

# CITY OF DORAL

## STORMWATER IMPROVEMENTS TO SUB-BASIN D-3-1 AT NW 29TH STREET & NW 79TH AVENUE

### PROJECT LOCATION

#### UTILITY PROVIDERS

**MIAMI DADE  
WATER & SEWER**  
Miami Dade Water & Sewer  
Department 3575 South LeJeune  
Road Miami, FL 33146  
Contact: Mr. Lazaro Guerra Phone:  
(786) 268-5273

**POWER**  
Florida Power and Light  
10705 Quail Roost Dr.  
Miami, FL 33157  
Contact: Edgar Aguilar  
Phone: (305) 378-2634

**GAS**  
Florida City 4" GAS  
4045 NW 57 Ave  
Doral, FL 33178  
Contact: Michael Bobb  
Phone: (305) 835-3618

**CABLE**  
Comcast Cable  
6565 Novia Dr.  
Davie, FL 33317  
Contact: Ricardo Davidson  
Phone: (786) 586-8505

**TELEPHONE**  
AT&T Distribution  
600 NW 79<sup>th</sup> Ave  
Miami, FL 33126  
Contact: Mr. Henry Urena  
Phone: (305) 913-1408

**MCI**  
3301 Matrix Dr.  
Richardson, TX 75082  
Phone: 800-624-9875

**STORM DRAINAGE PERMITTING**  
Miami Dade County Department  
Regulatory & Economic Resources  
701 NW 1<sup>st</sup> Court  
Miami, FL 33166  
Phone: (305) 372-6789

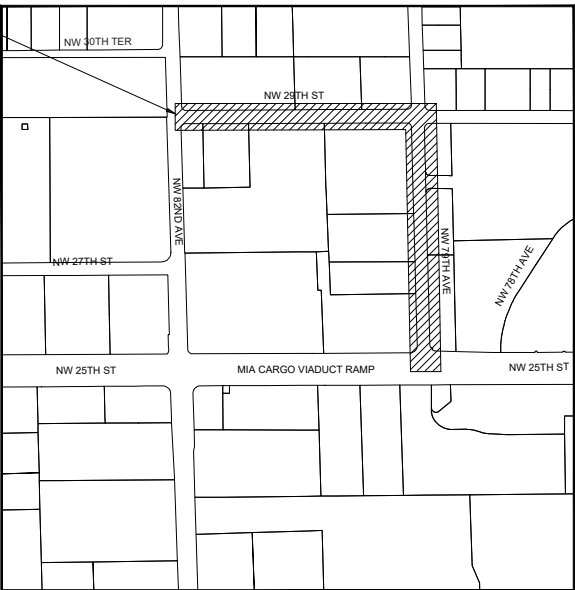
#### DESIGN TEAM

**CIVIL ENGINEER**  
300 Engineering Group LLC  
2222 Ponce de Leon Blvd.  
Suite 300  
Coral Gables, FL 33134

**OWNER**  
City of Doral  
8401 NW 53rd Terrace  
Doral, Florida 33166

**SURVEYOR**  
Miller Legg  
1845 NW 112 Avenue, Suite 211  
Miami, FL 33172

**GEOTECHNICAL**  
Terracon  
16200 NW 58th Ave, Suite 106  
Miami, FL 33014



**LOCATION MAP**  
SECTION 27 TOWNSHIP 53 S - RANGE 40 E  
N.T.S.

SHEET INDEX	
C1	COVER SHEET
C2	GENERAL NOTES
C3	SUMMARY OF QUANTITIES
C4	KEY PLAN PROJECT
C5 TO C6	PAVING & GRADING PLAN
C7 TO C10	DRAINAGE PLAN & PROFILE
C11	TYPICAL ROADWAY SECTIONS
C12	MISCELLANEOUS DETAILS
C13 TO C14	STORMWATER POLLUTION PREVENTION PLANS
C15	STORMWATER POLLUTION PREVENTION DETAILS
C16 TO C17	PAVEMENT MARKINGS & SIGNAGE PLANS



**CITY OF DORAL  
DEPARTMENT OF PUBLIC WORKS**  
8401 NW 53 TERRACE, DORAL FL 33166

**MAYOR CITY COUNCIL**  
CHRISTIE FRAGA MAYOR  
RAFAEL PINEYRO VICE MAYOR

DIGNA CABRAL COUNCILWOMAN  
OSCAR PLUG-CORVE COUNCILMAN  
MAUREN PORRAS COUNCILWOMAN

#### CITY STAFF

CARLOS ARROYO PUBLIC WORKS DIRECTOR



STORMWATER IMPROVEMENTS TO  
SUB-BASIN D-3-1 AT NW 29TH  
STREET AND NW 79TH AVENUE

#### SHEET TITLE

COVER SHEET

NO.	DATE	REVISIONS	BY:
1	02/25/24	REV SUBMITTER	A.B.
2	02/25/24	REV SUBMITTER	D.A.S.
3	02/25/24	REV SUBMITTER (PERMIT SET)	D.A.S.
4	04/11/24	DRP TRAFFIC COMMENTS	D.A.S.
5	07/10/24	NO SET	D.A.S.

#### ENGINEER OF RECORD



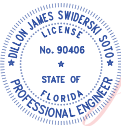
**CONSULTANT**  
300 ENGINEERING GROUP LLC  
300 Ponce de Leon Blvd, Suite 300  
Coral Gables, FL 33134  
(305) 462-4621

PROJ. NO.	DRAWN	CHECK	APPV
2222	12.2	1.2	D.S.
P.E.	SCALE	DATE	
120		7/10/2024	
SHEET NO.	FILE NO.		
C1			

BID SET



Call 811 or visit [sunshine811.com](http://sunshine811.com) two full  
business days before digging to have  
buried facilities located and marked.  
Check positive response codes before you dig!



Digitally signed by  
Dillon J Swiderski  
Soto  
Date: 2024.07.16  
22:04:09 -04'00'

THIS SEAL HAS BEEN DIGITALLY SIGNED AND SEALED ON  
THE DATE ADJUNCT TO THIS SEAL.  
UNLESS COPIES OF THIS DOCUMENT ARE NOT  
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE  
MAY BE VIEWED ON ANY ELECTRONIC CODES.




SUMMARY OF QUANTITIES						
PAY ITEM NO.	DESCRIPTION	UNIT	COMPONENT			
			ROADWAY		SPM	
			PLAN	FINAL	PLAN	FINAL
0101 1	MOBILIZATION	LS	1			
0102 1	MAINTENANCE OF TRAFFIC	LS	1			
0104 18	INLET PROTECTION	EA	23			
0327 70 1	MILLING EX. ASPHALT PAVEMENT, 1" AVG DEPTH	SY	7535			
0334 1 52	SUPERPAVE ASPHALTIC CONCRETE, SP-9.5, PG-76-22	TN	40			
0337 7 30	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC 9.5, RUBBER	TN	415			
0425 11	COREDRIILL (MODIFY) EXISTING STRUCTURE	EA	2			
0425 1361	INLETS, CURB, TYPE P-6, <10'	EA	2			
0425 2 41	MANHOLES, P-7, <10'	EA	6			
0425 2 42	MANHOLES, P-7, >10'	EA	6			
0425 6	VALVE BOXES, ADJUST	EA	1			
0425 6 1	METER BOXES, ADJUST	EA	1			
0430175112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"/5/CD	LF	8			
0430175115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"/5/CD	LF	70			
0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"/5/CD	LF	16			
0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"/5/CD	LF	140			
0430175136	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 36"/5/CD	LF	20			
0443 70 4	24" HDPE FRENCH DRAIN	LF	434			
0443 70 6	36" HDPE FRENCH DRAIN	LF	340			
0520 1 10	CONSTRUCT CONCRETE CURB AND GUTTER, TYPE F	LF	44			
0520 2	VALLEY GUTTER- CONCRETE (REMOVE AND REPLACE)	LF	200			
0522 1	CONSTRUCT 4" CONCRETE SIDEWALK	LF	240			
0570 1 2	PERFORMANCE TURF, SOD	SY	1250			
0706 3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	EA			255	
0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		0.83		
0710 11214	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 18"	LF		355		
0710 11215	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF		128		
0710 11311	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	0.12			
0710 11370	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.71			
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	180			
0710 12221	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	0.44			
0711 11111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	GM	0.83			
0711 11214	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	355			
0711 11375	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	128			
0711 11311	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	GM	0.12			
0711 11370	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	24			
0711 11221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	GM	0.71			
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	180			
0711 11231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	GM	0.44			
1060 16	REMOVAL OF EXISTING STORMWATER MANHOLE	EA	4			

MIAMI DADE COUNTY ENGINEERING STANDARDS		
FOR	SEE DETAIL	SHEET
WATER AND GRAVITY SEWER MAIN CROSSINGS	GS 1.5	1 & 2 OF 2
MANHOLE AND INLET (TYPE P)	SD 2.7	2 OF 4
EXFILTRATION TRENCH (FRENCH DRAIN)	SD 1.1	1 OF 2
EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1	2 OF 2
PAVEMENT RESTORATION TYPE V	A 1.1	1 OF 1
ABBREVIATIONS FOR DEPARTMENT'S PROJECTS	A 10.0	1, 2 & 3 OF 3
NOTES: 1. THE ABOVE LIST SHALL NOT BE CONSIDERED AS NECESSARILY COMPLETE, NOR SHALL THE STANDARD DETAILS WHICH MAY BE INCLUDED ELSEWHERE HEREIN BE CONSIDERED AS FORMING A COMPLETE LISTING OF ALL STANDARD DETAILS WHICH MAY APPLY TO THIS PROJECT. 2. ALL STANDARD DETAILS ARE INCORPORATED IN THE ABOVE LIST BY REFERENCE AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE MOWING STANDARD DETAILS.		

FDOT STANDARDS CONSTRUCTIONS		
FOR	SEE DETAIL	SHEET
CURB INLET TOP TYPES 5 & 6	425--021	1, 2, 3, 4, 5, 6 & 7 OF 7
CURB AND GUTTER	520--001	2 OF 3
CONCRETE SIDEWALK	522--001	1 & 2 OF 2
PAVEMENT MARKINGS	711--001	1, 2, 8 & 10 OF 13
NOTES: 1. THE ABOVE LIST SHALL NOT BE CONSIDERED AS NECESSARILY COMPLETE, NOR SHALL THE STANDARD DETAILS WHICH MAY BE INCLUDED ELSEWHERE HEREIN BE CONSIDERED AS FORMING A COMPLETE LISTING OF ALL STANDARD DETAILS WHICH MAY APPLY TO THIS PROJECT. 2. ALL STANDARD DETAILS ARE INCORPORATED IN THE ABOVE LIST BY REFERENCE AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FDOT STANDARD DETAILS.		

