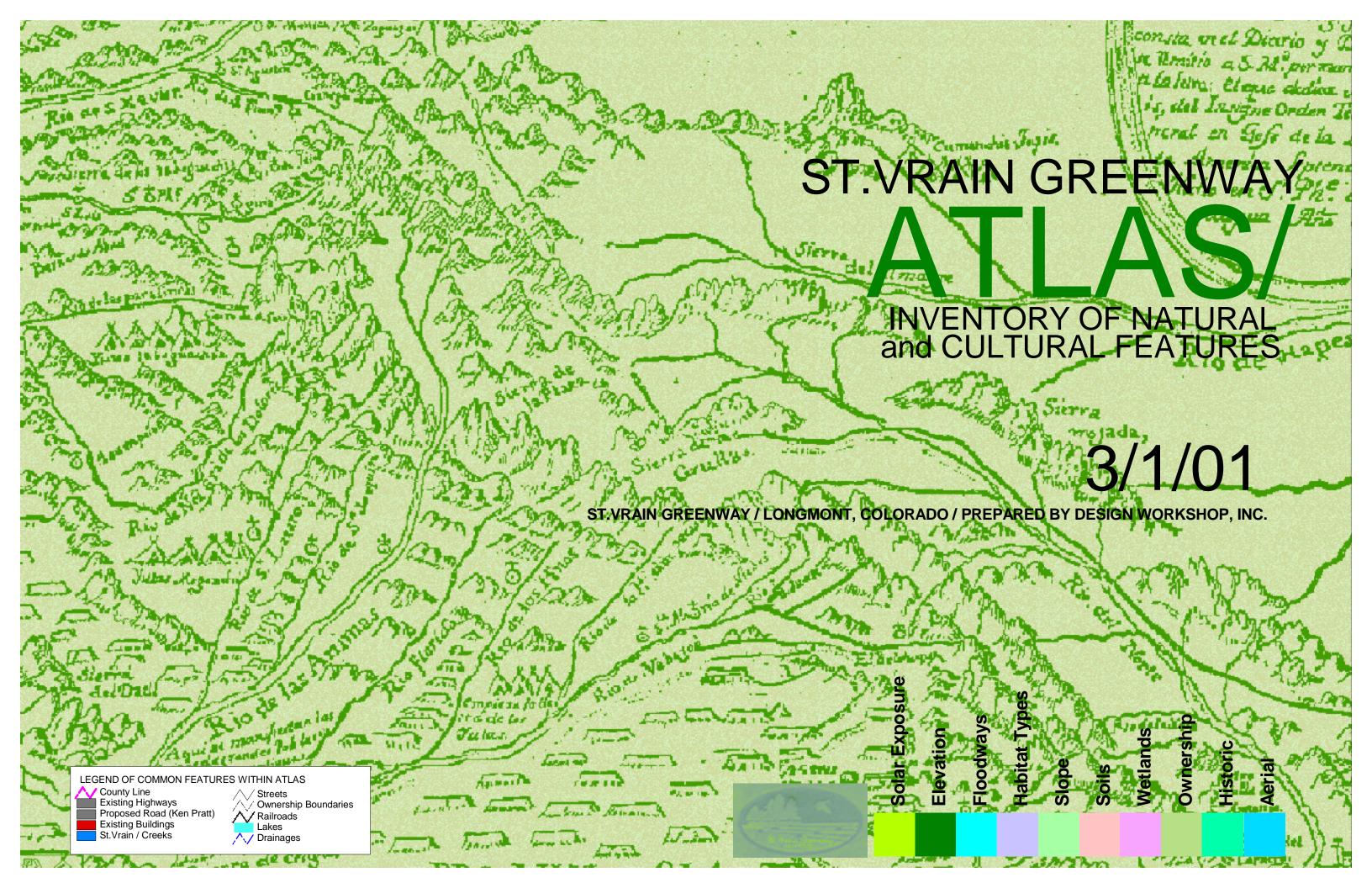
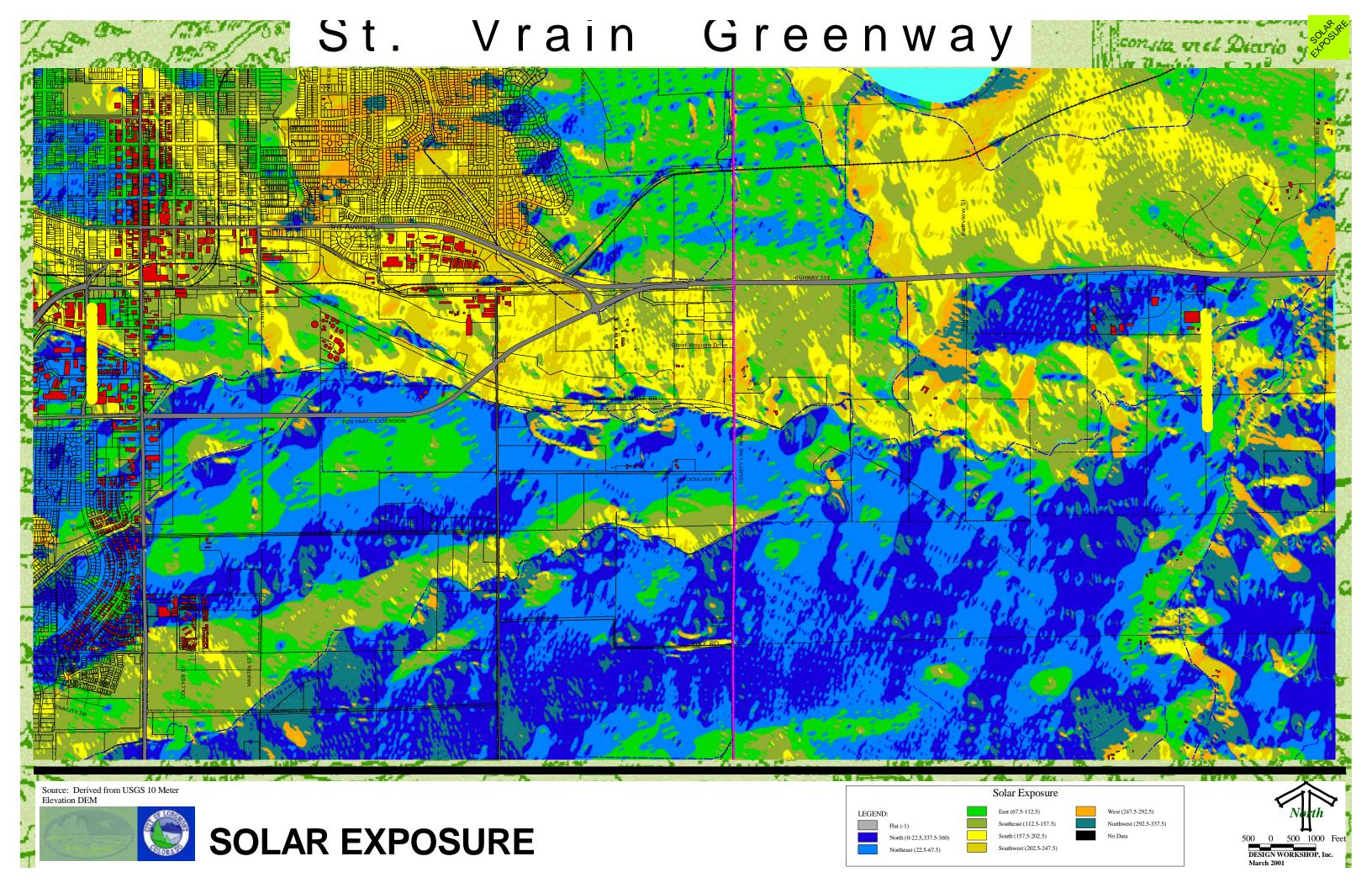
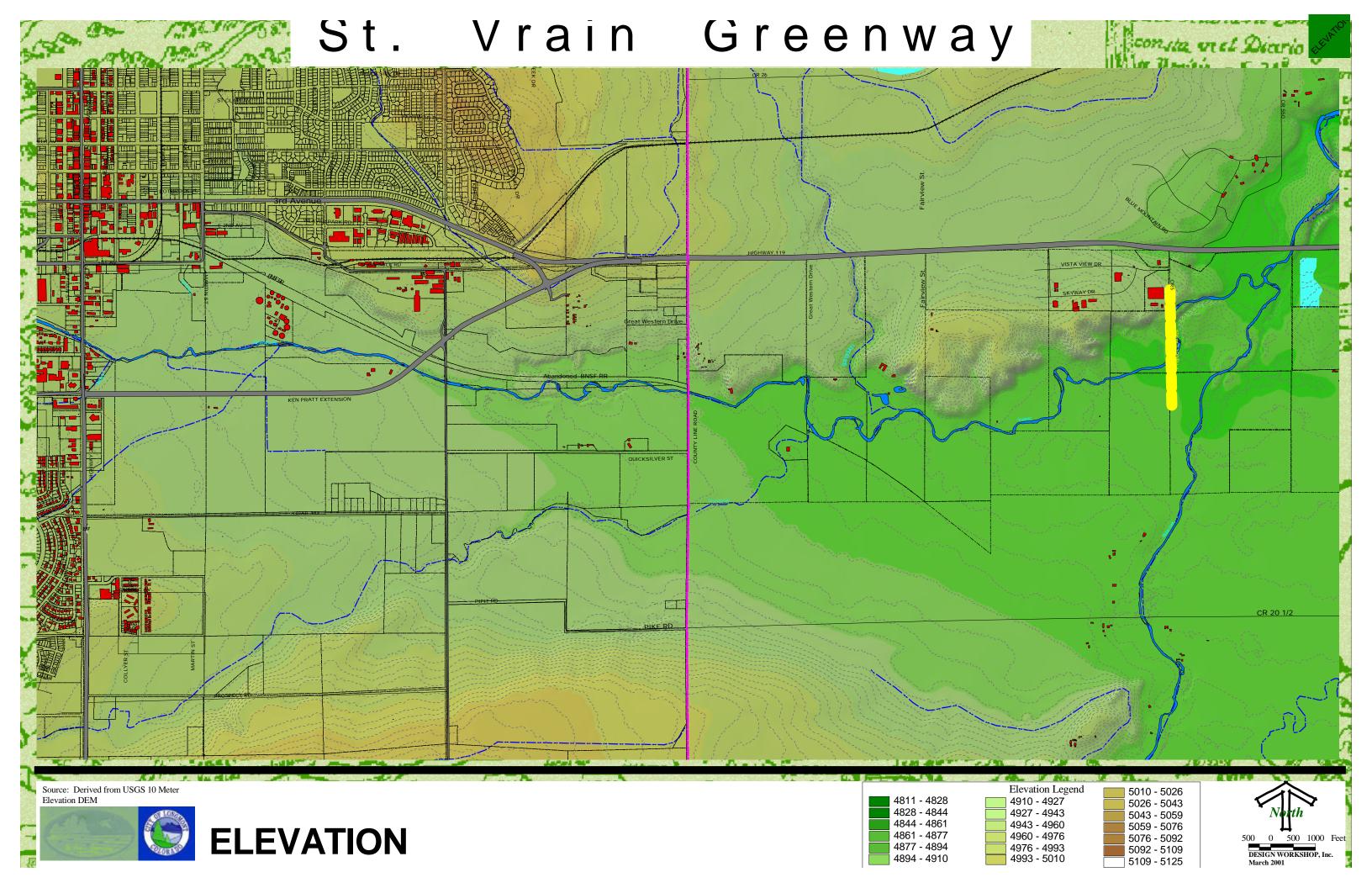
St. Vrain East Corridor Update

