

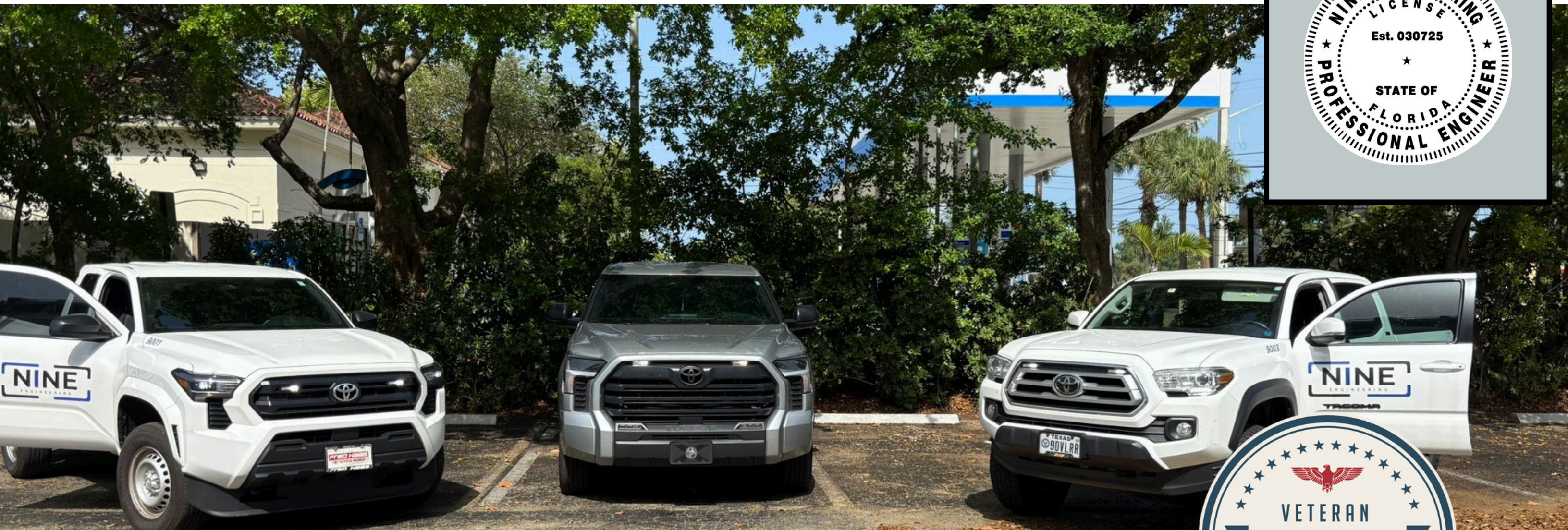
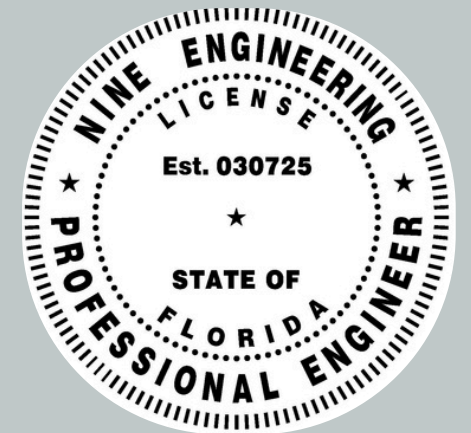


INNOVATIVE ENGINEERING
“ A TURN KEY SOLUTION FOR RIGHT OF WAY PERMITS ”

Drafting & Engineering Services
Subsurface Utility Engineering (SUE)
Natural Gas Designs
Surveying, Site Verification & GPR Utilities Mapping
Temporary Traffic Control (Site Specific Detailed MOT)
Permitting Liaison

Director of Operations

+1 (832) 525 -6758
Orlando.Dager@9eng.com
8751 W. Broward BLVD#505
Plantation, FL 33324



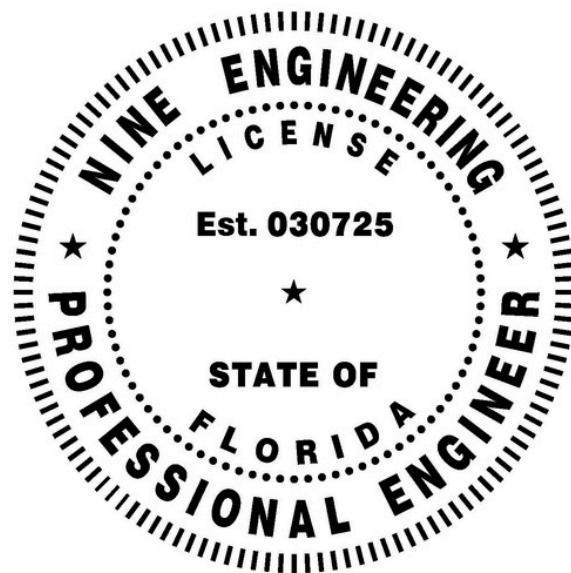
Info@9eng.com

Mission Statement :

At Nine Engineering, we are dedicated to advancing the field of Subsurface Utility Engineering (SUE) through cutting-edge technology and unwavering commitment to public safety. Utilizing industry-leading tools such as Ground Penetrating Radar (GPR) and the Radiodetection RD8200, we deliver accurate, data-driven utility mapping that reduces risk and drives smarter decisions.

We believe that strong, long-term client partnerships are the foundation of every successful project. Through transparency, responsiveness, and technical excellence, we earn trust and build lasting relationships—project after project.

Above all, we prioritize public safety in everything we do, ensuring that critical underground infrastructure is identified, protected, and respected. With precision, integrity, and innovation, we help build safer communities from the ground down.



Info@9eng.com



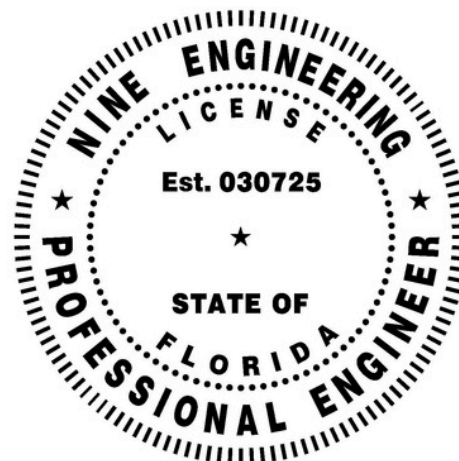
Portfolio of Services

Orlando Dager
Orlando.Dager@9eng.com
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+1 (832) 525-6758

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Ground Penetrating Radar (GPR)

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+1 (832) 525-6758



Certifies that:

Orlando Dager

Completed a Training Course in the Theory and Practice of Applying Subsurface Interface Radar in Engineering and Geophysical Investigations.

UtilityScan®

Christopher Hawekotte
President

Kevin O'Hara
Training Manager

Geophysical Survey Systems, Inc.

40 Simon Street • Nashua, NH 03060-3075
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Introduction

At Nine Engineering, we believe that reliable data is the foundation of every safe and successful project. Our integrated approach to Surveying, Site Verification, and Ground Penetrating Radar (GPR) Mapping provides our clients with the clarity needed for confident decision-making during excavation, design validation, and infrastructure development. Whether you're detecting utilities or preparing for civil works, our methods minimize risk and ensure precision from planning to execution.

Ground Penetrating Radar (GPR) Mapping

GPR technology enables us to detect subsurface structures without excavation. By sending high-frequency radar pulses into the ground, we can identify buried utilities, voids, and material changes.

At Nine Engineering, our GPR services offer:

- Real-time subsurface mapping High-resolution
- anomaly detection Safe utility identification to
- prevent strikes Valuable data for engineering and
- construction teams

We combine cutting-edge hardware and expert interpretation to ensure that every scan results in meaningful, project-ready insights.



Sample of Aerial Survey Map



GPR Reports: Structure and Interpretation

GPR REPORT
8751 W BROWARD BLVD #505
PLANTATION, FL 33325



GPR PATH A.	CONDUIT SIZE	TYPE OF UTILITY	DEPTH	COMMENTS
50'	2"	TELECOM	5' +/-	Approx. 6' W of E Sidewalk

GPR MARKER	REFERENCE POINT A	REFERENCE POINT B	STATION NUMBER	TYPE OF UTILITY	DEPTH OF UTILITY	COMMENTS
START A.	20' (N) of N EOP	6' (W) of E SW	0+00			20' North of N EOP
A.1	1' (S) of N EOP	6' (W) of E SW	0+21	AT&T	3' +/-	6' West of E Sidewalk
A.2	3' (S) of N EOP	6' (W) of E SW	0+23	SD	1' +/-	6' West of E Sidewalk
A.3	5' (S) of N EOP	6' (W) of E SW	0+25	TV	2' +/-	6' West of E Sidewalk
A.4	10' (S) of N EOP	6' (W) of E SW	0+30	SS	3' +/-	6' West of E Sidewalk
A.5	14' (S) of N EOP	6' (W) of E SW	0+34	G	2' +/-	6' West of E Sidewalk
A.6	16' (S) of N EOP	6' (W) of E SW	0+36	WM	1.5' +/-	6' West of E Sidewalk
END A.	13' (S) of S EOP	6' (W) of E SW	0+50			13' South of S EOP

GPR PATH B.	CONDUIT SIZE	TYPE OF UTILITY	DEPTH	COMMENTS
440'	2"	TELECOM	5' +/-	Approx. 2' S of N Edge of Pavement

GPR MARKER	REFERENCE POINT A	REFERENCE POINT B	STATION NUMBER	TYPE OF UTILITY	DEPTH OF UTILITY	COMMENTS
START B.	3' (E) of W SW	2' (S) of N EOP	0+00			3' (E) of W front of Sidewalk
B.1	12' (E) of W SW	2' (S) of N EOP	0+09	SD	1' +/-	12' (E) of W front of Sidewalk
B.2	27' (E) of W SW	2' (S) of N EOP	0+24	SS	3' +/-	27' (E) of W front of Sidewalk
B.3	35' (E) of W SW	2' (S) of N EOP	0+32	WM	1.5' +/-	25' (E) of W front of Sidewalk
B.4	125' (E) of W SW	2' (S) of N EOP	1+22	WM	1.5' +/-	125' (E) of W front of Sidewalk
B.5	129' (E) of W SW	2' (S) of N EOP	1+26	SS	3' +/-	129' (E) of W front of Sidewalk
B.6	148' (E) of W SW	2' (S) of N EOP	1+45	G	2' +/-	148' (E) of W front of Sidewalk
B.7	191' (E) of W SW	2' (S) of N EOP	1+88	G	2' +/-	191' (E) of W front of Sidewalk
B.8	221' (E) of W SW	2' (S) of N EOP	2+18	WM	1.5' +/-	221' (E) of W front of Sidewalk
B.9	253' (E) of W SW	2' (S) of N EOP	2+50	G	2' +/-	253' (E) of W front of Sidewalk
B.10	273' (E) of W SW	2' (S) of N EOP	2+70	SS	3' +/-	273' (E) of W front of Sidewalk
B.11	285' (E) of W SW	2' (S) of N EOP	2+82	WM	1.5' +/-	285' (E) of W front of Sidewalk
B.12	293' (E) of W SW	2' (S) of N EOP	2+90	TV	2' +/-	293' (E) of W front of Sidewalk
B.13	345' (E) of W SW	2' (S) of N EOP	3+42	WM	1.5' +/-	345' (E) of W front of Sidewalk
B.14	354' (E) of W SW	2' (S) of N EOP	3+51	G	2' +/-	354' (E) of W front of Sidewalk
B.15	368' (E) of W SW	2' (S) of N EOP	3+65	WM	1.5' +/-	368' (E) of W front of Sidewalk

GPR PATH B.	CONDUIT SIZE	TYPE OF UTILITY	DEPTH	COMMENTS
440'	2"	TELECOM	5' +/-	Approx. 2' S of N Edge of Pavement

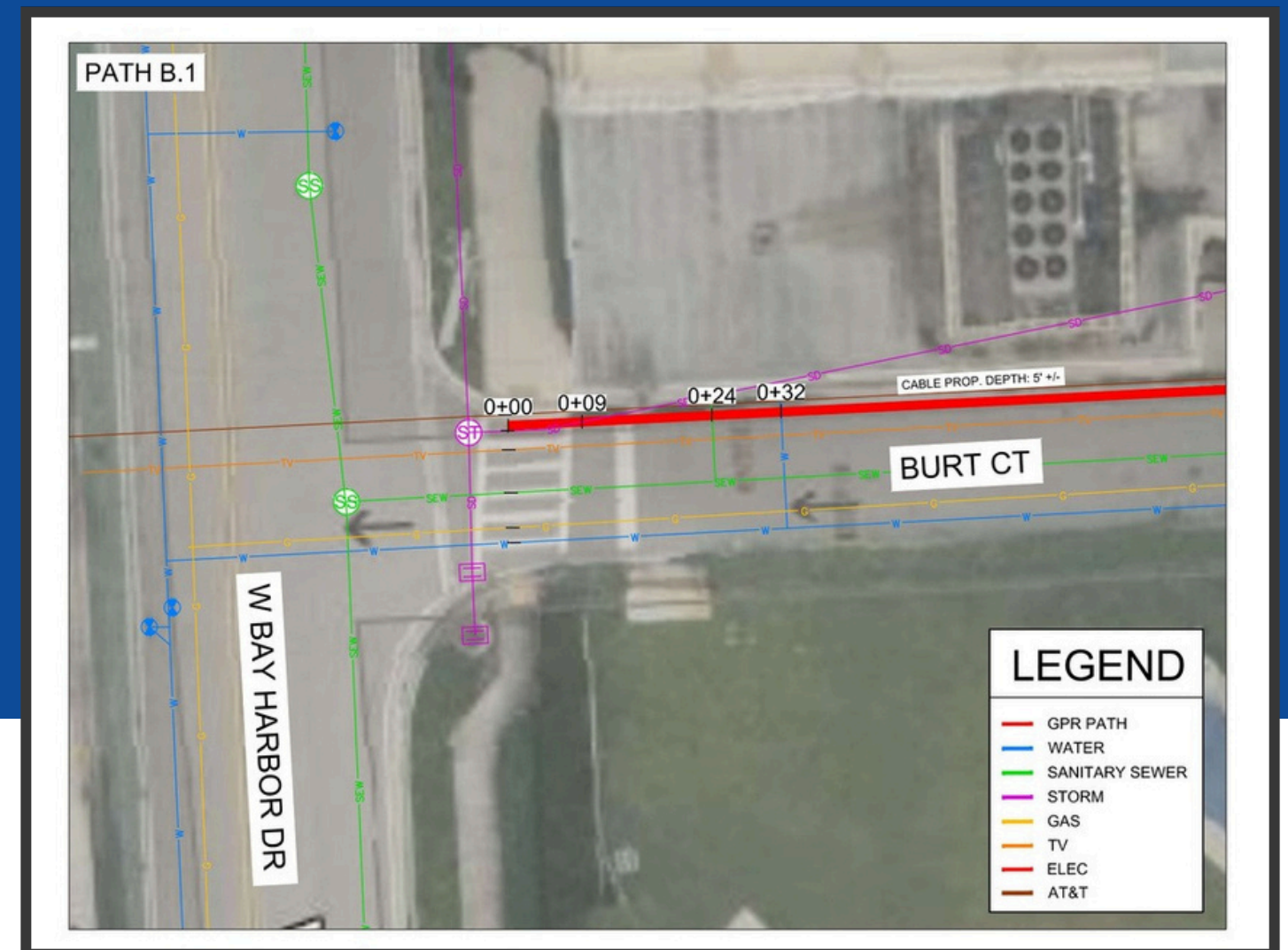
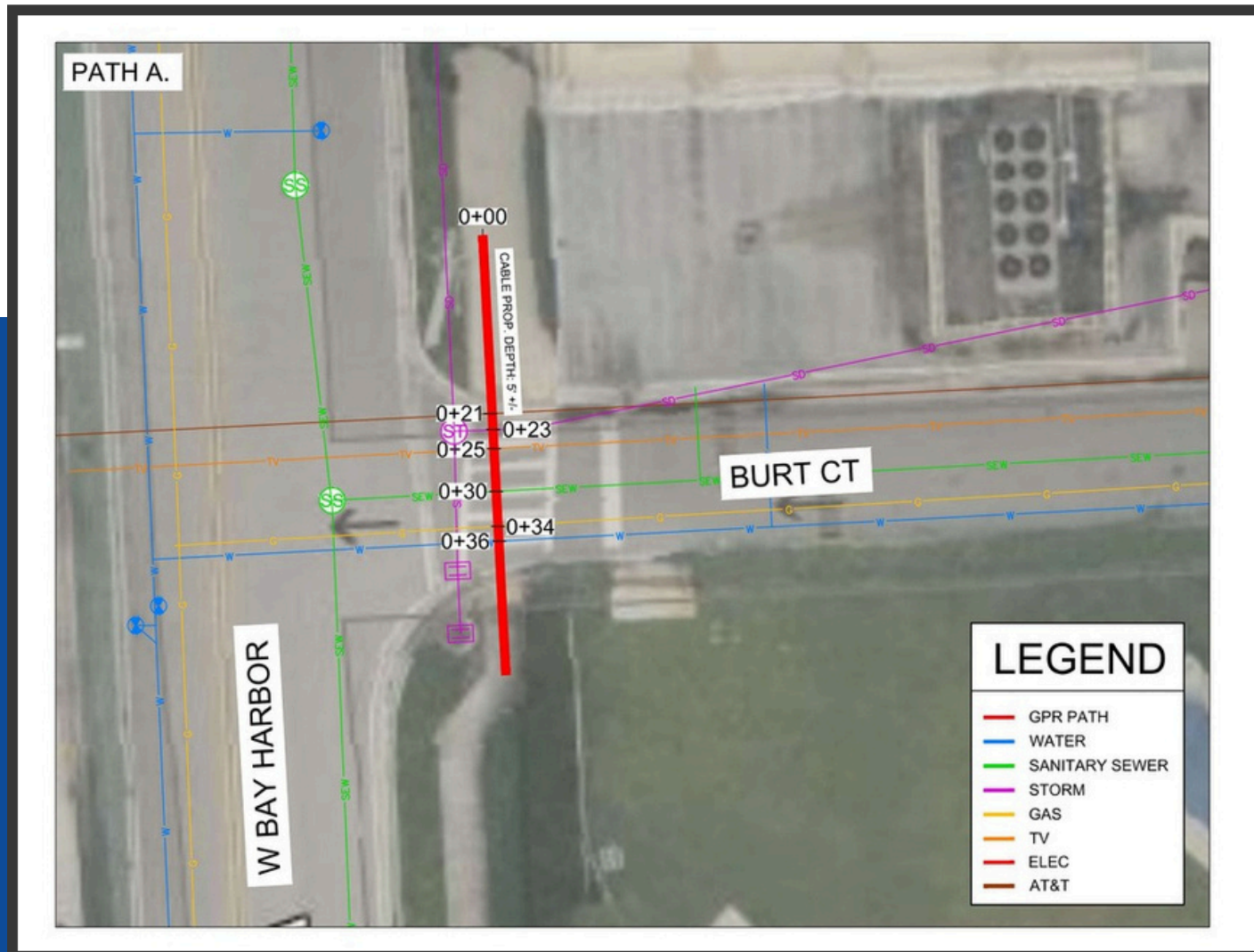
GPR MARKER	REFERENCE POINT A	REFERENCE POINT B	STATION NUMBER	TYPE OF UTILITY	DEPTH OF UTILITY	COMMENTS
B.16	373' (E) of W SW	2' (S) of N EOP	3+70	SS	3' +/-	373' (E) of W front of Sidewalk
B.17	401' (E) of W SW	2' (S) of N EOP	3+98	G	2' +/-	401' (E) of W front of Sidewalk
B.18	427' (E) of W SW	2' (S) of N EOP	4+24	SS	3' +/-	427' (E) of W front of Sidewalk
B.19	439' (E) of W SW	2' (S) of N EOP	4+36	WM	1.5' +/-	439' (E) of W front of Sidewalk
B.20	443' (E) of W SW	2' (S) of N EOP	4+40	ELEC	2' +/-	443' (E) of W front of Sidewalk
END. B	443' (E) of W SW	2' (S) of N EOP	4+40			443' (E) of W front of Sidewalk

