

PLANNING LEVEL COST ESTIMATE

Location: NW 15th Street from Powerline Road to N Dixie Highway (MTP ID: BM061)

ROADWAY IMPROVEMENTS

Item Number	Pay Item Number	Description	Unit	Unit Cost	Quantity	Total
1	0110 1 1	CLEARING & GRUBBING	AC	\$ 109,081.30	11	\$ 1,200,000.00
2	0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	\$ 39.95	5470	\$ 219,000.00
2	0120 1	REGULAR EXCAVATION	CY	\$ 18.49	2700	\$ 50,000.00
4	0160 4	TYPE B STABILIZATION	SY	\$ 3.03	8000	\$ 25,000.00
5	0285706	OPTIONAL BASE, BASE GROUP 06	SY	\$ 23.16	8000	\$ 186,000.00
6	0327 70 5	MILLING EXISTING ASPHALT PAVEMENT, 2" AVG DEPTH	SY	\$ 2.83	13600	\$ 39,000.00
7	0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	\$ 149.45	1240	\$ 186,000.00
8	0337 7 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	\$ 180.65	690	\$ 125,000.00
9	0443 70 4	FRENCH DRAIN, 24"	LF	\$ 343.07	900	\$ 309,000.00
10	0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	\$ 48.37	2800	\$ 136,000.00
11	0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	\$ 119.81	13600	\$ 1,630,000.00
12	0527 2	DETECTABLE WARNINGS	SF	\$ 46.45	980	\$ 46,000.00
13	0570 1 3	PERFORMANCE TURF, SOD AND SOIL- SHOULDER TREATMENT INDEX 570-010	SY	\$ 7.10	11400	\$ 81,000.00
14	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	\$ 16.61	5380	\$ 90,000.00
15	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	\$ 45.44	420	\$ 20,000.00
16	0654 2 11	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS	\$ 15,450.00	2	\$ 31,000.00
17	0700 3101	SIGN PANEL, FURNISH & INSTALL GROUND MOUNT, UP TO 12 SF	EA	\$ 277.76	50	\$ 14,000.00
18	0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	\$ 446.94	28	\$ 13,000.00
19	0711 14123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	\$ 8.65	12320	\$ 107,000.00
20	0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	\$ 0.65	340	\$ 1,000.00
21	0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	\$ 17.84	4058	\$ 73,000.00
22	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	\$ 5,658.61	0.5	\$ 3,000.00
23	0714 10	GREEN-COLORED PAVEMENT MARKINGS, BIKE LANE	SF	\$ 8.67	84	\$ 1,000.00
24	0715 11216	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY, PENDANT/TEARDROP	EA	\$ 4,008.07	40	\$ 161,000.00
25	0715 61111	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 30' MOUNTING HEIGHT, 8' ARM LENGTH	EA	\$ 11,357.34	27	\$ 307,000.00
26	0715500 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	\$ 819.12	27	\$ 23,000.00
Subtotal						\$ 5,076,000.00
Improvements east of NW 2nd Avenue						
27	0110 1 1	CLEARING & GRUBBING	AC	\$ 109,081.30	1	\$ 110,000.00
28	0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	\$ 39.95	1000	\$ 40,000.00
29	0327 70 5	MILLING EXISTING ASPHALT PAVEMENT, 2" AVG DEPTH	SY	\$ 2.83	1100	\$ 4,000.00
30	0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	\$ 149.45	59	\$ 9,000.00
31	0337 7 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	\$ 180.65	59	\$ 11,000.00
32	0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	\$ 48.37	500	\$ 25,000.00
33	0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	\$ 119.81	250	\$ 30,000.00
34	0527 2	DETECTABLE WARNINGS	SF	\$ 46.45	20	\$ 1,000.00
35	0570 1 3	PERFORMANCE TURF, SOD AND SOIL- SHOULDER TREATMENT INDEX 570-010	SY	\$ 7.10	120	\$ 1,000.00
36	0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	\$ 446.94	7	\$ 4,000.00
37	0711 14123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	\$ 8.65	200	\$ 2,000.00
38	0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	\$ 17.84	200	\$ 4,000.00
39	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	\$ 5,658.61	0.15	\$ 1,000.00
Subtotal						\$ 241,000.00
40	Mobilization (6%)		LS	\$ 319,020.00	1	\$ 320,000.00
41	Temporary Traffic Control (6%)		LS	\$ 319,020.00	1	\$ 320,000.00
42	Stormwater Sewer Prevention/Protection (2%)		LS	\$ 106,340.00	1	\$ 107,000.00
Subtotal						\$ 6,064,000.00
Inflation (4% per year, compounded) Buildout 2034			LS	\$ 2,566,962.83	1	\$ 2,567,000.00
Subtotal						\$ 8,631,000.00
Design and Engineering (15%)			LS	\$ 1,294,650.00	1	\$ 1,294,700.00
Construction Engineering and Inspection Activities (15%)			LS	\$ 1,294,650.00	1	\$ 1,294,700.00
TOTAL						\$ 11,220,400.00

