

PLANNING DOCUMENT

FOR

SIDEWALK IMPROVEMENTS

PASS CHRISTIAN, MISSISSIPPI

PREPARED FOR



200 WEST SCENIC DRIVE
PASS CHRISTIAN, MS. 39571
228-452-3311

DECEMBER, 2023



**BROWN, MITCHELL
& ALEXANDER, INC.**

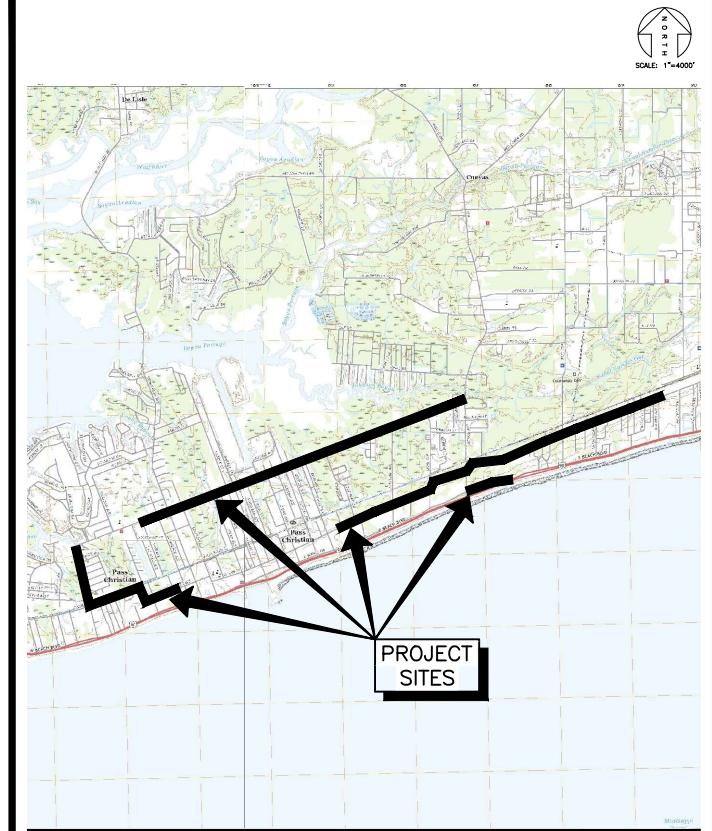
CONSULTING ENGINEERS

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Gulfport, MS 39507
(228)864-7612

131 Rue Magnolia
Biloxi, MS 39530
(228)436-7612

3221 Market Street
Pascagoula, MS 39567
(228)864-7612

LOCATION MAP



SHEET INDEX

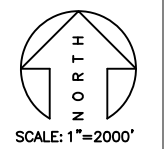
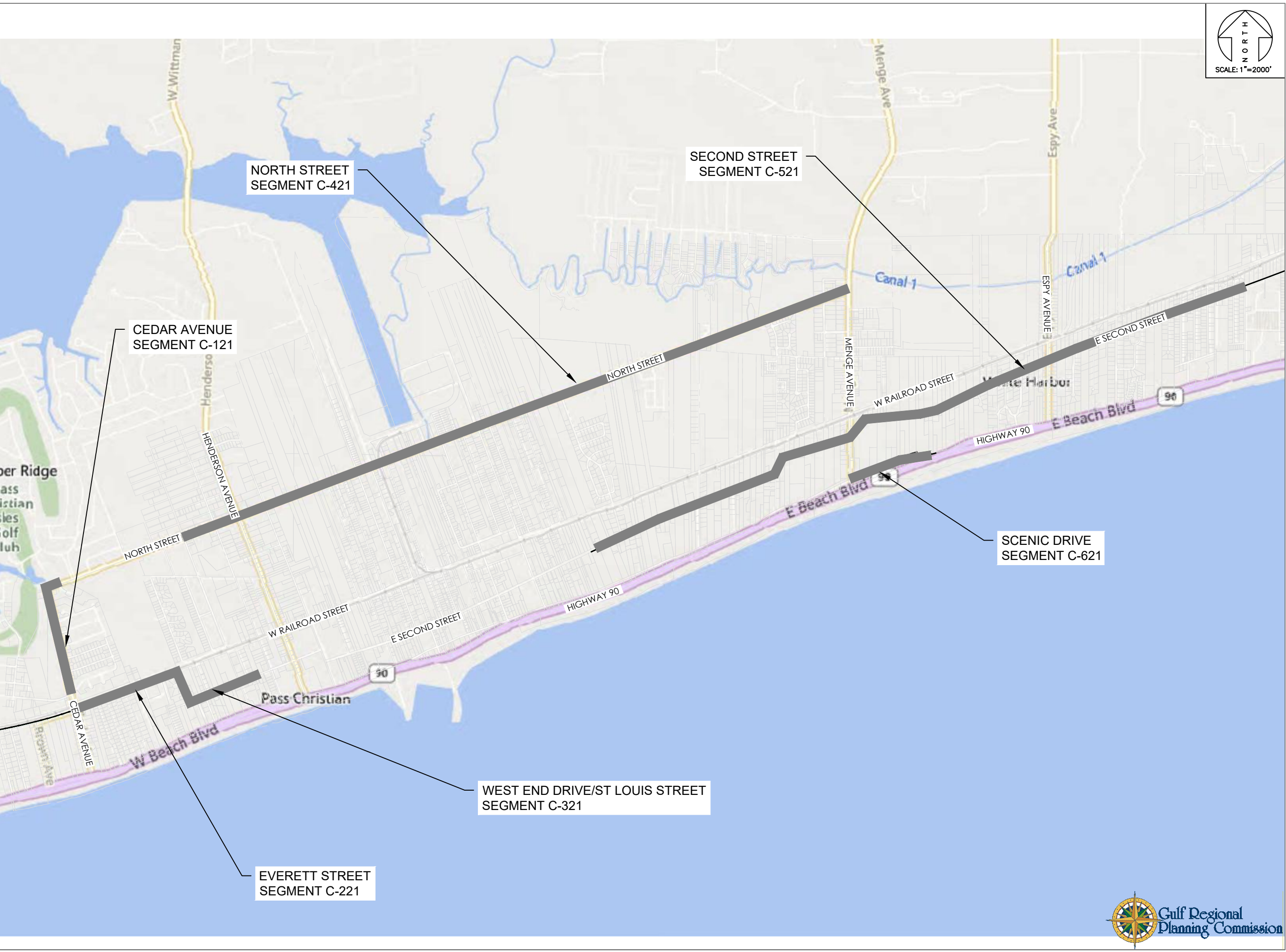
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BMA No. 23-3859

SET NO. _____

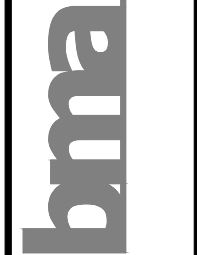


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SEAL

REV	DATE	BY

SIDEWALK IMPROVEMENTS
 CITY OF PASS CHRISTIAN
 PASS CHRISTIAN, MISSISSIPPI

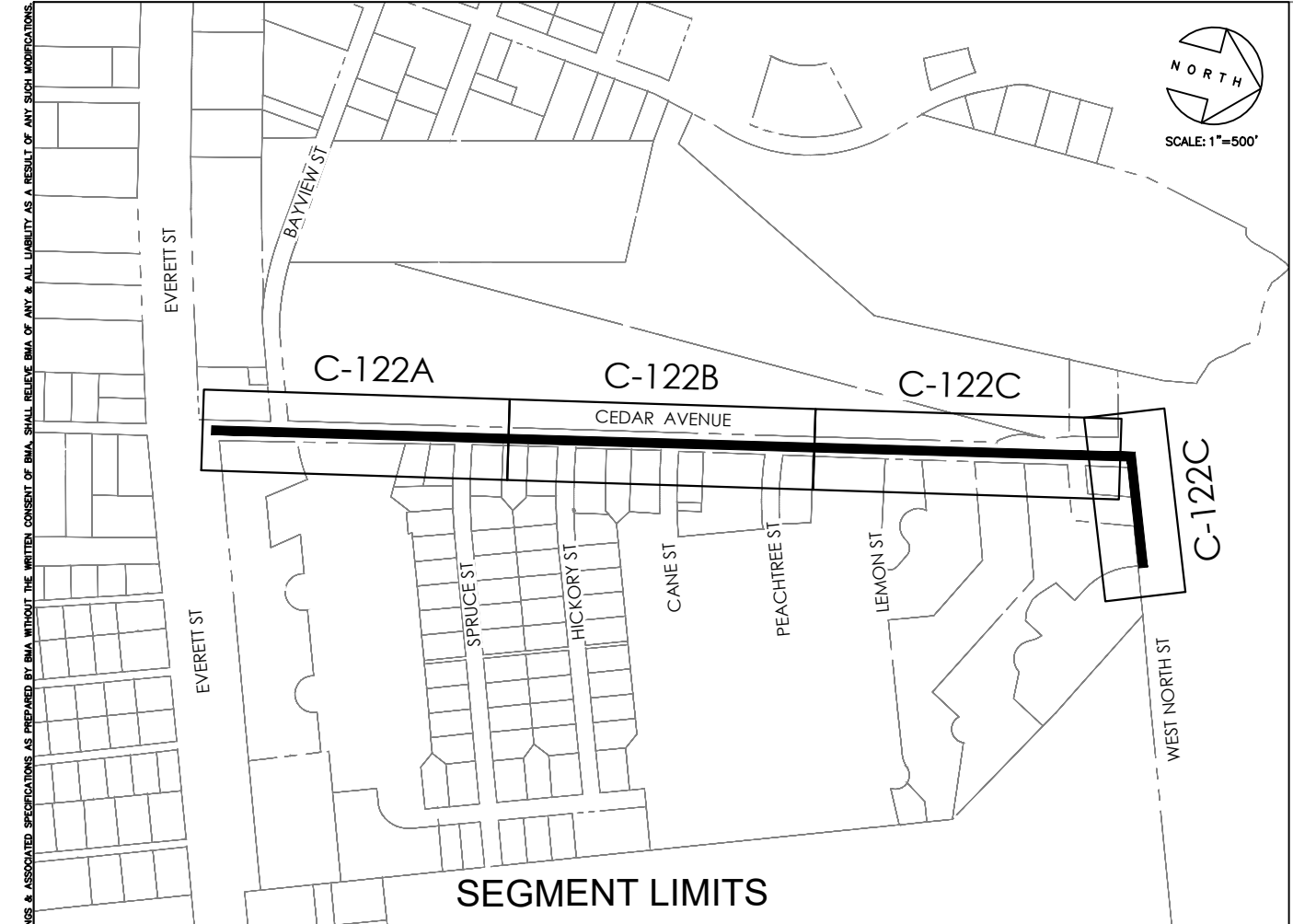
OVERALL PROJECT LAYOUT PLAN

CAD	NLG
ENG	BJS
DATE	12/20/2023
SCALE	SHOWN
BMA#	3859
FILE	:\3859\CAD\DWG\3859 PLANSET

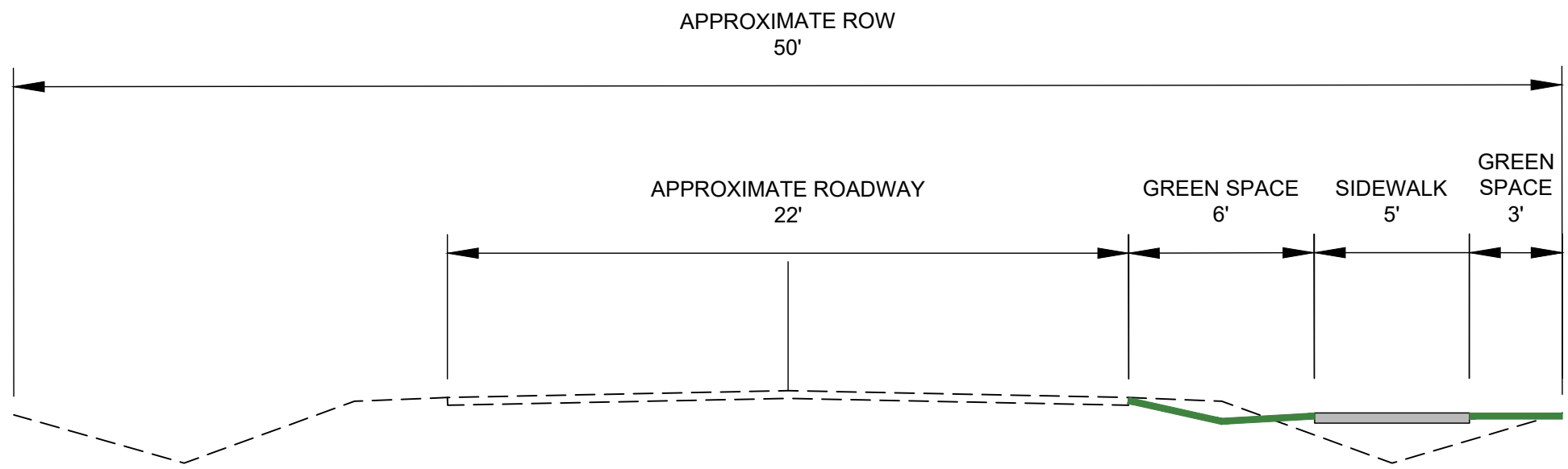
SHEET



C-101



EXISTING CONDITION (TYPICAL)



PROPOSED TYPICAL SECTION (TYPICAL)



SEAL

REV	DATE	BY

SIDEWALK IMPROVEMENTS
 CITY OF PASS CHRISTIAN
 PASS CHRISTIAN, MISSISSIPPI
 CEDAR AVENUE

CAD NLG
 ENG BJS
 DATE 12/20/2023
 SCALE SHOWN
 BMA# 3859
 FILE: \3859\CAD\DWG\3859 PLANSET

SHEET
C-121



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s:\3859 pass christian sidewalk\01-drafting\01-deg\01-production\3859 planset.dwg-12/21/2023
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ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

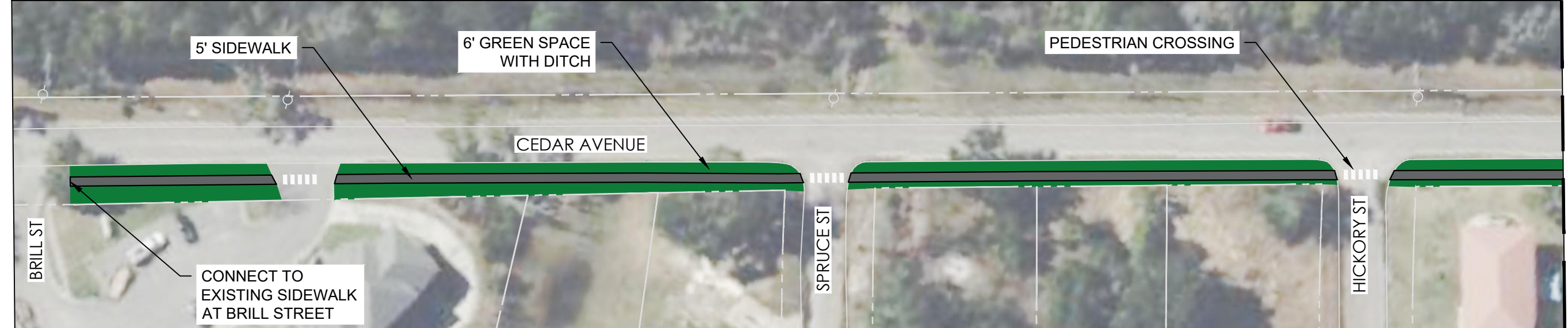
SEGMENT: CEDAR AVENUE

SEGMENT TERMINI: Brill St to "Curve" in North St.

