

2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	1/17/2024	14:55	16:55	AJW	E and Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	42 40

Number of adult Bald Eagles detected	2
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point E, A1 and A2 observed perched in Nest E Tree. Two nests directly next to one another present in the Nest E Tree. Walked along trail to eagle viewing site. A1 and A2 both perched atop Nest E Tree for the majority of the survey. Light recreation from humans included walking. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

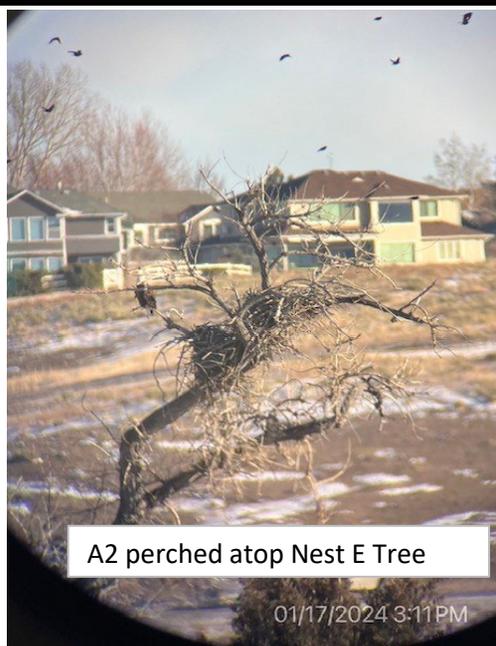
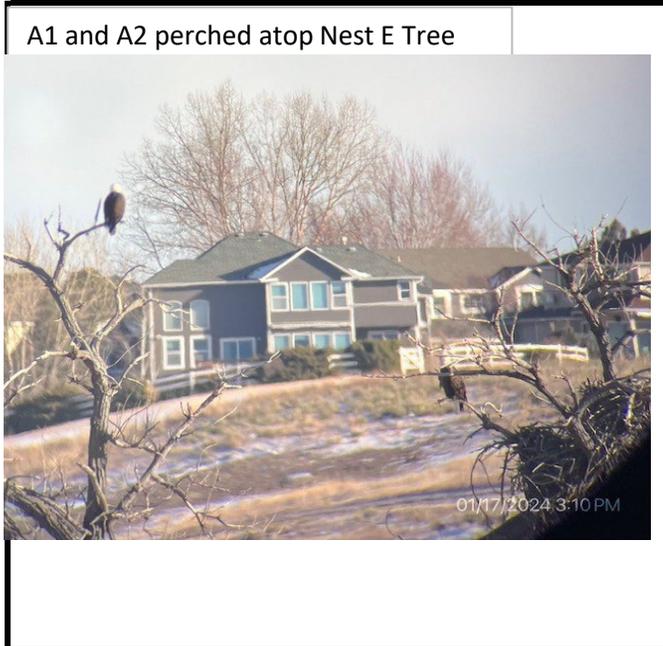
Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mnh)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Photo (s)

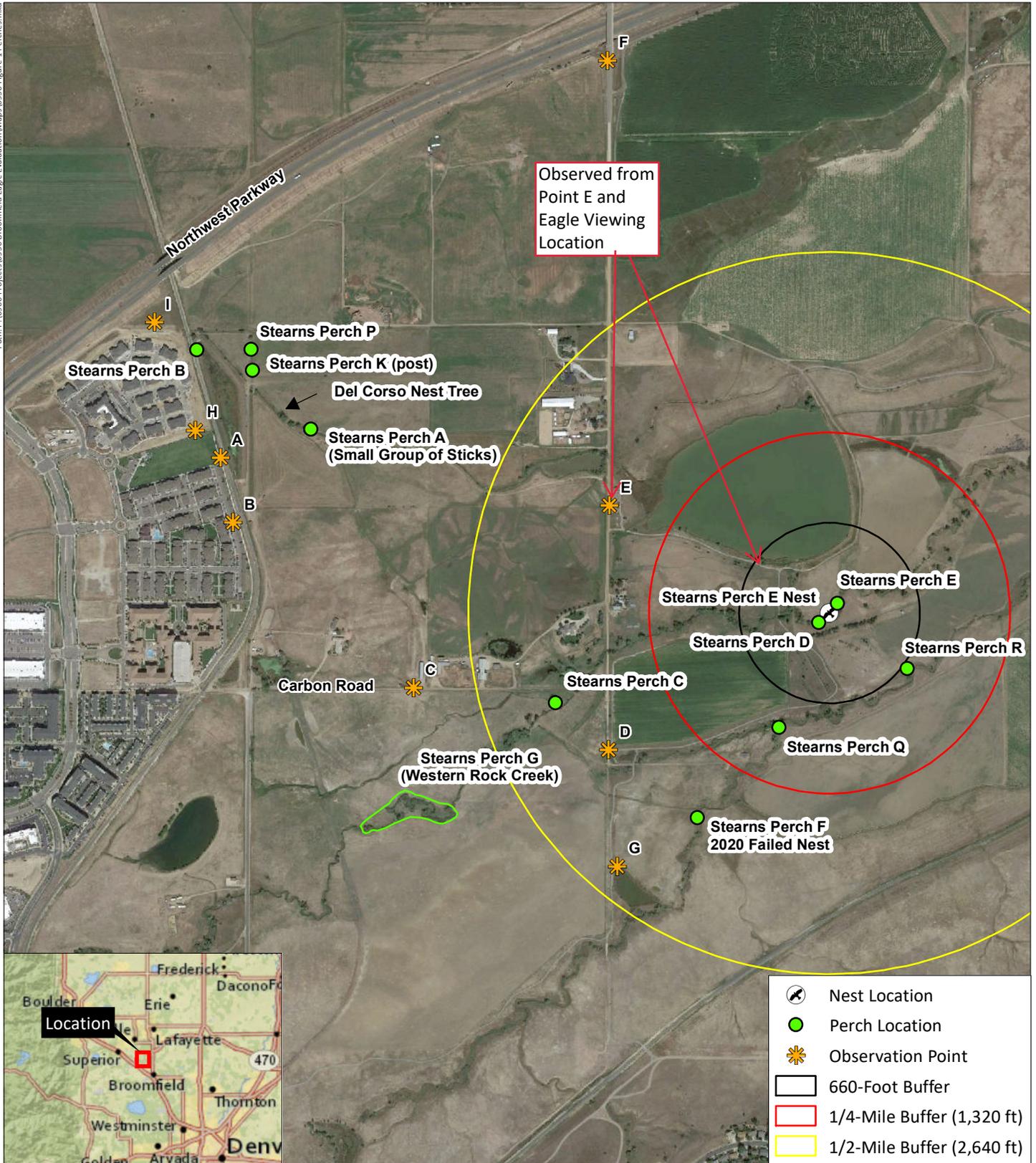


Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
14:55		P2	P2				Recreation	0	Begin survey at Obs. Pt. E; A1 and A2 observed perched atop Nest E Tree	8 mph	NW
	14:58	P2	P2				Recreation	0	A1 and A2 observed perched on different branches in Nest E Tree		
	15:01	P2	P2				Recreation	0	No Change		
	15:04	P2	P2				Recreation	0	No Change		
	15:07	P2	P2				Recreation	0	No Change		
	15:10	P2	P2				Recreation	0	No Change		
	15:13	P2	P2				Recreation	0	No Change		
15:15		P2	P2				Recreation	0	A2 joins A1 on branch atop Nest E Tree		
	15:16	P2	P2				Recreation	0	A1 and A2 perched on same branch in Nest E Tree		
	15:19	P2	P2				Recreation	0	No Change		
	15:22	P2	P2				Recreation	0	No Change		
	15:25	P2	P2				Recreation	0	No Change	8 mph	NW
	15:28	P2	P2				Recreation	0	No Change		
	15:31	P2	P2				Recreation	0	No Change		
	15:34	P2	P2				Recreation	0	No Change		
	15:37	P2	P2				Recreation	0	No Change		
	15:40	P2	P2				Recreation	0	No Change		
	15:43	P2	P2				Recreation	0	No Change		
	15:46	P2	P2				Recreation	0	No Change		
	15:49	P2	P2				Recreation	0	No Change		
	15:52	PR	P2				Recreation	0	A1 preening		
	15:55	P2	P2				Recreation	0	A1 and A2 perched on same branch in Nest E Tree	9 mph	NW
	15:58	P2	P2				Recreation	0	No Change		
	16:01	P2	P2				Recreation	0	No Change		
	16:04	P2	P2				Recreation	0	No Change		
	16:07	P2	P2				Recreation	0	No Change		
	16:10	P2	P2				Recreation	0	No Change		
	16:13	P2	Fly				Recreation	0	A2 flies off top branch of Nest E Tree and soars above Pdogs to the west		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

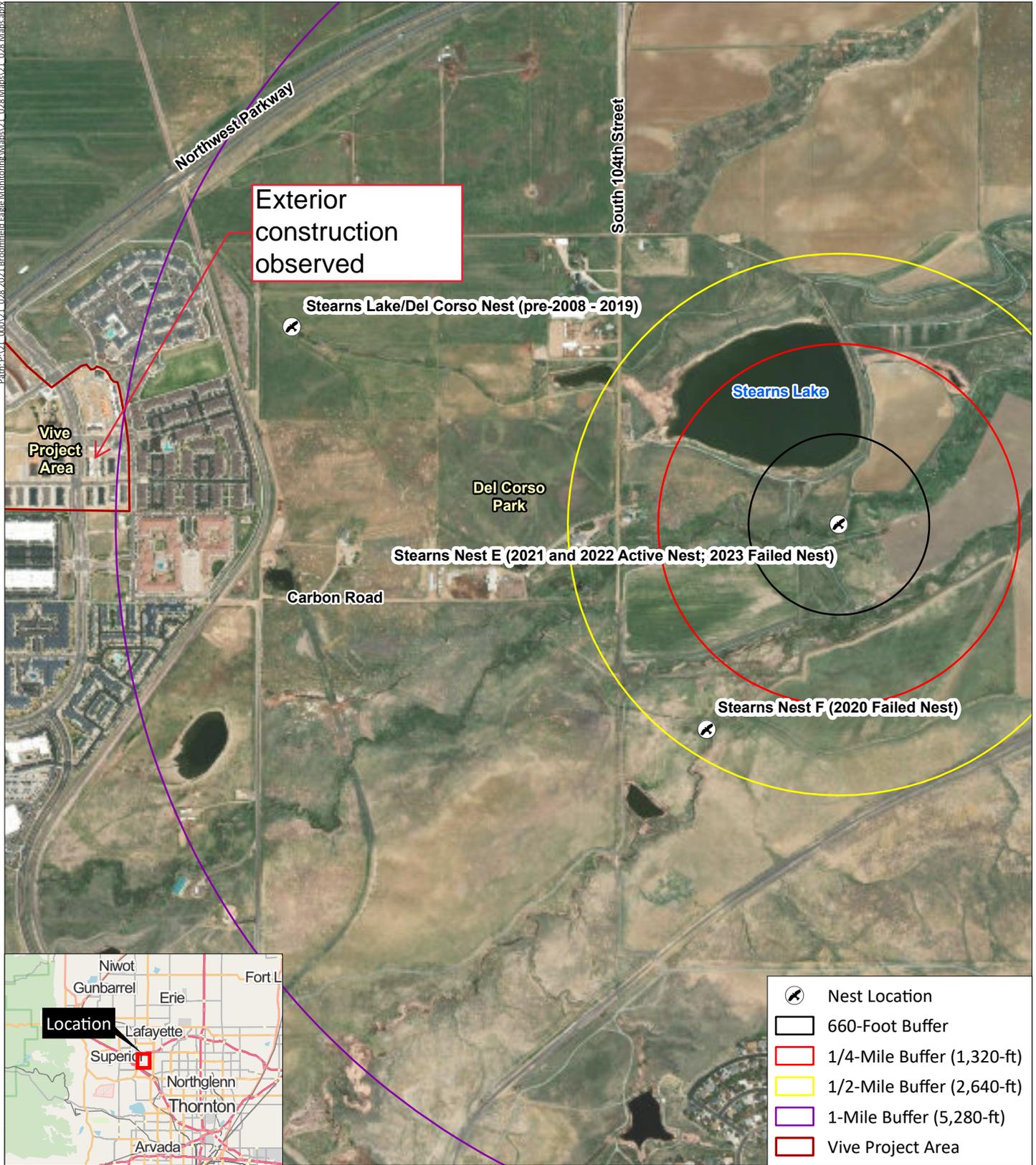
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 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
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 Image Source: Maxar Technologies© May 5, 2023

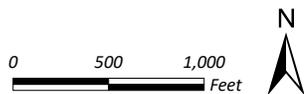


Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	2/14/2024	9:42	10:46	IMM	E and Viewing area	PC
Noise	Start	NA	End	NA	Temp (F)	39 48

Number of adult Bald Eagles detected	1
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
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NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
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Please include additional notes and comments below:

Survey began at Observation Point E and then walked along trail to eagle viewing site. A1 observed incubating in nest (NI) at Perch E. Two nests directly next to one another present in the Nest E Tree. Light recreation from humans included walking, biking, and running. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

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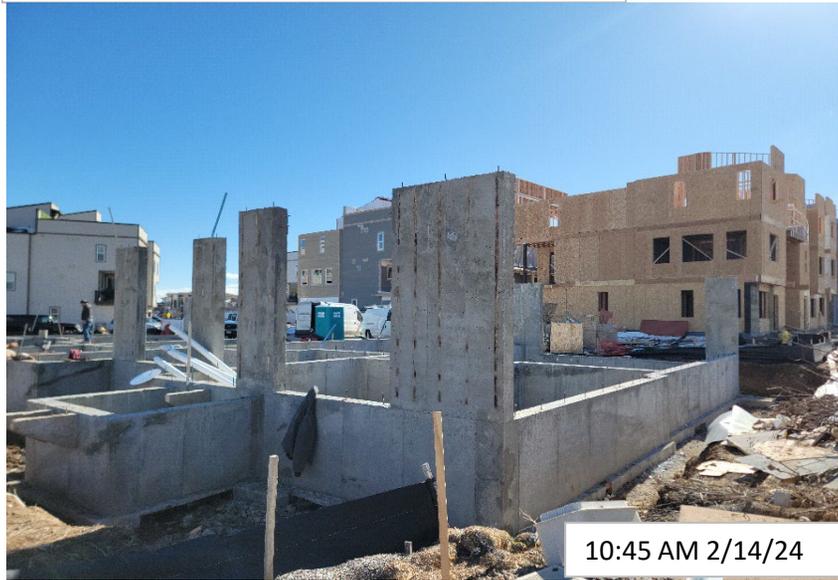
Photo (s)

A1 nest incubating.



10:02 AM 2/14/24

Exterior construction at Vive site



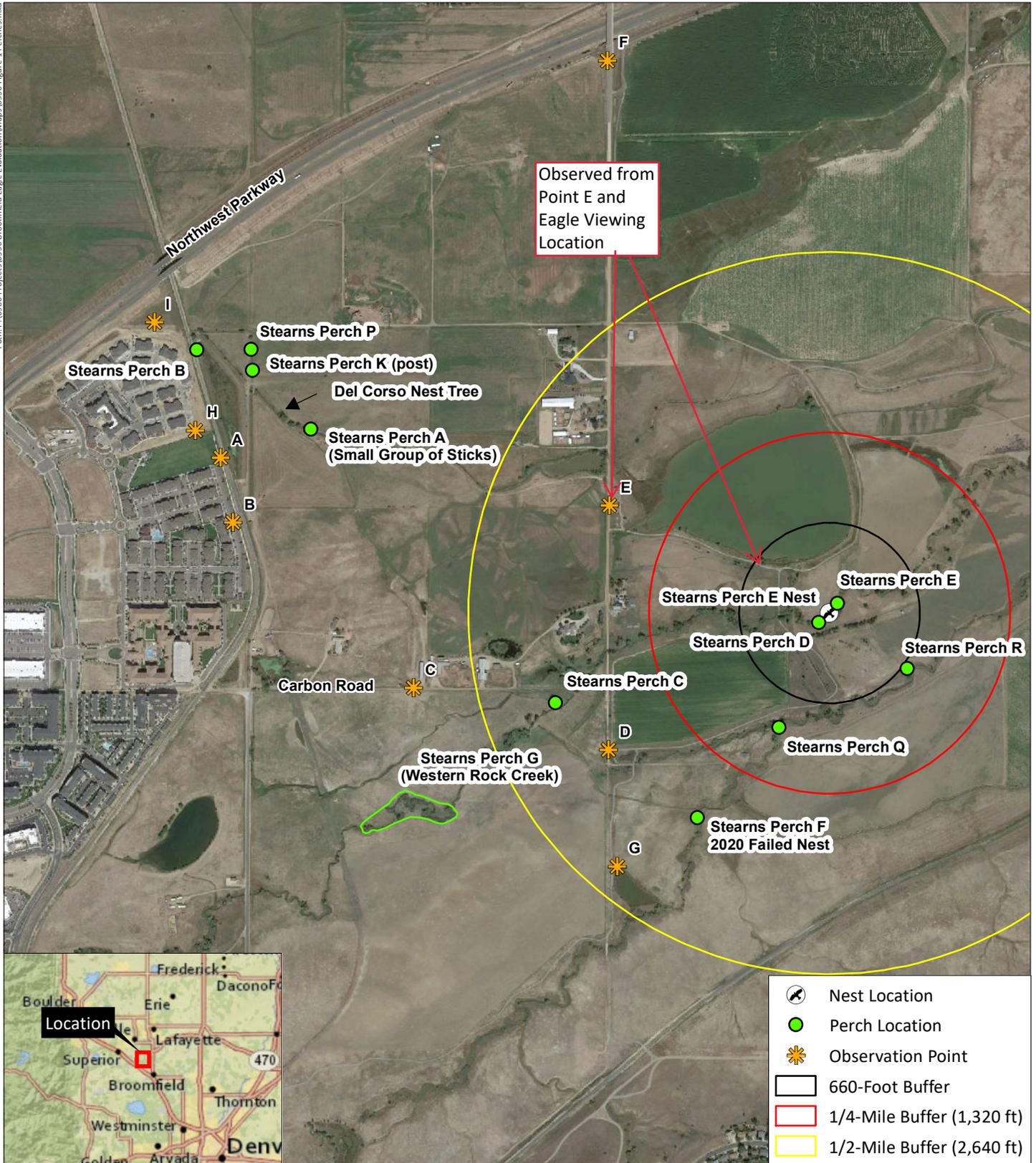
10:45 AM 2/14/24

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
9:42		P1	NV				Recreation	0	Begin survey at Obs. Pt. E; A1 observed at Perch E on nest.	5 mph	NE
	9:45	P1	NV				Recreation	0	No Change		
	9:48	NI	NV				Recreation	0	Arrive at Eagle Viewing Location. A1 is incubating. A2 not visible.		
	9:51	NI	NV				Recreation	0	No Change		
	9:54	NI	NV				Recreation	0	No Change		
	9:57	NI	NV				Recreation	0	No Change		
	10:00	NI	NV				Recreation	0	No Change		
	10:03	NI	NV				Recreation	0	No Change		
	10:06	NI	NV				Recreation	0	No Change		
	10:09	NI	NV				Recreation	0	No Change		
	10:12	NI	NV				Recreation	0	No Change	6 mph	E
	10:15	NI	NV				Recreation	0	No Change		
	10:18	NI	NV				Recreation	0	No Change		
	10:21	NI	NV				Recreation	0	No Change		
	10:24	NI	NV				Recreation	0	No Change		
	10:27	NI	NV				Recreation	0	Walk back to car.		
	10:30	NI	NV				Recreation	0	No Change		
	10:33	NV	NV				None	0	Arrive at car. Drive to Vive construction site.		
	10:36	NV	NV				None	0	No Change		
	10:39	NV	NV				None	0	No Change		
	10:42	NV	NV				None	0	Arrive at construction site. Walk to construction		
	10:45	NV	NV				None	0	No Change	6 mph	E
10:46		NV	NV				None	0	Return to car. End of survey.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

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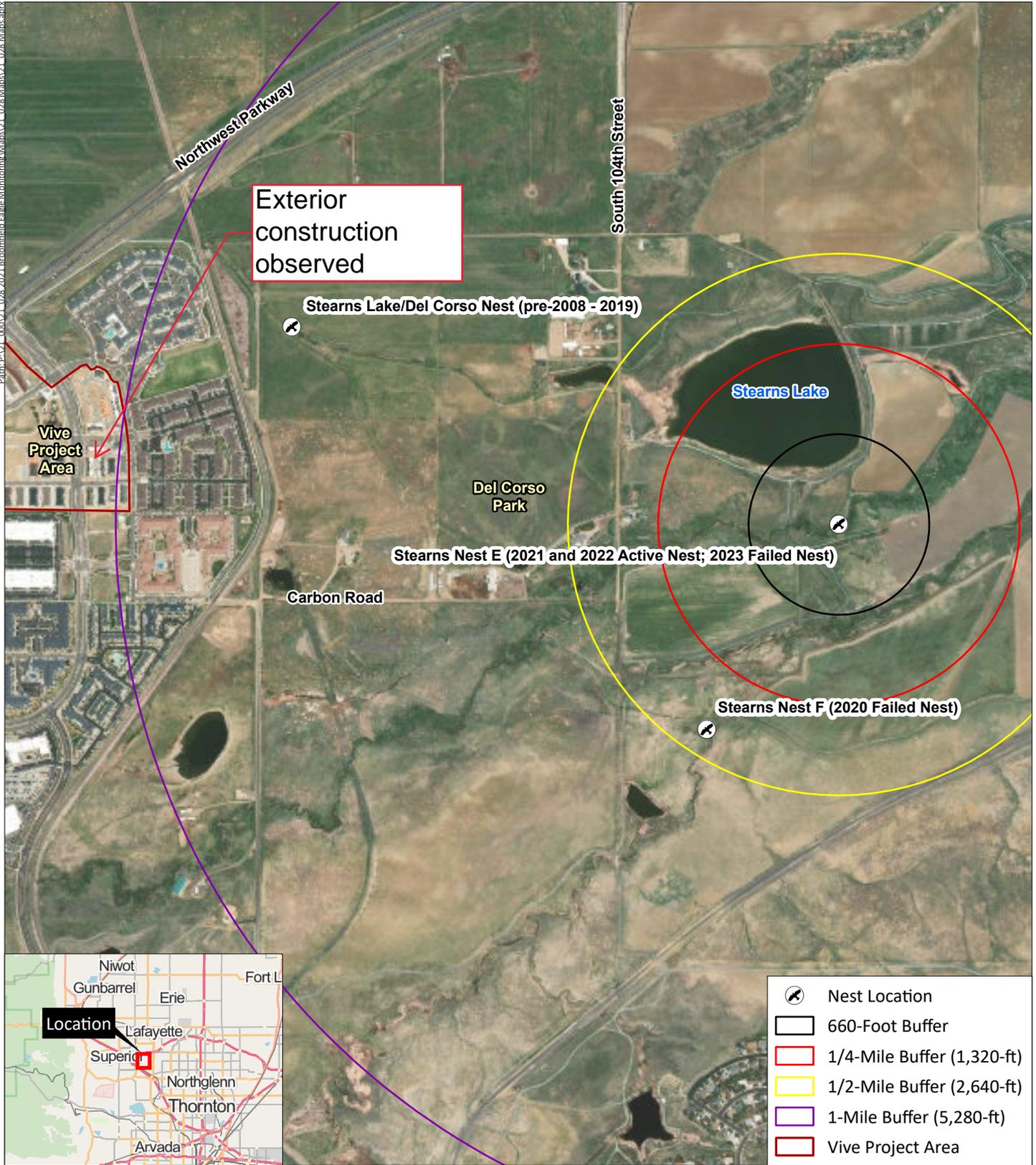
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Figure 1
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 Common Perch Locations

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 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
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Stearns Lake Eagle Nest Monitoring

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Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	2/19/2024	8:03	9:05	HNG	E and Viewing Area	CL
Noise	Start	NA	End	NA	Temp (F)	44 48

Number of adult Bald Eagles detected	1
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
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5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point E and then walked along trail to eagle viewing site. A1 observed incubating at Stearns Perch E Nest. Two nests directly next to one another present in the Nest E Tree. Light recreation from humans included walking, biking, and running. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
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Eagle ID Examples
A1 - Adult 1
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RA	Rain
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Wind Codes	Speed (mph)	Description
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1	1-3	Wind direction visible in smoke
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6	25-31	Large branches in motion
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Used as a back-up to anemometer

Photo (s)

A1 nest incubating.



