoma Walking Path	56.00
Silbernagel Park	42.00
South Meadow Park	28.00
Sunrise Park	56.00
Tatley/Eagles Park	28.00
Tom O'Leary Tennis (temp)	112.00
Tom O'Leary Walking Path	112.00
Tom O'Leary Golf Maintenance Road	196.00
Pebble Creek Golf next to Golf Dome	140.00
Riverwood Golf Course	28.00
Sibley Park	56.00
McDowell Dam	28.00
Total	<u>4,210.00</u>

01.04.000.520400	3,762.00
01.05.110.520400	196.00
01.05.120.520400	140.00
01.05.100.520400	28.00
01.06.200.520300	-
01.15.000.520400	56.00
01.12.000.520400	28.00
01.19.000.520400	-
TOTAL	<u>4,210.00</u>

Authorized by 

Spiffy Biffs

1414 Continental Ave
Bismarck, ND 58504
accounts@spiffybiffs.com



INVOICE

BILL TO

Bismarck Parks & Recreation
District
400 E Front Ave
Bismarck, ND 58504

SHIP TO

Bismarck Parks & Recreation
District
400 E Front Ave
Bismarck, ND 58504

INVOICE # 35674

DATE 04/22/2024

DUE DATE 05/20/2024

PURCHASE ORDER

BISMARCK PARKS / ALL UNITS

ACTIVITY	QTY	RATE	AMOUNT
Portable Toilet Basic Service Sertoma Walking Path	1	56.00	56.00
Portable Toilet Basic Service Century Bark Park	1	56.00	56.00
Portable Toilet Basic Service Jaycee Park	3	56.00	168.00
Portable Toilet Basic Service Pebble Creek Golf	2.50	56.00	140.00
Portable Toilet Basic Service Sibley Park	1	56.00	56.00
Portable Toilet Basic Service Scheels Complex	3	56.00	168.00
Portable Toilet Basic Service Tom Oleary Tennis Temp	2	56.00	112.00
Portable Toilet Basic Service Gisi Park	1	56.00	56.00
Portable Toilet Basic Service Igoe Park	1	56.00	56.00
Portable Toilet Basic Service Sunrise Park	1	56.00	56.00
Portable Toilet Basic Service Normandy Park	1	56.00	56.00
Portable Toilet Basic Service Heritage Park	1	56.00	56.00
Portable Toilet Basic Service Steamboat Park	0	56.00	0.00
Portable Toilet Basic Service Lions Park	1	56.00	56.00
Portable Toilet Basic Service Optimist Park	2	56.00	112.00
Portable Toilet Basic Service Tom Oleary Golf (#14 and Main.)	3.50	56.00	196.00
Portable Toilet Basic Service	2	56.00	112.00

BILLING PERIOD 03/26/24 thru 04/22/24

ACTIVITY	QTY	RATE	AMOUNT
Tom O'Leary Golf [other units]			
Portable Toilet Basic Service Pioneer Overlook	0.75	56.00	42.00
Portable Toilet Basic Service Riverwood Golf	0.50	56.00	28.00
Portable Toilet Basic Service Pioneer Trailhead	0.75	56.00	42.00
Portable Toilet Basic Service Sertoma-300 Riverside Park Rd	1	56.00	56.00
Portable Toilet Basic Service McQuades Softball	6	56.00	336.00
Portable Toilet Basic Service South Meadow Park	0.50	56.00	28.00
Portable Toilet Basic Service HAALAND FIELD PARKING	3	56.00	168.00
Portable Toilet Basic Service Horizon Garden	0	56.00	0.00
Portable Toilet Basic Service Horizon Tennis	0.75	56.00	42.00
Portable Toilet Basic Service Municipal Ballpark	0.50	56.00	28.00
Portable Toilet Basic Service Eagles Park	0	56.00	0.00
Septic Service Vaults (shelter 10 / keel boat / Fox Island) - per service	10	50.00	500.00
Portable Toilet Basic Service Missouri Valley Complex Community Garden	0	56.00	0.00
Septic Service Eagles Park Camper	0	50.00	0.00
Portable Toilet Basic Service CLEM KELLEY / TEMP UNIT BY BATHROOMS AT #2	1.50	56.00	84.00
Portable Toilet Basic Service TATLEY EAGLES COMMUNITY GARDEN	0	56.00	0.00
Portable Toilet Basic Service GENERAL SIBLEY BOAT RAMP	0	56.00	0.00
Portable Toilet Basic Service 23RD ST PARK, BISMARCK	0.75	56.00	42.00
Portable Toilet Basic Service CAPITAL OUTFALL TRAILHEAD	1	56.00	56.00
Portable Toilet Basic Service NEUENS HORSE ARENA	0	56.00	0.00
Portable Toilet Basic Service SONS OF NORWAY PARK	0	56.00	0.00
Portable Toilet Basic Service SILBERNAGEL PARK	0.75	56.00	42.00
Portable Toilet Basic Service CLEM KELLEY BY ELKS	2	56.00	112.00
Portable Toilet Basic Service NISHU BOWMAN ARCHERY BUILDING	1	56.00	56.00

BILLING PERIOD 03/26/24 thru 04/22/24

ACTIVITY	QTY	RATE	AMOUNT
Portable Toilet Basic Service ELK RIDGE PARK BATHROOMS	0.75	56.00	42.00
Portable Toilet Basic Service MCDOWELL DAM	0.50	56.00	28.00
Portable Toilet Basic Service Tatley Eagles Temp	0.50	56.00	28.00
Portable Toilet Basic Service COTTONWOOD REICHERT FIELD	1.50	56.00	84.00
Portable Toilet Basic Service COTTONWOOD FIELDS 14 & 15	2	56.00	112.00
Portable Toilet Basic Service COTTONWOOD FIELDS 8 & 9	2	56.00	112.00
Portable Toilet Basic Service COTTONWOOD BMX	1	56.00	56.00
Portable Toilet Basic Service COTTONWOOD PARKING LOT WEST OF SOCCER	1.50	56.00	84.00
Portable Toilet Basic Service COTTONWOOD NORTH BATHROOMS	1	56.00	56.00
Portable Toilet Basic Service COTTONWOOD TEMP SOCCER BATHROOMS	1.50	56.00	84.00
Portable Toilet Basic Service TEMP BY FAST PITCH NORTH OF HAALAND	1.50	56.00	84.00
Portable Toilet Basic Service COTTONWOOD TEMP BY BATHROOM NEAR 3&4	1	56.00	56.00
Portable Toilet Basic Service Sertoma / TEMP BY TENNIS COURT BATHROOMS	1.50	56.00	84.00
Portable Toilet Basic Service NEW GENERATIONS PARK	0.75	56.00	42.00
Portable Toilet Basic Service SERTOMA NORTH BATHROOMS	1	56.00	56.00
Portable Toilet Basic Service HIDDEN STAR PARK	0.50	56.00	28.00

PLEASE NOTE THE INVOICES PAID WITH
EACH CHECK YOU SEND. THANK YOU!

BISMARCK PARKS / ALL UNITS
MULTIPLE LOCATIONS
PER: BONNIE [222-6464]

SUBTOTAL	4,210.00
TAX	0.00
TOTAL	4,210.00
BALANCE DUE	\$4,210.00

Give us feedback @ survey.walmart.com
Thank you! ID #:7LDFFJLY2X



701-223-3066 Mgr:TIM
2717 ROCK ISLAND PL
BISMARCK ND 58504

ST# 01534 OP# 007393 TE# 68 TR# 00533

ITEMS SOLD 4

TC# 8817 7834 5526 6585 1974



USB-C CHG CB	019425349482	19.00	0
240USB-C 2M	019594909341	29.00	0
20WUSB	019425215694	17.00	0
20WUSB	019425215694	17.00	0
SUBTOTAL		62.00	
TOTAL		62.00	
VISA TEND		62.00	

VISA CREDIT **** * 6485 I 2

APPROVAL # 095080

REF # 1042000314

TRANS ID - 584093700831879

VALIDATION - CBCL

PAYMENT SERVICE - E

AID A0000000031010

AAC 5D8D59F018CE11F6

TERMINAL # SC010877

*NO SIGNATURE REQUIRED

04/02/24 14:28:11

CHANGE DUE 0.00

Low Prices You Can Trust. Every Day.

04/02/24 14:28:21

CUSTOMER COPY

***** RETURN & EXCHANGE POLICY *****

Electronics may be returned

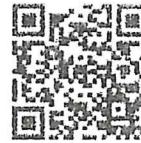
for refund or exchange with receipt

WITHIN 30 days



Become a member

Scan for free 30-day trial



COPY



SALES RECEIPT

BILL TO

Bismarck Parks & Recreation
 400 E. Front Ave.
 Bismarck, ND 58504

SALES # 146045

DATE 04/04/2024

DATE	DESCRIPTION	QTY	RATE	AMOUNT
	Key:Key SS	4	3.00	12.00T
	Magnetic key hider XL	1	5.38	5.38T

We appreciate your business! Thank you!

SUBTOTAL	17.38
TAX	0.00
TOTAL	17.38
BALANCE DUE	\$0.00

Guardian Lock and Safe
 2017 E Main
 Bismarck, ND 58501
 (701) 258-1919

04/04/2024 16:21:32
 Terminal ID No.: 79596037

Credit Sale:
 Transaction #: 11
 Card Type: Visa
 Account: *****6485
 Entry: Chip
Amount: USD\$17.38

Ref. Number: 409521335832
 Auth. Code: 020594
 Batch Number: 398
 Response: APPROVAL 020594

Mode: Issuer
 AID: 40000000031010
 TVR: 0080008000
 IAD: 0601120360002
 TSI: E800
 ARC: 00
 APPN:
 IC: BEC4D78F032B5F32
 ATC: 01EA
 APPLAB: VISA CREDIT

CUSTOMER COPY

COPY

MENARDS - BISMARCK
3300 State Street
Bismarck, ND 58503

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for items on this receipt will be in the form of an in store credit voucher if the return is done after 07/13/24

If you have questions regarding the charges on your receipt, please email us at:
BISMfrontend@menards.com



Sale Transaction

Tax Exempt Certificate ID: 5021339
Exempt Type: Local Government

SINGLE PIECE WOOD LATH		
1022951	6 @0.59	3.54 NT
GE TUB&TILE K&B SIL		
5639371	2 @8.87	17.74 NT
GE ADVANCED K&B SIL		
5639373		10.49 NT
CTOP JAMOCHA GRANITE		
4852349		7.99 NT
32GAL HVY DUTY MENARD CA		
6483172	2 @26.99	53.98 NT

TOTAL SALE 93.74
VISA CREDIT 6485 93.74
PO # McDowell
Auth Code:092503
Chip Inserted
a000000031010
TC - 7f60972975a2501e

TOTAL NUMBER OF ITEMS = 12

COPY

THE FOLLOWING REBATE RECEIPTS WERE
PRINTED FOR THIS TRANSACTION:
3021

GUEST COPY

The Cardholder acknowledges receipt of goods/services in the total amount shown hereon and agrees to pay the card issuer according to its current terms