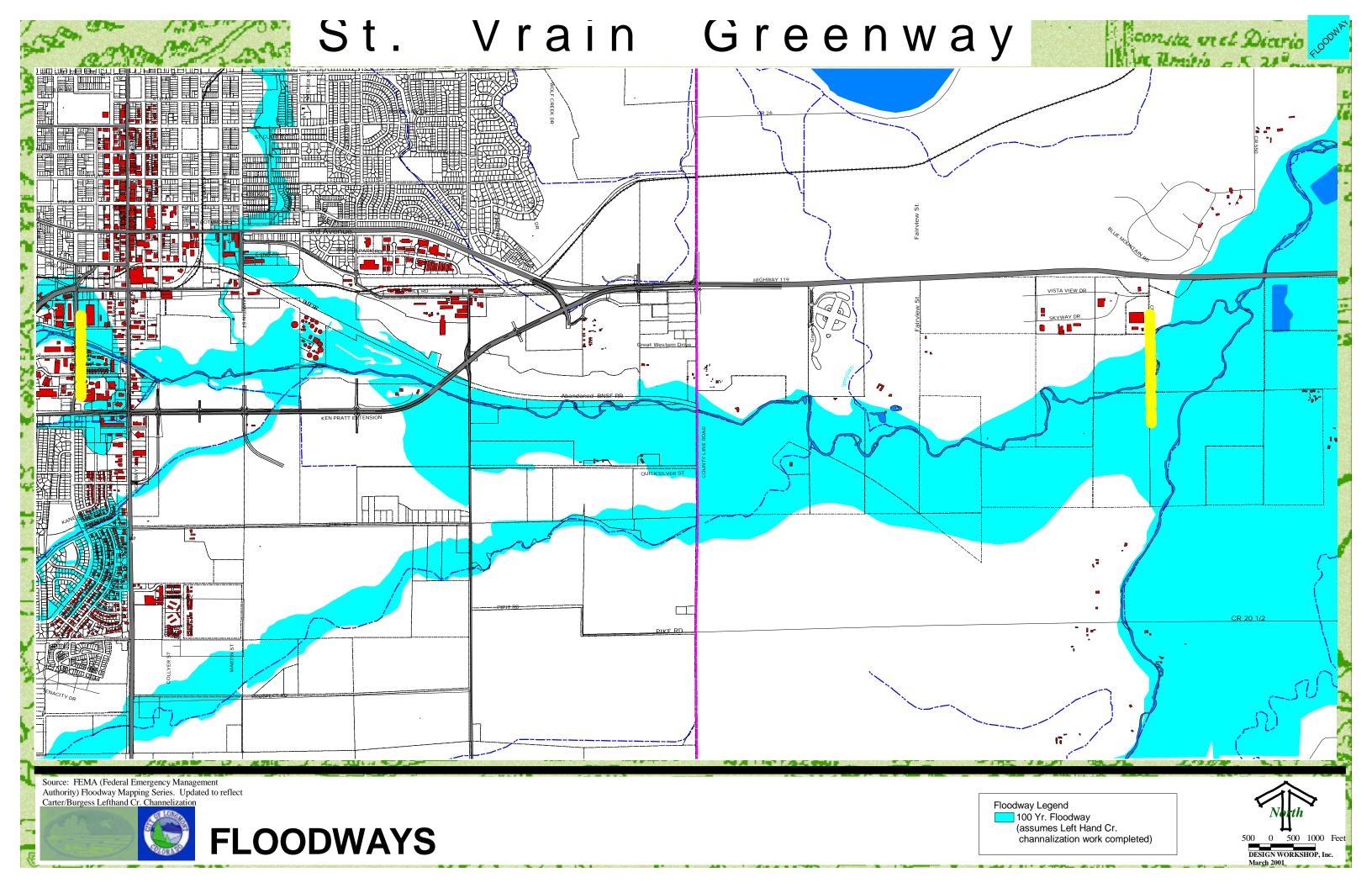
Appendix A

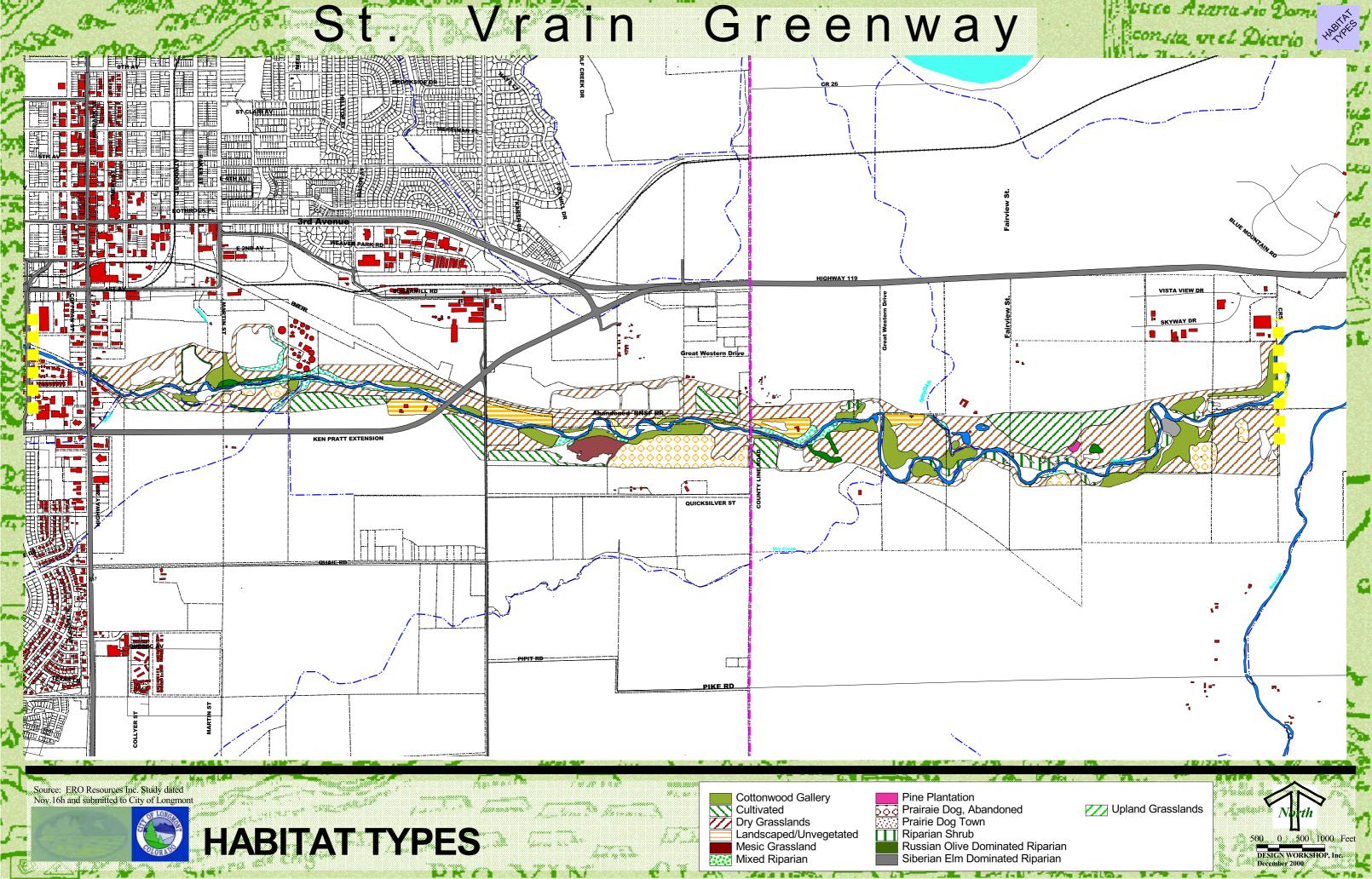
Atlas of Natural and Cultural Features

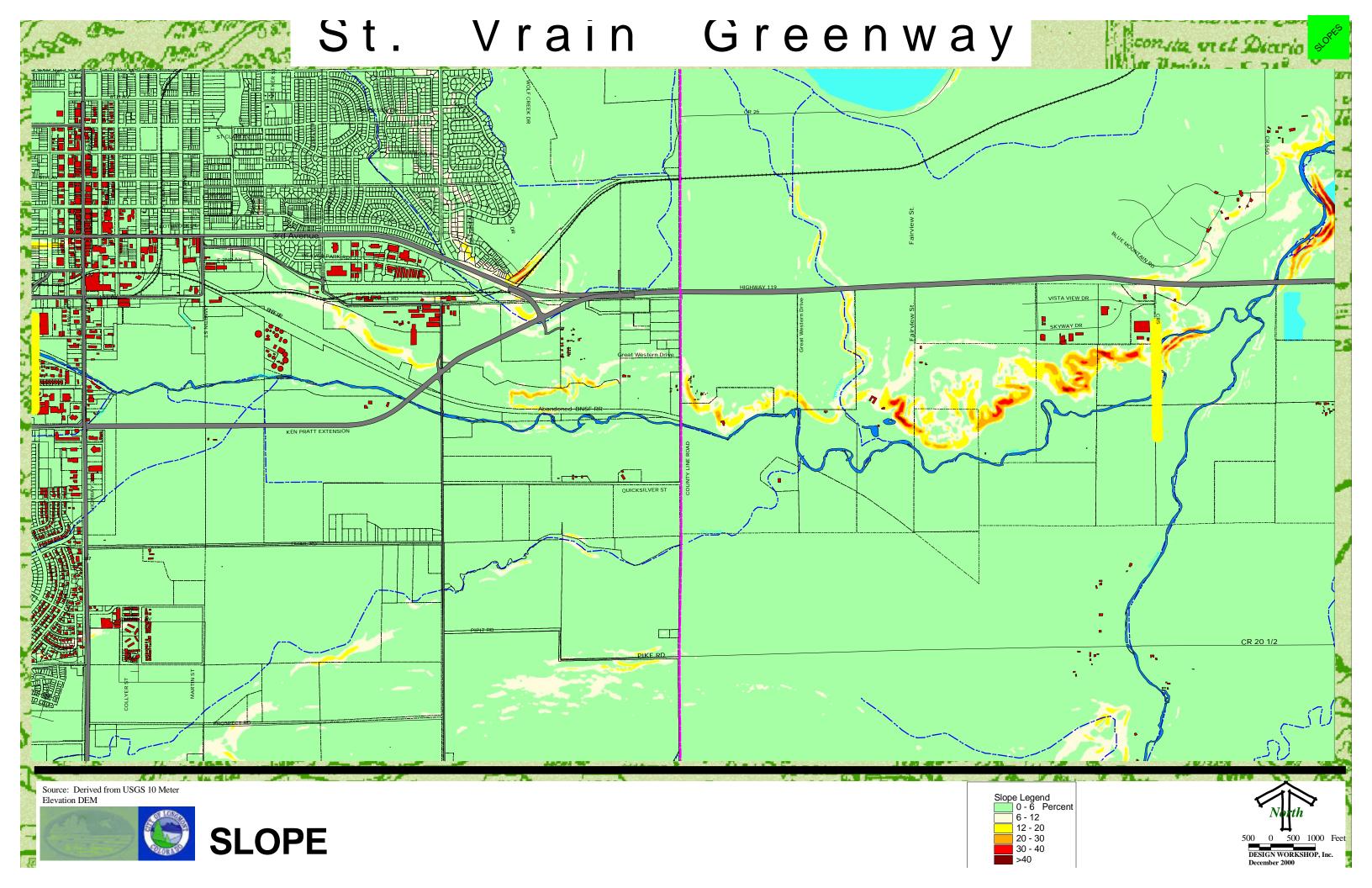


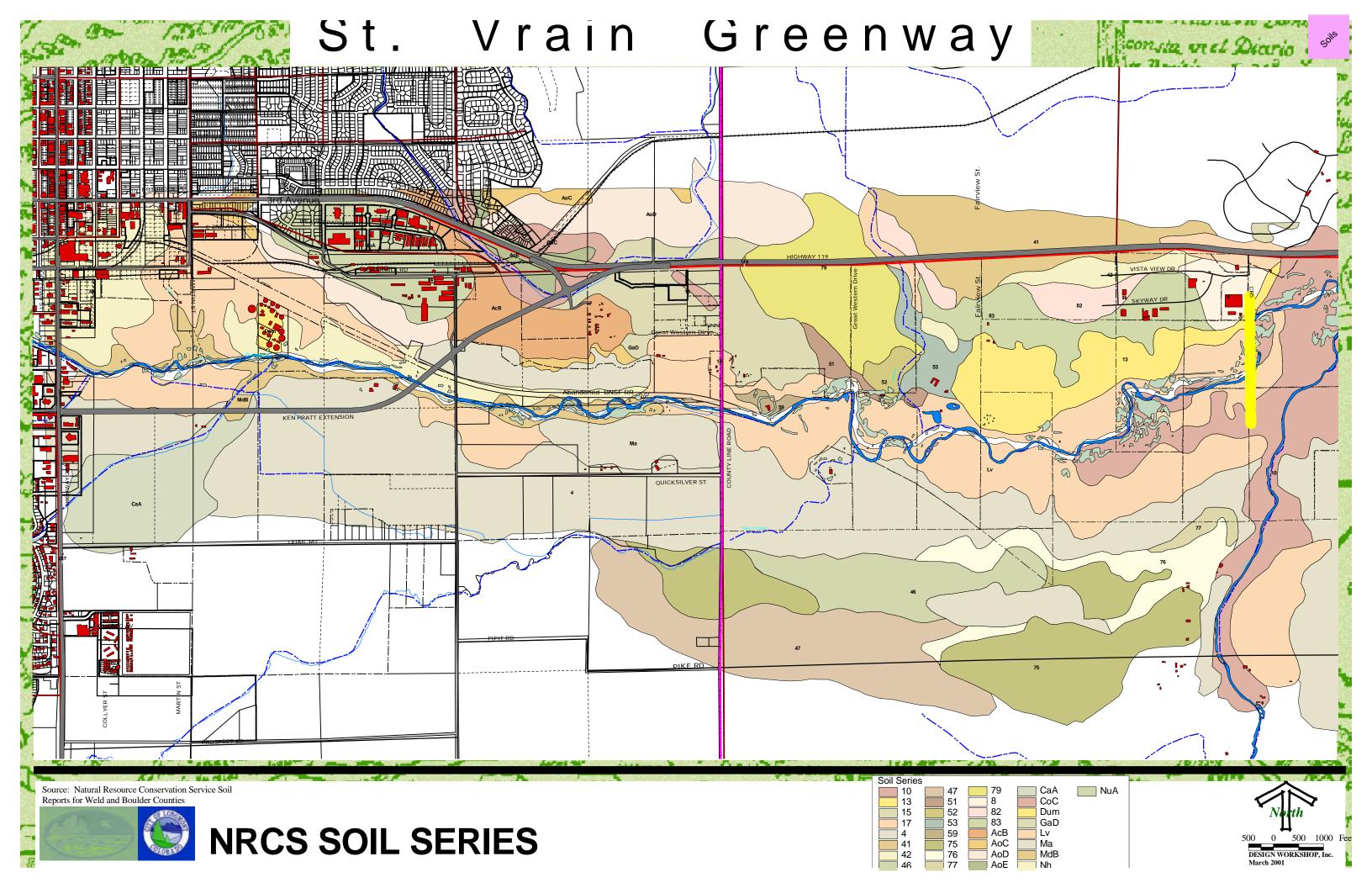






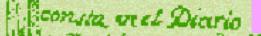


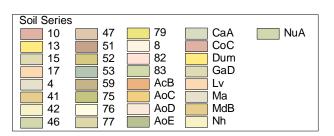




CATALON MOST DONE

St. Vrain Greenway





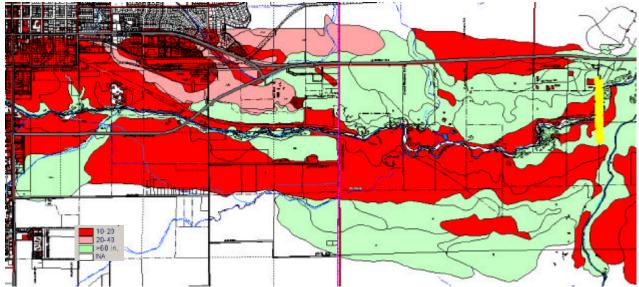
Soil Series Characteristics

Туре	Name Sin	Bq.	DepthBR	DepthWaterTable	ShrinkSwell	HydroGroup
AoD	Ascalon Otero Complex,5-9%	в	>60 in.	>6'	Low Medium	
Nh		2	>60 in.	.5-1.5	Medium	
Lv	Loveland Soils	2	>60 in.	2-4'	Medium	
CaA		4	>60 in.	2-4'	Low	
NuA		5	>60 in.	>6'	Medium	
		6	>60 in.	>6'	Low Medium	
AoC		2		>6'		
AoC	Ascalon Otero Complex,3-5%	1	>60 in.		Low Medium	
AoE		8	>60 in.	>6'	Low Medium	
Ma		2	>60 in.	4-5'	Low	
AcB	Ascalon Sandy Loam 10	-	>60 in.	>6'	Low Medium	
10	Bankard Sandy Loam 11	╫	>60 in.	>6'	Low	A
4	Aquolis and Aquents, Flooded 12	26	>60 in.	.5-1.5	Medium	D
CoC	Colby Silty Clay Loam, 3-5% 13	32	>60 in.	>6'	Medium	