GPR PATH A.	CONDUIT SIZE	TYPE OF UTILITY	DEPTH	COMMENTS
40'	2"	TELECOM	5' +/-	160' West of East Sidewalk

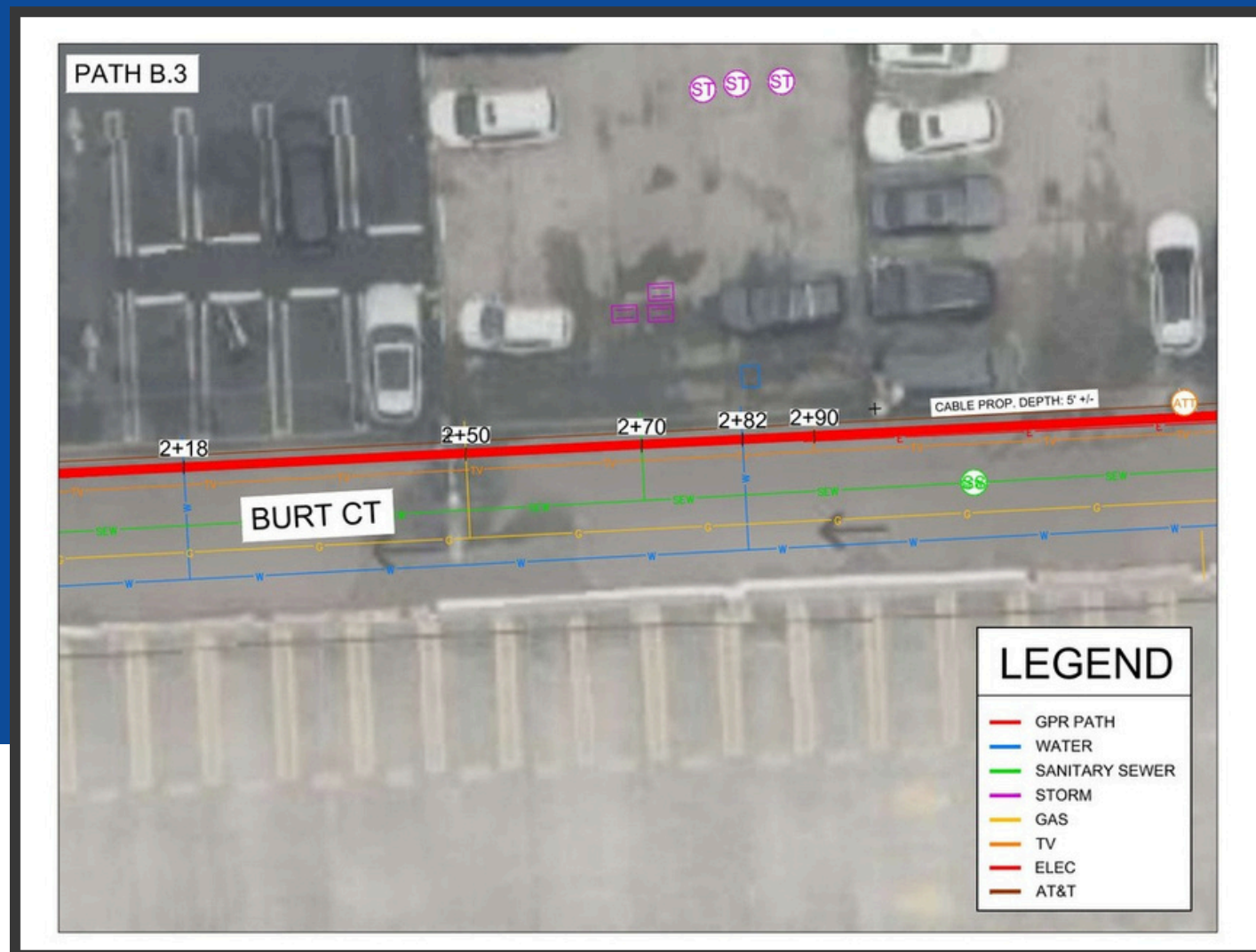
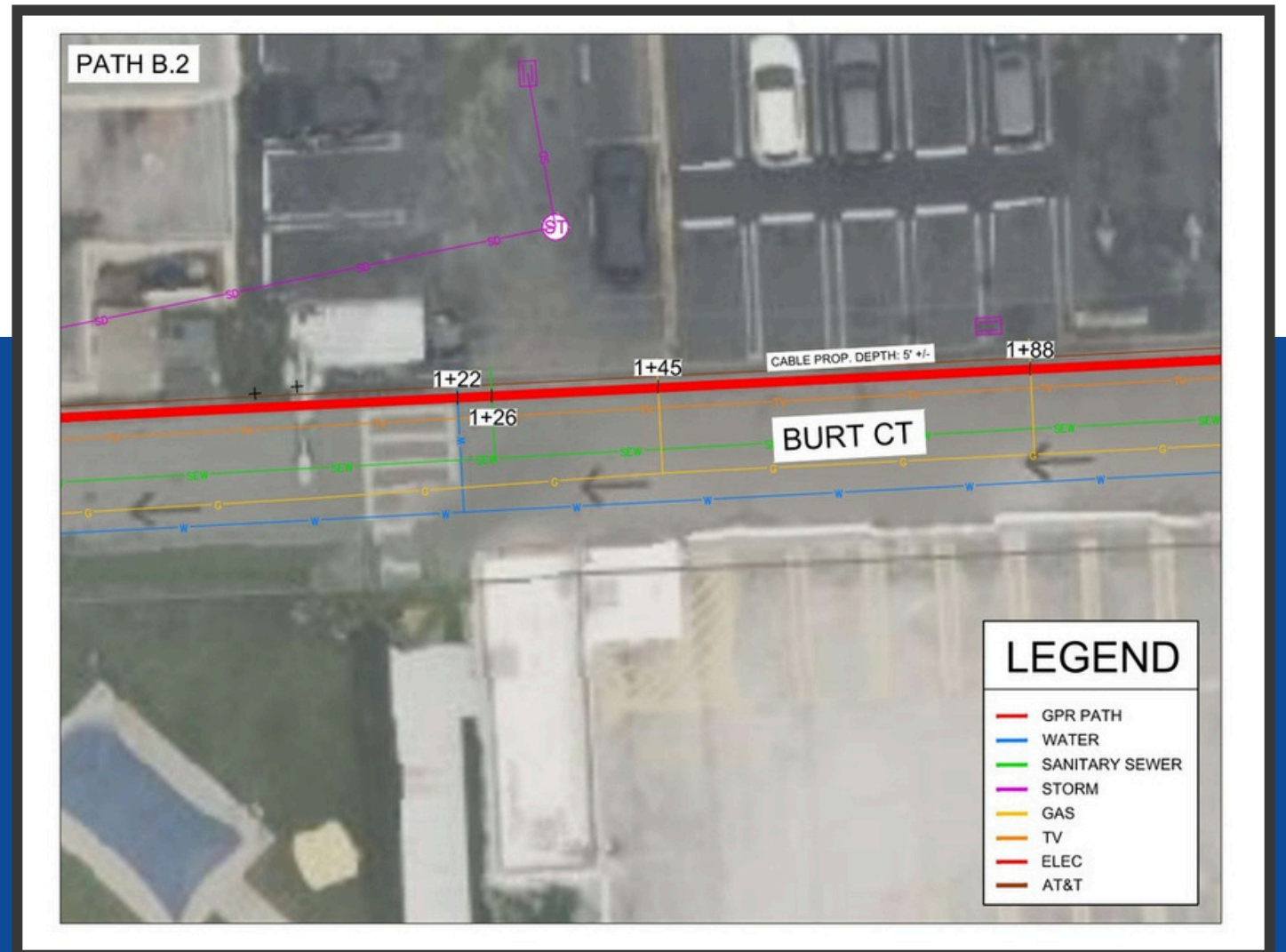
GPR MARKER	REFERENCE POINT A	REFERENCE POINT B	STATION NUMBER	TYPE OF UTILITY	DEPTH OF UTILITY	COMMENTS
START.C	7' (N) of N EOP	160' (W) of E SW	0+00			7' North of N Edge of Pavement
C.1	14' (S) of N EOP	160' (W) of E SW	0+07	AT&T	3' +/-	160' (W) of East Sidewalk
C.2	16' (S) of N EOP	160' (W) of E SW	0+09	ELEC	2' +/-	160' (W) of East Sidewalk
C.3	18' (S) of N EOP	160' (W) of E SW	0+11	TV	2' +/-	160' (W) of East Sidewalk
C.4	22' (S) of N EOP	160' (W) of E SW	0+15	SS	3' +/-	160' (W) of East Sidewalk
C.5	26' (S) of N EOP	160' (W) of E SW	0+19	G	2' +/-	160' (W) of East Sidewalk
C.6	29' (S) of N EOP	160' (W) of E SW	0+22	WM	1.5' +/-	160' (W) of East Sidewalk
END.C	17' (S) of S EOP	160' (W) of E SW	0+40			17' South of S Edge of Pavement



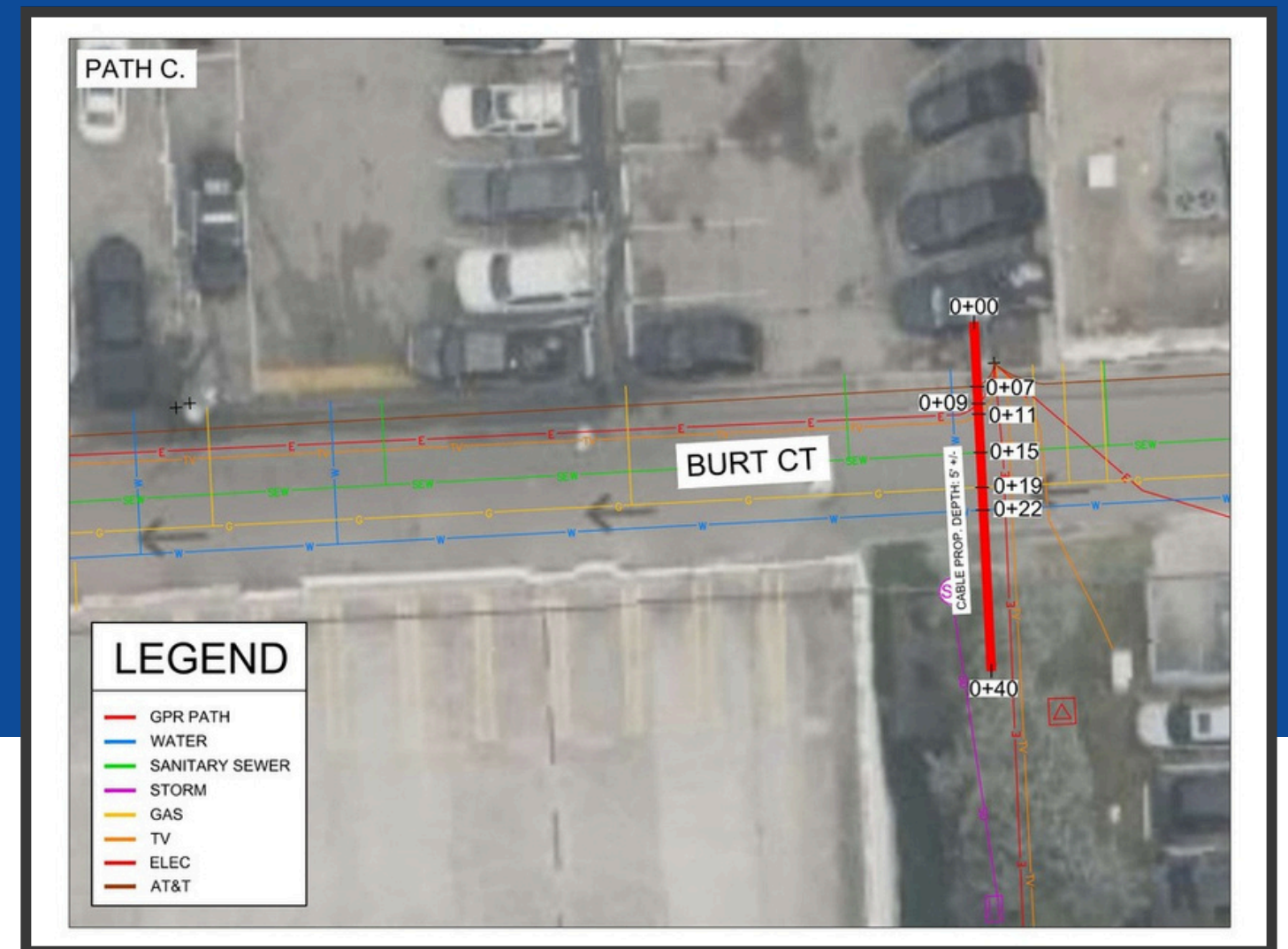
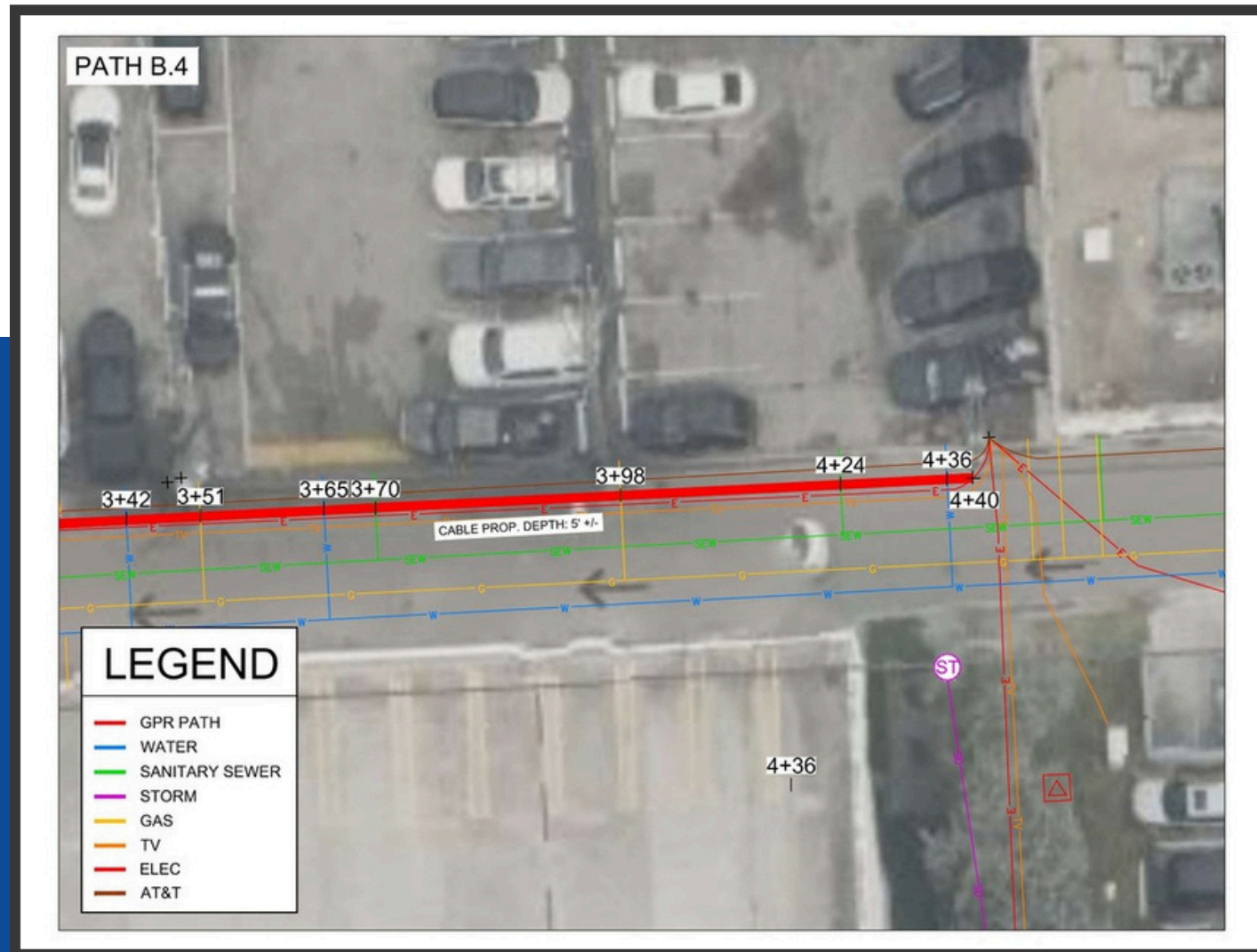
Sample GPR