TABLE OF QUANTITIES SUB-BASIN D-3-1 DRAINAGE IMPROVEMENTS		
NW 29TH STREET		
DESCRIPTION	UNIT	QUANTITY
NEW MANHOLE	EA	7
NEW 24" HDPE EXF. TRENCH	LF	434
NEW 24" HDPE SOLID PIPE	LF	140
CORE & DRILL	EA	2
24" HDPE PIPE REMOVAL	LF	500
MANHOLE STRUCTURE REMOVAL	EA	4
POLLUTION RETARDANT BAFFLE	EA	9
NW 79TH AVENUE		
DESCRIPTION	UNIT	QUANTITY
NEW MANHOLE	EA	5
NEW TYPE 6 CURB INLET	EA	2
NEW 36" HDPE EXF. TRENCH	LF	340
NEW 36" HDPE	LF	20
NEW 15" HDPE SOLID PIPE	LF	70
POLLUTION RETARDANT BAFFLE	EA	4

THIS DRAWING HAS BEEN ELECTRONICALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



STORMWATER IMPROVEMENTS TO SUB-BASINS D-3-1 AT NW 29TH STREET AND NW 79TH AVENUE

SHEET TITLE

SUMMARY OF QUANTITIES

NO.	DATE	REVISIONS	BY:
1	3/27/24	REV SUBMITTER	AK
2	4/25/24	REV SUBMITTER	DAS
3	5/22/24	REV SUBMITTER (PERMIT SET)	DAS
4	6/11/24	2PDM INMATIC COMMENTS	DAS
5	7/10/24	NO SET	DAS

ENGINEER OF RECORD



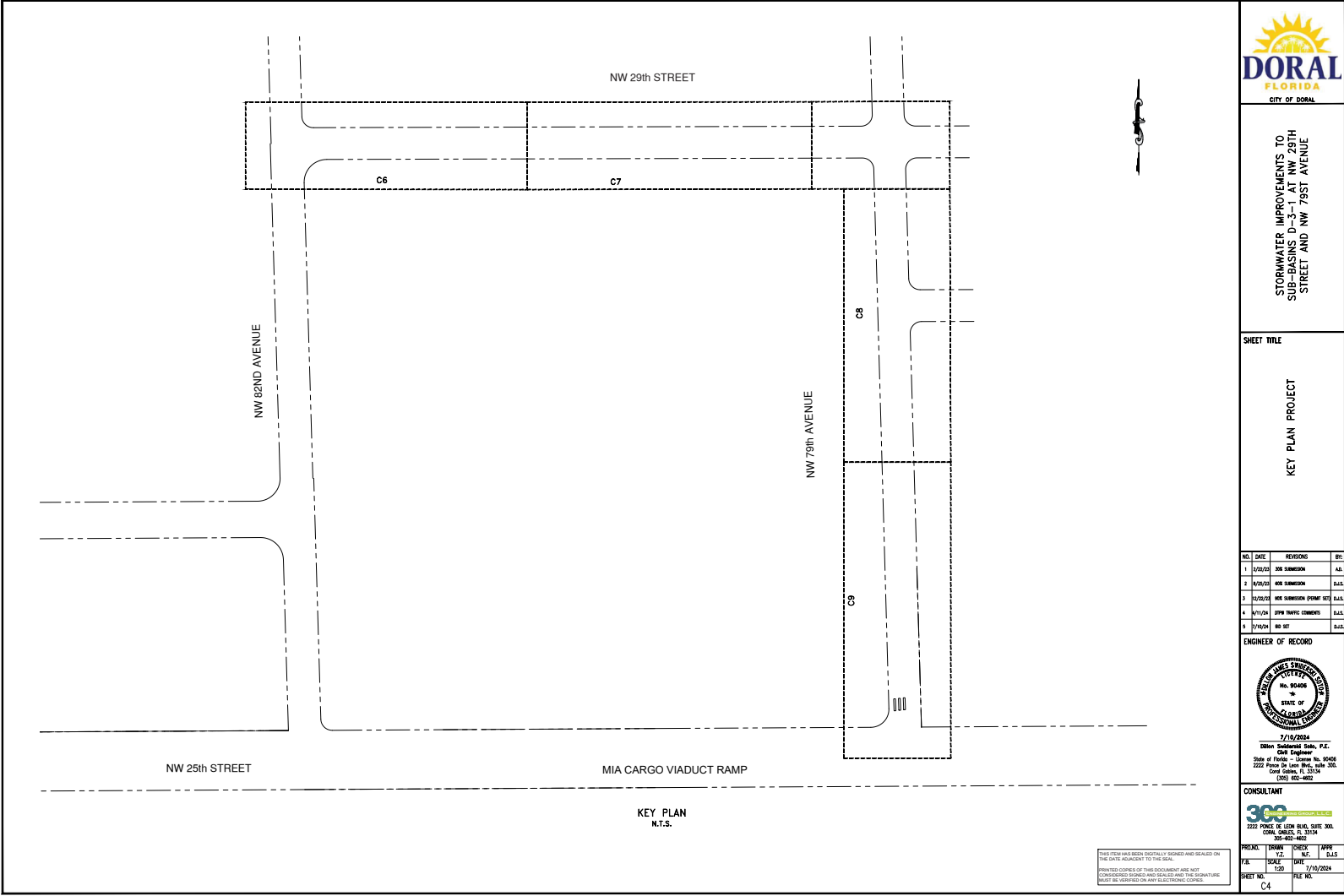
7/10/2024  
Dilón Saldarriado Soto, P.E.  
Civil Engineer  
State of Florida - License No. 94008  
2222 Pines Dr. Suite 202, Coral Gables, FL 33134  
(305) 462-4601

CONSULTANT



300 ENGINEERING  
2222 Pines Dr. Suite 202, Coral Gables, FL 33134  
(305) 462-4601

PROJECT	DRAWN	CHECK	IN CHARGE	APPROVED
P.S.	SCALE	DATE		
SHEET NO.	130	FILE NO.		
C3				





**STORMWATER IMPROVEMENTS TO STORMWATER BASINS C6-C9 AT NW 25TH STREET AND NW 79TH AVENUE**

**SHEET TITLE**

KEY PLAN PROJECT

NO.	DATE	REVISIONS	BY:
1	5/27/24	FOR SUBMISSION	AA
2	6/15/24	FOR SUBMISSION	D.J.S
3	6/25/24	FOR SUBMISSION (PERMIT SET)	D.J.S
4	6/27/24	FOR PERMIT COMMENTS	D.J.S
5	7/10/24	FOR SET	D.J.S

**ENGINEER OF RECORD**



7/10/2024  
Dillon Saldemirli, P.E.  
Civil Engineer  
State of Florida - License No. 94008  
2222 Pines Dr, Suite 100, Coral Gables, FL 33134  
(305) 442-4602