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, CJ

52089 06 2423 04/14/24 09:57AM 3055

Issue Date: 22-Apr-2024
Letter ID: L1992089920

Transaction Receipt

Branch: 001 - Bismarck Motor Vehicle - Front Counter
Session Id: N6-HN2L-J9LJ
Account ID: G96397 VIN: 1GCGD34J3GF438509

Fees / Credits	Quantity	Amount
Title Fee	1	\$5.00
Abandoned Fee	1	\$1.50
Official Registration Fee	1	\$5.00
		\$11.50
		Total Due
		\$11.50

Payment Type	Payment ID	Tendered	Change	Amount Paid
Debit/Credit Card	6485	\$11.50	\$0.00	\$11.50
		\$11.50	\$0.00	\$11.50

NDDOT-MOTOR VEHICLE
602 E BLVD AVE
BISMARCK, ND 58505
701-328-2725

SALE

MID: 5949911 REF#: 00000019
TID: 022
DID: 0001 RRN: 00000019
Batch #: 113001 12:11:05
04/22/24
APPR CODE: 046478
VISA Contactless
*****6485

\$11.50

AMOUNT

APPROVED

VISA CREDIT
AID: A000000031010
TVR: 00 00 00 00
IAD: 0601203A00000
ARC: 00

Thank You
Please Come Again

CUSTOMER COPY

Type: pL4002 Version: 9

608 EAST BOULEVARD AVENUE | BISMARCK, ND 58505-0780 | dot.nd.gov
Information: (701)328-2725 | FAX: (701)328-1487 | TTY: 711
General Information: 1-855-637-6237 (TOLL FREE)

VISION ZERO
Zero fatalities. Zero excuses.



City of Bismarck
 PO Box 5503
 Bismarck, ND 58506
 (701) 355-1615

INVOICE

DATE: 04/30/2024
 DUE DATE: 05/31/2024
 CUSTOMER NO: 509
 INVOICE NO: FLTS-2024-00000004
 DEPARTMENT: 660 Public Works Service
 Operations

PARKS & RECREATION
 400 E FRONT AVE

 BISMARCK, ND 58504-5641

Billing Inquiries:
 Public Works
 (701)355-1700

Description	Quantity	Unit Price	Total Price
Sale of Fuel-Hwys/Streets	1	\$157.3500	\$157.35
Sale of Unleaded Fuel-Hwy/St	1	\$4,125.1300	\$4,125.13

Invoice Total: \$4,282.48
 Prepaid Amount: -\$0.05
Balance Due: \$4,282.43

Park ops McDowell Sibley County = 4282.48
 3,294.98 209.42 413.15 364.93

----- tear here -----

BISMARCK PUBLIC WORKS

Simple Invoice By Account For Driver

Date Range From : 04/01/2024 12:00:00AM To : 04/30/2024 11:59:00PM

Driver	Driver Name	# of Trans	Price	Total Quantity	Total Amount
Account : 1099 PARKS & REC					
Product : 01 Unleaded					
2522000000001464	PARKS/ DAN S.	2	\$2.960	58.680	\$172.32
2522000000002140	PARKS/ TIM N.	4	\$2.990	94.320	\$279.87
2522000000002179	PARKS/ LYNN M.	1	\$2.960	23.540	\$69.68
2522000000002202	PARKS // DAVE MAYER	1	\$2.990	22.710	\$67.90
2522000000002720	PARKS /// ADAM KELLER	2	\$2.960	49.480	\$145.33
2522000000002722	PARKS /// MERKEL RILEY	1	\$2.990	24.490	\$73.23
2522000000002723	PARKS // JOSH BECKER	2	\$2.990	40.740	\$121.22
2522000000003135	PARKS / EMMY VIDEEN	2	\$2.960	61.630	\$180.59
2522000000003157	PARKS / MARTHA	1	\$2.960	25.410	\$75.21
2522000000003275	PARKS / JACE CARROLL	3	\$2.990	72.000	\$212.62
2522000000003278	PARKS//MILLER, RYAN	5	\$2.990	109.860	\$324.76
2522000000003414	PARKS / JEFF OSTER	2	\$2.990	54.350	\$161.69
2522000000003425	PARKS / JOEY LAFAVE	2	\$2.960	51.680	\$152.97
2522000000003427	PARKS /// BEVERLY <i>W W M B</i>	2	\$2.990	31.810	\$94.65
2522000000003597	PARKS /// SHOP	2	\$2.910	35.750	\$104.03
2522000000003598	PARKS /// SHOP	1	\$2.960	26.120	\$77.32
2522000000003604	PARKS /// ROBINSON	3	\$2.990	70.500	\$209.42
2522000000003729	PARKS / TONY-SCHMITT <i>Mike</i>	2	\$2.990	51.680	\$153.81
2522000000003751	PARKS //SHOP	1	\$2.960	21.600	\$63.94
2522000000003760	PARKS /// STEVE G	7	\$2.990	123.160	\$364.93
2522000000003787	PARKS // HADEM, JERAD	4	\$2.990	99.980	\$295.37
2522000000003827	PARKS / BOSCH JAMIE	3	\$2.990	63.530	\$188.66
2522000000003836	PARKS / MATZKE, BRAD	2	\$2.960	46.490	\$136.47
2522000000003954	Parks/Rich H	3	\$2.990	79.170	\$233.83
2522000000003955	PARKS/BALES, COLIN	1	\$2.960	25.360	\$75.07
2522000000003956	PARKS/GHAD.BOEHM <i>C. D. W.</i>	2	\$2.960	30.860	\$90.24
Totals for Product :				1394.900	\$4,125.13
Product : 05 Diesel					
2522000000003135	PARKS / EMMY VIDEEN	1	\$3.180	49.480	\$157.35
Totals for Product :				49.480	\$157.35
Totals for Account :				1444.380	\$4,282.48

PURCHASE ORDER
BISMARCK PARKS AND RECREATION DISTRICT
 400 East Front Avenue • Bismarck, ND 58504
 Phone: (701) 222-6455 • Fax (701) 221-6838

No. 97695

ND Tax Exempt Number: E-4674
 Federal ID Number: 45-0409352

Name O Rielly

Vendor 682

Address _____

Date 4/30/2024

Notes Seal out

Acct #	Project Number	Cost
<u>01.12.900.531400</u>		
<u>Gasket maker</u>		<u>35.99</u>
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		

Total 35.99

Employee's Signature [Signature]

Manager's Signature [Signature]

Approved By [Signature]



DEDICATED TO THE PROFESSIONAL
 Store 1536, 2201 E BISMARCK EXPY
 BISMARCK, ND 58702 (701) 258-8755

Invoice	1536-421277
Sale Type	CHARGE SALE
Date	04/24/2024 7:55 PM
Ship Via	
PO Number	mcdowell

Bill To:
 BISMARCK PARKS AND RECRE
 400 EAST FRONT AVENUE
 BISMARCK, ND 58504

Ship To:

Counter #	Customer Account	Ordered By	Special Instructions
811216	806814	seth	

Qty	Line	Item Number	Description	Warranty	Unit	Tax	List	Net	Extended
1	PER	85224	7.5OZGSKMAKR	MD	EA	NA	61.00	35.99	35.99

1 Item

Original Invoice #:

Original Invoice Date:

Original Counter #:

Sub-Total	35.99
Sales Tax	.00
Total	35.99

x

Customer Signature

WE APPRECIATE YOUR BUSINESS!

PURCHASE ORDER
BISMARCK PARKS AND RECREATION DISTRICT
 400 East Front Avenue • Bismarck, ND 58504
 Phone: (701) 222-6455 • Fax (701) 221-6838

No. 97694

ND Tax Exempt Number: E-4674
 Federal ID Number: 45-0409352

Name Napa

Vendor 6017

Address _____

Date 4/30/2024

Notes Mower filters

Acct #	Project Number	Cost
<u>01.12.000.531400</u>		
<u>Filters + Oils</u>		<u>352.18</u>
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		

Employee's Signature [Signature]


Manager's Signature [Signature]

Total 352.18

Approved By [Signature]



400007250
 NAPA AUTO PARTS
 1730 E MAIN AVENUE
 PO BOX 1275
 BISMARCK, ND 58501
 (701) 223-2681

Invoice Number **569346** Page: 1/1
 Invoice Date: **04/19/2024 10:34**

 eInvoice# MIN00250569346

10460
 BISMARCK PARKS & RECREATION
 605 W ARBOR AVE
 BISMARCK, ND 58504

Employee: 62 , JULIUS
 Sales Rep: 0 , Salesman
 Accounting Day: 17
 Tax Exemption:

Attention:
 PO#: MCDOWEL DAM
 Delivery:
 Terms: NET 10TH
 Your current in-store balance is: 1,828.

Part Number	Line	Description	Quantity	Price	Net	Total
550045128	SHE	ROTELLA T4 15W40- 5GAL ()	1.00	222.14	116.99	116.99
1365	FIL	OIL FIL ()	4.00	17.76	7.81	31.24 R
3263	FIL	FUEL FIL ()	1.00	28.66	12.61	12.61 R
3263	FIL	FUEL FIL ()	1.00	28.66	12.61	12.61 R
7682	FIL	NAPA HYDRAULIC FILTER ()	1.00	41.16	18.11	18.11 R
2985	FIL	AIR FILTER ()	6.00	60.84	26.77	160.62 R

Qty: 6 from: MIN - MINNEAPOLIS, MN

ON ACCOUNT

ALL GOODS RETURNED MUST BE ACCOMPANIED BY THIS INVOICE



Customer Signature

NO RETURN ON ELECTRICAL
 OR INSTALLED PARTS...

Tender Type: Amount:
 Charge Sale 352.18

Subtotal 352.18
 TAXABLE 65 7.0000% 0.00
 Total 352.18



RDO Equipment Co.
 1850 E. Bismarck
 Expressway
 Bismarck, ND 58504
 701-946-7165
 Fax: 701-222-6341
 www.rdoequipment.com

For Billing Inquiries or to
 receive invoices via E-mail or
 MyDealer website, please contact
 RDOAR@rdoequipment.com

Ship to: N/A

Branch
 BISMARCK CP

CNNYYY

Date
 04/19/24

Time
 12:35:41 (R)

Page
 01

Account No.
 6455018

Phone No.
 7012226455

Invoice No.
 P4971946

Ship Via

Purchase Order

Tax Exemption Number
 E4674

Federal ID Number

Salesperson
 MKO

Invoice to: BISMARCK PARKS & REC
 MCDOWELL DAM
 400 EAST FRONT AVE
 BISMARCK ND 58504

PARTS INVOICE

ORDER#: 045796

- * Buy parts online and view your invoices at RDOequipment.com/account
 Create your FREE RDO Account today!
- ** Ask how you can save 15% on select turf parts.