8:023 AM 2/19/24

Exterior construction at Vive site



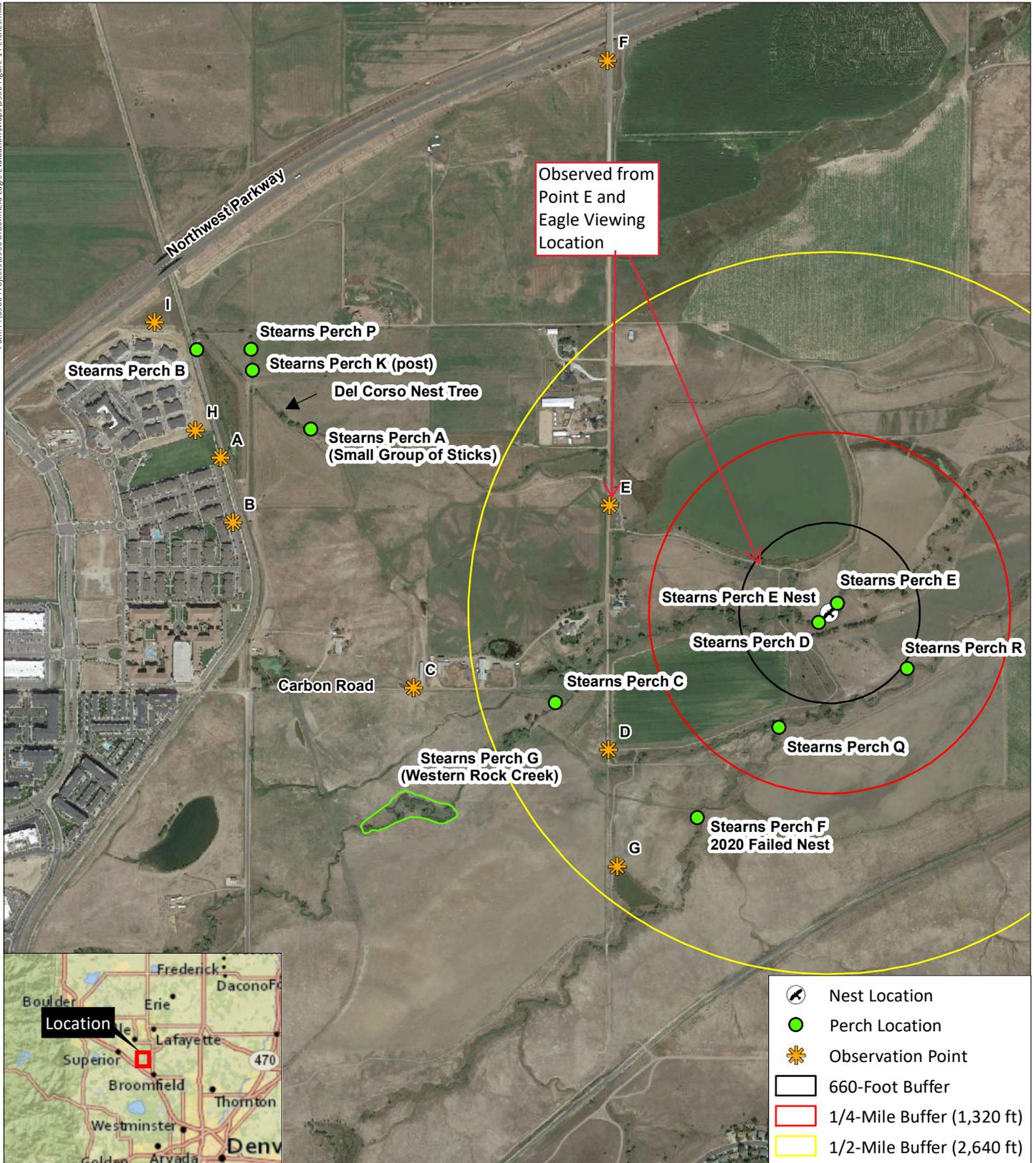
9:05 AM 2/19/24

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
8:03		NI	NV				Recreation	0	Begin survey at trailhead gazebo (Obs. Pt. E); A1 incubating, A2 not visible	0 mph	NA
	8:06	NI	NV				Recreation	0	No Change		
	8:09	NI	NV				Recreation	0	No Change		
	8:12	NI	NV				Recreation	0	No Change		
	8:15	NI	NV				Recreation	0	Leave gazebo to walk down trail toward Eagle Viewing Location		
	8:18	NI	NV				Recreation	0	Stop along trail to observed red-tailed hawk at Perch R		
	8:21	NI	NV				Recreation	0	Arrive at Eagle Viewing Location. A1 still incubating. A2 not visible.		
	8:24	NI	NV				Recreation	0	No Change		
	8:27	NI	NV				Recreation	0	No Change		
	8:30	NI	NV				Recreation	0	No Change		
	8:33	NI	NV				Recreation	0	No Change	0 mph	NA
	8:36	NI	NV				Recreation	0	No Change		
8:37		NI	NV				Recreation	0	Leave Eagle Viewing Location to walk towards car.		
	8:39	NI	NV				Recreation	0	No Change		
	8:42	NI	NV				Recreation	0	Arrive at trailhead gazebo (Obs. Pt. E); A1 still incubating, A2 not visible		
	8:45	NI	NV				Recreation	0	No Change		
	8:48	NV	NV				Recreation	0	Leave Obs. Pt E to drive to Vive construction site.		
	8:51	NV	NV				None	0	While driving, a Northern harrier is observed on 104th north of Obs. Pt. E.		
	8:54	NV	NV				None	0	driving		
	8:57	NV	NV				None	0	driving		
	9:00	NV	NV				None	0	Arrive at Del Corso park; no birds observed near Del Corso Nest Tree		
	9:03	NV	NV				None	0	Arrive at Vive project area; construction ongoing	0 mph	NA
9:05		NV	NV				None	0	Drive past Vive to view Stearns Perch A; no birds or nest observed. End of Survey.		

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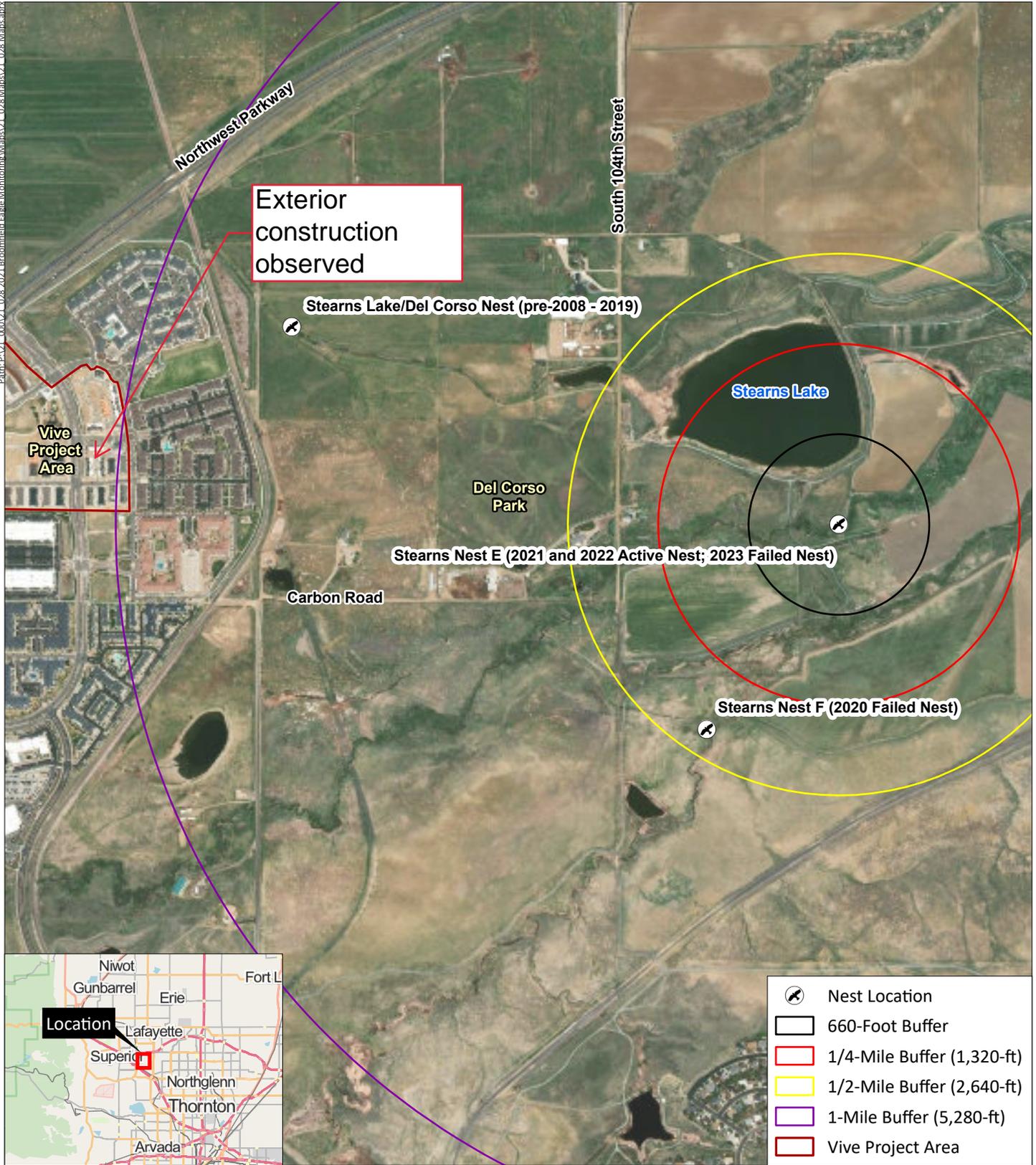
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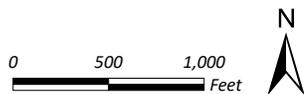


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Stearns	3/19/2024	1:27	2:27	JJD	E and Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	57 57

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Number of nestlings detected	1
Number of fledglings detected	0

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Survey began at Observation Point E and then walked along trail to eagle viewing site. A1 observed sitting in Stearns Perch E Nest. A2 observed in tree southwest of nest tree. Y1 was observed in nest being fed by A1. Two nests directly next to one another present in the Nest E Tree. Initially heavy recreation from a bird watcher group of about 20 people at observation area, left at beginning of survey. Light recreation from humans included walking, biking, and running throughout remainder of survey. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



A1 standing up in nest

1:31 PM 3/19/24



Exterior construction at Vive site

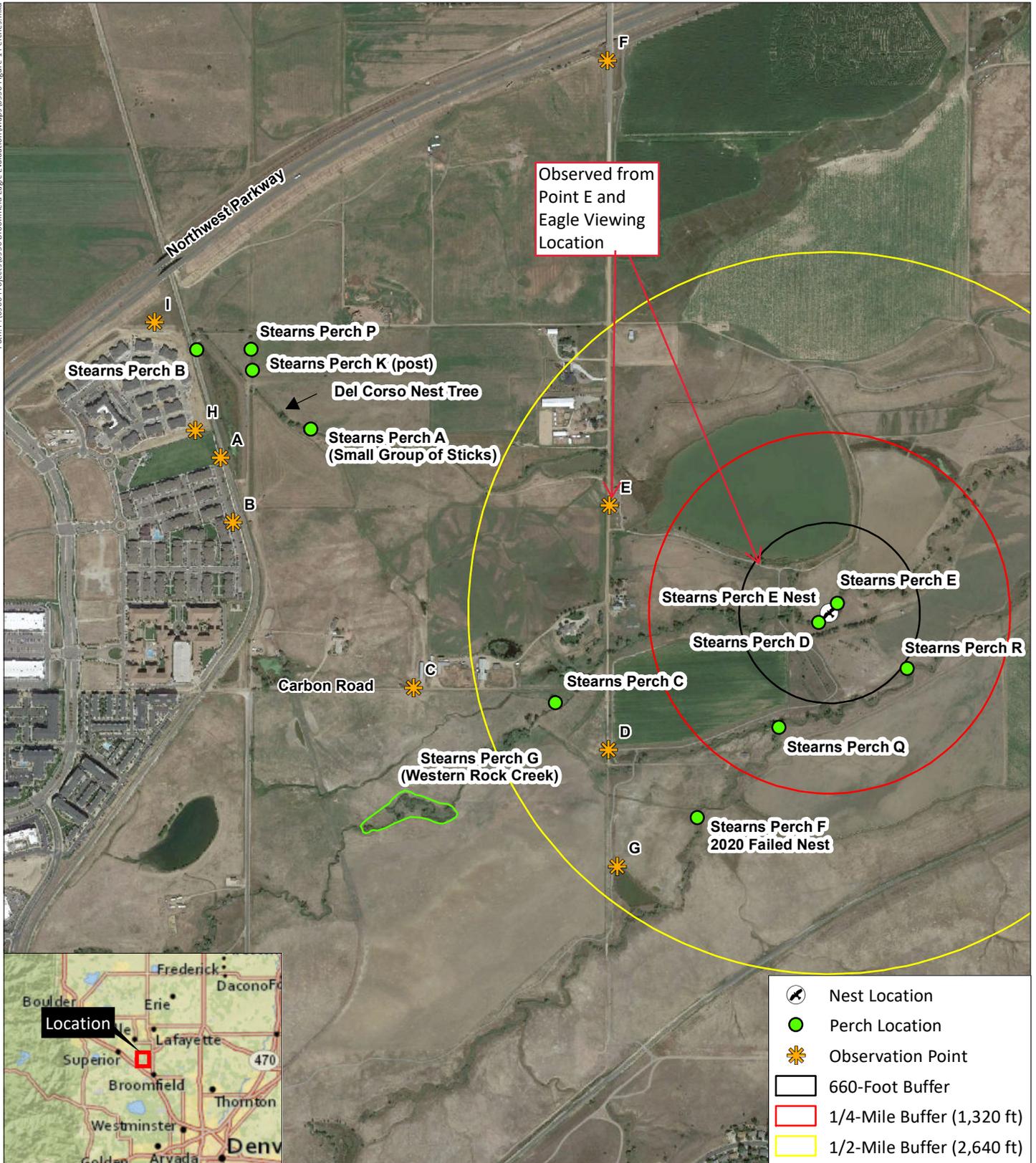
2:37 PM 3/19/24

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
13:27		P1	NV	NV			Recreation	0	Begin at gazebo (Obs. Pt. E); A1 standing in nest. A2 not visible.	3 mph	SE
	13:27	P1	NV	NV			Recreation	0	Crowd (20 people) at observation area.		
	13:30	P1	NV	NV			Recreation	0	Walking to observation area; No Change		
13:31		P1	NV	NV			Recreation	0	Arrive at observation area. Crowd leaves.		
	13:33	FS	NV	NV			None	0	A1 feeding self.		
	13:36	P1	NV	NV			None	0	A1 sits in nest.		
	13:39	P1	NV	NV			Recreation	0	Runner goes by. No Change		
	13:42	P1	NV	NV			None	0	No Change		
	13:45	P1	NV	NV			None	0	No Change		
	13:48	P1	NV	NV			None	0	No Change		
13:50		P1	NV	NV			Recreation	0	Biker rides by. No Change.	3 mph	SE
	13:51	P1	P3	NV			None	0	A2 observed perched in tree west of nest.		
	13:54	P1	P3	NV			None	0	No Change		
	13:57	P1	P3	NV			None	0	No Change		
	14:00	P1	P3	NV			None	0	No Change		
	14:03	P1	P3	NV			None	0	No Change		
	14:06	P1	P3	NV			None	0	No Change		
	14:09	P1	P3	NV			Recreation	0	Hiker walks by. No Change.		
	14:12	P1	P3	NV			Recreation	0	Hiker walks by. No Change.		
14:13		P1	P3	Y1			None	0	A1 stands up in nest, observed feeding Y1.		
14:14		FY	P3	NV			Recreation	0	Hiker with dog splashing in lake. Y1 no longer visible.		
	14:15	P1	P3	NV			Recreation	0	No Change	3 mph	SE
14:16		P1	Fly	NV			None	0	A2 flies overhead to the northwest.		
	14:18	FY	NV	Y1			None	0	A1 feeds Y1. A2 no longer visible.		
	14:21	P1	NV	Y1			Recreation	0	Biker rides by. No Change.		
	14:24	P1	NV	NV			None	0	Y1 no longer visible.	3 mph	SE
	14:27	P1	NV	NV			None	0	End Survey.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

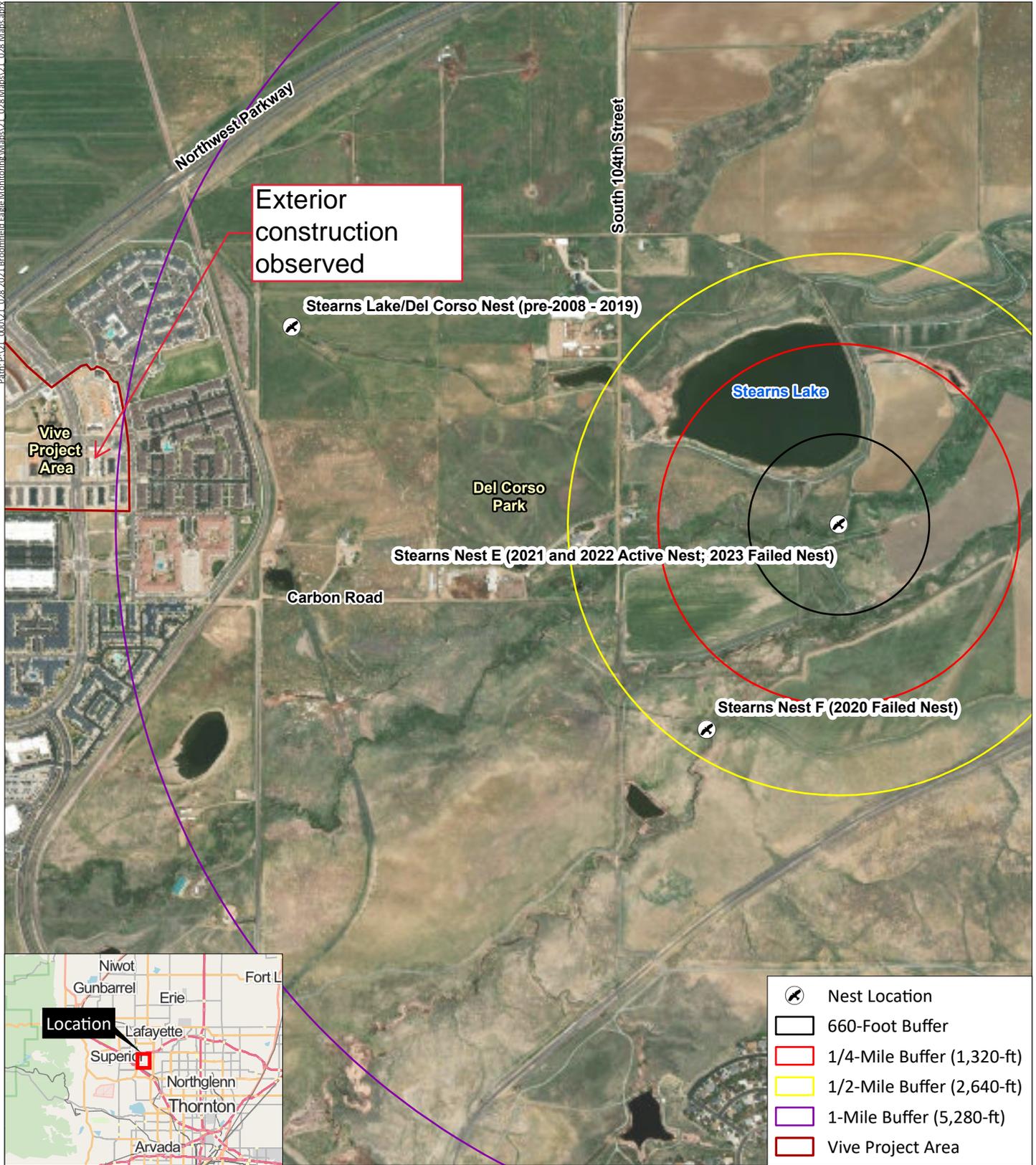
Sections 21,22, 27, and 28, T1S, R69W; 6th PM
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 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
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 Longitude 105.117848°W, Latitude 39.948812°N
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 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	3/27/2024	12:25	13:28	EMO	E and Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	45 50

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

². Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

A1 was observed in the nest with Y1. A1 fed itself, preened, and moved sticks in the nest throughout the survey. A2 was briefly observed flying northwest of the nest. No disturbance indicators were observed. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
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Used as a back-up to anemometer

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Photo (s)

A1 standing up in nest



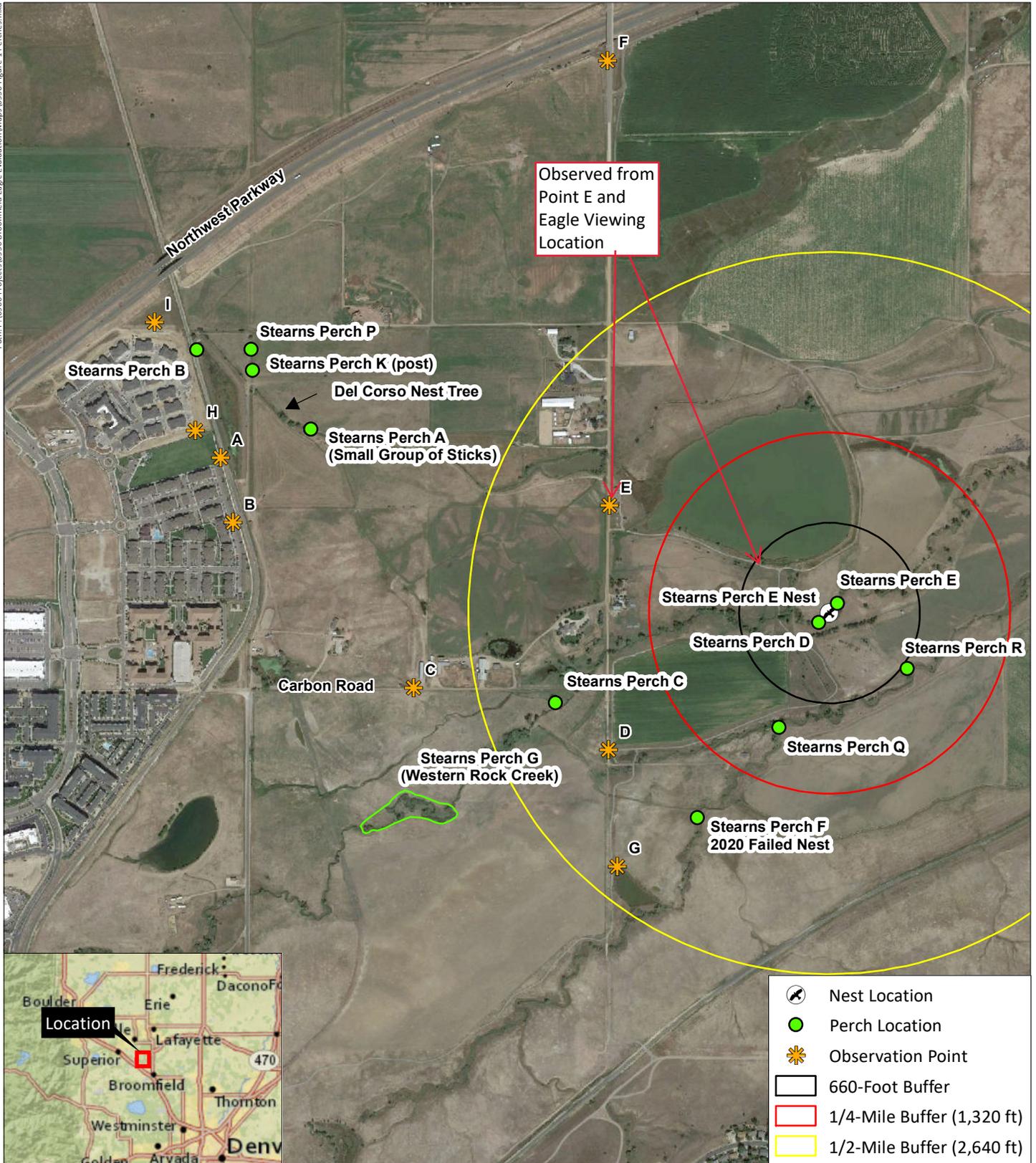
Exterior construction at Vive site



Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	12:25	NB	NV	NV			None	0	Arrive at eagle viewing location, A1 is sitting low in the nest	NE	2
12:26		FS	NV	P1			None	0	A1 stand and Y1 is observed, A1 begins feeding self		
	12:28	FS	NV	P1			None	0	A1 feeds self		
	12:31	FS	FLY	P1			None	0	A2 is observed flying directly behind the nest to the east		
	12:34	P1	FLY	PR			None	0	Y1 preens, A1 perched, A2 flying and trending northeast	NE	2
	12:37	P2	NV	PR			None	0	Y1 preens, A1 perched, A2 out of view		
	12:40	P1	NV	P1			Low plane	0	Low plane flies over, no response		
	12:43	P1	NV	P1			Low plane	0	Low plane flies over, no response		
	12:46	NB	NV	P1			None	0	A1 nest brooding		
	12:49	NB	NV	P1			None	0	No new observations		
	12:52	NB	NV	P1			None	0	No new observations		
	12:55	NB	NV	P1			None	0	No new observations	NE	1
	12:58	NB	NV	P1			None	0	No new observations		
	13:01	NB	NV	P1			None	0	No new observations		
	13:04	NB	NV	P1			None	0	No new observations		
	13:07	NB	NV	P1			None	0	No new observations		
	13:10	NC	NV	P1			None	0	A1 adjust sticks in the nest		
	13:13	NB	NV	P1			Low plane	0	Low plane flies over, no response		
	13:16	NB	NV	P1			None	0	A1 nest brooding		
	13:19	NB	NV	P1			None	0	A1 nest brooding		
	13:22	NB	NV	P1			None	0	A1 nest brooding		
13:23		NC	NV	P1			None	0	A1 adjust sticks in the nest	NE	2
	13:25	NB	NV	P1			None	0	A1 nest brooding		
13:28		NB	NV	P1			None	0	A1 and Y1 low in nest, chatted with a local, concluded survey		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