Segment Length: 2500

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$44,992.23	\$44,992.23
2	CONSTRUCTION LAYOUT	1	LS	\$16,380.67	\$16,380.67
3	EARTHWORK	750	CY	\$20.00	\$15,000.00
4	DRAINAGE PIPE	1,808	LF	\$125.00	\$226,000.00
5	DRAINAGE STRUCTURES	21	EA	\$5,000.00	\$105,000.00
6	CONCRETE SIDEWALK	1,289	SY	\$70.00	\$90,222.22
7	ELEVATED WALKWAY (PILE SUPPORTED)	180	LF	\$550.00	\$99,000.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	6	EA	\$1,800.00	\$10,800.00
10	EROSION CONTROL	2,500	LF	\$5.00	\$12,500.00
11	GRASSING	2,778	SY	\$5.00	\$13,888.89
	SUBTOTAL CONSTRUCTION BUDGET =				\$633,784.01
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$63,378.40
	CEI (7.5%)				\$47,533.80
	CONTINGENCY (15%)				\$95,067.60
	TOTAL SEGMENT PROJECT BUDGET				\$839,763.81

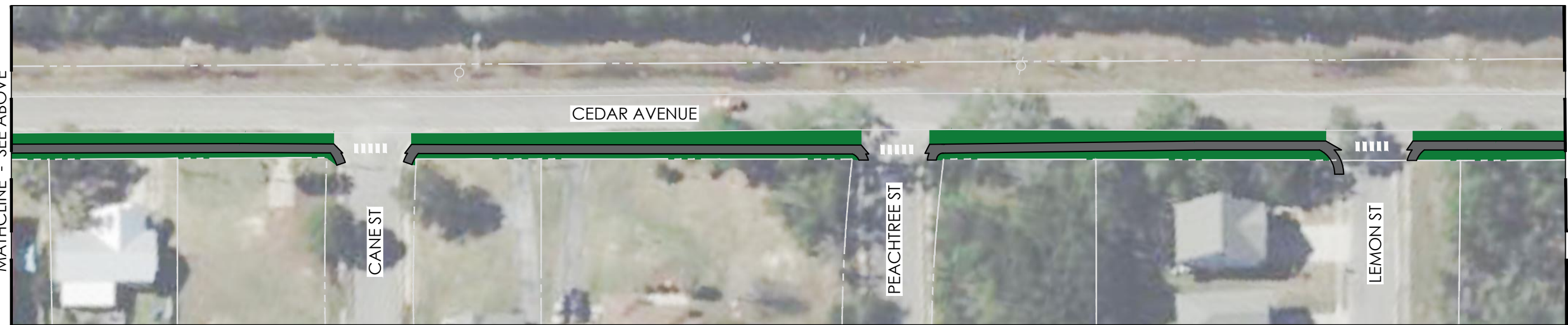
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NORTH
SCALE: 1"=60'

MATHCLINE - SEE BELOW

A



MATHCLINE - SEE BELOW

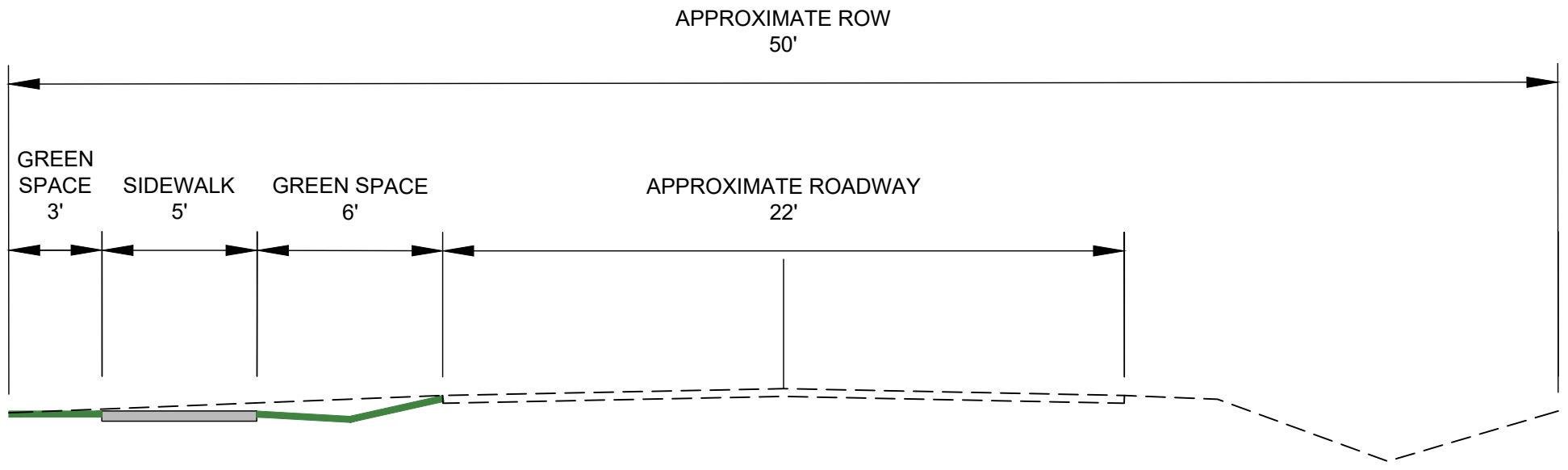
B



C



EXISTING CONDITION (TYPICAL)



PROPOSED TYPICAL SECTION (TYPICAL)

s:\3859 pass christian sidewalk\01-drafting\01-depa\01-production\3859 planset.dwg-12/21/2023
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SEAL

REV	DATE	BY

SIDEWALK IMPROVEMENTS
 CITY OF PASS CHRISTIAN
 PASS CHRISTIAN, MISSISSIPPI
 EVERETT STREET

CAD NLG
 ENG BJS
 DATE 12/20/2023
 SCALE SHOWN
 BMA# 3859
 FILE: \3859\CAD\DWG\3859 PLANSET

SHEET

C-221



ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

SEGMENT: ST. LOUIS & EVERETT
SEGMENT TERMINI: Everett from Barkley to Elliot
Segment Length: 4115

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$15,369.06	\$15,369.06
2	CONSTRUCTION LAYOUT	1	LS	\$5,595.53	\$5,595.53
3	EARTHWORK	1,235	CY	\$20.00	\$24,690.00
4	DRAINAGE PIPE	0	LF	\$125.00	\$0.00
5	DRAINAGE STRUCTURES	0	EA	\$5,000.00	\$0.00
6	CONCRETE SIDEWALK	2,286	SY	\$70.00	\$160,027.78
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	1	EA	\$1,800.00	\$1,800.00
10	EROSION CONTROL	4,115	LF	\$5.00	\$20,575.00
11	GRASSING	4,572	SY	\$5.00	\$22,861.11
SUBTOTAL CONSTRUCTION BUDGET =					\$250,918.49
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$25,091.85
	CEI (7.5%)				\$18,818.89
	CONTINGENCY (15%)				\$37,637.77
TOTAL SEGMENT PROJECT BUDGET					\$332,467.00

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NORTH
SCALE: 1"=60'

MATHCLINE - SEE BELOW

A



NORTH
SCALE: 1"=60'

MATHCLINE - SEE BELOW

B



NORTH
SCALE: 1"=60'

MATHCLINE - SEE SHEET C-223

C

EVERETT STREET

SHEET C-222

DATE: 07/27/2023

THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.

MATHCLINE - SEE SHEET C-222



SCALE: 1"=60'

A

MATHCLINE - SEE ABOVE



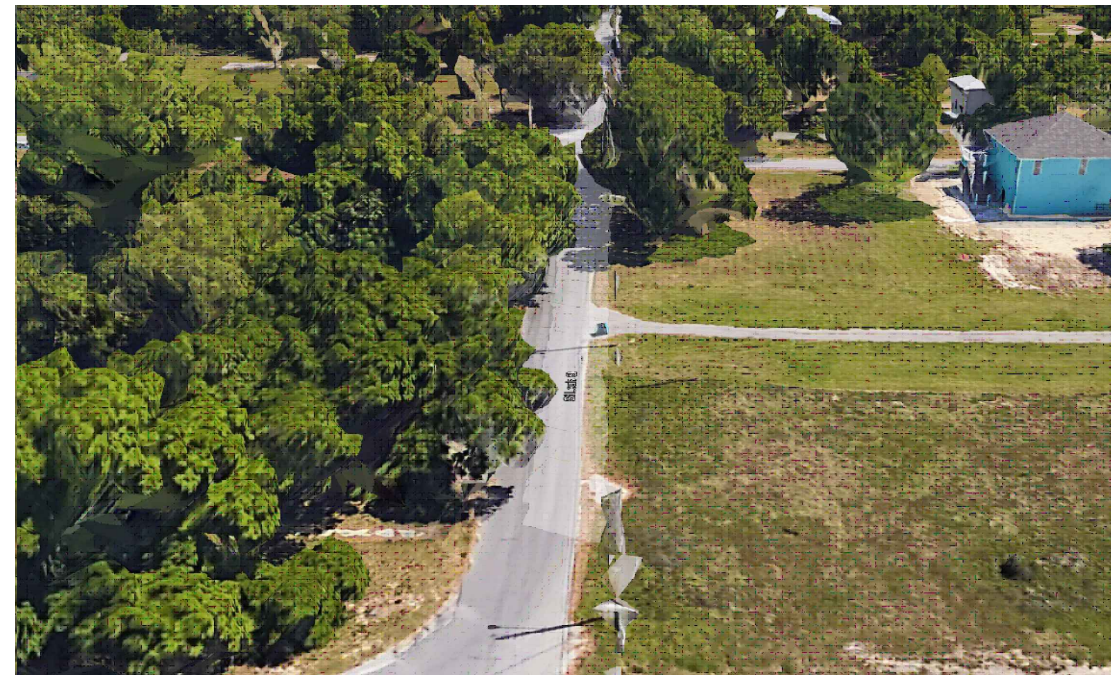
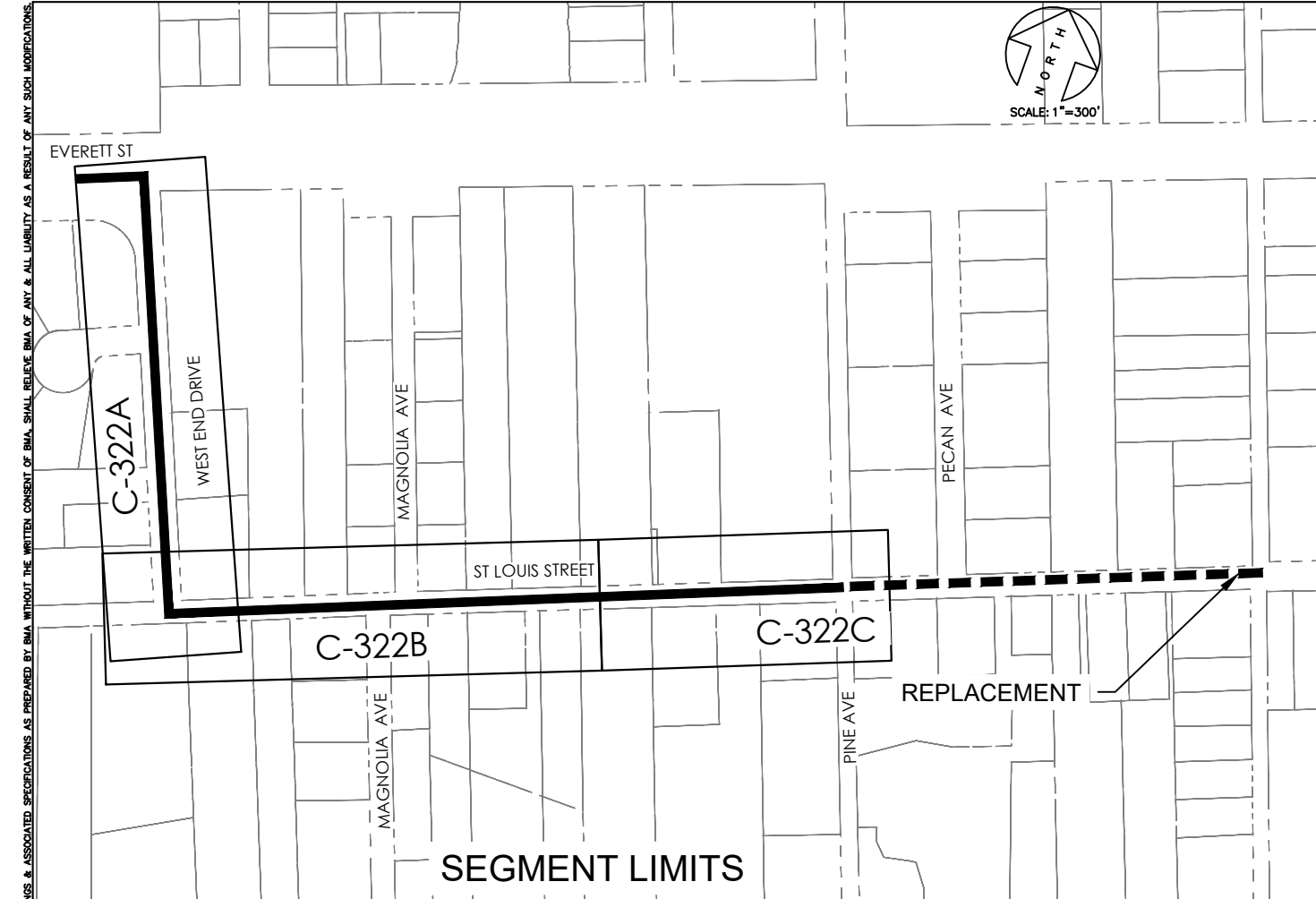
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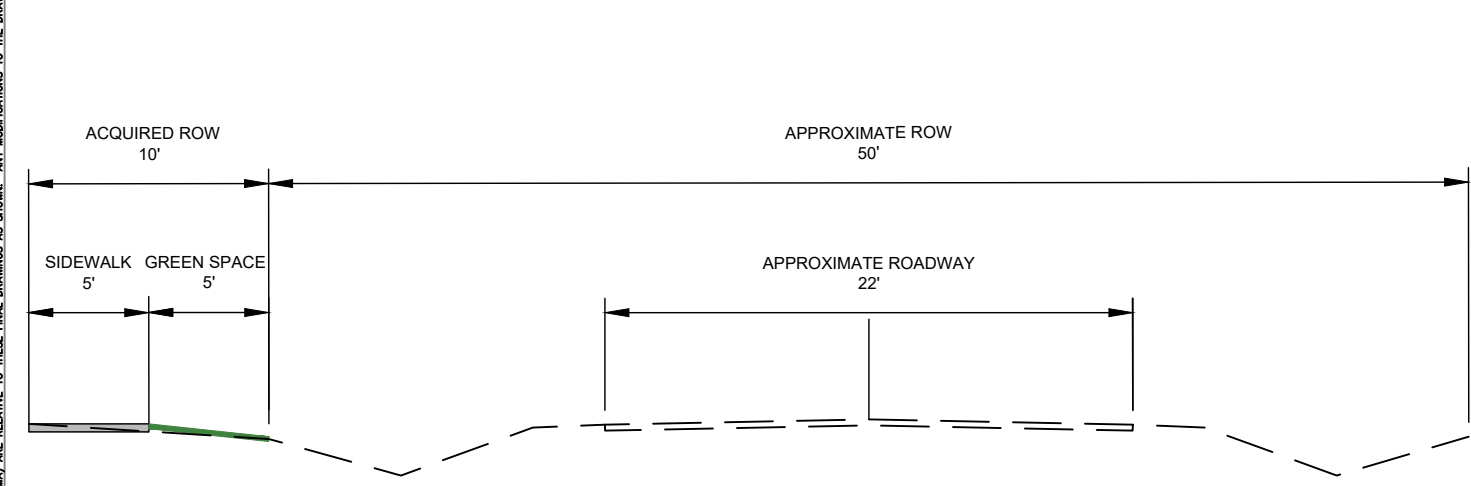
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EVERETT STREET