Part#	Description	Bin	ORD	ISS	SHP	B/O	U	Price	Amount
EPC201624	V-BELT	A240	1	1	1			230.75	230.75
TOTAL DUE RDO									230.75

-----+
 | Payments are due on your RDO account 30 days from the invoice date |
 +-----+

 PLEASE REMIT TO: RDO EQUIPMENT CO.
 P.O. BOX 7160
 FARGO, ND 58106-7160

TOTAL WEIGHT=> 3.85

Thank you for your Business

Stocked parts can be returned within 30 days with copy of invoice. Special order parts \$20.00 and up may be returned within 30 days with copy of invoice. 25% restock charge will apply to all special order parts. All sales are final on special order non-returnable parts. All parts must be new, uninstalled and in original packaging. No returns on electrical components. No refunds on freight charges.



RDO Equipment Co.
 1850 E. Bismarck
 Expressway
 Bismarck, ND 58504
 701-946-7165
 Fax: 701-222-6341
 www.rdoequipment.com

For Billing Inquiries or to
 receive invoices via E-mail or
 MyDealer website, please contact
 RDOAR@rdoequipment.com

Ship to: N/A

Branch
 BISMARCK CP
 CNNYYY
 Date
 04/23/24
 Time
 12:34:53 (R)
 Page
 01
 Account No.
 6455018
 Phone No.
 7012226455
 Invoice No.
 P4987046

Invoice to: BISMARCK PARKS & REC
 MCDOWELL DAM
 400 EAST FRONT AVE
 BISMARCK ND 58504

Ship Via
 Purchase Order
 Tax Exemption Number
 E4674
 Federal ID Number
 Salesperson
 MK0

PARTS INVOICE

ORDER#: 045810

- * Buy parts online and view your invoices at RDOequipment.com/account
 Create your FREE RDO Account today!
- ** Ask how you can save 15% on select turf parts.

Part#	Description	Bin	ORD	ISS	SHP	B/O	U	Price	Amount
CE17406	SEAL	BC00992	1	1	1			23.33	23.33
EPC201669	IDLER	BC00992	1	1	1			237.79	237.79

701-202-7539

TOTAL DUE RDO 261.12

-----+
 | Payments are due on your RDO account 30 days from the invoice date |
 +-----+

 PLEASE REMIT TO: RDO EQUIPMENT CO.
 P.O. BOX 7160
 FARGO, ND 58106-7160

TOTAL WEIGHT=> 5.92

BISMARCK PARKS & REC

Thank you for your Business

Stocked parts can be returned within 30 days with copy of invoice. Special order parts \$20.00 and up may be returned within 30 days with copy of invoice. 25% restock charge will apply to all special order parts. All sales are final on special order non-returnable parts. All parts must be new, uninstalled and in original packaging. No returns on electrical components. No refunds on freight charges.



Custom Truck Accessories

121 Eastdale Dr.
Bismarck, ND 58501
223-5043
223-9373

Sales Receipt

Transaction #: 135429
Account #: 20034
Page: 1 of 1
Date: 4/24/2024
Time: 2:20:04 PM
Cashier: 6
Register #: 4

Bill To: Bismarck Parks & Recreation
400 East Front Avenue
Bismarck, ND 58504-5841
701-222-6464/701-220-2807Greg

Ship To: Bismarck Parks & Recreation
400 East Front Avenue
Bismarck, ND 58504-5841
701-222-6464/701-220-2807Greg

Rep	Item Lookup Code	Description	Quantity	Price	Extended
	RH-BW-25122	Receiver hitch 62-87 chevy lon	1	\$329.00	\$329.00

GLENN WELDING & TRAIL
121 EASTDALE DRIVE
BISMARCK ND 58501
701/223-5043

SALE

REF#: 00000013
RRN: 437369563
14:16:06
Batch #: 115001
04/24/24
Invoice #: 13
APPR CODE: 024615
VISA
*****6485
Contactless
/

AMOUNT \$329.00

APPROVED

VISA CREDIT
AID: A000000031010
TVR: 00 00 00 00 00

Thank You
Please Come Again

CUSTOMER COPY

COPY

Thank you for shopping
Custom Truck Accessories
There is a limit \$2500 when paying by credit
Card or there will be a 3% fee added to the
Invoice please pay back check if over \$2500.00

Sub Total	\$329.00
Sales Tax	\$0.00
Total	\$329.00
Visa / Mastercard Tendered	\$329.00
Card: 6485	
Exp: 0225	
Auth:	
Change Due	\$0.00



DEDICATED TO THE PROFESSIONAL

Store 1536, 2201 E BISMARCK EXPY,
BISMARCK, ND 58504 (701) 258-8755

Bill To:

BISMARCK PARKS AND RECRE
400 EAST FRONT AVENUE

BISMARCK, ND 58504

Invoice	1536-420104
Sale Type	CHG. CARD SALE
Date	04/19/2024 12:47 PM
Ship Via	
PO Number	mcdowll

Counter #	Customer Account	Ordered By	Special Instructions
686608	806814		

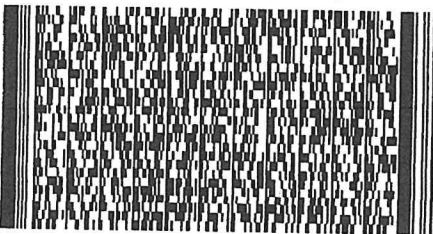
Qty	Line	Item Number	Description	Warr	Unit	Tax	List	Net	Extended
1	GAT	C144	HI-PWR BELT	1Y	EA	N	188.12	80.72	80.72
			DC or Hub Pickup						
			This item has been ordered:						
			1 from DC 16 MINNEAPOLIS						

COPY

1 Item

Select Super Start Batteries come with Roadside Assistance. Ask for details.

Chip Used: Y A000000031010 0000008000 E800 06011203A02002 Verified By Not Verified REF #: 104967396585 AUTH CD: 061479



Sub-Total 80.72
Sales Tax 0.00
Total 80.72
VISA #6485 80.72

WWW.FIRSTCALLONLINE.COM

Warranty/Garantia: www.firstcallonline.com/warranty

WE APPRECIATE YOUR BUSINESS!

1536WS151 Remit To: PO BOX 9464, SPRINGFIELD, MO 65801-9464



DEDICATED TO THE PROFESSIONAL

Store 1536, 2201 E BISMARCK EXPY,
BISMARCK, ND 58504 (701) 258-8755

Bill To:

BISMARCK PARKS AND RECRE
400 EAST FRONT AVENUE

BISMARCK, ND 58504

Invoice	1536-420660
Sale Type	CHG. CARD REFUND
Date	04/22/2024 9:34 AM
Ship Via	
PO Number	mcdowll

Counter #	Customer Account	Ordered By	Special Instructions
616701	806814		

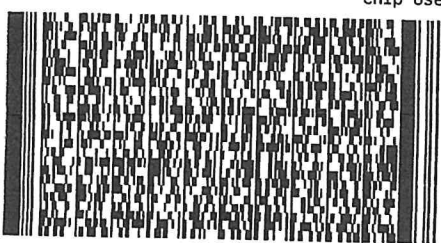
Qty	Line	Item Number	Description	Warr	Unit	Tax	List	Net	Extended
1	GAT	C144	HI-PWR BELT	1Y	EA	N	188.12	-80.72	-80.72
<i>New Return. Original Invoice: 1536-420104, 4/19/2024, PO: mcdowll</i>									

COPY

1 Item

Select Super Start Batteries come with Roadside Assistance. Ask for details.

Chip Used: Y A000000031010 000000000 06011203A00000 Verified By Not Verified REF #: 133803516693 AUTH CD: 80713



Sub-Total	-80.72
Sales Tax	0.00
Total	-80.72
VISA #6485	-80.72

WWW.FIRSTCALLONLINE.COM

Warranty/Garantia: www.firstcallonline.com/warranty

WE APPRECIATE YOUR BUSINESS!

1536WS150 Remit To: PO BOX 9464, BISMARCK, ND 58501-9464

INVOICE

Invoice # 1900502047310

INTERSTATE ALL BATTERY CENTER
901 E MAIN AVE,
BISMARCK, ND 58501-4571

Phone (701)221-2400



Bill To: C9005000000351

BISMARCK PARKS & REC
400 E Front Ave
Bismarck, ND 58504-5641

Ship To: C9005000000351

BISMARCK PARKS & REC
400 E Front Ave
Bismarck, ND 58504-5641
(701)222-6455

Store	9005	Transaction	314094	Invoice Date	04/04/2024
Salesperson	ZACH GOLDADE	P.O.			

Item #	Description	Backordered Qty	Quantity	Price	Ext Price
9005Y00ECONO	ECONO 6 MONTH		2	\$65.00	\$130.00 E
Subtotal					\$130.00
Tax					\$0.00
Total Charges					\$130.00

Sale
VISA CREDIT
*****6485
Auth #: 036079
Chip
AID a0000000031010

TVR 0880008000
AC 87def9890b88062f
TSI e800
ARC 00
IAD 06011203a02000

\$130.00

I have received the goods listed above and agree to pay the Balance Due according to the terms shown.
I certify that the above goods are sales tax exempt and a sales tax permit number E4674 for Government Agency has been provided.

I agree to pay the above amount according to my card payer agreement.

Printed Name: _____

Signature: _____

See www.InterstateBatteries.com/warranty for product specific warranty terms. Warranty is void where any battery has been subject to misuse, abuse, alteration or where any battery has been repaired or attempted to have been repaired. The following terms apply to all products sold under this invoice:

LIMITATION OF REMEDIES: ALL PRODUCT WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES WITH RESPECT TO THE PRODUCTS SOLD HEREUNDER, AND THERE ARE NO OTHER WARRANTIES BY SELLER EXCEPT WHERE REQUIRED BY LAW, WHETHER EXPRESS, IMPLIED OR OTHERWISE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE SOLE AND EXCLUSIVE REMEDY OF ANY PURCHASER WITH RESPECT TO ANY FAILURE, EXPENSE, LOSS DAMAGE OR INJURY FOR ANY PRODUCT SOLD HEREUNDER SHALL BE REPLACEMENT OF THE PRODUCT WITHOUT CHARGE DURING THE APPLICABLE WARRANTY PERIOD. PURCHASER AGREES THAT NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, THE RECOVERY OF PUNITIVE DAMAGES, CONSEQUENTIAL OR INCIDENTAL DAMAGES, SUCH AS THE COST OF INSTALLATION, TOWING CHARGES OR ANY LABOR) SHALL BE AVAILABLE TO PURCHASER FOR PRODUCTS PURCHASED HEREUNDER, SUCH DAMAGES BEING EXPRESSLY EXCLUDED HEREBY.

CONDITIONS OF SALE: All amounts are due and payable at the Seller's address. Purchaser agrees that jurisdiction and venue for any action to collect amounts that may be owed pursuant to this invoice shall be the county in which the Seller's principal office is located. All collection costs, including attorney's fees, shall be paid by the Purchaser.