15	Colby Loam, 1-3% 14	42	>60 in.	>6'	Low	В
MdB	Manter Sandy Loam, 1-3% 15	54	>60 in.	>6'	Low	
Dum	Not Soil 16	<u>a</u>	NA	NA	NA	
GaD	Gaynor Silty Clay Loam, 3-9% 17	71	20-40	>6'	High	
17	Clolby Loam, 5-9% 18	83	>60 in.	>6'	Low	В
79	Weld Loam 19	91	>60 in.	>6'	Low	С
59	Shingle Loam 20	01	10-20	>6'	Low	D
51	Otero Sandy Loam, 1-3% 21	12	>60 in.	>6'	Low	В
53	Otero Sandy Loam, 5-9% 22	21	>60 in.	>6'	Low	В
52	Otero Sandy Loam, 3-5% 23	31	>60 in.	>6'	Low	В
13	Cascajo Grav.SandyLoam 24	41	>60 in.	>6'	Low	A
77	Vona Sandy Loam, 3-5% 25	51	>60 in.	>6'	Low	В
83	Wiley-Colby Complex, 3-5% 26	a .	>60 in.	>6'	Low	В
82	Wiley-Colby Complex, 1-3% 27	72	>60 in.	>6'	Low	В
41	Nunn Clay Loam, 0-1% 28	81	>60 in.	>6'	Medium	С
42	Nunn Clay Loam, 1-3% 29	92	>60 in.	>6'	Medium	С
8	Ascalon Loam 30	01	>60 in.	NA	Low	В
76	Vona Sandy Loam, 1-3 31	12	>60 in.	>6'	Low	В
75	Vona Sandy Loam, 0-1% 32	23	>60 in.	>6'	Low	В
46	Olney Fine Sandy Loam, 0-1% 33		>60 in.	>6'	Low	В
47	Olney Fine Sandy Loam, 1-3% 34		>60 in.	>6'	Low	В