FECR IMPROVEMENTS

Item Number	Pay Item Number	Description	Unit	Unit Cost	Quantity	Total	
1	0110 1 1	CLEARING & GRUBBING	AC	\$ 109,081.30	0.25	\$ 28,000.00	
2	0110 3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	SF	\$ 164.01	500	\$ 83,000.00	
3	0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	\$ 39.95	45	\$ 2,000.00	
4	0327 70 5	MILLING EXISTING ASPHALT PAVEMENT, 2" AVG DEPTH	SY	\$ 2.83	120	\$ 1,000.00	
5	0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	\$ 149.45	16	\$ 3,000.00	
6	0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	\$ 180.65	15	\$ 3,000.00	
7	0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	\$ 119.81	290	\$ 35,000.00	
8	0527 2	DETECTABLE WARNINGS	SF	\$ 46.45	40	\$ 2,000.00	
9	0570 1 3	PERFORMANCE TURF, SOD AND SOIL- SHOULDER TREATMENT INDEX 570-010	SY	\$ 7.10	200	\$ 2,000.00	
10	0700 13 10	RETROREFLECTIVE SIGN STRIP- BACK OF RAIL ROAD CROSSBUCK SIGN BLADES	EA	\$ 86.00	2	\$ 1,000.00	
11	0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	\$ 17.84	24	\$ 1,000.00	
12	0711 14193	THERMOPLASTIC, PREFORMED, 12" WHITE ON ASPHALT PAVEMENT, RAILROAD DYNAMIC ENVELOPE	LF	\$ 9.16	200	\$ 2,000.00	
13	0508 2 1	MOVABLE BRIDGE GATE, F&I	AS	\$ 70,000.00	2	\$ 140,000.00	
14	0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	\$ 1,721.88	2	\$ 4,000.00	
15	0663 1122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA	\$ 10,769.77	1	\$ 11,000.00	
16	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	\$ 5,568.83	1	\$ 6,000.00	
17	0649 21 1	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA	\$ 66,102.50	2	\$ 133,000.00	
18	0825136110	MASS TRANSIT-TRACK, INSTALL, 136 LB/YD, CONTINUOUS WELDED RAIL, TIMBER TIE, STANDARD RAIL HEAD	LF	\$ 250.00	80	\$ 20,000.00	
19	Mobilization (6%)		LS	\$ 28,620.00	1	\$ 29,000.00	
20	Temporary Traffic Control (6%)		LS	\$ 28,620.00	1	\$ 29,000.00	
21	Stormwater Sewer Prevention/Protection (2%)		LS	\$ 9,540.00	1	\$ 10,000.00	
						Subtotal	\$ 545,000.00
Inflation (4% per year, compounded) Buildout 2034			LS	\$ 230,704.94	1	\$ 231,000.00	
						Subtotal	\$ 776,000.00
Design and Engineering (35%)			LS	\$ 271,600.00	1	\$ 271,600.00	
Construction Engineering and Inspection Activities (15%)			LS	\$ 116,400.00	1	\$ 116,400.00	
						TOTAL	\$ 1,164,000.00

Cost Summary	
Roadway Construction	\$ 8,631,000.00
Roadway Design	\$ 1,294,700.00
Roadway CEI	\$ 1,294,700.00
Rail Improvement Construction	\$ 776,000.00
Rail Improvement Design	\$ 271,600.00
Rail Improvement CEI	\$ 116,400.00
TOTAL	\$ 12,384,400.00

NW 15TH ST ROADWAY QUANTITIES (Including Sharrows and N Dixie Highway Improvements)