Sample GPR

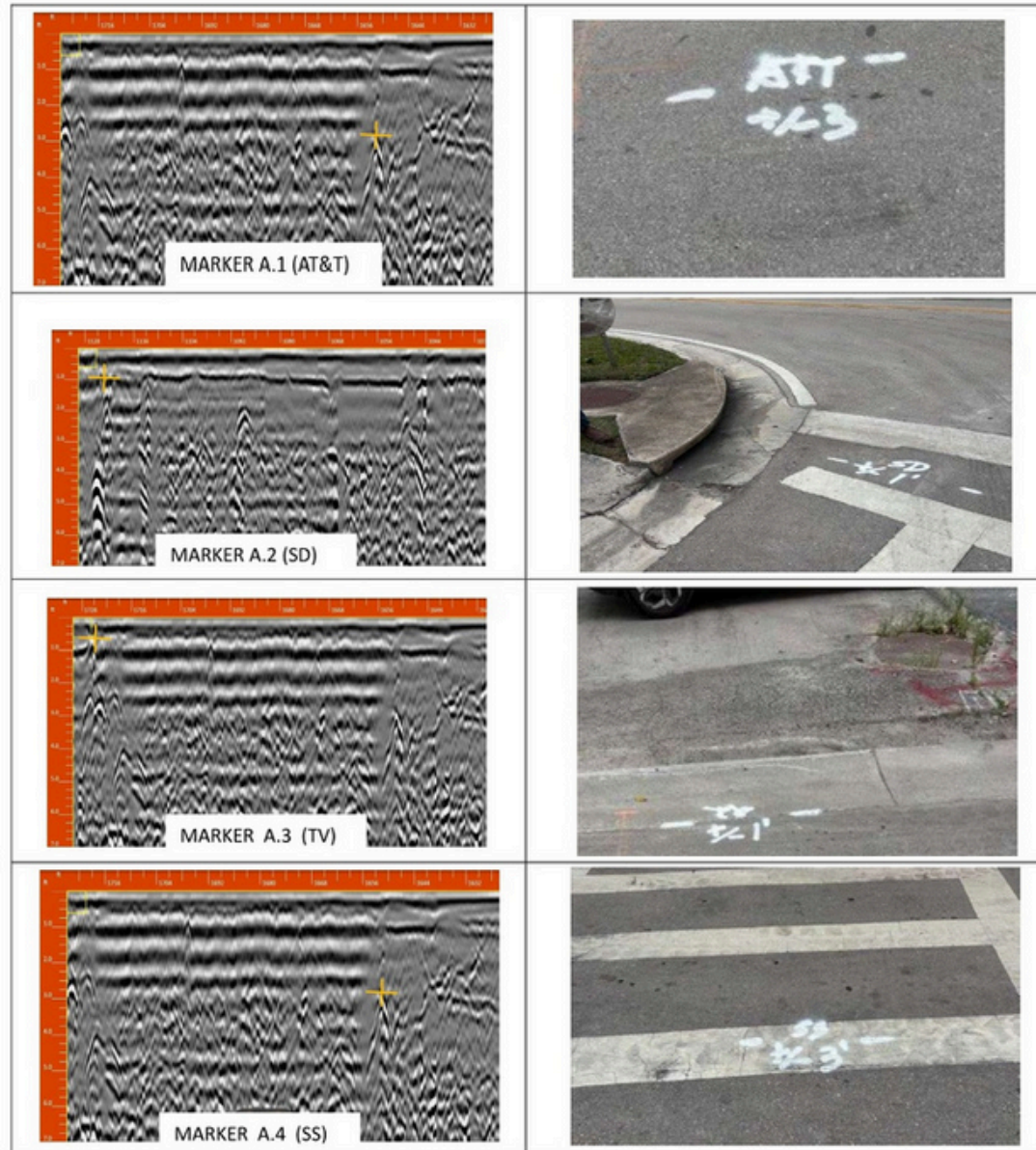


Sample GPR

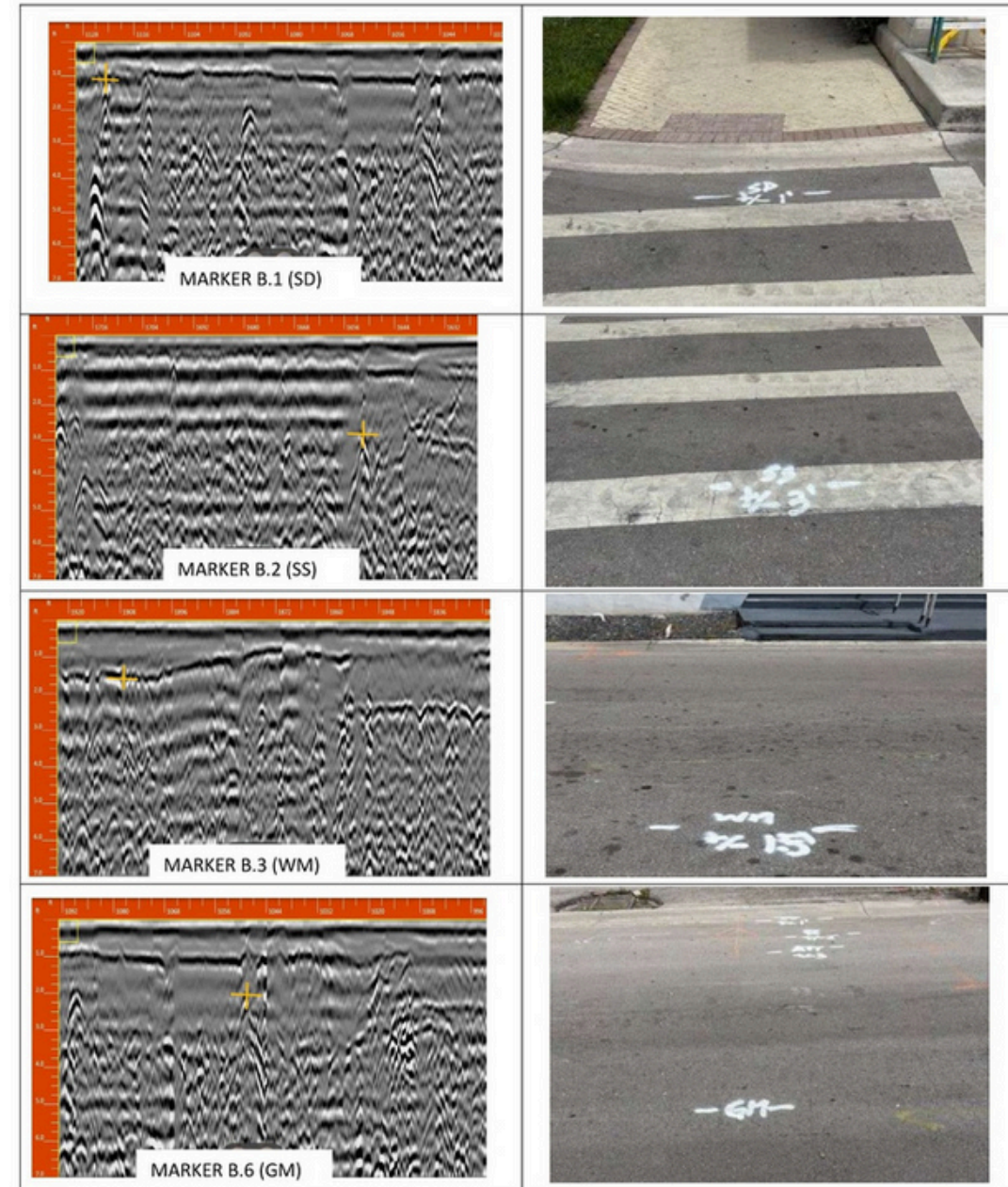


Sample GPR Report

FIELD SURVEY A



FIELD SURVEY B



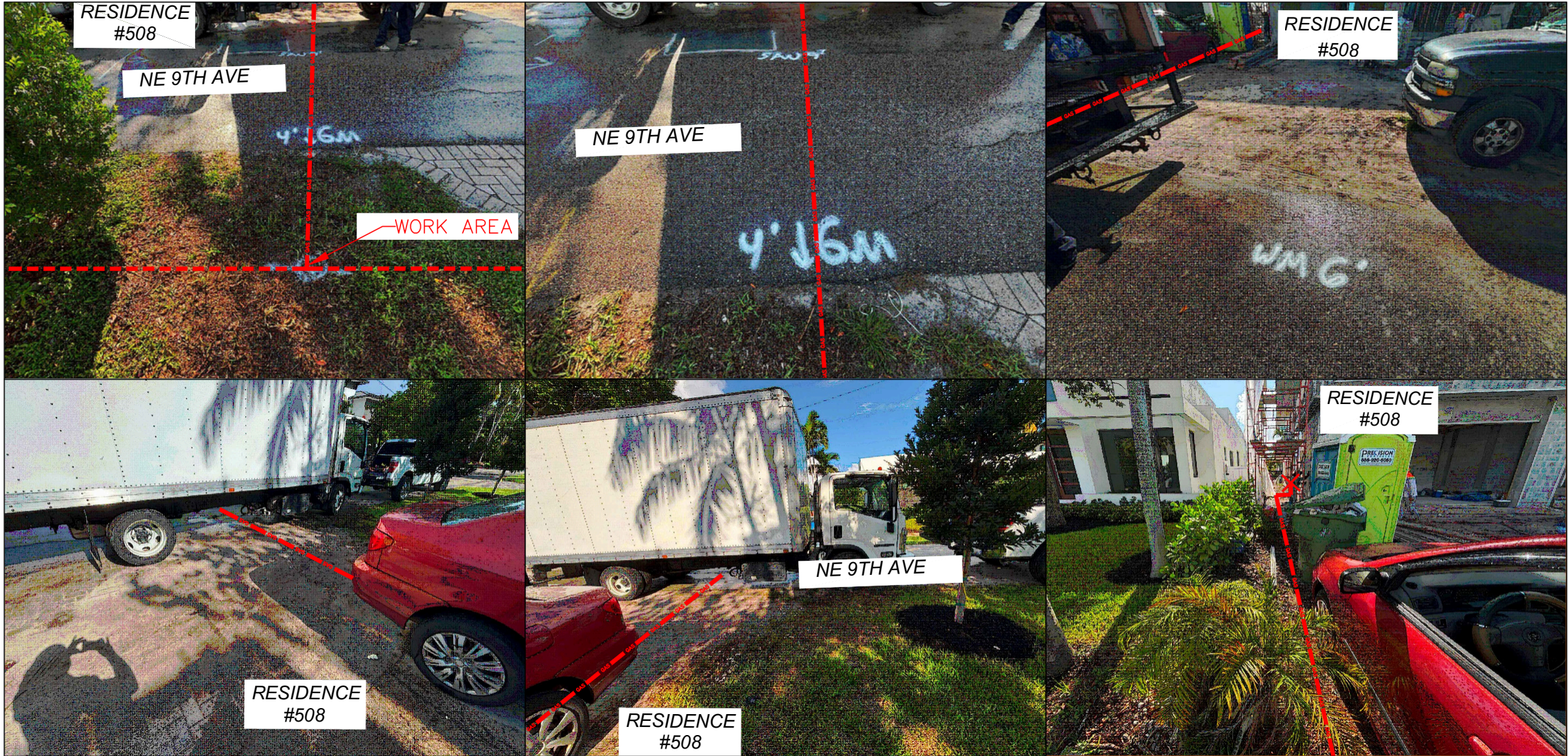
Field Documentation and Reporting



Transparency and traceability define us. Every site visit includes thorough documentation for informed decisions and compliance. Our deliverables—annotated field photos, GPR data visualizations, equipment logs, calibration records, and multi-format reports—mean you get more than data; you get ready-to-use, project-aligned documentation for engineering, permitting, and construction.



Sample GPR Field Pictures



CALL 48 HOURS BEFORE YOU DIG IN FLORIDA IT'S THE LAW! 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.		
REVIEWED BY: <i>David Dugan</i>	DATE: 16-06-2025	
NINE PLANTATION, FL 33324 DANIEL WILLIAMS JR. FL REG # 92921		
PROJECT TYPE:	FIELD PICTURES	
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325		
NO.	DATE	REVISION
NO. OF SHEETS: 4		
SHEET NO.: 3		



Final Notes

Surveying, site verification, and GPR mapping are critical to understanding what lies beneath and around your project site. With Nine Engineering as your partner, you gain access to a robust, data-driven methodology that helps prevent costly mistakes, improve safety, and accelerate project timelines.

Build with confidence. Detect with precision. Trust Nine Engineering.

Natural Gas Designs

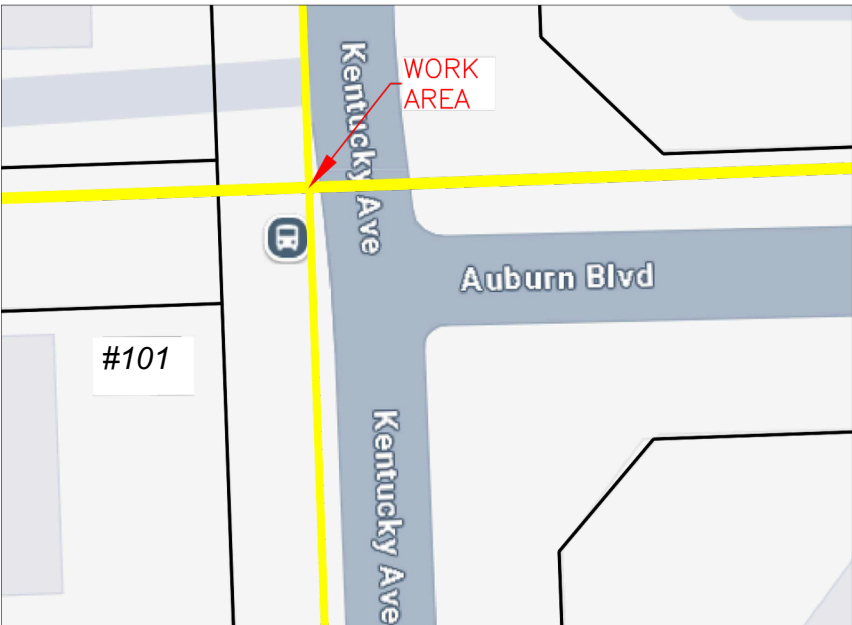
Cathodic Protection

Sample: Cathodic Protection Design



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

- LEGEND
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - MANHOLE
 - FIRE HYDRANT
 - EM ELECTRONIC MARKER
 - INLET PROTECTION
 - LIGHT POLE
 - SANITARY MANHOLE
 - STORM DRAIN MANHOLE
 - CURB INLET
 - WATER VALVE
 - GAS VALVE
 - SEWER VALVE
 - BORE PIT
 - FIRE HYDRANT



LOCATION MAP (N.T.S.)

PREMISE: XXXXXXXX

PROJECT DESCRIPTION:
INSTALL TWO #10 GREEN WIRES AT CROSSING/
INSTALL 2-17# ANODES AND INSTALL CP TEST
POST AT BACK OF SIDEWALK.

INDEX

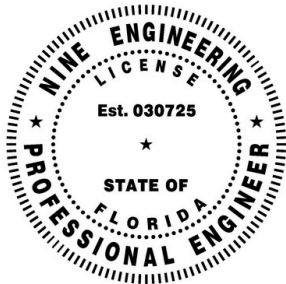
- PAGE 1 OF 4 ----- COVER
PAGE 2 OF 4 ----- DESIGN
PAGE 3 OF 4 ----- FIELD PICTURES
PAGE 4 OF 4 ----- MUNICIPALITY NOTES



SUNSHINE # 1-800-432-4770

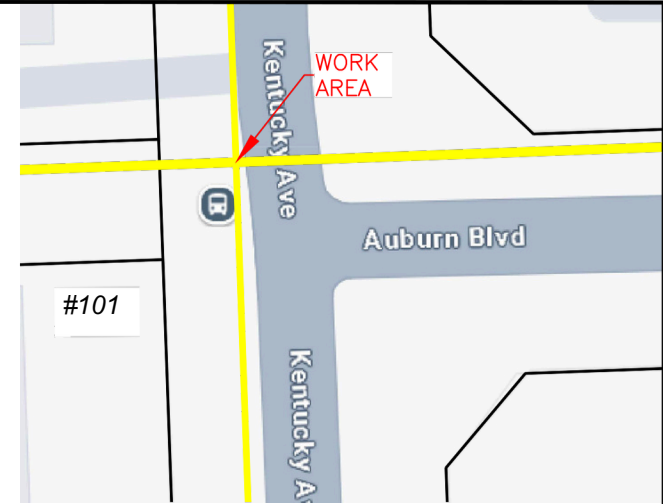
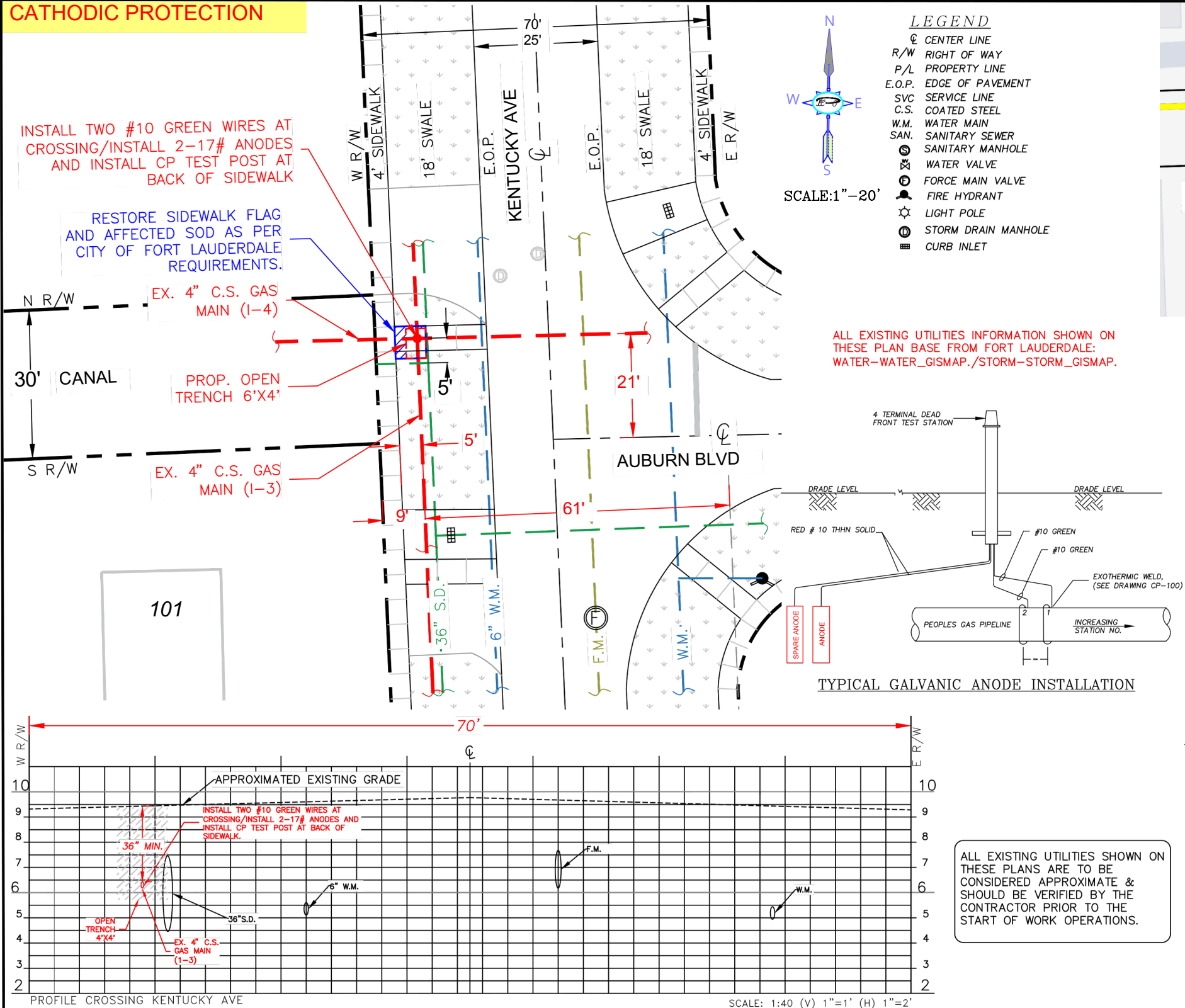
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE
CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE
CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278
UTILITY WATER / SEWER 24 HOUR 954 - 828 - 8000



8751 W BROWARD BLVD #505
PLANTATION, FL 33324
954-909-0224 INFO@9ENG.COM

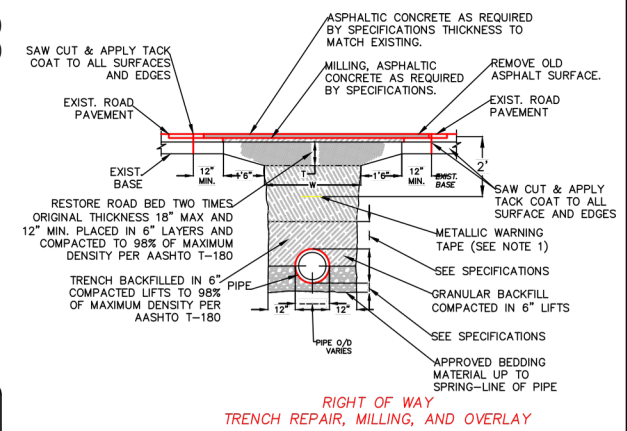
CATHODIC PROTECTION



LOCATION MAP (N.T.S.)

