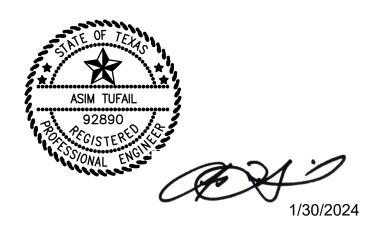
Gulf Breeze PID Engineering Report

Hitchcock, Texas

January 2024



Prepared by:
Blackline Engineering
Texas Registered Firm No. 14051



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Appendix E: PID Internal Improvement Map

Appendix F: Off-Site Improvement Area Map

Appendix G: Engineer's Opinion of Probable Cost

Appendix H: Construction Schedule

1.0 Introduction

Gulf Breeze Public Improvement District ("District") is an existing public improvement district in the City of Hitchcock ("City"), Galveston County consisting of approximately 225 acres, bound by Avenue "C" and FM 2004. Phases 1 through 5 include 701 single-family lots, with 301 lots being 55' in width and another 300 lots being 45' in width. The remaining 100 lots are patio homes. In addition to the lots there will be open space lots, landscape lots and a park. Proposed improvements include water and wastewater utilities, drainage and detention, parks, and streets.

The tracts generally drain from the southwest to the northeast in a sheet flow pattern which contributes stormwater runoff to the Jay Road ditch, and ultimately discharges to the Highland Bayou diversion channel. The site is located partially within Unshaded (outside 500 year flood plain) and Shaded Zone X (500 year flood plain). Roughly 80-85% of the site is located in this Shaded Zone X.

2.0 Public Improvement District

The Gulf Breeze project is subject to the Agreement between the City of Hitchcock and Four Windy Hill Investments, LLC dated April 18th 2022, included as Appendix K. The PID consists of Sections 1 - 5 and the Patio Homes. The PID authorized improvements will be financed by PID Bond Issue.

The PID will include 300 single-family lots (45' wide), 301 single-family lots (55' wide), 100 patio homes, 1 lift station and Detention Pond 1, 2 & 3. Improvements will also include street, drainage, water and wastewater improvements.

3.0 Zoning

The Gulf Breeze Project is located within the city limits of the City of Hitchcock and is subject to the rules and regulations of the Single Family Residential District.

4.0 Development Improvements

4.1 Streets

FM 2004 will be largely accessible from a new roadway connection to Gulf Breeze to the south. As a result of the Project's development, it is expected that FM 2004 will need a few enhancements built in stages to meet the increase in traffic. To enable access and circulation within the development, a number of streets will be built, beginning with an entering boulevard, reducing to a collector street, and ultimately diverging into a number of local residential streets. These streets will be built with concrete curbs in compliance with City requirements.

4.2 Water and Wastewater Utilities

The Project will construct water distribution lines to service the development in accordance with city requirements. The water lines will range in size from 6 to 12 inches in diameter and be PVC material. All lines will be located within public rights-of-way or dedicated easements. Fire Hydrants and water valves will be located at intervals in accordance with city requirements.

Water service will be provided via an existing water line connection along FM 2004 from the City of Hitchcock. A waterline extension from the site along FM 2004 to the existing connection will need to be constructed.

The Project will construct wastewater collection lines to service the development in accordance with city requirements. The sanitary sewer lines will range in size from 8 to 12 inches in diameter and be PVC material. Residential leads are proposed at 6 inches. The minimum proposed slope of all gravity sewer lines will be no less than 0.33%. A lift station for the tract will be required. Lift stations and force mains will be constructed to maintain minimum cover and slope across the development.

Wastewater service will be provided via an existing sanitary sewer line connection along FM 2004 from the City of Hitchcock. A sanitary sewer force main will connect the site to a gravity line along FM 2004 to the existing connection. This will need to be constructed along with an off-site lift station along FM 2004.

4.3 Drainage/Detention

Gulf Breeze is located within the Highland Bayou watershed. The site generally drains from the southwest to the north and northeast in a sheet show pattern which contributes to the stormwater runoff to the Jay Road ditch. The Jay Road ditch ultimately discharges into the Highland Bayou diversion channel. Pape-Dawson developed a preliminary drainage model of the Gulf Breeze project site using Atlas 14 100-yr rainfall intensities to determine the hydrology and runoff rates for the region and utilized 2018 LiDAR to analyze the hydraulics in the area. This was done because of the given prevalent concerns about the limited existing capacity of the Jay Road ditch. This

drainage model was run under existing conditions, as well as an iterative proposed conditions (post site development) state to schematically analyze the amount of detention that would be necessary to develop the tract and prevent any adverse impacts upstream, downstream, or adjacent to the property. This Preliminary analysis has revealed that a detention storage rate of approximately 1.05 acre-feet per acre of development will be necessary to mitigate for the increased runoff and sheet flow storage volume lost due to proposed development of the site. The attached preliminary land plan for the site provides over 57 acres of interconnected detention and drainage areas to provide the area necessary for this storage volume. In the current proposed condition, adjacent properties should experience a minor reduction in sheet flow flooding across their tracts, since the site would capture over 12-inches of rainfall that occurs within the property and prevent it from cascading downstream.

Detention ponds are adequately sized to hold storm runoff at a rate of approximately 1.05 acre-feet per acre. No floodplain mitigation is required for this site, as it is not located within the 100-year floodplain. In addition to the detention mitigation, the project will provide an internal storm drainage system comprised of 24-inch and larger storm drainage pipes, concrete curb inlets, concrete storm drainage manholes, and various interceptor and outfall structures that will be installed within the proposed street right of ways or adjacent easements as shown in Figure 3. These internal storm drainage systems will discharge via various outfalls into the detention lakes proposed within the project, that will then attenuate the stormwater runoff rate from the side and allow it to drain to the north and ultimately to the Jay Road ditch and diversion channel.

4.4 Park System

The project will include one large central park and several smaller green spaces for community use. Trails and/or sidewalks will be utilized for access to the park system. Another location within the site will be an existing area of lakes/trees to remain. Appendix C shows all proposed parks and green space within the District boundary.

4.5 Off-Site Improvements

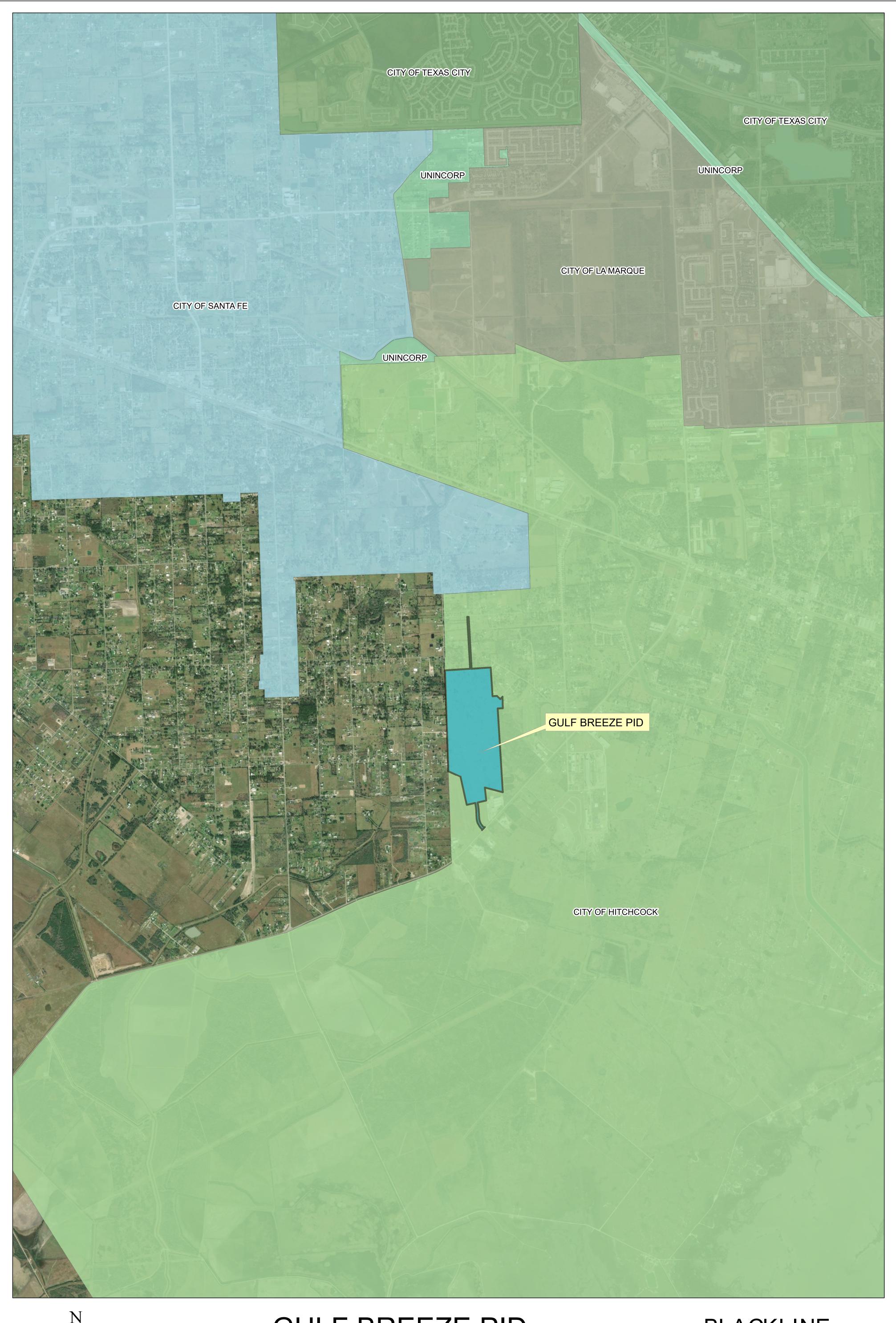
Several improvements in the project are classified as major improvements to the site impacting the PID (Appendix G). These include the entry road from FM 2004 to the round-a-bout, off-site utility connections including an off-site lift station with the City of Hitchcock, the North-South Ditch and Jay Road Ditch improvements, and off-site street improvements. All improvements will be amongst the first construction activities for the site and are critical for this projects development except for a traffic signal installation which will be required once complete lot build out has occured.

