STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS

INDEX OF DRAWINGS:

AREA OF WORK

N

PANTHER ENGINEERING SERVICES, INC.

COVER SHEET

STATE ROAD 860/MIAMI GARDENS DR.
FROM I-75 TO NW 57TH AVE
RRR MILLING AND RESURFACING OF
EXISTING SECTION ON SR 84

PANTHER ENGINEERING SERVICES
10555 W FLAGLER ST,
MIAMI, FL 33174

LISSY VENTURA
APPROVAL
STATE OF FLORIDA
PROFESSIONAL ENGINEERS

SEAL

PROJECT: MIAMI GARDENS DRIVE	SHEET: 1
DATE: 12-03-2022	
SCALE: PER DETAIL	

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
(X)	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY	( )	N/A : FL GREENBOOK

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
(X)	PRINCIPAL ARTERIAL	( )	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

- ( ) NATIONAL HIGHWAY SYSTEM
- ( ) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- ( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- ( ) 1 - FREEWAY
- ( ) 2 - RESTRICTIVE w/Service Roads
- ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
- (X) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- ( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
- ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- ( ) 7 - BOTH MEDIAN TYPES

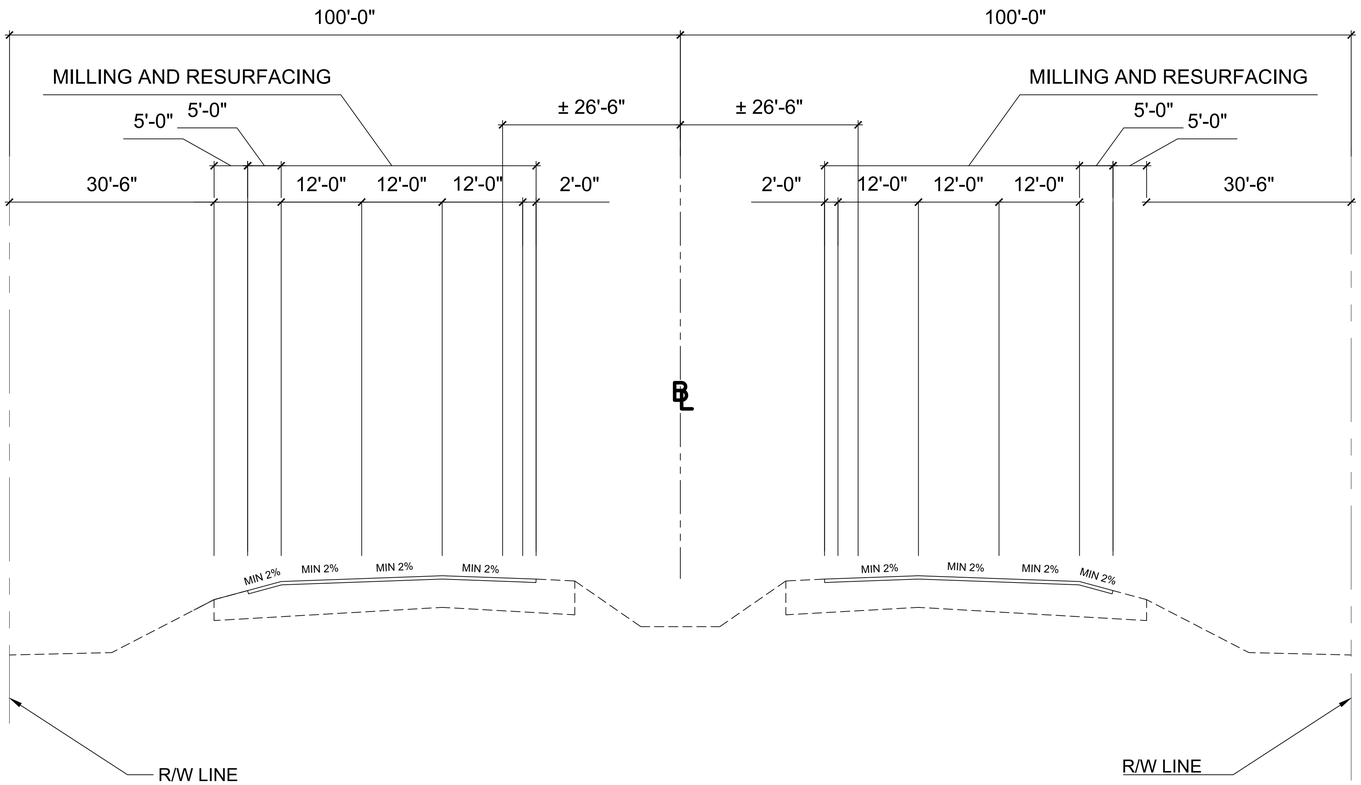
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- ( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATIONS

1. BORDER WIDTH



TYPICAL SECTION

SCALE: $\frac{3}{32}$ "=1'-0"

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PROJECT: MIAMI GARDENS DRIVE	SHEET: 2
DATE: 12-03-2022	
SCALE: PER DETAIL	

STORM WATER POLLUTION PREVENTION NOTES:

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE

1.0 SITE DESCRIPTION

EXISTING 4 LANE HIGHWAY IN MIAMI GARDENS: MIAMI GARDENS DRIVE. SCOPE OF WORK BETWEEN I-75 TO NW 75TH PLACE. MIX OF RESIDENTIAL AND COMMERCIAL AREA

1.A. NATURE OF CONSTRUCTION:

THIS PROJECT IS THE RECONSTRUCTION OF MIAMI GARDENS DRIVE GOING FROM I-75 TO NW 75TH PLACE. AN ADDITIONAL LANE WILL BE ADDED TO EACH SIDE AS WELL AS BIKE LANES TO EACH SIDE (BOTH WB AND EB). RESURFACING AND MILLING OF THE ROAD DUE TO CURRENT CONDITIONS AND ADDITIONAL STORM DRAINAGE IMPROVEMENTS.

1.B. MAJOR SOIL DISTURBANCE ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROL AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION
3. STORM DRAIN AND ROADWAY UNDERDRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY.
5. CONSTRUCT UNDERDRAIN IN POND BOTTOM.

1.C. AREA ESTIMATES

TOTAL SITE AREA: 14.5 ACRES
TOTAL SITE AREA TO BE DISTURBED: 14.5 ACRES

1.D RUNOFF DATA:
RUNOFF COEFFICIENTS:
BEFORE: 0.7
DURING: 0.7
AFTER: 0.7
SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE RESULTS OF SOIL BORINGS DONE IN THE PONDS ARE SHOWN ON THE POND DETAIL SHEETS. THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE CLAYEY SANDS.

1.E. SITE MAP:
THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS. THE BACK OF SIDEWALK PROFILE SHEETS SHOW OVERLAND FLOW DIRECTION AT THE RIGHT OF WAY LINE. THE ARROWS ABOVE AND BELOW THE PROFILE REPRESENT THE FLOW DIRECTION AT THE LEFT AND RIGHT PROPERTY LINE, RESPECTIVELY. ARROWS POINTING TO THE PROFILE INDICATE RUNOFF COMING TO THE SITE. POINTING AWAY FROM THE SITE INDICATE RUNOFF LEAVING THE SITE.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE POND CROSS SECTIONS LOCATED WITH THE POND DETAIL SHEETS.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

* AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS EXCEPT FOR THE CONTROLS ASSOCIATED WITH THE BOX CULVERT REPLACEMENT WHICH ARE SHOWN ON THE BOX CULVERT CONSTRUCTION DETAIL SHEET. TABLES PROVIDING SUMMARIES OF TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITY SHEETS.
* LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER PONDS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS

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PROJECT:	SHEET:
MIAMI GARDENS DRIVE	2
DATE: 12-03-2022	
SCALE: PER DETAIL	

2.0 CONTROLS
2.A. EROSION AND SEDIMENT CONTROLS
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

2.A.1 STABILIZATION PRACTICES:
IN THE SEDIMENT AND EROSION CONTROL PLA, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:
* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104 PERMANENT.

PERMANENT:
* ASPHALT OR CONCRETE SURFACE.
* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:
* SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN SPECIFICATION SECTION 104, AND FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.

* INLET PROTECTION IN ACCORDANCE WITH FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.

* SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:
* STORMWATER PONDS.
* SOD.

2.B. STORMWATER MANAGEMENT:

SEVERAL STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO STORMWATER RETENTION / DETENTION PONDS. THE FACILITIES HAVE BEEN PERMITTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND THE CITY OF MIAMI GARDENS AND COMPLY WITH APPLICABLE DESIGN STANDARDS.

2.C OTHER CONTROLS:
2.C.1 WASTE DISPOSAL
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:
* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION
* MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* COVERING LOADED HAUL TRUCKS WITH TARPAULINS.
* REMOVING EXCESS DIRT FROM ROADS DAILY.
* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO THE FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY

IN THE SPECIFICATION SECTION 104, EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 982 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

* FDEP RULE CHAPTER 62-25 F.A.C.

3.0 MAINTENANCE:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

* SILT FENCE: MAINTAIN PER SPECIFICATION SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.