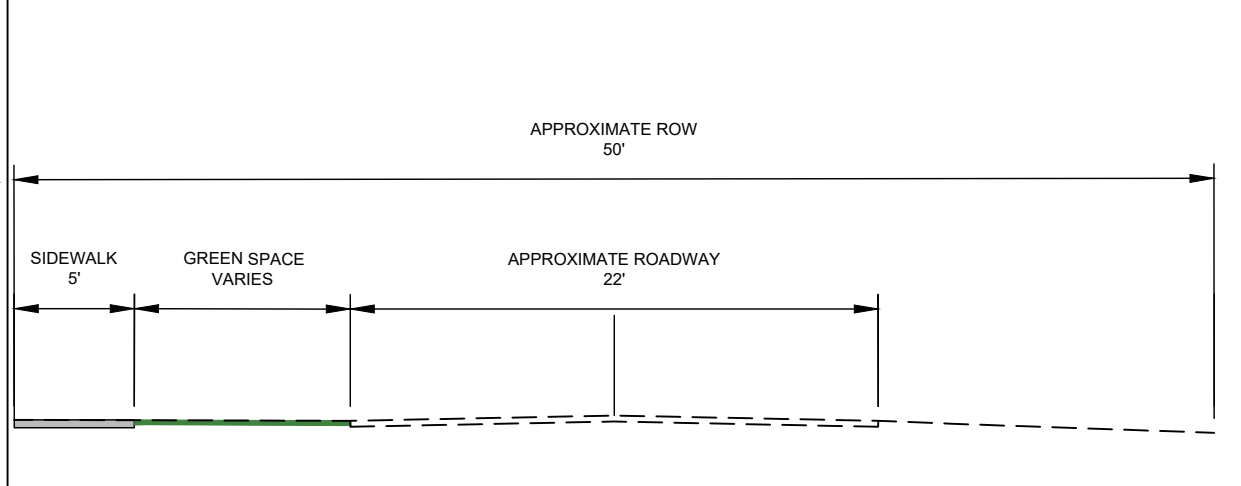
SHEET C-223



EXISTING CONDITION (TYPICAL)



WEST END - PROPOSED TYPICAL SECTION (TYPICAL)



ST. LOUIS - PROPOSED TYPICAL SECTION (TYPICAL)

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SEAL

REV	DATE	BY

SIDEWALK IMPROVEMENTS
 CITY OF PASS CHRISTIAN
 PASS CHRISTIAN, MISSISSIPPI
 WEST END DRIVE / ST. LOUIS STREET

CAD NLG
 ENG BJS
 DATE 12/20/2023
 SCALE SHOWN
 BMA# 3859
 FILE: \3859\CAD\DWG\3859 PLANSET

SHEET



C-321

ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

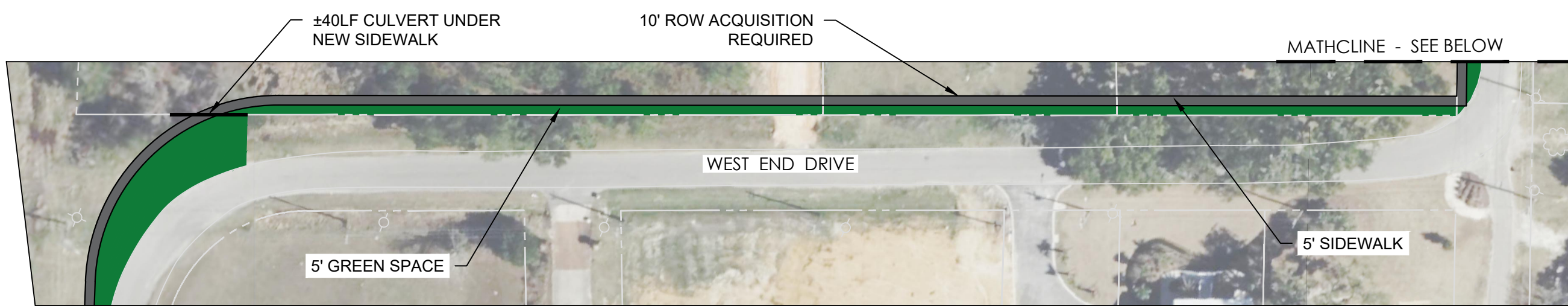
SEGMENT: ST. LOUIS & EVERETT

SEGMENT TERMINI: Clarence (St. Louis) to Barkley (on Everett)

Segment Length: 1950

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$40,362.27	\$40,362.27
2	CONSTRUCTION LAYOUT	1	LS	\$14,695.00	\$14,695.00
3	EARTHWORK	585	CY	\$20.00	\$11,700.00
4	DRAINAGE PIPE	4	LF	\$125.00	\$500.00
5	DRAINAGE STRUCTURES	80	EA	\$5,000.00	\$400,000.00
6	CONCRETE SIDEWALK	1,083	SY	\$70.00	\$75,833.33
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	1	EA	\$1,800.00	\$1,800.00
10	EROSION CONTROL	1,950	LF	\$5.00	\$9,750.00
11	GRASSING	2,167	SY	\$5.00	\$10,833.33
SUBTOTAL CONSTRUCTION BUDGET =					\$565,473.93
	ROW/ESMT	10950	SF	\$10.00	\$109,500.00
	PRELIMINARY ENGINEERING (10%)				\$56,547.39
	CEI (7.5%)				\$42,410.55
	CONTINGENCY (15%)				\$84,821.09
TOTAL SEGMENT PROJECT BUDGET					\$858,752.96

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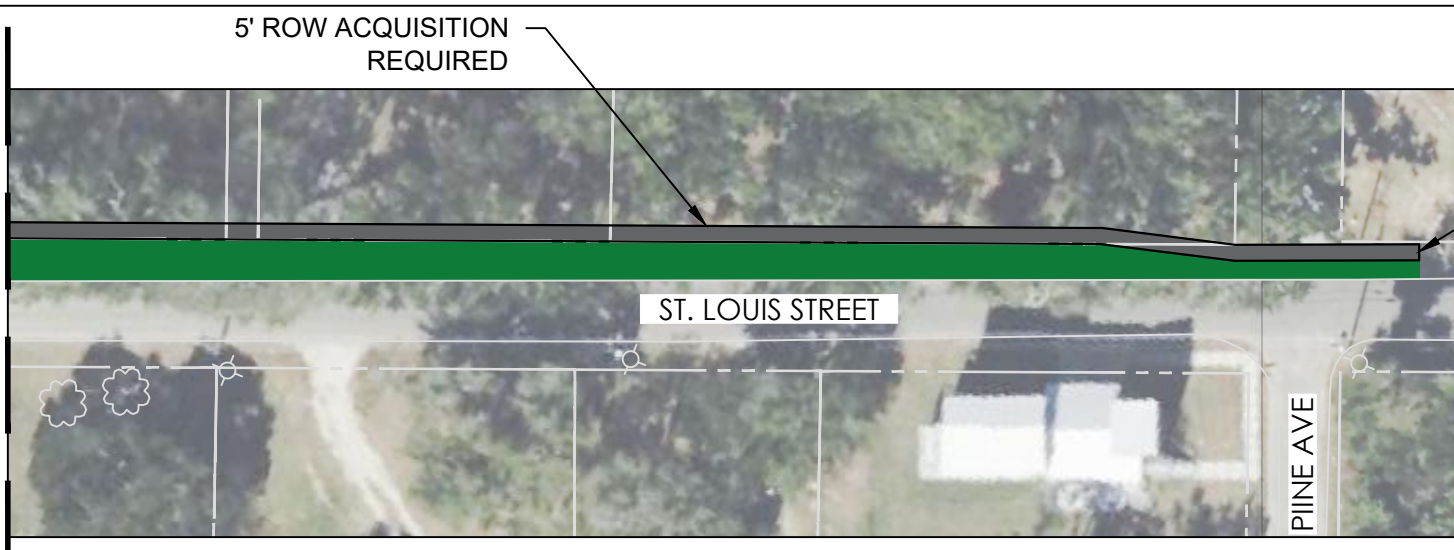
NORTH
SCALE: 1"=60'

A



NORTH
SCALE: 1"=60'

B

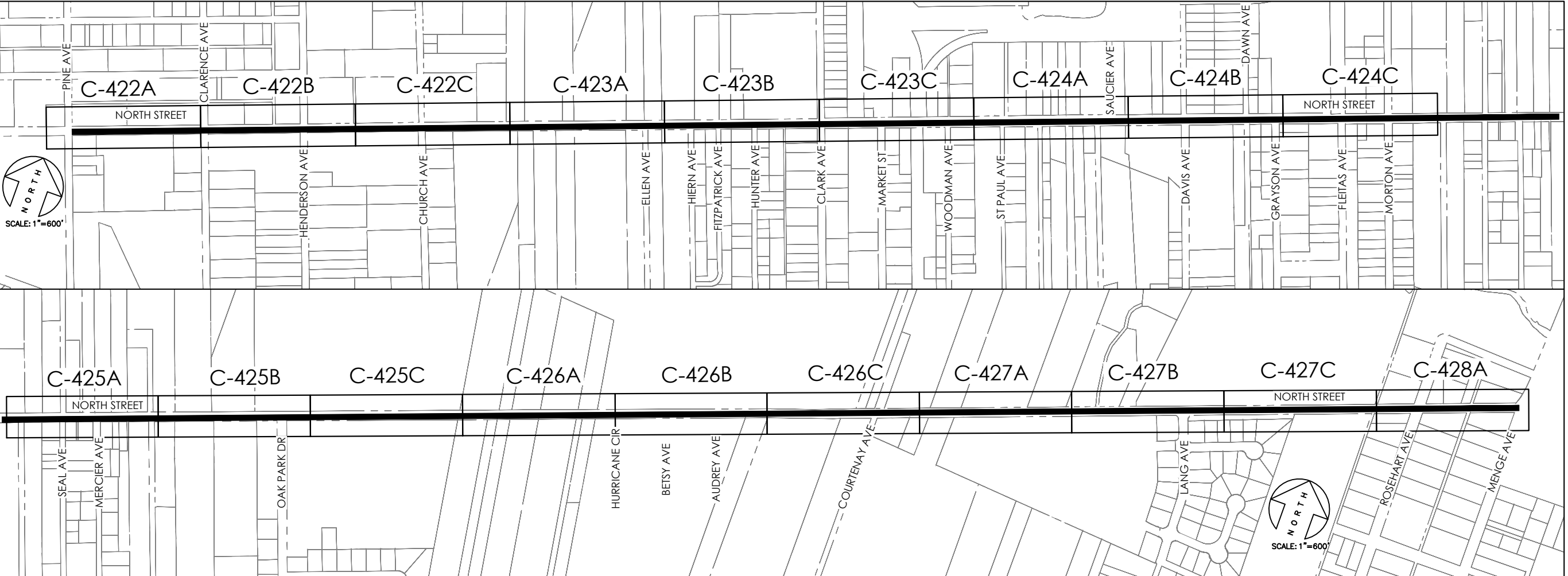


CONNECT TO EXISTING SIDEWALK AT PINE AVENUE
PROJECT ESTIMATE INCLUDES REPLACEMENT OF EXISTING SIDEWALK TO CLARENCE AVE

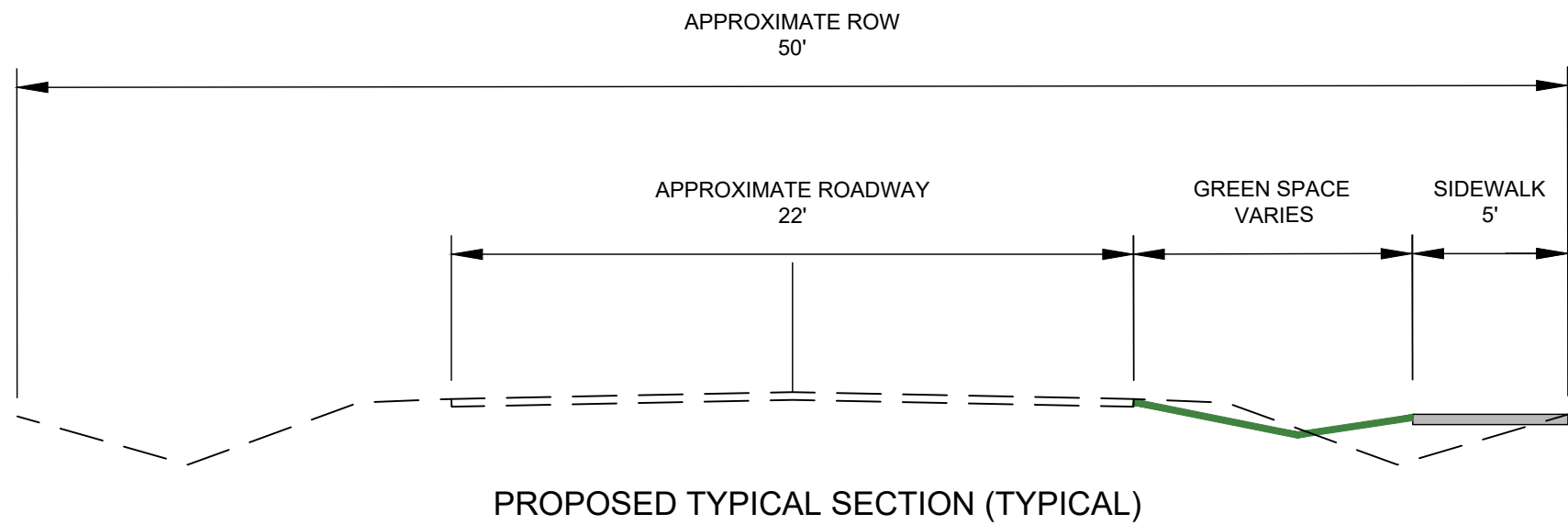
NORTH
SCALE: 1"=60'

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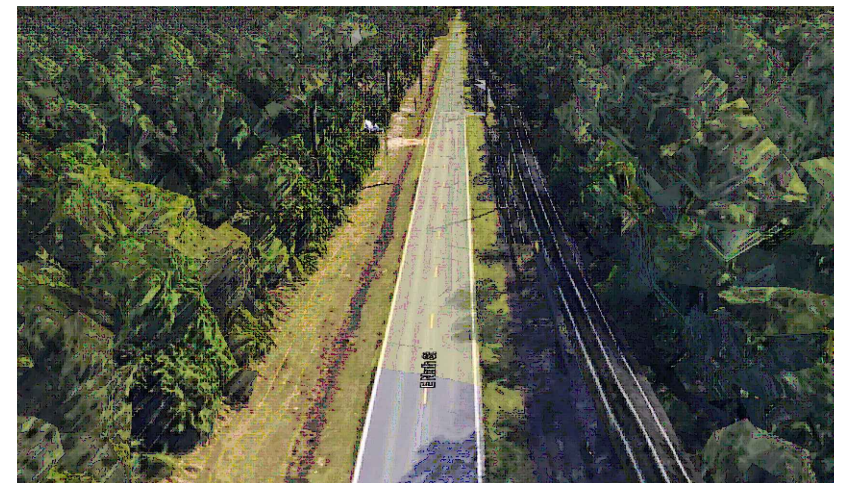
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SEGMENT LIMITS



PROPOSED TYPICAL SECTION (TYPICAL)



EXISTING CONDITION (TYPICAL)



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SEAL

REV	DATE	BY

SIDEWALK IMPROVEMENTS
 CITY OF PASS CHRISTIAN
 PASS CHRISTIAN, MISSISSIPPI
 NORTH STREET

CAD NLG
 ENG BJS
 DATE 12/20/2023
 SCALE SHOWN
 BMA# 3859
 FILE: \\3859\CAD\DWG\3859_PLANTNET

SHEET

C-421

ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

SEGMENT: NORTH STREET
SEGMENT TERMINI: Pine Ave. to Church Ave.
Segment Length: 1840

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$18,935.15	\$18,935.15
2	CONSTRUCTION LAYOUT	1	LS	\$6,893.87	\$6,893.87
3	EARTHWORK	552	CY	\$20.00	\$11,040.00
4	DRAINAGE PIPE	800	LF	\$125.00	\$100,000.00
5	DRAINAGE STRUCTURES	8	EA	\$5,000.00	\$40,000.00
6	CONCRETE SIDEWALK	1,022	SY	\$70.00	\$71,555.56
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	4	EA	\$1,800.00	\$7,200.00
10	EROSION CONTROL	1,840	LF	\$5.00	\$9,200.00
11	GRASSING	2,044	SY	\$5.00	\$10,222.22
	SUBTOTAL CONSTRUCTION BUDGET =				\$275,046.80
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$27,504.68
	CEI (7.5%)				\$20,628.51
	CONTINGENCY (15%)				\$41,257.02
	TOTAL SEGMENT PROJECT BUDGET				\$364,437.01

ENGINEER'S OPINION OF PROBABLE COSTS

**CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM**

SEGMENT: NORTH STREET

SEGMENT TERMINI: Church Ave. to Davis Ave.