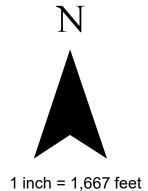
5.0 Erosion Control

The Gulf Breeze Project will use construction techniques and standards in compliance with City of Hitchcock codes and manuals. Typical erosion control measures will be used including silt fence, stabilized construction entrances, inlet protection barriers, rock dams, hydro mulching, and stabilized rock berms.

6.0 Funding Sources

Authorized improvements are funded by a combination of developer and builder equity, development loan, and PID bonds. An Engineer's Opinion of Probable Cost (OPC) is included in Appendix G with descriptions of each authorized improvement. Appendix Η contains a construction schedule for the authorized improvements.

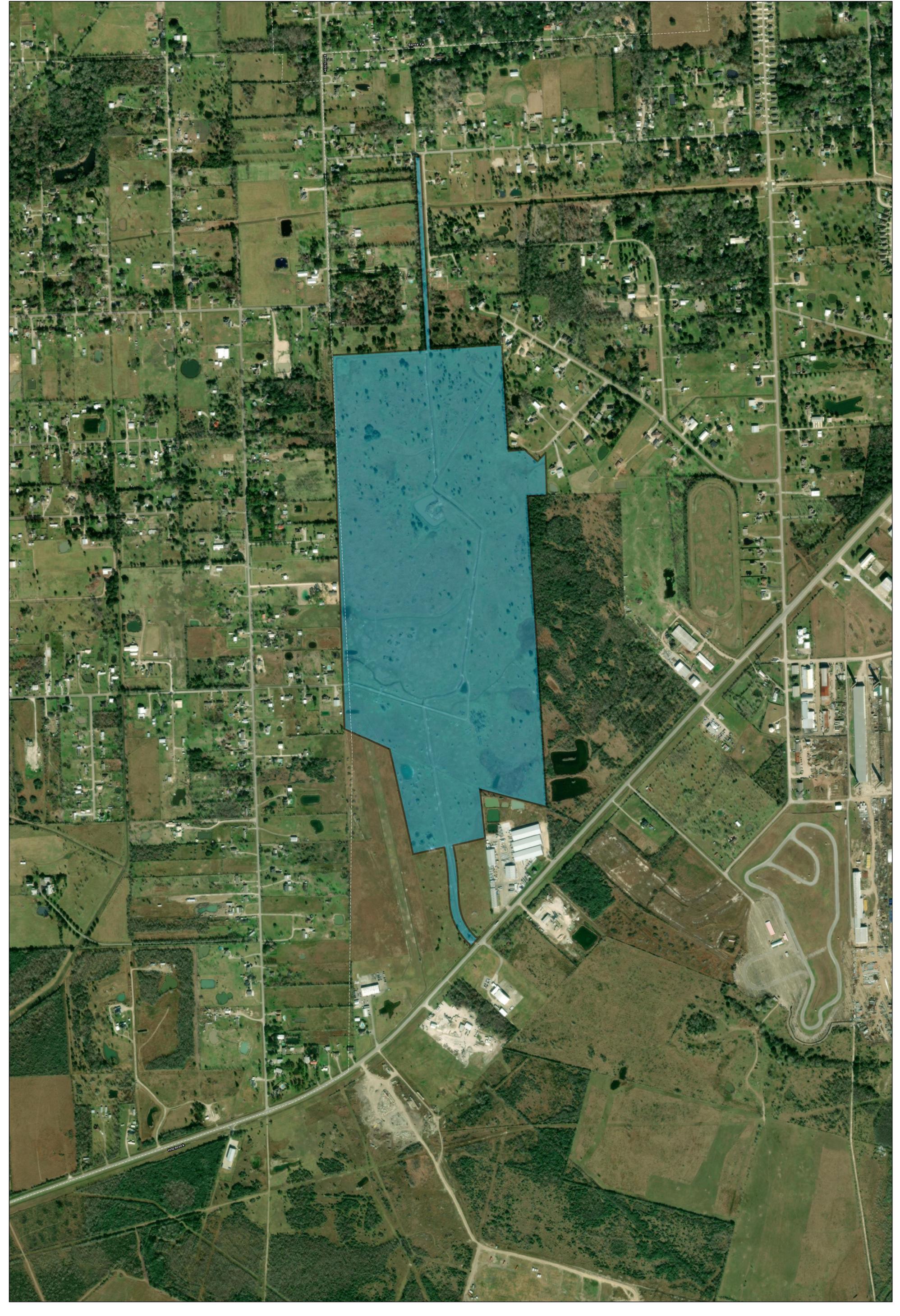




GULF BREEZE PID
VICINITY MAP
APPENDIX A

BLACKLINE ENGINEERING

1616 S. VOSS RD, SUITE 300 HOUSTON, TX 77057 (832)-431-5959 WWW.BLACKLINE-ENG.COM FIRM No. 14051

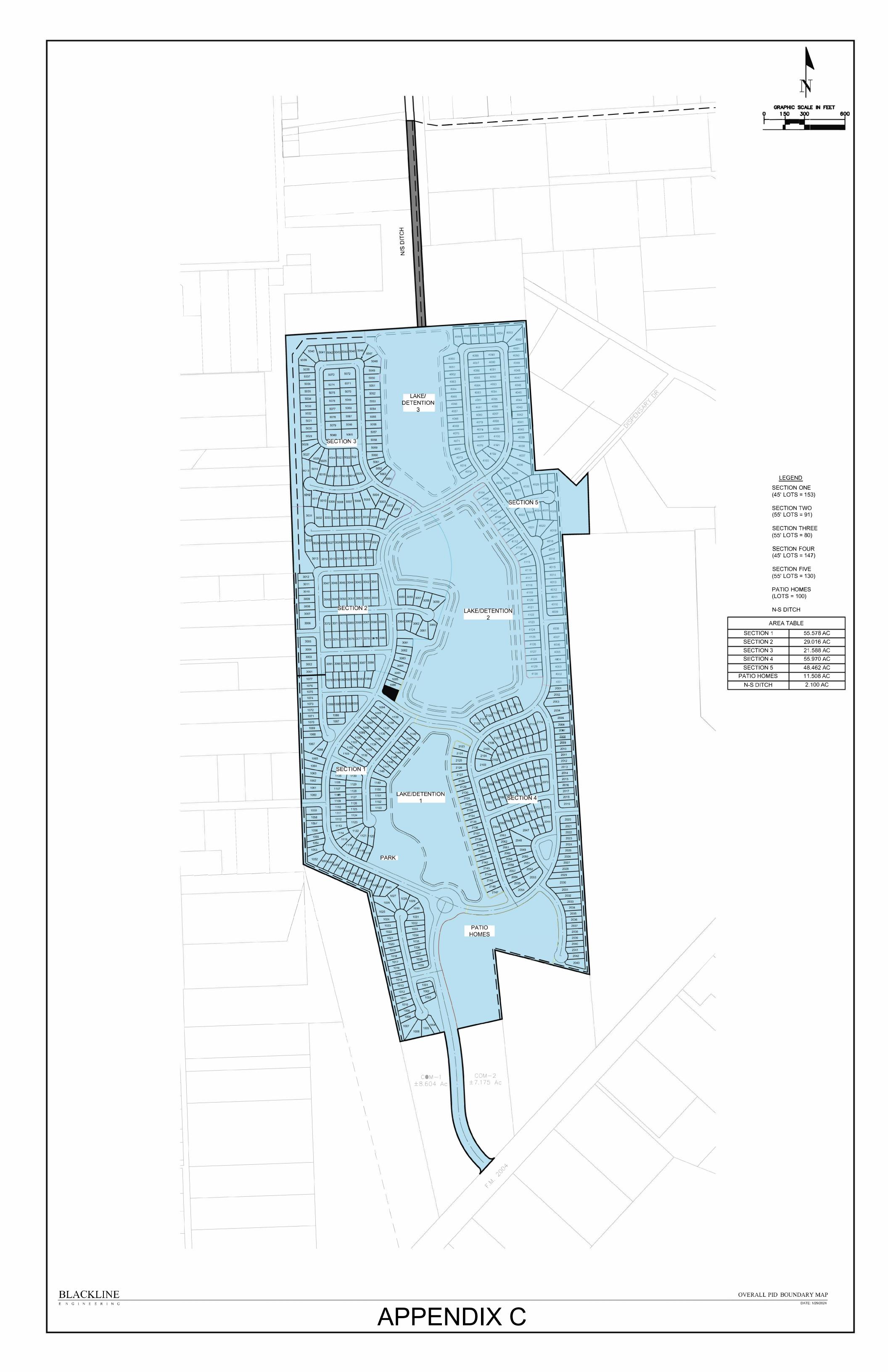




GULF BREEZE PID
BOUNDARY MAP
APPENDIX B

BLACKLINE ENGINEERING

1616 S. VOSS RD, SUITE 300 HOUSTON, TX 77057 (832)-431-5959 WWW.BLACKLINE-ENG.COM FIRM No. 14051



APPENDIX D

METES AND BOUNDS DESCRIPTION
224.892 ACRES OUT OF THE
LEMUEL CRAWFORD SURVEY, ABSTRACT No. 48
LEMUEL CRAWFORD SURVEY, ABSTRACT No. 47
DANIEL BUCKLEY SURVEY, ABSTRACT No. 43
GALVESTON COUNTY, TEXAS