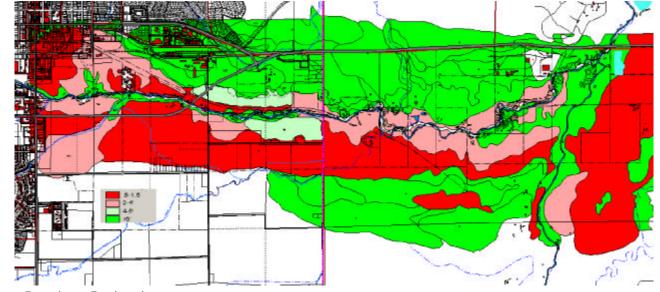
Source: Natural Resource Conservation Service Soil Reports for Weld and Boulder Counties



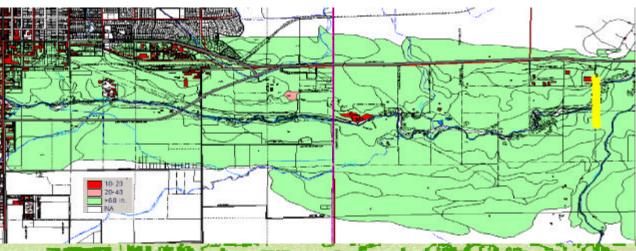
Shrink/Swell Classification

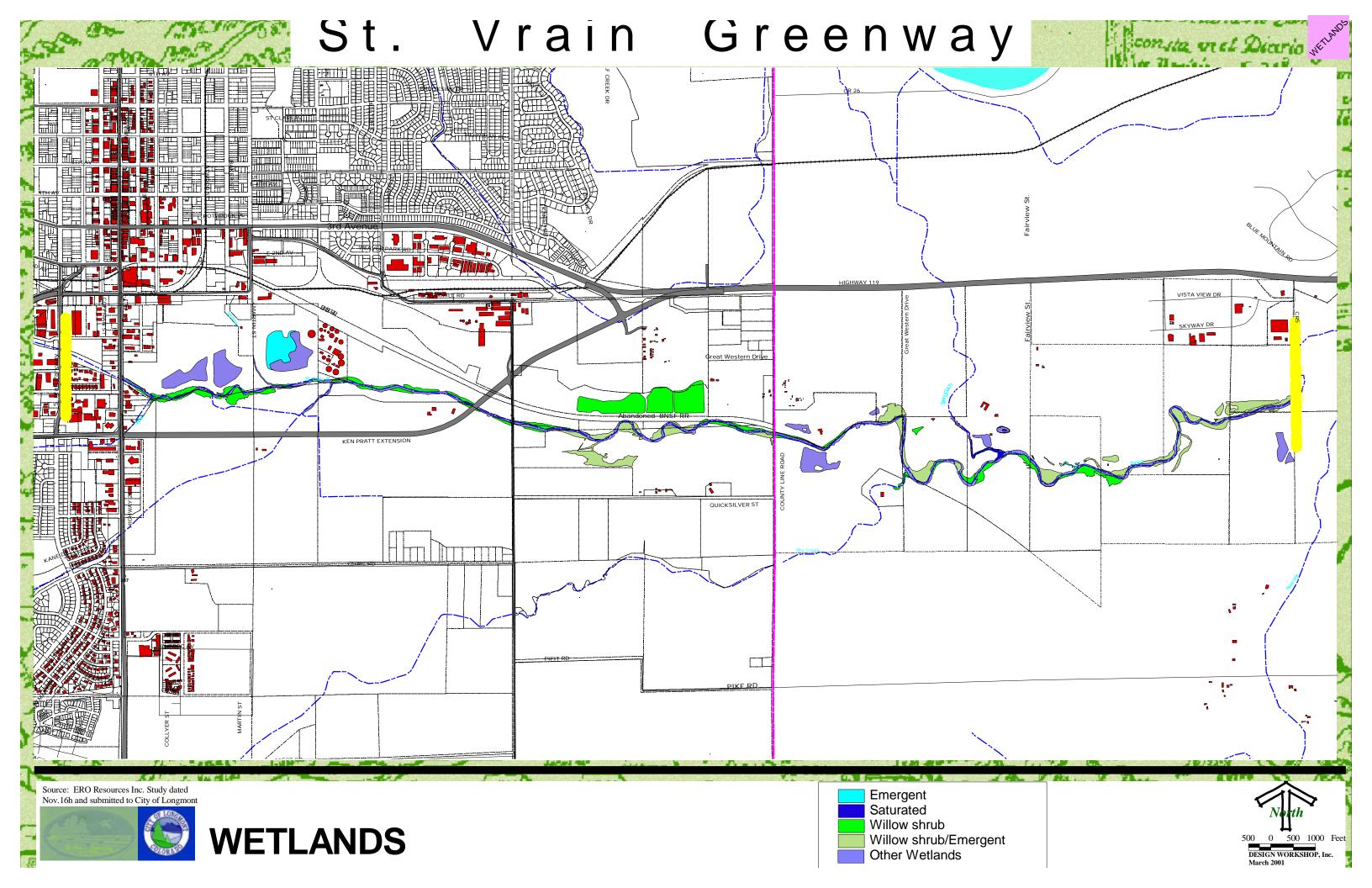


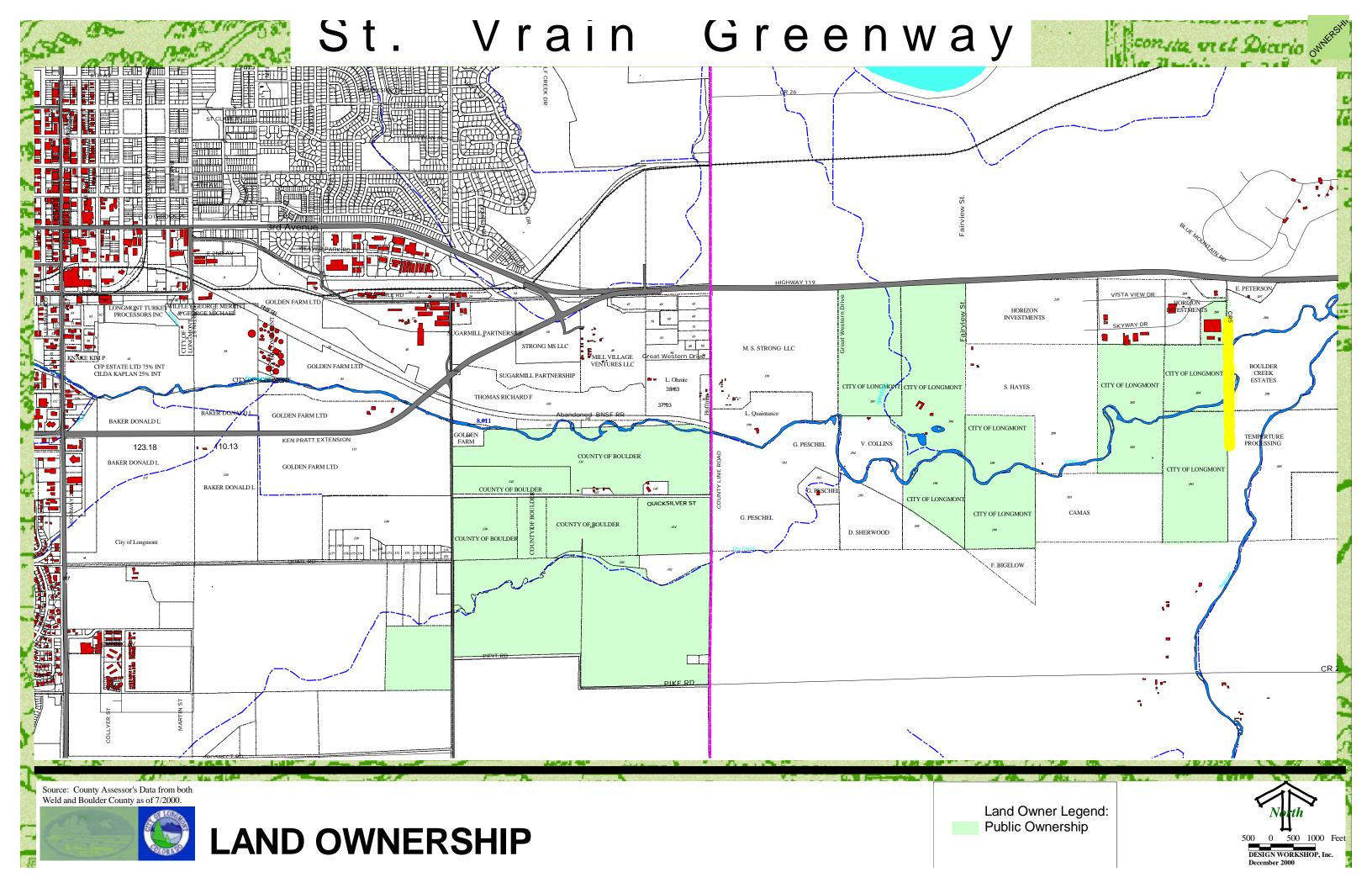
Depth to Water Table

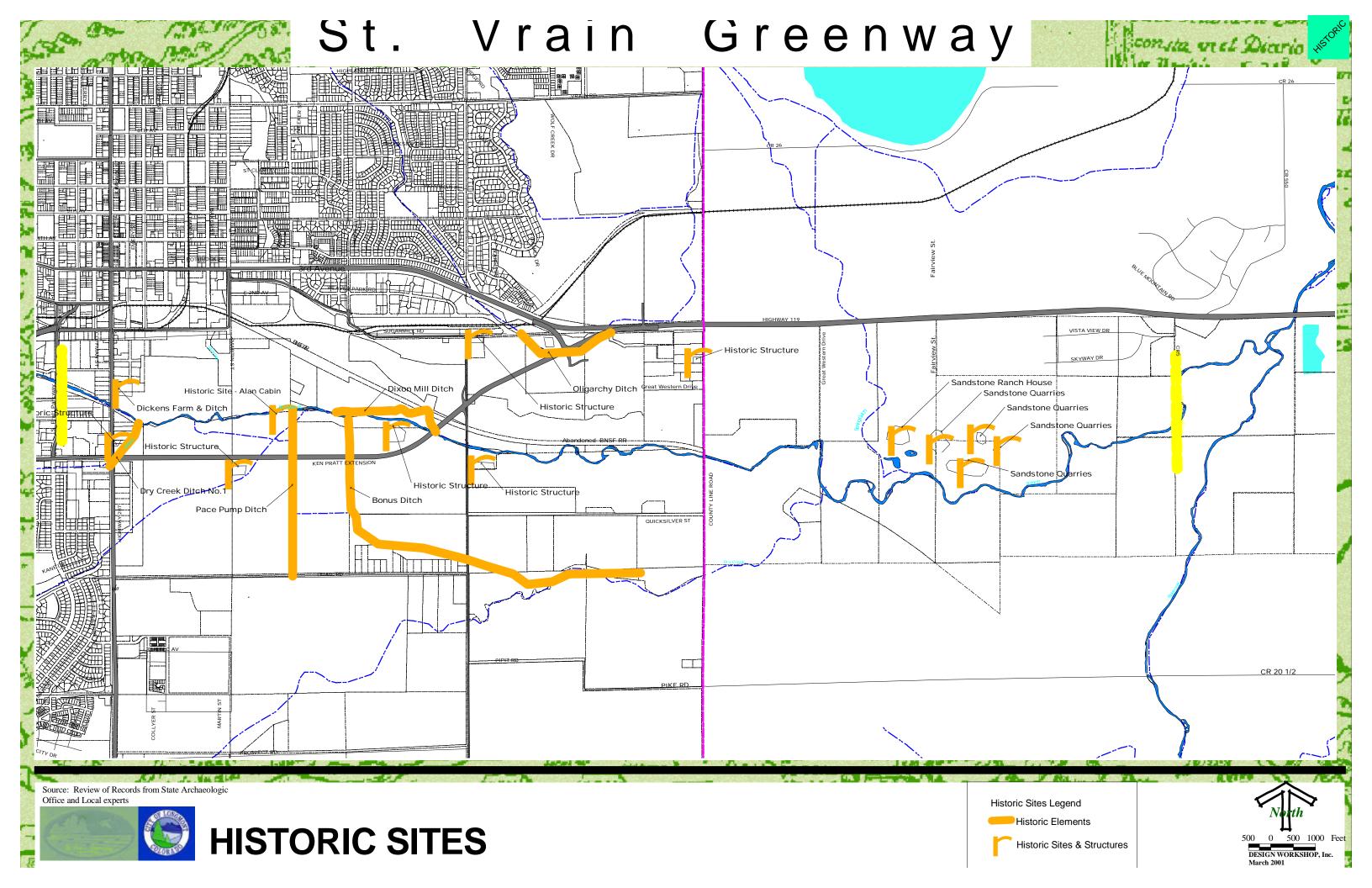


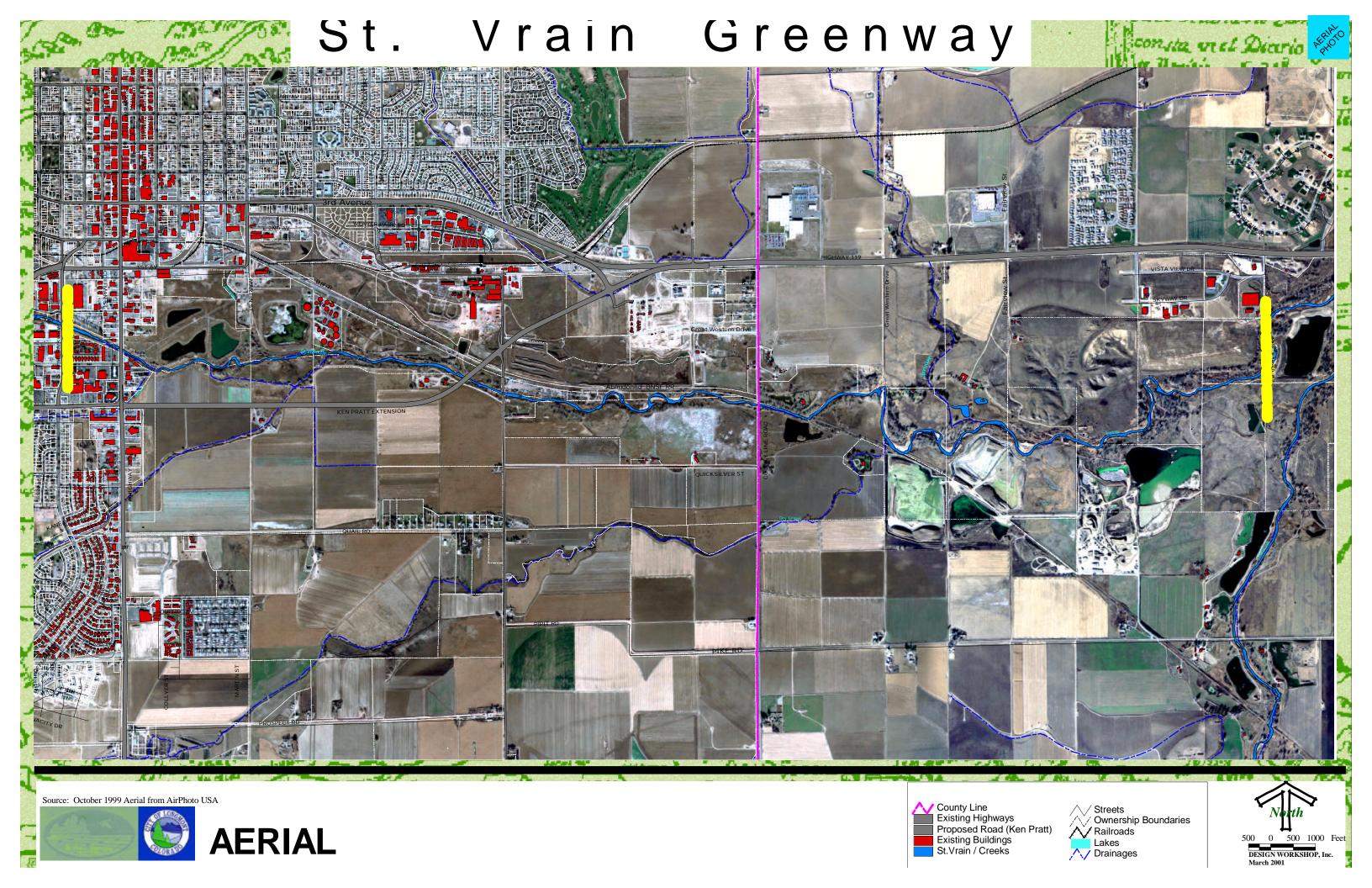
Depth to Bedrock











Appendix B

Detailed Cost Estimate

St. Vrain East Corridor Update

ST. VRAIN EAST CORRIDOR PHASE ONE COST ESTIMATE (DRAFT)

June 18. 2001

note: Phase One work includes Greenway Through Trail (10') from S. Pratt Parkway to Left Hand Creek, then south along L.H.C. to Recreation Center (8'). Includes a bridge and trail to RTD trailhead. Not all improvements for Dicken's Park - only a trailhead, Restrooms and Large Picnic shelter

ITEMS:	Units	Quantities	Unit Price	Item Total	NOTES
Pavement					
Urban and Suburban Through (A)	LF	6240	\$39.00	\$243,360.00	10' concrete & 3' jogging (assume earthwork/fine grading include in unit price)
Rural Through (B)	LF	0	\$27.00	\$0.00	5' concrete & 2 - 3' jogging & 4' Bridal (assume earthwork/fine grading include in unit price)
Preserve Through (C)	LF	0	\$15.00	\$0.00	8' Gravel & 3' Bridal jogging (assume earthwork/fine grading include in unit price)
Urban Secondary (1)	LF	0	\$15.00	\$0.00	8' gravel (assume earthwork/fine grading include in unit price)
Standard Greenway (2)	LF	6880	\$28.00		8' Concrete (assume earthwork/fine grading include in unit price)