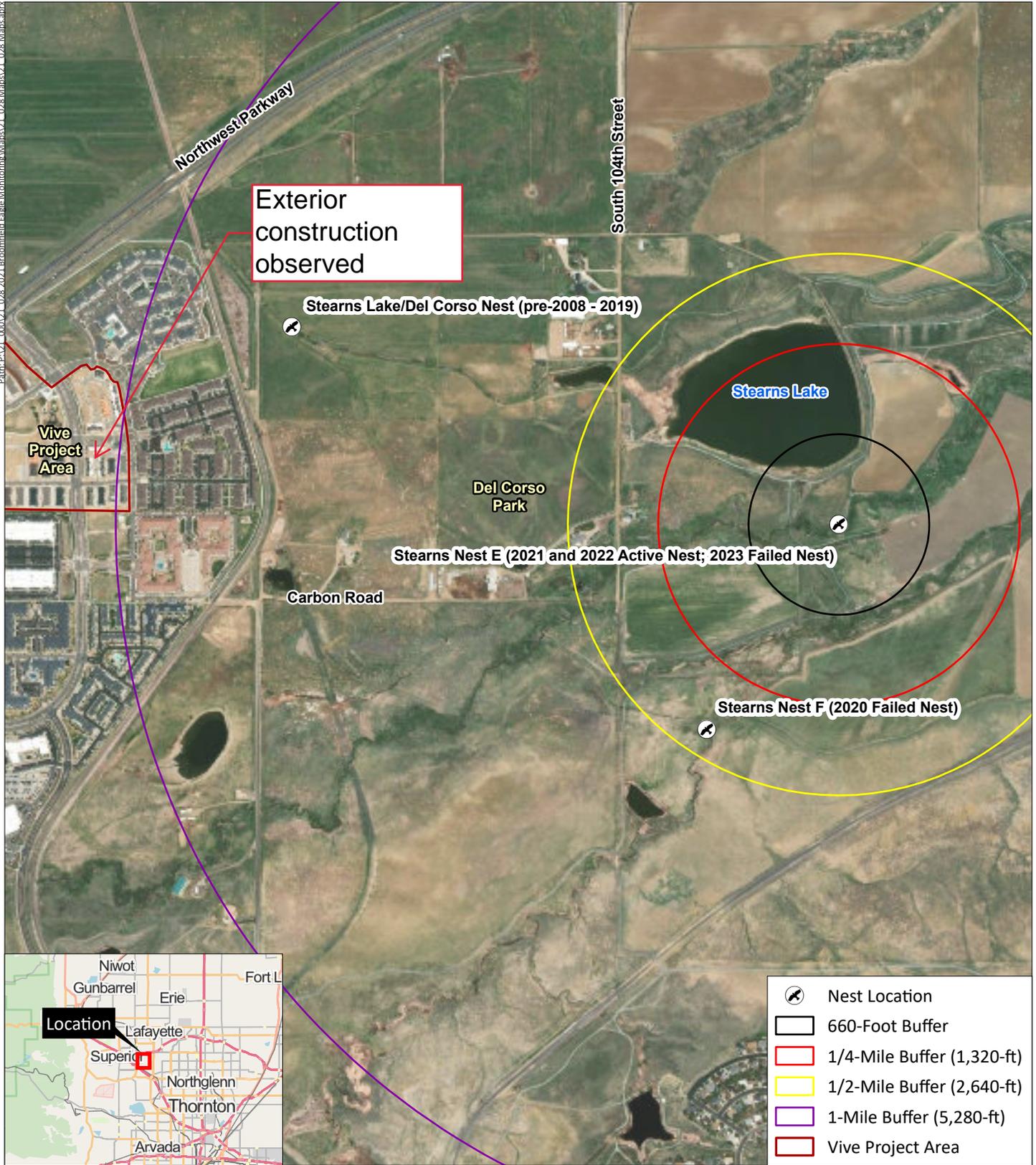
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 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





- Nest Location
- 660-Foot Buffer
- 1/4-Mile Buffer (1,320-ft)
- 1/2-Mile Buffer (2,640-ft)
- 1-Mile Buffer (5,280-ft)
- Vive Project Area

Stearns Lake Eagle Nest Monitoring

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 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	4/12/2024	1:07	2:07	JJD	E and Viewing Area	CL
Noise	Start	NA	End	NA	Temp (F)	73

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
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*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point E and then walked along trail to eagle viewing site. A1 observed on the ground on the northern edge of the lake. Arrive at eagle viewing location, A2 observed in nest. Y1 was observed in nest being fed by A1. Light recreation from humans included walking, biking, and running throughout survey. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

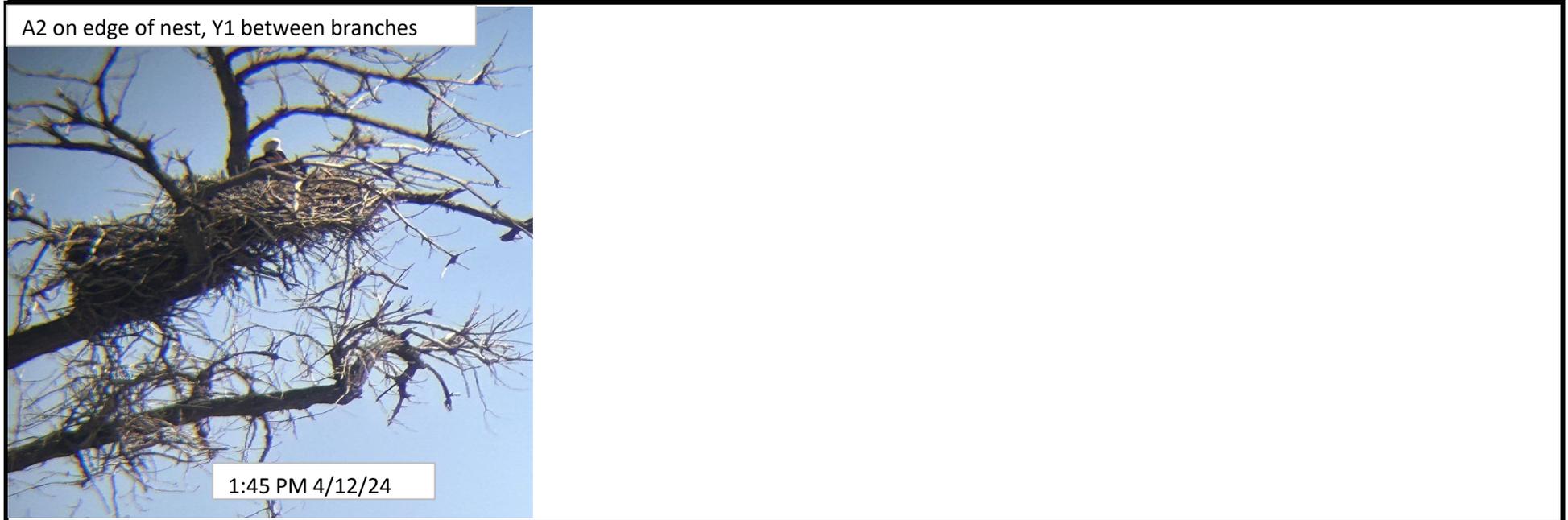
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6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
13:07		P5	NV	NV			Recreation	0	Begin at Obs Pt E. A1 observed on ground on northern edge of lake. Walking to eagle viewing area.	9	SE
	13:10	P5	NV	NV			Recreation	0	No change.		
	13:13	P5	P1	NV			Recreation	0	Arrive at observation area, A2 observed in Stearns Perch E Nest.		
	13:16	P5	P1	NV			Recreation	0	No change.		
13:18		Fly	P1	NV			Recreation	0	A1 perches on fence next to lake, biker passes by observation area.		
	13:19	P5	P1	NV			Recreation	0	No change.		
13:21		P5	P1	P1			Recreation	0	Y1 observed in nest.		
	13:22	Fly	P1	P1			Recreation	0	Biker passes by observation area, A1 flies northwest, no longer visible.		
	13:25	NV	P1	P1			Recreation	0	No change.		
	13:28	NV	P1	P1			Recreation	0	No change.		
13:29		NV	P1	P1			Recreation	0	Biker passes by observation area.	9	SE
13:30		NV	P1	P1			Recreation	0	Two bikers pass by observation area.		
	13:31	NV	P1	P1			Recreation	0	No change.		
	13:34	NV	P1	P1			Recreation	0	A runner and biker pass by observation area.		
13:35		NV	P1	P1			Recreation	0	Two bikers pass by observation area.		
13:36		NV	P1	P1			Recreation	0	Two red tailed hawks observed flying east of Stearns Perch Nest E.		
	13:37	NV	Fly	P1			Recreation	0	A2 flies southwest, no longer visible.		
	13:40	NV	NV	P1			Recreation	0	No change.		
13:41		NV	NV	P1			Recreation	0	Two runners pass by observation area.		
13:42		NV	Fly	P1			Recreation	0	A2 lands on edge of Stearns Perch E Nest.		
	13:43	NV	P1	P1			Recreation	0	No change.		
13:44		NV	FY	FS			Recreation	0	A2 feeds Y1.	14	E
	13:46	NV	P1	P1			Recreation	0	No change.		
13:47		NV	P1	P1			Recreation	0	Two people hike by observation area.		
13:48		NV	P1	P1			Recreation	0	Biker passes by observation area.		
	13:49	NV	P1	P1			Recreation	0	No change.		
	13:52	NV	P1	P1			Recreation	0	No change.		
	13:55	NV	P1	P1			Recreation	0	No change.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

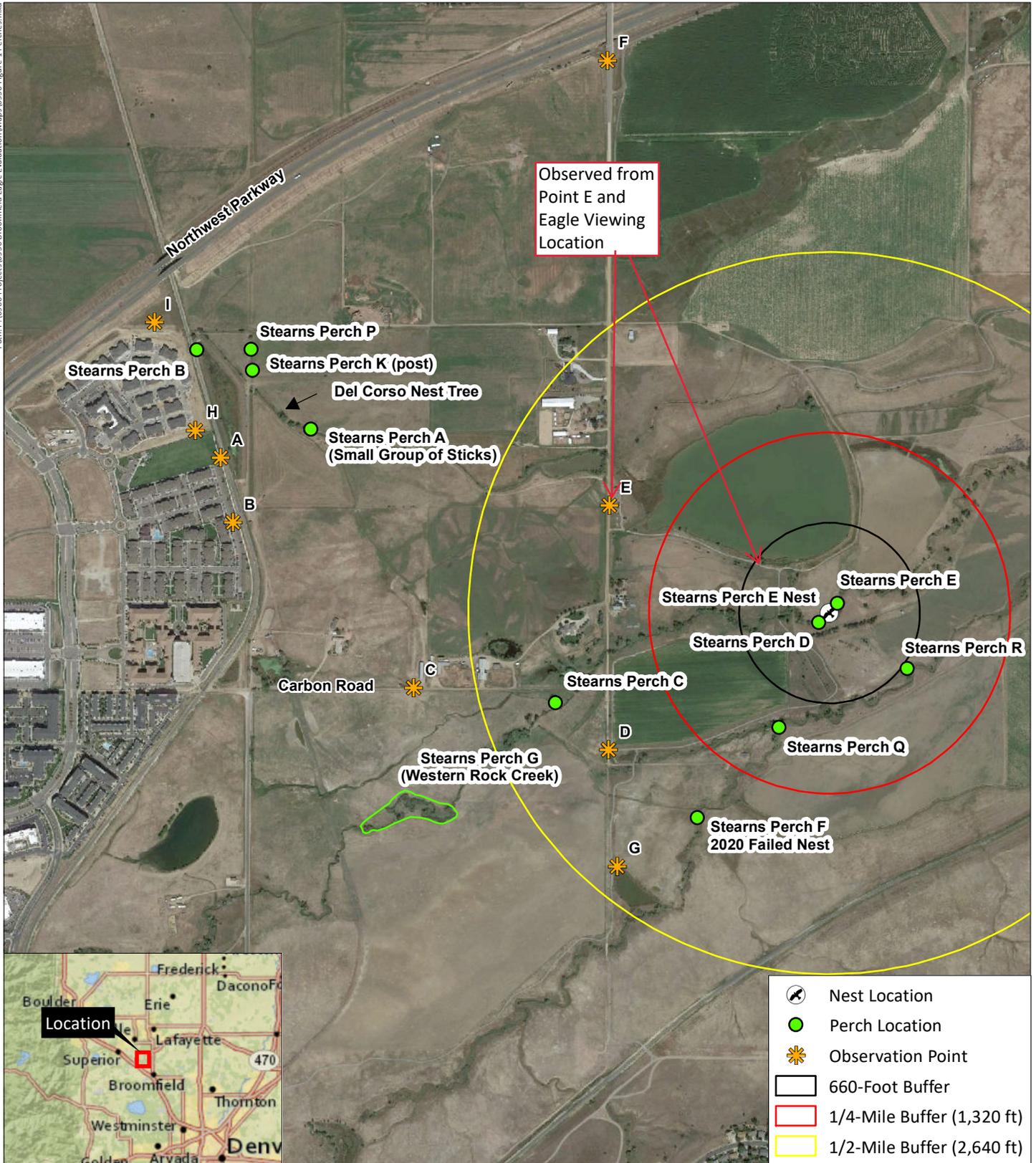
Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other

	13:58	NV	P1	P1		Recreation	0	No change.	9	SE
	14:01	NV	P1	P1		Recreation	0	Hiker passes by observation area.		
14:02		NV	P1	P1		Recreation	0	Biker passes by observation area.		
	14:04	NV	P1	P1		Recreation	0	No change.		
	14:07	NV	P1	P1		Recreation	0	No change. End Survey.	9	SE

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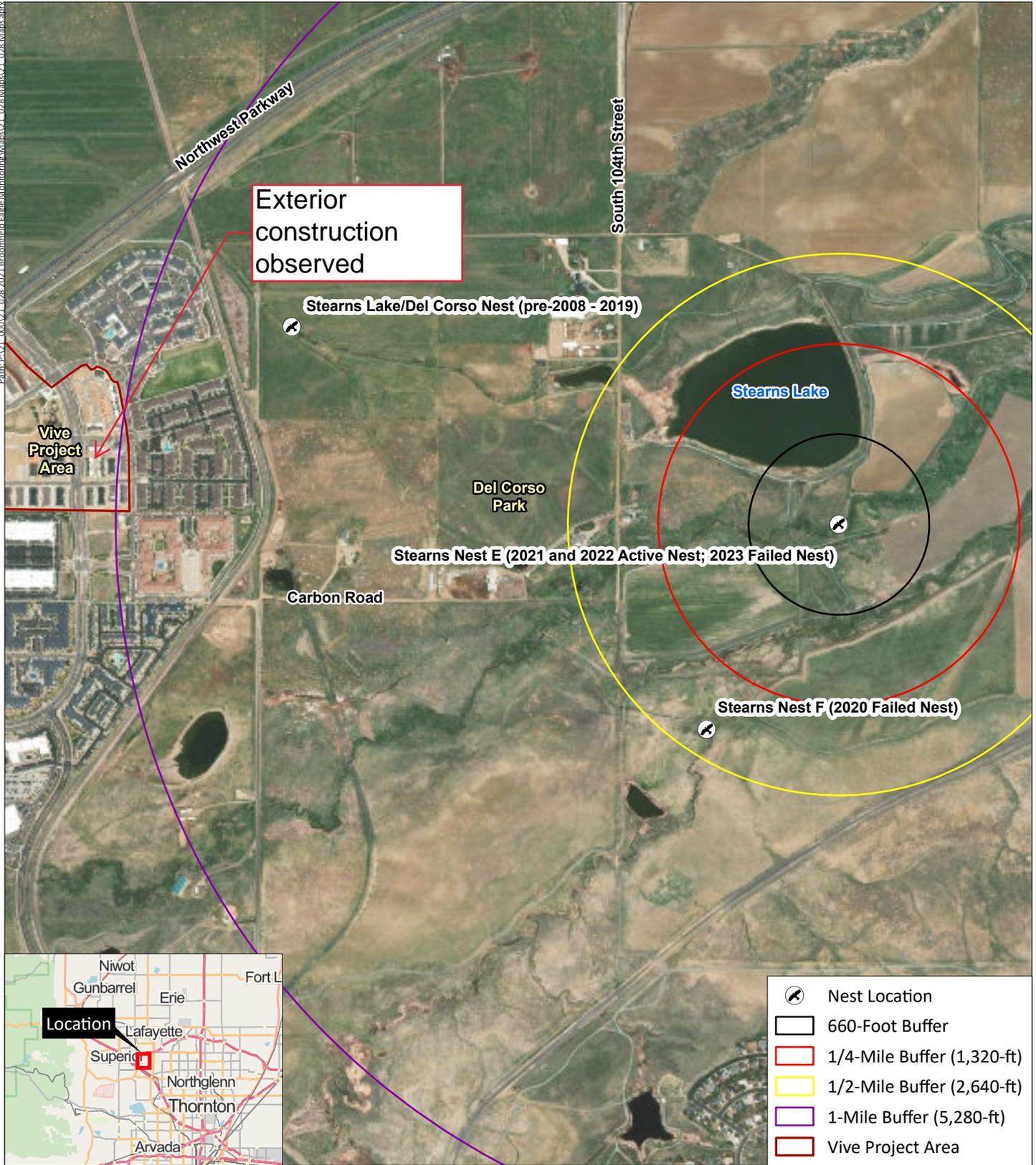
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 October 27, 2020





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- 1/4-Mile Buffer (1,320-ft)
- 1/2-Mile Buffer (2,640-ft)
- 1-Mile Buffer (5,280-ft)
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Nest Locations and Buffers
2018 - 2023

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 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	4/24/2024	11:30	12:30	EEC	E and Viewing Area	CL
Noise	Start	NA	End	NA	Temp (F)	64 68

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
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Behaviors ^A
P- Perched ¹ (A)
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Please include additional notes and comments below:

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SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mnh)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



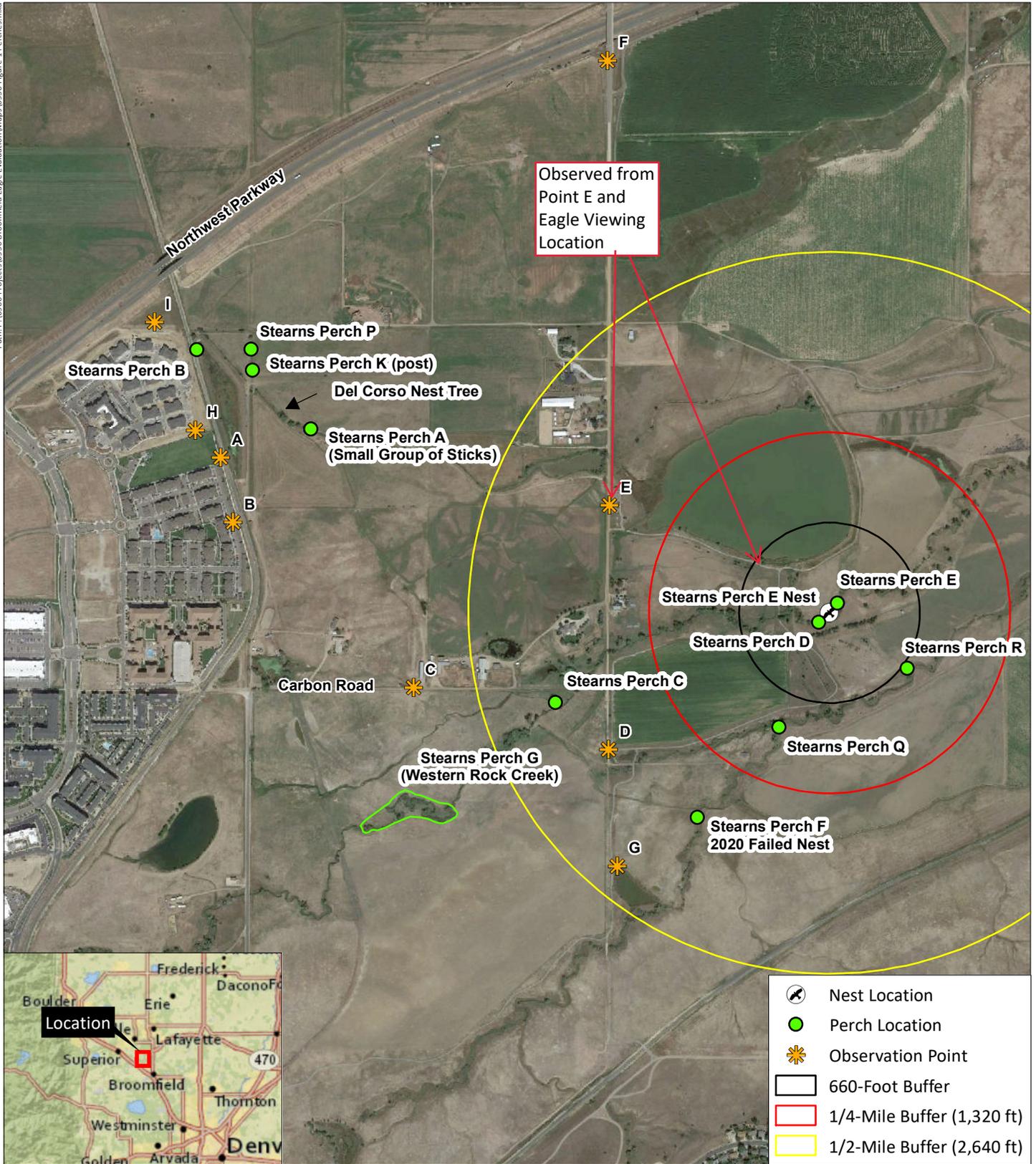
A1 in the nest with Y1, A2 perched in the nest tree.