A tract or parcel of land containing 224.892 acres (9,796,278 square feet) out of the Lemuel Crawford Survey, Abstract No. 48, the Lemuel Crawford Survey, Abstract No. 47, and the Daniel Buckley Survey, Abstract No. 43 Galveston County, Texas, being all of the called 202.541 acre tract conveyed to Shannon Sharp in deed recorded under Clerk's File Number (C.F. No.) 2000058142 of the Official Public Records of Real Property of Galveston County (O.P.R.R.P.G.C.), all of the called 2.00 acre tract described in deed to Shannon Sharp recorded under C.F. No. 2004075055 of the O.P.R.R.P.G.C., all of the called 2030 foot long by 60 foot wide strip of land described in deed to Shannon Sharp recorded under C.F. No. 2001033372 of the O.P.R.R.P.G.C., and a portion of the called 33.5634 acre tract described in deed to Shannon Sharp recorded under C.F. No. 2010060664 of the O.P.R.R.P.G.C., said 224.891 acres being more particularly described by metes and bounds as follows: (The basis of bearing for this survey is the Texas State Plane Coordinate System, North American Datum 1983, South Central Zone (4204));

BEGINNING at a concrete monument found at the northwest corner of "Tract II" as recorded under C.F. No. 2011033494 of the O.P.R.R.P.G.C., the north corner of a called 5.000 acre tract as recorded under C.F. No. 992519 of the O.P.R.R.P.G.C., the southwest corner of said 202.541 acres, being in the east line of a called 2.765 acre tract as recorded under C.F. No. 2011030614 of the O.P.R.R.P.G.C., being a southwesterly corner and POINT OF BEGINNING of the herein described tract, having a coordinate value of X=3,223,315.06 (E), Y=13,689,086.26 (N);

THENCE NORTH 01 degrees 55 minutes 43 seconds WEST, 3932.74 feet along the western boundary of said 202.541 acres and the eastern boundary of a series of smaller tracts as recorded in C.F. Nos. 2011030614, 2021048429, 2008021506, 001-96-1333, 2021039222, 2021054447, 2014068462, 2019019546, 2015022290, 2007058614, 2004045983, 2012055144, 2017002315, and 2002044781 respectively to a concrete monument found for the northwest corner of said 202.541 acres, for the southwest corner of a tract described as Part of Lot 3 Share E of the Taquard Partition in C.F. No. 2004021904 of the O.P.R.R.P.G.C., in the east line of a tract described in C.F. No. 2002044781 of the O.P.R.R.P.G.C., and being the most westerly northwest corner of the herein described tract;

THENCE NORTH 86 degrees 30 minutes 43 seconds EAST, 983.90 feet along the northern boundary of said 202.541 acres and the southern boundary of said Part of Lot 3 Share E of the Taquard Partition to a concrete monument found for the southeast corner of said Part of Lot 3 Share E of the Taquard Partition, the southwest corner of said 2030' x 60' strip of land, and being an interior corner of the herein described tract:

THENCE NORTH 03 degrees 12 minutes 51 seconds WEST, 2030.20 feet along the western boundary of said 2030' x 60' strip of land and the eastern boundary of said Part of Lot 3 Share E of the Taquard Partition as well as the eastern boundary of a series of smaller tracts as recorded in C.F. Nos. 2004021904, 2013053334, 2004035166, 2004035166, 2001058415, 20000058645, 9109226, and 2018075109 respectively to a concrete monument found in the south right-of-way of Jay Road (60' ROW) for the northwest corner of said 2030' x 60' strip of land, the northeast corner of a called 0.3447 acre tract as recorded under C.F. No. 2018075109 of the O.P.R.R.P.G.C., and being the most northerly northwest corner of the herein described tract;

THENCE NORTH 86 degrees 28 minutes 49 seconds EAST, 59.78 feet along the southern R.O.W. of Jay Road to a 5/8" iron rod found for the northeast corner of said 2030' x 60' strip of land, the northwest corner of a called 75' wide strip of land tract as recorded under C.F. No. 2007051851 of the O.P.R.R.P.G.C., and being the most northerly northeast corner of the herein described tract;

THENCE SOUTH 03 degrees 12 minutes 51 seconds WEST, 2030.06 feet along said 75' wide strip of land to a ½" iron rod found in the north line of said 202.541 acres, for the southeast corner of said 2030' x 60' strip of land, the southwest corner of a called "Tract I" as recorded under C.F. No. 9954732 of the O.P.R.R.P.G.C., and being an interior corner of the herein described tract;

THENCE NORTH 86 degrees 28 minutes 02 seconds EAST, 746.03 feet along the south line of said "Tract I" to a 2" iron pipe found for the northeast corner of said 202.541 acres, the southeast corner of said "Tract I", in the west line of a called 1.489 acre tract as recorded in C.F. No. 2019053162 of the O.P.R.R.P.G.C., and being a northeasterly corner of the herein described tract;

THENCE SOUTH 03 degrees 33 minutes 18 seconds EAST, 117.09 feet along the east line of said 202.541 acres and the west line of a series of smaller tracts as recorded in C.F. Nos. 2019053162, 2021030542, and 20000035779 respectively to a 1" iron pipe found for the southwest corner of a tract described in C.F. No. 20000035779 of the O.P.R.R.P.G.C., and being a northeasterly corner of the herein described tract;

THENCE NORTH 85 degrees 37 minutes 15 seconds EAST, 170.78 feet along a northern line of said 202.541 acres to a 1 1/2" iron pipe found for the northwest corner of said 2.00 acres, and being a northeasterly corner of the herein described tract;

THENCE SOUTH 47 degrees 17 minutes 44 seconds EAST, 182.07 feet along the north line of said 2.00 acres to a point for the most southerly corner Dispensary Drive (60' R.O.W.), and being a northeasterly corner of the herein described tract;

THENCE NORTH 42 degrees 53 minutes 22 seconds EAST, 124.78 feet along the north line of said 2.00 acres to a 5/8" iron rod found for the northwest corner of a called 2.476 acre tract described in C.F. No. 2019037015 of the O.P.R.R.P.G.C., and being the most easterly northeast corner of the herein described tract;

THENCE SOUTH 01 degrees 40 minutes 51 seconds EAST, 451.16 feet along the east line of said 2.00 acres and the west line of said 2.476 acres to a 1/2" iron rod found in the north line of a called 711.55 acre tract described in C.F. No. 9918863 of the O.P.R.R.P.G.C., and being an easterly corner of the herein described tract;

THENCE SOUTH 88 degrees 29 minutes 20 seconds WEST, 201.17 feet along the south line of said 2.00 acres and the north line of said 711.55 acres to a 1 1/2" iron pipe found in the east line of said 202.541 acres, for the southwest corner of said 2.00 acres, and being an easterly corner of the herein described tract;

THENCE SOUTH 03 degrees 31 minutes 50 seconds EAST, 3273.65 feet along the east line of said 202.541 acres and the west line of said 711.55 acres to a 2" iron pipe found for the southeast corner of said 202.541 acres, for the northeast corner of a called 5.6189 acre tract described in C.F. No. 2017017333 of the O.P.R.R.P.G.C, and being a southeasterly corner of the herein described tract;

THENCE NORTH 75 degrees 26 minutes 42 seconds WEST, 725.96 feet along the south line of said 202.541 acres and the north line of said 5.6189 acres and the north lines of a 4.42 acre tract and a 4.54

acre tract as described in C.F. No. 2017050216 of the O.P.R.R.P.G.C to a 1 1/2" iron pipe found for the northwest corner of said 4.54 acre tract, for the northeast corner of said 33.5634 acres, and being a southerly corner of the herein described tract;

THENCE SOUTH 05 degrees 56 minutes 34 seconds EAST, 515.55 feet along the east line of said 33.5634 acres and the west line of said 4.54 acres to a 5/8" iron rod set with plastic cap for the southerly corner of the herein described tract:

THENCE over and across said 33.5634 acres the following courses and distances:

SOUTH 77 degrees 30 minutes 24 seconds WEST, 339.31 feet to a 5/8" iron rod set with plastic cap;

SOUTHEASTERLY along a curve to the right through a central angle of 08 degrees 12 minutes 04 seconds to a 5/8" iron rod set with plastic cap for an easterly corner of the herein described tract, said curve having a radius of 2550.00 feet, an arc length of 365.00 feet and a long chord bearing SOUTH 06 degrees 59 minutes 15 seconds EAST, 364.69 feet;