Segment Length: 3885

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$60,512.18	\$60,512.18
2	CONSTRUCTION LAYOUT	1	LS	\$22,031.13	\$22,031.13
3	EARTHWORK	1,166	CY	\$20.00	\$23,310.00
4	DRAINAGE PIPE	2,896	LF	\$125.00	\$362,000.00
5	DRAINAGE STRUCTURES	20	EA	\$5,000.00	\$100,000.00
6	CONCRETE SIDEWALK	2,069	SY	\$70.00	\$144,861.11
7	ELEVATED WALKWAY (PILE SUPPORTED)	160	LF	\$550.00	\$88,000.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	9	EA	\$1,800.00	\$16,200.00
10	EROSION CONTROL	3,885	LF	\$5.00	\$19,425.00
11	GRASSING	4,317	SY	\$5.00	\$21,583.33
SUBTOTAL CONSTRUCTION BUDGET =					\$857,922.76
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$85,792.28
	CEI (7.5%)				\$64,344.21
	CONTINGENCY (15%)				\$128,688.41
TOTAL SEGMENT PROJECT BUDGET					\$1,136,747.65

ENGINEER'S OPINION OF PROBABLE COSTS

**CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM**

SEGMENT: NORTH STREET

SEGMENT TERMINI: Davis Ave. to Oak Park Dr.

Segment Length: 2700

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$25,386.52	\$25,386.52
2	CONSTRUCTION LAYOUT	1	LS	\$9,242.67	\$9,242.67
3	EARTHWORK	780	CY	\$20.00	\$15,600.00
4	DRAINAGE PIPE	752	LF	\$125.00	\$94,000.00
5	DRAINAGE STRUCTURES	8	EA	\$5,000.00	\$40,000.00
6	CONCRETE SIDEWALK	1,456	SY	\$70.00	\$101,888.89
7	ELEVATED WALKWAY (PILE SUPPORTED)	80	LF	\$550.00	\$44,000.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	7	EA	\$1,800.00	\$12,600.00
10	EROSION CONTROL	2,700	LF	\$5.00	\$13,500.00
11	GRASSING	3,000	SY	\$5.00	\$15,000.00
SUBTOTAL CONSTRUCTION BUDGET =					\$371,218.08
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$37,121.81
	CEI (7.5%)				\$27,841.36
	CONTINGENCY (15%)				\$55,682.71
TOTAL SEGMENT PROJECT BUDGET					\$491,863.96

ENGINEER'S OPINION OF PROBABLE COSTS**CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM****SEGMENT: NORTH STREET**

SEGMENT TERMINI: Oak Park Dr. to Hurricane Circle

Segment Length: 1800

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$8,058.72	\$8,058.72
2	CONSTRUCTION LAYOUT	1	LS	\$2,934.00	\$2,934.00
3	EARTHWORK	540	CY	\$20.00	\$10,800.00
4	DRAINAGE PIPE	24	LF	\$125.00	\$3,000.00
5	DRAINAGE STRUCTURES	1	EA	\$5,000.00	\$5,000.00
6	CONCRETE SIDEWALK	1,000	SY	\$70.00	\$70,000.00
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	5	EA	\$1,800.00	\$9,000.00
10	EROSION CONTROL	1,800	LF	\$5.00	\$9,000.00
11	GRASSING	2,000	SY	\$5.00	\$10,000.00
SUBTOTAL CONSTRUCTION BUDGET =					\$127,792.72
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$12,779.27
	CEI (7.5%)				\$9,584.45
	CONTINGENCY (15%)				\$19,168.91
TOTAL SEGMENT PROJECT BUDGET					\$169,325.35

ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

SEGMENT: NORTH STREET

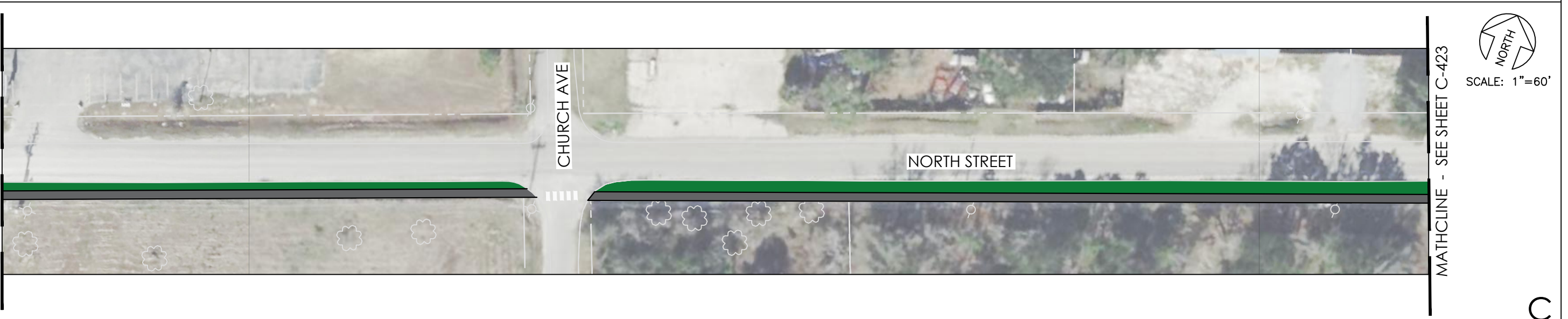
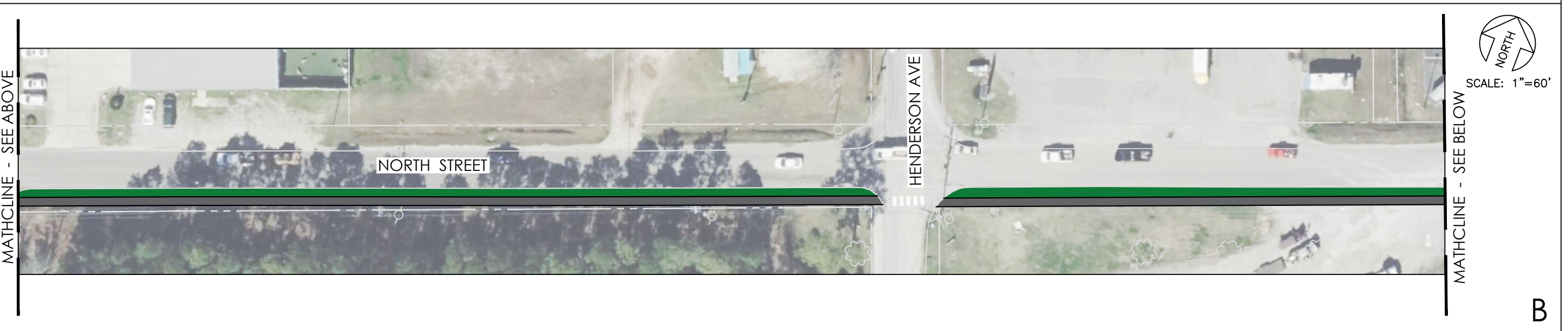
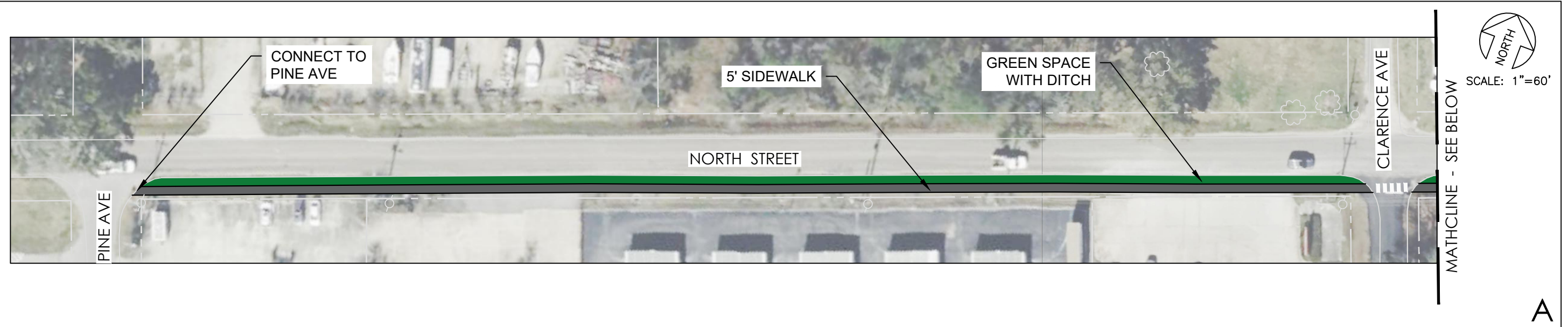
SEGMENT TERMINI: Hurricane Circle to Menge Avenue

Segment Length: 4240

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$69,902.30	\$69,902.30
2	CONSTRUCTION LAYOUT	1	LS	\$25,449.87	\$25,449.87
3	EARTHWORK	1,272	CY	\$20.00	\$25,440.00
4	DRAINAGE PIPE	4,272	LF	\$125.00	\$534,000.00
5	DRAINAGE STRUCTURES	23	EA	\$5,000.00	\$115,000.00
6	CONCRETE SIDEWALK	2,356	SY	\$70.00	\$164,888.89
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	5	EA	\$1,800.00	\$9,000.00
10	EROSION CONTROL	4,240	LF	\$5.00	\$21,200.00
11	GRASSING	4,711	SY	\$5.00	\$23,555.56
SUBTOTAL CONSTRUCTION BUDGET =					\$988,436.61
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$98,843.66
	CEI (7.5%)				\$74,132.75
	CONTINGENCY (15%)				\$148,265.49
TOTAL SEGMENT PROJECT BUDGET					\$1,309,678.51

THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.

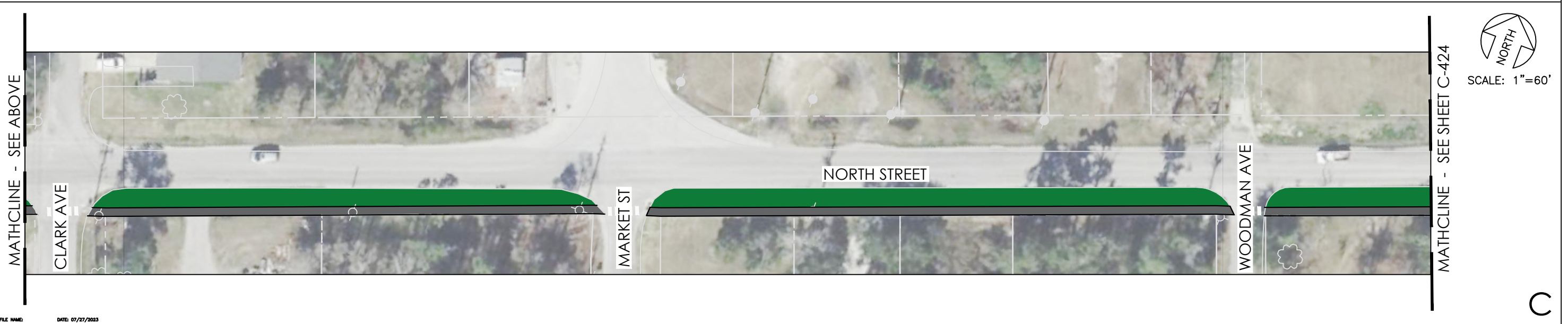
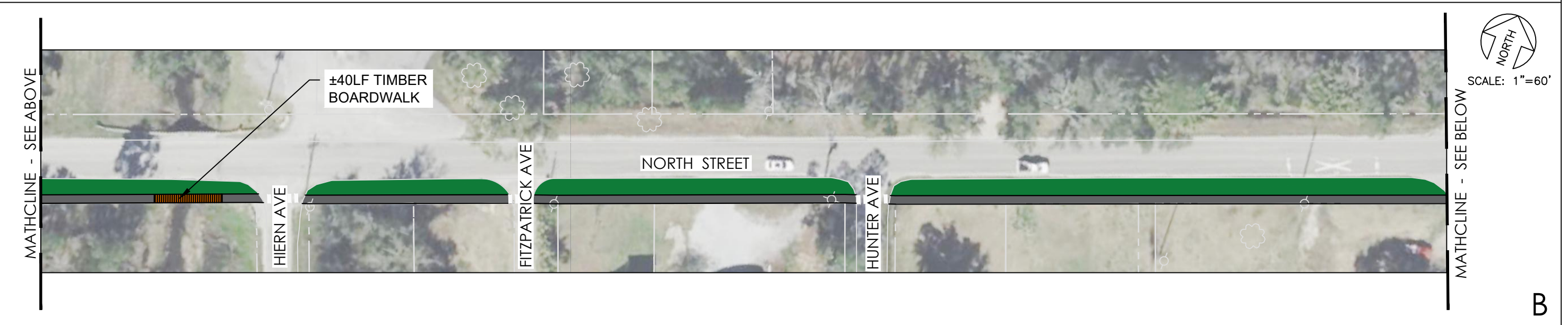
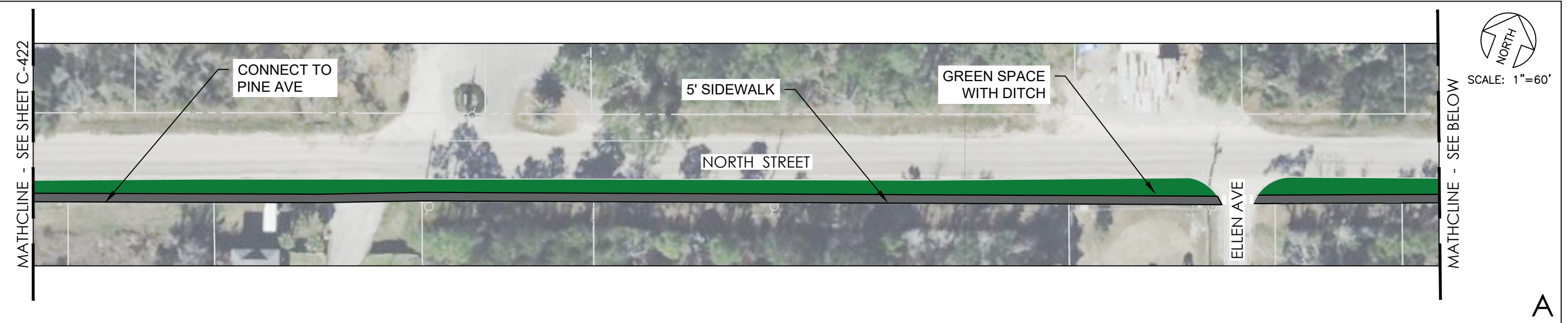
FILE NAME: _____
DATE: 07/27/2023