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	11:30	P1	P2	P1			Recreation	0	Arrive at Observation Location E, A1 seen in the nest, A2 in the nest tree.	6	N
	11:33	P1	P2	P1			Recreation	0	Begin walking down trail towards eagle viewing area.		
	11:36	P1	P2	P1			Recreation	0	Arrive at eagle viewing area.		
	11:39	P1	P2	P1			Recreation	0	No change		
11:40		P2	P2	P1			Recreation	0	A1 moves to perch on the edge of the nest.		
	11:42	P3	P2	P1			Recreation	0	A1 moves to Perch D.		
	11:45	P3	P2	P1			Recreation	0	No change.		
	11:48	P3	P2	P1			Recreation	0	No change.		
	11:51	P3	P2	P1			Recreation	0	No change.		
	11:54	P3	Fly	P1			Recreation	0	A2 up to fly southeast and start circling over fields.		
11:56		P1	Fly	P1			Recreation	0	A1 flies back to the nest.		
	11:57	PR	Fly	P1			Recreation	0	A1 observed preening, A2 flies further south and continues circling.		
	12:00	P1	Fly	P1			Recreation	0	No change.		
12:02		P1	NV	P1			Recreation	0	A2 no longer visible in the sky.	6	N
	12:03	P1	NV	P1			Recreation	0	No change.		
	12:06	P1	NV	P1			Recreation	0	No change.		
	12:09	P1	NV	P1			Recreation	0	No change.		
12:11		P1	Fly	P1			Recreation	0	A2 spotted in the sky far south, still circling.		
	12:12	P1	Fly	P1			Recreation	0	No change.		
	12:15	P1	Fly	P1			Recreation	0	No change.		
	12:18	P1	Fly	P1			Recreation	0	No change.		
	12:21	P1	Fly	P1			Recreation	0	No change.		
12:22		P1	NV	P1			Recreation	0	A2 NV again.		
	12:24	P1	NV	P1			Recreation	0	No change.		
12:25		P1	NV	P1			Recreation	0	Begin walking back to the parking lot (Observation Location E).		
	12:27	P1	NV	P1			Recreation	0	Still walking back to the lot.		
	12:30	P1	NV	P1			Recreation	0	No change, survey end.	5	N

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

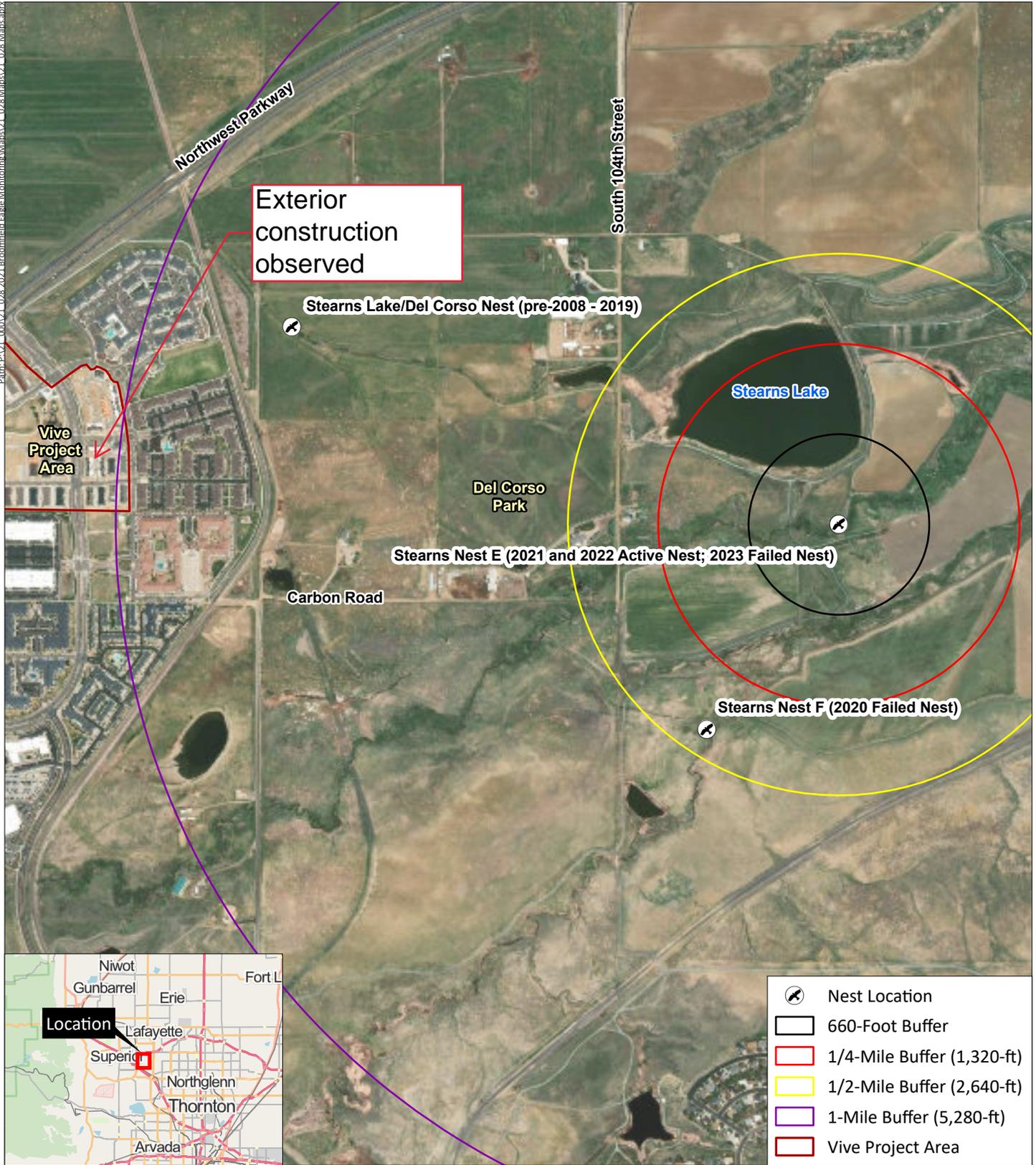
Sections 21,22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 490856mE, 4421186mN
 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





- Nest Location
- 660-Foot Buffer
- 1/4-Mile Buffer (1,320-ft)
- 1/2-Mile Buffer (2,640-ft)
- 1-Mile Buffer (5,280-ft)
- Vive Project Area

Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	5/6/2024	11:05	12:05	JTD, EMO	Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	55 56

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at the Eagle Viewing Site. A1 was just returning to the nest with a food item. A1 then began to feed Y1. A1 would then remain in P1 for the rest of the survey. Shortly after the survey began, A2 was spotted south of the nest on Perch E. Light recreation as there were a couple people walking on the path during the survey. No disturbance indicators were observed throughout the survey. Exterior construction ongoing at the Vive site.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mnh)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)

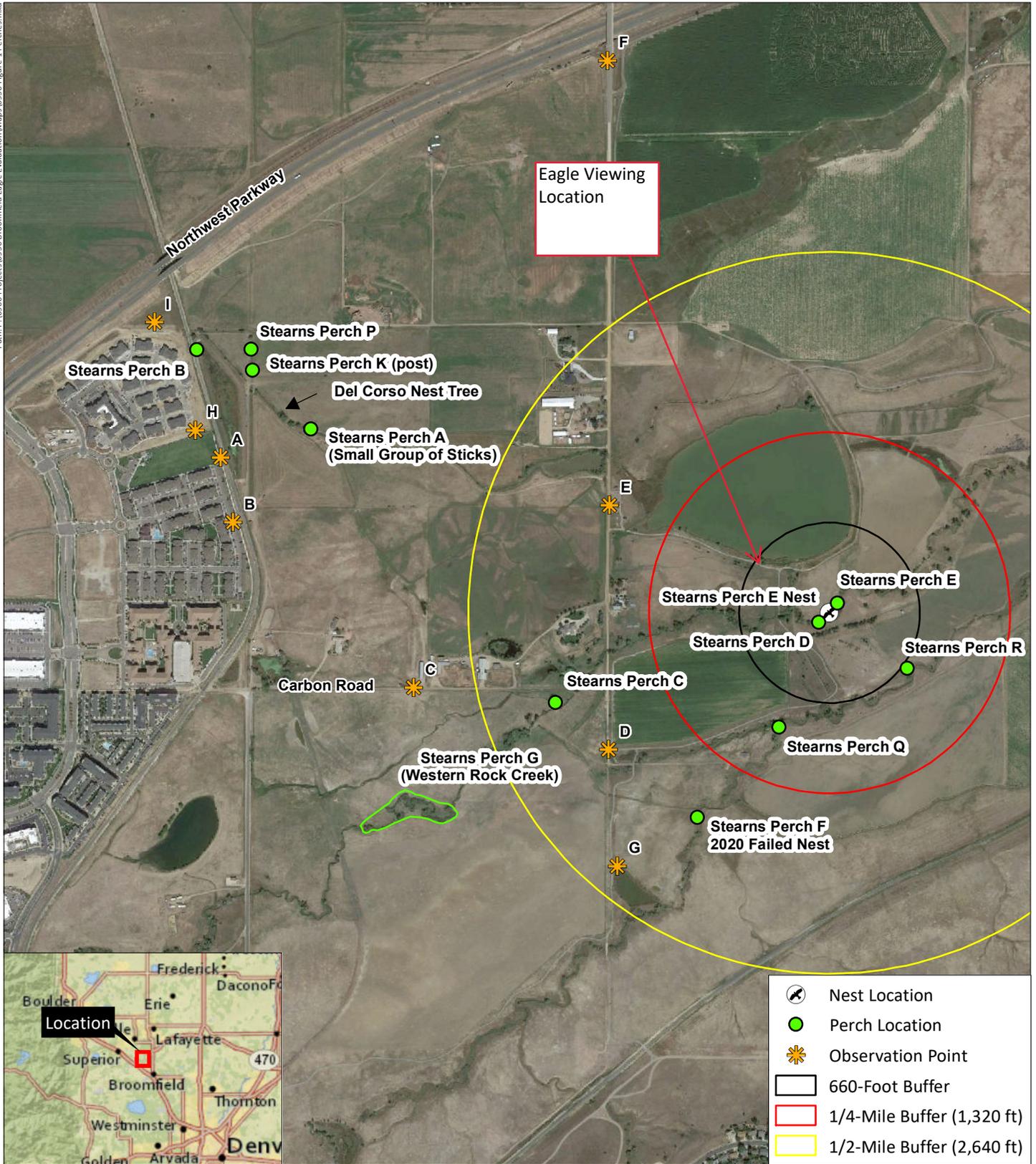
	<p>A1 in the nest with Y1.</p>		<p>A2 on Perch E.</p>
------------------------------------------------------------------------------------	--------------------------------	--------------------------------------------------------------------------------------	-----------------------

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	11:05	Fly	NV	P1			None	0	Survey start. A1 is observed returning to the nest with a prey item.	28	W
11:06		FY	NV	FS			None	0	A1 is observed feeding Y1.		
	11:08	FY	P3	FS			None	0	A2 is spotted low at Perch E.		
	11:11	NB	P3	FS			None	0	A1 is no longer observed feeding Y1.		
	11:14	NB	P3	P1			None	0	No new observations.		
	11:17	NB	P3	P1			None	0	No new observations.		
	11:20	NB	P3	P1			None	0	No new observations.		
	11:23	NB	P3	P1			None	0	No new observations.		
	11:26	NB	P3	P1			Recreation	0	One person is walking on the path. No new observations.		
	11:29	NB	P3	P1			None	0	No new observations.		
	11:32	NB	P3	P1			None	0	No new observations.		
	11:35	NB	P3	P1			None	0	No new observations.	28	W
	11:38	NB	P3	P1			None	0	No new observations.		
	11:41	NB	P3	P1			None	0	No new observations.		
	11:44	NB	P3	P1			Recreation	0	Person is walking on path. No new observations.		
	11:47	NB	P3	P1			None	0	No new observations.		
	11:50	NB	P3	P1			None	0	No new observations.		
	11:53	NB	P3	P1			None	0	No new observations.		
	11:56	NB	P3	P1			None	0	No new observations.		
	11:59	NB	P3	P1			None	0	No new observations.		
	12:02	NB	P3	P1			None	0	No new observations.		
	12:05	NB	P3	P1			None	0	Survey End.	28	W

¹ Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³ Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

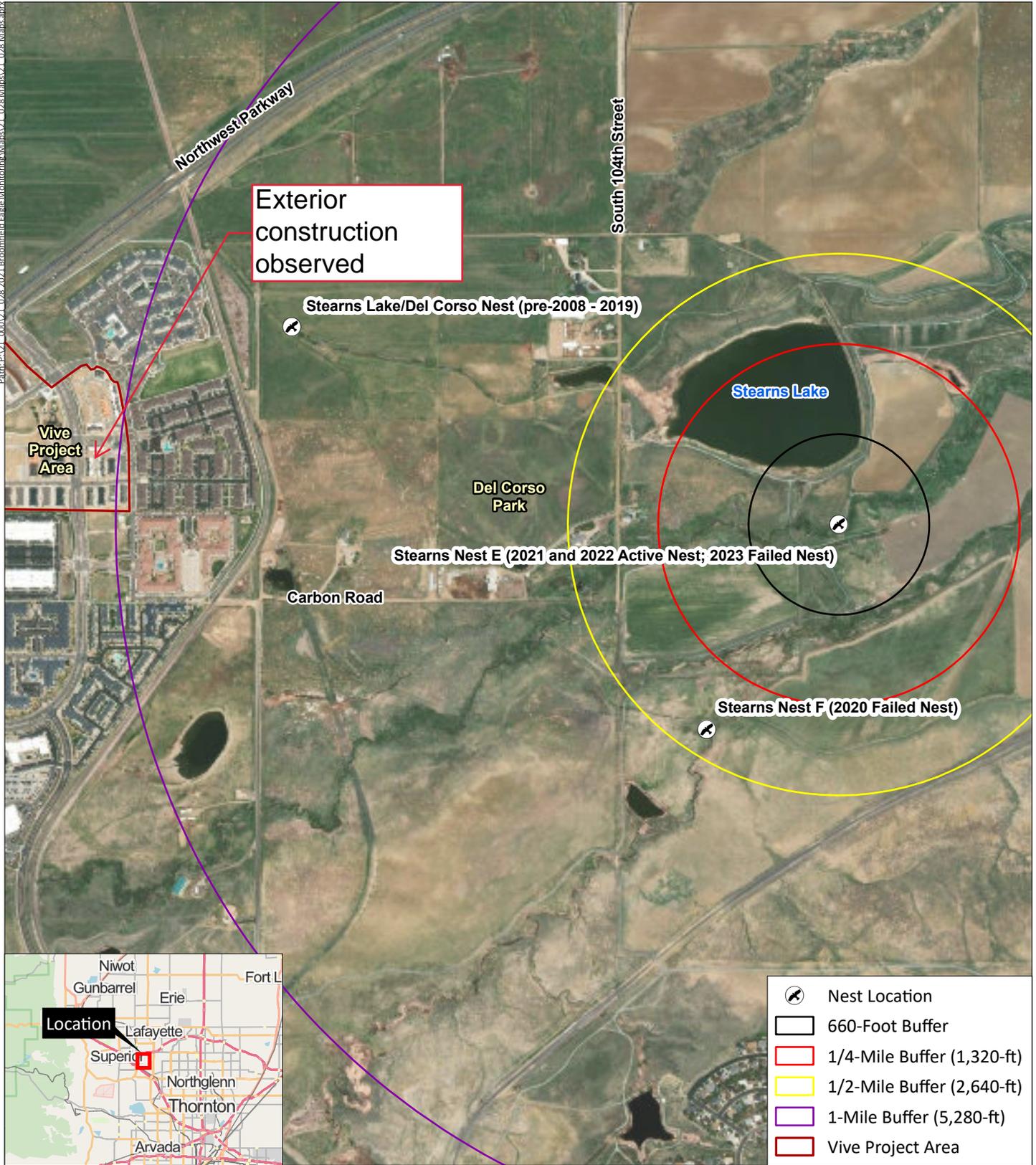
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 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
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 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	5/21/2024	9:15	10:15	JJD	E and Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	57

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point E and then walked along trail to eagle viewing site. A1, A2, and Y1 all observed in nest or in nest tree. A1 flew northwest over lake and was not seen for remainder of survey. Light recreation from humans included walking, biking, and running throughout survey. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



A2 and Y1 observed in nest. 9:26 AM 5/21/24



Construction ongoing at Vive Site. 10:28 AM 5/21/24

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	9:15	P2	P1	P1			None	0	Arrive at Observation Point E. Begin walking to viewing area.	10	NE
	9:18	P2	P1	P1			None	0	No change.		
9:19		P2	P1	P1			None	0	A1 observed in nest tree, A2 and Y1 observed in nest.		
	9:21	FLY	P1	P1			None	0	A1 begins territory flight.		
9:22		FLY	P1	P1			None	0	A1 flies northwest over lake, no longer visible.		
	9:24	NV	P1	P1			None	0	No change.		
	9:27	NV	P1	P1			None	0	No change.		
9:28		NV	P1	P1			Recreation	0	Hikers walk by along trail.		
	9:30	NV	P1	P1			Recreation	0	Hikers walk by along trail.		
9:31		NV	P1	P1			Recreation	0	Biker rides by along trail.		
	9:33	NV	P1	P1			None	0	No change.		
9:34		NV	P2	P1			Recreation	0	A2 flies to perch in nest tree. Hikers walk by.		
9:35		NV	P2	P1			Recreation	0	Hikers walk by. Y1 sits down in nest.	10	NE
	9:36	NV	P2	P1			None	0	No change.		
	9:39	NV	P2	P1			None	0	No change.		
9:41		NV	P2	P1			Recreation	0	Hiker walks by along trail.		
	9:42	NV	P2	P1			None	0	No change.		
	9:45	NV	P2	P1			None	0	Y1 walks across nest, sits down.		
	9:48	NV	P2	P1			Recreation	0	Hikers walk by along trail.		
9:50		NV	P2	P1			Recreation	0	Great Blue Heron observed perched in tree to the southwest.		
	9:51	NV	P2	P1			Recreation	0	No change.		
	9:54	NV	P2	P1			Recreation	0	No change.		
9:56		NV	P2	P1			Recreation	0	Biker rides by along trail.		
	9:57	NV	P2	P1			Recreation	0	Hiker walks by along trail.		
	10:00	NV	P2	P1			Recreation	0	No change.		
10:01		NV	P2	P1			Recreation	0	Biker rides by along trail.		
10:02		NV	P2	P1			Recreation	0	Hiker walks by along trail.		
	10:03	NV	P2	P1			Recreation	0	No change.	10	NE

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

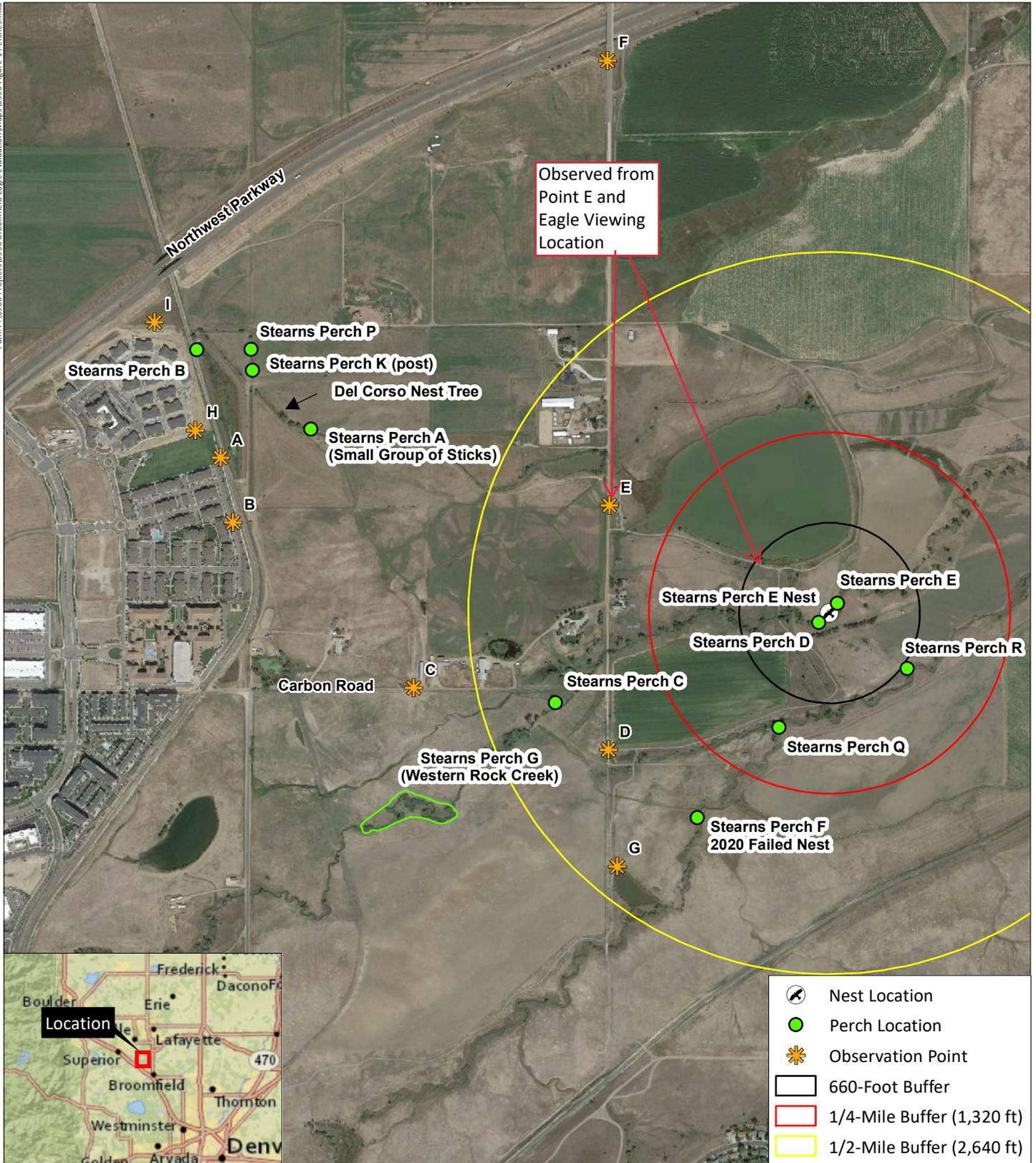
Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other

10:04		NV	P2	P1		Recreation	0	Bikers ride by along trail.	10	NE
	10:06	NV	P2	P1		Recreation	0	No change.		
	10:09	NV	P2	P1		Recreation	0	No change.		
10:11		NV	P2	P1		Recreation	0	Biker rides by along trail.		
	10:12	NV	P2	P1		Recreation	0	No change.		
	10:15	NV	P2	P1		Recreation	0	No change. End monitoring.	10	NE

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

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Broomfield Eagle Evaluation

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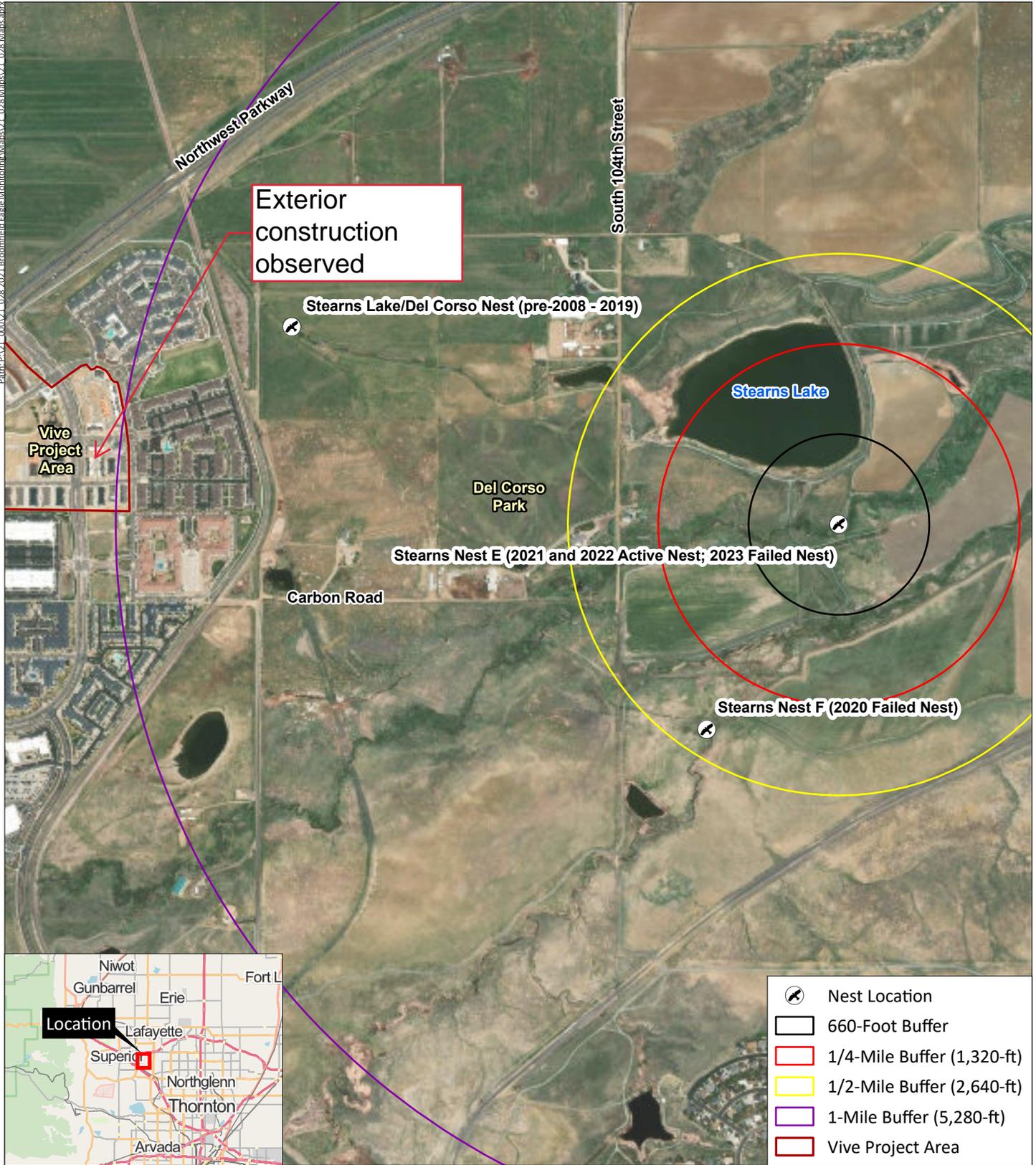
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Figure 2
Nest Locations and Buffers
2018 - 2023

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 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	6/12/2024	11:30	1:06	IMM/AM C	Viewing area & Obs Pt D	PC
Noise	Start	NA	End	NA	Temp (F)	89 91

Number of adult Bald Eagles detected	1
Number of nestlings detected	0
Number of fledglings detected	1

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
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NV - Not Visible (9)
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Disturbance Indicators (DI)	
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5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
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^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point (Obs Pt) E and then walked over to eagle viewing area. No eagles were observed. Throughout survey light recreation of walking, running, and biking were observed. After moving to Observation Point D, A1 was observed in nest tree and Y1 was observed in tree south of nest tree. No disturbances were observed throughout survey. At Vive construction site there was exterior construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
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6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