COPY

Sponsored



Apr 11, 2024 order
Order# 2000117-76744184



ABN Silicone Heater Pad Car Battery Oil Pan Pad 4x5" 120V 100W	Qty 1	\$24.99
Leader Accessories Universal Pickup Trucks Bench Seat Cover,Black	Qty 1	\$35.99
12V/8A 24V/4A Automatic Smart Battery Charger/Maintainer with LCD Display Pulse Repair Charger Pack for Car, Lawn Mower, Motorcycle, Boat, SUV and More - J30	Qty 1	\$28.88

Subtotal		
Savings		\$93.86
		-\$4.00
		\$89.86
Tax		\$0.00
Total		\$89.86

Charge history Your transaction activity for this order >

Payment method Ending in 6485

COPY



Apr 19, 2024 order
Order# 2000118-58605544



Hi-Run SU05 18X8.50-10 18x8.50x10 Load 4 Ply Lawn & Garden Tire	Qty 2	\$84.78
GTW Topspin 18x8.5-8 Sawtooth Golf Cart Street/Course Tire 4 Ply	Qty 2	\$79.90
Deestone D266 23X10.50-12 Load 4 Ply Lawn & Garden Tire	Qty 2	\$126.00

Subtotal		\$306.68
Savings		-\$16.00
		\$290.68

Expert tire installation Pay at store

Tax \$0.00

Total \$290.68

Charge history Your transaction activity for this order >

Payment method Ending in 6485

COPY



Apr 19, 2024 order
Order# 2000118-58605544



Hi-Run SU05 18X8.50-10 18x8.50x10 Load 4 Ply Lawn & Garden Tire	Qty 2	\$84.78
GTW Topspin 18x8.5-8 Sawtooth Golf Cart Street/Course Tire 4 Ply	Qty 2	\$79.90
Deestone D266 23X10.50-12 Load 4 Ply Lawn & Garden Tire	Qty 2	\$126.00

705.90

Subtotal \$306.68

Savings -\$16.00

\$290.68

Expert tire installation Pay at store

Tax \$0.00

Total \$290.68

Charge history your transaction activity for this order >

Payment method Ending in 6485

COPY

MENARDS - BISMARCK
3300 State Street
Bismarck, ND 58503

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for
items on this receipt will be in the form
of an in-store credit voucher if the
return is done after 07/21/24

If you have questions regarding the
charges on your receipt, please
email us at:
BISMfrontend@menards.com



Sale Transaction

Tax Exempt Certificate ID: 5021339
Exempt Type: Local Government

ROUTER BII SET STRAIGHT	
2363546	19.99 NT
1X4-12' #3 STANDARD	
1031036	5.79 NT

TOTAL SALE	25.78
VISA CREDIT 6485	25.78
PO # McDowell	
Auth Code:000522	
Chip Inserted	
a0000000031010	
TC - 2f648773866c2f34	

TOTAL NUMBER OF ITEMS = 2

THE FOLLOWING REBATE RECEIPTS WERE
PRINTED FOR THIS TRANSACTION:
3023

GUEST COPY

The Cardholder acknowledges receipt of
goods/services in the total amount shown
hereon and agrees to pay the card issuer
according to its current terms.

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, Jordan

21733 06 7253 04/22/24 01:31PM 3055

Prices shown are valid today only.

BISM 22796

MENARDS - BISMARCK
3300 State Street
Bismarck, ND 58503

gMaterials@menards.com



PICKING LIST - GUEST COPY

PAGE 1 OF 1

GUEST NAME - ADDRESS - PHONE

Nelson, Tim
400 E Front Ave
Bismarck, ND 58504-5641

Ph: (701) 222-6455
JOB DESC:

SOLD BY: ZACH M.
DATE: 04/03/24

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for items on this receipt will be in the form of an in store credit voucher if the return is done after 07/02/24

If you have questions regarding the charges on your receipt, please email us at:
BISMfrontend@menards.com



Sale Transaction

Cust name: Nelson, Tim

Tax Exempt Certificate ID: 5021339
Exempt Type: Local Government

3/16(CAT)4X8 PEGBOARD 21.99 NT
1291054
WHIRLPOOL FILTER #2 * 53.98 NT
4534820
ORDER 22796
2X8-8' AC2 GREEN TREATED-PICK* 73.68 NT
1111325 6 @12.28
END OF ORDER

TOTAL SALE 149.65
VISA CREDIT 6485 149.65

PO # mcdowell dam
Auth Code:072076
Chip Inserted
a0000000031010
TC - 951f8868df98f473

TOTAL SAVINGS 11.46

TOTAL NUMBER OF ITEMS = 8

THE FOLLOWING REBATE RECEIPTS WERE PRINTED FOR THIS TRANSACTION:
3020

GUEST COPY

The Cardholder acknowledges receipt of goods/services in the total amount shown hereon and agrees to pay the card issuer according to its current terms.

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, Patty

51807 04 9328 04/03/24 11:49AM 3055

SKU NUMBER

ED GROUND CONTACT 111-1325

COPY

IT NOT BEING AVAILABLE ON A LATER DATE
ALL MERCHANDISE TODAY. THANK YOU.

yard picking list subject to the terms and conditions below. Quantities listed above may exceed quantities if guest, but instead is available to the buying public on a first come, first serve basis. Please pickup all up products on this picking list today will result in additional charge to you if, on the day of pick up, the Menards liability to you is limited to refunding your original purchase price for any product not picked up.

ndise.
All vehicles are subject to inspection.)
I'll gladly help you load your materials

PRE-TAX TOTAL: 73.68

endant. (The Gate Attendant will record the

ve received the merchandise.

, trunk lid, etc. For your convenience, we supply twine, but you will have to decide whether or not your do not believe the twine will suffice, stronger material can be purchased inside the store.

All returns are subject to Menards' posted return policy. In consideration for Menards low prices you agree will agree to exchange the merchandise or refund the purchase price based on the form of original payment. If there is a warranty provided by the manufacturer, that warranty shall govern your rights and Menards shall e warranties, and are not a part of this contract. The guest agrees to inspect all merchandise prior to installing ARDS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. IMPLIED, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE relating to this contract, or the breach thereof, shall be settled by arbitration administered by the American rercial Arbitration Rules, and judgments on the award rendered by the arbitrator(s) may be entered in any is and conditions through purchase of merchandise contained on this document.

THE ATTENDANT-SCAN HERE ==>



Page 1 of 204
BCVFRD June 2024

MENARDS - BISMARCK
3300 State Street
Bismarck, ND 58503

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for items on this receipt will be in the form of an in store credit voucher if the return is done after 07/13/24

If you have questions regarding the charges on your receipt, please email us at:
BISMfrontend@menards.com



Sale Transaction

Tax Exempt Certificate ID: 5021339
Exempt Type: Local Government

SINGLE PIECE WOOD LATH		
1022951	6 @0.59	3.54 NT
GE TUB&TILE K&B SIL		
5639371	2 @8.87	17.74 NT
GE ADVANCED K&B SIL		
5639373		10.49 NT
CTOP JAMOCHA GRANITE		
4852349		7.99 NT
32GAL HVY DUTY MENARD CA		
6483172	2 @26.99	53.98 NT

} 39.74

TOTAL SALE 93.74
VISA CREDIT 6485 93.74
PO # McDowell
Auth Code:092503
Chip Inserted
a0000000031010
TC - 7f60972975a2501e

TOTAL NUMBER OF ITEMS = 12

COPY

THE FOLLOWING REBATE RECEIPTS WERE
PRINTED FOR THIS TRANSACTION:
3021

GUEST COPY

The Cardholder acknowledges receipt of goods/services in the total amount shown hereon and agrees to pay the card issuer according to its current terms

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, CJ

52089 06 2423 04/14/24 09:57AM 3055

MENARDS - BISMARCK
3300 State Street
Bismarck, ND 58503

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for
items on this receipt will be in the form
of an in store credit voucher if the
return is done after 07/22/24

If you have questions regarding the
charges on your receipt, please
email us at:

BISMfrontend@menards.com



Sale Transaction

Tax Exempt Certificate ID: 5021339
Exempt Type: Local Government

UNIV SPRAYPAINT MT FH.BL*		
5577081		
3/4" PVC CAP	7.49	NT
6896687	4 @0.81	3.24
3/4" X 5' SCH 40 PVC PIP		NT
6898517	2 @4.49	8.98
		NT

TOTAL SALE 19.71
VISA CREDIT 6485 19.71

PO # mcdowall
Auth Code:040743
Contactless
a0000000031010
ARQC - 45bb6463942a1ef0

TOTAL SAVINGS 2.49

TOTAL NUMBER OF ITEMS = 7

THE FOLLOWING REBATE RECEIPTS WERE
PRINTED FOR THIS TRANSACTION:
3023

GUEST COPY

The Cardholder acknowledges receipt of
goods/services in the total amount shown
hereon and agrees to pay the card issuer
according to its current terms.

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, Lola

52222 04 5180 04/23/24 01:39PM 3055

COPY



701 South Washington
Bismarck; ND 58504
701-223-9582

PROD ID	QTY	UM	PRICE	TOTAL
SELF DRILL SCREW PH PHIL 8X3/4				
7468739	1	EA	8.49	8.49 n
SUBTOTAL				8.49
Tax				0.00
TOTAL				8.49
Visa				8.49
xxxxxxxxxxxx6485 (Approved)				
ROBINSON/DAVID				

04/05/24 11:37:32 016 77660205016
1610111 BISMARCK PARKS & RECREATION
ATB: *ALL NEED A PO
GOV: 1610111
PO NUMBER: mcdowell
INVOICE #: 6632374 WSID: RSIWS1949
C4CC4AF4-1863-40F6-8176-49C49CD09C19
0928SV 5.1.23.1003 TILL ID: 03

Thanks for choosing Runnings!

Earn rewards for every purchase.
Apply for the NEW Runnings Mastercard®



COPY

MENARDS - BISMARCK
3300 State Street
Bismarck, ND 58503

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for
items on this receipt will be in the form
of an in-store credit voucher if the
return is done after 07/16/24

If you have questions regarding the
charges on your receipt, please
email us at:
BISMfrontend@menards.com



Sale Transaction

Tax Exempt Certificate ID: 5021339
Exempt Type: Local Government

CORNER GRD WM206 GLDOAK
4170946

10:99 NT

TOTAL SALE 10.99
VISA CREDIT 6485 10.99
PO # MCDOWELL DAM
Auth Code:039690
Chip Inserted
a0000000031010
TC - 362fbfea1ed5e1aa

TOTAL NUMBER OF ITEMS = 1

THE FOLLOWING REBATE RECEIPTS WERE
PRINTED FOR THIS TRANSACTION:
3022

COPY

GUEST COPY

The Cardholder acknowledges receipt of
goods/services in the total amount shown
hereon and agrees to pay the card issuer
according to its current terms.

THIS IS YOUR CREDIT CARD SALES SLIP
PLEASE RETAIN FOR YOUR RECORDS.