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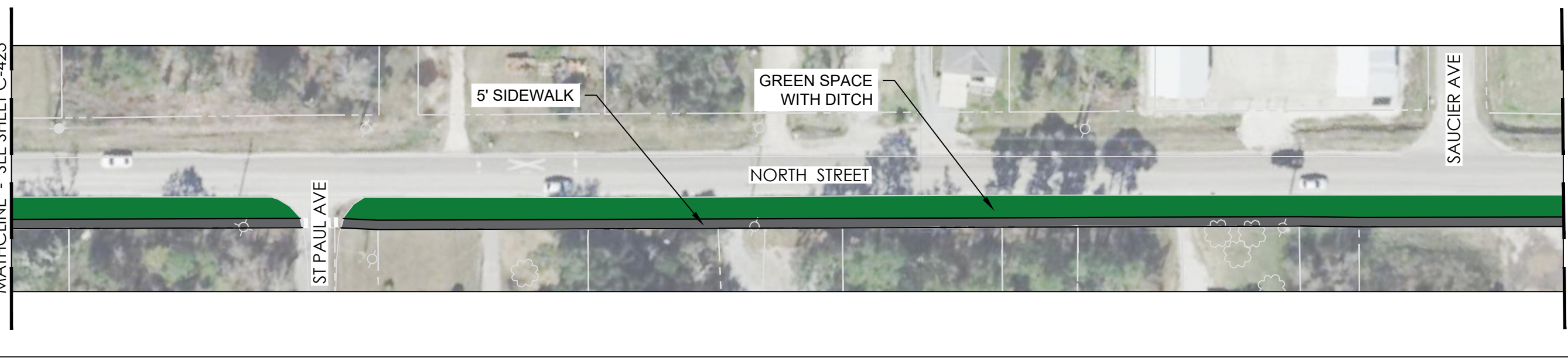
FILE NAME: DATE: 07/27/2023

bma BROWN, MITCHELL & ALEXANDER, INC.
CONSULTING ENGINEERS
GULFPORT • BILOXI • PASCAGOULA



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MATHCLINE - SEE SHEET C-423

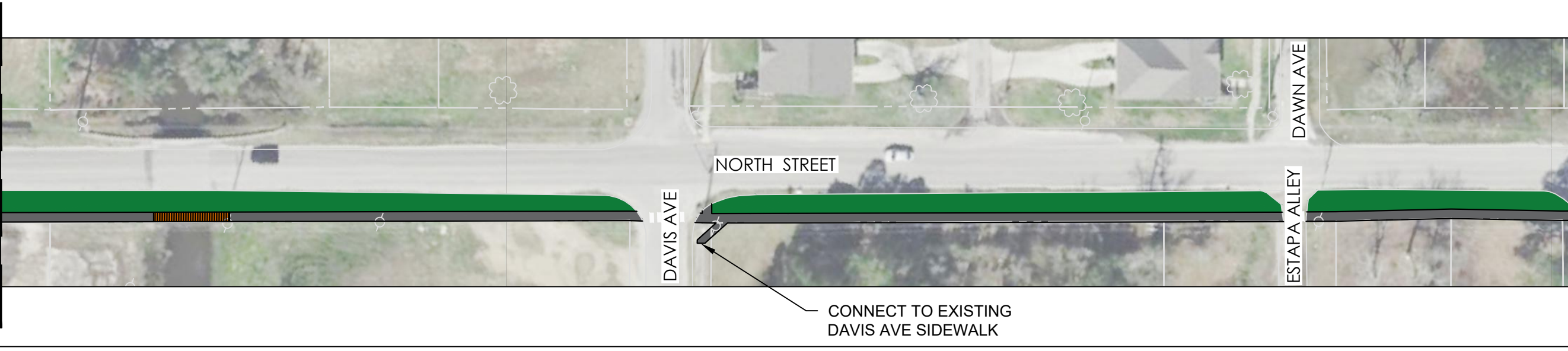


MATHCLINE - SEE BELOW

NORTH
SCALE: 1"=60'

A

MATHCLINE - SEE ABOVE

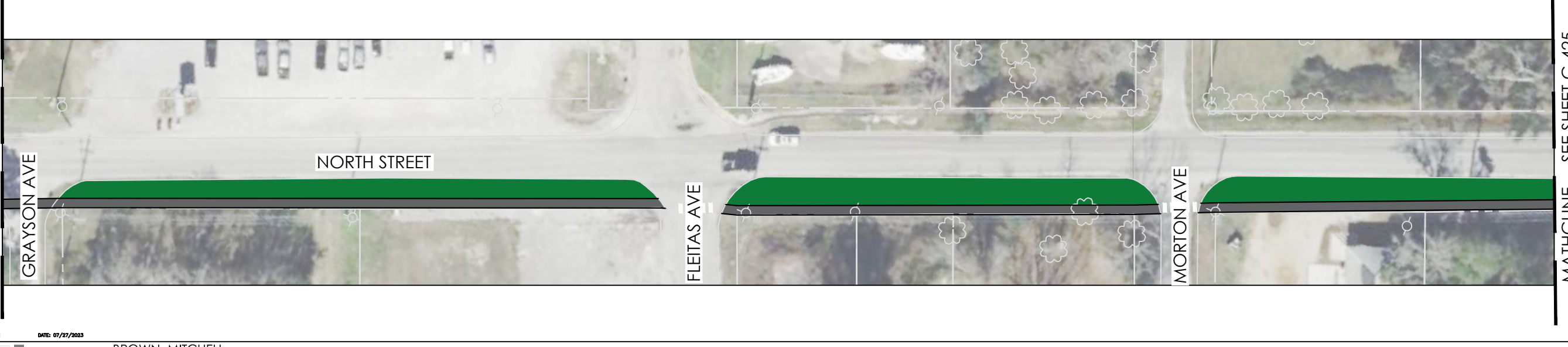


MATHCLINE - SEE BELOW

NORTH
SCALE: 1"=60'

B

MATHCLINE - SEE ABOVE



MATHCLINE - SEE SHEET C-425

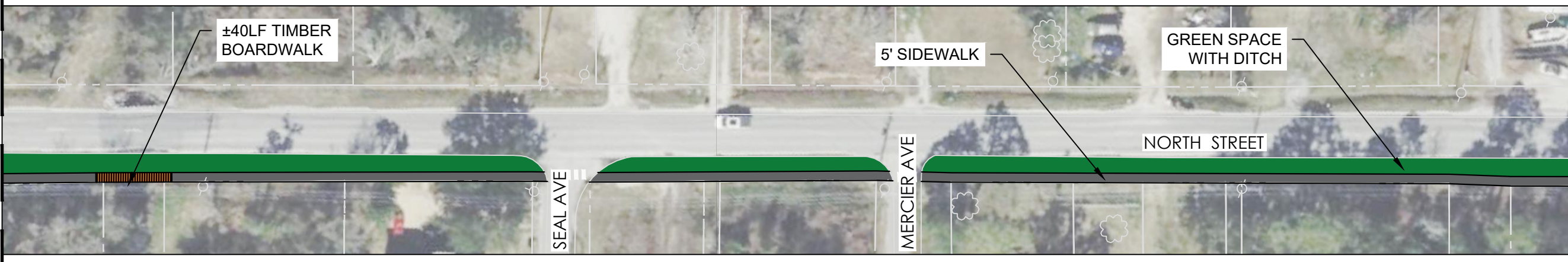
NORTH
SCALE: 1"=60'

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THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.

07/27/2023

MATHCLINE - SEE SHEET C-424



SCALE: 1"=60'

MATHCLINE - SEE BELOW

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MATHCLINE - SEE ABOVE



SCALE: 1"=60'

MATHCLINE - SEE BELOW

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MATHCLINE - SEE ABOVE



SCALE: 1"=60'

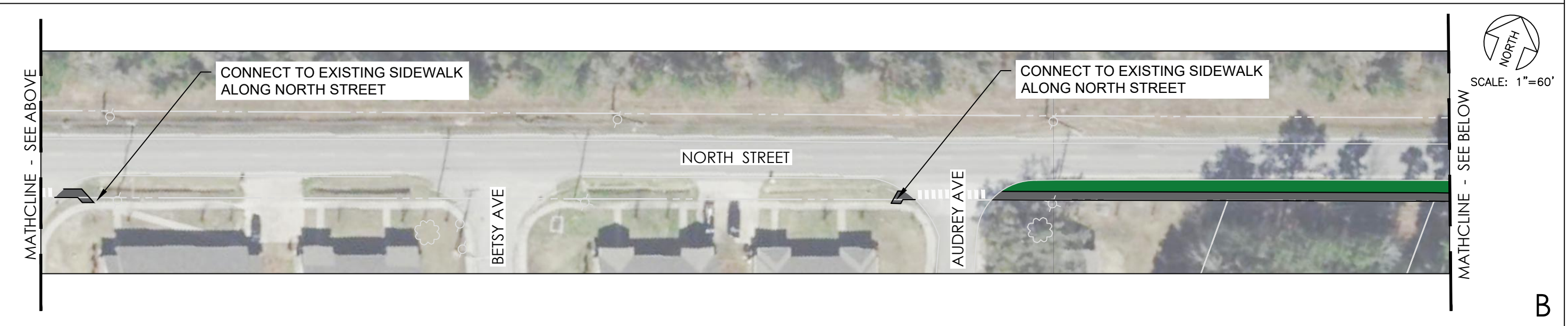
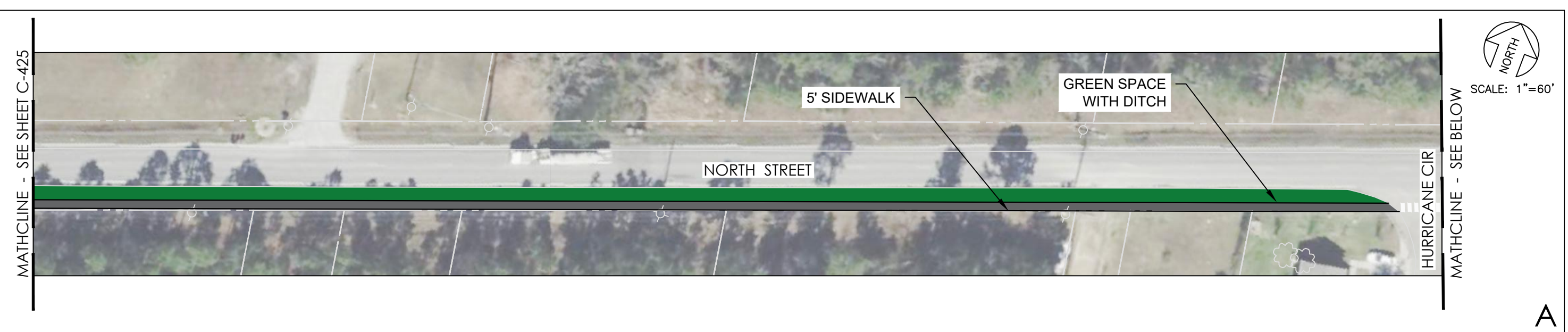
MATHCLINE - SEE SHEET C-426

C

NORTH STREET

SHEET C-425

THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.



07/27/2023


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MATHCLINE - SEE ABOVE



MATHCLINE - SEE SHEET C-428


 SCALE: 1"=60'

C

MATHCLINE - SEE ABOVE



MATHCLINE - SEE BELOW


 SCALE: 1"=60'

B

MATHCLINE - SEE SHEET C-426



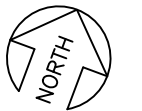
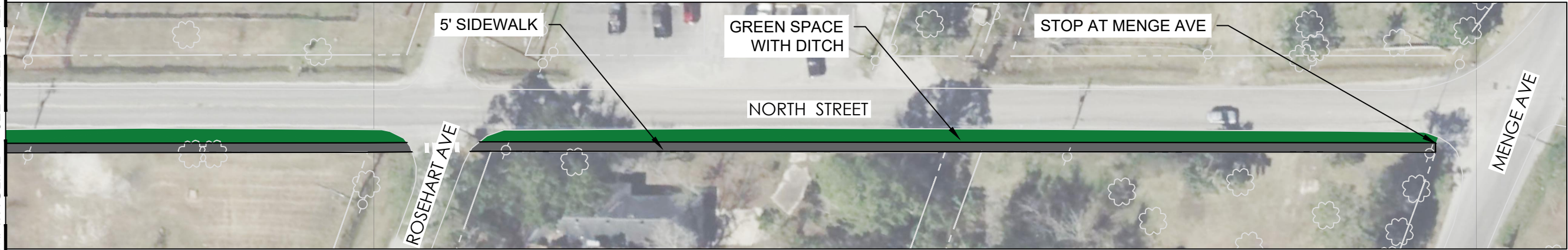
MATHCLINE - SEE BELOW

 SCALE: 1"=60'