GENERAL NOTES

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE BASE, MIN. 8" AND MAX. 18"
2. BASE MATERIAL SHALL BE PLACED IN 6" MAX. (LOOSE MEASUREMENT) LAYER AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAX. DENSITY PER AASH TO T-180
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE MATERIAL (1.5" MIN. THICKNESS)
5. BASE MATERIAL SHALL HAVE A MIN. LBR. OF 100 AND A MIN. CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS)
6. CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES



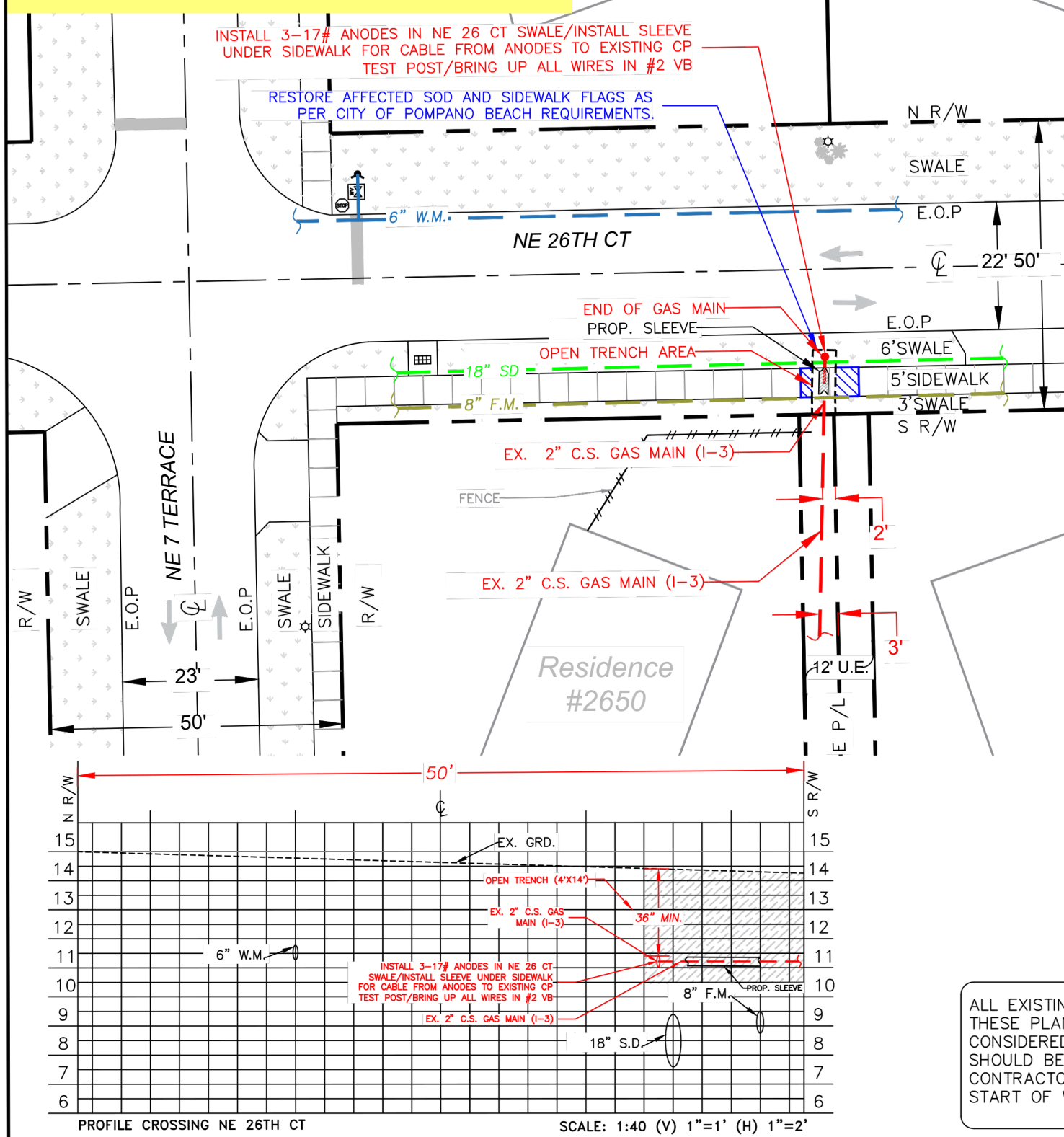
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TYPICAL TRENCH AND PAVEMENT RESTORATION FOR TRANSVERSE CROSSING

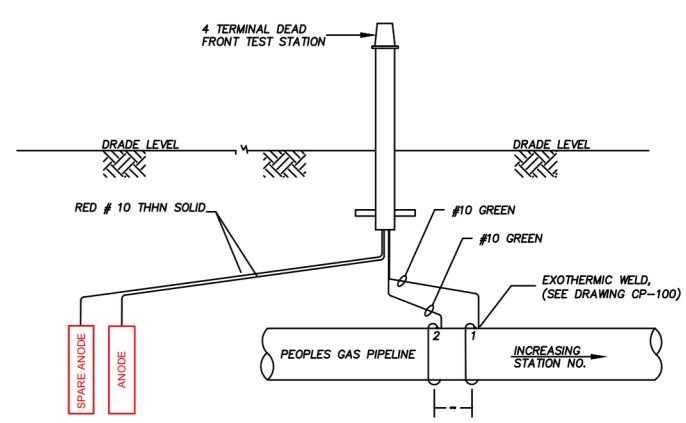
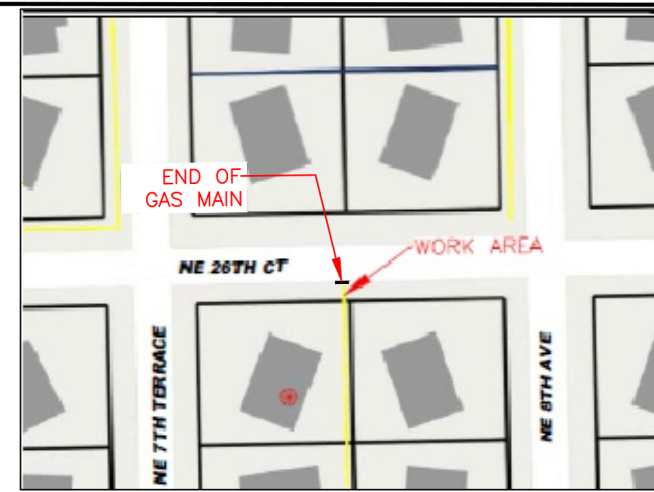
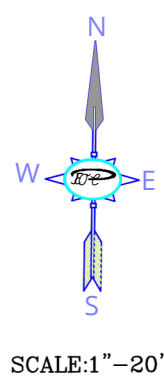
100

				IT'S THE LAW 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.	
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325		PROJECT TYPE: CATHODIC PROTECTION		REVIEWED BY: J. MONDRAGON	
NO. OF SHEETS: 4		DATE: 05-21-2025		DATE: 05-21-2025	
SHEET NO.: 2		8751 W BROWARD BLVD #505 www.fing.com - 954-589-0224		D00006970	

CATHODIC PROTECTION INSTALLATION



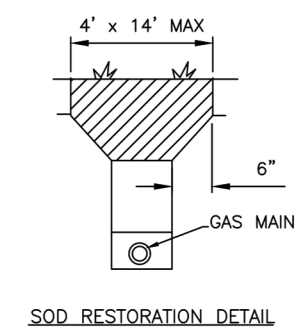
- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
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 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - Fire Hydrant
 - Light Pole
 - Curb Inlet
 - Water Valve
 - Stop Sign
 - F.M. FORCE MAIN



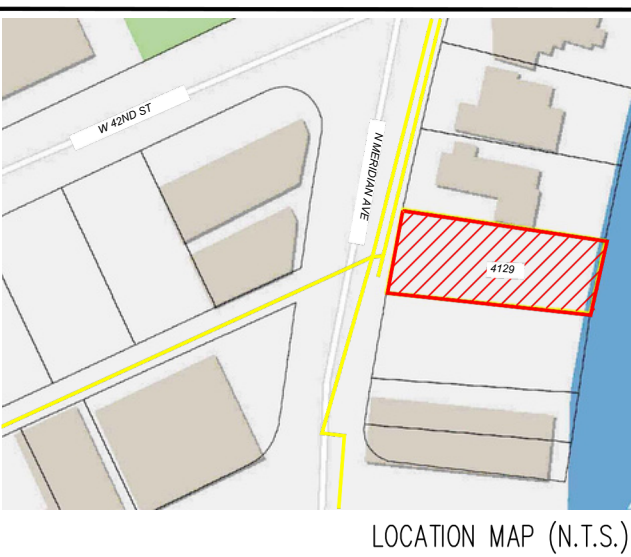
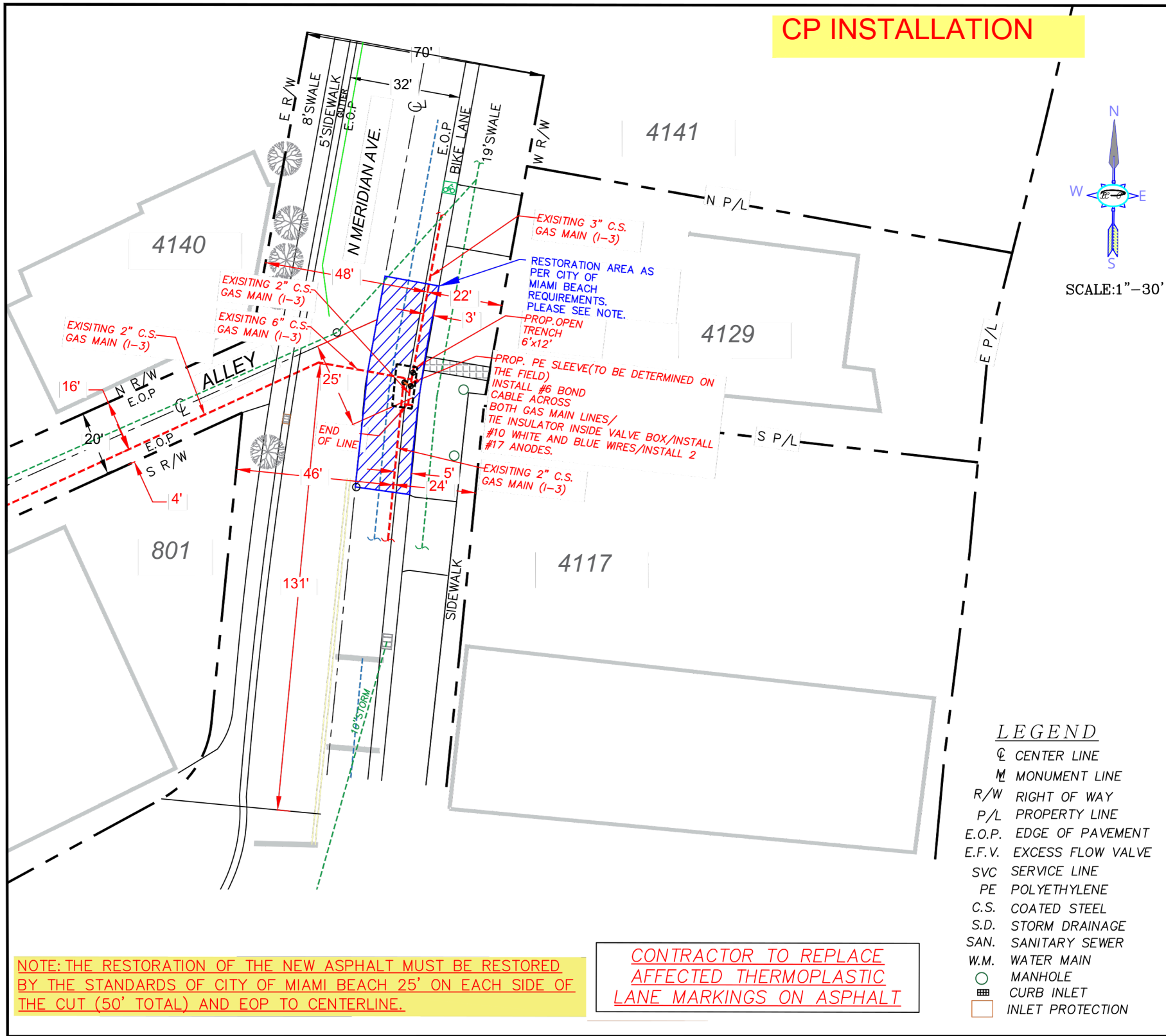
ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM-POMPANO BEACH WATER/BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS/STORM UTILITY ATLAS

- GENERAL NOTES**
1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE BASE, MIN. 8" AND MAX. 18"
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 3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED
 4. SURFACE MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE MATERIAL (1.5" MIN. THICKNESS)
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 6. CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES

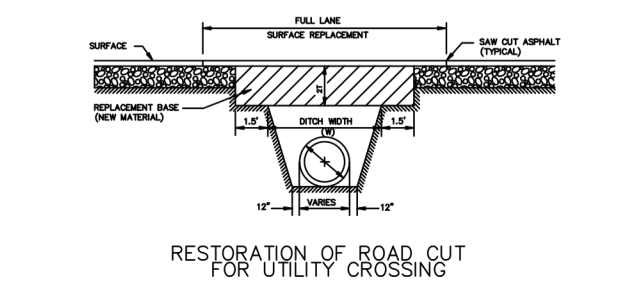
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.



REVIEWED BY: David Dwyer DATE: 05-29-2025		PROJECT TYPE: CATHODIC PROTECTION INSTALLATION PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO. DATE		NO. OF SHEETS: 3 SHEET NO.: 2	



ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM-© MIAMI BEACH PAGE 119 SEWER SYSTEM-GIS, PAGE. 10, STORM-GIS PAGE 0048, WATER-GIS HS2010



- GENERAL NOTES**
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 6. CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES

PROJECT ADDRESS:		8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
PROJECT TYPE:		SERVICE RELOCATION	
		D0006970	
REVIEWED BY:		DATE:	
David Degary		04-04-2025	
NINE		8751 W BROWARD BLVD #505 PLANTATION FL 33324	
CALL 48 HOURS BEFORE YOU DO IN FLORIDA		IT'S THE LAW	
		1-800-432-4770	
SUNSHINE STATE ONE CALL FLORIDA, INC.			
NO. DATE		NO. OF SHEETS: 3	
REVISION		SHEET No.: 2	



Natural Gas Designs

Cut & Cap

Orlando Dager
Orlando.Dager@9eng.com
Info@9eng.com
+1 (832) 525-6758

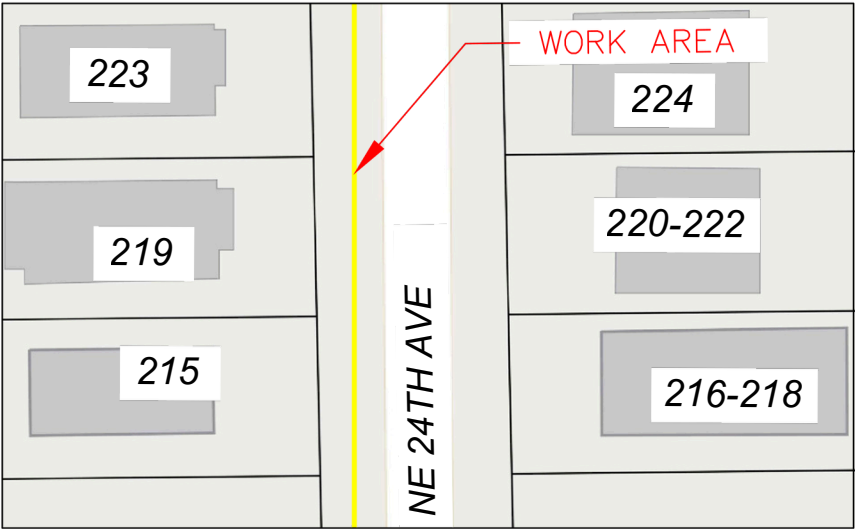
Sample: Cut & Cap Design



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

LEGEND

- CL CENTER LINE
- ML MONUMENT LINE
- R/W RIGHT OF WAY
- P/L PROPERTY LINE
- E.O.P. EDGE OF PAVEMENT
- T.T. TAPPING TEE
- E.F.V. EXCESS FLOW VALVE
- SVC SERVICE LINE
- PE POLYETHYLENE
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- BORE PIT
- FIRE HYDRANT



LOCATION MAP N.T.S

PREMISE: XXXXXXXX

PROJECT DESCRIPTION:

CUT & CAP EX. GAS SERVICE AT THE MAIN.

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- PAGE 3 OF 3 ----- FIELD PICTURES

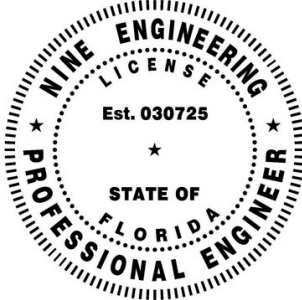


Know what's below.
Call before you dig.