SOUTH 02 degrees 53 minutes 13 seconds EAST, 223.09 feet to a 5/8" iron rod set with plastic cap;

SOUTHEASTERLY along a curve to the left through a central angle of 43 degrees 54 minutes 01 seconds to a 5/8" iron rod set with plastic cap for an easterly corner of the herein described tract, said curve having a radius of 550.00 feet, an arc length of 421.41 feet and a long chord bearing SOUTH 24 degrees 50 minutes 13 seconds EAST, 411.18 feet;

SOUTHEASTERLY along a curve to the left through a central angle of 84 degrees 27 minutes 58 seconds to a 5/8" iron rod set with plastic cap in the northwest right of way of F.M. 2004 as recorded in Volume 1675, Page 34 of the O.P.R.R.P.G.C., and being a southeasterly corner of the herein described tract, said curve having a radius of 35.00 feet, an arc length of 51.60 feet and a long chord bearing SOUTH 89 degrees 01 minutes 02 seconds EAST, 47.05 feet;

SOUTH 42 degrees 40 minutes 00 seconds WEST, 162.29 feet along the northwest R.O.W. of F.M 2004 to a 5/8" iron rod set with plastic cap;

NORTHWESTERLY along a curve to the left through a central angle of 83 degrees 01 minutes 35 seconds to a 5/8" iron rod set with plastic cap for a westerly corner of the herein described tract, said curve having a radius of 35.00 feet, an arc length of 50.72 feet and a long chord bearing NORTH 05 degrees 25 minutes 00 seconds WEST, 46.40 feet;

NORTHWESTERLY along a curve to the right through a central angle of 44 degrees 02 minutes 17 seconds to a 5/8" iron rod set with plastic cap for a westerly corner of the herein described tract, said curve having a radius of 650.00 feet, an arc length of 499.60 feet and a long chord bearing NORTH 24 degrees 54 minutes 22 seconds WEST, 487.39 feet;

NORTH 02 degrees 53 minutes 13 seconds WEST, 223.09 feet to a 5/8" iron rod set with plastic cap at a westerly corner of the herein described tract;

NORTHWESTERLY along a curve to the left through a central angle of 08 degrees 08 minutes 39 seconds to a 5/8" iron rod set with plastic cap for a westerly corner of the herein described Page 3 of 4

tract, said curve having a radius of 2450.00 feet, an arc length of 348.24 feet and a long chord bearing NORTH 06 degrees 57 minutes 31 seconds WEST, 347.95 feet;

SOUTH 77 degrees 30 minutes 24 seconds WEST, 336.48 feet to a 5/8" iron rod set with plastic cap in the west line of said 33.5634 acres and the east line of said "Tract II";

THENCE NORTH 12 degrees 30 minutes 25 seconds WEST, 1130.35 feet along the east line of said "Tract II" to a 1/2" iron rod found in the south line of said 202.541 acres, for the northwest corner of said 33.5634 acres and northeast corner of said "Tract II", and being an interior corner of the herein described tract;

THENCE NORTH 65 degrees 54 minutes 37 seconds WEST, 519.74 feet along the north line of said "Tract II", to the POINT OF BEGINNING of the herein described tract, containing 224.892 acres (9,796,278 square feet) of land.

Joel Robert Bilyeu

Registered Professional Land Surveyor

Texas Registration No. 6106

May 31, 2023

68200-417-0-DEV

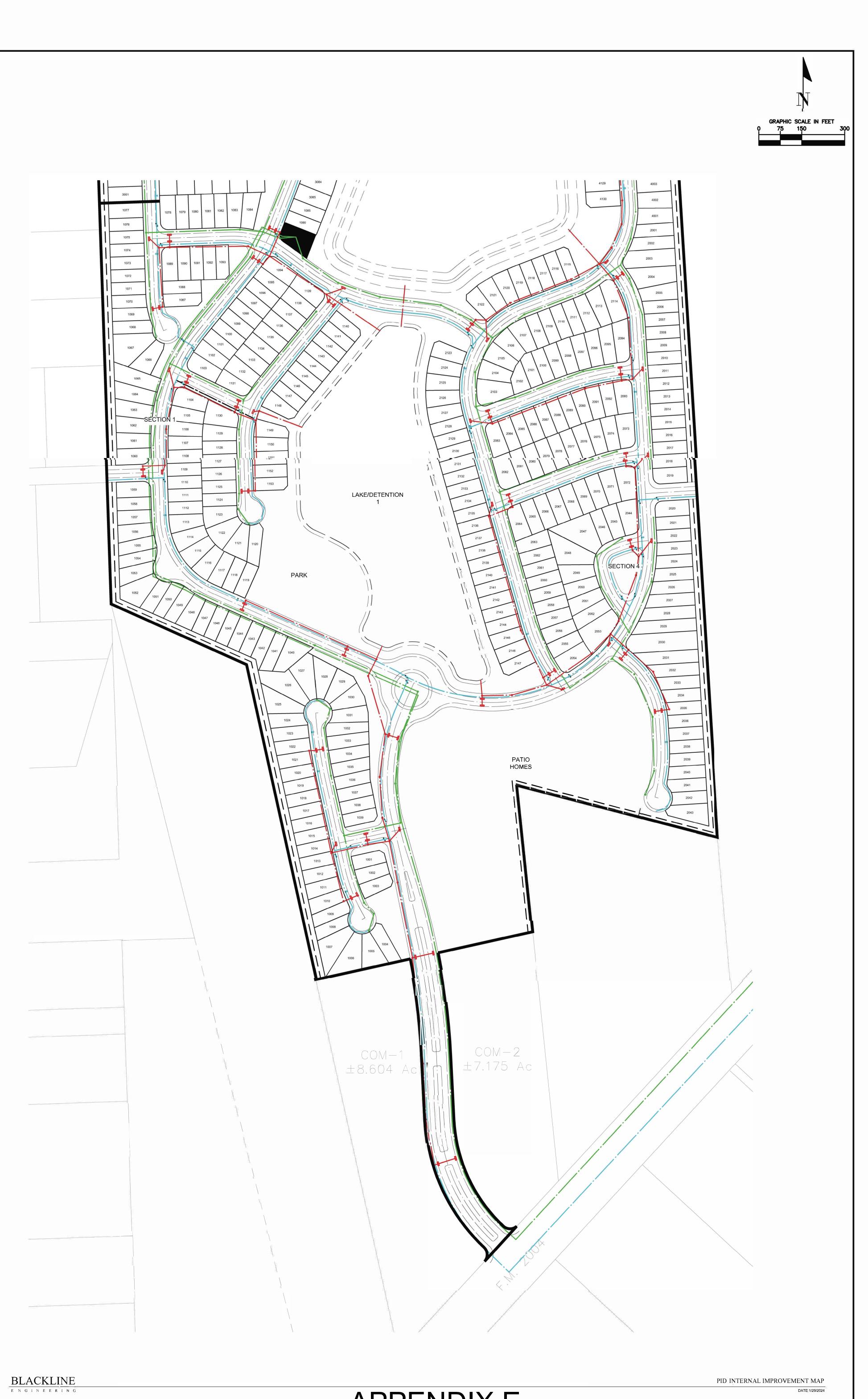
S&V Surveying, Inc.