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MATHCLINE - SEE SHEET C-427

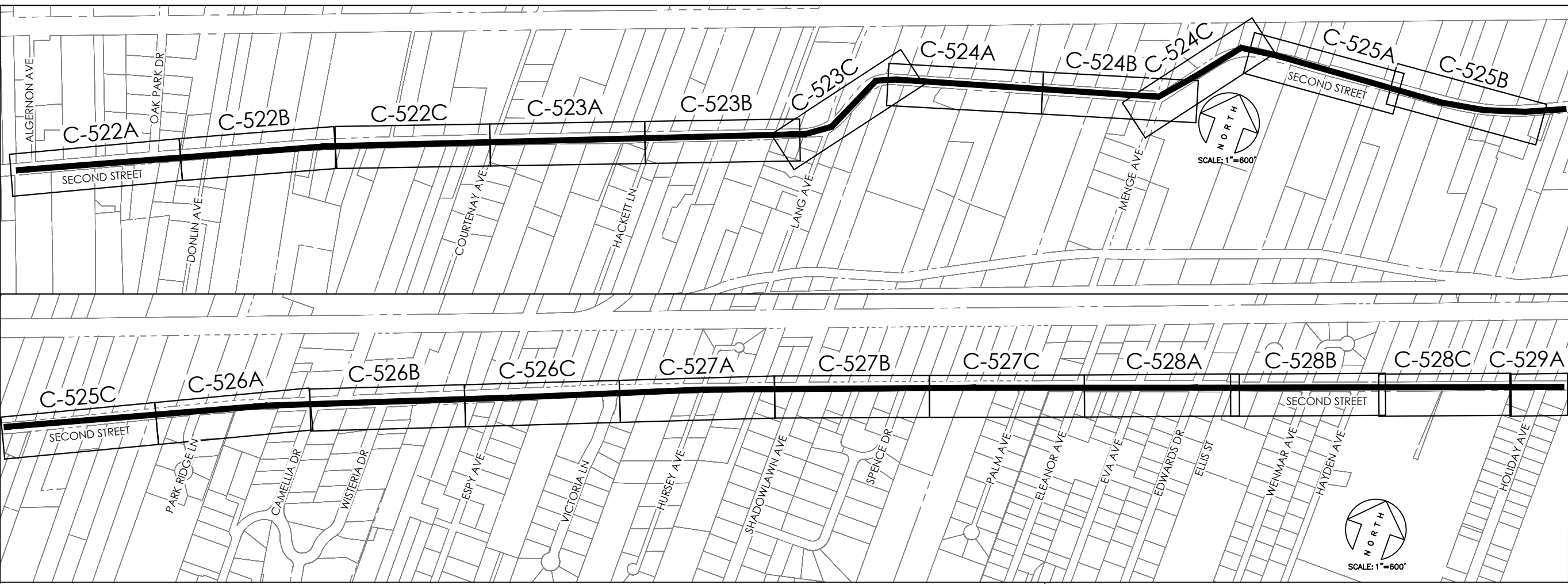


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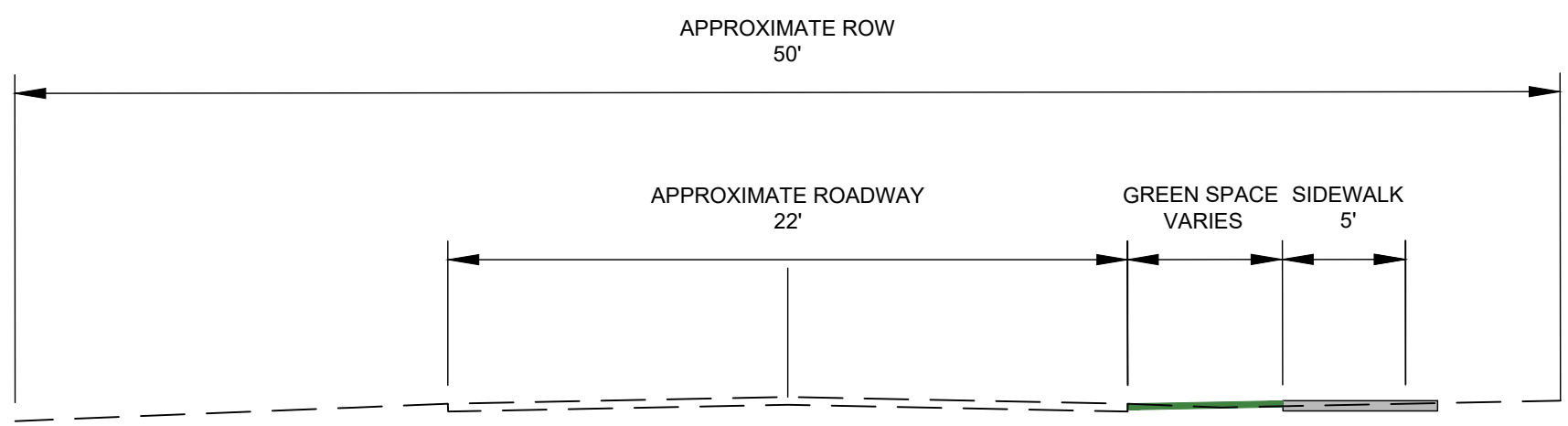
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07/27/2023

s:\3859 pass christian\sidewalk\01-drafting\01-drafting\01-production\3859 planset.dwg-12/21/2023
 THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.



SEGMENT LIMITS



PROPOSED TYPICAL SECTION (TYPICAL)



EXISTING CONDITION (TYPICAL)

461 Cowan Road,
Gulfport, MS 39507
(228)864-7612

131 Rue Magnolia
Pascagoula, MS 39567
(228)832-6130

**BROWN, MITCHELL
& ALEXANDER, INC.**

CONSULTING ENGINEERS

www.bmaengineers.com

SEAL

REV	DATE	BY

SIDEWALK IMPROVEMENTS

CITY OF PASS CHRISTIAN

PASS CHRISTIAN, MISSISSIPPI

SECOND STREET

CAD: NLG

ENG: BJS

DATE: 12/20/2023

SCALE: SHOWN

BMA#: 3859

FILE: \3859\CAD\DWG\3859 PLANSET

C-521

ENGINEER'S OPINION OF PROBABLE COSTS**CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM****SEGMENT: SECOND STREET**

SEGMENT TERMINI: Algernon to Lang Ave.

Segment Length: 4277

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$16,199.00	\$16,199.00
2	CONSTRUCTION LAYOUT	1	LS	\$5,897.69	\$5,897.69
3	EARTHWORK	1,283	CY	\$20.00	\$25,662.00
4	DRAINAGE PIPE	0	LF	\$125.00	\$0.00
5	DRAINAGE STRUCTURES	0	EA	\$5,000.00	\$0.00
6	CONCRETE SIDEWALK	2,376	SY	\$70.00	\$166,327.78
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	1	EA	\$1,000.00	\$1,000.00
9	CROSSWALK	2	EA	\$1,800.00	\$3,600.00
10	MID BLOCK CROSSING	1	EA	\$10,000.00	\$10,000.00
11	EROSION CONTROL	4,277	LF	\$5.00	\$21,385.00
12	GRASSING	4,752	SY	\$5.00	\$23,761.11
	SUBTOTAL CONSTRUCTION BUDGET =				<u>\$273,832.58</u>
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$27,383.26
	CEI (7.5%)				\$20,537.44
	CONTINGENCY (15%)				\$41,074.89
	TOTAL SEGMENT PROJECT BUDGET				<u>\$362,828.17</u>

ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

SEGMENT: SECOND STREET
 SEGMENT TERMINI: Lang Ave. to Park Ridge
 Segment Length: 5060

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$19,523.67	\$19,523.67
2	CONSTRUCTION LAYOUT	1	LS	\$7,108.13	\$7,108.13
3	EARTHWORK	1,518	CY	\$20.00	\$30,360.00
4	DRAINAGE PIPE	24	LF	\$125.00	\$3,000.00
5	DRAINAGE STRUCTURES	1	EA	\$5,000.00	\$5,000.00
6	CONCRETE SIDEWALK	2,811	SY	\$70.00	\$196,777.78
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	1	EA	\$1,800.00	\$1,800.00
10	MID BLOCK CROSSING	2	EA	\$10,000.00	\$20,000.00
11	EROSION CONTROL	5,060	LF	\$5.00	\$25,300.00
12	GRASSING	5,622	SY	\$5.00	\$28,111.11
	SUBTOTAL CONSTRUCTION BUDGET =				\$336,980.70
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$33,698.07
	CEI (7.5%)				\$25,273.55
	CONTINGENCY (15%)				\$50,547.10
	TOTAL SEGMENT PROJECT BUDGET				\$446,499.42

ENGINEER'S OPINION OF PROBABLE COSTS

**CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM**

SEGMENT: SECOND STREET
 SEGMENT TERMINI: Park Ridge to Spence
 Segment Length: 3750

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$14,612.27	\$14,612.27
2	CONSTRUCTION LAYOUT	1	LS	\$5,320.00	\$5,320.00
3	EARTHWORK	1,125	CY	\$20.00	\$22,500.00
4	DRAINAGE PIPE	0	LF	\$125.00	\$0.00
5	DRAINAGE STRUCTURES	0	EA	\$5,000.00	\$0.00
6	CONCRETE SIDEWALK	2,083	SY	\$70.00	\$145,833.33
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	0	EA	\$1,000.00	\$0.00
9	CROSSWALK	5	EA	\$1,800.00	\$9,000.00
10	EROSION CONTROL	3,750	LF	\$5.00	\$18,750.00
11	GRASSING	4,167	SY	\$5.00	\$20,833.33
SUBTOTAL CONSTRUCTION BUDGET =					\$236,848.93
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$23,684.89
	CEI (7.5%)				\$17,763.67
	CONTINGENCY (15%)				\$35,527.34
TOTAL SEGMENT PROJECT BUDGET					\$313,824.84

ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

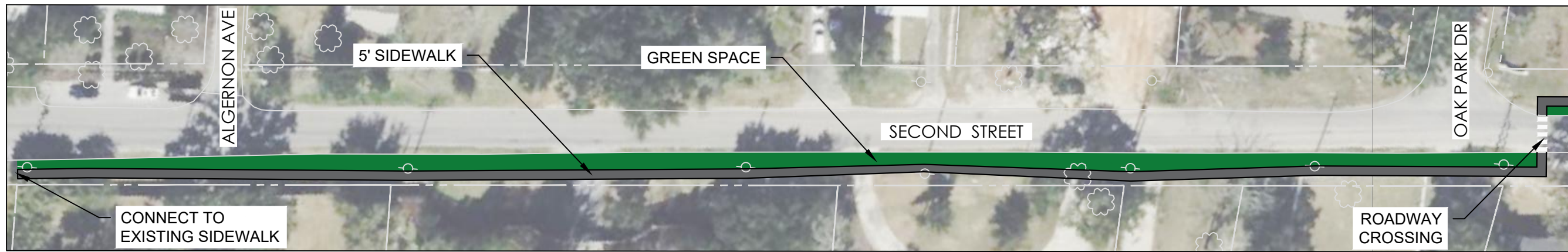
SEGMENT: **SECOND STREET**
 SEGMENT TERMINI: Spence to City Limits
 Segment Length: 3455

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$14,460.47	\$14,460.47
2	CONSTRUCTION LAYOUT	1	LS	\$5,264.73	\$5,264.73
3	EARTHWORK	1,037	CY	\$20.00	\$20,730.00
4	DRAINAGE PIPE	0	LF	\$125.00	\$0.00
5	DRAINAGE STRUCTURES	0	EA	\$5,000.00	\$0.00
6	SLOTTED CURB	200	LF	\$30.00	\$6,000.00
7	CONCRETE SIDEWALK	1,919	SY	\$70.00	\$134,361.11
8	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
9	SIGNAGE	0	EA	\$1,000.00	\$0.00
10	CROSSWALK	8	EA	\$1,800.00	\$14,400.00
11	MID BLOCK CROSSING	1	EA	\$10,000.00	\$10,000.00
12	EROSION CONTROL	3,455	LF	\$5.00	\$17,275.00
13	GRASSING	3,839	SY	\$5.00	\$19,194.44
	SUBTOTAL CONSTRUCTION BUDGET =				\$241,685.76
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$24,168.58
	CEI (7.5%)				\$18,126.43
	CONTINGENCY (15%)				\$36,252.86
	TOTAL SEGMENT PROJECT BUDGET				\$320,233.63

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FILE NAME:

DATE: 07/27/2023



NORTH
SCALE: 1"=60'

MATHCLINE - SEE BELOW

A



NORTH
SCALE: 1"=60'

MATHCLINE - SEE BELOW

B



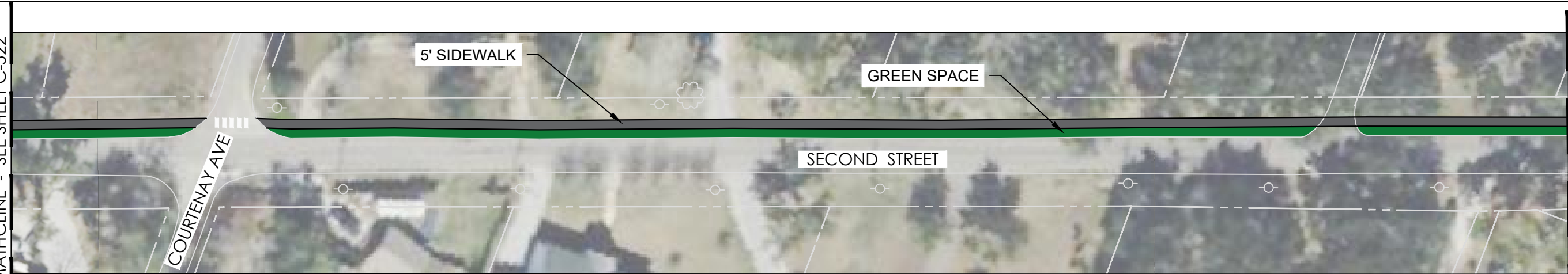
NORTH
SCALE: 1"=60'

MATHCLINE - SEE SHEET C-523

C

THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.

MATHCLINE - SEE SHEET C-522



MATHCLINE - SEE BELOW
SCALE: 1"=60'
NORTH

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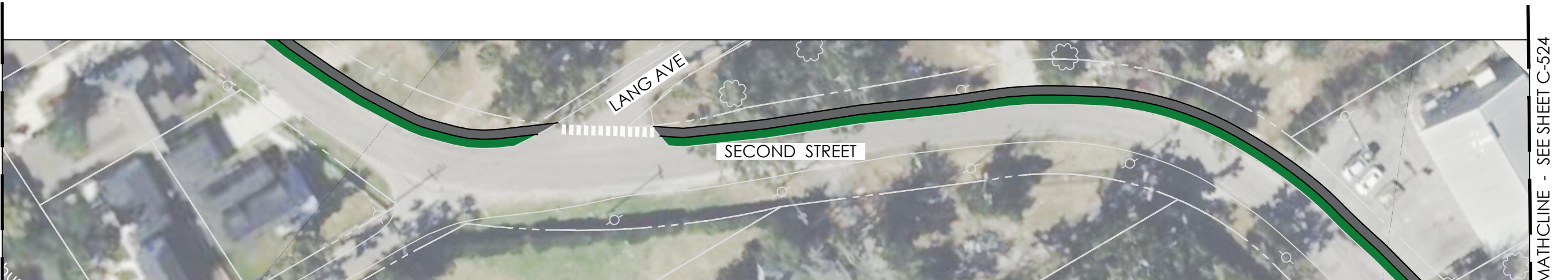
MATHCLINE - SEE ABOVE



MATHCLINE - SEE BELOW
SCALE: 1"=60'
NORTH

B

MATHCLINE - SEE ABOVE



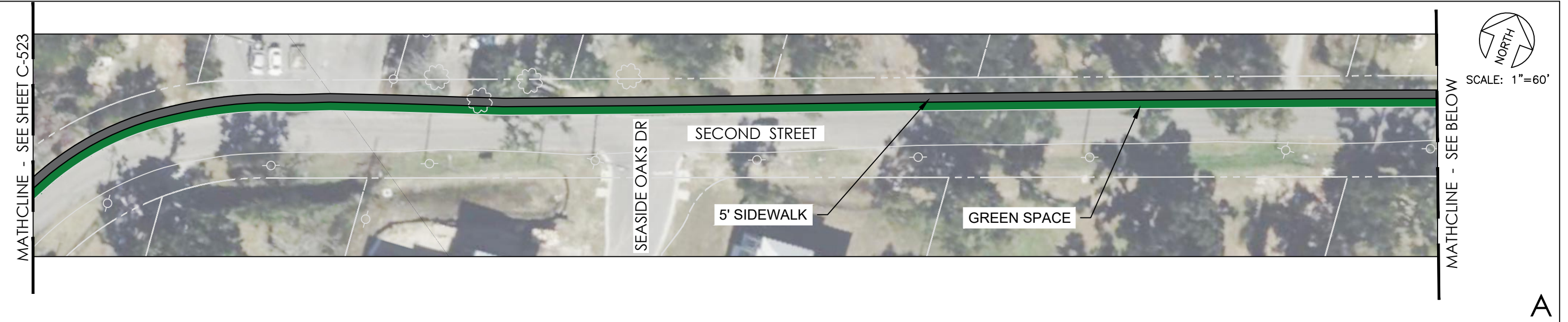
MATHCLINE - SEE SHEET C-524
SCALE: 1"=60'
NORTH