A1 perches in nest tree. 12:41 PM 6/12/24



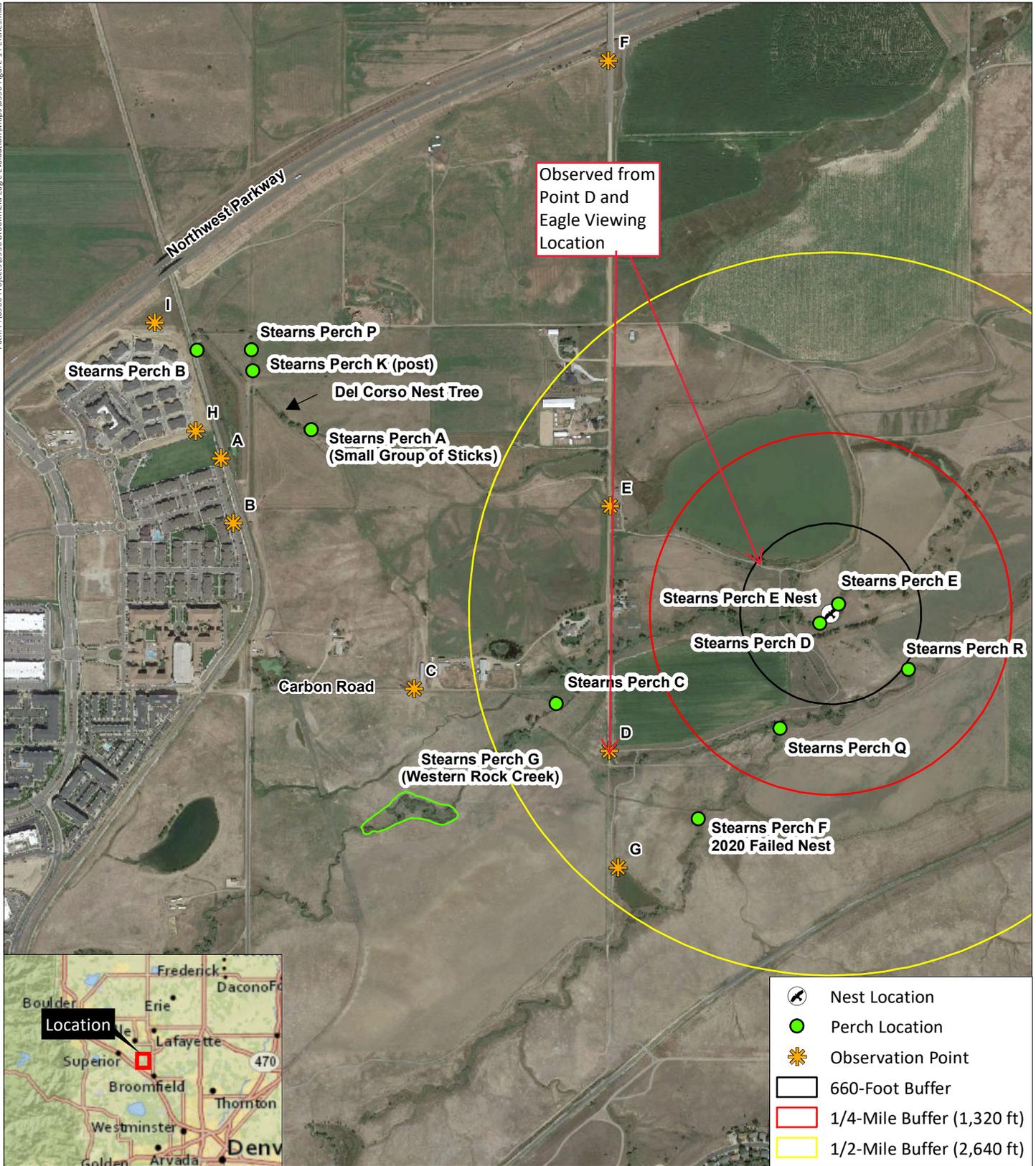
Construction ongoing at Vive Site. 1:06 PM 6/12/24

Time (Continuous)	3 min. obs.	Behavior		Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	Y1	Type	DI		Spd.	Dir.
11:30		NV	NV	Recreation	0	Arrive at Observation Point (Obs Pt) E. Begin walking to viewing area.	6	WNW
	11:33	NV	NV	Recreation	0	No eagles observed.		
	11:36	NV	NV	Recreation	0	No change.		
	11:39	NV	NV	Recreation	0	No change.		
	11:42	NV	NV	Recreation	0	No change.		
	11:45	NV	NV	Recreation	0	No change.		
	11:48	NV	NV	Recreation	0	No change.		
	11:51	NV	NV	Recreation	0	No change.		
	11:54	NV	NV	Recreation	0	No change.		
	11:57	NV	NV	Recreation	0	No change.		
	12:00	NV	NV	Recreation	0	No change.	6	WNW
	12:03	NV	NV	Recreation	0	No change.		
	12:06	NV	NV	Recreation	0	No change.		
	12:09	NV	NV	Recreation	0	Red-tailed hawk soaring NE of eagle nest.		
	12:12	NV	NV	Recreation	0	Red-tailed hawk soaring NE of eagle nest.		
	12:15	NV	NV	Recreation	0	Red-tailed hawk soaring NE of eagle nest.		
	12:18	NV	NV	Recreation	0	Red-tailed hawk soaring NE of eagle nest.		
	12:21	NV	NV	Recreation	0	Red-tailed hawk soaring NE of eagle nest.		
	12:24	NV	NV	Recreation	0	Red-tailed hawk soaring NE of eagle nest.		
	12:27	NV	NV	Recreation	0	Walk back towards Obs Pt E.		
	12:30	NV	NV	Recreation	0	No eagles observed from Obs Pt E.	6	WNW
	12:33	NV	NV	Recreation	0	Move to Obs Pt D.		
	12:36	NV	NV	Recreation	0	No eagles observed.		
12:37		P2	NV	Recreation	0	A1 flies from ground and preches in nest tree.		
	12:39	P2	NV	Recreation	0	A1 preening.		
	12:42	P2	P3	Recreation	0	A1 in nest tree, Y1 perched in tree south of nest tree.		
	12:45	P2	P3	Recreation	0	No change.	9	NW
	12:48	P2	P3	Recreation	0	Drive to Vive Construction Site; Survey end.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest.

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

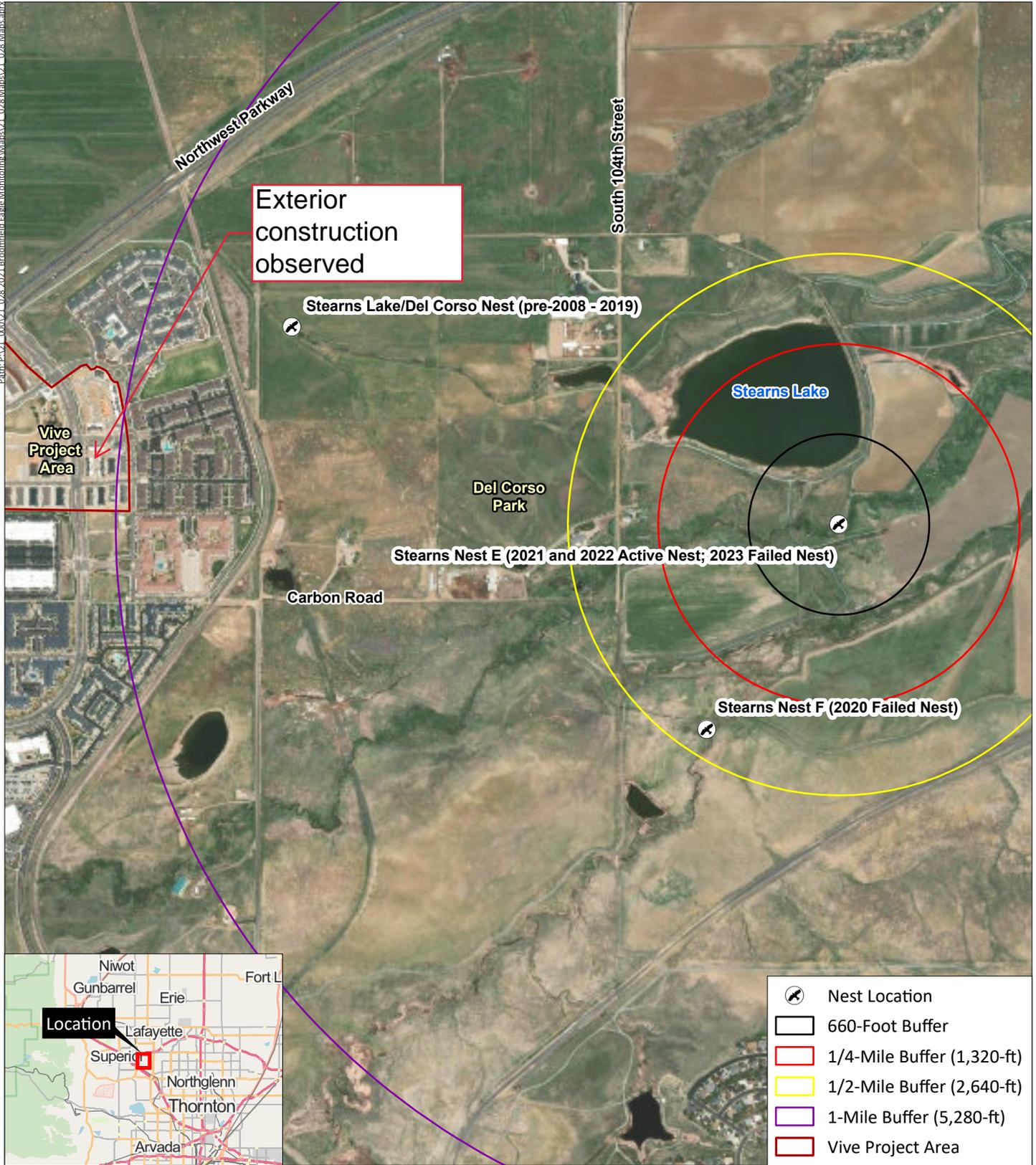
Sections 21,22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 490856mE, 4421186mN
 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	6/21/2024	9:55	10:55	JTD/EMO	Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	73 75

Number of adult Bald Eagles detected	1
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began upon arrival to the eagle viewing area. No eagles were observed for the first portion of the survey. About 20 minutes into the survey, we saw one adult eagle flying past the nest from the south. The eagle caught a thermal updraft and circled east of the nest. A red-tailed hawk was also observed close to the adult eagle but there was no indication of an interaction or disturbance. Visibility of the eagle was lost after about 8 minutes and were no other eagles observed for the remainder of the survey. There was a fair amount of recreational activity, such as bikers and pedestrians on the trail to the north of the nest, but no disturbances were noted. At the Vive project area, exterior construction was observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)

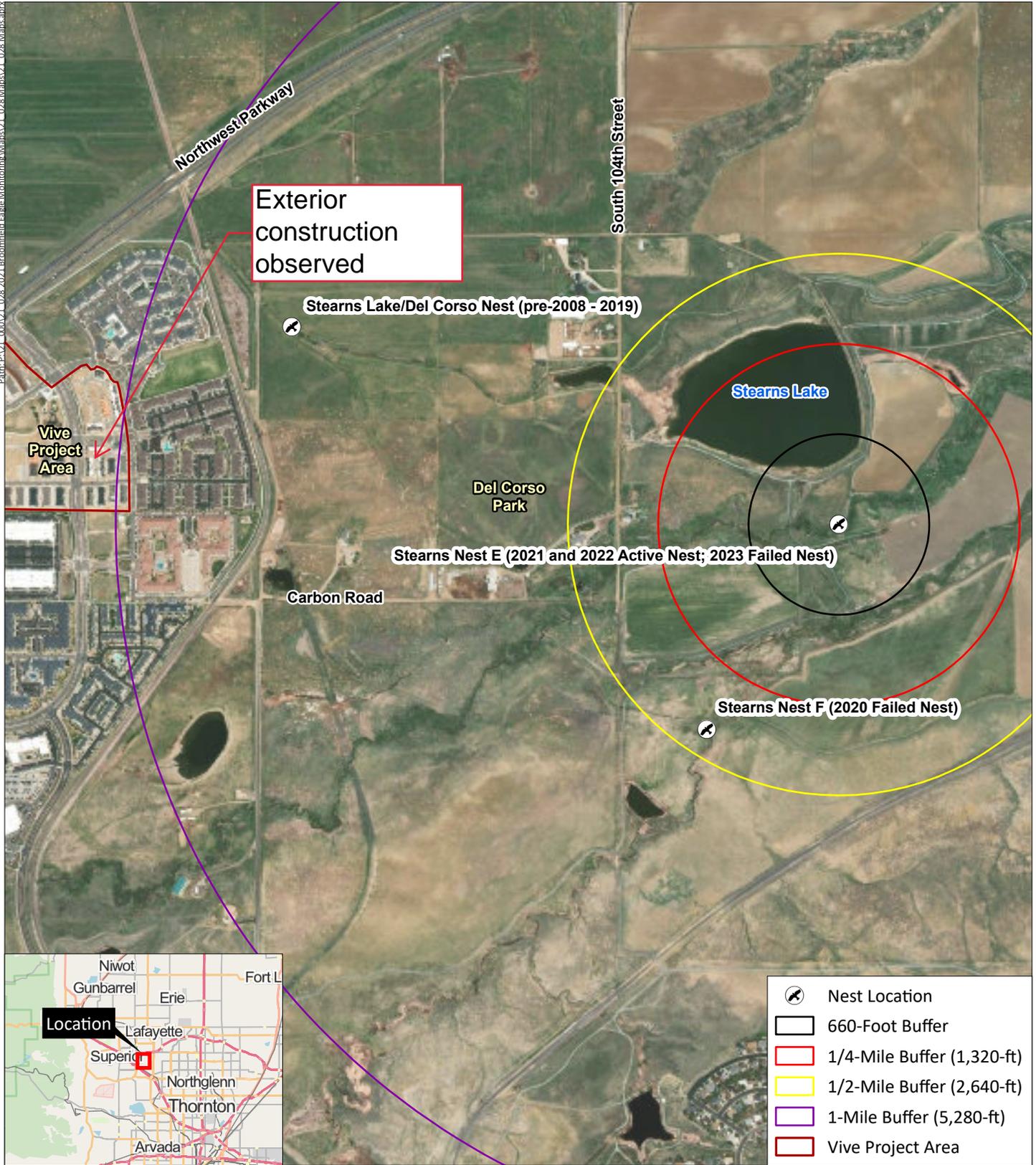


Time (Continuous)	3 min. obs.	Behavior			Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Type	DI		Spd.	Dir.
	9:55	NV	NV	NV	Recreation	0	Survey start at observation area. No eagles observed.	0	N/A
	9:58	NV	NV	NV	Recreation	0	No new observations.		
	10:01	NV	NV	NV	Recreation	0	No new observations.	15	NW
	10:04	NV	NV	NV	Recreation	0	No new observations.		
10:05		NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.		
	10:07	NV	NV	NV	Recreation	0	No new observations.		
10:07		NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.		
10:08		NV	NV	NV	Recreation	0	Two bikers go by on path to the north of nest.		
	10:10	NV	NV	NV	Recreation	0	No new observations.		
	10:13	NV	NV	NV	Recreation	0	No new observations.		
10:13		NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.		
10:14		Fly	NV	NV	Recreation	0	A1 spotted catching a thermal updraft, then circling to the east		
	10:16	Fly	NV	NV	Hawk	0	Red tail hawk spotted flying near A1		
	10:19	Fly	NV	NV	Recreation	0	No new observations.		
	10:22	NV	NV	NV	Recreation	0	No new observations.		
	10:25	NV	NV	NV	Recreation	0	No new observations.		
	10:28	NV	NV	NV	Recreation	0	No new observations.		
10:29		NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.		
	10:31	NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.	12	NW
10:33		NV	NV	NV	Recreation	0	Biker and 2 people walking go by on trail to north of nest.		
	10:34	NV	NV	NV	Recreation	0	No new observations.		
	10:37	NV	NV	NV	Recreation	0	Runner on the trail to the north of nest.		
	10:40	NV	NV	NV	Recreation	0	No new observations.		
10:42		NV	NV	NV	Recreation	0	Runner on the trail to the north of nest.		
	10:43	NV	NV	NV	Recreation	0	No new observations.		
	10:46	NV	NV	NV	Recreation	0	No new observations.		
10:47		NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.		
	10:49	NV	NV	NV	Recreation	0	No new observations.		
10:50		NV	NV	NV	Recreation	0	Runner on the trail to the north of nest.		
10:51		NV	NV	NV	Recreation	0	Biker goes by on path to the north of nest.		
	10:52	NV	NV	NV	Recreation	0	No change.		
	10:55	NV	NV	NV	Recreation	0	Survey end. Drive to Vive Construction Area.	10	NW

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023

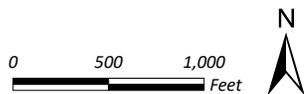


Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	7/1/2024	9:56	10:56	JJD	E and Obs. Area	OC
Noise	Start	NA	End	NA	Temp (F)	73 79

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point E and then walked along trail to eagle viewing site. A1, A2, observed perched on nest or in nest tree. Y1 observed flying outside nest tree, appears to have fledged. Wind speed picked up significantly during survey, causing both adults to fly from their perch. Light recreation from humans included walking, biking, and running throughout survey. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior and above ground construction observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mnh)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



A2 observed in nest. 10:05 AM 7/1/24



Construction ongoing at Vive Site. 11:23 AM 7/1/24

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	9:56	NV	NV	NV			Recreation	0	Begin survey at Obs Pt E, walking towards Observation Area. No eagles observed.	3	NW
	9:59	NV	NV	NV			Recreation	0	No change.		
	10:02	P2	P1	NV			Recreation	0	A1 and A2 observed in nest and in nest tree. Y1 not observed in nest.		
	10:05	P2	P1	NV			Recreation	0	No change.		
10:07		P2	P1	NV			Recreation	0	Biker rides by on trail.		
	10:08	P2	P1	NV			Recreation	0	no change.		
10:09		P2	P1	NV			Recreation	0	Biker rides by on trail.		
10:10		P2	P1	NV			Aircraft	0	Low flying plane flies by.		
	10:11	P2	P1	NV			Recreation	0	No change.		
	10:14	P2	P1	NV			Recreation	0	No change.		
10:15		P2	P1	NV			Aircraft	0	Low flying helicopter flies by.		
	10:17	P2	P1	NV			Recreation	0	No change.		
10:19		P2	P1	NV			Recreation	0	Biker rides by on trail.		
	10:20	P2	P1	NV			Recreation	0	No change.		
10:21		P2	P1	NV			Recreation	0	Biker rides by on trail.		
	10:23	P2	P1	NV			Recreation	0	No change.		
10:24		FLY	FLY	NV			Recreation	0	Biker rides by on trail. Wind picks up, A1 flies to nest and A2 flies to nearby tree.	23	W
	10:26	P1	P3	NV			Recreation	0	No change.		
	10:29	P1	P3	NV			Recreation	0	No change.		
10:30		P1	P3	P3			Recreation	0	Y1 observed flying to the southwest, lands in Stearns Perch R.		
	10:32	P1	P3	P3			Recreation	0	No change.		
	10:35	P1	P3	P3			Recreation	0	Biker rides by on trail.		
10:36		P1	P3	P3			Recreation	0	Biker rides by on trail.		
10:38		P1	P3	P3			Recreation	0	Biker rides by on trail.		
	10:41	P1	P3	P3			Recreation	0	No change.		
	10:44	P1	P3	P3			Recreation	0	No change.		
	10:47	P1	P3	P3			Recreation	0	No change.		
	10:50	P1	P3	P3			Recreation	0	No change.	23	W

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

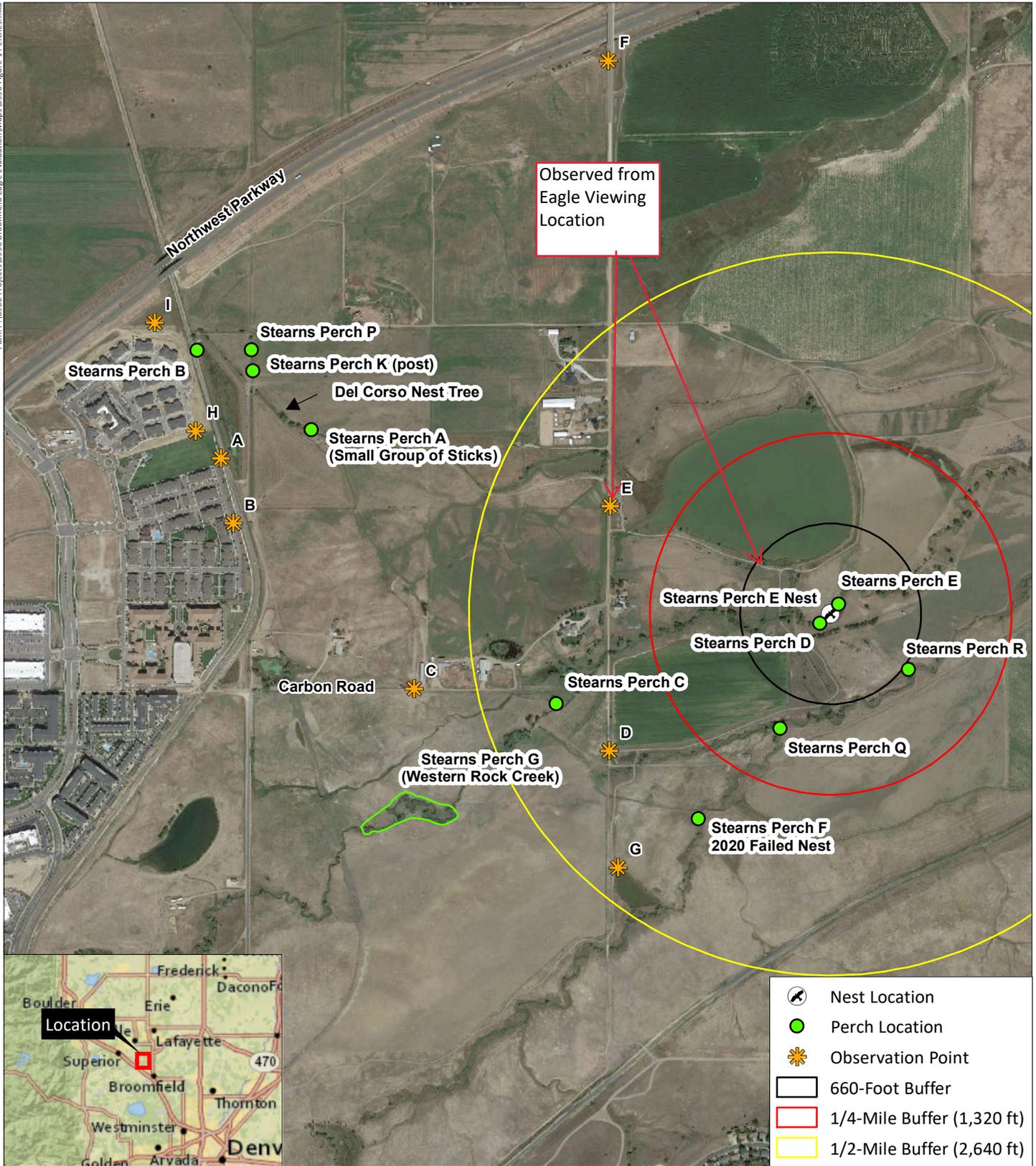
Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other

	10:53	P1	P3	P3		Recreation	0	Biker rides by on trail.	20	W
	10:56	P1	P3	P3		Recreation	0	No change. End survey.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest: 6. >1k from nest. mark locations on attached map

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Broomfield Eagle Evaluation

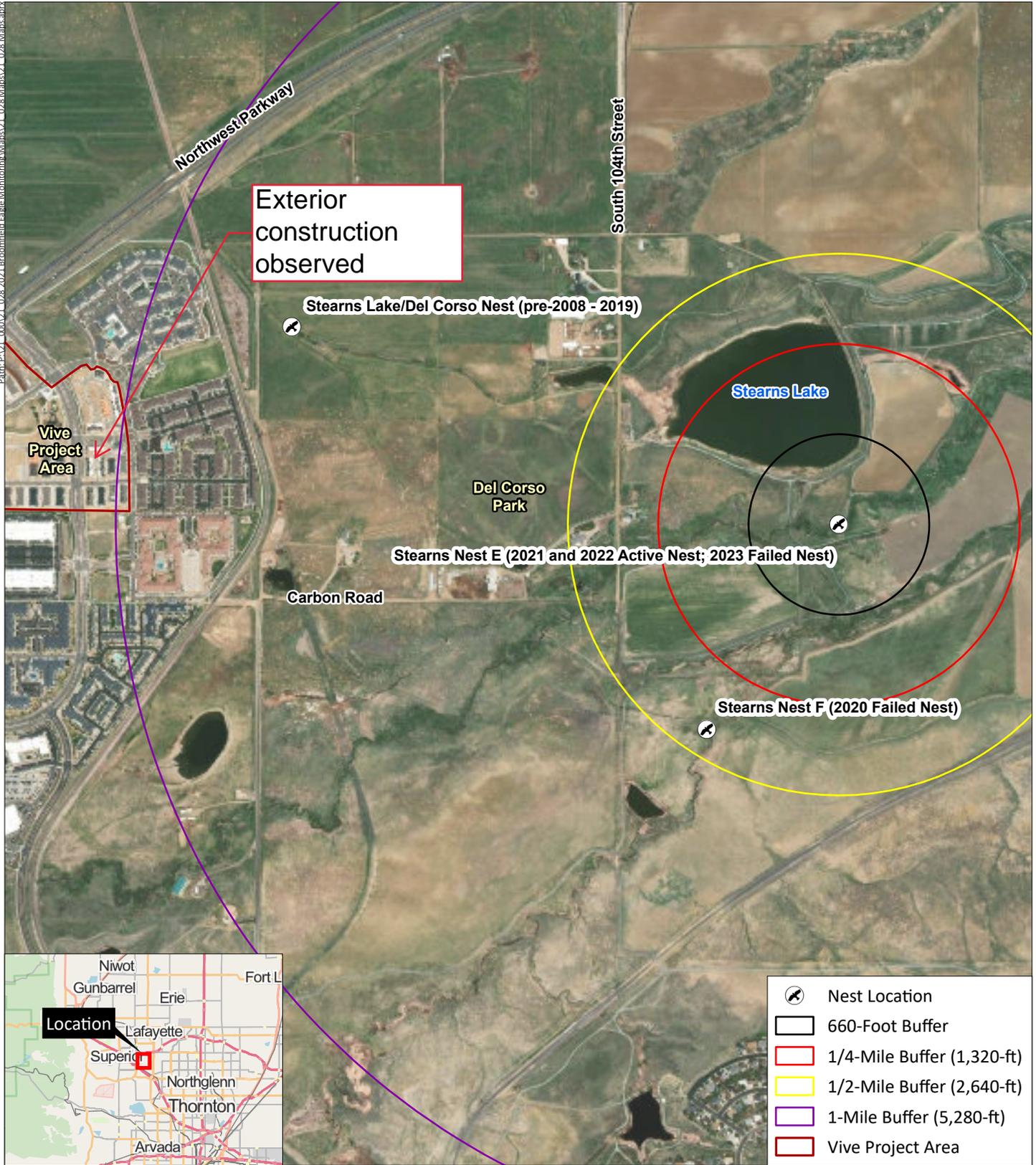
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Figure 1
Observation Points and
Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

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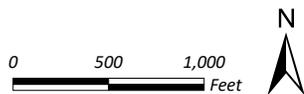


Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	7/17/2024	1:10	2:10	JTD	E and Viewing Area	OC
Noise	Start	NA	End	NA	Temp (F)	87 85

Number of adult Bald Eagles detected	1
Number of nestlings detected	0
Number of fledglings detected	1

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
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Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
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C - Courtship (G)
Cop - Copulate (H)

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5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at observation point E (Obs Pt E), one adult eagle was observed perched in the nesting tree upon arrival. Landscaping was occurring at Stearns Lake but no disturbance indicators were observed. Y1 was not visible from Obs Pt E, but was later observed from the viewing area. Y1 was observed Perch D when spotted. Y1 was observing vocalizing, potentially "begging" to the adult eagle that was perched in the nest tree. The adult eagle flew away and Y1 then perched in the nest. There were no disturbance indicators observed throughout the survey.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
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Sky Codes	
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4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



Adult eagle in nest tree.