Road Offset (bypass) (3)	LF	0	\$28.00	\$0.00	5' or 8' concrete (assume earthwork/fine grading include in unit price)
Street Bridge / Underpass					Street Bridge at Highway 287 and at S. Pratt Parkway (underpass @ S. Pratt done)
Bridge identification signs	Each	4	\$6,700.00	\$26,800.00	include fabrication and installation
Highway signs	Each	2	\$2,100.00	\$4,200.00	include fabrication and installation
Earthwork for concrete ramp (both sides)	CY	740	\$5.00	\$3,700.00	assume 10' grade different at 5% slope result 370 CY of earthwork at each side
Concrete Ramp (both sides)	SF	4000	\$6.00	\$24,000.00	assume \$5.5/sf of concrete (10' wide, 6" concrete) and \$0.5/sf of fine grade
High Water Gates	Each	2	\$2,000.00	\$4,000.00	Both sides of Underpass
warning strip + 30" thickened edge	LF	240	\$24.60	\$5,904.00	assume 120' underpass
rip rap facing	CY	120	\$39.00	\$4,680.00	assume 2' of trail require 1CY of rip rap/18"-30" boulders
Underpass lighting	Each	2	\$1,000.00	\$2,000.00	Include only lighting material/installation; does not include electrical system for lighting
Pedestrian Bridge					three bridges - at RTD, at St. Vrain Greenway W. of Water/Wastewater Plant, and at Left Hand Creek at Bonus ditch
Pedestrian Bridge	Each	3	\$90,000.00	\$270,000.00	price assumes bridge is about 140' long, include material and installation
Trail Head (ave. 20 car)					only one trailhead at Martin St.
6" full depth asphalt	SF	7100	\$1.68	\$11,928.00	
curb & gutter	LF	330	\$12.03	\$3,969.90	
striping (thermoplastic)	LF	360	\$4.92	\$1,771.20	
		 			