C

DATE: 07/27/2023

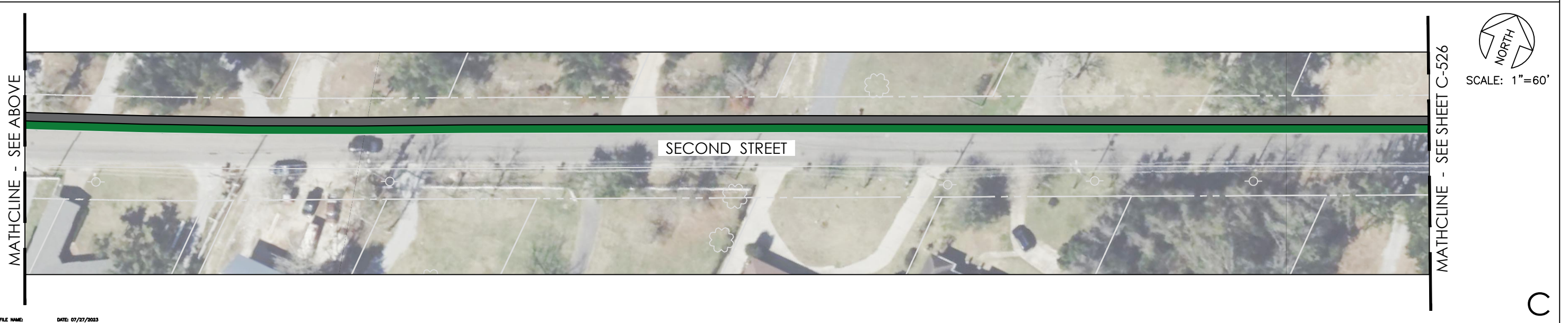
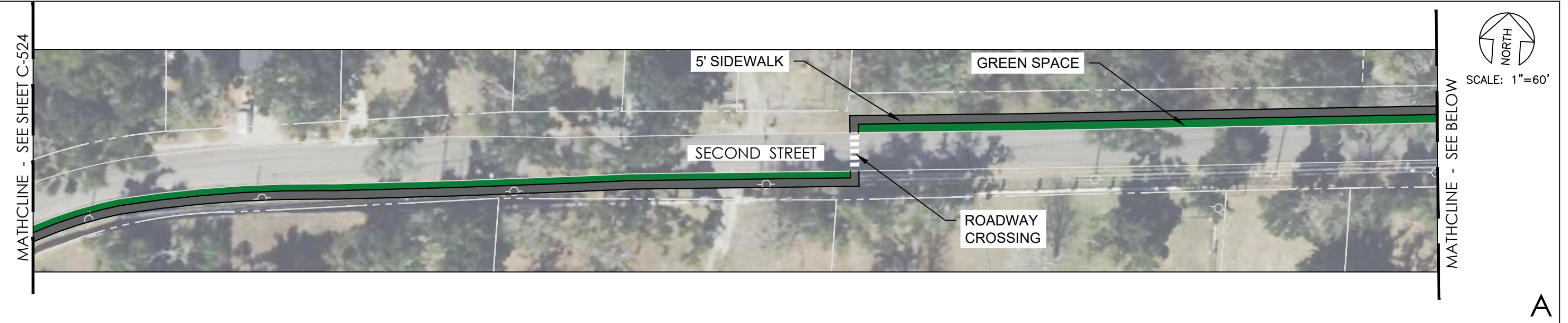
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FILE NAME: DATE: 07/27/2023



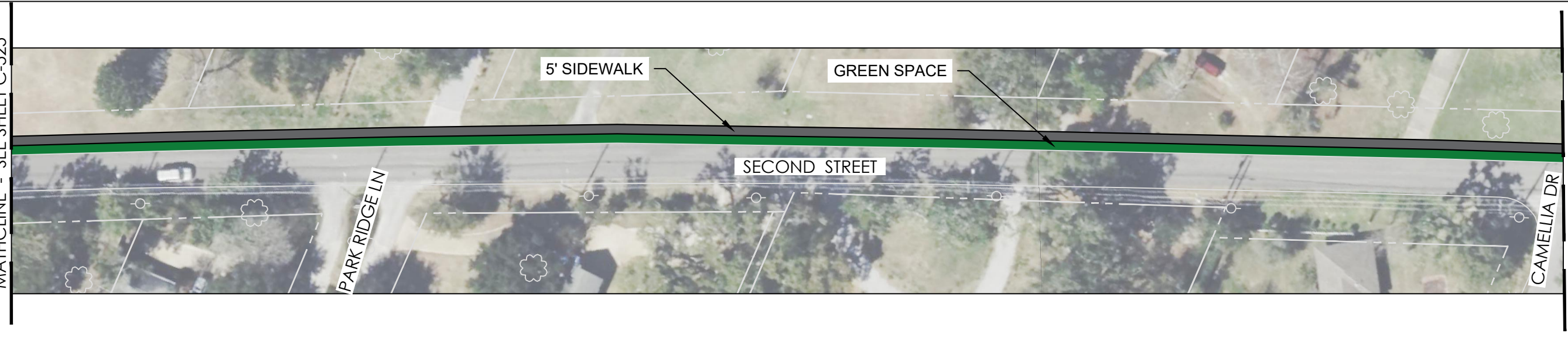
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FILE NAME: DATE: 07/27/2023

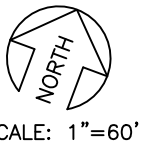


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MATHCLINE - SEE SHEET C-525



MATHCLINE - SEE BELOW



SCALE: 1"=60'

A

MATHCLINE - SEE ABOVE



MATHCLINE - SEE BELOW



SCALE: 1"=60'

B

MATHCLINE - SEE ABOVE



MATHCLINE - SEE SHEET C-527



SCALE: 1"=60'

C

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MATHCLINE - SEE ABOVE



MATHCLINE - SEE SHEET C-528

NORTH
SCALE: 1"=60'

C

MATHCLINE - SEE ABOVE

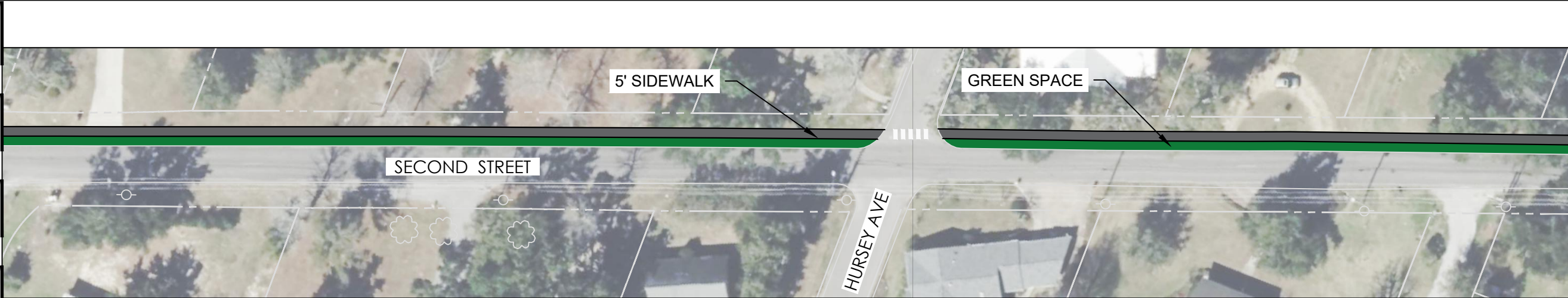


MATHCLINE - SEE BELOW

NORTH
SCALE: 1"=60'

B

MATHCLINE - SEE SHEET C-526



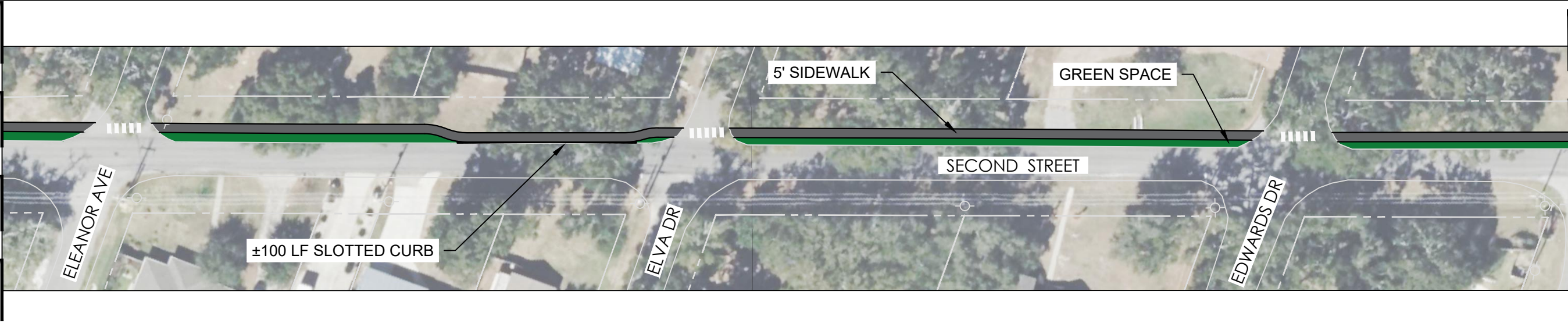
MATHCLINE - SEE BELOW

NORTH
SCALE: 1"=60'

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ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.

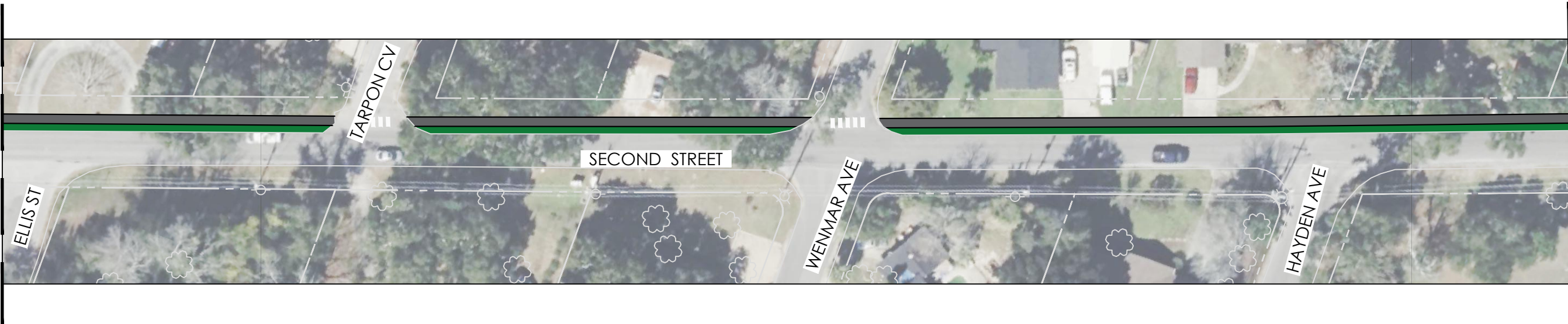
MATHCLINE - SEE SHEET C-527



MATHCLINE - SEE BELOW
NORTH
SCALE: 1"=60'

A

MATHCLINE - SEE ABOVE



MATHCLINE - SEE BELOW
NORTH
SCALE: 1"=60'

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MATHCLINE - SEE ABOVE



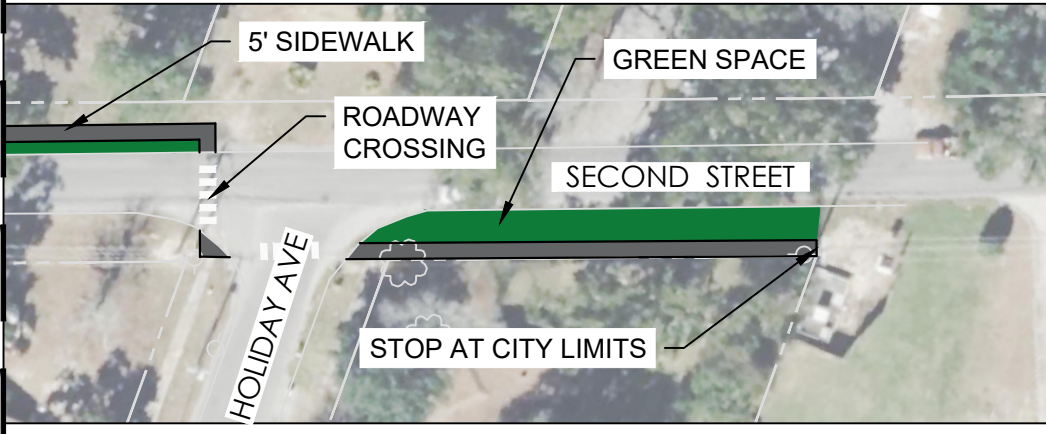
MATHCLINE - SEE SHEET C-529
NORTH
SCALE: 1"=60'

C

FILE NAME: DATE: 07/27/2023

THE PROFESSIONAL ENGINEERING SERVICES PROVIDED BY BROWN, MITCHELL & ALEXANDER, INC. (BMA) ARE RELATIVE TO THESE FINAL DRAWINGS AS SHOWN. ANY MODIFICATIONS TO THE DRAWINGS & ASSOCIATED SPECIFICATIONS AS PREPARED BY BMA WITHOUT THE WRITTEN CONSENT OF BMA SHALL RELIEVE BMA OF ANY & ALL LIABILITY AS A RESULT OF ANY SUCH MODIFICATIONS.