* SEDIMENT BARRIERS : REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

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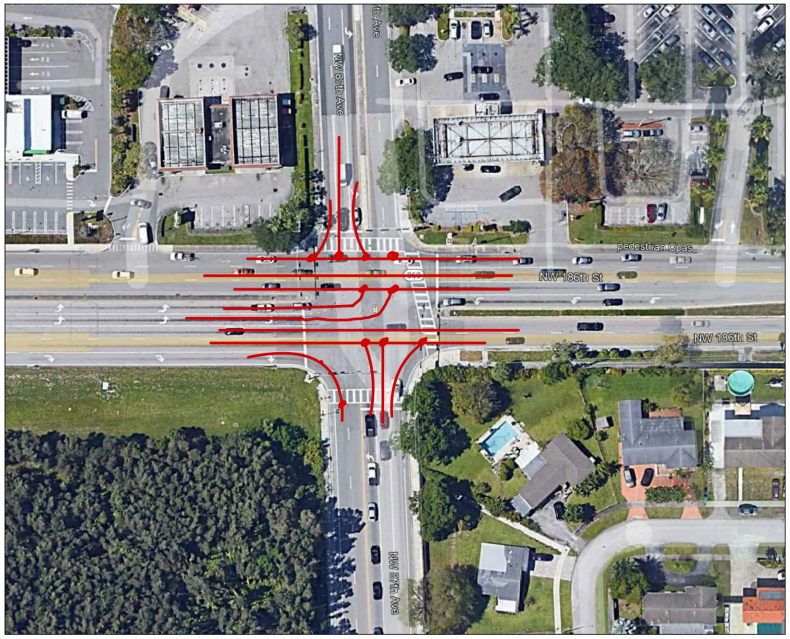
PROJECT: MIAMI GARDENS DRIVE	SHEET: 2
DATE: 12-03-2022	
SCALE: PER DETAIL	

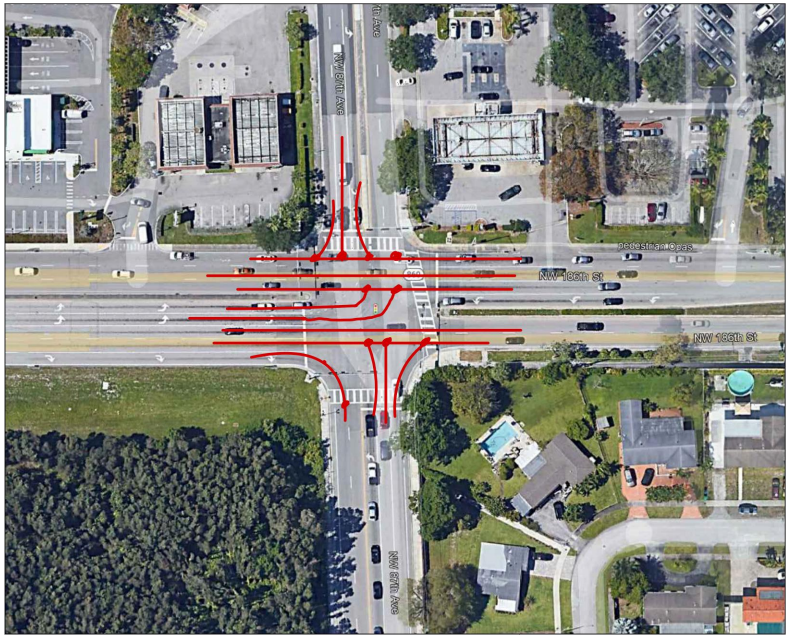
87TH AVE INTERSECTION



Existing

LEGEND:

CONFLICT POINT:	
TRAFFIC FLOW:	
LANE MARKER:	
RAISED MEDIAN:	
RAISED MEDIAN W/ LANDSCAPE:	