Furniture					
18' Shelter	Each	1	\$19,000.00	\$19,000.00	Big enough for 6 Picnic Tables
12' Shelter (picnic table/trail)	Each	0	\$16,000.00		enough for 4 Picnic Tables
Trail Shelter	Each	0	\$10,000.00	\$0.00	Shelter itself and no picnic tables; locate 1 per mile
					1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve / Maj Trail Intersections / Bridges / Ramps to
6' Bench	Each	14	\$450.00	\$6,300.00	Street
Trash Receptacle	Each	29	\$400.00	\$11,600.00	At: Benches, Trail Heads, Shelters, bridge, picnic area, underpass
Rest Rooms	Each	1	\$55,000.00	\$55,000.00	At Dickens location; assume electrical/utility included
6' Picnic Tables	Each	10	\$575.00	\$5,750.00	include picnic area and picnic tables at shelter
Signage					
Rules & Regulations signs	Each	4	\$1,500.00		include fabrication and installation
Regulatory Sign	Each	3	\$920.00	\$2,760.00	include fabrication and installation
Trail Marker Sign	Each	4	\$2,750.00	\$11,000.00	include fabrication and installation
Freestanding Park Identity Sign	Each	3	\$3,000.00	\$9,000.00	include fabrication and installation
Interpretive Sign	Each	2	\$1,500.00	\$3,000.00	include fabrication and installation
Landscape					
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	393600	\$1.55		Assume 15' disturbing areas at both sides of trail
Trees (tree/install/drip irrig)	Each	260	\$400.00		Size vary, assume 50' o.c. spacing along the trail
Shrubs (shrub/install/drip irrig)	Each	520	\$30.00	\$15,600.00	Size vary, assume 25' o.c. spacing along the trail

\$1,642,443.10

Estimated site construction cost, no utilities, no contingency	\$1,642,443.10
Estimated project contingency (7%)	\$114,971.02
Estimated project mobilization (5.6%)	\$91,976.81
Estimated project Demo (1.5%)	\$24,636.65
Estimated Storm Drainage (1.5%)	\$24,636.65
Estimated Water Control (2.2%)	\$36,133.75
Estimated Lighting and Electrical System (1.7%)	\$27,921.53
Estimated phase total, with contingency and mobilization	\$1,962,719.50

ST. VRAIN EAST CORRIDOR PHASE TWO COST ESTIMATE (DRAFT)

June 18. 2001

note: Phase Two work includes Greenway Through Trail (10') from Left Hand Creek to County Line Road; also includes secondary trail on south side near RTD, also the White Water Park Includes the south side underpass at Main Street and trail connection between the end of built Greenway and RTD trailhead

ITEMS:	Units	Quantities	Unit Price	Item Total	NOTES
Pavement					
Urban and Suburban Through (A)	LF	10320	\$39.00	\$402,480.00	10' concrete & 3' jogging (assume earthwork/fine grading include in unit price)
Rural Through (B)	LF	0	\$27.00		5' concrete & 2 - 3' jogging & 4' Bridal (assume earthwork/fine grading include in unit price)
Preserve Through (C)	LF	0	\$15.00		8' Gravel & 3' Bridal jogging (assume earthwork/fine grading include in unit price)
Urban Secondary (1)	LF	3010	\$15.00		8' gravel (assume earthwork/fine grading include in unit price)
Standard Greenway (2)	LF	1200	\$28.00	\$33,600.00	8' Concrete (assume earthwork/fine grading include in unit price)
Road Offset (bypass) (3)	LF	0	\$28.00		5' or 8' concrete (assume earthwork/fine grading include in unit price)
Street Bridge / Underpass					Two street bridges at 119th street and County Line Road
Bridge identification signs	Each	4	\$6,700.00	\$26,800.00	include fabrication and installation
Highway signs	Each	4	\$2,100.00	\$8,400.00	include fabrication and installation
Earthwork for concrete ramp*	CY	1850	\$5.00	\$9,250.00	assume 10' grade different at 5% slope result 370 CY of earthwork at each side
Concrete Ramp*	SF	10000	\$6.00	\$60,000.00	assume \$5.5/sf of concrete (10' wide, 6" concrete) and \$0.5/sf of fine grade
warning strip + 30" thickened edge*	LF	480	\$24.60	\$11,808.00	assume 120' underpass
rip rap facing*	CY	240	\$39.00	\$9,360.00	assume 2' of trail require 1CY of rip rap/18"-30" boulders
Underpass lighting*	Each	4	\$1,000.00	\$4,000.00	Include only lighting material/installation; does not include electrical system for lighting
High Water Gates*	Each	8	\$2,000.00	\$16,000.00	Both sides of Underpass
* note: Ramps for Phase Two include 2 at secondary underpa	iss on Main	Street, 2 a	t 119th Street, ar	nd 2 at Ken Prat	t extension. None at County Line Road.
Pedestrian Bridge					two bridges
Pedestrian Bridge	Each	2	\$90,000.00	\$180,000.00	price assumes bridge is about 140' long, include material and installation

Trailhead (ave. 20 car)					only one trailhead at Martin St.
6" full depth asphalt	SF	14200	\$1.68	\$23,856.00	
curb & gutter	LF	660	\$12.03	\$7,939.80	
striping (thermoplastic)	LF	720	\$4.92	\$3,542.40	
Fence at county line road	LF	1750	\$11.00	\$19,250.00	
Furniture					
18' Shelter	Each	0	\$19,000.00		Big enough for 6 Picnic Tables
12' Shelter (picnic table/trail)	Each	2	\$16,000.00		enough for 4 Picnic Tables
Trail Shelter	Each	0	\$10,000.00	\$0.00	Shelter itself and no picnic tables; locate 1 per mile
					1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve / Maj Trail Intersections / Bridges / Ramps to
6' Bench	Each	14	\$450.00	\$6,300.00	
Trash Receptacle	Each	45	\$400.00	\$18,000.00	At: Benches, Trail Heads, Shelters, bridge, picnic area, underpass
Rest Rooms	Each	2	\$55,000.00	•	At Willow Cove / Mill Meadow locations; assume electrical/utility included
6' Picnic Tables	Each	20	\$575.00	\$11,500.00	include picnic area and picnic tables at shelter
Signage					
Rules & Regulations signs	Each	1	\$1,500.00		include fabrication and installation
Regulatory Sign	Each	2	\$920.00		include fabrication and installation
Trail Marker Sign	Each	3	\$2,750.00	. ,	include fabrication and installation
Freestanding Park Identity Sign	Each	0	\$3,000.00	•	include fabrication and installation
Interpretive Sign	Each	4	\$1,500.00	\$6,000.00	include fabrication and installation
Landscape					
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	309600	\$1.55		Assume 15' disturbing areas at both sides of trail
Trees (tree/install/drip irrig)	Each	205	\$400.00		Size vary, assume 50' o.c. spacing along the trail
Shrubs (shrub/install/drip irrig)	Each	410	\$30.00	\$12,300.00	Size vary, assume 25' o.c. spacing along the trail
White Water Park			0040 000 00	40.10.000.00	
White Water Park	LS	1	\$213,000.00	\$213,000.00	

\$1,844,006.20

Estimated site construction cost, no utilities, no contingency	\$1,844,006.20
Estimated project contingency (7%)	\$129,080.43
Estimated project mobilization (5.6%)	\$103,264.35
Estimated project Demo (1.5%)	\$27,660.09
Estimated Storm Drainage (1.5%)	\$27,660.09
Estimated Water Control (2.2%)	\$40,568.14
Estimated Lighting and Electrical System (1.7%)	\$31,348.11
Estimated phase total, with contingency and mobilization	\$2,203,587.41

ST. VRAIN EAST CORRIDOR PHASE THREE COST ESTIMATE (DRAFT)

June 18. 2001

note: Phase Three work includes bypass commuter route from Mill Meadow to Sandstone Ranch and onto east project limit - excludes trail and facility within Sandstone Ranch.

The Road Offset Trail (Type 3) indicates 8' wide concrete, and the Developer is responsible for 5' of that width as part of their improvements, thus only 3 additional feet of concrete per linear foot has been calculated for Great Western Drive. This 3' would amount to \$18 for each linear foot of bypass.