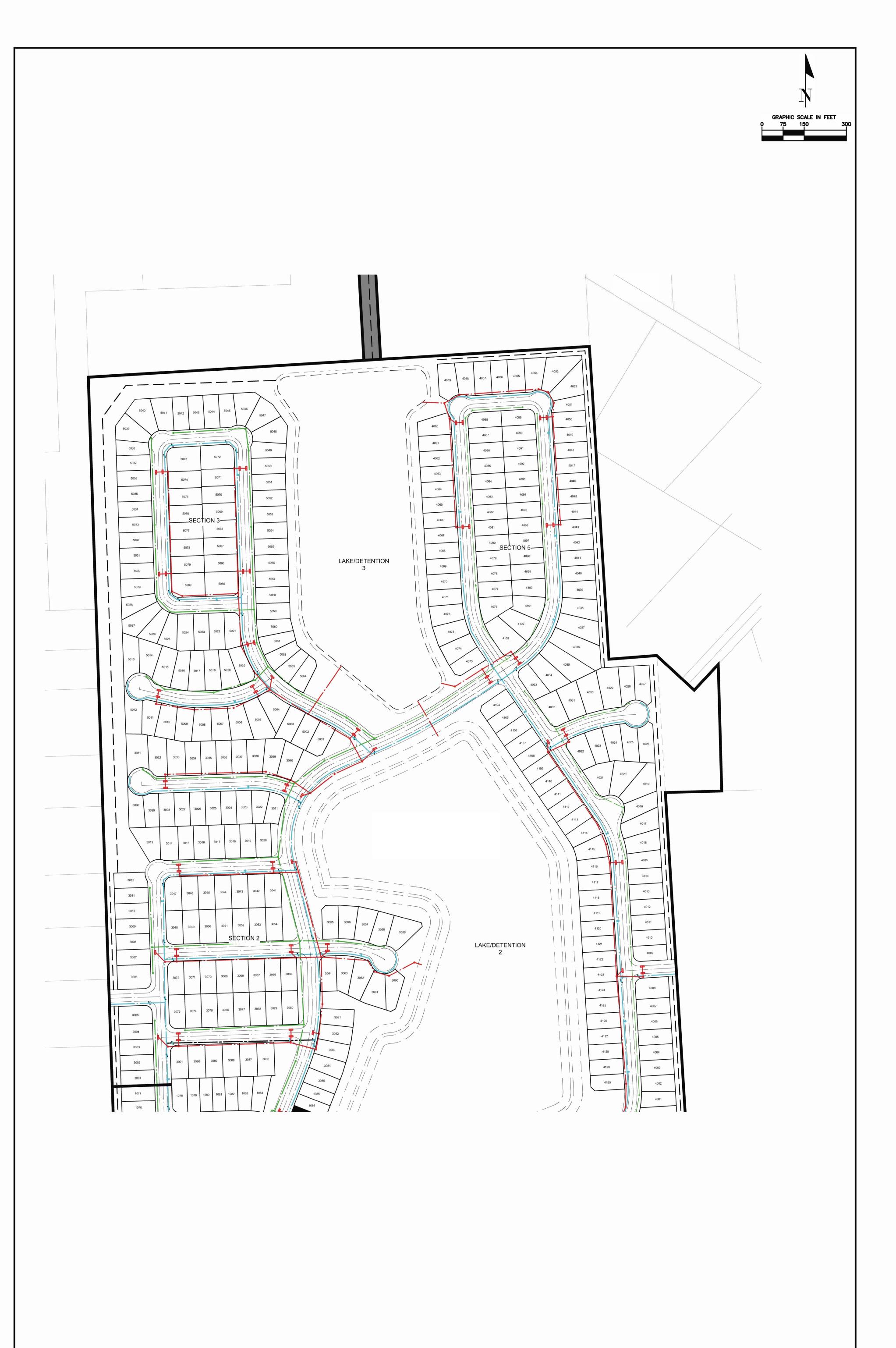
T.B.P.E.L.S. Registration No. 120247-00

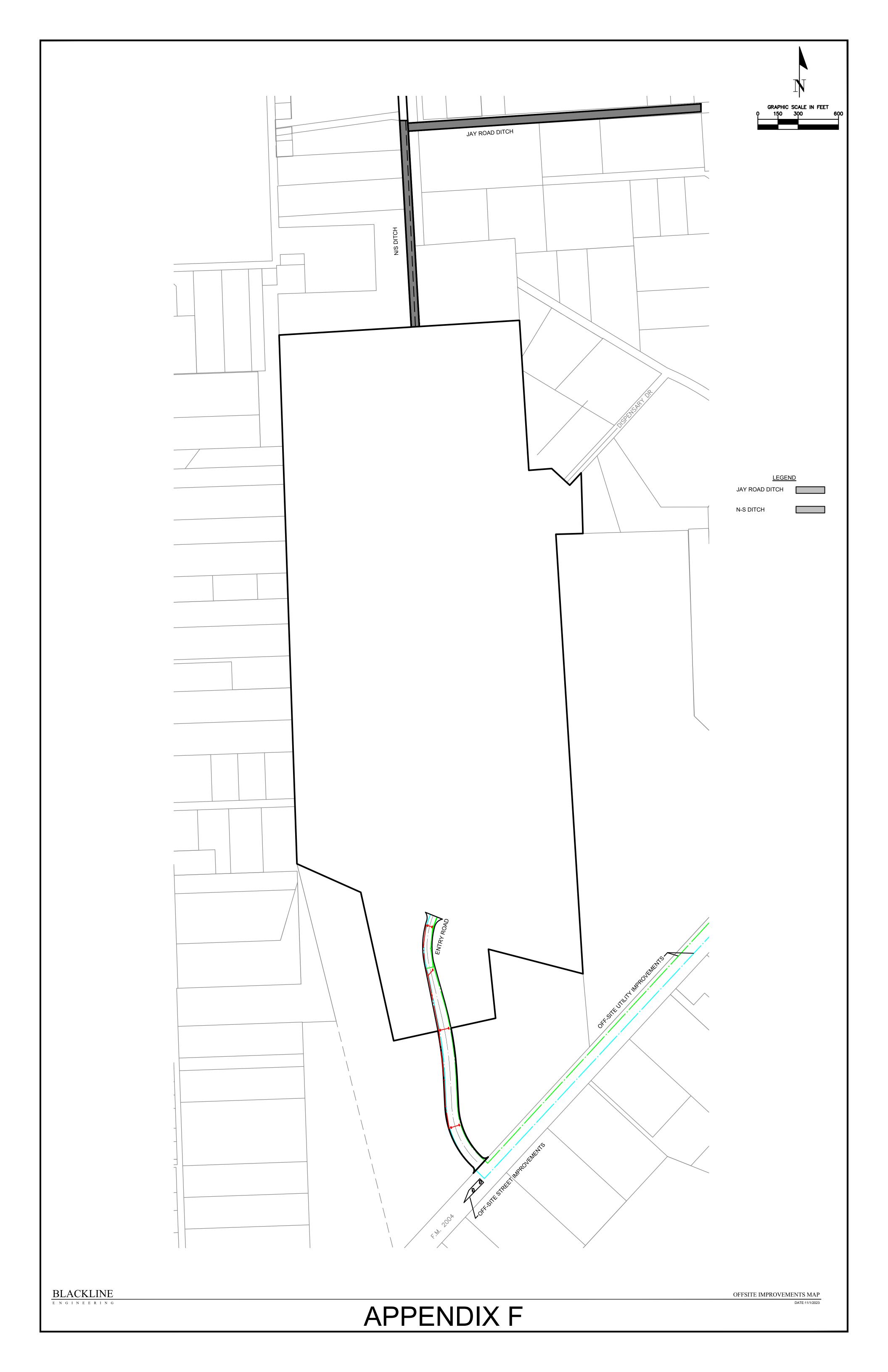
20111 Krahn

Spring, Texas 77388

Ph: 281.353.2570







APPENDIX G



CONSTRUCTION COST SUMMARY

1/31/2024

PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT

ESTIMATED TOTAL

STRUCTION COSTS		
STRUCTION COSTS		
paration	\$	131,555
Vater Pollution Prevention System	\$	253,975
Distribution System	\$	1,708,406
rater Collection System & Lift Station	\$	2,943,780
rainage System	\$	3,420,197
on Ponds	\$	5,238,660
ction Contingencies (20%)	\$	2,739,315
Subtotal Utilities	\$	16,435,888
paration	\$	128,465
	\$	7,643,972
ction Contingencies (20%)	\$	1,554,487
Subtotal Streets	\$	9,326,924
APE .		
andscape	\$	1,150,000
Subtotal Parks/Landscape	\$	1,150,000
TOTAL CONSTRUCTION COST	\$	26,912,812
INEEDING INSPECTION SUBVEYING AN	D MISCEL	I ANEOUS EEES
INCERNO, INCLEASED, SORVETING AND	DIVIIOCEL	<u>.LANLOUS I LLU</u>
ING (BLACKLINE ENGINEERING, LLC)		
Design	\$	1,644,000
Design	\$	933,000
Subtotal Civil Engineering	\$	2,577,000
INSPECTION		
Representation-Utilities	\$	411,000
	eparation action Contingencies (20%) Subtotal Streets APE andscape Subtotal Parks/Landscape TOTAL CONSTRUCTION COST SINEERING, INSPECTION, SURVEYING AND ING (BLACKLINE ENGINEERING, LLC) Design Design Subtotal Civil Engineering INSPECTION	Vater Pollution Prevention System Sistribution System Vater Collection System & Lift Station Prainage System Sinction Contingencies (20%) Subtotal Utilities Subtotal Streets APE andscape Subtotal Parks/Landscape Subtotal Parks/Landscape \$ TOTAL CONSTRUCTION COST \$ SINEERING, INSPECTION, SURVEYING AND MISCEL ING (BLACKLINE ENGINEERING, LLC) Design Subtotal Civil Engineering \$ INSPECTION





PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT

ESTIMATED TOTAL

2	Project Representation-Paving	\$ 233,500
	Subtotal Construction Inspection	\$ 644,500
SURVEY	'ING	
1	Land Title Survey	\$ 70,500
2	Topographic Survey	\$ 87,000
3	Utility Control Staking	\$ 25,000
4	Paving Control Staking	\$ 25,000
5	As-Built Survey	\$ 50,000
6	Detention Pond As-Built Survey	\$ 30,000
7	Lot As-Built Survey	\$ 10,500
8	Lot Staking	\$ 56,000
	Subtotal Surveying	\$ 354,000
GEOTE	CHNICAL & MATERIALS TESTING	
1	Soils Report	\$ 47,190
2	Utility & Detention Materials Testing	\$ 247,000
3	Paving Materials Testing	\$ 140,000
	Subtotal Materials Testing	\$ 434,190
PLATTIN	NG	
1	Master Plan Preparation	\$ 45,000
2	Calc Map	\$ 28,000
3	Preliminary Plat Preparation	\$ 45,000
4	Final Plat Submission & Approval	\$ 22,000
5	Recordation Fees & Expenses	\$ 25,000
	Subtotal Platting	\$ 165,000
WETLAN	NDS	
1	Wetlands Delineation	\$ 44,000
2	Jurisdictional Determination Process	\$ 8,800
	Subtotal Wetlands	\$ 52,800