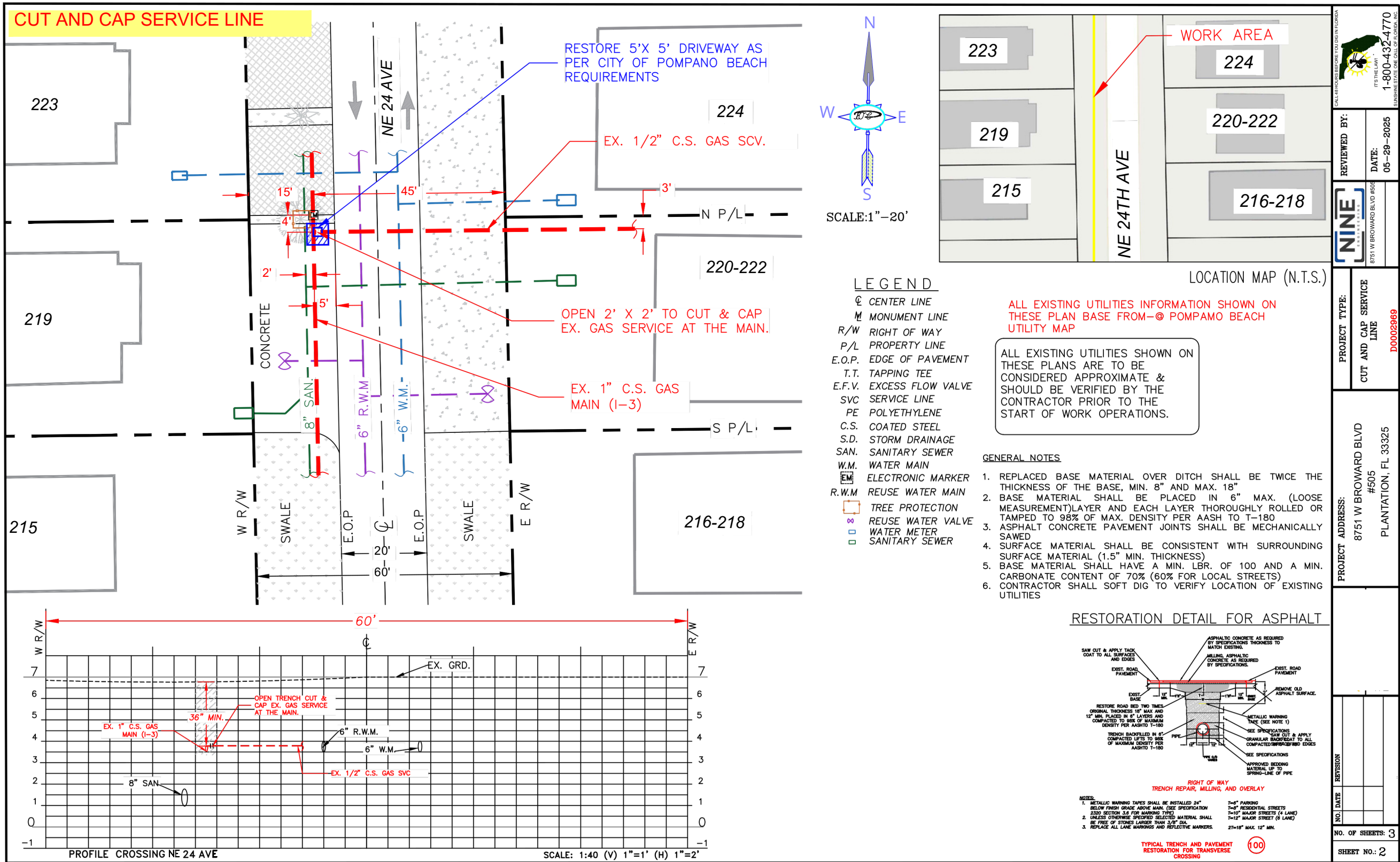
SUNSHINE # 1-800-432-4770

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE
CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE
CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278

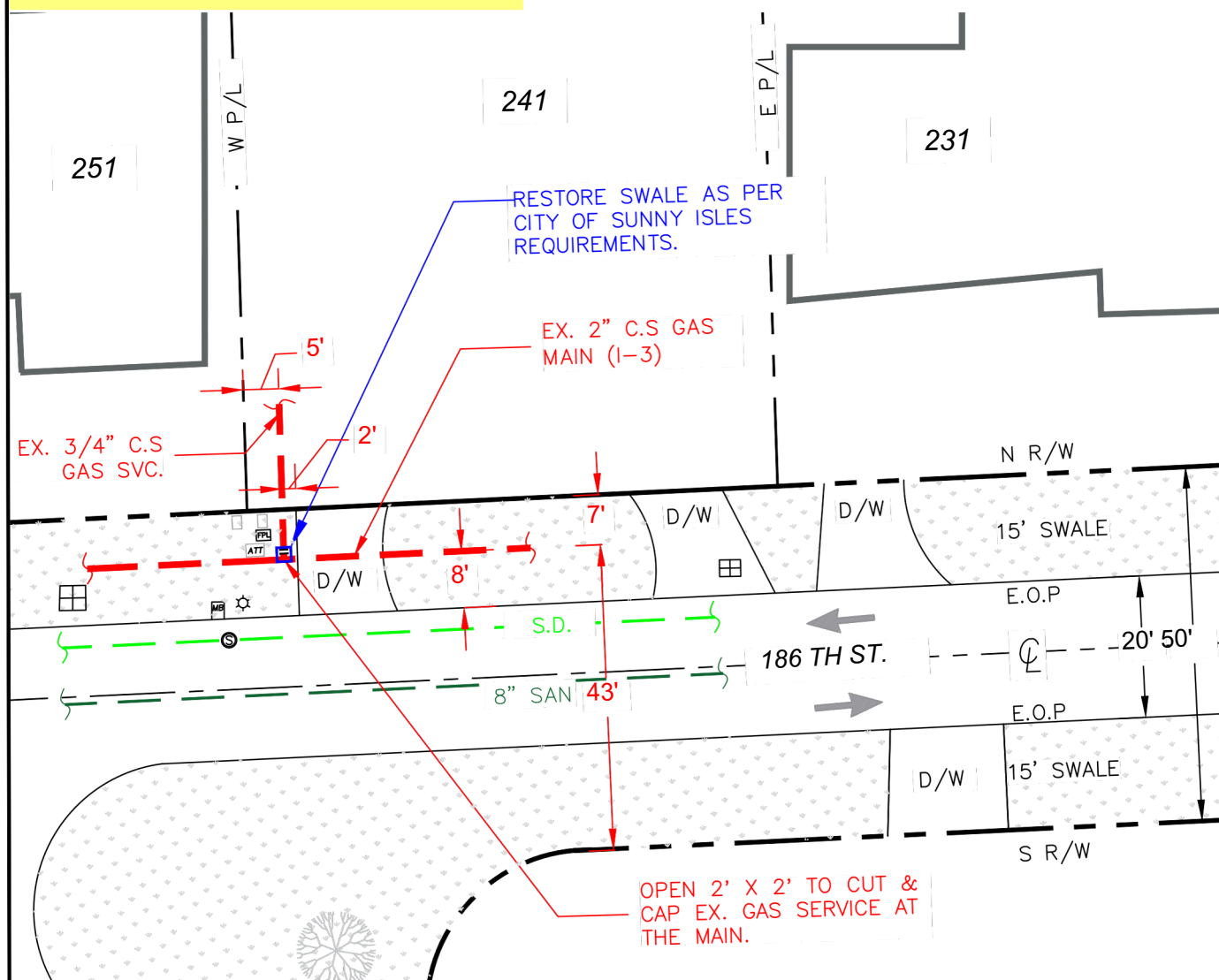


8751 W BROWARD BLVD #505
PLANTATION, FL 33324
954-909-0224 INFO@9ENG.COM



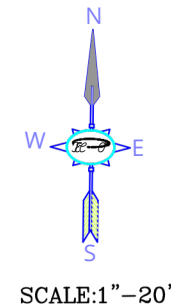
Sample: Cut & Cap Design

CUT & CAP SERVICE LINE



ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM-@ SUNNY ISLES WATER & SEWER ATLAS

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

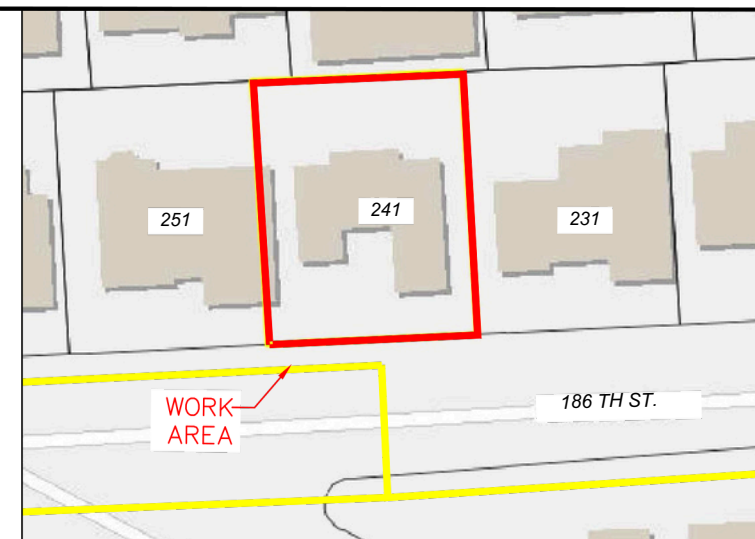


LEGEND

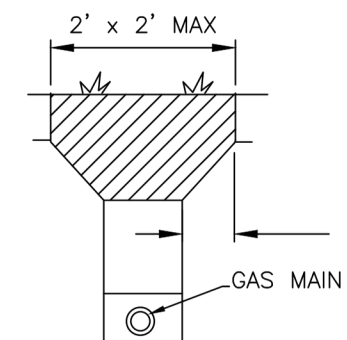
- CL CENTER LINE
- ML MONUMENT LINE
- R/W RIGHT OF WAY
- P/L PROPERTY LINE
- E.O.P. EDGE OF PAVEMENT
- T.T. TAPPING TEE
- E.F.V. EXCESS FLOW VALVE
- SVC SERVICE LINE
- PE POLYETHYLENE
- C.S. COATED STEEL
- S.D. STORM DRAINAGE
- SAN. SANITARY SEWER
- W.M. WATER MAIN
- FPL FPL GENERATOR
- ☆ LIGHT POLE
- D/W DRIVEWAY
- MB MAILBOX
- CI CURB INLET
- SM SANITARY MANHOLE
- WATER METER

GENERAL NOTES

- REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE BASE, MIN. 8" AND MAX. 18"
- BASE MATERIAL SHALL BE PLACED IN 6" MAX. (LOOSE MEASUREMENT)LAYER AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAX. DENSITY PER AASH TO T-180
- ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED
- SURFACE MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE MATERIAL (1.5" MIN. THICKNESS)
- BASE MATERIAL SHALL HAVE A MIN. LBR. OF 100 AND A MIN. CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS)
- CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES

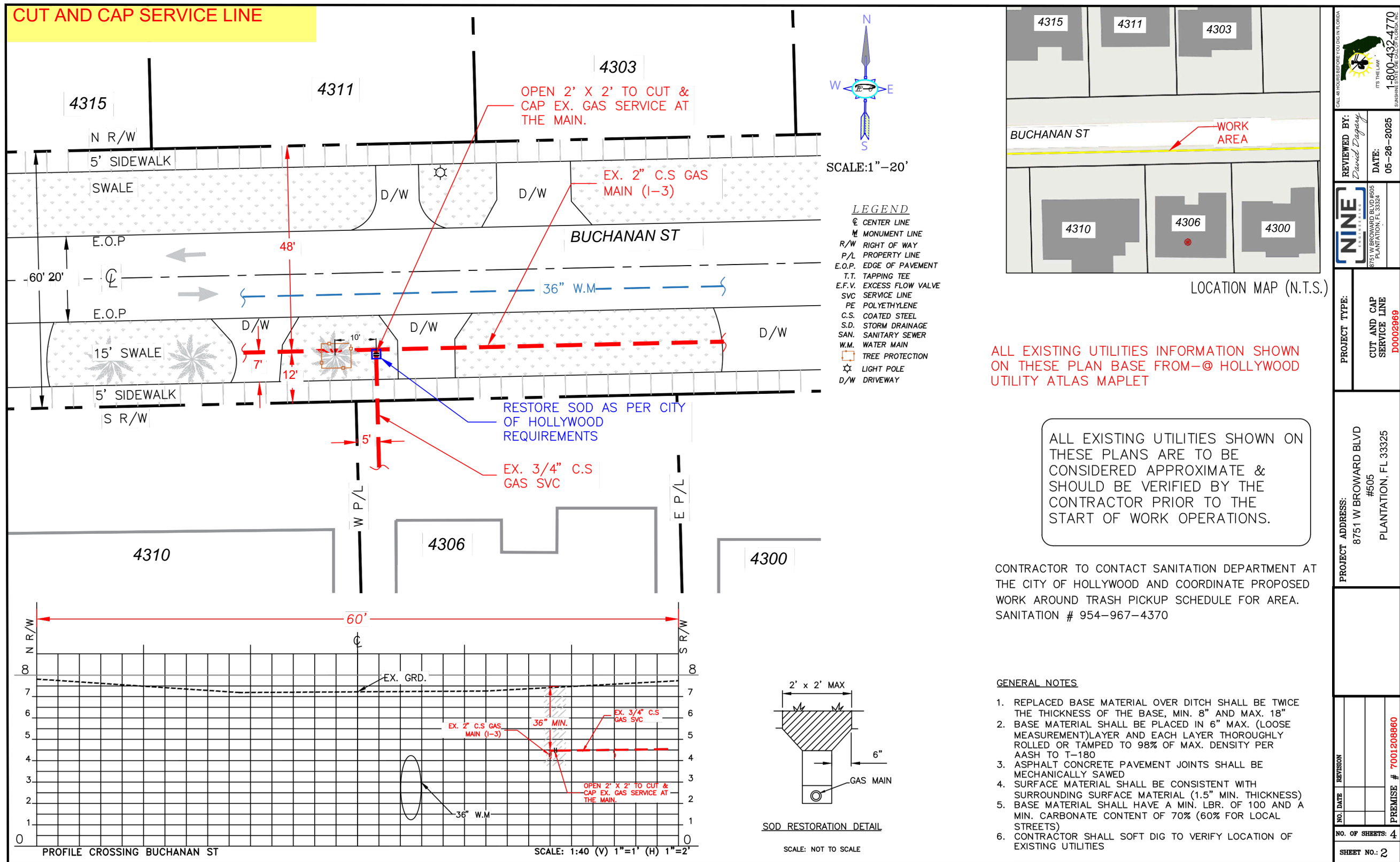


LOCATION MAP (N.T.S.)



SOD RESTORATION DETAIL

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA IT'S THE LAW! 1-800-432-4770 SUNNY ISLES WATER & SEWER, INC.	
REVIEWED BY: <i>David Degay</i>	DATE: 05-30-2025
NINE 8751 W BROWARD BLVD #505 PLANTATION, FL 33324	
PROJECT TYPE: CUT & CAP SERVICE LINE	PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325
NO. DATE REVISION 1 05/30/25 1.0	
NO. OF SHEETS: 3 SHEET NO.: 2	
PREMISE # 7000897297	



Sample: Cut & Cap Design

Info@9eng.com



Natural Gas Designs

New Gas Service

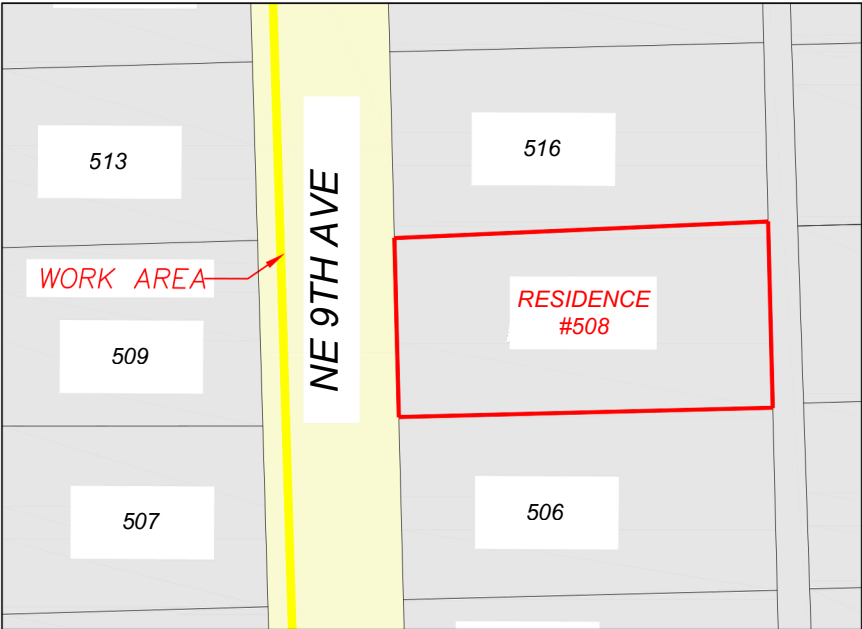
Orlando Dager
Orlando.Dager@9eng.com
Info@9eng.com
+1 (832) 525-6758

Sample: New Gas Service



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - MANHOLE
 - FIRE HYDRANT
 - EM ELECTRONIC MARKER
 - INLET PROTECTION
 - LIGHT POLE
 - SANITARY MANHOLE
 - STORM DRAIN MANHOLE
 - CURB INLET
 - WATER VALVE
 - GAS VALVE
 - SEWER VALVE
 - BORE PIT
 - FIRE HYDRANT



LOCATION MAP (N.T.S)

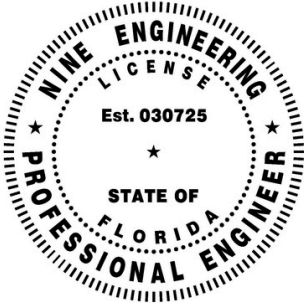
PREMISE: XXXXXXXX
PROJECT DESCRIPTION: NEW GAS SERVICE LINE
TOTAL PIPE IN PROJECT: APPROX.98'

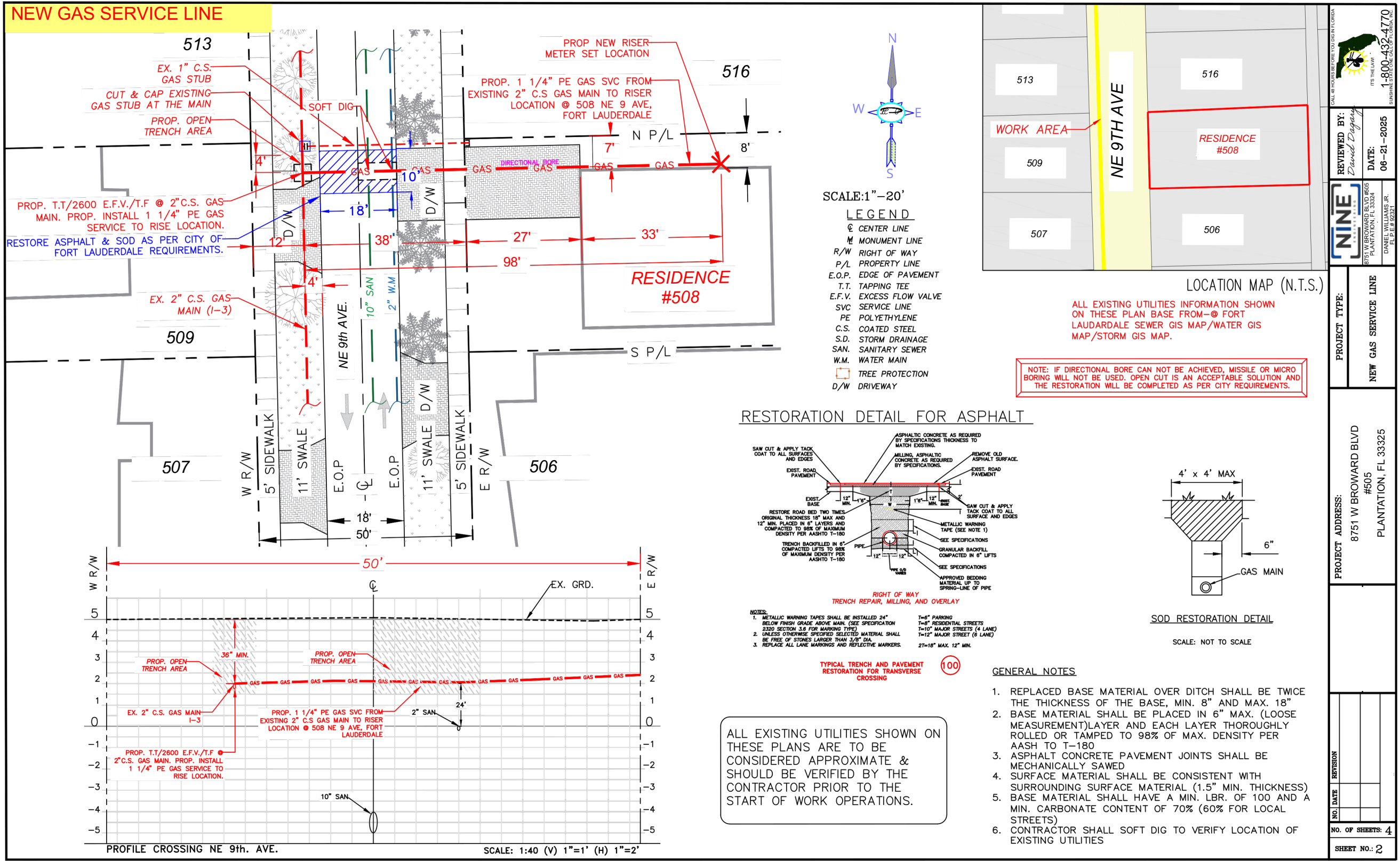
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ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278
UTILITY WATER / SEWER 24 HOUR 954 - 828 - 8000