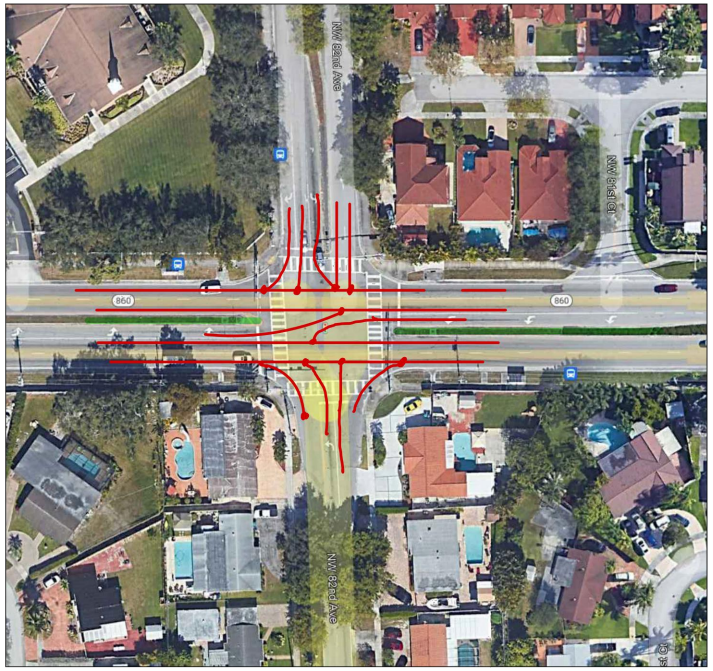


Proposed

PANTHER ENGINEERING SERVICES, INC.

Company:	Panther Engineering Services
Drawn By:	KH & JH
Project	Expansion of Miami Gardens Drive
Date	11/25/22
Reviewed by:	JH
Scale	N.T.S

82ND AVE INTERSECTION



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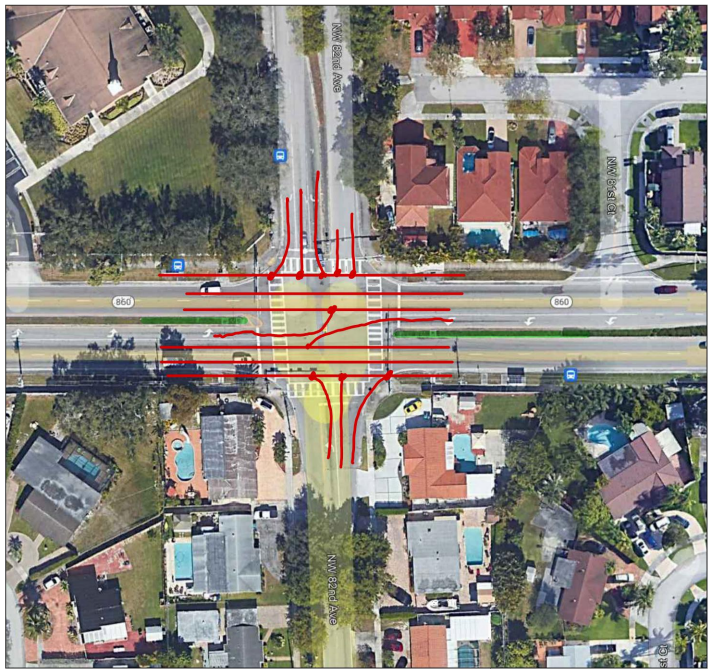
LEGEND:

CONFLICT POINT:	
TRAFFIC FLOW:	
LANE MARKER:	
RAISED MEDIAN:	
RAISED MEDIAN W/ LANDSCAPE:	



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Date	11/25/22
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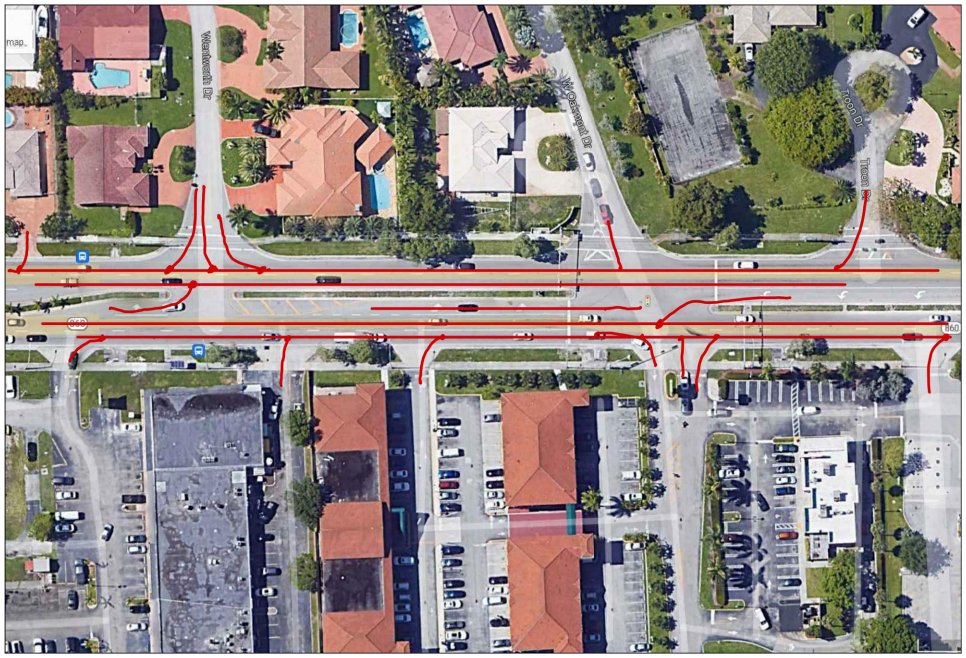
Scale	N.T.S