Fledgling perched in nest.



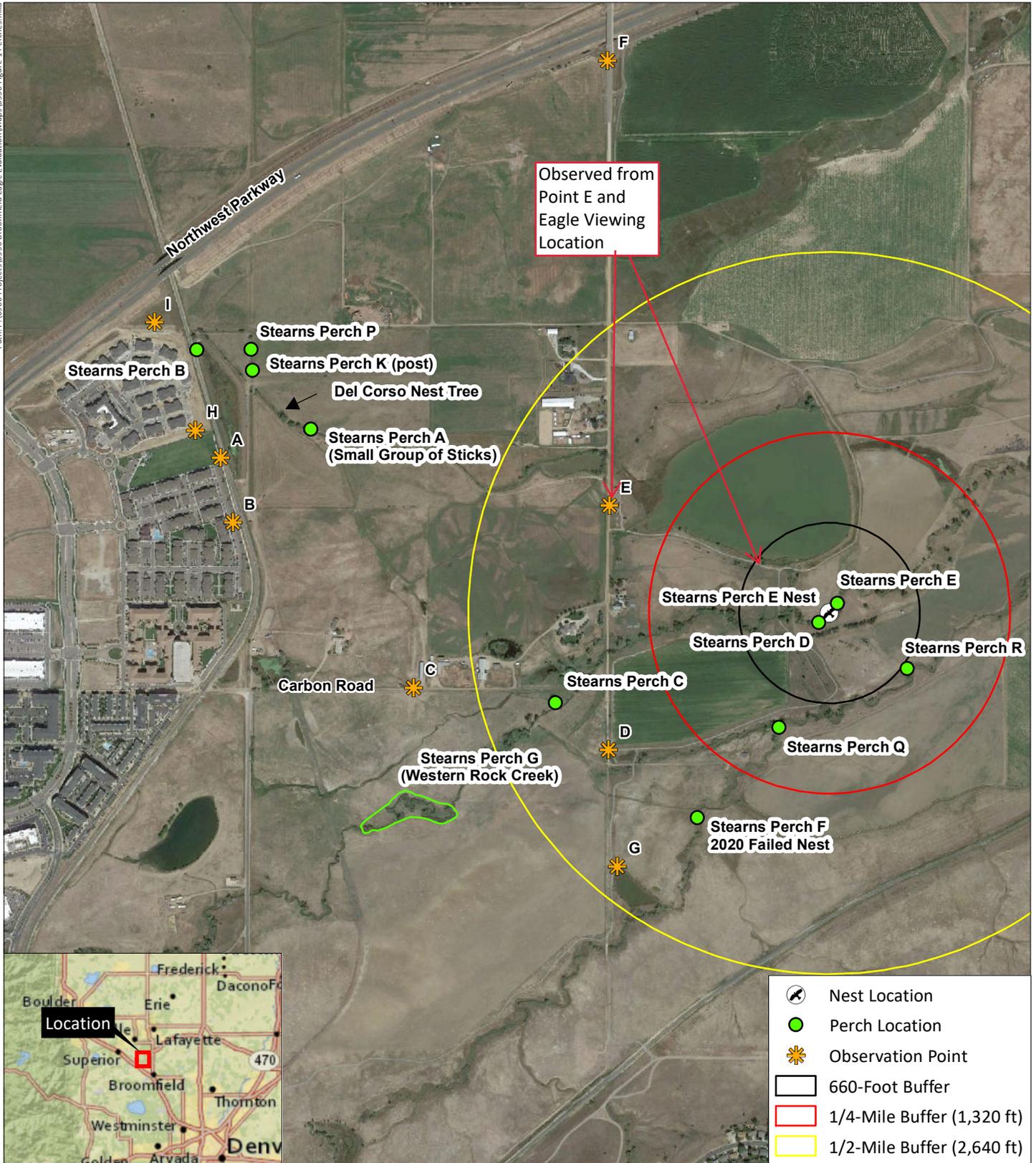
Exterior construction (Vive project area).

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	1:10	P2	NV	NV			Recreation	0	Survey start, A1 observed perched in a branch in the nest tree.	9	NW
	1:13	P2	NV	NV			Recreation	0	No new observation.		
	1:16	P2	NV	NV			Recreation	0	No new observation.		
	1:19	P2	NV	NV			Recreation	0	No new observation.		
1:21		P2	NV	NV			Recreation	0	Eagle vocalizations heard.		
	1:22	P2	NV	NV			Recreation	0	No new observation.		
	1:25	P2	NV	NV			Recreation	0	No new observation.		
	1:28	P2	NV	NV			Recreation	0	No new observation.		
	1:31	P2	NV	NV			Recreation	0	No new observation.		
	1:34	P2	NV	NV			Recreation	0	No new observation.		
1:36		P2	NV	NV			Recreation	0	Eagle vocalizations heard.		
	1:37	P2	NV	NV			Recreation	0	No new observation.		
	1:40	P2	NV	NV			Recreation	0	No new observation.	13	N
1:41		P2	NV	NV			Recreation	0	One person walking on the path and observes the nest using a spotting scope.		
	1:43	P2	NV	NV			Recreation	0	No new observation.		
1:44		P2	NV	P3			Recreation	0	Juvenile observed, appears to be perched in the Perch D tree.		
	1:46	P2	NV	P3			Recreation	0	No new observation.		
1:47		P2	NV	P3			Recreation	0	Y1 observed vocalizing.		
	1:49	P2	NV	P3			Recreation	0	No new observation.		
1:50		FLY	NV	FLY			Recreation	0	A1 flies east away from nest.		
1:50		FLY	NV	P3			Recreation	0	Y1 flies from Perch D to nest.		
1:50		NV	NV	P1			Recreation	0	Y1 perched in nest.		
	1:52	NV	NV	P1			Recreation	0	No new observation.		
	1:55	NV	NV	P1			Recreation	0	No new observation.		
1:56		NV	NV	P1			Recreation	0	Pedestrian using spotting scope leaves the nest area.		
	1:58	NV	NV	P1			Recreation	0	No new observation.		
	2:01	NV	NV	P1			Recreation	0	No new observation.		
	2:04	NV	NV	P1			Recreation	0	No new observation.		
	2:07	NV	NV	P1			Recreation	0	No new observation.		
	2:10	NV	NV	P1			Recreation	0	Survey end.	5	N

¹ Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³ Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

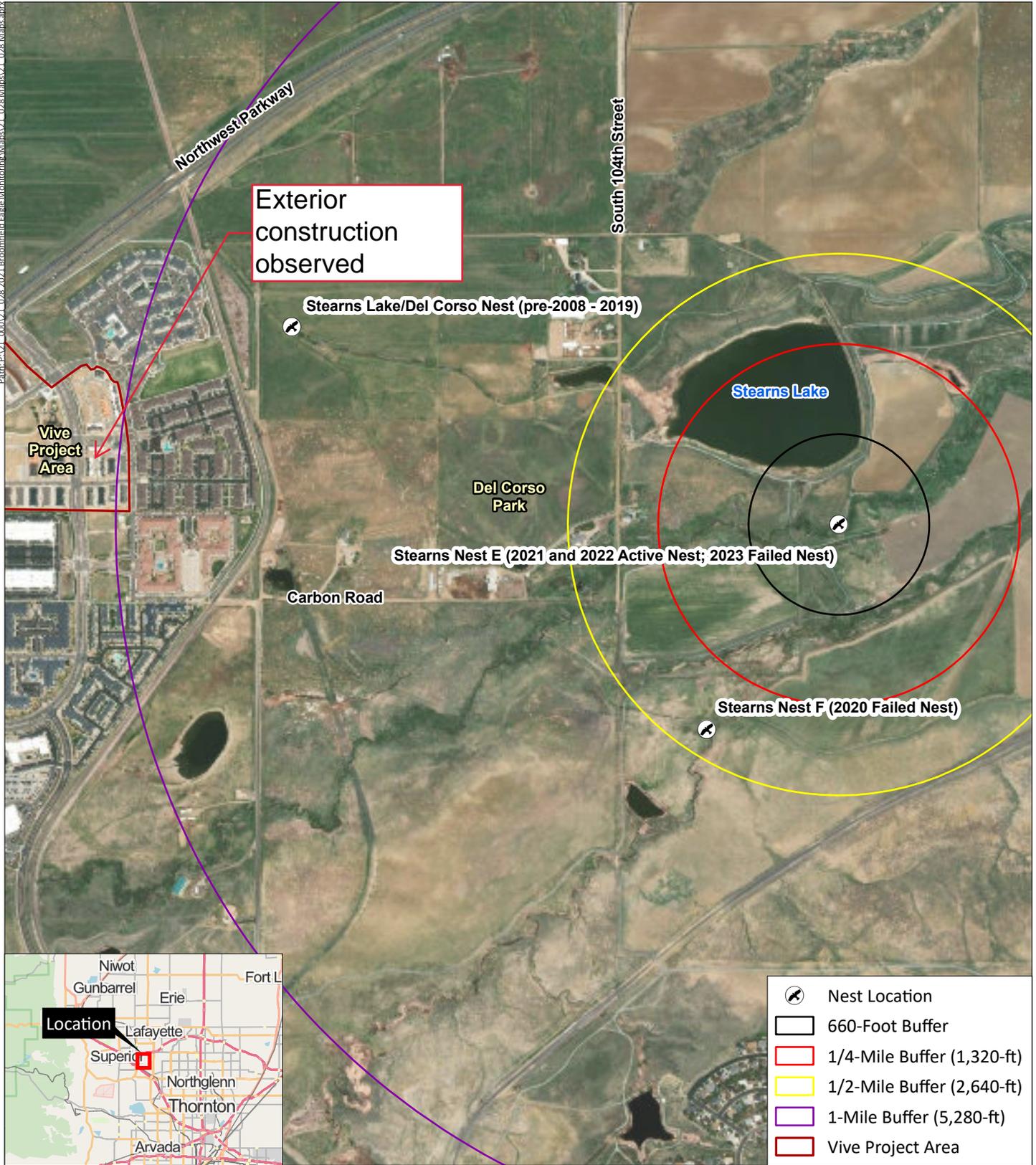
Sections 21,22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 490856mE, 4421186mN
 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023

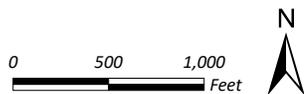


Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	8/8/2024	3:50	4:50	JTD	Viewing Area	CL
Noise	Start	NA	End	NA	Temp (F)	73 71

Number of adult Bald Eagles detected	0
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at the observation area, no eagles were observed in proximity of the nest tree. The nest appears to be in a delapidated state and does not appear to be as stable. No eagles were observed for the entirety of the survey. Light recreation from humans included walking and bikers. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior construction observed. Construction activities appear to have occurred at the stearns lake trail head, parking area appears to be graded and construction vehicles were at the site.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



Unoccupied nest.



Exterior construction at Vive site



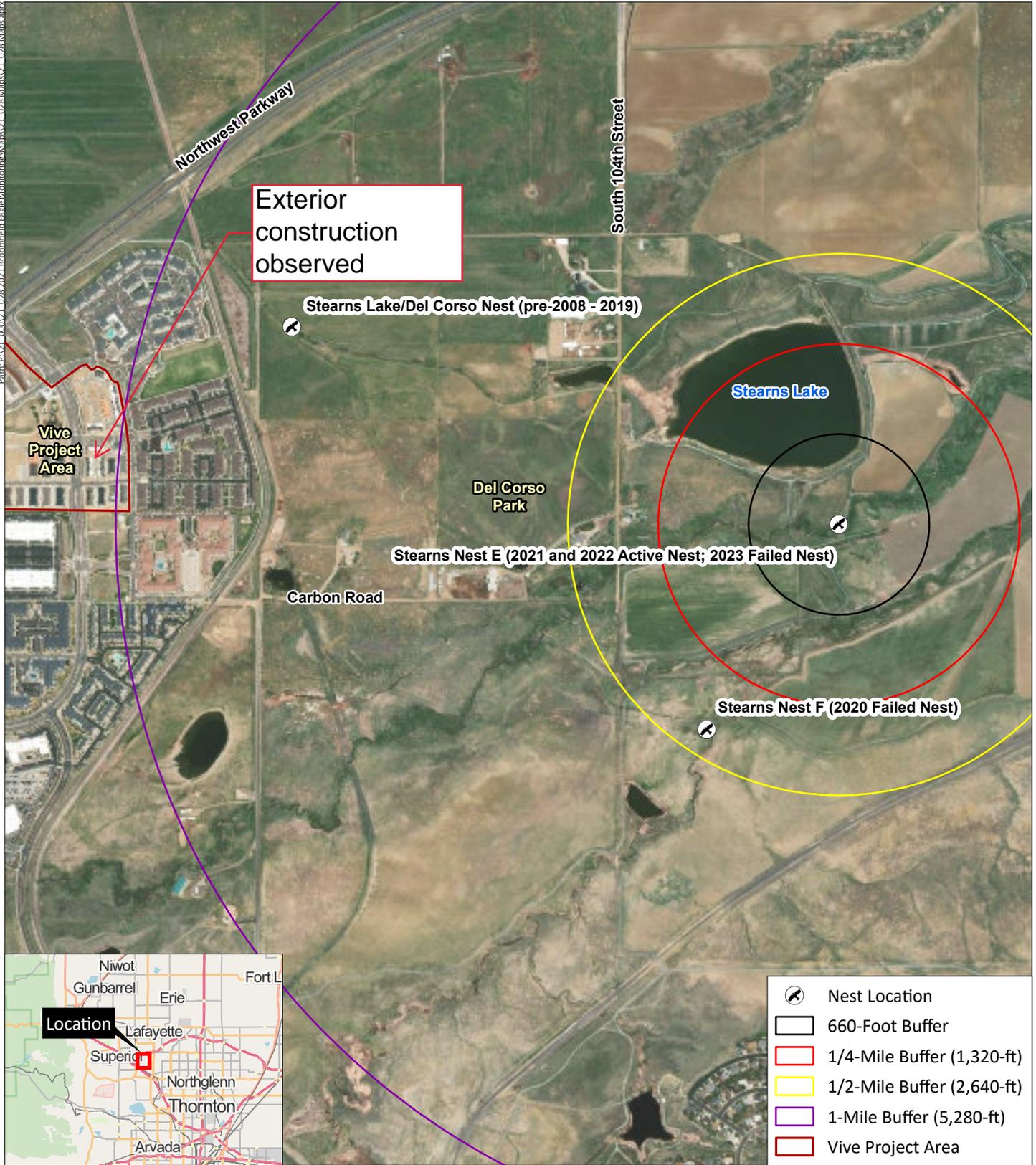
Grading activities at Stearns Lake Trailhead

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	3:50	NV	NV	NV			Recreation	0	Begin survey at observation point E. No eagles visible. Move to eagle viewing area.	10	NE
	3:53	NV	NV	NV			Recreation	0	Walking to eagle viewing area.		
	3:56	NV	NV	NV			Recreation	0	Arrive at eagle viewing area.		
	3:59	NV	NV	NV			Recreation	0	No eagles visible.		
	4:02	NV	NV	NV			Recreation	0	No new observations.		
	4:05	NV	NV	NV			Recreation	0	No new observations.		
4:07		NV	NV	NV			Recreation	0	Pedestrian runs past nest on the trail.		
	4:08	NV	NV	NV			Recreation	0	No new observations.		
	4:11	NV	NV	NV			Recreation	0	No new observations.		
	4:14	NV	NV	NV			Recreation	0	No new observations.		
	4:17	NV	NV	NV			Recreation	0	No new observations.		
4:18		NV	NV	NV			Recreation	0	Pedestrian bikes past nest on the trail.		
	4:20	NV	NV	NV			Recreation	0	No new observations.	3	NE
	4:23	NV	NV	NV			Recreation	0	No new observations.		
	4:26	NV	NV	NV			Recreation	0	No new observations.		
	4:29	NV	NV	NV			Recreation	0	No new observations.		
	4:32	NV	NV	NV			Recreation	0	No new observations.		
	4:35	NV	NV	NV			Recreation	0	No new observations.		
	4:38	NV	NV	NV			Recreation	0	No new observations.		
	4:41	NV	NV	NV			Recreation	0	No new observations.		
	4:44	NV	NV	NV			Recreation	0	No new observations.		
	4:47	NV	NV	NV			Recreation	0	No new observations.		
	4:50	NV	NV	NV			Recreation	0	End survey. No eagles visible.	4	NE

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023



Figure 2
 Nest Locations and Buffers
 2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	8/23/2024	9:10	10:05	AMC	Viewing Area	PC
Noise	Start	NA	End	NA	Temp (F)	73 74

Number of adult Bald Eagles detected	0
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at the observation area, no eagles were observed in proximity of the nest tree. The nest tree appears to have collapsed. No eagles were observed for the entirety of the survey. Light recreation from humans mostly included bikers and some walkers. No disturbance indicators observed throughout the survey. At Vive construction site there was minimal exterior construction observed. There was also construction at the stearns lake trail head, not active at the time of the visit.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



Collapsed nest tree. 9:53 AM 8/23/24



Exterior construction at Vive site. 10:14 AM 8/23/24



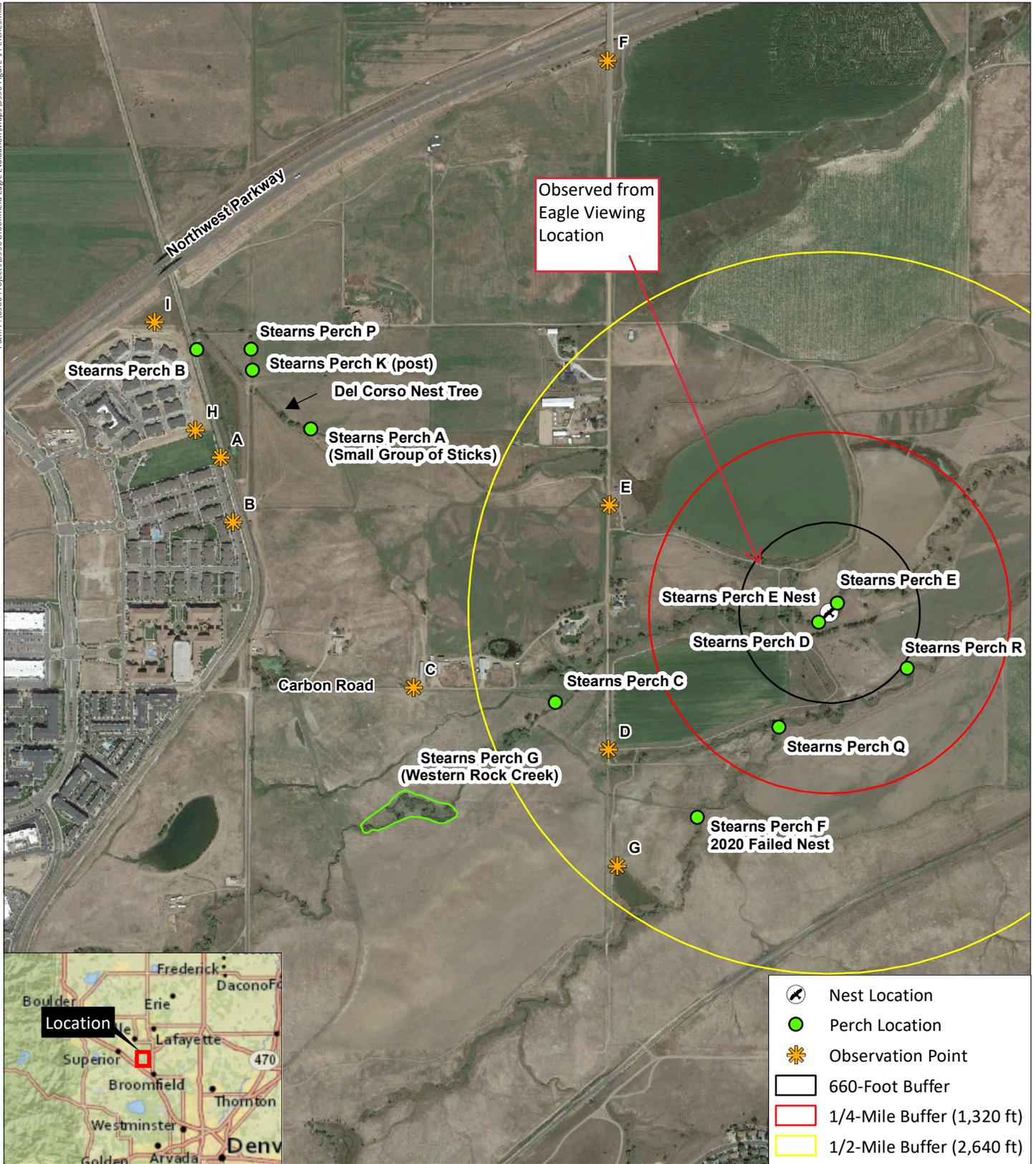
Construction at Stearns Lake Trailhead. 9:08 AM 8/23/24

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	9:10	NV	NV	NV			Recreation	0	Begin survey at observation point E. No eagles visible.	4	S
	9:13	NV	NV	NV			Recreation	0	No eagles visible.		
	9:16	NV	NV	NV			Recreation	0	Move to eagle viewing area.		
	9:19	NV	NV	NV			Recreation	0	No eagles visible.		
	9:22	NV	NV	NV			Recreation	0	No new observations.		
9:24		NV	NV	NV			Recreation	0	Biker passes on trail.		
	9:25	NV	NV	NV			Recreation	0	No new observations.		
	9:28	NV	NV	NV			Recreation	0	Biker passes on trail.		
9:29		NV	NV	NV			Recreation	0	Biker passes on trail.		
9:30		NV	NV	NV			Recreation	0	Unknwon raptor circling in the distance, SE of nest.		
	9:31	NV	NV	NV			Recreation	0	Unknwon raptor circling in the distance, SE of nest.		
9:32		NV	NV	NV			Recreation	0	Unknwon raptor circling in the distance, SE of nest.		
	9:34	NV	NV	NV			Recreation	0	Lost sight of raptor.		
	9:37	NV	NV	NV			Recreation	0	Biker passes on trail.		
	9:40	NV	NV	NV			Recreation	0	No new observations.	4	S
	9:43	NV	NV	NV			Recreation	0	No new observations.		
	9:46	NV	NV	NV			Recreation	0	No new observations.		
	9:49	NV	NV	NV			Recreation	0	Biker passes on trail.		
	9:52	NV	NV	NV			Recreation	0	No new observations.		
9:53		NV	NV	NV			Recreation	0	Biker passes on trail.		
	9:55	NV	NV	NV			Recreation	0	No new observations.		
9:56		NV	NV	NV			Recreation	0	Biker passes on trail.		
	9:58	NV	NV	NV			Recreation	0	No new observations.		
	10:01	NV	NV	NV			Recreation	0	Walk back to observation point E		
	10:04	NV	NV	NV			Recreation	0	No new observations.		
	10:05	NV	NV	NV			Recreation	0	End of survey. Drive to Vive Construction Area.	4	S