ITEMS:	Units	Quantities	Unit Price	Item Total	NOTES
Pavement					
Urban and Suburban Through (A)	LF	0	\$39.00	\$0.00	10' concrete & 3' jogging (assume earthwork/fine grading include in unit price)
Rural Through (B)	LF	0	\$27.00		5' concrete & 2 - 3' jogging & 4' Bridal (assume earthwork/fine grading include in unit price)
Preserve Through (C)	LF	0	\$15.00		8' Gravel & 3' Bridal jogging (assume earthwork/fine grading include in unit price)
Urban Secondary (1)	LF	0	\$15.00	\$0.00	8' gravel (assume earthwork/fine grading include in unit price)
Standard Greenway (2)	LF	2920	\$28.00	\$81,760.00	8' Concrete (assume earthwork/fine grading include in unit price)
Road Offset (bypass) (3)	LF	9250	\$18.00	\$166,500.00	5' or 8' concrete (assume earthwork/fine grading include in unit price)
Church Builden / Hadawaaa					
Street Bridge / Underpass	ГааЬ		¢c 700 00	#0.00	is alled a fabric ation, and installation
Bridge identification signs	Each	0	\$6,700.00		include fabrication and installation
Highway signs	Each CY	0	\$2,100.00 \$5.00		include fabrication and installation
Earthwork for concrete ramp (both sides)	SF	0			assume 10' grade different at 5% slope result 370 CY of earthwork at each side
Concrete Ramp (both sides)	_	0	\$6.00		assume \$5.5/sf of concrete (10' wide, 6" concrete) and \$0.5/sf of fine grade
High Water Gates	Each	0	\$2,000.00		Both sides of Underpass
warning strip + 30" thickened edge	LF	0	\$24.60	-	assume 120' underpass
rip rap facing	CY	0	\$39.00		assume 2' of trail require 1CY of rip rap/18"-30" boulders
Underpass lighting	Each	0	\$1,000.00	\$0.00	Include only lighting material/installation; does not include electrical system for lighting
Pedestrian Bridge		1			
Pedestrian Bridge	Each	0	\$90,000.00	\$0.00	price assumes bridge is about 140' long, include material and installation
Trailhead (ave. 20 car)					only one trailhead
6" full depth asphalt	SF	7100	\$1.68	\$11,928.00	
curb & gutter	LF	330	\$12.03	\$3,969.90	
striping (thermoplastic)	LF	360	\$4.92	\$1,771.20	
		1			

ach ach ach	0 1 0	\$19,000.00 \$16,000.00 \$10,000.00	\$16,000.00	Big enough for 6 Picnic Tables enough for 4 Picnic Tables
ach ach	1	\$16,000.00	\$16,000.00	v v
ach	0	· · · · · · · · · · · · · · · · · · ·		enough for 4 Picnic Tables
	0	\$10,000.00	20 OO	
ach			Ψ0.00	Shelter itself and no picnic tables; locate 1 per mile
ach				1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve / Maj Trail Intersections / Bridges / Ramps to
	6	\$450.00	\$2,700.00	Street
ach	17	\$400.00	\$6,800.00	At: Benches, Trail Heads, Shelters, bridge, picnic area, underpass
ach	0	\$55,000.00	\$0.00	
ach	10	\$575.00	\$5,750.00	include picnic area and picnic tables at shelter
ach	1	\$1,500.00	\$1,500.00	include fabrication and installation
ach	1	\$920.00	\$920.00	include fabrication and installation
ach	1	\$2,750.00		include fabrication and installation
ach	2	\$3,000.00	\$6,000.00	include fabrication and installation
ach	1	\$1,500.00	\$1,500.00	include fabrication and installation
SF.	365100	\$1.55	\$565,905.00	Assume 15' disturbing areas at both sides of trail
ach	240			Size vary, assume 50' o.c. spacing along the trail
ach	480			Size vary, assume 25' o.c. spacing along the trail
	ach ach ach ach ach ach ach	ach 17 ach 0 ach 10 ach 10 ach 1 ach 2 ach 1 ach 2 ach 1	ach 17 \$400.00 ach 0 \$55,000.00 ach 10 \$575.00 ach 1 \$1,500.00 ach 1 \$920.00 ach 1 \$2,750.00 ach 2 \$3,000.00 ach 1 \$1,500.00 ach 2 \$3,000.00 ach 1 \$1,500.00	ach 17 \$400.00 \$6,800.00 ach 0 \$55,000.00 \$0.00 ach 10 \$575.00 \$5,750.00 ach 1 \$1,500.00 \$1,500.00 ach 1 \$920.00 \$920.00 ach 1 \$2,750.00 \$2,750.00 ach 2 \$3,000.00 \$6,000.00 ach 1 \$1,500.00 \$1,500.00 ach 1 \$1,500.00 \$1,500.00 ach 2 \$400.00 \$96,000.00

\$971,754.10

Estimated site construction cost, no utilities, no contingency	\$971,754.10
Estimated project contingency (7%)	\$68,022.79
Estimated project mobilization (5.6%)	\$54,418.23
Estimated project Demo (1.5%)	\$14,576.31
Estimated Storm Drainage (1.5%)	\$14,576.31
Estimated Water Control (2.2%)	\$21,378.59
Estimated Lighting and Electrical System (1.7%)	\$16,519.82
Estimated phase total, with contingency and mobilization	\$1,161,246.15

ST. VRAIN EAST CORRIDOR PHASE FOUR COST ESTIMATE (DRAFT)

June 18. 2001

note: Phase Four work includes Greenway Through Trail from County Line Road to Sandstone Ranch south of River, ending at Bridge to Sandstone Ranch district park; includes bridge at Sandstone Ranch and both sides of underpasses at County Line Road.

ITEMS:	Units	Quantities	Unit Price	Item Total	NOTES
Pavement					
Urban and Suburban Through (A)	LF	0	\$39.00	\$0.00	10' concrete & 3' jogging (assume earthwork/fine grading include in unit price)
Rural Through (B)	LF	6020	\$27.00		5' concrete & 2 - 3' jogging & 4' Bridal (assume earthwork/fine grading include in unit price)
Preserve Through (C)	LF	0	\$15.00	\$0.00	8' Gravel & 3' Bridal jogging (assume earthwork/fine grading include in unit price)
Urban Secondary (1)	LF	0	\$15.00		8' gravel (assume earthwork/fine grading include in unit price)
Standard Greenway (2)	LF	1720	\$28.00		8' Concrete (assume earthwork/fine grading include in unit price)
Road Offset (bypass) (3)	LF	0	\$28.00	\$0.00	5' or 8' concrete (assume earthwork/fine grading include in unit price)
Street Bridge / Underpass					
Bridge identification signs	Each	0	\$6,700.00	\$0.00	include fabrication and installation
Highway signs	Each	0	\$2,100.00		include fabrication and installation
Earthwork for concrete ramp**	CY	740	\$5.00		assume 10' grade different at 5% slope result 370 CY of earthwork at each side
Concrete Ramp**	SF	4000	\$6.00		assume \$5.5/sf of concrete (10' wide, 6" concrete) and \$0.5/sf of fine grade
High Water Gates**	Each	2	\$2,000.00		Both sides of Underpass
warning strip + 30" thickened edge**	LF	280	\$24.60	\$6,888.00	assume 120' underpass
rip rap facing**	CY	120	\$39.00		assume 2' of trail require 1CY of rip rap/18"-30" boulders
Underpass lighting**	Each	1	\$1,000.00		Include only lighting material/installation; does not include electrical system for lighting
** note: phase four work only include underpass at both side	es of count	y line road			
Pedestrian Bridge					
Pedestrian Bridge	Each	1	\$90,000.00	\$90,000.00	price assumes bridge is about 140' long, include material and installation
Trailhead (ave. 20 car)					
6" full depth asphalt	SF	0	\$1.68	\$0.00	
curb & gutter	LF	0	\$12.03	\$0.00	
striping (thermoplastic)	LF	0	\$4.92	\$0.00	

Furniture					
18' Shelter	Each	0	\$19,000.00	\$0.00	Big enough for 6 Picnic Tables
12' Shelter (picnic table/trail)	Each	0	\$16,000.00	· ·	enough for 4 Picnic Tables
Trail Shelter	Each	1	\$10,000.00		Shelter itself and no picnic tables; locate 1 per mile
					1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve / Maj Trail Intersections / Bridges / Ramps to
6' Bench	Each	4	\$450.00	\$1,800.00	Street
Trash Receptacle	Each	5	\$400.00	\$2,000.00	At: Benches, Trail Heads, Shelters, bridge, picnic area, underpass
Rest Rooms	Each	0	\$55,000.00	\$0.00	
6' Picnic Tables	Each	0	\$575.00	\$0.00	include picnic area and picnic tables at shelter
Signage					
Rules & Regulations signs	Each	2	\$1,500.00	\$3,000.00	include fabrication and installation
Regulatory Sign	Each	2	\$920.00	\$1,840.00	include fabrication and installation
Trail Marker Sign	Each	2	\$2,750.00	\$5,500.00	include fabrication and installation
Freestanding Park Identity Sign	Each	0	\$3,000.00	\$0.00	include fabrication and installation
Interpretive Sign	Each	2	\$1,500.00	\$3,000.00	include fabrication and installation
Landscape					
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	232200	\$1.55		Assume 15' disturbing areas at both sides of trail
Trees (tree/install/drip irrig)	Each	150	\$400.00	\$60,000.00	Size vary, assume 50' o.c. spacing along the trail
Shrubs (shrub/install/drip irrig)	Each	300	\$30.00	\$9,000.00	Size vary, assume 25' o.c. spacing along the trail

\$792,018.00

Estimated site construction cost, no utilities, no contingency	\$792,018.00
Estimated project contingency (7%)	\$55,441.26
Estimated project mobilization (5.6%)	\$44,353.01
Estimated project Demo (1.5%)	\$11,880.27
Estimated Storm Drainage (1.5%)	\$11,880.27
Estimated Water Control (2.2%)	\$17,424.40
Estimated Lighting and Electrical System (1.7%)	\$13,464.31
Estimated phase total, with contingency and mobilization	\$946,461.51

ST. VRAIN EAST CORRIDOR PHASE FIVE COST ESTIMATE (DRAFT)

June 18. 2001

note: Phase Five work includes Greenway Through Trail from Sandstone Spur trail to east project limits; does not include bridge over Boulder Creek (since this is beyond limits).