W OAKMOUNT DRIVE INTERSECTION



Existing

LEGEND:

CONFLICT POINT:	
TRAFFIC FLOW:	
LANE MARKER:	
RAISED MEDIAN:	
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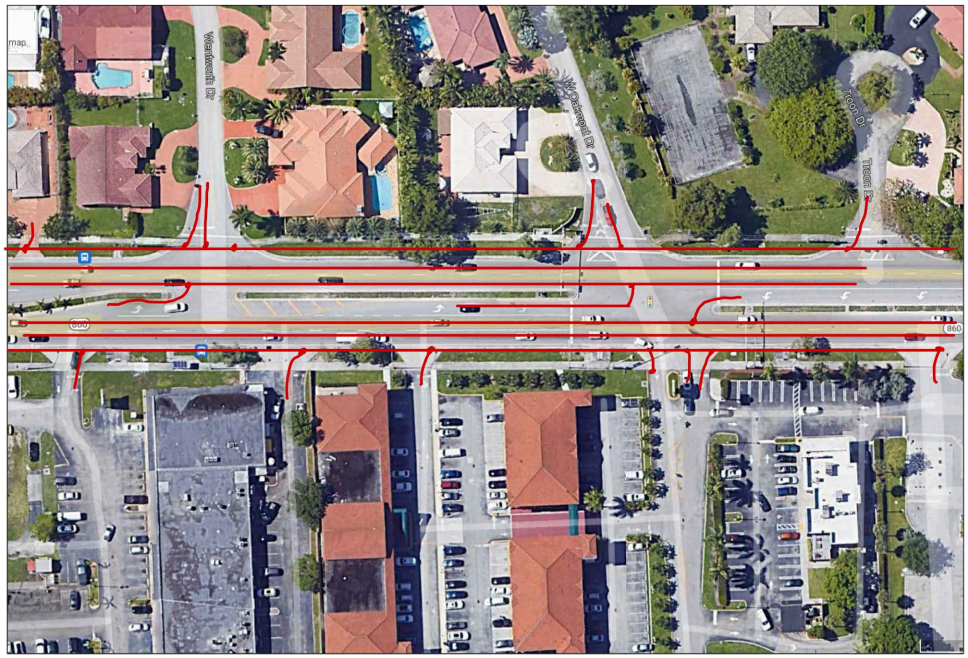