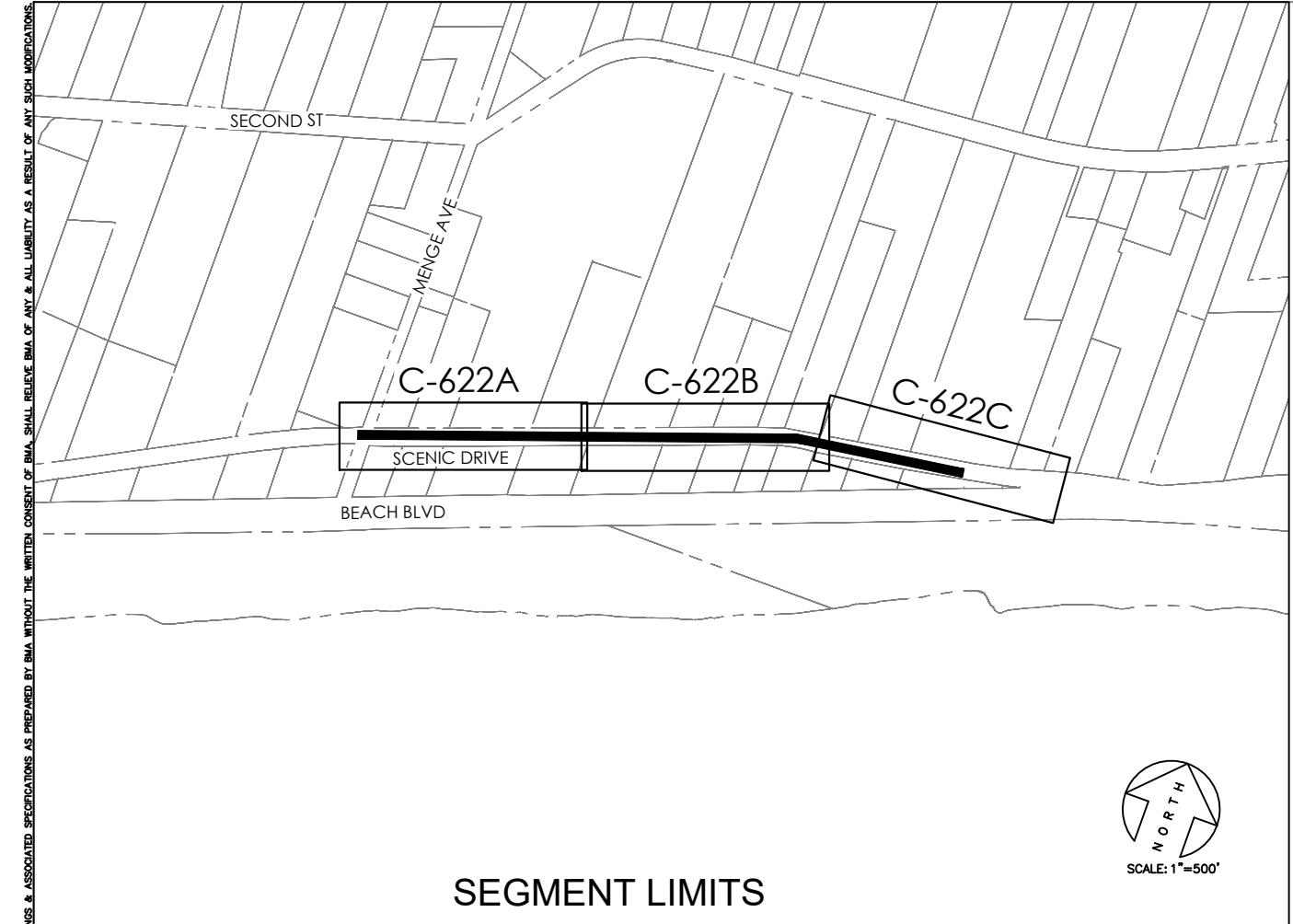
MATHCLINE - SEE SHEET C-528



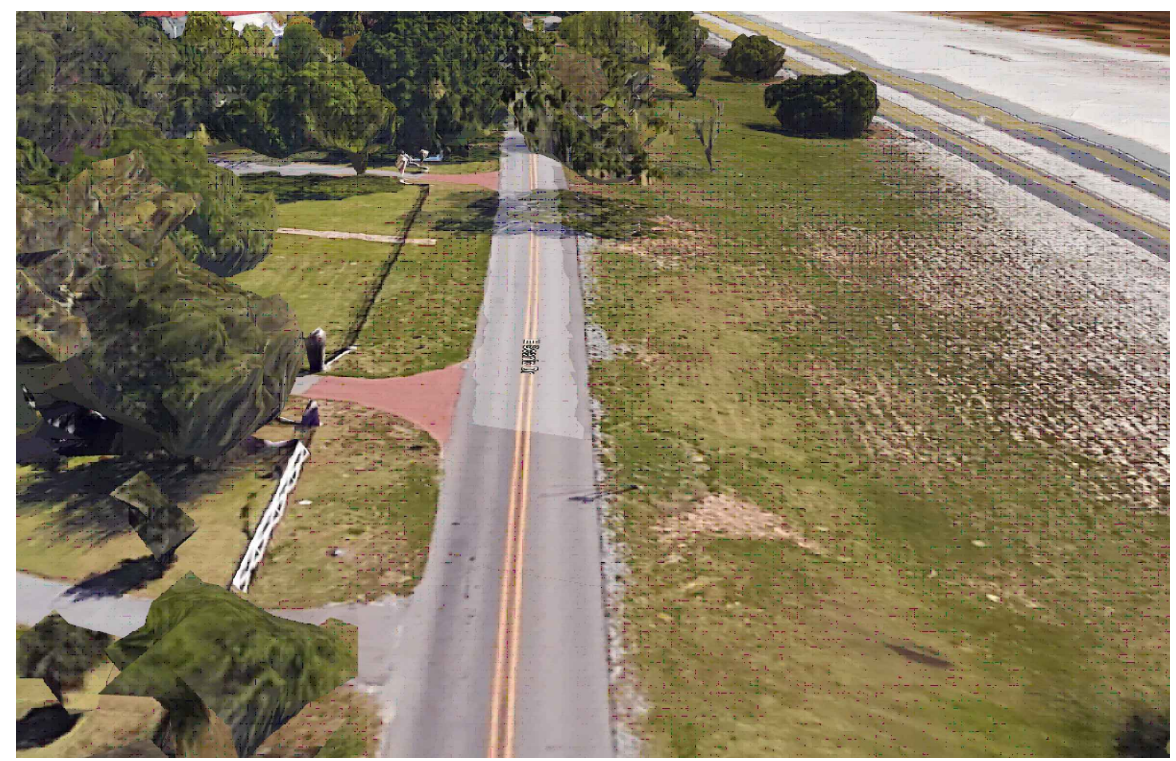
NORTH
SCALE: 1"=60'

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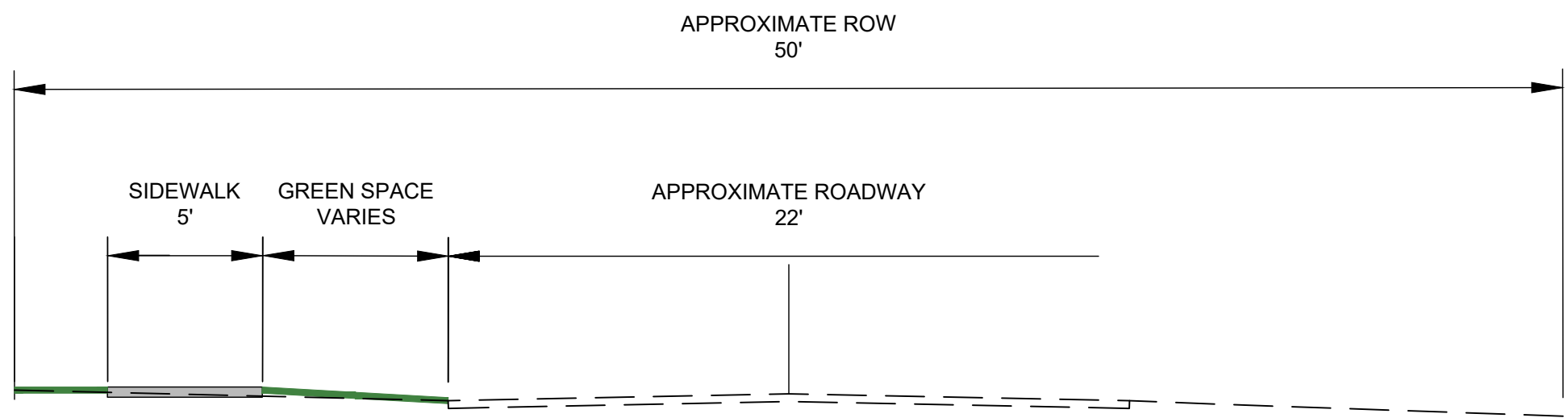
FILE NAME: DATE: 07/27/2023



SEGMENT LIMITS



EXISTING CONDITION (TYPICAL)



PROPOSED TYPICAL SECTION (TYPICAL)

s:\3859 pass christian sidewalk\01-drafting\01-depa\01-production\3859 planset.dwg-12/21/2023
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401 Cowan Road,
 Suite A,
 Pascagoula, MS 39567
 (228)864-7412

**BROWN, MITCHELL
 & ALEXANDER, INC.**
 CONSULTING ENGINEERS
 www.bmaengineers.com



REV	DATE	BY

SIDEWALK IMPROVEMENTS
 CITY OF PASS CHRISTIAN
 PASS CHRISTIAN, MISSISSIPPI
 SCENIC DRIVE

CAD NLG
 ENG BJS
 DATE 12/20/2023
 SCALE SHOWN
 BMA# 3859
 FILE: \3859\CAD\DWG\3859 PLANSET

SHEET



C-621

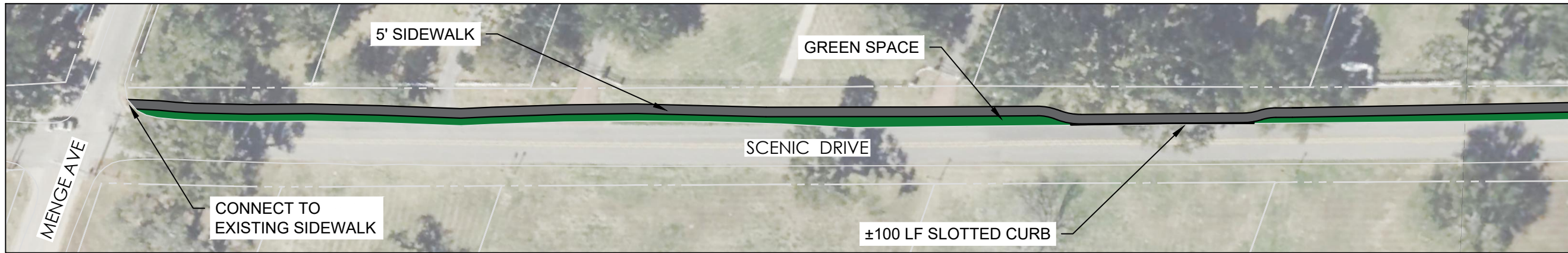
ENGINEER'S OPINION OF PROBABLE COSTS

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

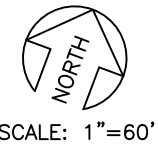
SEGMENT: SCENIC DRIVE
 SEGMENT TERMINI: Menge Ave. to Highway 90
 Segment Length: 1965

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$7,581.35	\$7,581.35
2	CONSTRUCTION LAYOUT	1	LS	\$2,760.20	\$2,760.20
3	EARTHWORK	590	CY	\$20.00	\$11,790.00
4	DRAINAGE PIPE	0	LF	\$125.00	\$0.00
5	DRAINAGE STRUCTURES	0	EA	\$5,000.00	\$0.00
6	CONCRETE SIDEWALK	1,092	SY	\$70.00	\$76,416.67
7	ELEVATED WALKWAY (PILE SUPPORTED)	0	LF	\$550.00	\$0.00
8	SIGNAGE	2	EA	\$1,000.00	\$2,000.00
9	CROSSWALK	1	EA	\$1,800.00	\$1,800.00
10	SLOTTED CURB	200	LF		\$0.00
11	EROSION CONTROL	1,965	LF	\$5.00	\$9,825.00
12	GRASSING	2,183	SY	\$5.00	\$10,916.67
	SUBTOTAL CONSTRUCTION BUDGET =				\$123,089.88
	ROW/ESMT	0	SF	\$10.00	\$0.00
	PRELIMINARY ENGINEERING (10%)				\$12,308.99
	CEI (7.5%)				\$9,231.74
	CONTINGENCY (15%)				\$18,463.48
	TOTAL SEGMENT PROJECT BUDGET				\$163,094.09

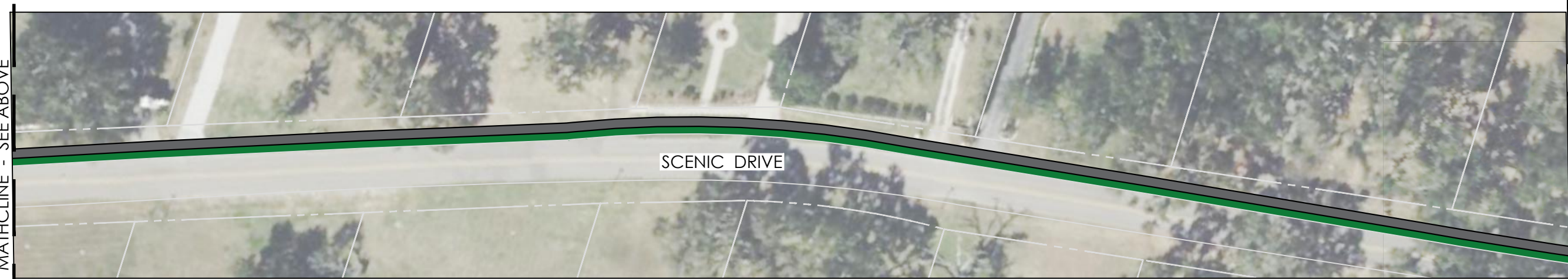
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MATHCLINE - SEE BELOW

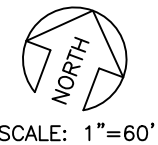


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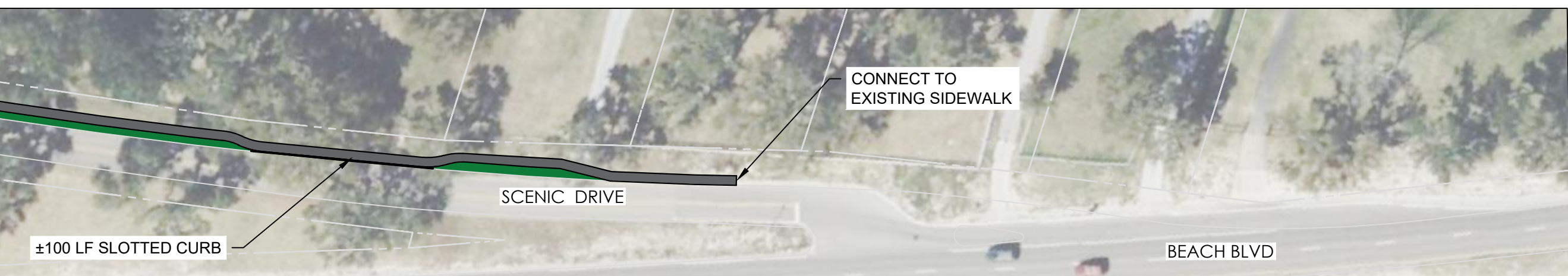


MATHCLINE - SEE ABOVE

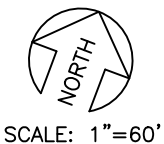
MATHCLINE - SEE BELOW



B



MATHCLINE - SEE ABOVE



C

CITY OF PASS CHRISTIAN
SIDEWALK IMPROVEMENT PROGRAM

NO.	SEGMENT	ESTIMATED COST	CITY MATCH (20%)
1	CEDAR AVENUE (BRILL ST. TO "CURVE" IN NORTH ST.)	\$839,763.81	\$167,952.76
2	ST. LOUIS & EVERETT (EVERETT FROM BARKLEY TO ELLIOT)	\$332,467.00	\$66,493.40
3	ST. LOUIS & EVERETT (CLARENCE-ST. LOUIS TO BARKLEY - ON EVERETT)	\$858,752.96	\$171,750.59
4	NORTH STREET (PIINE AVE. TO CHURCH AVE.)	\$364,437.01	\$72,887.40
5	NORTH STREET (CHURCH AVE. TO DAVIS AVE.)	\$1,136,747.65	\$227,349.53
6	NORTH STREET (DAVIS AVE. TO OAK PARK DR.)	\$491,863.96	\$98,372.79
7	NORTH STREET (OAK PARK DR. TO HURRICANE CIRCLE)	\$169,325.35	\$33,865.07
8	NORTH STREET (HURRICANE CIRCLE TO MENGE AVE.)	\$1,309,678.51	\$261,935.70
9	SECOND STREET (ALGERNON TO LANG AVE.)	\$362,828.17	\$72,565.63
10	SECOND STREET (LANG AVE. TO PARK RIDGE)	\$446,499.42	\$89,299.88
11	SECOND STREET (PARK RIDGE TO SPENCE)	\$313,824.84	\$62,764.97
12	SECOND STREET (SPENCE TO CITY LIMITS)	\$320,233.63	\$64,046.73
13	SCENIC DRIVE (MENGE AVE. TO HWY. 90)	\$163,094.09	\$32,618.82
TOTAL		\$7,109,516.40	\$1,421,903.28