**CONSULTANT**

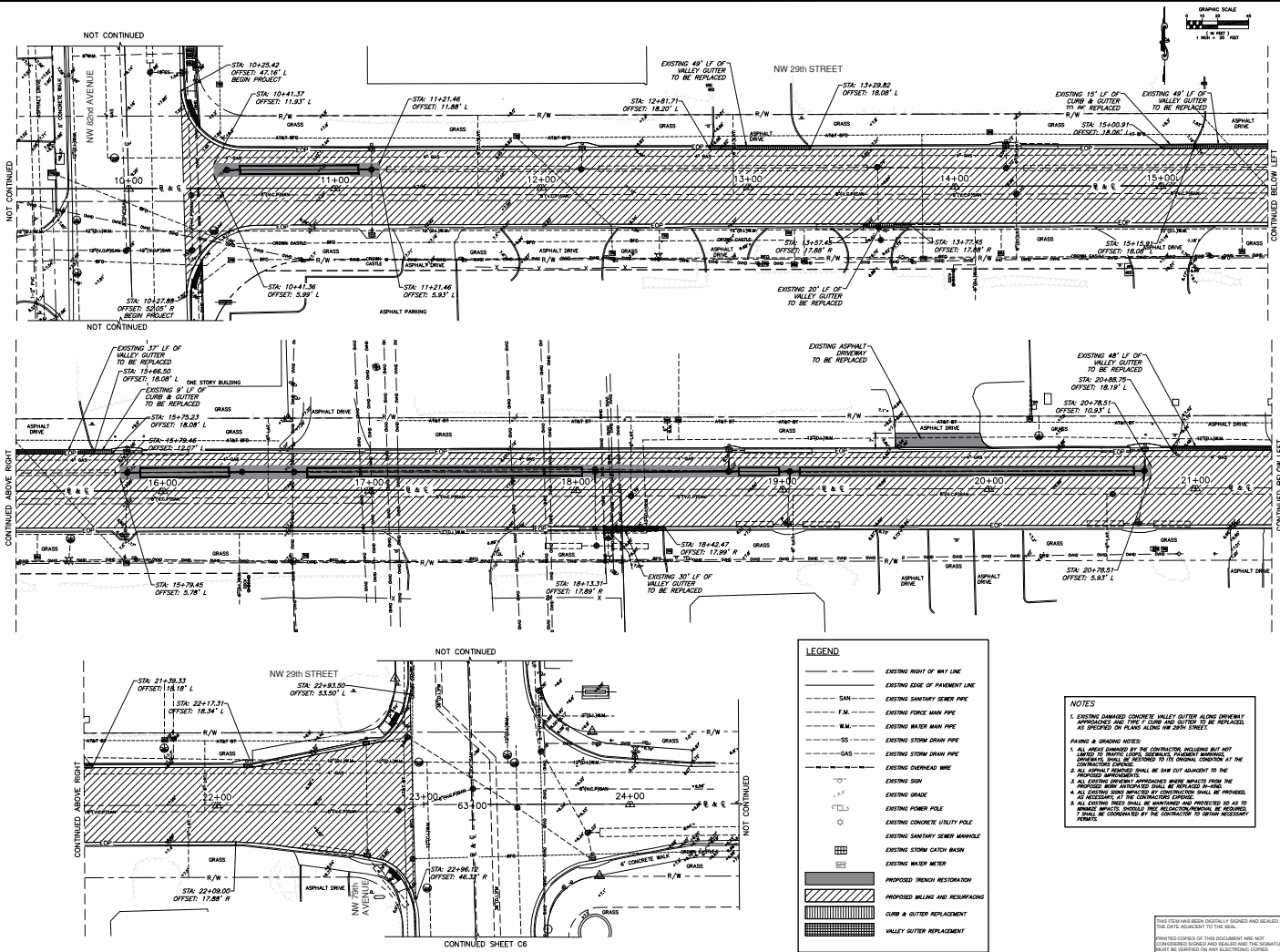


360 ENGINEERING & CONSTRUCTION  
2222 PINES DR, SUITE 100, CORAL GABLES, FL 33134  
(305) 442-4602

PREPARED BY	DRAWN BY	CHECK BY	APPR. BY
P.S.	J.C.	N.F.	D.J.S

SHEET NO.	DATE	FILE NO.
C4	7/10/2024	

THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



**STORMWATER IMPROVEMENTS TO STORMWATER DRAINAGE AT NW 29th STREET AND NW 75th AVENUE**

**SHEET TITLE**

PAVING & GRADING PLAN

NO.	DATE	REVISIONS	BY
1	07/10/2024	FOR SUBMITTAL	AA
2	07/10/2024	FOR SUBMITTAL	D.S.
3	07/10/2024	FOR SUBMITTAL (PUMP SET)	D.S.
4	07/10/2024	FOR FINITE COMMENTS	D.S.
5	07/10/2024	NO SET	D.S.

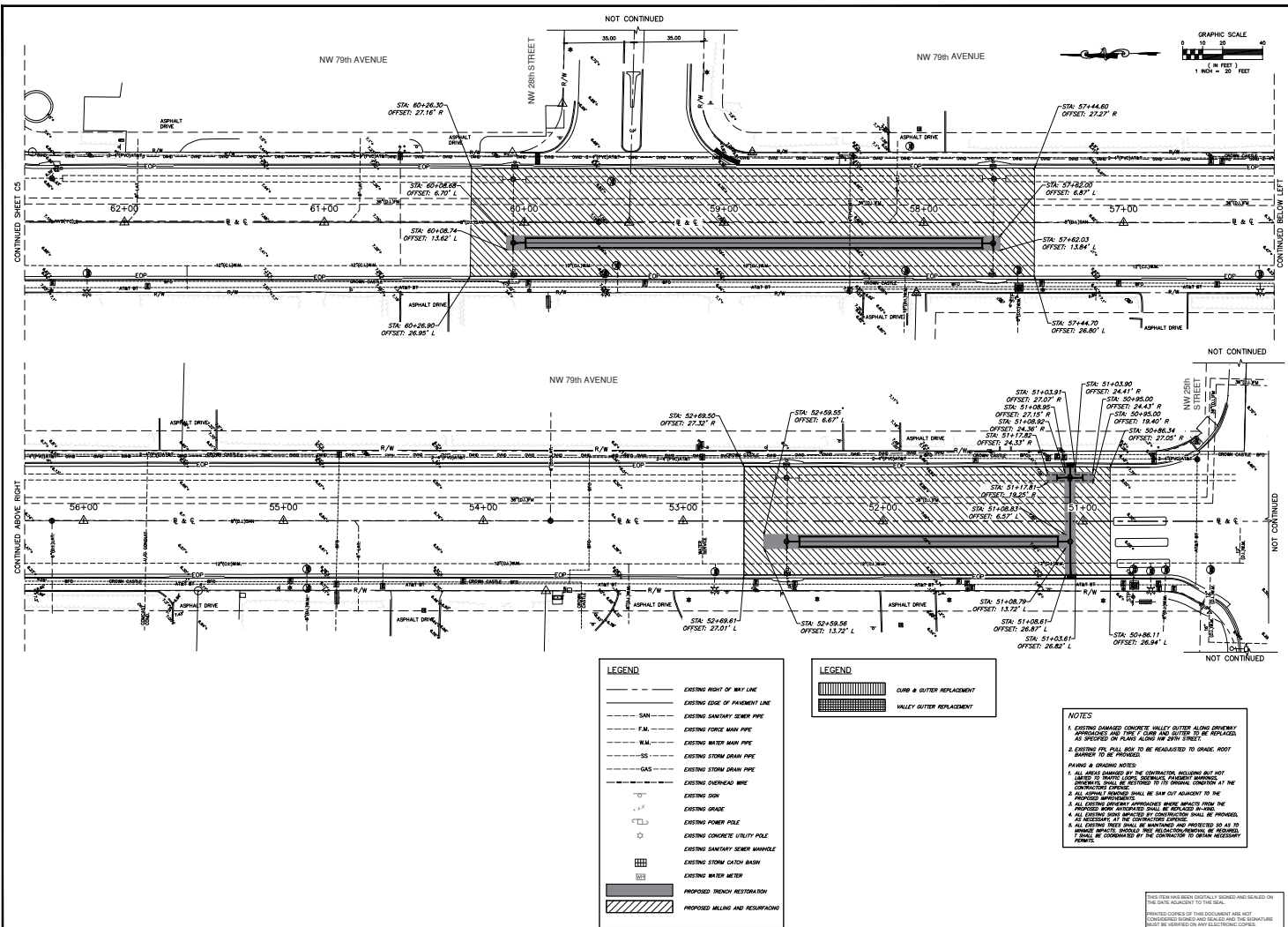
**ENGINEER OF RECORD**

7/10/2024  
Dilan Saldarriaga, P.E.  
Civil Engineer  
State of Florida - License No. 90408  
2222 Pines Bl. Lane, Suite 100, Coral Gables, FL 33134  
(305) 446-4600

**CONSULTANT**

300 Engineering  
2222 Pines Bl. Lane, Suite 100, Coral Gables, FL 33134  
(305) 446-4600

PRG.	DRW.	CHK.	APP.
PA	1/2	NF	D.S.
SCALE	1/2"	1/2"	1/2"
SHEET NO.	C5	FILE NO.	7/10/2024



**STORMWATER IMPROVEMENTS TO SUBBASINS D-3-1 AT NW 79TH STREET AND NW 79TH AVENUE**

**SHEET TITLE**

**PAVING & GRADING PLAN**

NO.	DATE	REVISIONS	BY
1	5/15/2024	FOR SUBMISSION	AA
2	6/10/2024	FOR SUBMISSION	DJS
3	6/10/2024	FOR SUBMISSION (PUMP SET)	DJS
4	6/10/2024	FOR PAVING COMMENTS	DJS
5	7/10/2024	NO SET	DJS

**ENGINEER OF RECORD**

**7/10/2024**  
Dilan Saldanha, P.E.  
Civil Engineer  
State of Florida - License No. 90406  
2222 Pines St. Suite 100, Coral Gables, FL 33134  
(305) 442-4600

**CONSULTANT**

**300 CONSULTING**  
2222 Pines St. Suite 100, Coral Gables, FL 33134  
(305) 442-4600

**PROJECT: DRAINAGE CHECK** **APP: DJS**  
**SCALE: 1"=20'** **DATE: 7/10/2024**  
**SHEET NO. 130** **FILE NO. C6**

- LEGEND**
- EXISTING RIGHT OF WAY LINE
  - EXISTING EDGE OF PAVEMENT LINE
  - SAN - - - - - EXISTING SANITARY SEWER PIPE
  - F.M. - - - - - EXISTING FORCE MAIN PIPE
  - W.M. - - - - - EXISTING WATER MAIN PIPE
  - SS - - - - - EXISTING STORM DRAIN PIPE
  - CAS - - - - - EXISTING CATCH BASIN
  - EXISTING OVERHEAD PIPE
  - EXISTING GRADE
  - EXISTING CONCRETE UTILITY POLE
  - EXISTING SANITARY SEWER MANHOLE
  - EXISTING STORM CATCH BASIN
  - EXISTING WATER METER
  - PROPOSED TRENCH RESTORATION
  - PROPOSED MILLING AND RECONSTRUCTION