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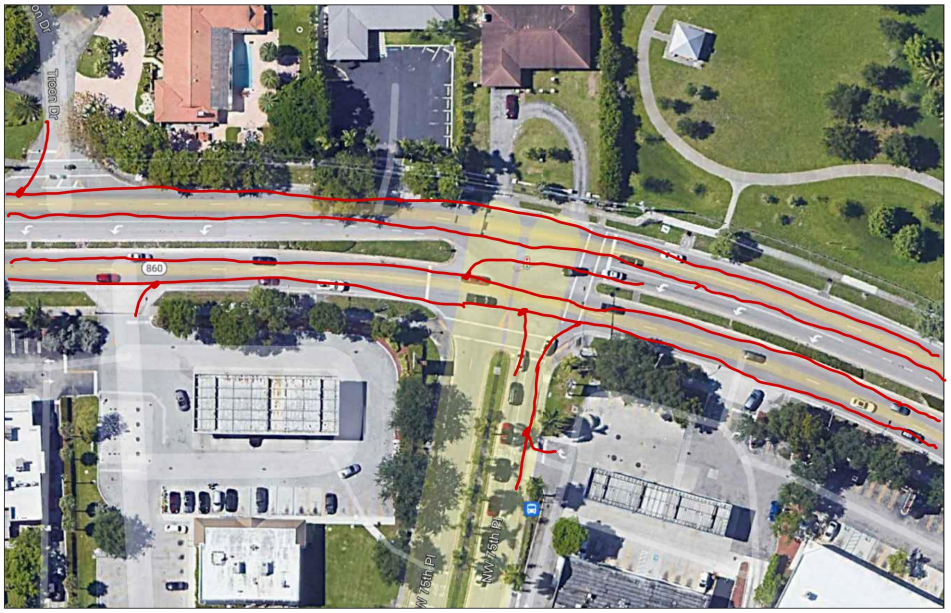
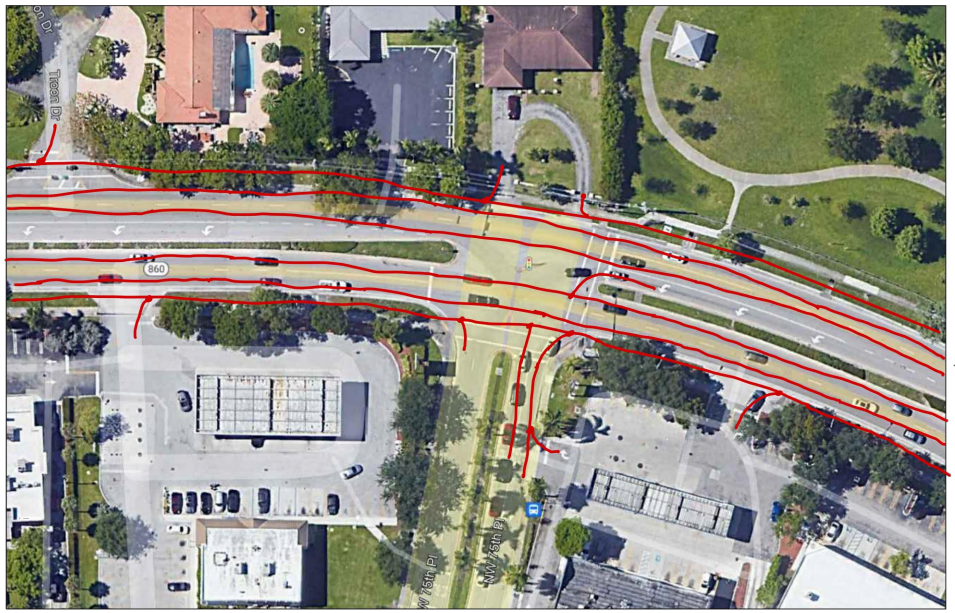
NW 75TH PLACE INTERSECTION



Existing

LEGEND:

CONFLICT POINT:	
TRAFFIC FLOW:	
LANE MARKER:	
RAISED MEDIAN:	
RAISED MEDIAN W/ LANDSCAPE:	



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Construction Estimate

Earthwork:

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	1.158
Top of Structural Course For Begin Section	103.00
Top of Structural Course For End Section	103.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Item	Description	Quantity Unit	Column1	Column2	Unit Price
110-1-1	Clearing and grubbing	7.02 AC			84316.56

Roadway Work:

Column1	Column2
Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	110
Column1	Column2
Friction Course Spread Rate	110
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Column1	Column2	Column3	Column32	Column4	Column5
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-5	MILLING EXIST ASPH PAVT, 2"AVG DEPTH	24,456.96	SY	$3.45	$84,376.51
334-1-13	SUPERPAVE ASPHALTIC CONC,TRAFFIC C	1,345.13	TN	$138.86	$186,785.10
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	1,345.13	TN	$157.02	$211,212.71
X-Items					
Pay item	Description	QuantityUnit		Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	2,948.25	SY	$5.85	$17,247.26
	Comment: Includes widening areas in the median area. Calculated via microstation shapes.				
285-709	OPTIONAL BASE,BASE GROUP 09	2,948.25	SY	$27.28	$80,428.26
	Comment: Includes widening areas in the median area. Calculated via microstation shapes.				
327-70-5	MILLING EXIST ASPH PAVT, 2"AVG DEPTH	11,019.77	SY	$3.45	$38,018.22
	Comment: Difference between microstation quantity from total of other milling and resurfacing areas in this LRE.				
334-1-13	SUPERPAVE ASPHALTIC CONC,	768.23	TN	$138.86	$106,675.72

Pay item	Description	QuantityUnit	Unit	Unit Price	Column1	Exten
706-1-1	RAISED PAVMT MARK, TYPE BW/O FINAL SURF	586.5	EA	25.14		
710-11-101	PAINTED PAVTMARK,STD,WHITE,SOLID,6"	3.4725	GM	780.11		
710-11-131	PAINTED PAVTMARK,STD,WHITE,SKIP, 6"	3.4725	GM	376.26		

Column1	Description	Quantity	Unit	Unit Price	Extended Amount
711-16-101	THERMOPLASTIC, STD-OTH,WHITE, SOLID, 6"	3.4725	GM	3666.04	12730.3239
711-16-131	THERMOPLASTIC, STD-OTH,WHITE, SKIP, 6"	3.4725	GM	1320.98	4587.10305
	Roadway Component Total				1175264.01

Column1	Column2
Description	Value
Include Ther	Y
Pavement Ty	Asphalt
Solid Stripe N	1
Solid Stripe N	4
Skip Stripe N	1
Skip Stripe N	4