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

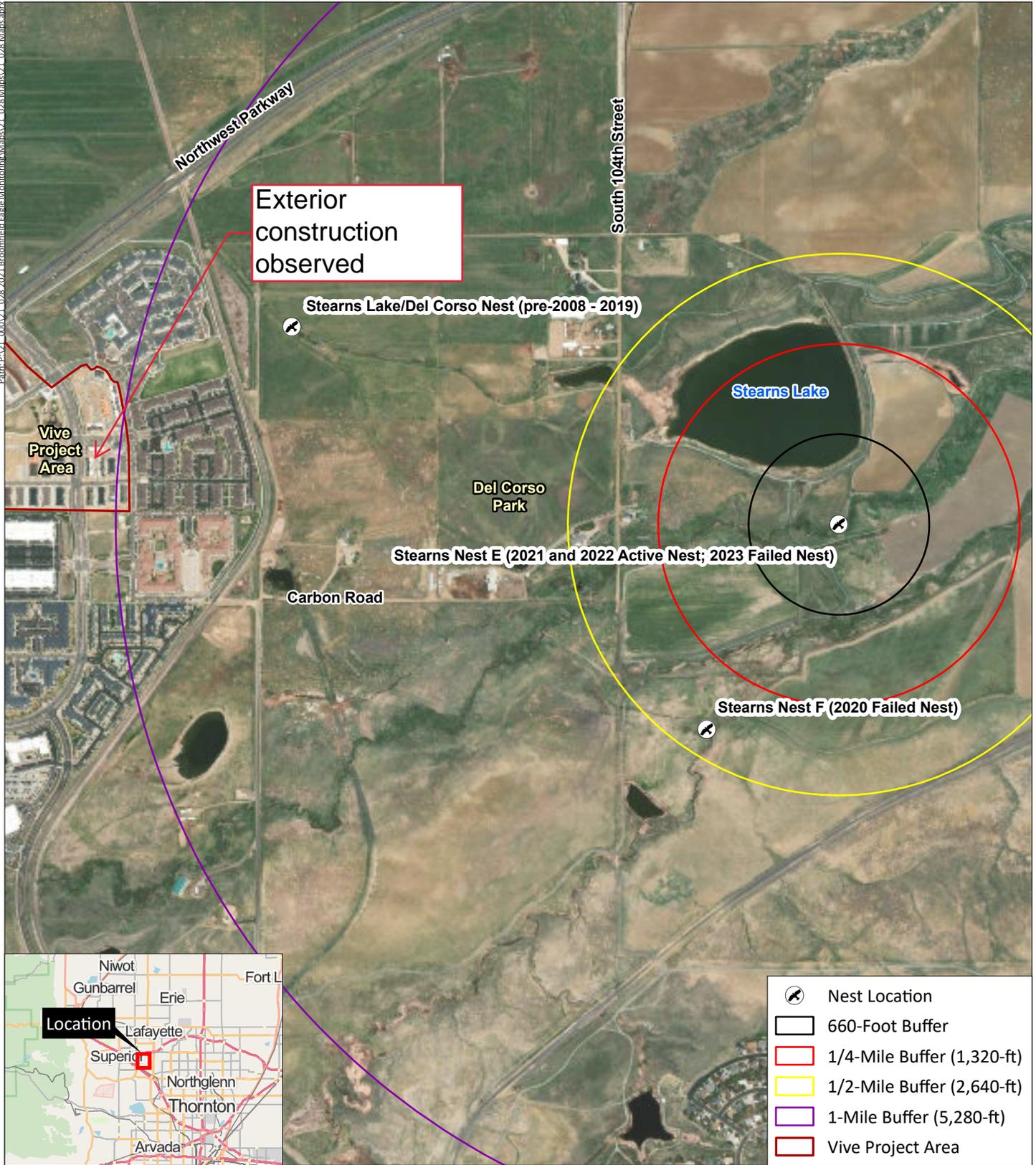
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Figure 1
Observation Points and
Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





Stearns Lake Eagle Nest Monitoring

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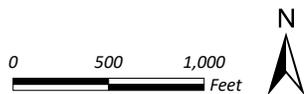


Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	9/24/2024	12:45	2:45	JTD	A, D, H, Obs. Area	CL
Noise	Start	NA	End	NA	Temp (F)	72 75

Number of adult Bald Eagles detected	2
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point A, walking north along the trail to Observation Point H. No eagles or nests were observed. After moving to Observation Point D, A1 and A2 were observed perched in Perch C. A1 and A2 flew to the south until no longer visible. Light recreation from humans included walking and biking. A Boulder Open Space truck along with a generator were operating in the prairie dog colony directly west of nest tree. Ground construction activities at the Stearns Lake Trailhead have continued. No disturbance indicators observed throughout the survey. At Vive construction site there was exterior construction and painting observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



A1 and A2 perched in Perch C.



Exterior construction at Vive Site.



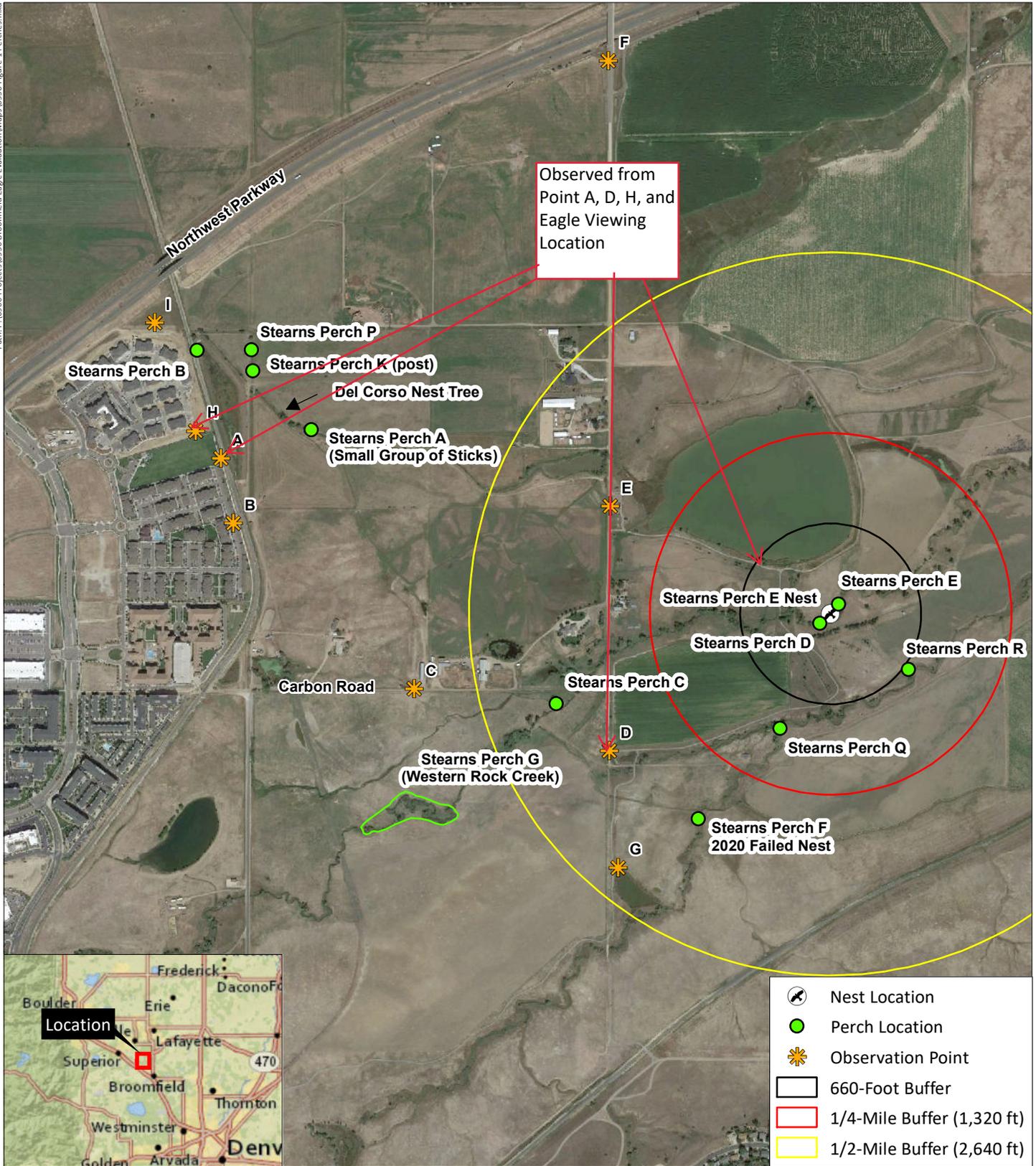
Ground construction at Stearns Lake Trailhead.

Time (Continuous)	3 min. obs.	Behavior			Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Type	DI		Spd.	Dir.
12:45	12:45	NV	NV	NV	Recreation	0	Arrive at Obs Pt A. No eagles observed.	0	N/A
	12:48	NV	NV	NV	Recreation	0	No new observations.		
	12:51	NV	NV	NV	Recreation	0	Walking to Obs Pt H.		
	12:54	NV	NV	NV	Recreation	0	Arrive at Obs Pt H.		
	12:57	NV	NV	NV	Recreation	0	No new observations.		
	1:00	NV	NV	NV	Recreation	0	Moving to eagle viewing location.		
	1:03	NV	NV	NV	Recreation	0	No new observations.		
	1:06	NV	NV	NV	Recreation	0	No new observations.		
	1:09	NV	NV	NV	Recreation	0	Arrive at the Stearns Lake trailhead. Walking to eagle viewing area.		
1:11		NV	NV	NV	Recreation	0	Arrive at eagle viewing area.		
	1:12	NV	NV	NV	Recreation	0	No new observations.		
	1:15	NV	NV	NV	Recreation	0	No new observations.	2	SE
	1:18	NV	NV	NV	Recreation	0	No new observations.		
	1:21	NV	NV	NV	Recreation	0	Pedestrian goes by eagle viewing area on a bike.		
	1:24	NV	NV	NV	Recreation	0	No new observations.		
	1:27	NV	NV	NV	Recreation	0	No new observations.		
	1:30	NV	NV	NV	Recreation	0	No new observations.		
	1:33	NV	NV	NV	Recreation	0	No new observations.		
	1:36	NV	NV	NV	Recreation	0	No new observations.		
	1:39	NV	NV	NV	Recreation	0	No new observations.		
	1:42	NV	NV	NV	Recreation	0	No new observations.		
	1:45	NV	NV	NV	Recreation	0	No new observations.	2	SE
	1:48	NV	NV	NV	Recreation	0	No new observations.		
	1:51	NV	NV	NV	Recreation	0	No new observations.		
	1:54	NV	NV	NV	Recreation	0	No new observations.		
	1:57	NV	NV	NV	Recreation	0	No new observations.		
	2:00	NV	NV	NV	Recreation	0	No new observations.		
2:01		NV	NV	NV	Recreation	0	Moving to Obs Pt D.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

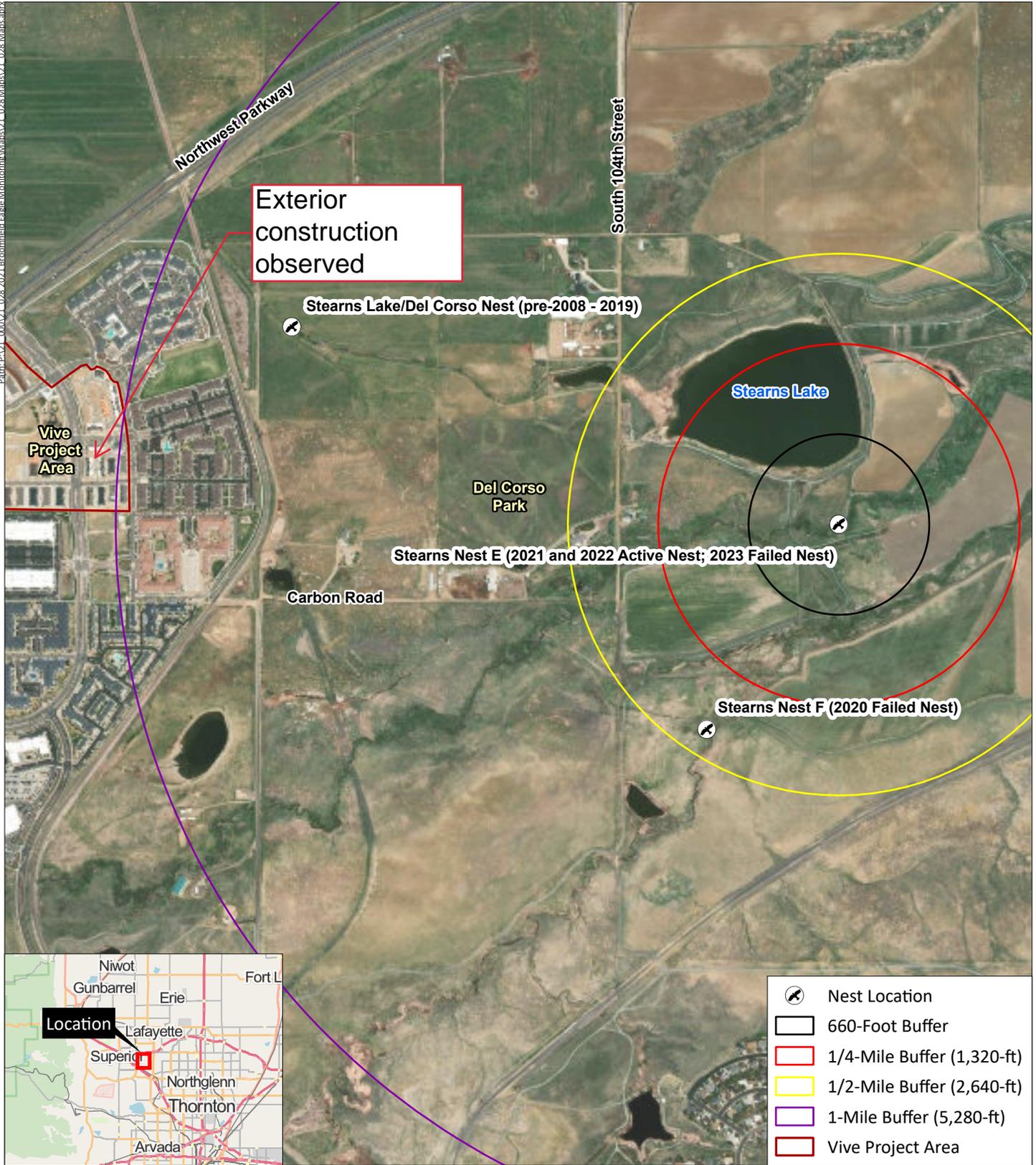
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 October 27, 2020





- Nest Location
- 660-Foot Buffer
- 1/4-Mile Buffer (1,320-ft)
- 1/2-Mile Buffer (2,640-ft)
- 1-Mile Buffer (5,280-ft)
- Vive Project Area

Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
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 Longitude 105.117848°W, Latitude 39.948812°N
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 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023

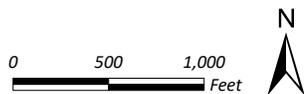


Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	10/16/2024	10:00	11:05	IMM	Obs Pt. H	CL
Noise	Start	NA	End	NA	Temp (F)	56 70

Number of adult Bald Eagles detected	2
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point H. A1 and A2 observed perched in Del Corso nest tree. Light recreation from humans included walking, running and playing at the park. Disturbance from magpie resulted in peals from A1, no disturbance from humans observed. At Vive construction site there was no active construction, construction appears to be almost complete.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mnh)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

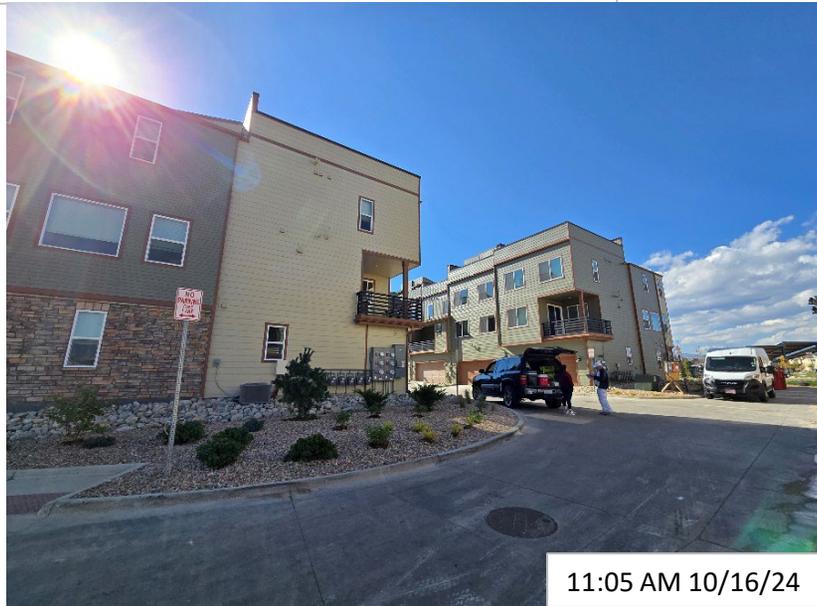
Photo (s)

A1 and A2 in Del Corso nest tree.

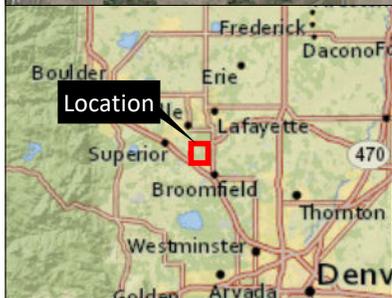
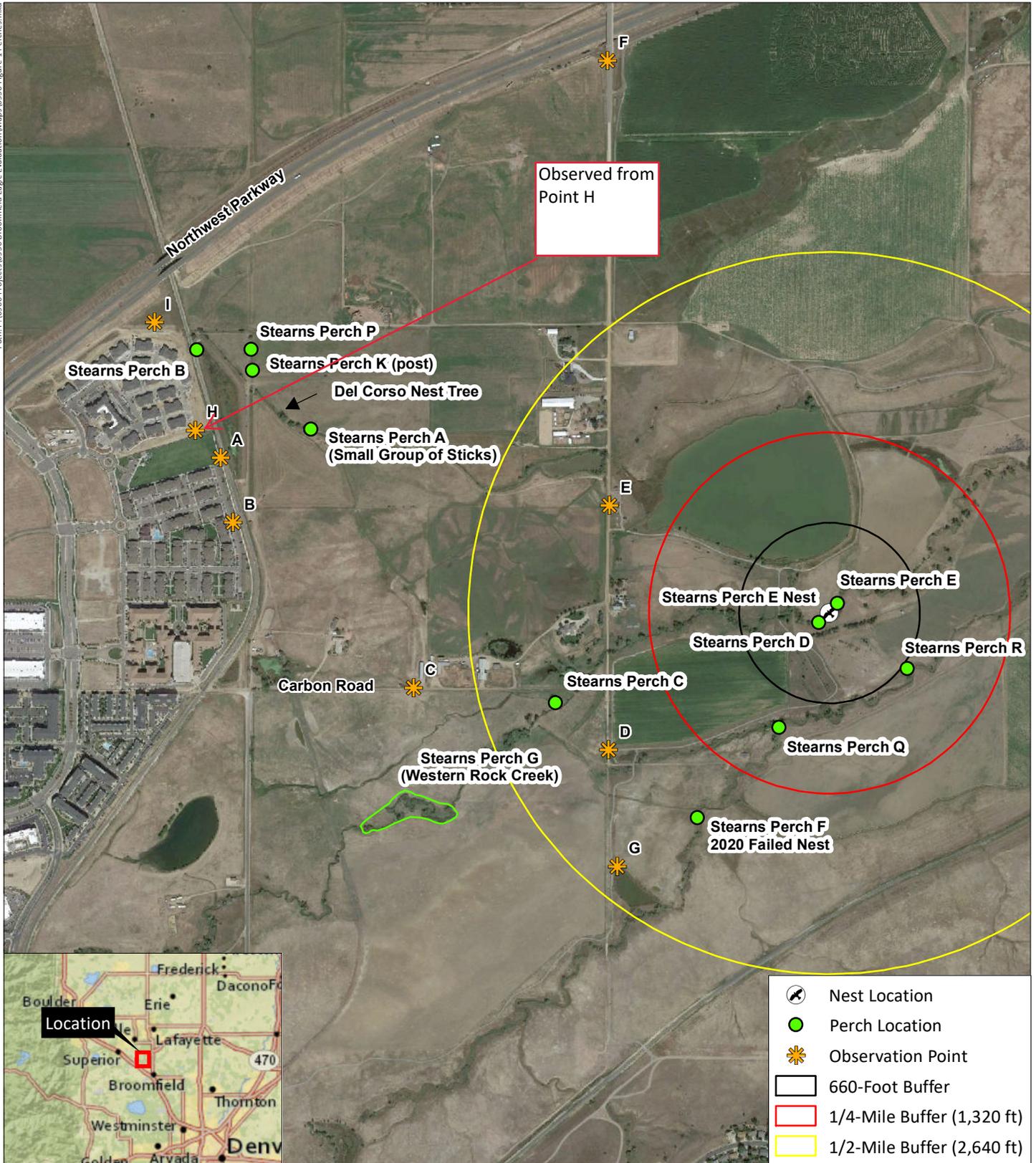


10:21 AM 10/16/24

Exterior construction at Vive site



11:05 AM 10/16/24



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

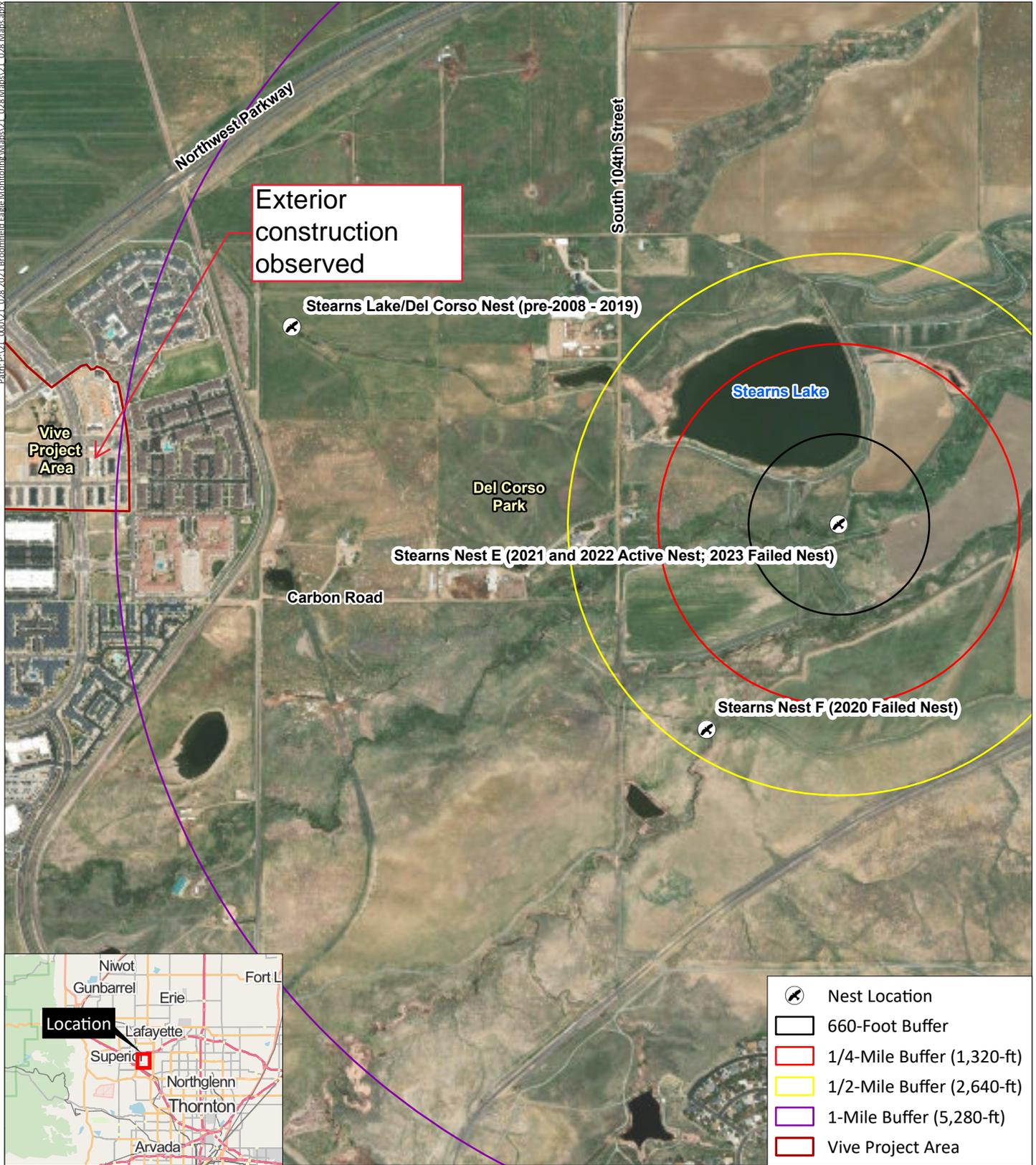
Sections 21,22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 490856mE, 4421186mN
 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado



Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020





- Nest Location
- 660-Foot Buffer
- 1/4-Mile Buffer (1,320-ft)
- 1/2-Mile Buffer (2,640-ft)
- 1-Mile Buffer (5,280-ft)
- Vive Project Area

Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
 Longitude 105.117848°W, Latitude 39.948812°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2024 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	12/9/2024	9:53	11:08	JTD	H	OC
Noise	Start	End	Temp (F)	32	35	

Number of adult Bald Eagles detected	3
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point (Obs Pt) H. Survey moved to a new Obs Pt J (39.9579782, -105.1346819) and A1 was observed in a tree north of West Dillon Road where a new nest is being constructed (39.9600072, -105.1338440). Survey moved to a new Obs Pt K (39.943362, -105.109380), north of Obs Pt D. An adult eagle, assumed to be A1 based on its earlier flight path, was observed in Perch Q before quickly moving to Perch F. A1 remained in Perch F for the rest of the survey. Survey moved to Obs Pt E and Eagle Viewing Area. A2 was observed from the Eagle Viewing Area in Perch D and remained in Perch D for the rest of the survey. Light recreation from humans included walking, however, no disturbance from humans was observed. There was no active construction ongoing at the Vive construction site, construction appears to be almost complete.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Photo (s)



Exterior construction at Vive site.