- LEGEND**
- CURB & GUTTER REPLACEMENT
  - VALLEY GUTTER REPLACEMENT

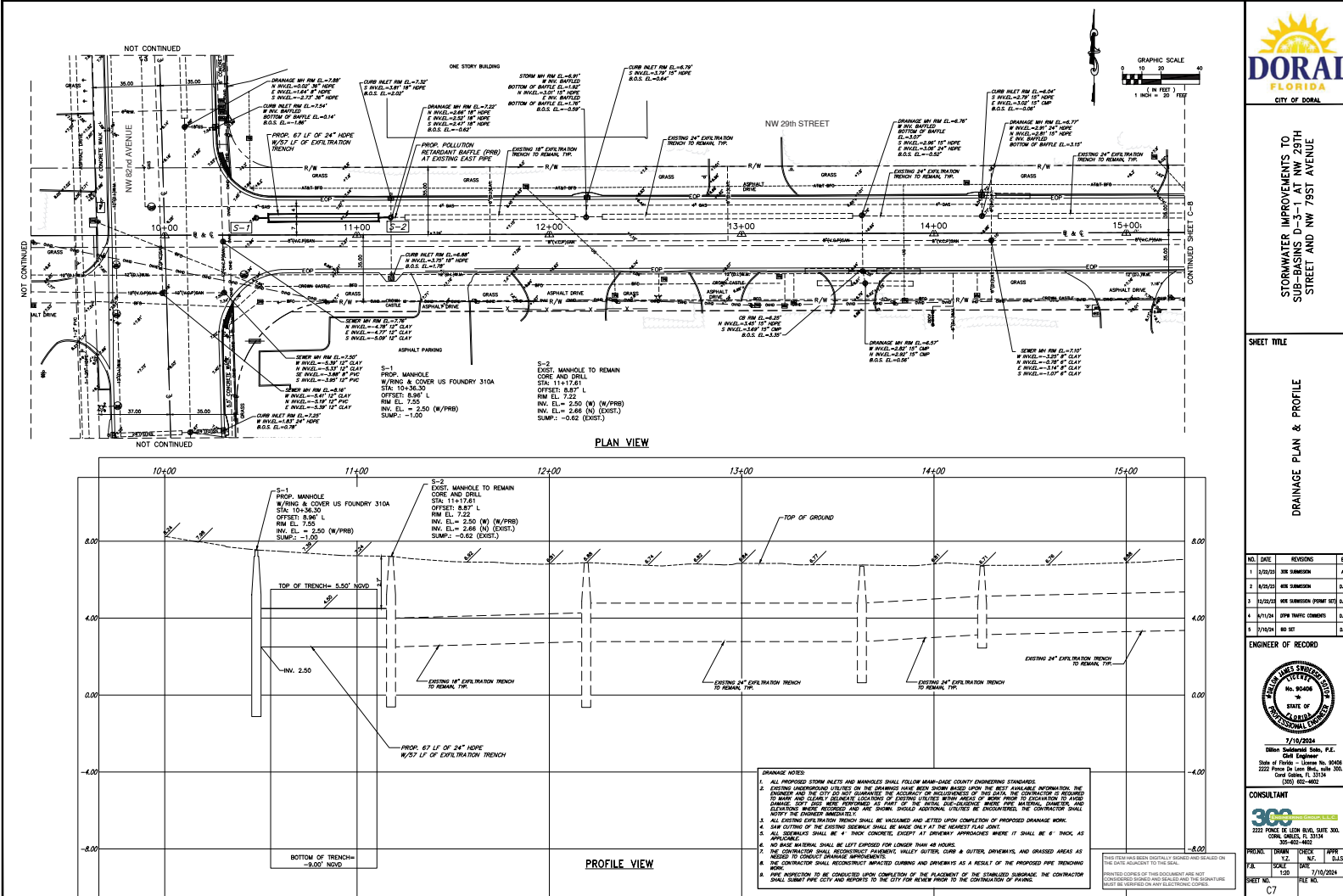
**NOTES**

- EXISTING DAMAGED CONCRETE VALLEY GUTTER ALONG OVERHEAD APPROACHES AND CURB & GUTTER SHALL BE REPLACED WITH APPROXIMATELY 18" DEEP VALLEY GUTTER AND CURB & GUTTER.
- EXISTING PAV. SHALL BE REGRADUED TO GRADE, ROOT REMOVAL TO BE PROVIDED.
- PAVING & GRADING NOTES:
  - ALL AREAS DAMAGED BY THE CONTRACTOR INCLUDING BUT NOT LIMITED TO: EXISTING PAV. SHALL BE REGRADUED TO GRADE, ROOT REMOVAL TO BE PROVIDED.
  - ALL EXISTING DAMAGED PAV. SHALL BE REGRADUED TO GRADE, ROOT REMOVAL TO BE PROVIDED.
  - ALL EXISTING DAMAGED PAV. SHALL BE REGRADUED TO GRADE, ROOT REMOVAL TO BE PROVIDED.
  - ALL EXISTING DAMAGED PAV. SHALL BE REGRADUED TO GRADE, ROOT REMOVAL TO BE PROVIDED.
  - ALL EXISTING DAMAGED PAV. SHALL BE REGRADUED TO GRADE, ROOT REMOVAL TO BE PROVIDED.

THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE RIGHT.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED VALID UNLESS THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.







**STORMWATER IMPROVEMENTS TO  
SECTIONS 0+35 - AT NW 29TH  
STREET AND NW 79TH AVENUE**

**SHEET TITLE**

**DRAINAGE PLAN & PROFILE**

NO.	DATE	REVISIONS	BY
1	07/10/2024	REV SHEET	AK
2	07/10/2024	REV SHEET	D.S.
3	07/10/2024	REV SHEET (PERM SET)	D.S.
4	07/10/2024	REV SHEET (CONTRACT)	D.S.
5	07/10/2024	REV SET	D.S.

**ENGINEER OF RECORD**



7/10/2024  
Dora S. Soto, P.E.  
Civil Engineer  
State of Florida - License No. 12345  
2222 Pines Bl. SW, Suite 100  
Fort Myers, FL 33901  
(813) 456-7890

**CONSULTANT**



360 ENGINEERING & CONSTRUCTION  
2222 Pines Bl. SW, Suite 100, Fort Myers, FL 33901  
(813) 456-7890

PREP.	DRAWN	CHECK	APPV.
AK	D.S.	D.S.	D.S.

SHEET NO. 139 DATE 7/10/2024  
C7



STORMWATER IMPROVEMENTS TO  
SECTIONS D-3-S AT NW 29TH  
STREET AND NW 795TH AVENUE

SHEET TITLE  
DRAINAGE PLAN & PROFILE

NO.	DATE	REVISIONS	BY
1	1/17/2024	FOR SUBMITTAL	AK
2	1/17/2024	FOR SUBMITTAL	DLS
3	1/17/2024	FOR SUBMITTAL	SET
4	1/17/2024	FOR SUBMITTAL	SET
5	1/17/2024	FOR SUBMITTAL	SET

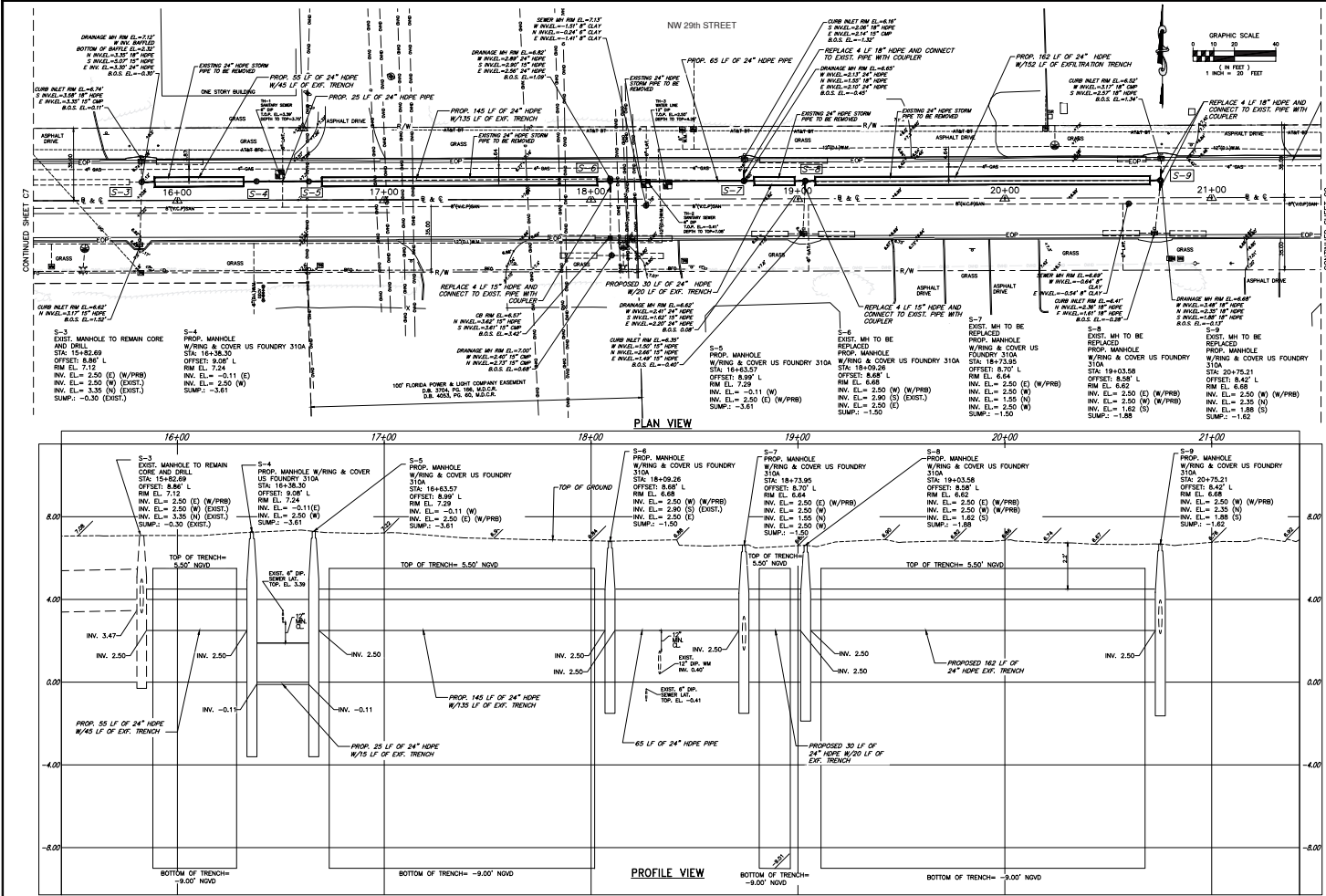
ENGINEER OF RECORD

7/10/2024  
Dillon Salsgarden, P.E.  
Civil Engineer  
State of Florida - License No. 90408  
2222 Pines Dr. Suite 100, Boca Raton, FL 33433  
(561) 993-4600

CONSULTANT

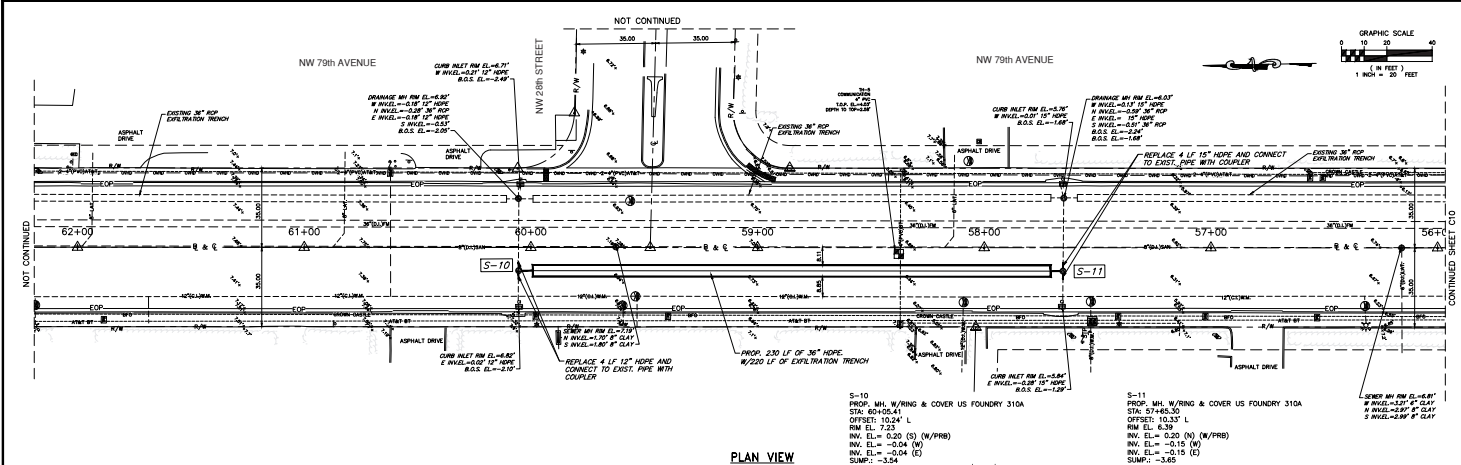
300 ENGINEERS  
2222 Pines Dr. Suite 100, Boca Raton, FL 33433  
(561) 993-4600