Signage Work:

Pay item	Description	Quantity	Unit	Unit Price	Extende
700-1-11	SINGLE POST SIGN, F&I GM, <12SF	19.5	AS	340.87	6646.965
700-1-12	SINGLE POST SIGN, F&I GM, 12-20SF	3	AS	1091.14	3273.42
700-1-50	SINGLE POST SIGN, RELOCATE	3	AS	288.02	864.06
700-1-60	SINGLE POST SIGN, REMOVE	24	AS	22.75	546
700-2-14	MULTI- POST SIGN, F&I GM, 31-50SF	3	AS	4686.95	14060.85
700-2-60	MULTI- POST SIGN, REMOVE	3	AS	565.87	1697.61
	Signing Component Total				27088.91

Signalization:

Signal 1

Pay item	Description	Quantity	Unit	Unit Price	Extend
630-2-11	CONDUIT, F& I, OPEN TRENCH	525	LF	9.18	4819.5
630-2-12	CONDUIT, F& I, DIRECTIONALBORE	225	LF	19.56	4401
632-7-1	SIGNAL CABLE- NEW OR RECO,FUR & INSTALL	1	PI	5934.21	5934.21
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22	EA	652.62	14357.64
639-1-112	ELECTRICAL POWERSRV,F&I,OH,M,PUR BY CON	1	AS	3223.36	3223.36
639-2-1	ELECTRICAL SERVICE WIRE, F&I	45	LF	5.42	243.9
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1	EA	1235.46	1235.46
649-21-21	STEEL MAST ARM ASSEMBLY,F&I, 78'	4	EA	55000	220000
650-1-14	VEH TRAF SIGNAL,F&IALUMINUM, 3 S 1 W	20	AS	986.87	19737.4
653-1-11	PEDESTRIAN SIGNAL, F&I LEDCOUNT, 1 WAY	8	AS	762.66	6101.28
660-1-102	LOOP DETECTOR INDUCTIVE,F&I, TYPE 2	20	EA	379.67	7593.4
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20	AS	1188.63	23772.6
665-1-11	PEDESTRIAN DETECTOR, F&I,STANDARD	8	EA	251.38	2011.04
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1PREEMPT	1	AS	28482.95	28482.95
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4	EA	386.11	1544.44
700-5-21	INTERNAL ILLUM SIGN, F&I OM,UP TO 12 SF	4	EA	3014.2	12056.8

Signal 2

Pay item	Description	Quantity	Unit	Unit Price	Extend
630-2-11	CONDUIT, F& I, OPEN TRENCH	525	LF	9.18	4819.5
630-2-12	CONDUIT, F& I, DIRECTIONALBORE	225	LF	19.56	4401
632-7-1	SIGNAL CABLE- NEW OR RECO,FUR & INSTALL	1	PI	5934.21	5934.21
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22	EA	652.62	14357.64
639-1-112	ELECTRICAL POWERSRV,F&I,OH,M,PUR BY CON	1	AS	3223.36	3223.36
639-2-1	ELECTRICAL SERVICE WIRE, F&I	45	LF	5.42	243.9
Column1	Column2	Quantity	Unit	Unit Price	Extend
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1	EA	1235.46	1235.46
649-21-21	STEEL MAST ARM ASSEMBLY,F&I, 78'	4	EA	55000	220000
650-1-14	VEH TRAF SIGNAL,F&IALUMINUM, 3 S 1 W	20	AS	986.87	19737.4
653-1-11	PEDESTRIAN SIGNAL, F&I LEDCOUNT, 1 WAY	8	AS	762.66	6101.28
660-1-102	LOOP DETECTOR INDUCTIVE,F&I, TYPE 2	20	EA	379.67	7593.4
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20	AS	1188.63	23772.6
665-1-11	PEDESTRIAN DETECTOR, F&I,STANDARD	8	EA	251.38	2011.04
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1PREEMPT	1	AS	28482.95	28482.95
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4	EA	386.11	1544.44
700-5-21	INTERNAL ILLUM SIGN, F&I OM,UP TO 12 SF	4	EA	3014.2	12056.8

Shoulder Work:

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	8.25 / 8.25
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	6.00 / 6.00