A1 perched in new nest tree



New nest being constructed.



A3 perched in Perch D.

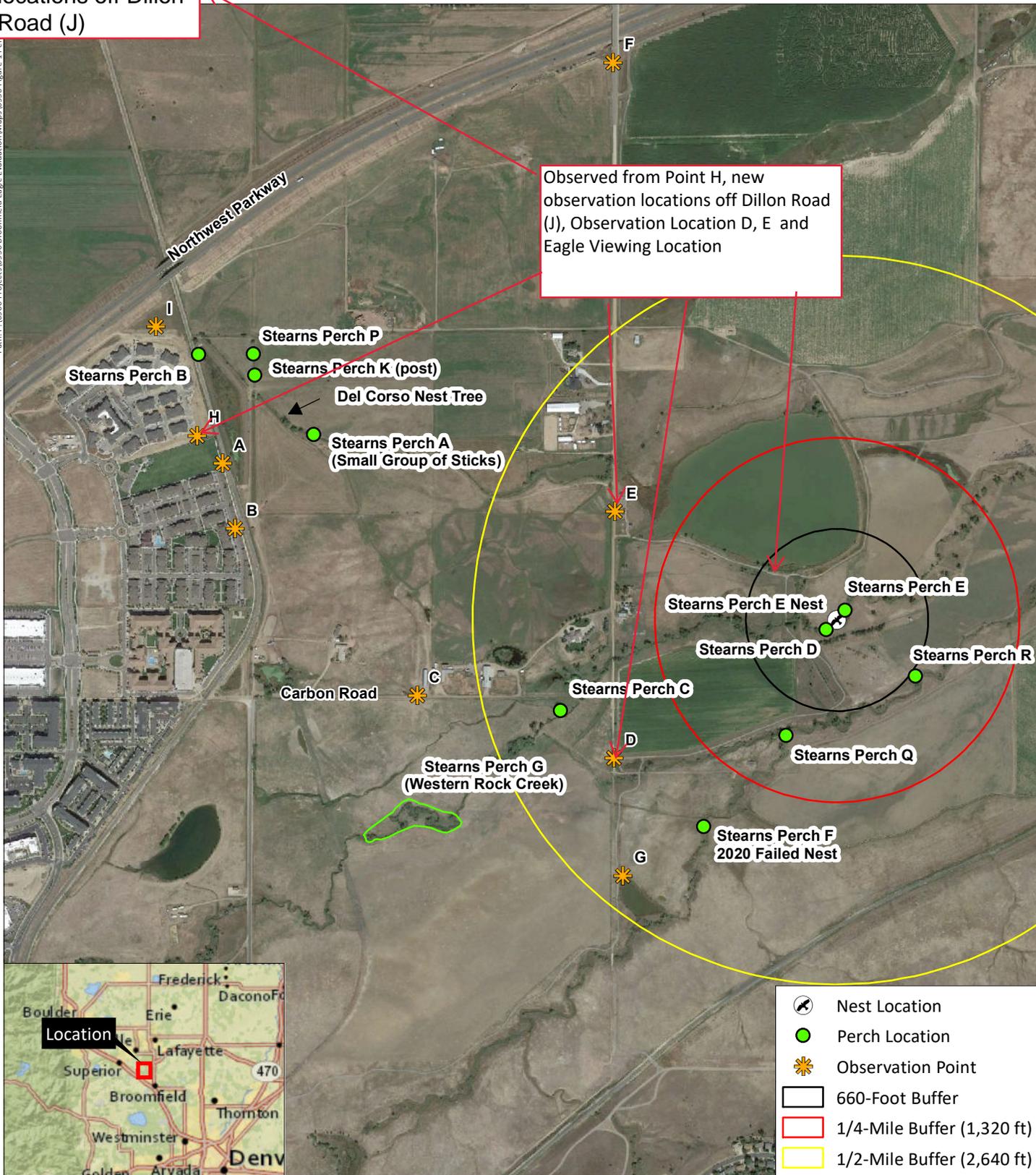
Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
9:53	9:53	NV	NV				Recreation	0	Arrive at Observation Point (Obs Pt) H, no eagles observed.	2	SE
9:56	9:56	NV	NV				Recreation	0	No new observations.		
	9:59	NV	NV				Recreation	0	No new observations.		
	10:02	NV	NV				Recreation	0	Two pedestrians walk on the recreational trail.		
	10:05	NV	NV				Recreation	0	No new observations.		
10:06		NV	NV				Recreation	0	Walking back to car, moving to new nest location.		
	10:08	P6	NV				Recreation	0	Driving to new nest location.		
10:10		P6	NV				Recreation	0	Arrive at new nest location, A1 observed perched in nest tree.		
	10:11	PR	NV				Recreation	0	A1 observed preening.		
	10:14	P6	NV				Recreation	0	No new observations.		
	10:17	P6	NV				Recreation	0	No new observations.		
10:19		FLY	NV				Recreation	0	A1 flies southeast.		
	10:20	FLY	NV				Recreation	0	No new observations.		
10:21		NV	NV				Recreation	0	A1 no longer visible, moving to new Obs Pt K		
	10:23	NV	NV				Recreation	0	Moving to new Obs Pt K	1	SE
	10:26	NV	NV				Recreation	0	Moving to new Obs Pt K		
10:27		P5	NV				Recreation	0	Arrive at Obs Pt K (north of Obs. D), A1 is observed at Perch Q.		
	10:29	P5	NV				Recreation	0	No new observations.		
10:31		FLY	NV				Recreation	0	A1 flies south.		
	10:32	P5	NV				Recreation	0	A1 perches on Perch F.		
	10:35	P5	NV				Recreation	0	No new observations.		
	10:38	P5	NV				Recreation	0	No new observations.		
10:39		P5	NV				Recreation	0	Moving to Obs Pt E.		
	10:41	NV	NV				Recreation	0	Arrive at Obs Pt E, no eagles observed.		
10:42		NV	NV				Recreation	0	Walking to eagle viewing area		
	10:44	P5	NV				Recreation	0	Walking to eagle viewing area, A1 observed still on Perch F.		
10:46		P5	NV				Recreation	0	Arrive at eagle viewing area, A1 still on Perch F.		
	10:47	P5	P3				Recreation	0	A2 observed in perch D.		
	10:50	P5	P3				Recreation	0	No new observations.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

New observation locations off Dillon Road (J)

Observed from Point H, new observation locations off Dillon Road (J), Observation Location D, E and Eagle Viewing Location



Broomfield Eagle Evaluation

Image Source: Google© Earth September 12, 2019

Sections 21,22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 490856mE, 4421186mN
 Longitude 105.107025°W, Latitude 39.940747°N
 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado

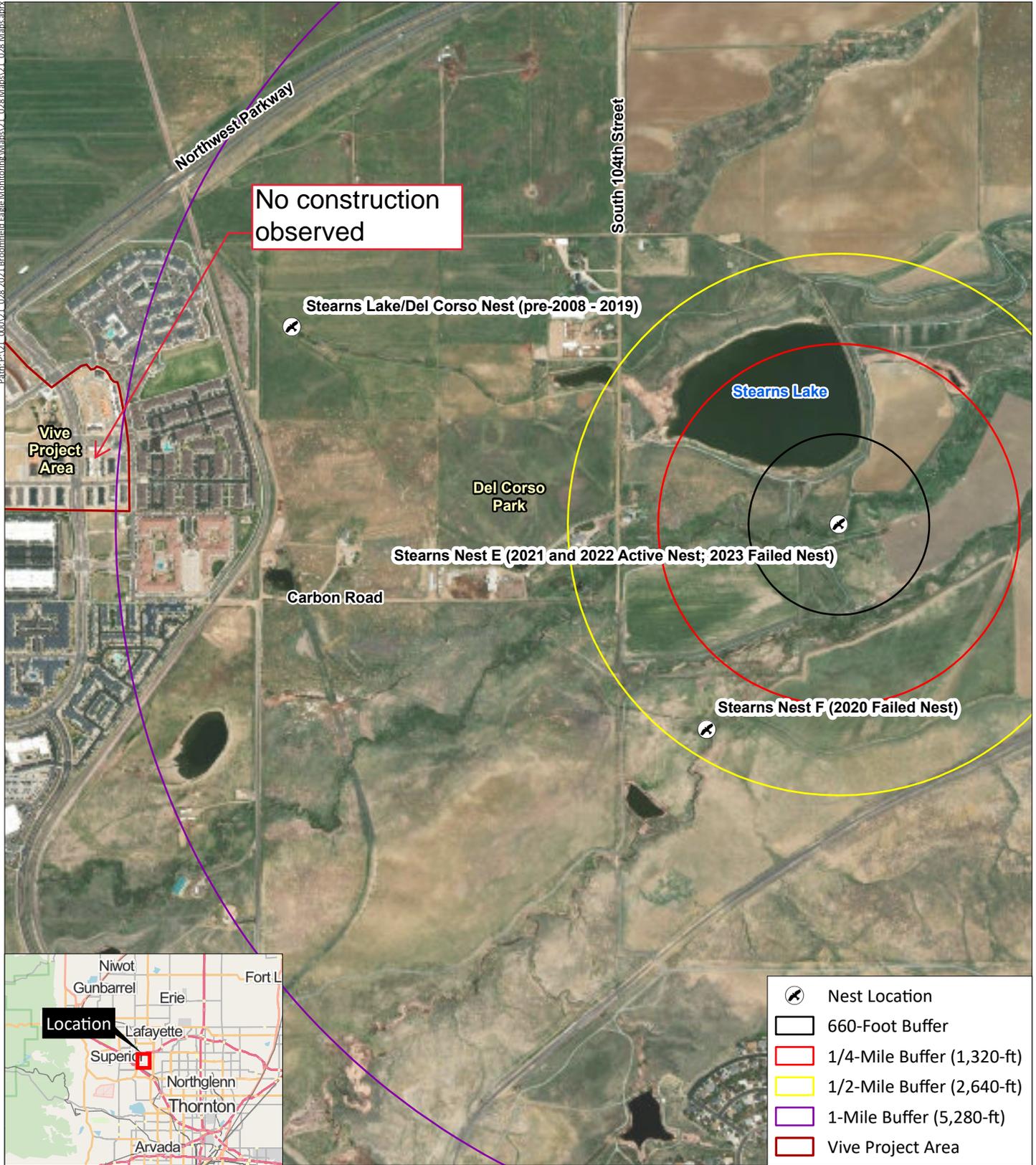


Figure 1
 Observation Points and
 Common Perch Locations

Prepared for: City of Broomfield
 Open Space and Trails
 File: 6950 Figure 1 Perches.mxd (WH)
 October 27, 2020



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Stearns Lake Eagle Nest Monitoring

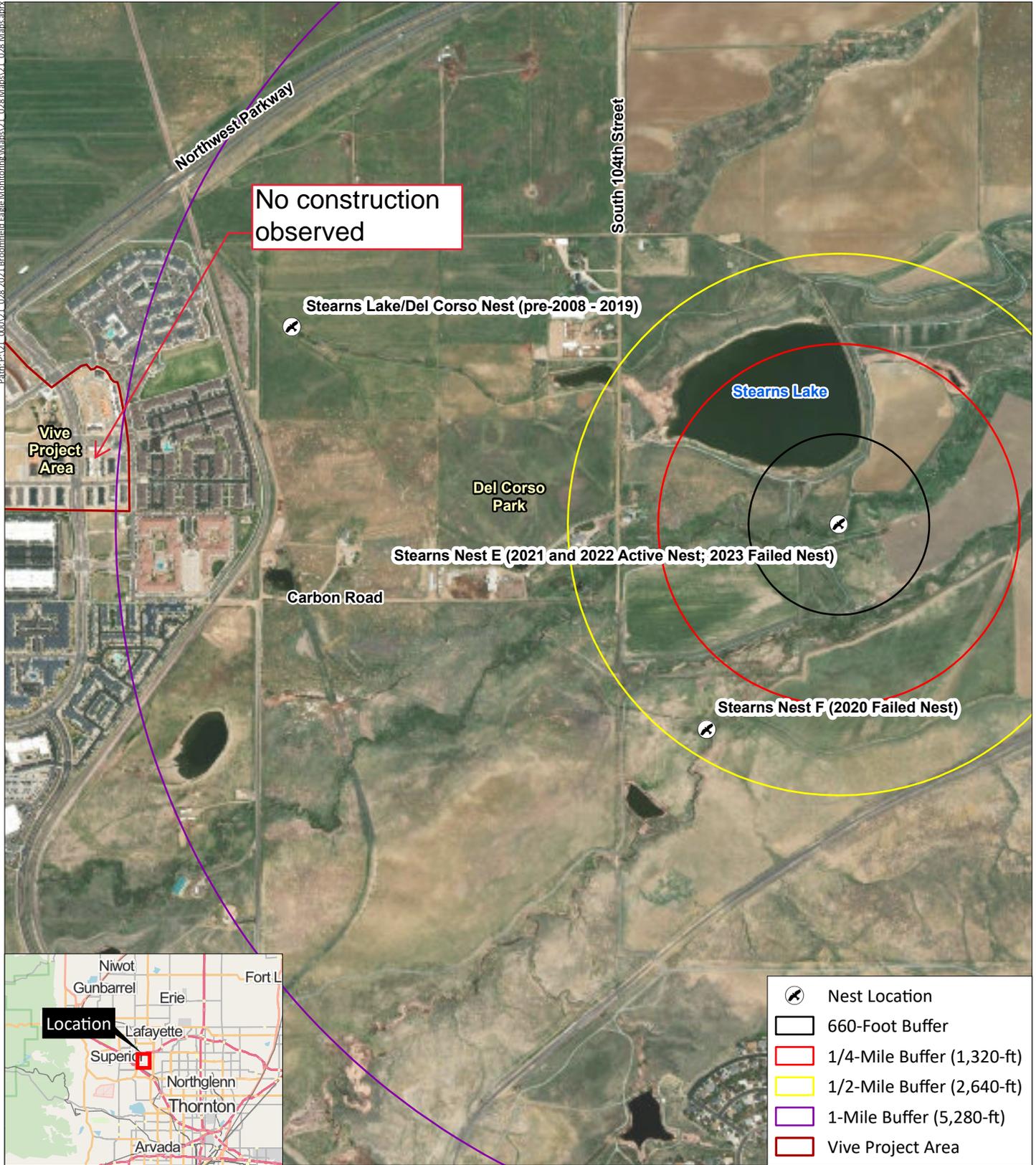
Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
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 USGS Lafayette, CO Quadrangle
 City and County of Broomfield and Boulder County, Colorado
 Image Source: Maxar Technologies© May 5, 2023



Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024





Stearns Lake Eagle Nest Monitoring

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 489933mE, 4422082mN
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Figure 2
Nest Locations and Buffers
2018 - 2023

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 2 2024R.mxd (WH)
 February 4, 2024



2025 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
Stearns	2/5/2025	7:55	8:55	JTD	H, J, K	CL
Noise	Start		End		Temp (F)	35 46

Number of adult Bald Eagles detected	2
Number of nestlings detected	0
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

² Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

Survey began at Observation Point (Obs Pt) J, no eagles were observed and the artificial platform nest appeared to have deterrorated in size (smaller). Survey moved to Obs Pt H to check the surrounding perches. No eagles were observed from Obs Pt H. Survey moved to Obs Pt K, where A1 was observed perched in a tree just north of Perch C and A2 was observed in Perch C. A new nest was observed in Perch C, with A2 observed gathering a stick and constructing the nest. A1 was also observed obtaining nesting materials, however, was not observed in or constructing the nest. Survey ended from the old eagle viewing area. No other potential nesting sites were observed and no disturbance indicators were observed throughout the survey.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mnh)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



Current conditions at Vive Project Area



A1 observed in a tree north of Perch C



A2 constructing the nest on Perch C

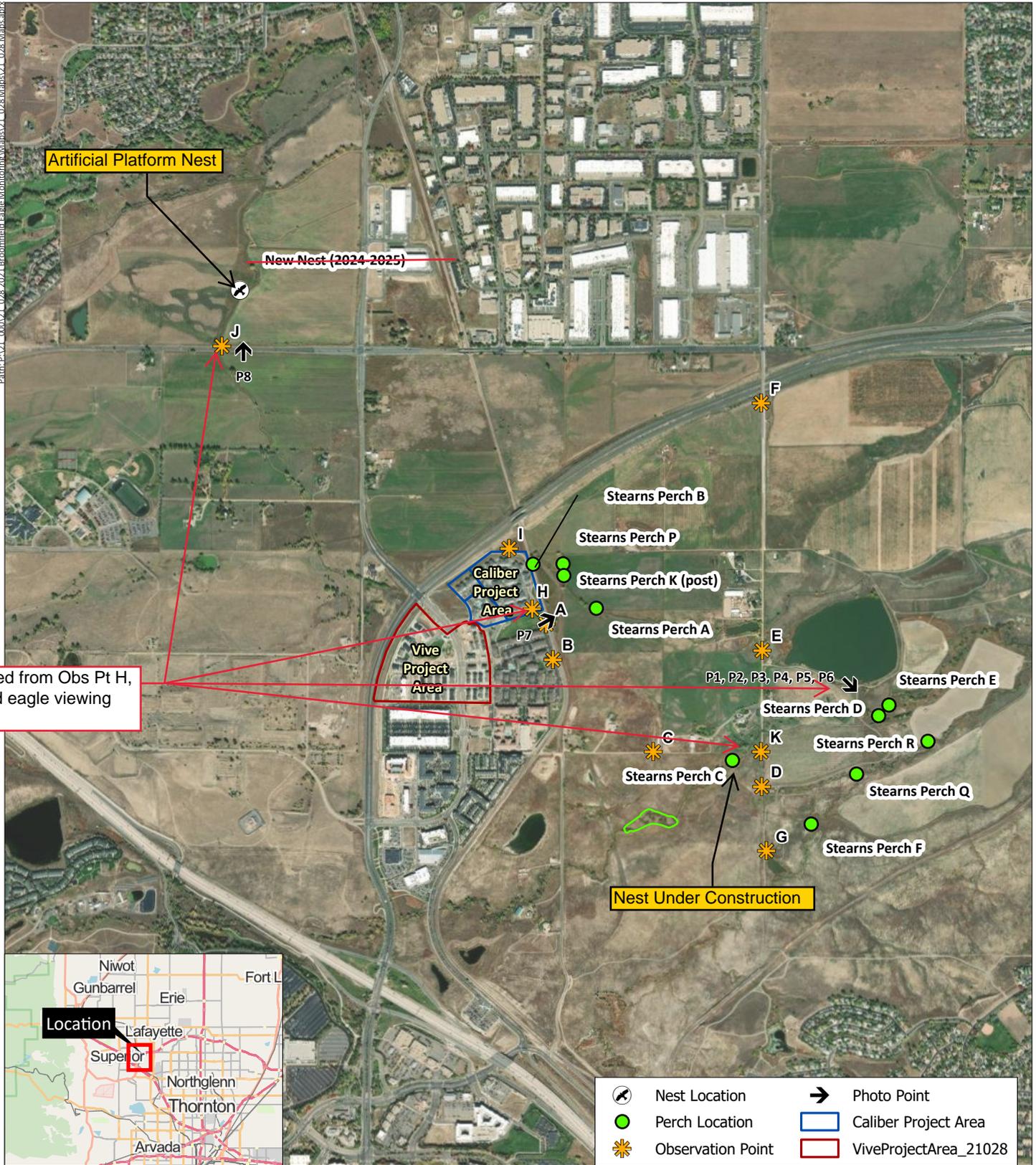
Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
7:55		NV	NV				Recreation	0	Arrive at Obs Pt J, no eagles observed.	2	E
	7:58	NV	NV				Recreation	0	No new observations.		
8:00		NV	NV				Recreation	0	Survey moving to Obs Pt H.		
	8:01	NV	NV				Recreation	0	No new observations.		
	8:04	NV	NV				Recreation	0	No new observations.		
8:05		NV	NV				Recreation	0	Arrive at Obs Pt H, no eagles observed and no construction activity observed at Vive project area.		
	8:07	NV	NV				Recreation	0	No eagles observed in the perches, survey moving to Obs Pt K.		
	8:10	NV	NV				Recreation	0	No new observations.		
	8:13	NV	NV				Recreation	0	No new observations.		
8:15		P3	P2				Recreation	0	Arrive at Obs Pt K, A2 observed in Perch C & A1 perched <50m in a tree to the north.		
	8:16	P3	P2				Recreation	0	No new observations.		
	8:19	P3	P2				Recreation	0	Pedestrians walk past Obs Pt K.		
	8:22	P3	P2				Recreation	0	No new observations.		
	8:25	P3	P2				Recreation	0	No new observations.	1	E
8:26		P3	P2				Recreation	0	A1 observed shifting positions.		
	8:28	P3	P2				Recreation	0	No new observations.		
8:29		FLY	P2				Recreation	0	A1 flies to Perch C with a stick.		
8:29		P2	P2				Recreation	0	A1 perches on Perch C.		
	8:31	P2	P2				Recreation	0	No new observations.		
8:32		FLY	P2				Recreation	0	A1 flies northwest.		
	8:34	P2	P2				Recreation	0	No new observations.		
	8:37	P2	P2				Recreation	0	No new observations.		
8:38		NC	P2				Recreation	0	A1 returns to Perch C with herbaceous nesting material.		
	8:40	P2	P2				Recreation	0	No new observations.		
	8:43	P2	FLY				Recreation	0	A2 observed shifting positions on Perch C, obtaining a stick and then flying.		
8:45		P2	NC				Recreation	0	A2 perches in the nest with the stick.		
8:45		P2	NC				Recreation	0	A2 observed constructing the nest.		
	8:46	P2	P1				Recreation	0	No new observations.		
	8:49	P2	P1				Recreation	0	No new observations.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on attached map

³. Mark disturbance on BBC property on attached map (Figure 2).

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other

Path: P:\21_000\21_028 2021 Broomfield Eagle Monitoring\Maps\21_028 Maps\21_028 Maps.aprx



	Nest Location		Photo Point
	Perch Location		Caliber Project Area
	Observation Point		ViveProjectArea_21028

Stearns Lake Eagle Nest Monitoring

Sections 17, 21, 22, 27, and 28, T1S, R69W; 6th PM
 UTM NAD 83: Zone 13N; 490856mE, 4421186mN
 Longitude 105.107025°W, Latitude 39.940747°N
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 Image Source: Maxar Technologies© May 5, 2023

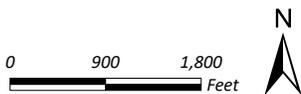


Figure 3
 Nest Locations, Buffers,
 Observation Points, and Perches
 2024

Prepared for: City of Broomfield
 Open Space and Trails
 File: 21_028 Figure 3 2024.mxd (WH)
 January 23, 2025



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