Sample: New Gas Service (FDOT)

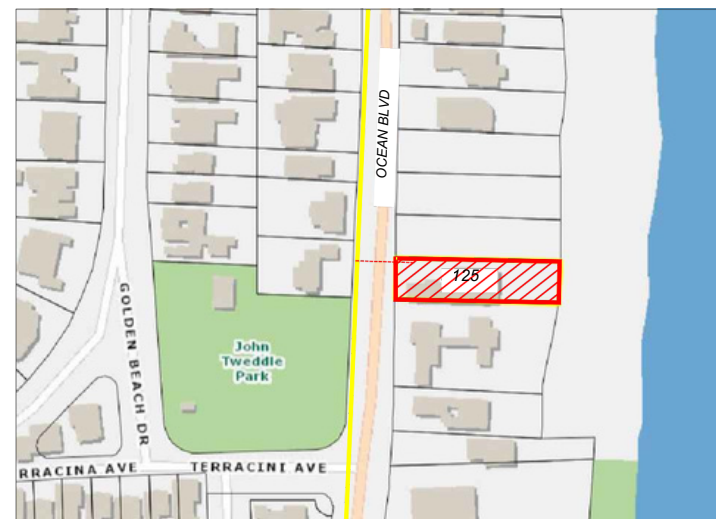


8751 W BROWARD BLVD #505
PLANTATION, FL 33325

LEGEND

- Ⓢ CENTER LINE
- Ⓜ MONUMENT LINE
- R/W RIGHT OF WAY
- P/L PROPERTY LINE
- E.O.P. EDGE OF PAVEMENT
- T.T. TAPPING TEE
- E.F.V. EXCESS FLOW VALVE
- SVC SERVICE LINE
- PE POLYETHYLENE
- C.S. COATED STEEL
- S.D. STORM DRAINAGE
- SAN. SANITARY SEWER
- W.M. WATER MAIN
- Ⓜ CURB INLET
- TREE PROTECTION BARRIER
- Ⓢ STORM DRAIN MANHOL

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.



LOCATION MAP

PREMISE: XXXXXXXX

PROJECT DESCRIPTION:

NEW GAS SERVICE LINE INSTALLATION

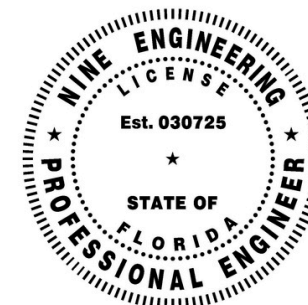
TOTAL PIPE IN PROJECT: APPROX. 103'

INDEX

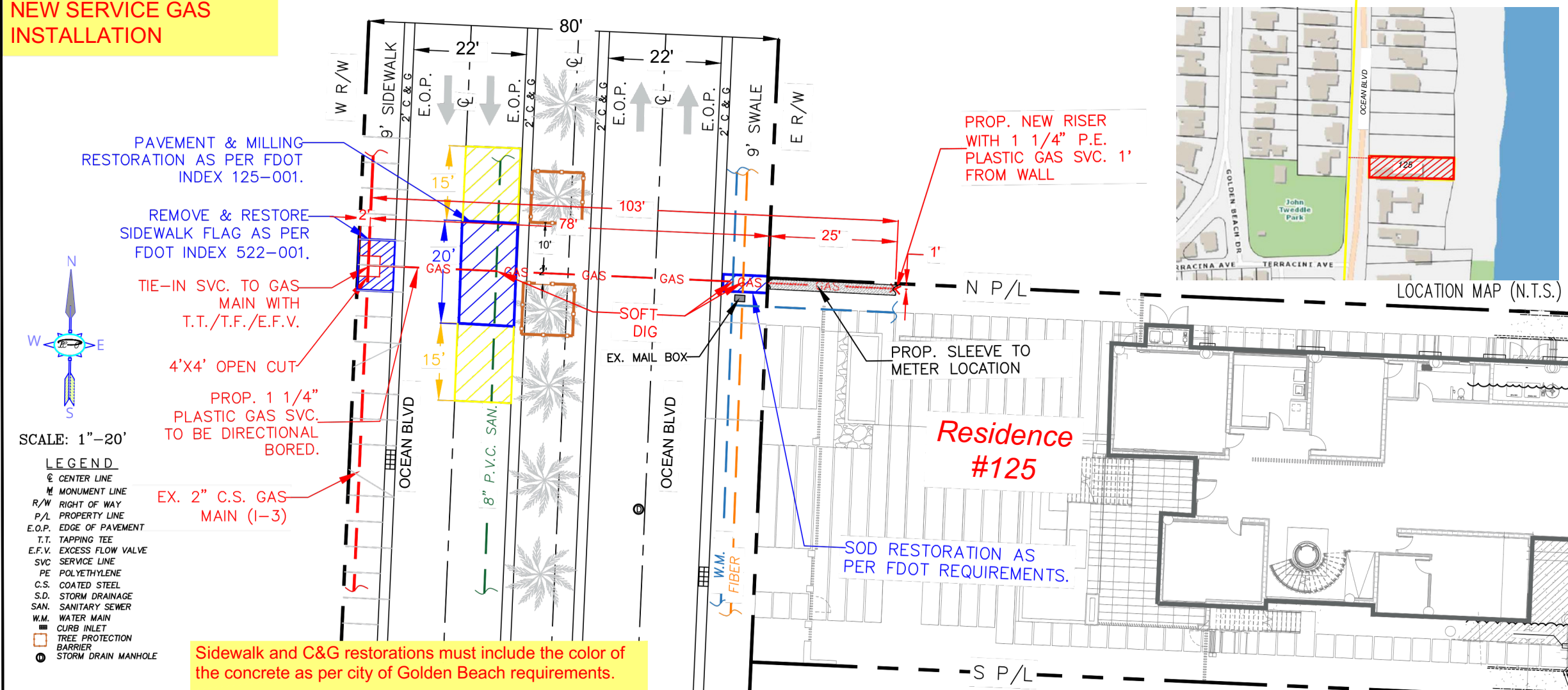
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ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278



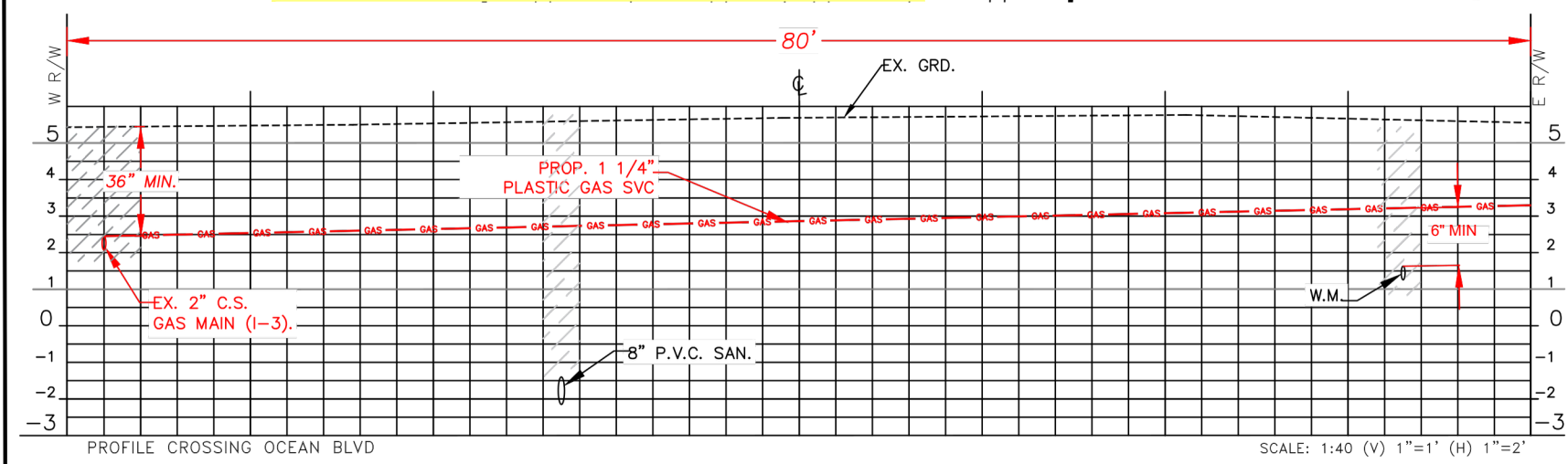
NEW SERVICE GAS INSTALLATION



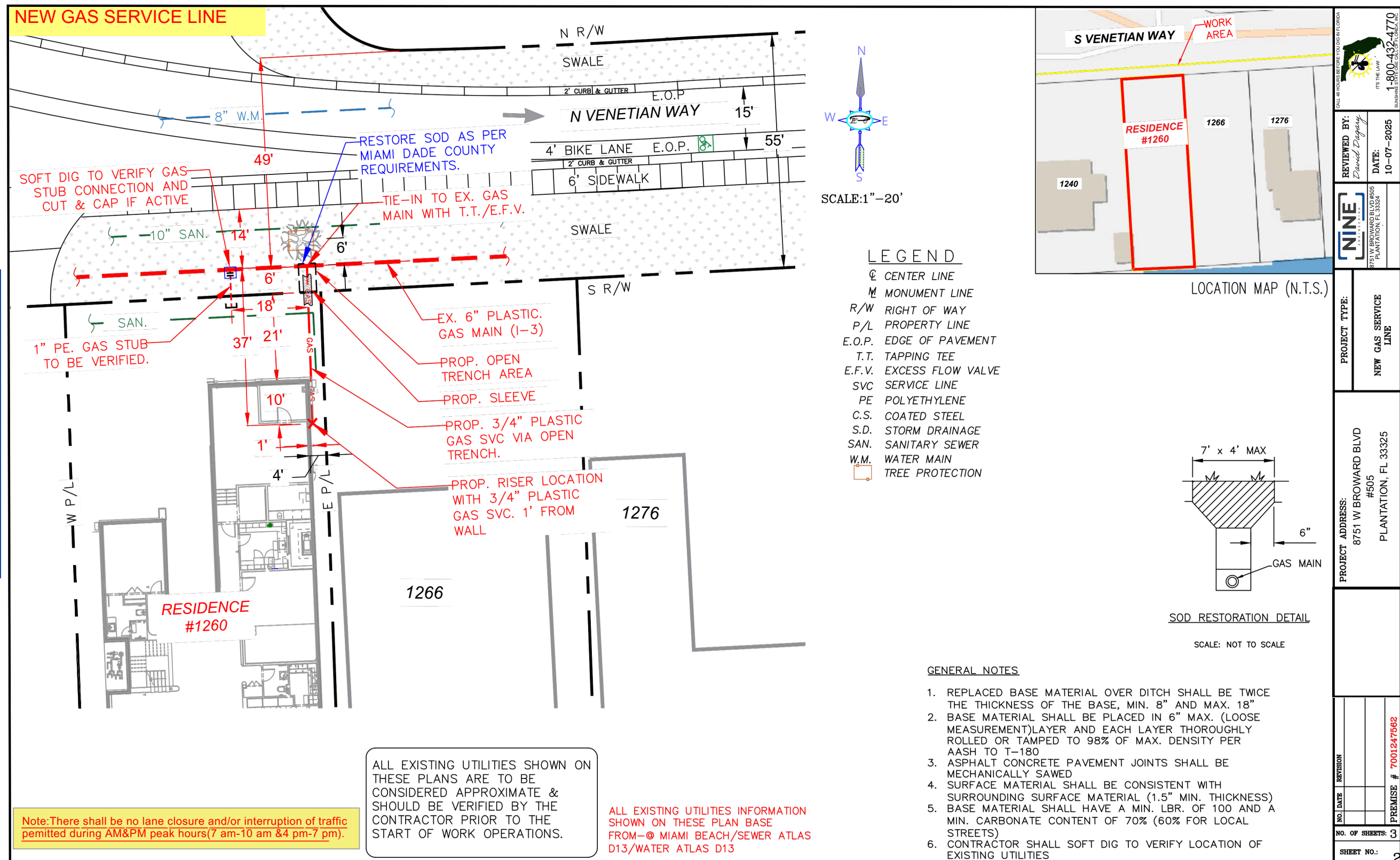
SCALE: 1"=20'

- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - CI CURB INLET
 - TP TREE PROTECTION
 - BR BARRIER
 - SM STORM DRAIN MANHOLE

Sidewalk and C&G restorations must include the color of the concrete as per city of Golden Beach requirements.



REVIEWED BY: <i>David Dugan</i> DATE: 04-04-2025	
PROJECT TYPE: NEW SERVICE GAS INSTALLATION	
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO. OF SHEETS: 4	
SHEET NO.: 2	



Natural Gas Designs

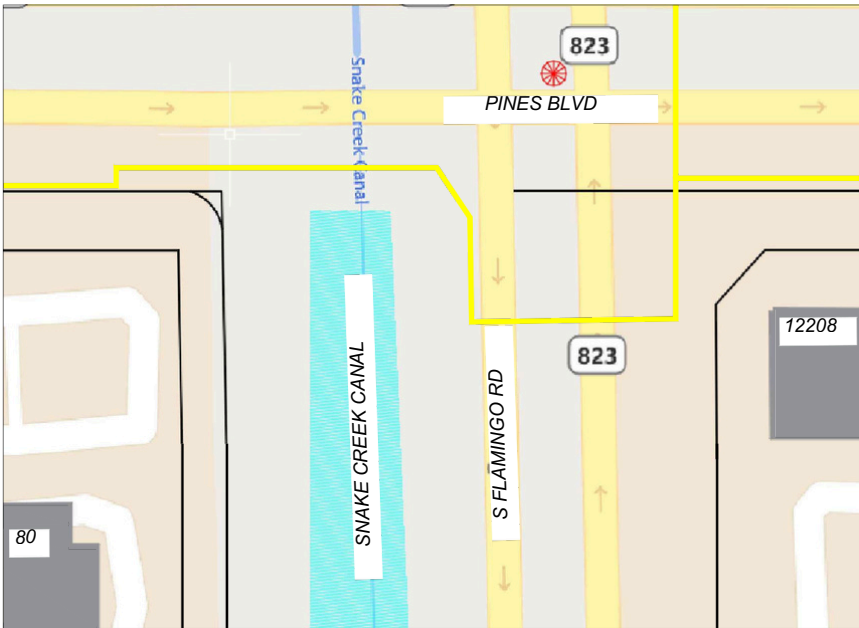
Undetectable Gas Main Spot Dig

Sample: Undetectable Gas Main Spot Dig



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - MANHOLE
 - FIRE HYDRANT
 - EM ELECTRONIC MARKER
 - INLET PROTECTION
 - LIGHT POLE
 - SANITARY MANHOLE
 - STORM DRAIN MANHOLE
 - CURB INLET
 - WATER VALVE
 - GAS VALVE
 - SEWER VALVE
 - BORE PIT
 - FIRE HYDRANT



LOCATION MAP

PREMISE: XXXXXXXX
PROJECT DESCRIPTION: SPOT DIG AND INSTALL LOCATING DEVICES ON OR ABOVE THE MAIN

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PAGE 6 OF 6	-----	FDOT NOTES