Description	Quantity	Unit	Unit Price	Extended Amount
CONCRETE SIDEWALK ANDDRIVEWAYS, 4"	6,114.24	SY	$45.61	278870.4864
TYPE B STABILIZATION	11,118.00	SY	$5.85	65040.3
OPTIONAL BASE,BASE GROUP 09	11,118.00	SY	$27.28	303299.04
SUPERPAVE ASPHALTIC CONC,TRAFFIC C	611.4975	TN	$138.86	84912.54285
ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	611.4975	TN	$162.53	99386.68868
CONCRETE CURB & GUTTER,TYPE F	8,735.25	LF	$28.37	247819.0425
Description	Quantity	Unit	Unit Price	Extended Amount
SEDIMENT BARRIER	9,171.36	LF	2.03	18617.8608
INLET PROTECTION SYSTEM	40.5	EA	108.59	4397.895
LITTER REMOVAL	7.575	AC	47.19	357.46425
MOWING	7.575	AC	60.6	459.045
Shoulder Component Total				1103160.365

Median Work:

Description	Value
Total Median Width	23.5
Performance Turf Width	5.34

Column1	Column2	Column3	Column32	Column4	Column5
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	1,699.11	LF	$50.11	85142.4021
570-1-1	PERFORMANCE TURF	2,720.84	SY	$1.57	4271.71095
X-Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER,TYPE F	3,984.75	LF	$28.37	113047.3575
	Median Component Total				$202,461.47

Drainage Work:

Description	Quantity	Unit	Unit Price	Extended Amoun
CONC CLASS II, ENDWALLS	15.63	CY	$1,540.03	24070.6689
PERFORMANCE TURF	264.0225	SY	$1.57	414.515325
INLETS, CURB, TYPE P-6, <10'	28.5	EA	$6,130.34	174714.69
MANHOLES, P-7, <10'	9	EA	$4,459.35	40134.15
PIPE CULV, OPT MATL, ROUND,18"S/CD	2,970.00	LF	$84.14	249895.8
FRENCH DRAIN, 24"	1,299.00	LF	$150.27	195200.73
Drainage Component Total				$684,430.55

Signal 3

Pay item	Description	Quantity	Unit	Unit Price	Extend
630-2-11	CONDUIT, F& I, OPEN TRENCH	525	LF	9.18	4819.5
630-2-12	CONDUIT, F& I, DIRECTIONALBORE	225	LF	19.56	4401
632-7-1	SIGNAL CABLE- NEW OR RECO,FUR & INSTALL	1	PI	5934.21	5934.21
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22	EA	652.62	14357.64
639-1-112	ELECTRICAL POWERSRV,F&I,OH,M,PUR BY CON	1	AS	3223.36	3223.36
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60	LF	5.42	325.2
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1	EA	1235.46	1235.46
649-21-21	STEEL MAST ARM ASSEMBLY,F&I, 78'	4	EA	55000	220000
650-1-14	VEH TRAF SIGNAL,F&IALUMINUM, 3 S 1 W	20	AS	986.87	19737.4
653-1-11	PEDESTRIAN SIGNAL, F&I LEDCOUNT, 1 WAY	8	AS	762.66	6101.28
660-1-102	LOOP DETECTOR INDUCTIVE,F&I, TYPE 2	20	EA	379.67	7593.4
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20	AS	1188.63	23772.6
665-1-11	PEDESTRIAN DETECTOR, F&I,STANDARD	8	EA	251.38	2011.04
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1PREEMPT	1	AS	28482.95	28482.95
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4	EA	386.11	1544.44
700-5-21	INTERNAL ILLUM SIGN, F&I OM,UP TO 12 SF	4	EA	3014.2	12056.8

Lighting:

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	4585.68	LF	9.18	42096.5424
630-2-12	CONDUIT, F& I, DIRECTIONALBORE	910.185	LF	19.56	17803.2186
635-2-11	PULL & SPLICE BOX, F&I, 13" x24"	41	EA	652.62	26757.42
715-1-13	LIGHTING CONDUCTORS, F&I,INSUL, NO.	16748.1525	LF	2.87	48067.19768
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	41	EA	6040.45	247658.45
715-500-1	POLE CABLE DIST SYS,CONVENTIONAL	41	EA	1432.31	58724.71
	Subcomponent Total				441107.5387

Budget Sum Total: $5,293,000.00

PES
PANTHER ENGINEERING SERVICES, INC.

STATE ROAD 860/MIAMI GARDENS DR.
FROM I-75 TO NW 57TH AVE
RRR MILLING AND RESURFACING OF
EXISTING SECTION ON SR 84

PANTHER ENGINEERING SERVICES
10555 W FLAGLER ST,
MIAMI, FL 33174

LISSY VENTURA
APPROVAL
STATE OF FLORIDA
PROFESSIONAL ENGINEERS
SEAL

PROJECT: MIAMI GARDENS DRIVE	SHEET: 6
DATE: 12-03-2022	
SCALE: PER DETAIL	