THANK YOU, YOUR CASHIER, Natalie

75998 06 4412 04/17/24 01:50PM 3055

PURCHASE ORDER
BISMARCK PARKS AND RECREATION DISTRICT
 400 East Front Avenue • Bismarck, ND 58504
 Phone: (701) 222-6455 • Fax (701) 221-6838

No. 97698

ND Tax Exempt Number: E-4674
 Federal ID Number: 45-0409352

Name Gross Electric

Vendor 5426

Address _____

Date 5/6/2024

Notes Electrical work

Acct #	Project Number	Cost
<u>01.12.000.531400</u>		
<u>Mounting hand dryer in Womens Bathroom</u>		<u>135.00</u>
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		
Acct #		
Description		

Total 135.00

Employee's Signature [Signature]

Manager's Signature [Signature]

Approved By [Signature]



GROSS ELECTRIC, INC.
1230 W Highland Acres Rd
Bismarck, ND 58501
701-751-4569

Invoice

BILL TO
Bismarck Parks and Rec
400 E Front Ave
Bismarck, ND 58504

INVOICE #	DATE	TOTAL DUE	TERMS	ENCLOSED
3518	05/01/2024	\$135.00	Due on receipt	

QTY	DESCRIPTION	RATE	AMOUNT
	Install hand dryer in women's bathroom @ Mcdowell Dam		
1.50	Labor Clint Sjomeling	90.00	135.00

BALANCE DUE

\$135.00



DEDICATED TO THE PROFESSIONAL
 Store 1536, 2201 E BISMARCK EXPY
 BISMARCK, ND 58504 (701) 258-8755

Invoice	1536-418484
Sale Type	CHARGE SALE
Date	04/11/2024 7:47 PM
Ship Via	
PO Number	mcdowell

Bill To:
 BISMARCK PARKS AND RECRE
 400 EAST FRONT AVENUE
 BISMARCK, ND 58504

Ship To:

Counter #	Customer Account	Ordered By	Special Instructions
701748	806814	seth	

Qty	Line	Item Number	Description	Warranty	Unit	Tax	List	Net	Extended
2	TRI	31-160	WIPER BLADE	1Y	EA	NA	16.93	4.50	9.00
1	SYL	H4656XV	SEALED BEAM	1Y	EA	NA	37.27	21.00	21.00
1	SYL	H4656XV	SEALED BEAM	1Y	EA	NA	37.27	21.00	21.00

4 Items

Original Invoice #: Original Invoice Date: Original Counter #:

Sub-Total	51.00
Sales Tax	.00
Total	51.00

x

Customer Signature

WE APPRECIATE YOUR BUSINESS!



DEDICATED TO THE PROFESSIONAL
 Store 1536, 2201 E BISMARCK EXPY
 BISMARCK, ND 58305 (701) 258-8755

Invoice	1536-418836
Sale Type	CHARGE SALE
Date	04/13/2024 11:21 AM
Ship Via	
PO Number	seth

Bill To:
 BISMARCK PARKS AND RECRE
 400 EAST FRONT AVENUE
 BISMARCK, ND 58504

Ship To:

Counter #	Customer Account	Ordered By	Special Instructions
149113	806814	seth	

Qty	Line	Item Number	Description	Warranty	Unit	Tax	List	Net	Extended
1	SYL	H4656XV -	SEALED-BEAM-	1Y	EA	NA	-37.27	-21.00	-21.00
		New Return							
1	SYL	H4656XV	SEALED BEAM	1Y	EA	NA	-37.27	-21.00	-21.00
		New Return							
2	SYL	H6054ST	SEALED BEAM	1Y	EA	NA	50.83	27.54	55.08

4 Items

Original Invoice #: 418484

Original Invoice Date:

Original Counter #:

***** RETURN AUTHORIZATION *****

Sub-Total	13.08
Sales Tax	.00
Total	13.08

x

Customer Signature

WE APPRECIATE YOUR BUSINESS!

WWW.FIRSTCALLONLINE.COM

1 / 1

Remit To: PO Box 9464, Springfield, MO 65801-9464



DEDICATED TO THE PROFESSIONAL
 Store 1536, 2201 E BISMARCK EXPY
 BISMARCK, ND 58504 (701) 258-8755

Invoice	1536-419430
Sale Type	CHARGE SALE
Date	04/15/2024 7:33 PM
Ship Via	
PO Number	thanks

Bill To:
 BISMARCK PARKS AND RECRE
 400 EAST FRONT AVENUE
 BISMARCK, ND 58504

Ship To: _____

Counter #	Customer Account	Ordered By	Special Instructions
701748	806814	seth	

Qty	Line	Item Number	Description	Warranty	Unit	Tax	List	Net	Extended
1	ORO	DEX-VI	1QTTRANSFLD	MD	EA	NA	19.47	11.49	11.49
1	ORO	DEX-VI	1QTTRANSFLD	MD	EA	NA	19.47	11.49	11.49
1	ORO	DEX-VI	1QTTRANSFLD	MD	EA	NA	19.47	11.49	11.49
1	ORO	DEX-VI	1QTTRANSFLD	MD	EA	NA	19.47	11.49	11.49

4 Items

Original Invoice #:

Original Invoice Date:

Original Counter #:

Sub-Total	45.96
Sales Tax	.00
Total	45.96

x

Customer Signature

WE APPRECIATE YOUR BUSINESS!



DEDICATED TO THE PROFESSIONAL

Store 1536, 2201 E BISMARCK EXPY,
BISMARCK, ND 58504 (701) 258-8755

Bill To:

BISMARCK PARKS AND RECRE
400 E FRONT AVE

BISMARCK, ND 58504

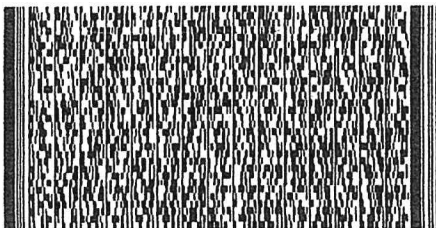
Invoice	1536-423629
Sale Type	CREDIT TO ACCOUNT
Date	05/06/2024 11:39 AM
Ship Via	
PO Number	mcdowell

Counter #	Customer Account	Ordered By	Special Instructions
811216	806814	seth	

Qty	Line	Item Number	Description	Warr	Unit	Tax	List	Net	Extended
1	STD	FD509	COP COIL	LT	EA	N	79.64	-38.87	-38.87
<i>New Return. Original Invoice: 1536-423598, 5/6/2024, PO: mcdowell</i>									
1	CSS	62520	LPF COMBO	LT	EA	N	33.88	-19.99	-19.99
<i>New Return. Original Invoice: 1536-423598, 5/6/2024, PO: mcdowell</i>									
1	CTI	85808-	LICENSE LITE	1Y	EA	N	19.47	-11.49	-11.49
<i>New Return. Original Invoice: 1536-423598, 5/6/2024, PO: mcdowell</i>									
1	MPI	2-50006	IGN COIL	LT	EA	N	98.29	26.29	26.29
1	CA	93370	LP HARDWARE	MD	KT	N	6.25	3.69	3.69
1	OPT	LPL31CS	LICENSE LITE	LT	EA	N	16.08	7.59	7.59
1	OPT	LPL31CS	LICENSE LITE	LT	EA	N	16.08	7.59	7.59


7 Items

Select Super Start Batteries come with Roadside Assistance. Ask for details.



X

Customer Signature



Sub-Total -25.19
Sales Tax 0.00
Total -25.19

WWW.FIRSTCALLONLINE.COM

Warranty/Garantia: www.firstcallonline.com/warranty

WE APPRECIATE YOUR BUSINESS!

1536WS150 Remit To: PO BOX 9464, BISMARCK, ND 58501-9464

HARBOR FREIGHT

QUALITY TOOLS LOWEST PRICES

BISMARCK ND #00620
2700 STATE ST STE B-1
BISMARCK, ND 58503
Telephone: (701) 258-1551

SALE

Customer Name Bismarck Bismarck Parks And R
Customer Number: 888019404876

69560 13PC 1/2DR SAE IMPACT DEEP SK\$28.99E
58684 1/2IN GUNMETAL AIR IMPACT EQX\$89.99E

Subtotal \$118.98
Tax Exempt No. 3936362
DEFAULT TAX RULE 0.000% \$0.00
Total \$118.98

Visa \$118.98

Card No. XXXXXXXXXXXX6485

Expiration Date XX/XX

Auth. No. 050493

VISA CREDIT

Contactless

Signature Verified

Mode: Issuer

AID: A0000000031010

TVR: 0000000000

IAD: 06011203A00000

TSI: 0000

ARC: 00

Please Retain for Your Records

Store: 00620 Res: 01 Tran: 228744
Date: 4/15/2024 2:23:07 PM Assoc: XXXXXX
Ticket: 01228744

COPY

Item(s) Sold: 2
Item(s) Returned: 0

Donald served you today.
Thank you for shopping at
BISMARCK ND #00620

Proof of Purchase Required for Returns/
Exchanges Within 90 Days of Purchase.

GET EXCLUSIVE DEALS

Sign up today at HarborFreight.com/email
or Text TOOLS to 34648





A Touchstone Energy® Cooperative

7401 Yukon Drive
 Bismarck, ND 58503
 Office: (701) 223-1513
 Payments: (877) 853-5928
 www.capitalelec.com

Statement Date **05/07/2024**
 Account Number **868001**
 Due Date **05/31/2024**

Billing Summary

Previous Balance \$278.87
 Payment(s) Received *Thank You!* \$-278.87
 Balance Forward \$0.00
 Charges \$229.14
Amount Due \$229.14

**BIS CITY PARK DISTRICT
 PARK & REC
 400 E FRONT AVE
 BISMARCK ND 58504-5641**

Message(s) NOTICE OF 2023 CAPITAL CREDIT ALLOCATION
 \$204.60 (G&T \$19.68) (COOP \$184.92)
 TOTAL BALANCE \$90,996.32

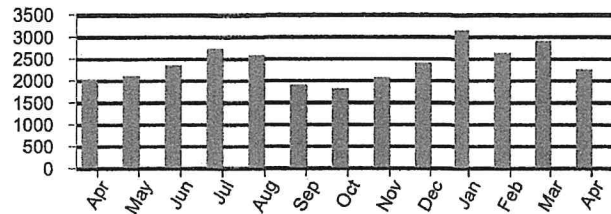
Grid Capacity Occurred: 02/03/2024 2:15 PM - 3:15 PM

Service Address: SEC 27SW MCDOWELL HOUSE

Meter #	Rate Description	From	To	Days	Previous	Present	Mult.	kWh
86861804	RURAL SMALL COMM UNDER 10KW	04/01/2024	05/01/2024	30	108529	110783	1	2254

Detail of Charges

Monthly Base Charge		\$31.00
Usage Charge	1500 kWh @ \$0.08161	\$122.42
	754 kWh @ \$0.07711	\$58.14
Grid Capacity Charge	14.06 kW @ \$1.25	\$17.58
Current Charges		\$229.14



PERIOD ENDING	APR 2023	APR 2024
Avg Daily Temp	38	46
Avg Daily kWh	68	75

RETURN BOTTOM PORTION WITH YOUR PAYMENT. PLEASE DO NOT FOLD, STAPLE, TAPE, OR PAPERCLIP.

Capital Electric Cooperative is an equal opportunity provider and employer.