PROJECT: DRAINAGE IMPROVEMENTS TO SECTIONS D-3-S AT NW 29TH STREET AND NW 795TH AVENUE  
DATE: 1/17/2024  
SHEET NO. 130  
FILE NO. C8

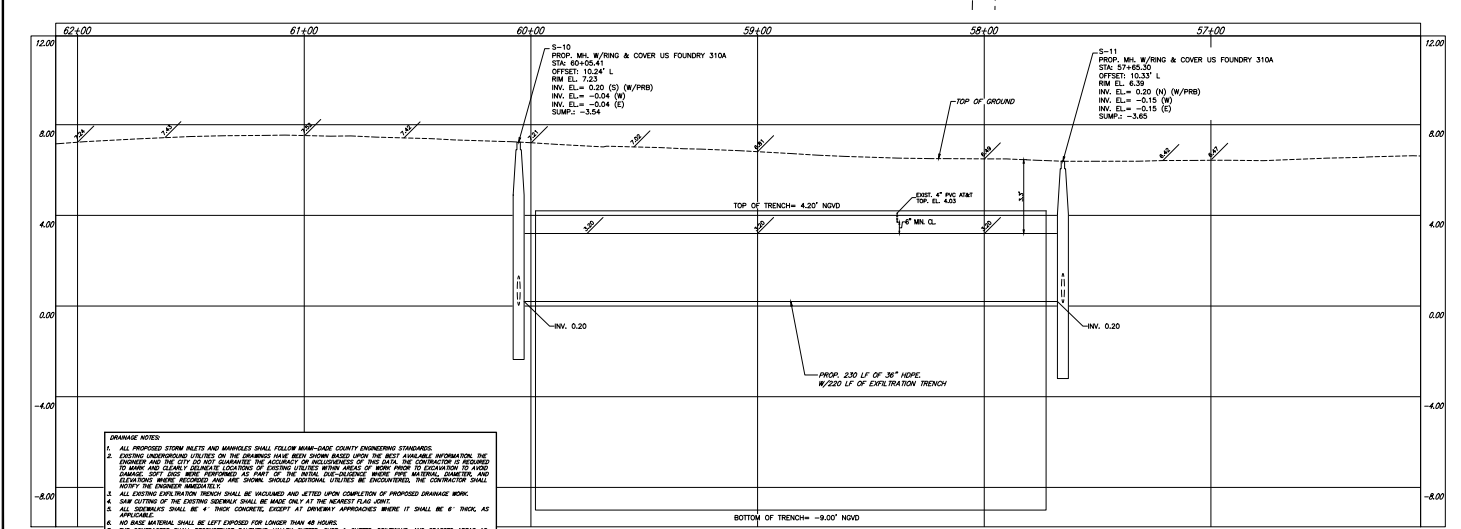


- DRAINAGE NOTES:**
- ALL PROPOSED STORM INLETS AND MANHOLES SHALL FOLLOW MIAMI-DADE COUNTY ENGINEERING STANDARDS.
  - EXISTING UNDERGROUND UTILITIES IN THE DRAINAGE ARE BEING SHOWN BASED UPON THE BEST AVAILABLE INFORMATION. THE ENGINEER AND THE CITY DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THIS DATA. THE CONTRACTOR IS ADVISED TO MAINTAIN CLEARLY DELINEATED LOCATIONS OF EXISTING UTILITIES WITHIN AREAS OF WORK PRIOR TO EXCAVATION TO AVOID DAMAGE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
  - ADDITIONAL UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
  - ALL EXISTING EXHAUSTION TRENCH SHALL BE RECONSTRUCTED AND ADJUSTED UPON COMPLETION OF PROPOSED DRAINAGE WORK.
  - THE EXISTING EXHAUSTION TRENCH SHALL BE RECONSTRUCTED AND ADJUSTED UPON COMPLETION OF PROPOSED DRAINAGE WORK.
  - ALL SIDEWALKS SHALL BE 4" THICK CONCRETE, EXCEPT AT DRIVEWAY APPROACHES WHERE IT SHALL BE 6" THICK, AS APPLICABLE.
  - NO EXISTING SIDEWALK SHALL BE LEFT EXPOSED FOR LONGER THAN 90 DAYS.
  - THE CONTRACTOR SHALL RECONSTRUCT DRIVEWAY APPROACHES TO THE PROPOSED PIPE TRENCHES.
  - THE CONTRACTOR SHALL RECONSTRUCT DRIVEWAY APPROACHES TO THE PROPOSED PIPE TRENCHES.
  - PIPE INSPECTION TO BE CONDUCTED UPON COMPLETION OF THE PLACEMENT OF THE STABILIZED SUBGRADE. THE CONTRACTOR SHALL SUBMIT PIPE CCTV AND REPORTS TO THE CITY FOR REVIEW PRIOR TO THE CONTINUATION OF PAVING.





PLAN VIEW



PROFILE VIEW

- DRAINAGE NOTES:**
1. ALL PROPOSED DRAINAGE SYSTEMS SHALL FOLLOW MINIMUM DRAINAGE STANDARDS.
  2. EXISTING UNDERGROUND UTILITIES ON THE DRAWING HAVE BEEN SHOWN BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR AND THE CITY DO NOT WARRANT THE ACCURACY OR COMPLETENESS OF THIS DATA. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY AND THE STATE OF FLORIDA.
  3. ALL EXISTING EXHAUSTION TRENCHES SHALL BE RECONSTRUCTED AND JETTED UPON COMPLETION OF PROPOSED DRAINAGE WORK.
  4. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST PLANT JOINT.
  5. ALL SIDEWALKS SHALL BE 4" THICK CONCRETE, EXCEPT AT DRIVEWAYS APPROXIMATED WHERE IT SHALL BE 6" THICK, AS APPLICABLE.
  6. NO BASE MATERIAL SHALL BE LEFT EXPOSED FOR LONGER THAN 48 HOURS.
  7. THE CONTRACTOR SHALL RECONSTRUCT PAVEMENT, VALLEY, DITCH, CURB & GUTTER, SIDEWALKS, AND GRADED AREAS AS NEEDED TO CONDUCT DRAINAGE IMPROVEMENTS.
  8. THE CONTRACTOR SHALL RECONSTRUCT IMPROVED CURBS AND SIDEWALKS AS A RESULT OF THE PROPOSED PIPE REPAIRING WORK.
  9. PIPE INSPECTION TO BE CONDUCTED UPON COMPLETION OF THE EXHAUSTION SURROUND. THE CONTRACTOR SHALL SUBMIT PIPE CCTV AND REPORTS TO THE CITY FOR REVIEW PRIOR TO THE CONTINUATION OF PAVING.

THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE LEFT.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**DORAL**  
FLORIDA  
CITY OF DORAL

**STORMWATER IMPROVEMENTS TO  
SECTIONS 0+3- AT NW 79TH  
STREET AND NW 79TH AVENUE**

**SHEET TITLE**

**DRAINAGE PLAN & PROFILE**

NO.	DATE	REVISIONS	BY
1	07/10/2024	FOR SUBMISSION	AA
2	07/10/2024	FOR SUBMISSION	DAS
3	07/10/2024	FOR SUBMISSION (PERMIT SET)	DAS
4	07/10/2024	FOR PERMIT COMMENTS	DAS
5	07/10/2024	NO SET	DAS

**ENGINEER OF RECORD**

**Dillon Salsomendi**  
Civil Engineer  
State of Florida - License No. 94008  
2222 Pines St. Suite 100, Fort Lauderdale, FL 33304  
(954) 462-4600