811
Know what's below.
Call before you dig.
SUNSHINE # 1-800-432-4770

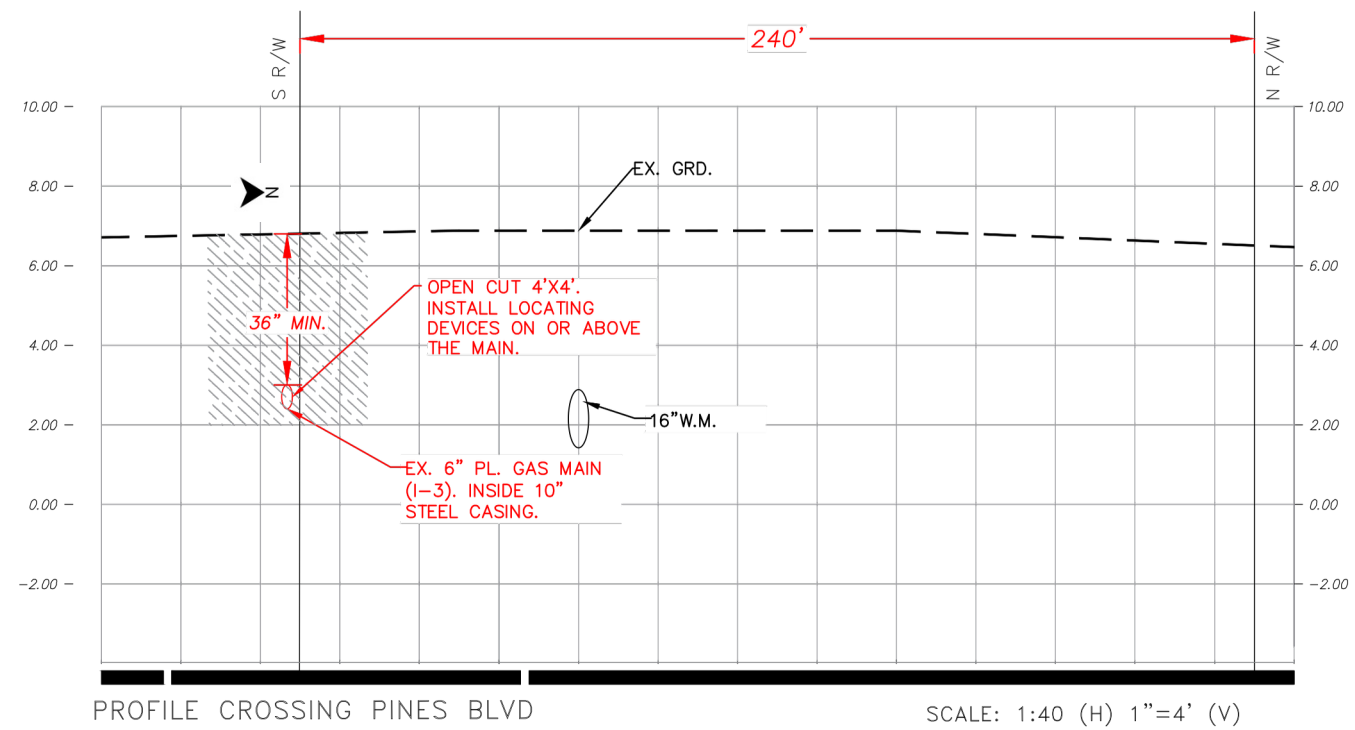
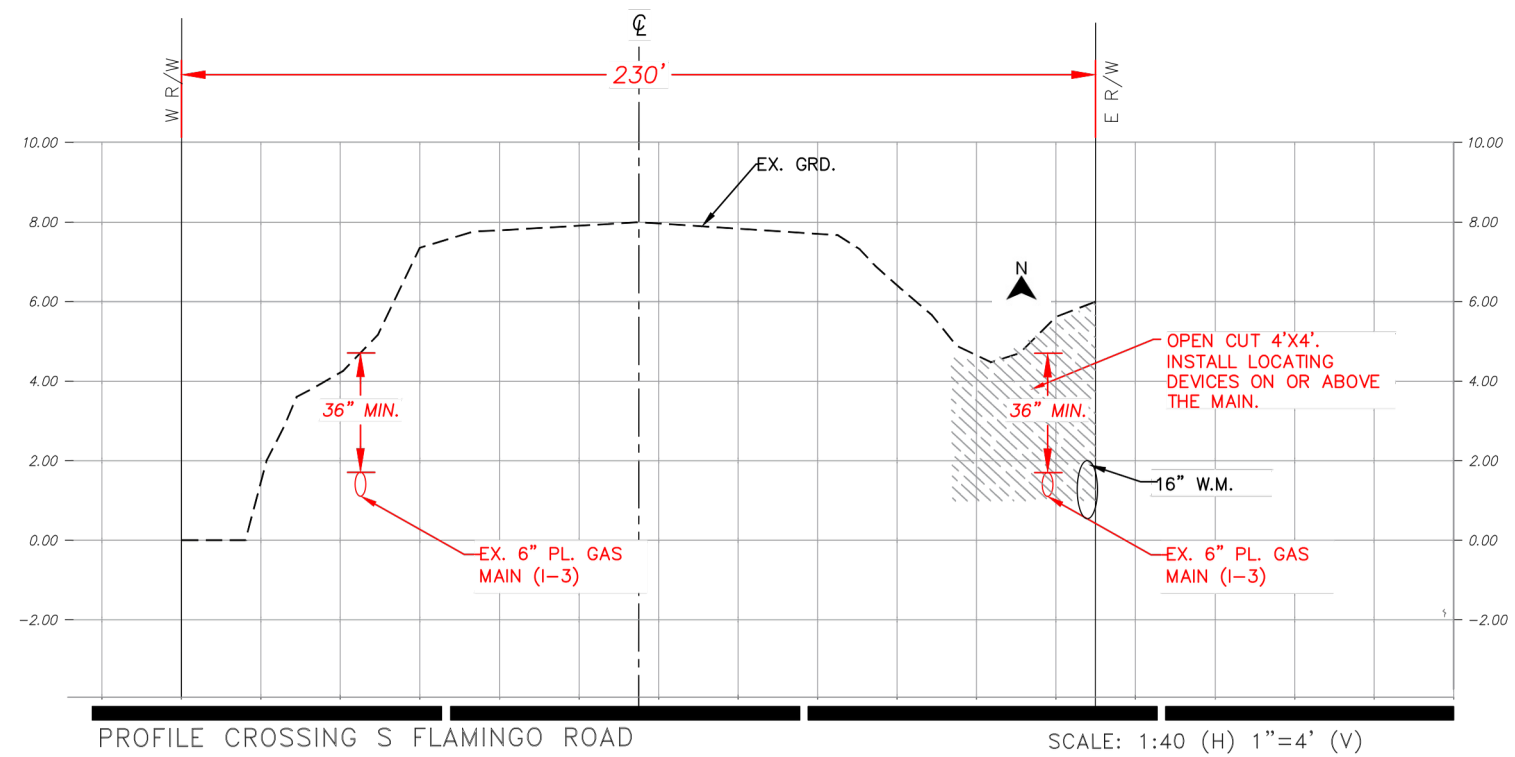
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ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278
UTILITY WATER / SEWER 24 HOUR 954 - 828 - 8000

8751 W BROWARD BLVD #505
PLANTATION, FL 33324
954-909-0224 INFO@9ENG.COM



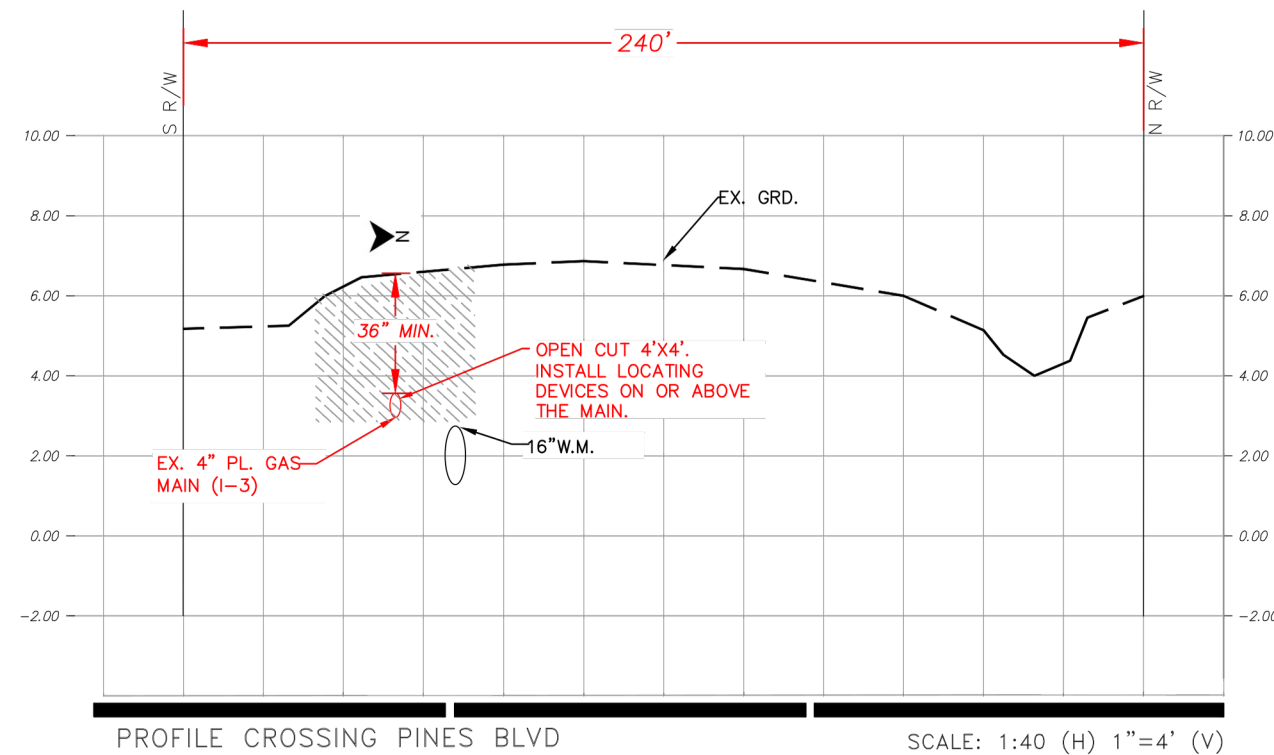
36



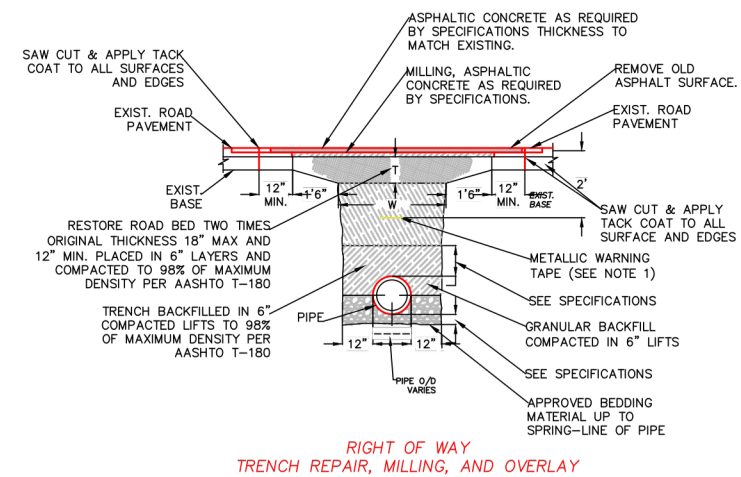
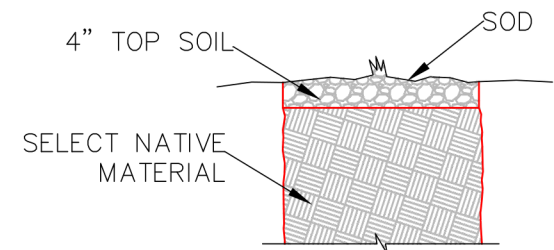
CALL 48 HOURS BEFORE YOU DIG IN FLORIDA IT'S THE LAW 1-800-432-4770 FLORIDA'S SHINE IN THE SUN	
REVIEWED BY: J. MONDRAGON	DATE: 06-03-2025
NINE 8751 W BROWARD BLVD #505 WWW.NINE.COM 954-994-0224	
PROJECT TYPE:	PROFILES
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO.	REVISION
DATE	
NO. OF SHEETS: 6	
SHEET NO.: 3	

Sample: Undetectable Gas Main Spot Dig

Info@9eng.com



RESTORATION DETAIL FOR ASPHALT

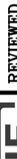


- NOTES:
1. METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE ABOVE MAIN. (SEE SPECIFICATION 2320 SECTION 3.6 FOR MARKING TYPE)
 2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
 3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.

- T=6" PARKING
T=8" RESIDENTIAL STREETS
T=10" MAJOR STREETS (4 LANE)
T=12" MAJOR STREETS (6 LANE)
2T=18" MAX. 12" MIN.

TYPICAL TRENCH AND PAVEMENT
RESTORATION FOR TRANSVERSE
CROSSING

100

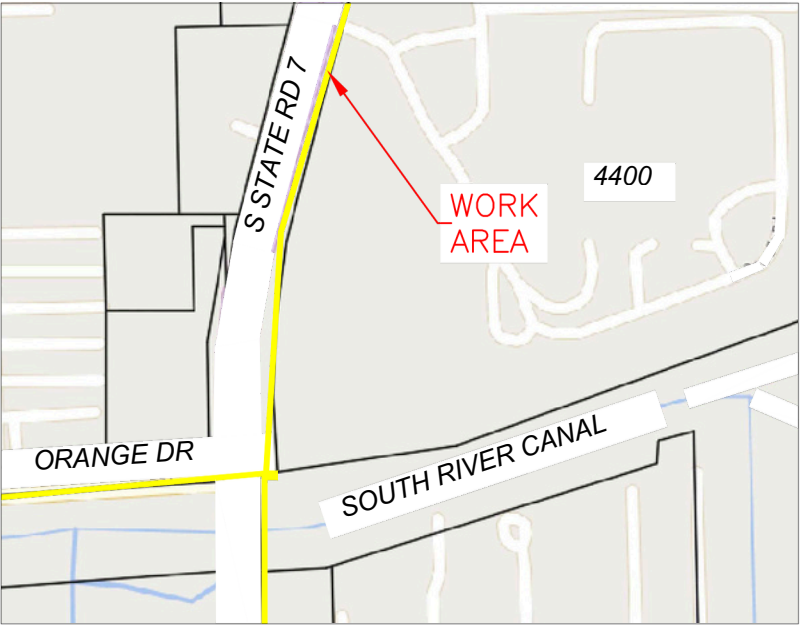
CALL 8 HOURS BEFORE YOU DIG IN FLORIDA IT'S THE LAW 1-800-432-4779 SEMINOLE STATE COLLEGE OF FLORIDA, INC.			REVIEWED BY: J. MONDRAGON		
PROJECT TYPE: PROFILE & RESTORATION DETAIL			DATE: 06-03-2025		
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325			 8751 W BROWARD BLVD #505 PLANTATION, FL 33324		
NO.	DATE	REVISION			
NO. OF SHEETS:			6		
SHEET NO.:			4		

Sample: Undetectable Gas Main Spot Dig



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

- LEGEND
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - MANHOLE
 - FIRE HYDRANT
 - EM ELECTRONIC MARKER
 - INLET PROTECTION
 - TREE PROTECTION
 - LIGHT POLE
 - SANITARY MANHOLE
 - STORM DRAIN MANHOLE
 - CURB INLET
 - WATER VALVE
 - GAS VALVE
 - SEWER VALVE
 - BORE PIT
 - FIRE HYDRANT



LOCATION MAP (N.T.S.)

PREMISE: XXXXXXXXX

PROJECT DESCRIPTION:
SPOT DIG AND INSTALL LOCATING DEVICES ON OR ABOVE THE MAIN, EXCAVATE APPROXIMATELY EVERY 50' UP TO 1500' NORTH OF ORANGE DR ON S STATE RD 7.

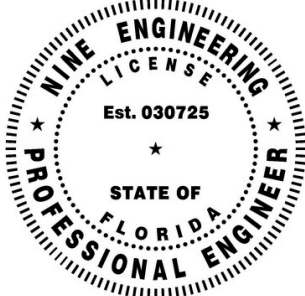
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PAGE 9 OF 12	FIELD PICTURES 2
PAGE 10 OF 12	FIELD PICTURES 3
PAGE 11 OF 12	FIELD PICTURES 4
PAGE 12 OF 12	FDOT NOTES


**Know what's below.
Call before you dig.**
SUNSHINE # 1-800-432-4770

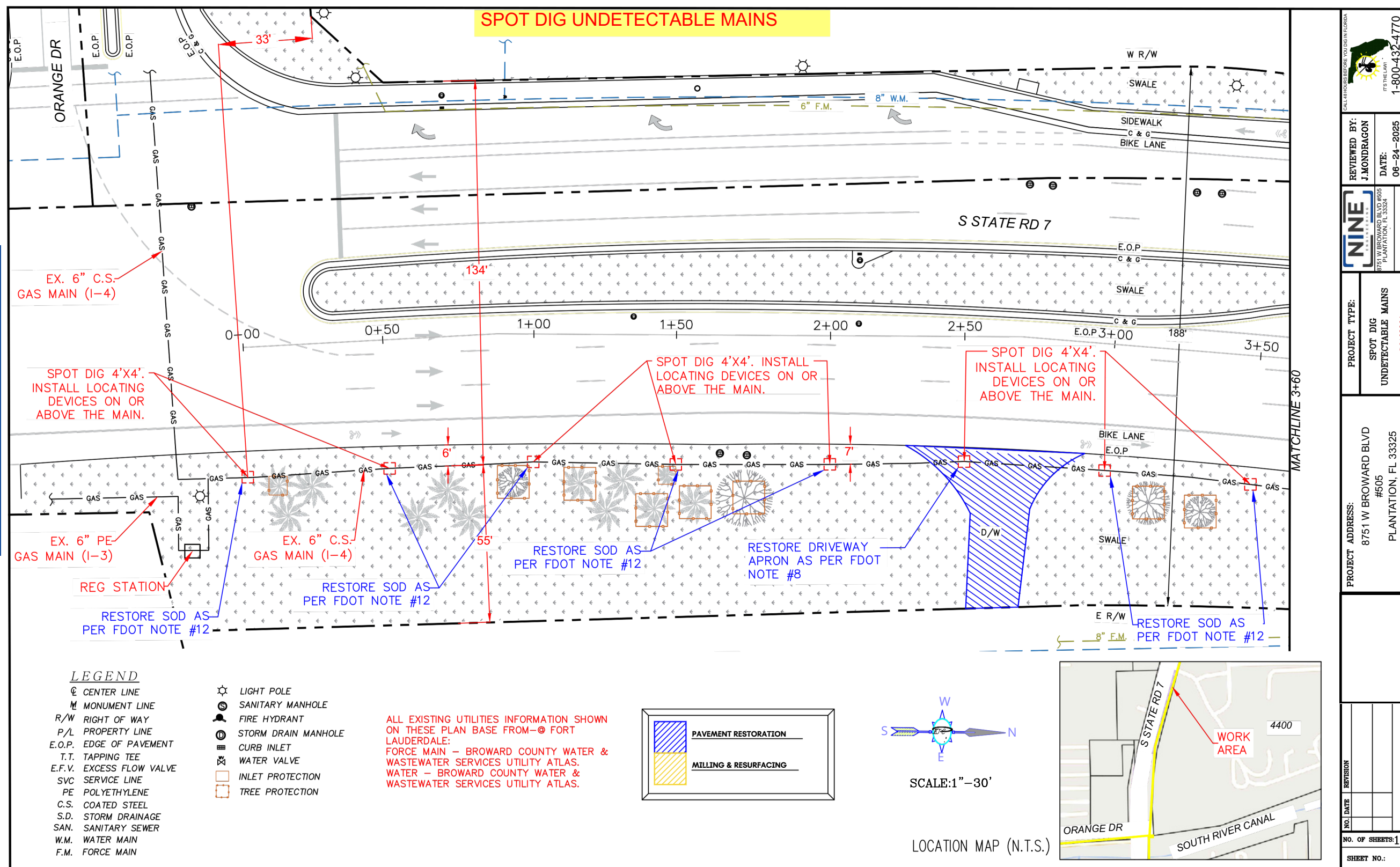
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ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278
UTILITY WATER / SEWER 24 HOUR 954 - 828 - 8000