ITEMS:	Units	Quantities	Unit Price	Item Total	NOTES
Pavement					
Urban and Suburban Through (A)	LF	0	\$39.00	\$0.00	10' concrete & 3' jogging (assume earthwork/fine grading include in unit price)
Rural Through (B)	LF	0	\$27.00		5' concrete & 2 - 3' jogging & 4' Bridal (assume earthwork/fine grading include in unit price)
Preserve Through (C)	LF	6880	\$15.00	\$103,200.00	8' Gravel & 3' Bridal jogging (assume earthwork/fine grading include in unit price)
Urban Secondary (1)	LF	0	\$15.00		8' gravel (assume earthwork/fine grading include in unit price)
Standard Greenway (2)	LF	0	\$28.00	\$0.00	8' Concrete (assume earthwork/fine grading include in unit price)
Road Offset (bypass) (3)	LF	0	\$28.00	\$0.00	5' or 8' concrete (assume earthwork/fine grading include in unit price)
Street Bridge / Underpass					
Bridge identification signs	Each	0	\$6,700.00	\$0.00	include fabrication and installation
Highway signs	Each	0	\$2,100.00	\$0.00	include fabrication and installation
Earthwork for concrete ramp	CY	0	\$5.00	\$0.00	assume 10' grade different at 5% slope result 370 CY of earthwork at each side
Concrete Ramp	SF	0	\$6.00		assume \$5.5/sf of concrete (10' wide, 6" concrete) and \$0.5/sf of fine grade
High Water Gates	Each	0	\$2,000.00	\$0.00	Both sides of Underpass
warning strip + 30" thickened edge	LF	0	\$24.60		assume 120' underpass
rip rap facing	CY	0	\$39.00		assume 2' of trail require 1CY of rip rap/18"-30" boulders
Underpass lighting	Each	0	\$1,000.00	\$0.00	Include only lighting material/installation; does not include electrical system for lighting
Pedestrian Bridge					
Pedestrian Bridge	Each	0	\$90,000.00	\$0.00	price assumes bridge is about 140' long, include material and installation
Trailhead (ave. 20 car)					
6" full depth asphalt	SF	0	\$1.68	\$0.00	
curb & gutter	LF	0	\$12.03	\$0.00	
striping (thermoplastic)	LF	0	\$4.92	\$0.00	

Furniture					
18' Shelter	Each	0	\$19,000.00	\$0.00	Big enough for 6 Picnic Tables
12' Shelter (picnic table/trail)	Each	0	\$16,000.00		enough for 4 Picnic Tables
Trail Shelter	Each	1	\$10,000.00		Shelter itself and no picnic tables; locate 1 per mile
					1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve / Maj Trail Intersections / Bridges / Ramps to
6' Bench	Each	3	\$450.00	\$1,350.00	Street
Trash Receptacle	Each	3	\$400.00	\$1,200.00	At: Benches, Trail Heads, Shelters, bridge, picnic area, underpass
Rest Rooms	Each	0	\$55,000.00	\$0.00	
6' Picnic Tables	Each	0	\$575.00	\$0.00	include picnic area and picnic tables at shelter
Signage					
Rules & Regulations signs	Each	1	\$1,500.00	\$1,500.00	include fabrication and installation
Regulatory Sign	Each	1	\$920.00	\$920.00	include fabrication and installation
Trail Marker Sign	Each	1	\$2,750.00	\$2,750.00	include fabrication and installation
Freestanding Park Identity Sign	Each	0	\$3,000.00	\$0.00	include fabrication and installation
Interpretive Sign	Each	2	\$1,500.00	\$3,000.00	include fabrication and installation
Landscape					
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	206400	\$1.55		Assume 15' disturbing areas at both sides of trail
Trees (tree/install/drip irrig)	Each	135	\$400.00	\$54,000.00	Size vary, assume 50' o.c. spacing along the trail
Shrubs (shrub/install/drip irrig)	Each	270	\$30.00	\$8,100.00	Size vary, assume 25' o.c. spacing along the trail

\$497,840.00

Estimated site construction cost, no utilities, no contingency	\$497,840.00
Estimated project contingency (7%)	\$34,848.80
Estimated project mobilization (5.6%)	\$27,879.04
Estimated project Demo (1.5%)	\$7,467.60
Estimated Storm Drainage (1.5%)	\$7,467.60
Estimated Water Control (2.2%)	\$10,952.48
Estimated Lighting and Electrical System (1.7%)	\$8,463.28
Estimated phase total, with contingency and mobilization	\$594,918.80

ST. VRAIN EAST CORRIDOR PHASE SIX COST ESTIMATE (DRAFT)

June 18. 2001

note: Phase Six work includes elements not included in phase one to five, such as through trail and trail head at Sugar Mill trail, Park trails within Dickens Park, Willow Cove, Mill Meadow, and Confluence Overlook.

St. Vrain Greenway Master Plan Update

ITEMS:	Units	Quantities	Unit Price	Item Total	Subtotal	NOTES
Willow Cove						
8' wide Park Walkway (4" C.I.P conc.)	SF	10000	\$3.50	\$35,000.00		
12' Shelter	Each	15	\$16,000.00	\$240,000.00		enough for 4 Picnic Tables
6' Picnic Tables	Each	60	\$575.00	\$34,500.00		
Trash Receptacle	Each	60	\$400.00	\$24,000.00		At: Picnic Shelter
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	423800	\$1.55	\$656,890.00		for entire park
Trees (tree/install/drip irrig)	Each	170	\$400.00	\$68,000.00		Assume planting 4 trees / per 10,000 sf of landscape areas
Shrubs (shrub/install/drip irrig)	Each	255	\$30.00	\$7,650.00		Assume planting 6 shrubs / per 10,000 sf of landscape areas

\$1,066,040.00

Estimated site construction cost, no utilities, no contingency

Estimated project contingency (7%)

Estimated project mobilization (5.6%)

Estimated project Demo (1.5%)

Estimated Storm Drainage (1.5%)

Estimated project total, with contingency and mobilization

\$1,066,040.00 \$74,622.80 \$59,698.24

\$15,990.60

\$15,990.60

\$1,232,342.24

ITEMS:	Units	Quantities	Unit Price	Item Total	Subtotal	NOTES
Mill Meadow						
12' Shelter	Each	2	\$16,000.00	\$32,000.00		enough for 4 Picnic Tables
6' Picnic Tables	Each	8	\$575.00	\$4,600.00		
Trash Receptacle	Each	8	\$400.00	\$3,200.00		At: Picnic Shelter
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	544210	\$1.55	\$843,525.50		for entire park
Trees (tree/install/drip irrig)	Each	220	\$400.00	\$88,000.00		Assume planting 4 trees / per 10,000 sf of landscape areas
Shrubs (shrub/install/drip irrig)	Each	325	\$30.00	\$9,750.00	-	Assume planting 6 shrubs / per 10,000 sf of landscape areas

\$981,075.50

Estimated site construction cost, no utilities, no contingency	\$981,075.50
Estimated project contingency (7%)	\$68,675.29
Estimated project mobilization (5.6%)	\$54,940.23
Estimated project Demo (1.5%)	\$14,716.13
Estimated Storm Drainage (1.5%)	\$14,716.13

Estimated project total, with contingency and mobilization

\$1,134,123.28

ITEMS:	Units	Quantities	Unit Price	Item Total	Subtotal	NOTES
Confluence Overlook						
12' Shelter	Each	1	\$16,000.00	\$16,000.00		enough for 4 Picnic Tables
6' Picnic Tables	Each	4	\$575.00	\$2,300.00		
Trash Receptacle	Each	4	\$400.00	\$1,600.00		At: Picnic Shelter

\$19,900.00

Estimated site construction cost, no utilities, no contingency

Estimated project contingency (7%)

Estimated project mobilization (5.6%)

Estimated project Demo (1.5%)

Estimated Storm Drainage (1.5%)

Estimated project total, with contingency and mobilization

\$19,900.00 \$1,393.00 \$1,114.40

\$298.50 \$298.50

\$23,004.40

ITEMS:	Units	Quantities	Unit Price	Item Total	Subtotal	NOTES
Sugar Mill Trail						
Standard Greenway Trail (2)	LF	1720	\$28.00	\$48,160.00		8' Concrete (assume earthwork/fine grading include in unit price)
						1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve
6' Bench	Each	1	\$450.00	\$450.00		/ Maj Trail Intersections / Bridges / Ramps to Street
Trash Receptacle	Each	1	\$400.00	\$400.00		At: Benches, Trail Heads
Rules & Regulations signs	Each	1	\$1,500.00	\$1,500.00		include fabrication and installation
Interpretive Sign	Each	1	\$1,500.00	\$1,500.00		include fabrication and installation
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	51600	\$1.55	\$79,980.00		Assume 15' disturbing areas at both sides of trail
Trees (tree/install/drip irrig)	Each	34	\$400.00	\$13,600.00		Size vary, assume 50' o.c. spacing along the trail
Shrubs (shrub/install/drip irrig)	Each	68	\$30.00	\$2,040.00		Size vary, assume 25' o.c. spacing along the trail

\$147,630.00

Estimated site construction cost, no utilities, no contingency

Estimated project contingency (7%)

Estimated project mobilization (5.6%)

Estimated project Demo (1.5%)

Estimated Storm Drainage (1.5%)

Estimated project total, with contingency and mobilization

\$147,630.00

\$10,334.10 \$8,267.28

\$2,214.45

\$2,214.45

\$170,660.28

ITEMS:	Units	Quantities	Unit Price	Item Total	Subtotal	NOTES
Dickens Park						
Standard Greenway Trail (2)	LF	9040	\$28.00	\$253,120.00		8' Concrete (assume earthwork/fine grading include in unit price)
						1/4 Urb&SubUrb/ every 3/8 Rural/ 1/2 Preserve
6' Bench	Each	3	\$450.00	\$1,350.00		/ Maj Trail Intersections / Bridges / Ramps to Street
Trash Receptacle	Each	80	\$400.00	\$32,000.00		At: Benches, Trail Heads
12' Shelter	Each	20	\$16,000.00	\$320,000.00		enough for 4 Picnic Tables
6' Picnic Tables	Each	80	\$575.00	\$46,000.00		At: Benches, Trail Heads
Landscape Areas (soil prep/fine grading/irrig/native seed)	SF	2700720	\$1.55	\$4,186,116.00		for entire park
Trees (tree/install/drip irrig)	Each	1080	\$400.00	\$432,000.00		Size vary, assume 50' o.c. spacing along the trail
Shrubs (shrub/install/drip irrig)	Each	1620	\$30.00	\$48,600.00		Size vary, assume 25' o.c. spacing along the trail

\$5,319,186.00

Estimated site construction cost, no utilities, no contingency

Estimated project contingency (7%)

Estimated project mobilization (5.6%)

Estimated project Demo (1.5%)

Estimated Storm Drainage (1.5%)

Estimated project total, with contingency and mobilization

\$5,319,186.00
\$372,343.02
\$297,874.42
\$79,787.79
\$79,787.79

Estimated Project total, with contingency and mobilization

\$6,148,979.02

Estimated Phase Six project total, with contingency and mobilization

\$8,709,109.21

1,962,719.50
2,203,587.41
1,161,246.15
\$946,461.51
\$594,918.80
8,709,109.21

All Phases \$15,578,042.59