**BIS CITY PARK DISTRICT
 PARK & REC
 400 E FRONT AVE
 BISMARCK ND 58504-5641
 PRIMARY: (701) 222-6455**

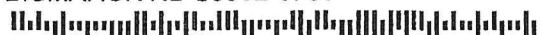
SECONDARY:

Account Number **868001**
 Due Date **05/31/2024**
 Amount Due **\$229.14**


See reverse side for payment options

Please notify us of any changes to your account information below:

CAPITAL ELECTRIC COOPERATIVE, INC.
 PO BOX 730
 BISMARCK ND 58502-0730





A Touchstone Energy[®] Cooperative 

7401 Yukon Drive
 Bismarck, ND 58503
 Office: (701) 223-1513
 Payments: (877) 853-5928
 www.capitalelec.com

Statement Date **05/07/2024**
 Account Number **868002**
 Due Date **05/31/2024**

Billing Summary

Previous Balance \$301.50
 Payment(s) Received Thank You! \$-301.50
 Balance Forward \$0.00
 Charges \$218.22
Amount Due \$218.22

**BIS CITY PARK DISTRICT
 PARK & REC
 400 E FRONT AVE
 BISMARCK ND 58504-5641**

Message(s) NOTICE OF 2023 CAPITAL CREDIT ALLOCATION
 \$220.07 (G&T \$21.17) (COOP \$198.90)
 TOTAL BALANCE \$90,996.32

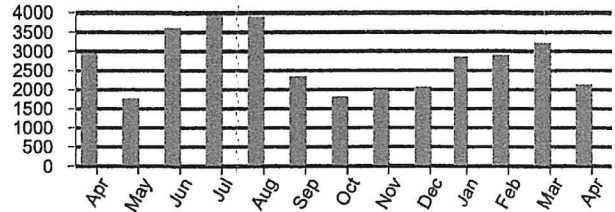
Grid Capacity Occurred: 09/01/2023 4:30 PM - 5:30 PM

Service Address: SEC 27 MCDOWELL REC AREA

Meter #	Rate Description	From	To	Days	Previous	Present	Mult.	kWh
78904864	RURAL SMALL COMM UNDER 10KW	04/01/2024	05/01/2024	30	3052	3105	40	2120

Detail of Charges

Monthly Base Charge		\$31.00
Usage Charge	1500 kWh @ \$0.08161	\$122.42
	620 kWh @ \$0.07711	\$47.80
Grid Capacity Charge	13.6 kW @ \$1.25	\$17.00
Current Charges		\$218.22



PERIOD ENDING	APR 2023	APR 2024
Avg Daily Temp	38	46
Avg Daily kWh	97	71

RETURN BOTTOM PORTION WITH YOUR PAYMENT. PLEASE DO NOT FOLD, STAPLE, TAPE, OR PAPERCLIP.

Capital Electric Cooperative is an equal opportunity provider and employer.

**BIS CITY PARK DISTRICT
 PARK & REC
 400 E FRONT AVE
 BISMARCK ND 58504-5641**
 PRIMARY: (701) 222-6455

SECONDARY:

Account Number **868002**
 Due Date **05/31/2024**
 Amount Due **\$218.22**

See reverse side for payment options

Please notify us of any changes to your account information below:

CAPITAL ELECTRIC COOPERATIVE, INC.
 PO BOX 730
 BISMARCK ND 58502-0730





P.O. Box 4182
Bismarck, ND 58502-4182

(701) 258-8710 • Fax (701) 223-6041
Office Hours M-Th 8-4:30 and F 8-4
www.southcentralwaternd.com

Account Number: 05791540-00
Service Address: MCDOWELL DAM PARK
Billing Date: 05/21/2024
Current Charges: 36.37
Past Due Charges: 0.00
Amount Due by 06/10/2024: 36.37
Amount Due After 06/10/2024: 40.37

Check here if you have had a mailing address change and indicate this change on the back of the stub.



BISMARCK PARK DISTRICT
400 E FRONT AVE
BISMARCK ND 58504-5641

883 Web ID

Amount Enclosed: _____

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR PAYMENT

Please Make Checks Payable to: SOUTH CENTRAL REGIONAL WATER or SCWD

Account Number: 05791540-00
Service Address: MCDOWELL DAM PARK
Last Payment: 34.00 - 04/29/2024
Billing Date: 05/21/2024

BISMARCK PARK - MCDOWELL DAM
400 E FRONT AVE
BISMARCK ND 585045641

Current Reading: 05/01/2024 483600
Previous Reading: 04/01/2024 482800
Usage: 800

Important Messages
REMINDER: YOU MAY NOW PAY YOUR BILL VIA DEBIT OR CREDIT CARD. YOU CAN CALL 844-793-7222 OR VISIT [HTTPS://SOUTHCENTRAL.BILLINGDOC.NET](https://southcentral.billingdoc.net) IN ORDER TO DO SO YOU WILL NEED YOUR WEB ID FROM YOUR BILL
IF YOU PAY BY CREDIT OR DEBIT CARD THE VENDOR THAT PROCESSES THE PAYMENTS DOES CHARGE A SERVICE FEE
IF YOU WOULD LIKE YOUR BILL E-MAILED TO YOU SEND REQUEST TO JSCHMIDT@SOUTHCENTRALWATERND.COM
IF YOU ARE INTERESTED IN AUTO PAY PLEASE CALL US AT 258-8710
USAGE ON THIS BILL IS FROM APRIL OUR OFFICE WILL BE CLOSED MONDAY, MAY 27TH HAVE A SAFE AND HAPPY HOLIDAY!

Service	Current	Past-Due	Balance
MONTHLY MINIMUM	34.00	0.00	34.00
WATER COST	2.37	0.00	2.37
Totals:	36.37	0.00	36.37
DUE DATE	06/10/2024		

THANK YOU FOR YOUR PREVIOUS PAYMENT

USAGE HISTORY IN GALLONS

MAY 2023	JUN 2023	JUL 2023	AUG 2023	SEP 2023	OCT 2023	NOV 2023	DEC 2023	JAN 2024	FEB 2024	MAR 2024	APR 2024	MAY 2024
900	6900	14900	18300	15400	9700	5400	200	100	200	100	200	800
H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD

PLEASE KEEP THIS PORTION FOR YOUR RECORDS
SOUTH CENTRAL REGIONAL WATER DISTRICT
(701) 258-8710





(701) 258-8710 • Fax (701) 223-6041
Office Hours M-Th 8-4:30 and F 8-4
www.southcentralwaternd.com

P.O. Box 4182
Bismarck, ND 58502-4182

Check here if you have had a mailing address change and indicate this change on the back of the stub.



BISMARCK PARK DISTRICT
400 E FRONT AVE
BISMARCK ND 58504-5641

Account Number:	05790400-00
Service Address:	MCDOWELL DAM HOUSE
Billing Date:	05/21/2024
Current Charges:	58.49
Past Due Charges:	0.00
Amount Due by 06/10/2024:	58.49
Amount Due After 06/10/2024:	62.49



776 Web ID

Amount Enclosed: _____

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR PAYMENT

Please Make Checks Payable to: SOUTH CENTRAL REGIONAL WATER or SCWD

Account Number:	05790400-00
Service Address:	MCDOWELL DAM HOUSE
Last Payment:	62.44 - 04/29/2024
Billing Date:	05/21/2024

BISMARCK PARK - MCDOWELL DAM
400 E FRONT AVE
BISMARCK ND 585045641

Current Reading:	05/01/2024	2145900
Previous Reading:	04/01/2024	2142300
Usage:		3600

Important Messages

REMINDER: YOU MAY NOW PAY YOUR BILL VIA DEBIT OR CREDIT CARD. YOU CAN CALL 844-793-7222 OR VISIT [HTTPS://SOUTHCENTRAL.BILLINGDOC.NET](https://southcentral.billingdoc.net) IN ORDER TO DO SO YOU WILL NEED YOUR WEB ID FROM YOUR BILL.

IF YOU PAY BY CREDIT OR DEBIT CARD THE VENDOR THAT PROCESSES THE PAYMENTS DOES CHARGE A SERVICE FEE

IF YOU WOULD LIKE YOUR BILL E-MAILED TO YOU SEND REQUEST TO JSCHMIDT@SOUTHCENTRALWATERND.COM

IF YOU ARE INTERESTED IN AUTO PAY PLEASE CALL US AT 258-8710

USAGE ON THIS BILL IS FROM APRIL. OUR OFFICE WILL BE CLOSED MONDAY, MAY 27TH. HAVE A SAFE AND HAPPY HOLIDAY!

Service	Current	Past-Due	Balance
MONTHLY MINIMUM	34.00	0.00	34.00
WATER COST	24.49	0.00	24.49
Totals:	58.49	0.00	58.49
DUE DATE			06/10/2024

THANK YOU FOR YOUR PREVIOUS PAYMENT

USAGE HISTORY IN GALLONS

MAY 2023	JUN 2023	JUL 2023	AUG 2023	SEP 2023	OCT 2023	NOV 2023	DEC 2023	JAN 2024	FEB 2024	MAR 2024	APR 2024	MAY 2024
3600	16600	34000	34000	34700	28000	3300	3100	3600	3800	3000	4100	3600
H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD	H-HELD

PLEASE KEEP THIS PORTION FOR YOUR RECORDS
SOUTH CENTRAL REGIONAL WATER DISTRICT
(701) 258-8710





200 EAST BROADWAY
PO BOX 230
STEELE, ND 58482
1.888.475.2361

Telephone No.: (701)223-7016

ACCOUNT NO: 1205800

Previous Bill	Payment/Adj	Current Billing	Total Due
\$202.52	\$202.52CR	\$202.52	\$202.52

BILL AT A GLANCE 03/01/2024
BISMARCK PARKS & REC

BALANCE FROM LAST BILLING		202.52
Payments Received	02-02	202.52CR
Previous Balance Due		.00

SUMMARY BY SERVICE TYPE

BUSINESS LINE METERED	64.00
TELEPHONE SERVICES	2.06
MISCELLANEOUS SERVICES	30.90
MANDATED FEES	4.06
INTERNET SERVICES	101.50
INTERNET SERVICES	.00

CURRENT BILLING AMOUNT 202.52

Credit Card Payment -- Do Not Pay 202.52

MESSAGE CENTER

Billing Inquiries Call: 1(888)475-2361

Payments received after 02-29 have not been applied to this statement.

To pay by credit card using BEK's Pay-by-Phone System, please call 1-844-252-5273 toll-free. Have your credit card and BEK account number ready.

The CURRENT AMOUNT of your BEK payment is due by the 20th day of each month. If you have an unpaid balance, it will be applied to your next statement plus a \$30 late fee. PAST DUE accounts are subject to disconnection on MARCH 20, 2024 unless payment or arrangements have been made prior. If your services are disconnected for nonpayment, you will be required to pay all past due balances including reconnect charges.

Payment of this invoice constitutes acceptance of the Terms and Conditions of BEK Communications services. These Terms and Conditions should be reviewed periodically as they will change from time to time and can be found at www.bek.coop or by request at 1-888-475-2361.