Regular Excavation (1 foot depth)	Sidewalks	1700 sy on north side from Powerline Rd to NW 17th Ave 800 sy on north side from NW 17th Ave to Andrews Ave 500 sy on north side from SFRC RR to FECR	2700	CY
	Bikeway/Road widening	1200 sy from 1-Track RR to NW 7th Way 1400 sy from NW 7th Way to NW 6th Ave 1800 sy from NW 6th Ave to NW 3rd Ave		
	Intersection	150 sy at the intersection with NW 3rd Ave 300 sy at the intersection with NW 7th Way 150 sy at the intersection with NW 6th Ave		
Stabilization	Sidewalks	1700 sy on north side from Powerline Rd to NW 17th Ave 800 sy on north side from NW 17th Ave to Andrews Ave 500 sy on north side from SFRC to FECR	8000	SY
	Bikeway/Road widening	1200 sy from 1-Track RR to NW 7th Way 1400 sy from NW 7th Way to NW 6th Ave 1800 sy from NW 6th Ave to NW 3rd Ave		
	Intersection	150 sy at the intersection with NW 3rd Ave 300 sy at the intersection with NW 7th Way 150 sy at the intersection with NW 6th Ave		
Optional Base	Sidewalks	1700 sy on north side from Powerline Rd to NW 17th Ave 800 sy on north side from NW 17th Ave to Andrews Ave 500 sy on north side from SFRC to FECR	8000	SY
	Bikeway/Road widening	1200 sy from 1-Track RR to NW 7th Way 1400 sy from NW 7th Way to NW 6th Ave 1800 sy from NW 6th Ave to NW 3rd Ave		
	Intersection	150 sy at the intersection with NW 3rd Ave 300 sy at the intersection with NW 7th Way 150 sy at the intersection with NW 6th Ave		
Milling	Driveways, approx 150 sy per driveway	4500 sy for 29 driveways	13600	SY
	Intersections	130 sy at the intersection with Powerline Rd 5500 sy at the intersection with N Andrews Ave 580 sy at the intersection with NW 7th Way 800 sy at the intersection with NW 6th Ave 1900 sy at the intersection with NW 3rd Ave 1100 sy at the intersection with N Dixie Hwy		
	Raised crosswalk Sharrows, 40 sy per pair	60 sy E of NW 18th Dr 80 sy		
Removal Existing Concrete	Sidewalks	1720 sy from Powerline Rd to Andrews Ave (south side only) 850 sy from Andrews Ave to 3-Track RR 220 sy from SFRC to FECR (south side only) 1600 sy from FECR to NW 7th Way	5470	SY
	Intersections	275 sy at the intersection with Andrews Ave 570 sy east of the intersection with Andrews Ave 150 sy at the intersection with NW 7th Way 150 sy at the intersection with NW 6th Ave 150 sy at the intersection with NW 3rd Ave 1000 sy at the intersection with N Dixie Hwy		
Concrete	10 foot sidewalk	4000 sy from Powerline to NW 17th Ave 1900 sy from NW 17th to Andrews Ave 6700 sy from Andrews Ave to NW 7th Way	13600	SY
	Intersections	40 sy at the intersection with Powerline Rd 300 sy at the intersection with Andrews Ave 200 sy at the intersection with NW 7th Way 200 sy at the intersection with NW 6th Ave 200 sy at the intersection with NW 3rd Ave 250 sy at the intersection with N Dixie Hwy 46 SY for 23 east of Andrews Avenue 4 SY for 2 west of Andrews Avenue		
Asphalt	Driveways, approx 1350 sf per driveway, assume 0.5 in asphalt, 330 sf ~ 1 ton	120 tons for 39,000 sf total	1240	TN
	Raised Intersections, assume 6 in asphalt, 30 sf ~ 1 ton	175 tons for 5220 sf at intersection with NW 7th Way 240 tons for 7200 sf at intersection with NW 6th Ave 190 tons for 5700 sf at intersection with NW 3rd Ave		
	Raised crosswalk, assume 6 in asphalt, 30 sf ~ 1 ton	18 tons for 540 sf E of NW 18th Dr		
	Bikeway/road widening, assume 4 in asphalt, 40 sf ~ 1 ton	30 tons for 1200 sf from NW 7th Way to NW 6th Ave 40 tons for 1600 sf from NW 6th Ave to W of NW 3rd Ave		
	Resurfacing road, assume 1 in asphalt, 165 sf ~ 1 ton	7 tons for 1200 sf at intersection with Powerline Rd 300 tons for 49500 sf at intersection with Andrews Ave 55 tons for 9000 sf at intersection with Dixie Hwy		
	Sharrows, assume 1 in asphalt, 165 sf ~ 1 ton	4 tons for 750 sf		