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT

ESTIMATED TOTAL

MISCELLANEOUS FEES

_		
1	County and City Submittal Fees	\$ 15,000
2	Advertisement	\$ 15,000
3	Plan Copies and Deliveries	\$ 15,000
4	Drainage Study (Pape Dawson)	\$ 100,000
5	Traffic Impact Analysis	\$ 50,000
6	PID Creation Report	\$ 50,000
	Subtotal Miscellaneous Fees	\$ 245,000
TOTAL	ENGINEERING, INSPECTION, SURVEYING AND MISCELLANEOUS FEES	\$ 4,472,490
	TOTAL ESTIMATED COST	\$ 31,385,302

NOTES

- (1) The quantities in this preliminary cost estimate were obtained from the Preliminary Landplan and are subject to change.
- (2) This estimate does not include CenterPoint Energy Fees.
- (3) This estimate does not include cost related to driveways.
- (4) This estimate assumes 5 sections.
- (5) This estimate does not include cost associated with relocation and/or removal of existing public and/or private utilities.
- (6) This estimate does not include cost for off-site utility easement acquisition.
- (7) This estimate assumes all fill is placed on site.
- (8) This estimate assumes no traffic signal lights will be required.
- (9) This estimate assume the detention rate provided by Pape Dawson is sufficient, and is subject to change based on result of final H&H report.
- (10) This estimate assumes wet/amenity ponds for all proposed detention basins.
- (11) This estimate assumes that only the portion of Jay Road ditch between N-S Ditch and Blimp Base Road will require improvement.
- (12) This estimate does not include any improvements to or downstream of Blimp Base Road Crossing (H&H report required for further analysis).
- (13) This estimate assumes the 36" outfall pipe within N-S ditch ROW proposed by Pape Dawson will be sufficient (H&H report required for further analysis).
- (14) This estimate assumes the current land plan proposed by Pape Dawson meets all local platting and subdivision criteria.



1/31/2024

PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST	 T TOTAL COST
SITE PRI	EPARATION- UTILITIES				
1.	Mobilization	EA	5	\$ 10,000.00	\$ 50,000
2.	Detention Pond Mowing & Stripping	AC	35.30	\$ 1,500.00	\$ 52,950
3.	ROW Mowing & Stripping- 1/2 for Utilities	AC	19.07	\$ 1,500.00	\$ 28,605
	\$ 131,555				

1/24/2024

PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM	DESCRIPTION	LINUT	EST	EST UNIT				T TOTAL COST	
NO.	DESCRIPTION	UNIT	QTY		C051		COSI		
STORM V	VATER POLLUTION PREVENTION PLAN								
1.	Prepare & Submit N.O.I.s & N.O.T.s, SWPPP For Contractor and Developer and posting of Material		_	•	4 000 00		5 000		
	on job Site	LS	5	\$	1,000.00	\$	5,000		
2.	TPDES Permitting Compliance	LS	5	\$	5,000.00	\$	25,000		
3.									
	Perform weekly inspections during the contract period, as required by the current TPDES permit	МО	75	\$	125.00	\$	9,375		
4.	Stabilized construction access (60% of unit cost for furnish and installation and 40% of unit cost for		_						
	removal)	EA	5	\$	5,000.00	\$	25,000		
5.	Refresh stabilized construction access	EA	5	\$	500.00	\$	2,500		
6.	Furnish, install and remove filter fabric fencing	LF	47,900	\$	1.50	\$	71,850		
7.	Furnish, install and remove concrete truck washout	EA	5	\$	3,000.00	\$	15,000		
8.	Street cleaning and maintenance of all temporary controls through the contract period	HR	750	\$	33.00	\$	24,750		
9.	Maintenance of stabilized areas	HR	300	\$	25.00	\$	7,500		
10.	Inlet Protection Barrier (All Phases), Complete in place	EΑ	136	\$	500.00	\$	68,000		
			. 50	-		<u> </u>			
		<u>TC</u>	TAL EST	IMAT	ED SWPPP	\$	253,975		



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST				T TOTAL COST
WATER I	DISTRIBUTION SYSTEM							
1.	6" C900 PVC CL 150 Waterline (incl. fittings) (incl. spreading spoils on lots)	LF	4,845	\$	30.00		\$	145,350
2.	8" C900 PVC CL 150 Waterline (incl. fittings) (incl. spreading spoils on lots)	LF	16,440	\$	40.00		\$	657,600
3.	12" C900 PVC CL 150 Waterline (incl. fittings) (incl. spreading spoils on lots)	LF	6,640	\$	65.00		\$	431,600
4.	6" Gate Valve & Box	EA	12	\$	1,200.00		\$	14,400
5.	8" Gate Valve & Box	EA	49	\$	1,500.00		\$	73,500
6.	12" Gate Valve & Box	EA	22	\$	4,000.00	-	\$	88,000
7.	Fire Hydrants Assembly (All Depths) (Including FH lead, 6" tee and 6" Gate Valve & Box)	EA	46	\$	5,000.00	-	\$	230,000
8.	2" Blow-off valve & box	EA	9	\$	450.00		\$	4,050
9.	6" Plug & Clamp	EA	20	\$	200.00		\$	4,000
10.	OSHA Trench Safety System (to be used only with authorization from the engineer)	LF	27,925	\$	1.00		\$	27,925
11.	Extra Cast Iron Fittings (to be used only with authorization from the Engineer)	TON	3	\$	2,000.00		\$	6,981
12.	Extra Bank Sand (to be used only with authorization from the Engineer)	CY	1000	\$	25.00		\$	25,000
	TOTAL ESTIMATED	WATER	R DISTRIE	BUTIC	N SYSTEM	<u>-</u>	\$	1,708,406



1/31/202/

PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST		T TOTAL COST
<u> </u>	DESCRIPTION	ONIT	QII	0031	<u> </u>	
WASTEV	VATER COLLECTION SYSTEM & LIFT STATION					
1.	6" Sanitary Sewer Lead (including wyes and fittings, long and short sides) (incl. spreading spoils on lots)	EA	381	\$ 1,500.00	_\$	571,500
2.	8" SDR 26 PVC Sanitary Sewer Pipe (incl. spreading spoils on lots)	LF	22,550	\$ 35.00	_\$	789,250
3.	12" SDR 26 PVC Sanitary Sewer Pipe (incl. spreading spoils on lots)	LF	3,605	\$ 72.00	\$	259,560
4.	Sanitary Sewer Manhole	EA	152	\$ 2,200.00	\$	334,400
5.	OSHA Trench Safety System (to be used only with authorization from the engineer)	LF	26,155	\$ 1.00	\$	26,155
6.	Extra Cement Stabilized Sand (to be used only with authorization from the Engineer)	CY	500	\$ 20.00	\$	10,000
7.	Dewatering (to be used only with authorization from the Engineer	LF	6,539	\$ 20.00	\$	130,775
8.	4" Sanitary Sewer Force Main	LF	2,566	\$ 40.00	\$	102,640
9.	2" Air Release Valve	EA	3	\$ 6,500.00	\$	19,500
10.	Lift Station	LS	1	\$ 700,000.00	\$	700,000
	TOTAL ESTIMATED WASTEWATER COLLE	CTION	SYSTEM	& LIFT STATION	\$	2,943,780



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST		E	ST TOTAL COST
STORM	DRAINAGE SYSTEM						
1.	24" ASTM C76 CLIII RCP (All depths)	LF	12,367	\$	70.00	\$	865,690
2.	36" ASTM C76 CLIII RCP (All depths)	LF	4,854	\$	125.00	_\$	606,750
3.	48" ASRTM C76 CLIII RCP (All depths)	LF	3,378	\$	200.00	_\$	675,600
4.	60" ASRTM C76 CLIII RCP (All depths)	LF	218	\$	350.00	\$	76,300
5.	Type "B-B" Inlet	EA	134	\$	3,500.00	\$	469,000
6.	Type "A" Inlet	EA	1	\$	3,500.00	\$	3,500
7.	Type "C" Manhole (24"-42")	EA	120	\$	4,000.00	\$	480,000
8.	Dewatering (to be used only with authorization from the Engineer)	LF	5,204	\$	20.00	\$	104,085
9.	Extra bank sand (to be used only with authorization from the Engineer)	CY	1,000	\$	20.00	\$	20,000
10.	Trench Safety System	LF	20,817	\$	1.00	\$	20,817
11.	Boundary Swale	CY	14,923	\$	5.00	\$	74,615
12.	Turf Establishment of Boundary Swale	AC	11.92	\$	2,000.00	\$	23,840
	TOTAL ESTIMA	TED ST	ORM DRA	AINAG	SE SYSTEM	\$	3,420,197





PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM			EST	EST UNIT		T UNIT EST TOTA	
NO.	DESCRIPTION	UNIT	QTY		COST		COST
DETENT	ION POND						_
1.	Detention Excavation (Including Hauling, Spreading & Compaction within fill areas According to Lot Grading Plan & Specs)	CY	386,500	\$	5.50	\$	2,125,750
2.	Amenity Pond Excavation (Including Hauling, Spreading & Compaction within fill areas According to Lot Grading Plan & Specs)	CY	303,600	\$	5.50	_\$	1,669,800
3.	Turf Establishment of Detention Pond Side Slopes & Disturbed Areas	AC	35.30	\$	2,000.00	\$	70,600
4.	Backslope Swale	LF	13,260	\$	3.50	\$	46,410
5.	Backslope Interceptor Structures (including rip rap, CMP pipe, and spreading of spoils on-site)	EA	14	\$	7,000.00	\$	98,000
6.	100-Year Extreme Event Channel (Including grading and concrete)	EA	4	\$	6,000.00	\$	24,000
7.	5' x 5' Equalizer Box	LF	576	\$	500.00	\$	288,000
8.	5' x 2' Box Culvert	LF	240	\$	300.00	\$	72,000
9.	1.5' x 6' Arch Pipe	LF	60	\$	400.00	_\$	24,000
10.	Temporary Drainage Swale through Ponds B & C	CY	148,200	\$	5.50	\$	815,100
11.	Dewatering (to be used only with authorization	LS	1	\$	5,000.00	\$	5,000
	TOTAL	TION POND	\$	5,238,660			



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF IAUTHORIZED **IMPROVEMENTS**

ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST	 T TOTAL COST
SITE PR	EPARATION- STREETS				
1.	Mobilization	EA	5	\$ 10,000.00	\$ 50,000
2.	Lot Mowing and Stripping	AC	99.72	\$ 500.00	\$ 49,860
3.	ROW Mowing & Stripping- 1/2 for Paving	AC	19.07	\$ 1,500.00	\$ 28,605
	ATION-STREETS	\$ 128,465			



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS

ITEM NO.	EST EST UNIT DESCRIPTION UNIT QTY COST			EST TOTAL COST			
STREET	<u>s</u>						
1.	6" Reinforced Concrete Paving	SY	94,563	\$	60.00	\$	5,673,780
2.	Roadway Excavation (Including Hauling, Spreading & Compaction within fill areas According to Lot Grading Plan & Specs)	CY	118,204	\$	4.00	\$	472,816
3.	Load Transfer Device	LF	214	\$	10.00	\$	2,140
4.	6" Stabilized Subgrade	SY	108,747	\$	6.00	\$	652,482
5.	Lime	TON	1,860	\$	205.00	\$	381,300
6.	6" Concrete Curb	LF	53,409	\$	6.00	\$	320,454
7.	Combination Stop/ Street Name Sign	EA	41	\$	1,000.00	\$	41,000
8.	Provide and Install Type III Barricade	EA	10	\$	1,000.00	\$	10,000
9.	Connect to Existing Concrete Pavement (includes Traffic Control Plan)	EA	10	_\$_	3,000.00	\$	30,000
10.	Traffic Control, including signs, flaggers, barricades, barrels, fencing and maintenance of items, Complete in place.	LS	4	\$	15,000.00	\$	60,000
		тот	AL ESTIN	IATE	D STREETS	\$	7,643,972



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF OFF-SITE IMPROVEMENTS WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT

		ESTIMATED TOTAL		
ESTIMA	TED CONSTRUCTION COSTS			
ENTRY	ROAD			
1	Entry Road	\$	1,260,964	
2	Construction Contingencies (20%)	\$	252,193	
	Subtotal Entry Road	\$	1,513,157	
OFF-SIT	E UTILITIES			
1	General	\$	35,000	
2	Off-Site Water Line	\$	569,438	
3	Off-Site Sanitary Sewer Force Main	\$	1,572,300	
4	SWPPP	\$	28,300	
5	Construction Contingencies (20%)	\$	441,008	
	Subtotal Off-Site Utilities	\$	2,646,045	
OFF-SIT	E STREETS			
1	General	\$	35,000	
2	Off-Site Streets	\$	700,000	
3	SWPPP	\$	14,000	
4	Construction Contingencies (20%)	\$	149,800	
	Subtotal Off-Site Streets	\$	898,800	
OFF-SIT	E DRAINAGE			
1	N-S Ditch Improvements	\$	269,000	
2	Jay Road Ditch Improvements	\$	22,560	
3	Construction Contingencies (20%)	\$	58,312	
-	Subtotal Off-Site Drainage	\$	349,872	
	TOTAL CONSTRUCTION COST	\$	5,407,874	



PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF OFF-SITE IMPROVEMENTS WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT

ESTIMATED TOTAL

ESTIMATED ENGINEERING, INSPECTION, SURVEYING AND MISCELLANEOUS FEES

CIVIL EN	IGINEERING (BLACKLINE ENGINEERING, LLC)									
1	Entry Road	\$	151,500							
2	Off-Site Utilities Design	\$	265,000							
3	Off-Site Paving Design	\$	90,000							
4	Off-Site Drainage Design	\$	35,000							
	Subtotal Civil Engineering	\$	541,500							
CONST	CONSTRUCTION INSPECTION									
1	Project Representation-Utilities	\$	75,000							
2	Project Representation-Offsite Paving	\$	22,500							
3	Project Representation-Entry Road	\$	38,000							
	Subtotal Construction Inspection	\$	135,500							
TOTAL	TOTAL ENGINEERING, INSPECTION, SURVEYING AND									
	MISCELLANEOUS FEES	<u>\$</u>	677,000							
	TOTAL ESTIMATED COST	\$	6,084,874							

NOTES

- (1) The quantities in this preliminary cost estimate were obtained from the Preliminary Landplan and are subject to change.
- (2) This estimate does not include CenterPoint Energy Fees.
- (3) This estimate does not include cost related to driveways.
- (4) This estimate assumes 5 sections.
- (5) This estimate does not include cost associated with relocation and/or removal of existing public and/or private utilities.
- (6) This estimate does not include cost for off-site utility easement acquisition.
- (7) This estimate assumes all fill is placed on site.
- (8) This estimate assume the detention rate provided by Pape Dawson is sufficient, and is subject to change based on result of final H&H report.
- (9) This estimate assumes wet/amenity ponds for all proposed detention basins.
- (10) This estimate assumes that only the portion of Jay Road ditch between N-S Ditch and Blimp Base Road will require improvement.
- (11) This estimate does not include any improvements to or downstream of Blimp Base Road Crossing (H&H report required for further analysis).



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PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF OFF-SITE IMPROVEMENTS

- (12) This estimate assumes the 36" outfall pipe within N-S ditch ROW proposed by Pape Dawson will be sufficient (H&H report required for further analysis).
- (13) This estimate assumes the current land plan proposed by Pape Dawson meets all local platting and subdivision criteria.



ITEM NO.			EST TOTAL COST		
GENERA	1				
1.	Mobilization, Move-in & set up, including bonds & insurance	LS	1	\$ 20,000.00	\$ 20,000
2.	Traffic Control Plan (Contractor to provide all traffic control devices, signs and materials per the approved Traffic Control Plan)	LS	1	\$ 15,000.00	\$ 15,000
			SUB	TOTAL GENERAL	\$ 35,000
OFF-SITI	<u> STREETS</u>				
3.	Left Hand Turn Lane on FM 2004, including excavation, subgrade, pavement, curb striping, any necessary signage, demolition and disposal of existing material	EA	1	\$ 150,000.00	\$ 150,000
4.	Right Hand Turn Lane off of FM 2004, including excavation, subgrade, pavement, curb striping, any necessary signage, demolition and disposal of existing material	EA	1	\$ 150,000.00	\$ 150,000
5.	Traffic Signal Installation	LS	1	\$ 400,000.00	\$ 400,000
		SUBT	OTAL C	FF-SITE PAVING	\$ 700,000
<u>SWPPP</u>					
6.	Prepare & Submit N.O.I.s & N.O.T.s, SWPPP For Contractor and Developer and posting of Material				
	on job site	LS	1	\$ 5,000.00	\$ 5,000
7.	TPDES General Permit No. TXR150000	LS	1	\$ 1,500.00	\$ 1,500
8.	Perform weekly inspections during the contract period, as required by the current TPDES permit	LS	1	\$ 500.00	\$ 500



ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST		EST TOTAL COST	
9.	Furnish and install reinforced filter fabric fence (60% of unit cost for furnish and installation and 40% unit of cost is for removal)	LF	500	\$	2.00	\$	1,000
10.	Street cleaning and maintenance of all temporary controls and stabilized areas through the contract period	HR	48	\$	125.00	\$	6,000
			SU	ІВТОТ	AL SWPPP	\$	14,000
	<u>TOTAL</u>	ESTIM <i>A</i>	TED OF	F-SITE	STREETS	\$	749,000



ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST		EST TOTAL COST	
GENERA	ı						
1.	Mobilization, Move-in & set up, including bonds & insurance	LS	1	\$ 20,000.00	\$	20,000	
2.	Traffic Control Plan (Contractor to provide all traffic control devices, signs and materials per the approved Traffic Control Plan)	LS	1	\$ 15,000.00	\$	15,000	
			SUBT	TOTAL GENERAL	\$	35,000	
OFF-SITI	E WATER LINE						
3.	12" C900 PVC CL 150 Waterline by Open Cut Construction	LF	4,750	\$ 65.00	\$	308,750	
4.	20" Steel Casing by Bore and Jack Construction, including 12" Waterline for Pavement Crossings	LF	320	\$ 450.00	\$	144,000	
5.	12"x12" Tapping Sleeve and Valve	EA	1	\$ 7,000.00	\$	7,000	
6.	12" Gate Valve & Box	EA	5	\$ 4,000.00	\$	20,000	
7.	Fire Hydrants Assembly (All Depths) (Including FH lead, 6" tee and 6" Gate Valve & Box)	EA	11	\$ 5,000.00	\$	55,000	
8.	Site Restoration/ Turf Establishment	LF	4,750	\$ 5.00	\$	23,750	
9.	OSHA Trench Safety System (to be used only with authorization from the engineer)	LF	4,750	\$ 1.00	\$	4,750	
10.	Extra Cast Iron Fittings (to be used only with authorization from the Engineer)	TON	1	\$ 2,000.00	\$	1,188	
11.	Extra Bank Sand (to be used only with authorization from the Engineer)	CY	200	\$ 25.00	\$	5,000	
	SU	ІВТОТА	L OFF-S	SITE WATER LINE	\$	569,438	
OFF-SITI	E SANITARY						
12.	Offsite Lift Station	LS	1	\$ 1,000,000.00	\$ 1,0	000,000.00	