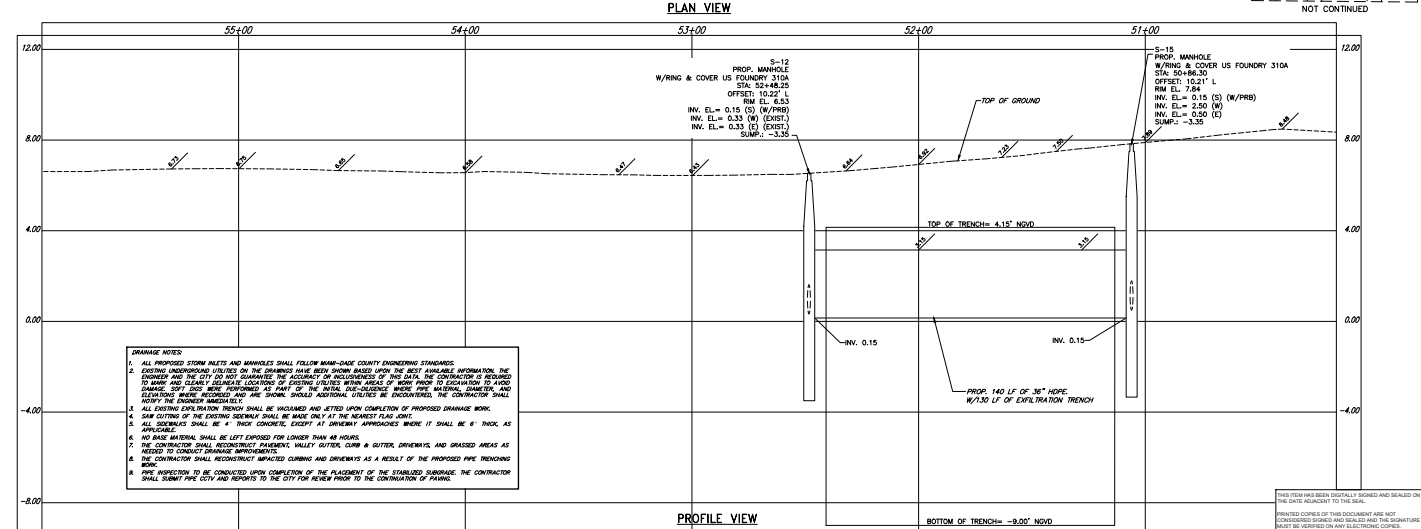
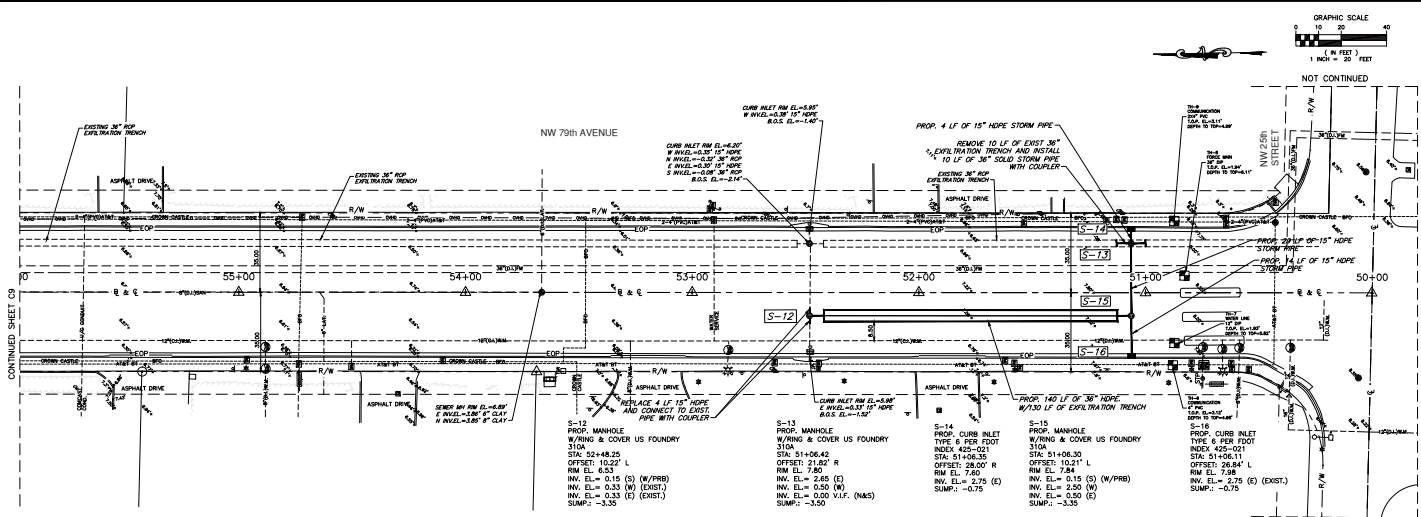
**CONSULTANT**

**360 ENGINEERING**  
2222 Pines St. Suite 100, Fort Lauderdale, FL 33304  
(954) 462-4600

PREP.	DRAWN	CHECK	INPR.
AA	AA	AA	DAS


SHEET NO. **C9** OF **12**

DATE: **7/10/2024**



**DRAINAGE NOTES**

1. ALL PROPOSED STORM INLETS AND MANHOLES SHALL FOLLOW MIAMI-DADE COUNTY ENGINEERING STANDARDS.
2. EXISTING UNDERGROUND UTILITIES ON THE DRAWINGS HAVE BEEN SHOWN BASED UPON THE BEST AVAILABLE INFORMATION. THE PROVIDER AND THE CITY DO NOT GUARANTEE THE ACCURACY OR RELIABILITY OF THIS DATA. THE CONTRACTOR IS REQUESTED TO MARK AND CLEAR ALL EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY PRIOR TO CONSTRUCTION TO AVOID DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
3. ALL EXISTING EXFILTRATION TRENCHES SHALL BE VACUATED AND JETTED UPON COMPLETION OF PROPOSED DRAINAGE WORK.
4. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG POLE.
5. ALL SIDEWALKS SHALL BE 4\"/>



**DORAL**  
FLORIDA  
CITY OF DORAL


**STORMWATER IMPROVEMENTS TO  
STATIONS 0+35- AT NW 79TH  
STREET AND NW 78ST AVENUE**

**SHEET TITLE**

**DRAINAGE PLAN & PROFILE**


NO.	DATE	REVISIONS	BY:
1	5/21/24	FOR SUBMISSION	AA
2	6/10/24	FOR SUBMISSION	D.A.S.
3	6/25/24	FOR SUBMISSION (PERMIT SET)	D.A.S.
4	6/27/24	FOR INTRIC COMMENTS	D.A.S.
5	7/10/24	NO SET	D.A.S.

**ENGINEER OF RECORD**



7/10/2024  
Dilan Saldarriaga, P.E.  
Civil Engineer  
State of Florida - License No. 94008  
2222 Pines Dr. Suite 200, Coral Gables, FL 33134  
(305) 461-4601

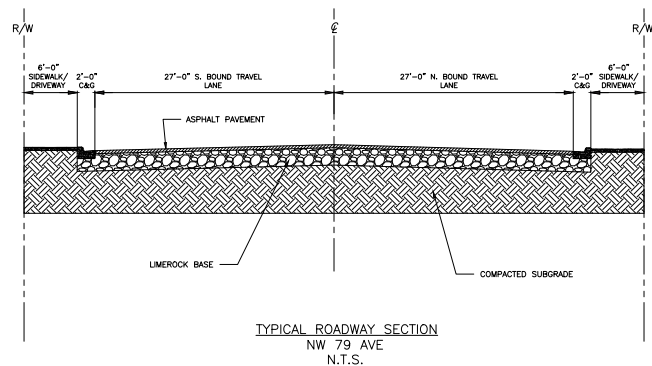
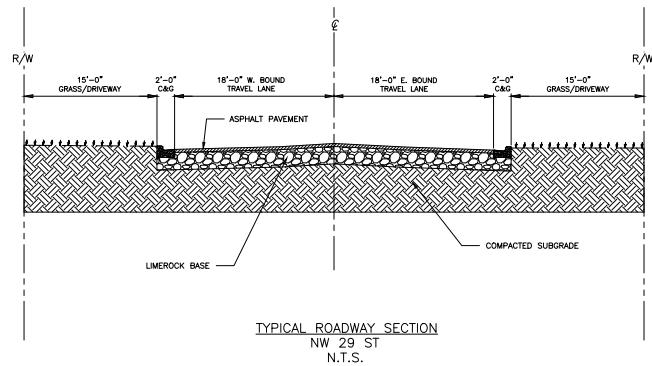
**CONSULTANT**



360 ENGINEERING  
2222 Pines Dr. Suite 200, Coral Gables, FL 33134  
(305) 461-4601

PREP.	DRAWN	CHECK	APPV.
FA	FA	FA	D.A.S.
SHEET NO.	139	DATE	7/10/2024
		FILE NO.	

C10



THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED ON THIS DATE ADJUNCT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



STORMWATER IMPROVEMENTS TO  
SECTIONS 0'-3' AT NW 79TH  
STREET AND NW 79ST AVENUE

SHEET TITLE

TYPICAL ROADWAY SECTIONS

NO.	DATE	REVISIONS	BY
1	04/01/24	FOR SUBMISSION	AA
2	04/01/24	FOR SUBMISSION	D.S.
3	04/01/24	FOR SUBMISSION (PERMIT SET)	D.S.
4	04/01/24	FOR FINANCIAL COMMENTS	D.S.
5	04/01/24	FOR SET	D.S.

ENGINEER OF RECORD



7/10/2024  
Dillon Subramanian, P.E.  
Civil Engineer  
State of Florida - License No. 90408  
2222 Pines Dr. Suite 100, Coral Gables, FL 33134  
(305) 442-4800