Federal Universal Service Charge (FUSC): The purpose of this charge is to help keep rates affordable for all customers, regardless of where they live in the U.S. as well as to assist schools, libraries and rural healthcare providers obtain leading edge telecommunications services. The Federal Communications Commission (FCC) reviews the FUSC factor each quarter. This rate may increase or decrease and will not be determined until later in the month. If there is a change, the new FUSC rate will be implemented on your next billing statement.

All BEK offices will be closed Friday, March 29th, 2024, in observance of Good Friday.

(Continued on subsequent pages)

Please return lower portion with your payment...retain upper portion for your records.
Please do not attach payment to the stub.



200 EAST BROADWAY
PO BOX 230
STEELE, ND 58482
1.888.475.2361

03/01/2024 000000

BISMARCK PARKS & REC
ACCOUNT NO: 1205800 BS
Telephone No.: (701)223-7016

Payment Due	Total Due
Invoiced	\$202.52
Enter Amount Paid	
Credit Card	

4 2969

BISMARCK PARKS & REC
400 EAST FRONT
BISMARCK ND 58504-5641

BEK COMMUNICATIONS COOPERATIVE
200 EAST BROADWAY
PO BOX 230
STEELE ND 58482-0230





200 EAST BROADWAY
PO BOX 230
STEELE, ND 58482
1.888.475.2361

Page: 3 of 3
BISMARCK PARKS & REC
ACCOUNT NO: 1205800

MONTHLY USAGE FOR Telephone No.: (701)223-7016 MEMBER NO: 22308

Service Address: 1951 93 ST NE BISMARCK, ND

Description	Qty	Amount
<i>SUMMARY FOR: McDowell Dam</i>		
Previous Balance Due		.00
BUSINESS LINE METERED 03/01-03/31		32.00
BUSINESS LINE		
CALLER ID		
BUSINESS LINE METERED SUBTOTAL		32.00
MANDATED FEES 03/01-03/31		
E911 FEE-BURLEIGH CO	1	2.00
TELECOMMUNICATIONS RELAY SERVICE FUND	1	.03
MANDATED FEES SUBTOTAL		2.03
SUB-TOTAL		34.03
CURRENT BILLING AMOUNT		34.03

Credit Card Payment -- Do Not Pay 34.03
Your long distance (InterLATA) provider is BEK LD.
Your long distance (IntraLATA) provider is BEK LD.

MONTHLY USAGE FOR Telephone No.: (701)255-7385 MEMBER NO: 22308

Service Address: 1951 93 ST NE STR 1 BISMARCK, ND

Description	Qty	Amount
<i>SUMMARY FOR: McDowell Dam-Concession/Shop</i>		
Previous Balance Due		.00
BUSINESS LINE METERED 03/01-03/31		32.00
BUSINESS LINE		
CALLER ID		
BUSINESS LINE METERED SUBTOTAL		32.00
TELEPHONE SERVICES 03/01-03/31		
ON PREMISE EXTENSION - PHONE ONLY	1	2.00
FEDERAL TAX		.06
TELEPHONE SERVICES SUBTOTAL		2.06
MANDATED FEES 03/01-03/31		
E911 FEE-BURLEIGH CO	1	2.00
TELECOMMUNICATIONS RELAY SERVICE FUND	1	.03
MANDATED FEES SUBTOTAL		2.03
SUB-TOTAL		36.09
CURRENT BILLING AMOUNT		36.09

Credit Card Payment -- Do Not Pay 36.09
Your long distance (InterLATA) provider is BEK LD.
Your long distance (IntraLATA) provider is BEK LD.

MONTHLY USAGE FOR BILLING NO: 701-101-2047 MEMBER NO: 22308

Service Address: 1951 93 ST NE BISMARCK, ND

Description	Qty	Amount
<i>SUMMARY FOR: McDowell Dam</i>		
Previous Balance Due		.00
MISCELLANEOUS SERVICES 03/01-03/31		
36 MONTH TERM AGREEMENT		
YOUR 36 MONTH TERM AGREEMENT EXPIRES ON		
04/05/24		
MISCELLANEOUS SERVICES SUBTOTAL		.00
INTERNET SERVICES 03/01-03/31		
1/2 GBPS LIGHTBAND CONNECTION	1	101.50
INTERNET SERVICES SUBTOTAL		101.50
INTERNET SERVICES		
BROADBAND USAGE - 774.52 GBS 02/29		.00
INTERNET SERVICES SUBTOTAL		.00
SUB-TOTAL		101.50
CURRENT BILLING AMOUNT		101.50

Credit Card Payment -- Do Not Pay 101.50

MONTHLY USAGE FOR INTERNET: 701-161-2230 MEMBER NO: 22308

Service Address: 1951 93 ST NE STR 2 BISMARCK, ND

Description	Qty	Amount
<i>SUMMARY FOR: McDowell Dam</i>		
Previous Balance Due		.00
MISCELLANEOUS SERVICES 03/01-03/31		
36 MONTH TERM AGREEMENT		
YOUR 36 MONTH TERM AGREEMENT EXPIRES ON		
04/05/24		

MULTI-LOCATION SERVICES	1	15.00
MULTI-LOCATION SERVICES - 1/2G LIGHTBAND		
FEDERAL TAX		.45
MISCELLANEOUS SERVICES SUBTOTAL		15.45

SUB-TOTAL 15.45

CURRENT BILLING AMOUNT 15.45

Credit Card Payment -- Do Not Pay 15.45

MONTHLY USAGE FOR INTERNET: 701-161-2431 MEMBER NO: 22308

Service Address: 1951 93 ST NE STR 1 BISMARCK, ND

Description	Qty	Amount
<i>SUMMARY FOR: McDowell Dam</i>		
Previous Balance Due		.00
MISCELLANEOUS SERVICES 03/01-03/31		
36 MONTH TERM AGREEMENT		
YOUR 36 MONTH TERM AGREEMENT EXPIRES ON		
04/05/24		

MULTI-LOCATION SERVICES	1	15.00
MULTI-LOCATION SERVICES - 1/2G LIGHTBAND		
MULTI-LOCATION SERVICES - PHONE		
FEDERAL TAX		.45
MISCELLANEOUS SERVICES SUBTOTAL		15.45

SUB-TOTAL 15.45

CURRENT BILLING AMOUNT 15.45

Credit Card Payment -- Do Not Pay 15.45



Printed On: 04/16/2024

Page 1 of 1

Document Number: 160089 / 31386
 BISMARCK PARKS AND RECREATION
 DAVID ROBINSON
 400 EAST FRONT AVENUE

Number: BIS0012

04/16/2024

BISMARCK, NORTH DAKOTA 58504
Phone: (701) 222-6455

Remarks:

Inventory Number	Description of Property	Qty Unit	Cost	Handling Charge
ND-024-2346-85-002	truck, cargo W81LBJ33330502	1	\$3,500.00	\$3,500.00

NDSASP REP: RANDY

Total: \$3,500.00
Amount Applied: \$0.00
Total Due: \$3,500.00

By signing and submitting this lower tier proposal, the prospective lower tier participant, as defined in 41 CFR 105-68, certifies to the best of its knowledge and belief that it and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency and where the prospective lower tier participant is unable to certify to any of the above, such prospective participant shall attach an explanation to this proposal.

COPY

As the authorized agent of the above donee, I accept the property listed above and

commit the donee to comply with the terms and conditions printed on the other side.

THIS IS YOUR INVOICE



13 VERTICALS
1500 MEDICAL CENTER MURFREESBORO, TN 37129

YOUR CARD PROCESSING STATEMENT

004963/000001/1489911/STMT/4963/0000/029314 000 01 000000
KATHY FEIST
BISMARCK P&R MCDOWELL DAM
400 E FRONT AVE
BISMARCK ND 58504-5641

Page 1 of 4

THIS IS NOT A BILL

Statement Period	04/01/24 - 04/30/24
Merchant Number	5166 1880 0107880
Customer Service	1-855-786-5871

SUMMARY		An overview of account activity for the statement period.	
Page 4	Amounts Submitted		0.00
Page 4	Third Party Transactions		0.00
Page 4	Adjustments/Chargebacks		0.00
Page 4	Fees Charged		<u>-\$7.50</u>
Total Amount Funded to Your Bank			-\$7.50

See page 2 for Key Definition of Terms

(Amount Submitted - Third Party) + Adjustments + Chargebacks + Fees Charged = Amount Funded

IMPORTANT INFORMATION ABOUT YOUR ACCOUNT

Bliss Law Firm, LLC
 400 East Broadway, Suite 308
 Bismarck, ND 58501

Burleigh County Water Resource District
 PO Box 1255
 Bismarck, ND 58502-1255

June 6, 2024

Invoice #526

Professional Services

	<u>Hrs/Rate</u>	<u>Amount</u>
5/3/2024 (904) Prepare for executive session on McDowell Dam easement negotiations; attend meeting.	1.00 306.00/hr	306.00
5/8/2024 (312) Prepare for Board meeting; attend Board meeting.		1,000.00
5/27/2024 (960-2) Email communications with Mgr. Jones, Mike Gunsch regarding status of Boehm trees, status of issue.	0.50 306.00/hr	153.00
For professional services rendered	<u>1.50</u>	<u>\$1,459.00</u>
Previous balance		\$6,538.60
Accounts receivable transactions		
5/9/2024 Payment - Thank You. Check No. 2206.		(\$6,538.60)
Total payments and adjustments		<u>(\$6,538.60)</u>
Balance due		<u><u>\$1,459.00</u></u>

Payment in full must be made within 30 days of the date of this bill. Past due amounts will incur an additional 1.5% monthly fee.



Fronteer Professional Services Inc
 1838 E Interstate Ave Ste B
 Bismarck, ND 58503

Date: April 30, 2024
 Invoice #: 0000003888
 Terms: Net

Burleigh Co. Water Resource District
 PO BOX 1255
 BISMARCK, ND 58502-
 (701)426-6439

Total Due: \$59.96

Detach And Return With Payment

Fronteer Professional Services Inc 1838 E Interstate Ave Ste B, Bismarck, ND 58503

Description	Amount	Total
April 2024 Presort Charges	\$59.96	\$59.96
Total:		\$59.96

Thank you for your business!



Fronteer Professional Services Inc
 1838 E Interstate Ave Ste B
 Bismarck, ND 58503

Date: May 31, 2024
 Invoice #: 0000003910
 Terms: Net

Burleigh Co. Water Resource District
 PO BOX 1255
 BISMARCK, ND 58502-
 (701)426-6439

Total Due: \$2,165.00

Detach And Return With Payment

Fronteer Professional Services Inc 1838 E Interstate Ave Ste B, Bismarck, ND 58503

Description	Amount	Total
Monthly Administrative Work - per agreement	\$2,110.00	\$2,110.00
Terminal Server Fees	\$55.00	\$55.00
Total:		\$2,165.00

Thank you for your business!