Friction Course	Driveways, approx 1350 sf per driveway, 1 in depth	240 tons for 39,000 sf total	690	TN
	Raised Intersections, 1 in depth	30 tons for 5220 sf at intersection with NW 7th Way 40 tons for 7200 sf at intersection with NW 6th Ave 35 tons for 5700 sf at intersection with NW 3rd Ave		
	Raised crosswalk, 1 in depth	3 tons for 540 sf E of NW 18th Dr 7 tons for 1200 sf from NW 7th Way to NW 6th Ave		
	Bikeway/road widening, 1 in depth	10 tons for 1600 sf from NW 6th Ave to W of NW 3rd Ave 12 tons for 2000 sf from NW 17th Way to raised crossing at elementary school 7 tons for 1200 sf at intersection with Powerline Rd		
	Resurfacing road, 1 in depth	300 tons for 49500 sf at intersection with Andrews Ave		
	Sharrows, assume 1 in asphalt, 1 in depth	55 tons for 9000 sf at intersection with Dixie Hwy 4 tons for 750 sf		
Curb and Gutter	Intersection radii	300 lf at intersection with Andrews Ave 200 ft at intersection with NW 7th Way 200 ft at intersection with NW 6th Ave 200 ft at intersection with NW 3rd Ave	2800	LF
	Medians	260 lf on western leg at NW 3rd Ave 100 lf on eastern leg at NW 3rd Ave		
	Along sidewalks	200 lf along segment in front of elementary school		
	Along roadway	1300 lf on both sides of road from Andrews Ave to SFRC		
	Sidewalk and median	500 lf at intersection with Dixie Highway		
Sod	Median	230 sy at intersection with NW 3rd Ave 120 sy at intersection with N Dixie Hwy 1700 sy from Powerline Rd to NW 18th Dr 1200 sy from NW 18th Dr to N Andrews Ave	11400	SY
	Segment, 2 ft on either side of sidewalk, plus fill to edge of road	2100 sy from N Andrews Ave to SFRC 4000 sy from SFRC Crossing to NW 7th Way 900 sy from NW 7th Way to NW 6th Ave 1200 sy from NW 6th Ave to NW 3rd Ave		
Conduit Open Trench	Only where lighting fixtures do not already exist and where directional bores are not needed	2600 ft from Powerline Rd to Andrews Ave on north side of corridor 400 ft from SFRC to FECC 2800 ft from I-95 to NW 3rd Ave on south side of corridor	5380	LF
Conduit Directional Bore	Only where lighting fixtures do not already exist	400 ft under 14 driveways (approx 30 ft in width each)	420	LF
Replace Existing Luminaire		for approx number of existing lights	40	EA
Light Pole		for approx number of new lights every 200 ft	27	EA
Pole Cable Distribution	One for each new light pole		27	EA
Detectable Warnings	At every driveway and crossing	1000 sf for 50 one-way crossings at 20 sf per crossing	1000	SF
Green Bike Markings	Crosswalks with green skip pattern	84 sy for 6 crosswalks at 14 sy a crosswalk	84	SY
White Solid Lines	Crosswalk	Intersection with Powerline Rd	100	100
		Intersection with NW 19th Ave	100	100
		Intersection with NW 17th Ave	100	100
		Intersection with NW 18th Drive	100	100
		Intersection east of NW 18th	100	100
		Crossing at elementary school	200	200
		Intersection west of Andrews Ave	70	70
		Intersection with Andrews Ave	800	800
		Intersection with NW 14th Ave	100	100
		Intersection with NW 13th Ave	100	100
		Intersection west of I-95	100	100
		Intersection with NW 7th Ter	200	200
		Intersection with NW 7th Way	400	400
		Intersection with NW 6th Ave	400	400
		Intersection with NW 3rd Ave	400	400
		Intersection with N Dixie Hwy	200	200
	Stop bars	688 lf for 57 bars at 12 ft per bar Between NW 17th Ave and the elementary school	688	950
Bike Lane	Between NW 7th Way and NW 6th Ave Between NW 6th Ave and NW 3rd Ave		3500 4500	
		Total	4058	12320
White Chevrons	Shoulder chevrons	40 lf between NW 17th Ave and the elementary school 140 lf between NW 7th Way and NW 6th Ave 160 lf between NW 6th Ave and NW 3rd Ave	340	LF
Yellow Solid Lines	Centerlines on road	0.25 miles at intersection with Andrews Ave 0.25 miles at intersection with NW 3rd Ave 0.15 miles at intersection with N Dixie Hwy	0.5	GM
Paint Marking Symbols	Along corridor	7 sharrows 13 bike lane markings 15 raised pavement markings	28	EA

NW 15TH ST RAIL QUANTITIES

Remove Existing Structure		500 sf at FECR	500	SF
Removal of Existing Concrete		45 sy at FECR	45	SY
Milling		120 sy at FECR	120	SY
Concrete		150 sy at FECR (multiplied by 3 to get OMNI Concrete Pad Thickness) 140 sy at FECR	290	SY
Tracks		80 feet at FECR	80	LF
Detectable Warnings		40 sf at FECR	40	SF
Asphalt		13 tons at FECR	13	TN
Overhead Signal	FECR	2 total, one for either direction of traffic	2	EA
Gate Arms	FECR	2 total, one for either direction of traffic	2	EA
Dynamic Envelope		200 lf at FECR	200	LF
Paint		24 lf at FECR	24	LF