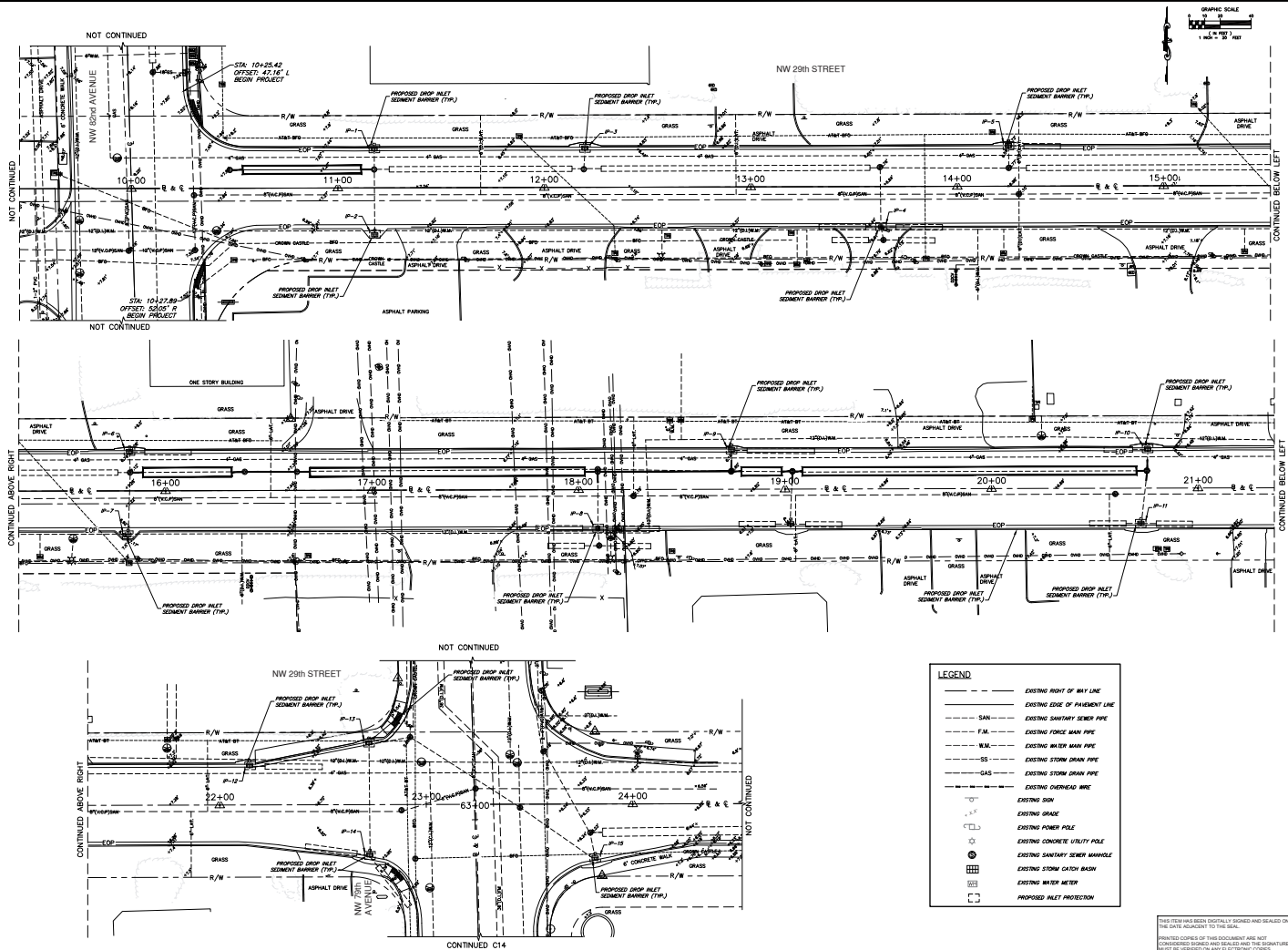
CONSULTANT



PROJECT	DRWN	CHECK	APPV
P.S.	SCALE	DATE	FILE NO.
	1:50	7/10/2024	

C11







**DORAL**  
FLORIDA  
CITY OF DORAL

**STORMWATER IMPROVEMENTS TO  
SECTIONS 0+35- AT NW 29TH  
STREET AND NW 75TH AVENUE**

**SHEET TITLE**

**STORMWATER POLLUTION  
PREVENTION PLANS**

NO.	DATE	REVISIONS	BY
1	1/15/24	FOR SUBMISSION	AK
2	1/15/24	FOR SUBMISSION	D.S.
3	1/15/24	FOR SUBMISSION (PUMP SET)	D.S.
4	1/15/24	FOR TRAFFIC CONTROL	D.S.
5	1/15/24	NO SET	D.S.

**ENGINEER OF RECORD**



7/10/2024  
Dillon Substantiated Seal, P.E.  
Civil Engineer  
State of Florida - License No. 94008  
2222 Pines Bl. NW, Suite 100, Coral Gables, FL 33134  
(305) 442-4600

**CONSULTANT**

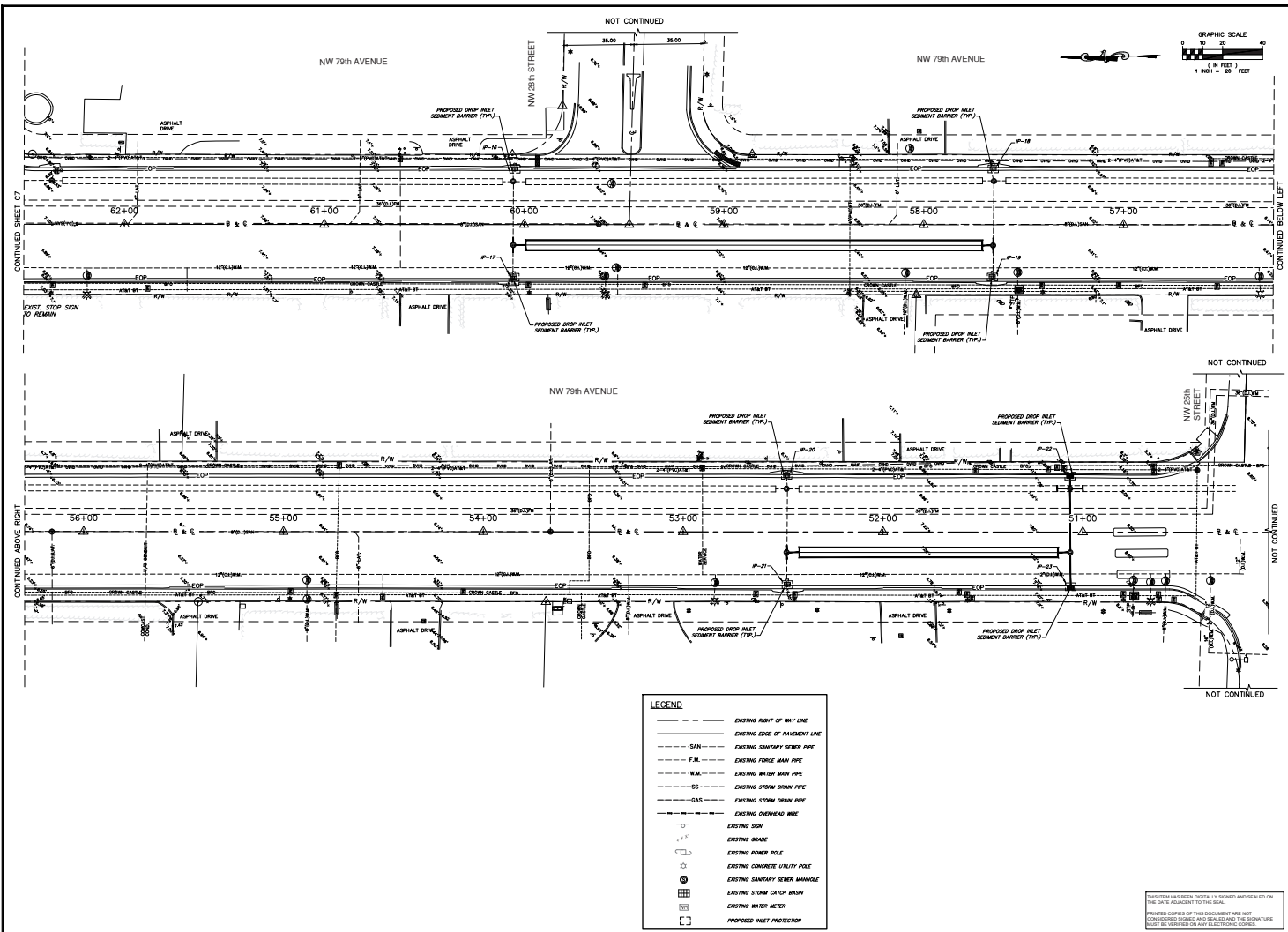



300 ENGINEERING  
2222 Pines Bl. NW, Suite 100, Coral Gables, FL 33134  
(305) 442-4600

PROJECT	DRAWN	CHECK	DATE	APPV
STORMWATER IMPROVEMENTS TO SECTIONS 0+35- AT NW 29TH STREET AND NW 75TH AVENUE	AK	D.S.	7/10/2024	D.S.

C13

THIS PLAN HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.






**STORMWATER IMPROVEMENTS TO SECTIONS D-3-1 AT NW 25TH STREET AND NW 79TH AVENUE**

**SHEET TITLE**

**STORMWATER POLLUTION PREVENTION PLANS**


NO.	DATE	REVISIONS	BY
1	5/21/24	REV SANITARY	AK
2	6/15/24	REV SANITARY	D.S.
3	6/25/24	REV SANITARY PERMIT SET	D.S.
4	6/11/24	REV TRAFFIC COMMENTS	D.S.
5	7/10/24	NO SET	D.S.

**ENGINEER OF RECORD**



7/10/2024  
Dillon Subramanian, P.E.  
Civil Engineer  
State of Florida - License No. 90408  
2222 Pines Dr. Suite 200, Coral Gables, FL 33134  
(305) 442-4601

**CONSULTANT**



360 ENGINEERING  
2222 Pines Dr. Suite 200, Coral Gables, FL 33134  
(305) 442-4601

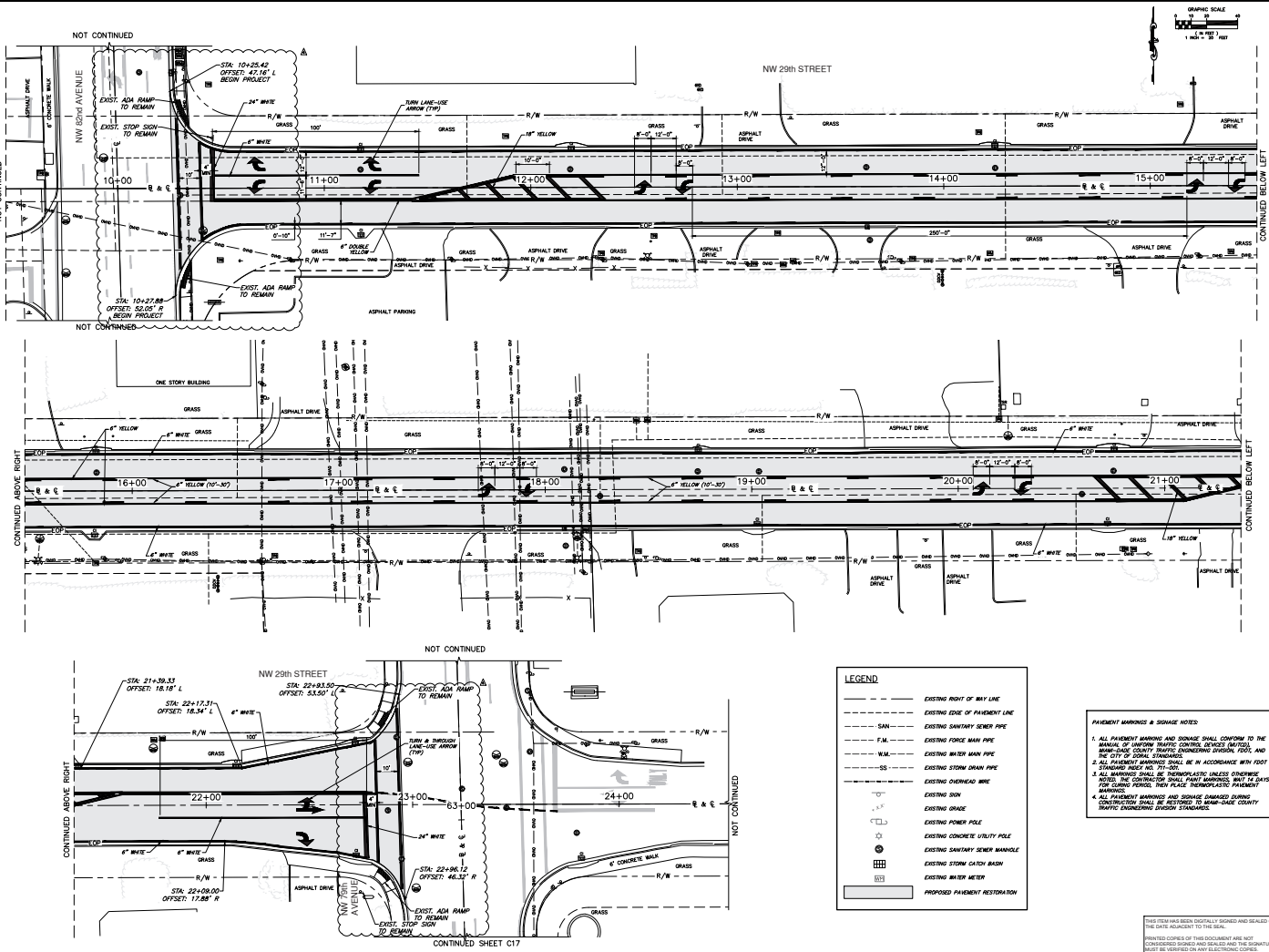
PREP.	DRAWN	CHECK	APPV.
FS	SCALE	1/2"	1/2"
SHEET NO.	139	DATE	7/10/2024
		FILE NO.	