INVOICE



Remit to:
1401 21st Ave N, Fargo, ND 58102
Phone: 701.237.5065
Fed Tax ID: 45-0314557
Interest of 1%/month applied to past due invoices

Burleigh County Water Resource District
PO Box 1255
Bismarck, ND 58502-1255

Invoice Number: 71130
Date: June 06, 2024
Project Number: R084241-0000

BCWRD - General Engineering Services

For Professional Services Rendered Through: May 27, 2024
Email Invoices: BCWRD@midco.net & dwrburleighwrd@gmail.com

BCWRD Project No.: 315 - Engineering Administration

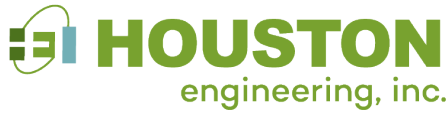
See attached Project Status Report and Invoice Description.

Fee Services	
000 - Burleigh Co. WRD - General	
Burleigh Co. WRD - General Lump Sum Total:	\$1,000.00

007 - General Services - Hourly			
Professional Services			
	Hours	Rate	Amount
Engineer 13	3.75	259.00	\$971.25
Technician 8	1.25	175.00	\$218.75
	5.00		\$1,190.00
007 - General Services - Hourly Total:			\$1,190.00

Invoice Total	\$2,190.00
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Outstanding Invoices						
Invoice Number	Invoice Date	0 - 30	31 - 60	61-90	Over 90	Balance
Total Prior Billing						



Project Status and Invoice Description

3712 Lockport Street
Bismarck, ND 58503
Phone: 701-323-0200
Fax: 701-323-0300

HEI Project No.: 4241-0000: BCWRD General Services
BCWRD Account No. 315 – Engineering Administration
Project Name: General Engineering Services

Billing Period: April 28, 2024 through May 27, 2024

Professional engineering administrative services related to routine monthly activities and issues addressed at the request and direction of the BCWRD during this billing period, including time associated with, but not limited to the following:

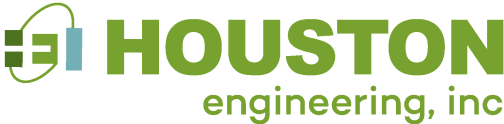
- **May Board Meeting**
- Meeting preparation and discussion, rescheduling
- Review minutes and provide agenda updates
- Various BCWRD issues, contacts, and calls
- Hourly time as noted below.

Comments:

- This invoice is for Board meeting related time along with limited contact and coordination items that are not project related. In accordance with Board direction, all costs associated with drainage complaints, stormwater plan review, and other project related activities are invoiced to assigned project numbers.
- Hourly Services were provided for this period related to follow up with the Burleigh County Floodplain Administrator related the FEMA Community Rating System (CRS) program. Other services include initial preparation of documents for the SWC Commissioner Hosted Meeting, along with the SWC planning form for the Missouri River Bank Stabilization Projects.
- Services related to the 2024 Missouri River Ice Jam and Base Flood Elevation Advisory are invoiced separately – No invoice on these for this month as work progresses.

Phase (000) General Services (retainer)	\$ 1,000.00
Phase (007) Hourly Services	\$ 1,190.00
Total	\$ 2,190.00

INVOICE



Remit to:
 1401 21st Ave N, Fargo, ND 58102
 Phone: 701.237.5065
 Fed Tax ID: 45-0314557
 Interest of 1%/month applied to past due invoices

Burleigh County Water Resource District
 PO Box 1255
 Bismarck, ND 58502-1255

Invoice Number: 71131
 Date: June 06, 2024
 Project Number: R081032-0100

McDowell Dam Recreation Area

For Professional Services Rendered Through: May 27, 2024
 BCWRD Account No.: 905

See attached Project Status Report and Invoice Description.

001 - McDowell Dam Recreation Area
 Professional Services

	Hours	Rate	Amount
Engineer 10	.50	215.00	\$107.50
Engineer 11	2.00	238.00	\$476.00
Engineer 13	1.00	259.00	\$259.00
Land Surveyor 2	.50	172.00	\$86.00
Two Person Crew	2.00	222.00	\$444.00
	8.00		\$1,372.50

Reimbursable Expenses

	Units	Rate	Amount
Unit - Company Survey/Inspection Mileage (BSK)	20.0000	.870	\$17.40
Unit - GPS (BSK)	1.0000	25.000	\$25.00
			\$42.40

001 - McDowell Dam Recreation Area Total: \$1,414.90

Invoice Total \$1,414.90

Outstanding Invoices

Invoice Number	Invoice Date	0 - 30	31 - 60	61-90	Over 90	Balance
Total Prior Billing						



Project Status and Invoice Description

3712 Lockport Street
Bismarck, ND 58503
Phone: 701-323-0200
Fax: 701-323-0300

HEI Project No.: 1032-0100: McDowell Dam Recreation Area
BCWRD Account No. 905
Project Name: McDowell Dam Recreation Area

Billing Period: *June 4, 2023 through May 27, 2024*

Professional engineering and surveying services related to activities and issues addressed at the request and direction of the BCWRD during this billing period, including time associated with, but not limited to the following:

- Discussion of the need to stabilize the shoreline at McDowell Dam near the auxiliary spillway to protect the existing pedestrian trail system.
- Conduct site topographic survey to define the extent of the protection area and project needs and coordinate office related mapping.
- The design and regulatory permitting remain to be completed.

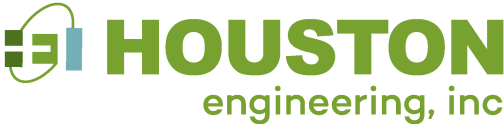
Comments:

- This stabilization project will be designed over the next few months for permitting and implementation later this summer.
- The annual EAP update remains to be completed to determine changes in ownership, names and contact information.

See accompanying invoice and cost summary for personnel cost breakdown.

Total Invoice \$ 1,414.90

INVOICE



Remit to:
 1401 21st Ave N, Fargo, ND 58102
 Phone: 701.237.5065
 Fed Tax ID: 45-0314557
 Interest of 1%/month applied to past due invoices

Burleigh County Water Resource District
 PO Box 1255
 Bismarck, ND 58502-1255

Invoice Number: 71136
 Date: June 06, 2024
 Project Number: R006025-0032

HOGUE ISLAND BANK STABILIZATION – MR 1321.89 TO MR 1322.22

For Professional Services Rendered Through: May 27, 2024
 BCWRD Account No.: 937H

See attached Project Status Report and Invoice Description.

005 - Construction Management Services
 Professional Services

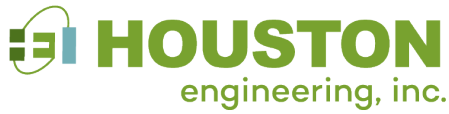
	Hours	Rate	Amount
Engineer 11	4.00	238.00	\$952.00
Engineer 13	3.00	259.00	\$777.00
	7.00		\$1,729.00

005 - Construction Management Services Total: \$1,729.00

Invoice Total \$1,729.00

Outstanding Invoices

Invoice Number	Invoice Date	0 - 30	31 - 60	61-90	Over 90	Balance
Total Prior Billing						



Project Status and Invoice Description

3712 Lockport Street
Bismarck, ND 58503
Phone: 701-323-0200
Fax: 701-323-0300

HEI Project No.: 6025-0032: Missouri River Mile 1321.89 through 1322.22
BCWRD Account No. 937H
Project Name: Hogue Island Stabilization Special Assessment District

Billing Period: *February 4, 2024 through May 27, 2024*

Professional engineering and surveying services related to Missouri River Bank Stabilization associated with the creation of the Special Assessment District by the BCWRD to protect those residential properties identified in the Preliminary Engineering Report. *This invoice is specific to the 2023 bank line erosion on the south end of Hogue Island associated only with the Residentials Stabilization Measures.*

Tasks Completed:

- Coordinated final site work with contractor based on site conditions
- Discussion of landowner trenching for sprinkler systems, which disturbed the final seeding and site work, which has now been completed
- Prepare Final Pay Request #3 and Change Order #2

Comments and Issues

- The cost to install these features will be charged to the landowners based on actual work completed on their properties.
- Some landowners requested additional rock or discussed rock placement with the Contractor directly resulting in some overages on private rock placements. These overages were done with the full cooperation and consent of the landowners and at their direction.
- Final costs and projection for Bonding Amount remains to be determined with assessments to be placed on the 2024 tax statements.

See accompanying invoice for personnel cost breakdown.

<u>Phase (005) Construction Management Services</u>	\$ 1,729.00
Total Invoice	\$ 1,729.00

INVOICE



Remit to:
 1401 21st Ave N, Fargo, ND 58102
 Phone: 701.237.5065
 Fed Tax ID: 45-0314557
 Interest of 1%/month applied to past due invoices

Burleigh County Water Resource District
 PO Box 1255
 Bismarck, ND 58502-1255

Invoice Number: 71137
 Date: June 06, 2024
 Project Number: R001032-0200

Apple-McDowell Water Supply Diversion

For Professional Services Rendered Through: May 27, 2024
 BCWRD Account No.: 905 - Capital Improvements

See attached Project Status Report and Invoice Description.

003 - Preliminary Design
 Professional Services

	Hours	Rate	Amount
Engineer 11	1.50	238.00	\$357.00
Technician 8	2.25	175.00	\$393.75
	3.75		\$750.75

003 - Preliminary Design Total: \$750.75

004 - Easement Acquisition
 Professional Services

	Hours	Rate	Amount
Engineer 11	15.50	238.00	\$3,689.00
Engineer 13	4.75	259.00	\$1,230.25
Engineer 5	3.75	176.00	\$660.00
Land Surveyor 4	2.50	203.00	\$507.50
	26.50		\$6,086.75

004 - Easement Acquisition Total: \$6,086.75

Invoice Total \$6,837.50

Outstanding Invoices

Invoice Number	Invoice Date	0 - 30	31 - 60	61-90	Over 90	Balance
Total Prior Billing						

HEI Project No.: 1032-0200
BCWRD Account No. 905
Project Name: Apple-McDowell Water Supply Diversion

Billing Period: *April 28, 2024 through May 27, 2024*

Professional engineering and surveying services related to Preliminary Design and Easement Acquisition for the Apple-McDowell Water Supply Diversion Project including, but not limited to the following:

- Discussion of easement options, landowner concerns, and consultation with legal counsel regarding next steps.
- Continued reviewing and evaluating easement alternatives and options.
- Consultations during Board Executive Sessions
- Update easement Exhibits after manager and site meetings with landowners
- Reconsider project realignments and landowner offer letters
- Update easement Exhibits after manager meetings with landowners
- Revisions to plans showing route alternative per landowner request so current

Comments:

- Offer letters will be sent shortly, with timeline for responses.
- BCWRD has elected to hold off on submitting a OHF grant application until easements are secured, or agreements are in hand for easements.

See accompanying invoice and cost summary for personnel cost breakdown.

Phase (003) Preliminary Design	\$ 750.75
Phase (004) Easement Acquisition	\$ 6,086.75
Total Invoice:	\$ 6,837.50