ITEM NO.	DESCRIPTION	UNIT	EST QTY		ST UNIT COST	ES	EST TOTAL COST	
13.	12" SDR 26 PVC Sanitary Sewer Pipe (incl. spreading spoils on lots)	LF	5,100	\$	72.00	_ \$	367,200	
14.	18" Steel Casing by Bore and Jack Construction, including 10" Waterline for Pavement Crossings	LF	320	\$	450.00	\$	144,000	
15.	48" Sanitary Sewer Manhole	EA	13	\$	2,200.00	\$	28,600	
16.	Tie in to existing sanitary sewer manhole	EA	1	\$	5,000.00	\$	5,000	
17.	Extra Cement Stabilized Sand (to be used only with authorization from the Engineer)	CY	100	\$	20.00	\$	2,000	
18.	Dewatering (to be used only with authorization from the Engineer	LF	1,275	\$	20.00	\$	25,500	
		SUBTO	TAL OFF	-SITE	SANITARY	\$	1,572,300	
<u>SWPPP</u>								
19.	Prepare & Submit N.O.I.s & N.O.T.s, SWPPP For Contractor and Developer and posting of Material on job site	LS	1	\$	5,000.00	\$	5,000	
20.	TPDES General Permit No. TXR150000	LS	1	\$	1,500.00	\$	1,500	
21.	Perform weekly inspections during the contract period, as required by the current TPDES permit	LS	1	\$	500.00	\$	500	
22.	Furnish and install reinforced filter fabric fence (60% of unit cost for furnish and installation and 40% unit of cost is for removal)	LF	10,200	\$	1.50	\$	15,300	
23.	Street cleaning and maintenance of all temporary controls and stabilized areas through the contract period	HR	48	\$	125.00	\$	6,000	
					AL SWPPP	\$	28,300	



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OFF-SITE IMPROVEMENTS PRELIMINARY CONSTRUCTION COST ESTIMATE FOR THE DEVELOPMENT OF AUTHORIZED IMPROVEMENTS WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT

ITEM			EST	EST UNIT	EST TOTAL
NO.	DESCRIPTION	UNIT	QTY	COST	COST

TOTAL ESTIMATED OFF-SITE UTILITIES \$ 2,205,038





ITEM NO.	DESCRIPTION	UNIT	EST QTY		EST UNIT COST	EST TOTAL COST	
N-S DITO	CH IMPROVEMENTS						
1.	Excavate and Re-Grade Existing Ditch (Including Hauling, Spreading & Compaction within fill areas According to Lot Grading Plan & Specs)						
		CY	11,400	\$	5.50	\$	62,700
2.	Turf Establishment	AC	3.15	\$	2,000.00	\$	6,300
3.	36" RCP Outfall Pipe	LF	1,536	\$	125.00	\$	192,000
4.	Type "C" Manhole (24"-42")	EA	2	\$	4,000.00	\$	8,000
	SUBT	OTAL I	N-S DITCH	н ІМР	ROVEMENTS	\$	269,000
JAY ROA	AD DITCH IMPROVEMENTS						
5.	Excavate and Re-Grade Existing Ditch (Including Hauling, Spreading & Compaction within fill areas According to Lot Grading Plan & Specs)						
	, ,	CY	1,920	\$	5.50	\$	10,560
6.	Turf Establishment	AC	6.00	\$	2,000.00	\$	12,000
	SUBTOTAL J	JAY RO	AD DITCH	н ІМР	ROVEMENTS	\$	22,560
	<u>TOTAL</u>	. ESTIM	ATED OF	F-SIT	E DRAINAGE	\$	291,560

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WITHIN GULF BREEZE PUBLIC IMPROVEMENT DISTRICT								
ITEM NO.	DESCRIPTION	UNIT	EST QTY	E	EST UNIT COST		EST TOTAL COST	
SUBDIVI	SION ENTRY STREET							
1.	6" Reinforced Concrete Paving	SY	9,263	\$	60.00	\$	555,780	
2.	Roadway Excavation (Including Hauling, Spreading & Compaction within fill areas According to Lot Grading Plan & Specs)	CY	11,579	\$	4.00	_\$	46,316	
3.	Load Transfer Device	LF	150	\$	10.00	\$	1,500	
4.	6" Stabilized Subgrade	SY	10,652	\$	6.00	\$	63,912	
5.	Lime	TON	182	\$	205.00	\$	37,310	
6.	6" Concrete Curb	LF	6,250	\$	6.00	\$	37,500	
7.	Combination Stop/ Street Name Sign	EA	1	\$	1,000.00	\$	1,000	
8.	Provide and Install Type III Barricade	EA	1	\$	1,000.00	\$	1,000	
9.	Connect to Existing Concrete Pavement (includes Traffic Control Plan)	EA	1	\$	3,000.00	\$	3,000	
10.	Traffic Control, including signs, flaggers, barricades, barrels, fencing and maintenance of items, Complete in place.	LS	1	\$	15,000.00	\$	15,000	
SUBDIVI	SION ENTRY STREET UTILITIES	SU	BTOTAL	ENT	RY STREET	\$	762,318	
SOBDIVI	SION ENTRY STREET OTILITIES							
1.	12" C900 PVC CL 150 Waterline (incl. fittings) (incl. spreading spoils on lots)	LF	1,925	\$	65.00	_\$	125,125	
2.	12" Gate Valve & Box	EA	1	\$	4,000.00	\$	4,000	
3.	Fire Hydrants Assembly (All Depths) (Including FH lead, 6" tee and 6" Gate Valve & Box)	EA	5	\$	5,000.00	\$	25,000	
4.	OSHA Trench Safety System (to be used only with authorization from the engineer)	LF	1,925	\$	1.00	\$	1,925	
5.	8" SDR 26 PVC Sanitary Sewer Pipe (incl. spreading spoils on lots)	LF	405	\$	35.00	\$	14,175	
6.	Sanitary Sewer Manhole	EA	3	\$	2,200.00	\$	6,600	
7.	OSHA Trench Safety System (to be used only with authorization from the engineer)	LF	405	\$	1.00	\$	405	



ENGINEERING

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ITEM NO.	DESCRIPTION	UNIT	EST QTY	EST UNIT COST	 T TOTAL COST
8.	4" Sanitary Sewer Force Main	LF	1,925	\$ 40.00	\$ 77,000
9.	2" Air Release Valve	EA	2	\$ 6,500.00	\$ 13,000
10.	24" ASTM C76 CLIII RCP (All depths)	LF	1,410	\$ 70.00	\$ 98,700
11.	36" ASTM C76 CLIII RCP (All depths)	LF	380	\$ 125.00	\$ 47,500
12.	Type "B-B" Inlet	EA	6	\$ 3,500.00	\$ 21,000
13.	Type "C" Manhole (24"-42")	EA	10	\$ 4,000.00	\$ 40,000
14.	Dewatering (to be used only with authorization from the Engineer)	LF	448	\$ 20.00	\$ 8,950
15.	Trench Safety System	LF	1,790	\$ 1.00	\$ 1,790
	SUBT	OTAL E	NTRY S	TREET UTILITIES	\$ 485,170
ENTRY S	STREET SITE PREPARATION				
1.	ROW Mowing & Stripping- 1/2 for Utilities	AC	1.99	\$ 1,500.00	\$ 2,988
2.	ROW Mowing & Stripping- 1/2 for Utilities	AC	1.99	\$ 1,500.00	\$ 2,988
3.	Furnish, install and remove filter fabric fencing	LF	3,000	\$ 1.50	\$ 4,500
4.	Inlet Protection Barrier (All Phases), Complete in place	EA	6	\$ 500.00	\$ 3,000
	SUBTOTAL ENT	RY STR	EET SIT	E PREPARATION	\$ 13,476
	<u>TO</u> 1	ENTRY STREET	\$ 1,260,964		

APPENDIX H

		Gulf Breeze Appendix I - Construction Schedule									
		PID									
	Section 1	Section 2	Section 3	Section 4	Section 5	Patio Homes					
			Completed [Date of Constr	uction						
A. Streets	January, 2025	March, 2025	March, 2025	March, 2026	July, 2026	March, 2025					
B. Wastewater	January, 2025	March, 2025	March, 2025	March, 2026	July, 2026	March, 2025					
C. Water	January, 2025	March, 2025	March, 2025	March, 2026	July, 2026	March, 2025					
D. Detention/Drainage	D. Detention/Drainage January, 2025 March, 2025 March, 2025 March, 2026 July, 2026 March, 20										
E. Parks	January, 2025	March, 2025	March, 2025	March, 2026	July, 2026	March, 2025					