C14

THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.







**LEGEND**

---	EXISTING RIGHT OF WAY LINE
---	EXISTING EDGE OF PAVEMENT LINE
---	EXISTING SANITARY SEWER PIPE
---	EXISTING FORCE MAIN PIPE
---	EXISTING WATER MAIN PIPE
---	EXISTING STORM DRAIN PIPE
---	EXISTING CHIMNEY PIPE
---	EXISTING SIGN
---	EXISTING GRADE
---	EXISTING POWER POLE
---	EXISTING CONCRETE UTILITY POLE
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM CATCH BASIN
---	EXISTING WATER METER
---	PROPOSED PAVEMENT RESTORATION

**PAVEMENT MARKINGS & SIGNAGE NOTES:**

1. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), EIGHTH EDITION, AND THE CITY OF DORAL STANDARDS.
2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH FDOT STANDARD PRACTICE AND PROVIDED.
3. ALL MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PLACE MARKINGS, PAINT & BAYS FOR CURBS, POLES, TRAIL PILES, THERMOPLASTIC PAVEMENT MARKINGS.
4. ALL PAVEMENT MARKINGS AND SIGNAGE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BMAP-STATE COUNTY TRAFFIC ENGINEERING DESIGN STANDARDS.

THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE INDICATED TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**DORAL**  
FLORIDA  
CITY OF DORAL

**STORMWATER IMPROVEMENTS TO SIDEWALKS 0+35- AT NW 29TH STREET AND NW 28TH AVENUE**

**SHEET TITLE**

**PAVEMENT MARKING & SIGNAGE PLANS**

NO.	DATE	REVISIONS	BY
1	07/10/2024	REV. SIGNED	AA
2	07/10/2024	REV. SIGNED	D.S.
3	07/10/2024	REV. SIGNED (PLOT SET)	D.S.
4	07/10/2024	REV. TRAFFIC COMMENTS	D.S.
5	07/10/2024	REV. SET	D.S.

**ENGINEER OF RECORD**

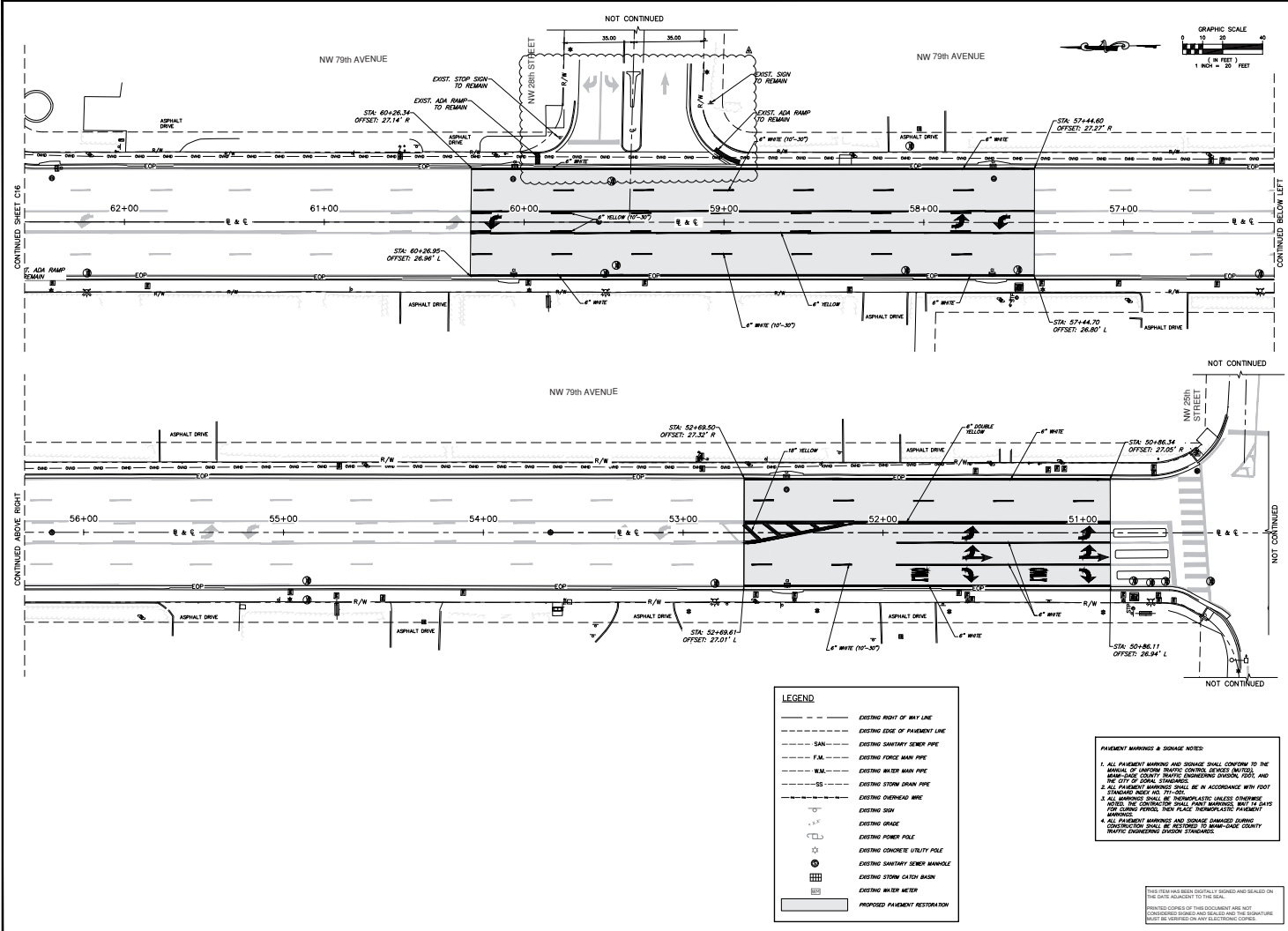
7/10/2024  
Dilan Subramanian, P.E.  
Civil Engineer  
State of Florida - License No. 94008  
2222 Pines Bl. Lane, Suite 100, Coral Gables, FL 33134  
(305) 442-4603

**CONSULTANT**

300 ENGINEERING  
2222 Pines Bl. Lane, Suite 100, Coral Gables, FL 33134  
(305) 442-4603

PREP.	DRAWN	CHECK	APPV.
FA	1/2	1/2	D.S.
SHEET NO.	130	FILE NO.	

C16



**LEGEND**

---	EXISTING RIGHT OF WAY LINE
---	EXISTING EDGE OF PAVEMENT LINE
---	EXISTING SANITARY SEWER PIPE
---	EXISTING FORCE MAIN PIPE
---	EXISTING WATER MAIN PIPE
---	EXISTING STORM DRAIN PIPE
---	EXISTING OVERHEAD WIRE
---	EXISTING SIGN
---	EXISTING GRADE
---	EXISTING POWER POLE
---	EXISTING CONCRETE UTILITY POLE
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM CATCH BASIN
---	EXISTING WATER METER
---	PROPOSED PAVEMENT RESTORATION

**PAVEMENT MARKINGS & SIGNAGE NOTES:**

- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2003 EDITION, AND THE CITY OF DORAL STANDARDS.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH FOOT STANDARD INDEX NO. 171-100.
- ALL SIGNAGE SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SIGNAGE SHALL BE PLACED IN ACCORDANCE WITH THE CITY OF DORAL STANDARDS.
- ALL PAVEMENT MARKINGS AND SIGNAGE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**STORMWATER IMPROVEMENTS TO SUBBASINS D-3-3 AT NW 79TH STREET AND NW 79ST AVENUE**

**SHEET TITLE**

PAVEMENT MARKING & SIGNAGE PLANS

NO.	DATE	REVISIONS	BY:
1	5/15/2024	REV. DRAINAGE	AA
2	6/10/2024	REV. DRAINAGE	DAS
3	6/10/2024	REV. DRAINAGE (PUMP SET)	DAS
4	6/10/2024	REV. TRAFFIC CONTROL	DAS
5	7/10/2024	REV. SET	DAS

**ENGINEER OF RECORD**

7/10/2024  
Dilan Subudianto, P.E.  
Civil Engineer  
State of Florida - License No. 90408  
2222 Pines St. Suite 100, Coral Gables, FL 33134  
(305) 442-4600

**CONSULTANT**

360 ENGINEERING  
2222 Pines St. Suite 100, Coral Gables, FL 33134  
(305) 442-4600

PREP.	DRAWN	CHECK	APPV
FA	SCALE	1:50	DATE
SHEET NO.	130	7/10/2024	FILE NO.

C17