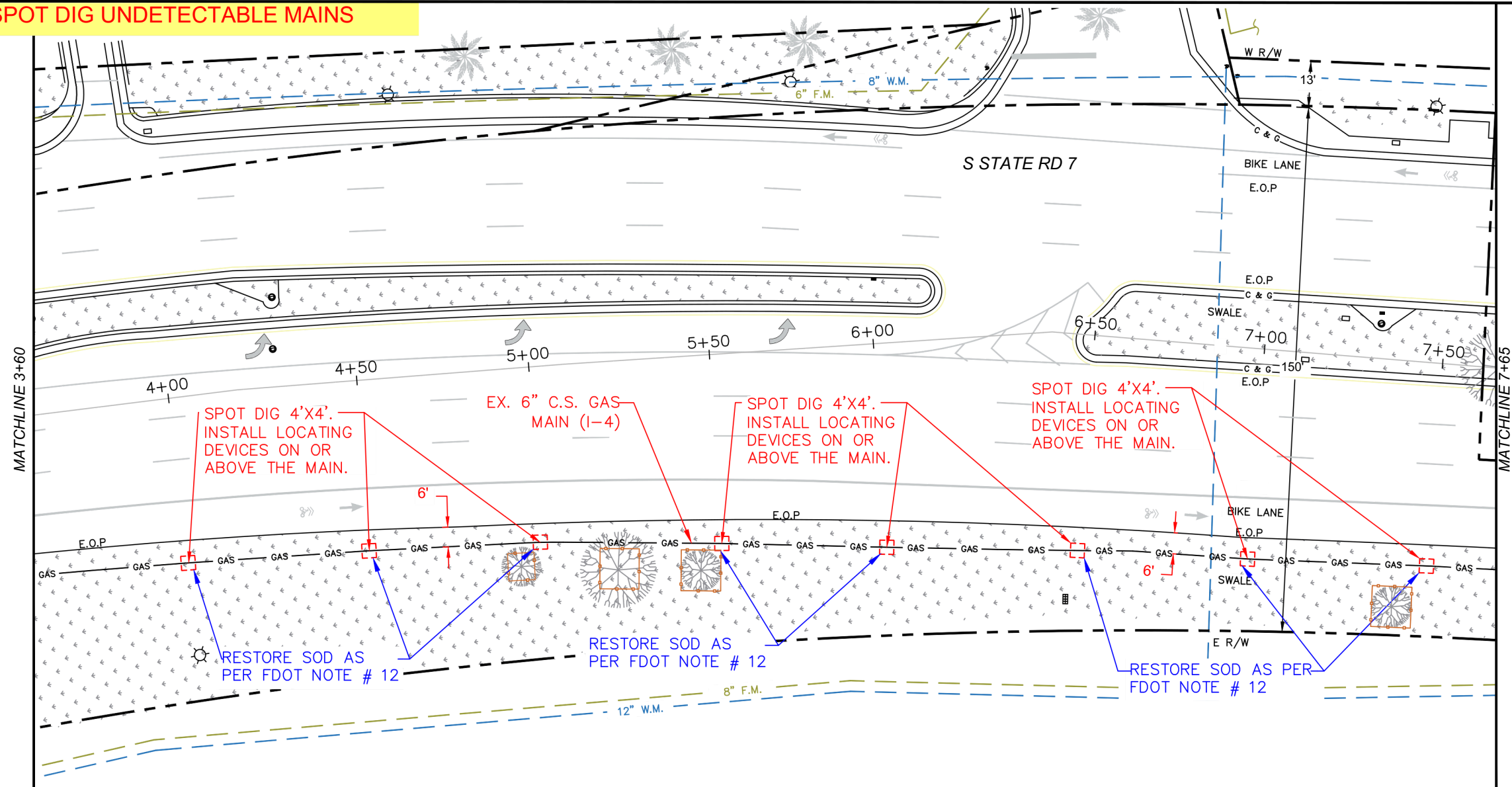




8751 W BROWARD BLVD #505
PLANTATION, FL 33324
954-909-0224 INFO@9ENG.COM



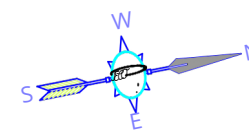
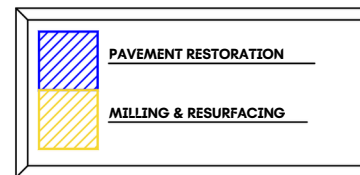
SPOT DIG UNDETECTABLE MAINS



LEGEND

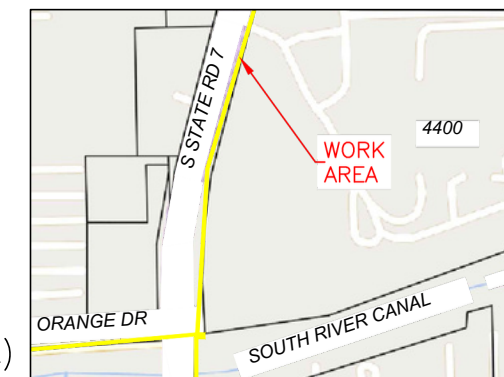
CL CENTER LINE	☼ LIGHT POLE
M MONUMENT LINE	⊙ SANITARY MANHOLE
R/W RIGHT OF WAY	⚡ FIRE HYDRANT
P/L PROPERTY LINE	⊕ STORM DRAIN MANHOLE
E.O.P. EDGE OF PAVEMENT	⊞ CURB INLET
T.T. TAPPING TEE	⚙ WATER VALVE
E.F.V. EXCESS FLOW VALVE	□ INLET PROTECTION
SVC SERVICE LINE	⊞ TREE PROTECTION
PE POLYETHYLENE	
C.S. COATED STEEL	
S.D. STORM DRAINAGE	
SAN. SANITARY SEWER	
W.M. WATER MAIN	
F.M. FORCE MAIN	

ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM—② FORT LAUDERDALE: FORCE MAIN — BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS. WATER — BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS.



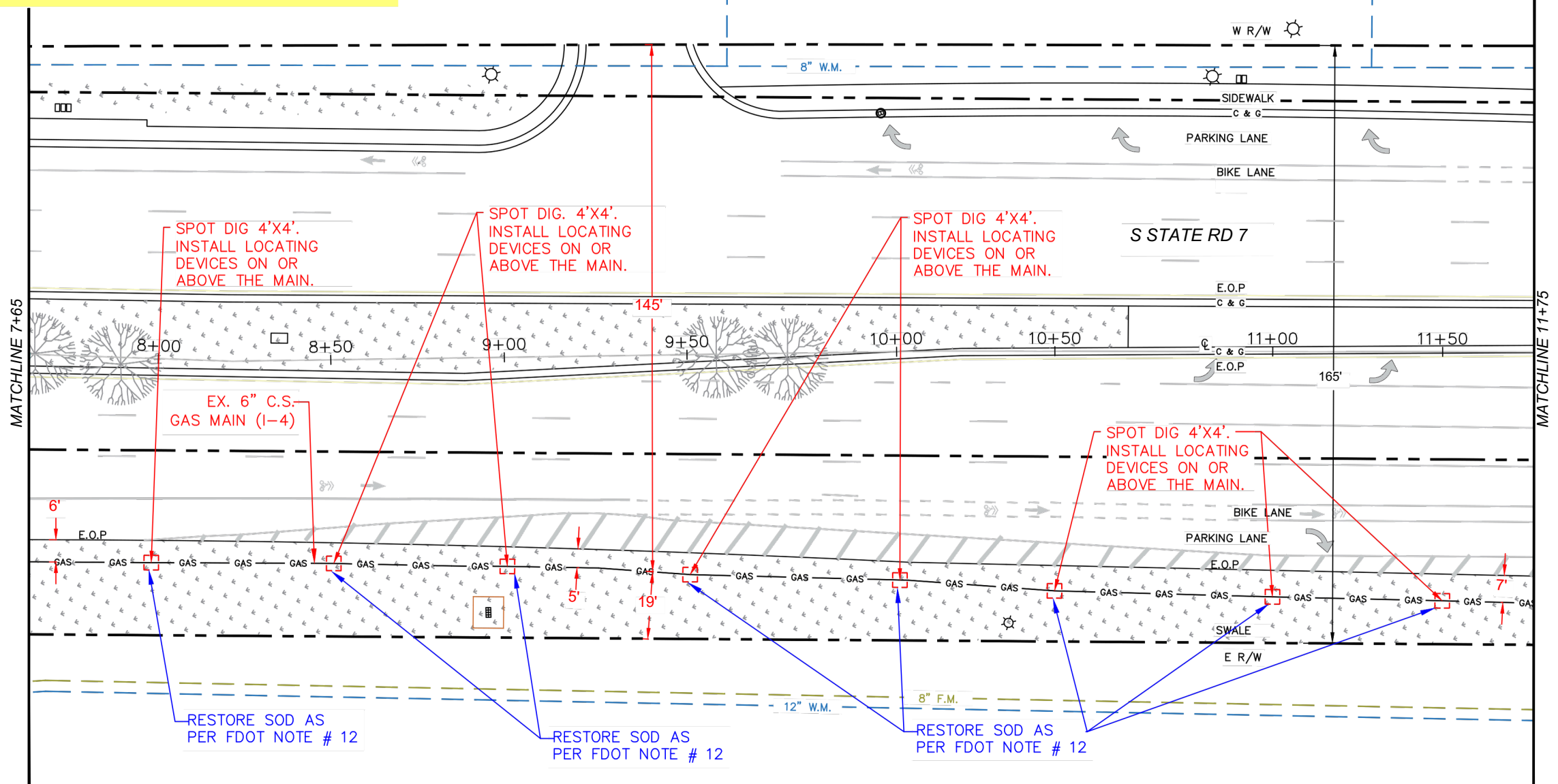
SCALE: 1"=30'

LOCATION MAP (N.T.S.)



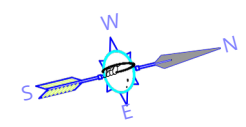
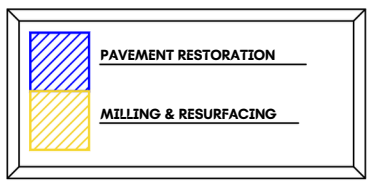
CALL 811 BEFORE YOU DIG IN FLORIDA IT'S THE LAW 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.	
REVIEWED BY: J. MONDRAGON	DATE: 06-24-2025
NINE 8751 W BROWARD BLVD #505 PLANTATION, FL 33324	
PROJECT TYPE: SPOT DIG UNDETECTABLE MAINS D00003864	
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
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SPOT DIG UNDETECTABLE MAINS



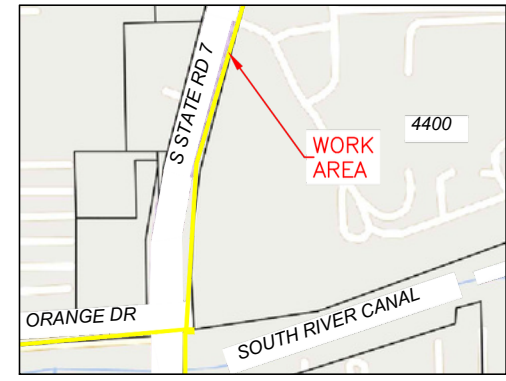
- LEGEND**
- ⊕ CENTER LINE
 - MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - F.M. FORCE MAIN
 - ☼ LIGHT POLE
 - ⊙ SANITARY MANHOLE
 - ⊙ FIRE HYDRANT
 - ⊙ STORM DRAIN MANHOLE
 - ⊙ CURB INLET
 - ⊙ WATER VALVE
 - ⊙ INLET PROTECTION
 - ⊙ TREE PROTECTION

ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM-⊙ FORT LAUDERDALE:
 FORCE MAIN - BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS.
 WATER - BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS.

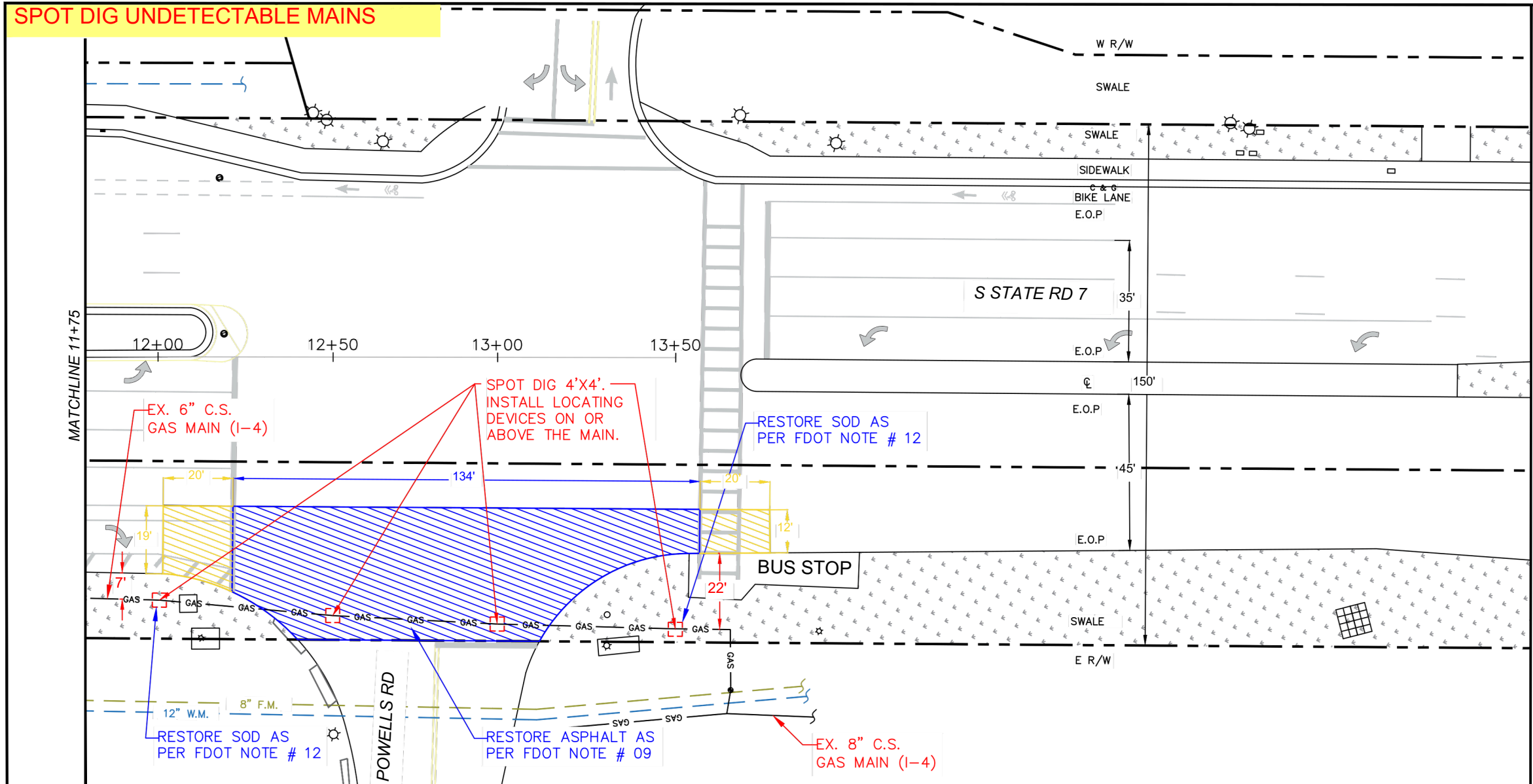


SCALE: 1"=30'

LOCATION MAP (N.T.S.)

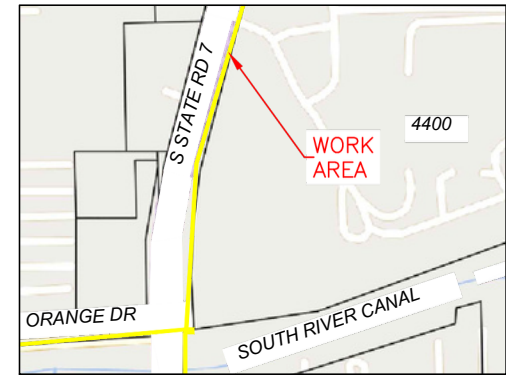
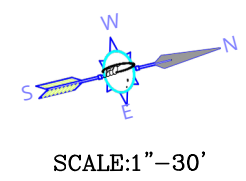
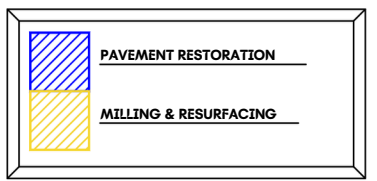


CALL 48 HOURS BEFORE YOU DIG IN FLORIDA  IT'S THE WAY 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.		REVIEWED BY: J. MONDRAGON		DATE: 08-24-2025	
NINE 8751 W BROWARD BLVD #505 PLANTATION, FL 33325		PROJECT TYPE: SPOT DIG UNDETECTABLE MAINS		PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO. OF SHEETS: 12		NO. DATE		NO. DATE	
SHEET NO.:		NO. DATE		NO. DATE	



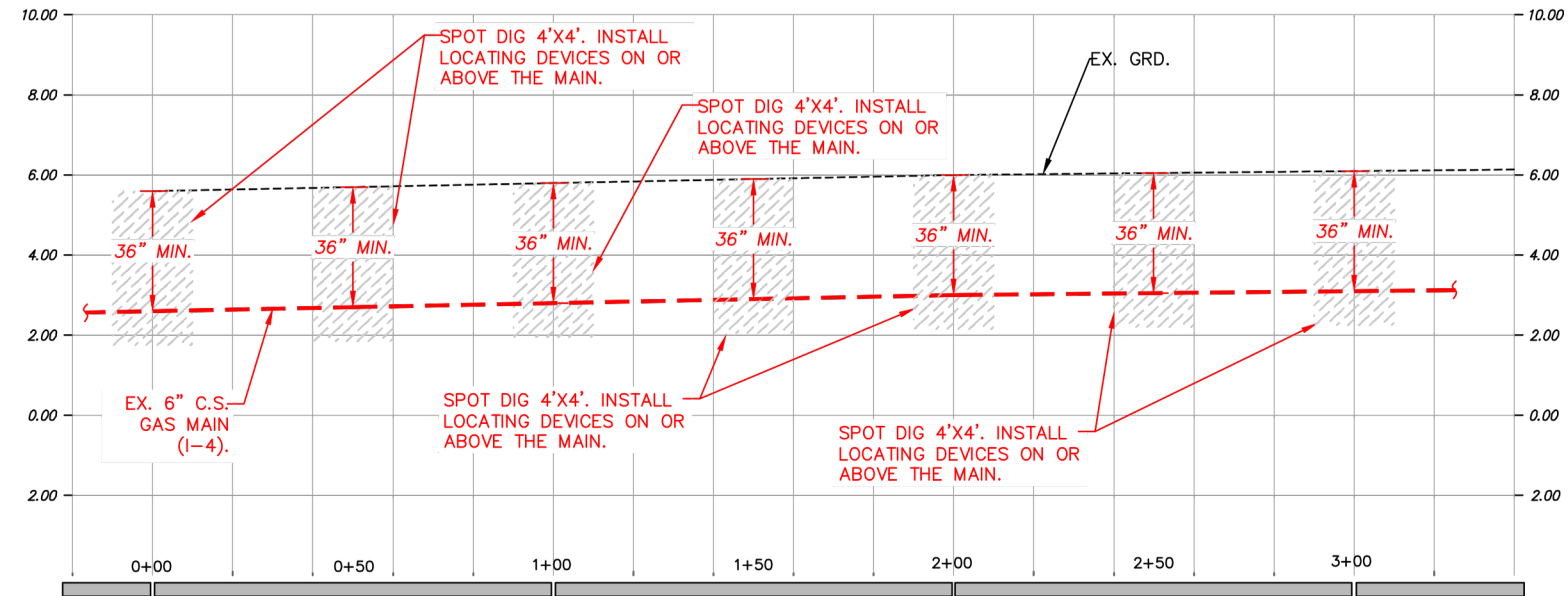
- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - F.M. FORCE MAIN
 - LIGHT POLE
 - SANITARY MANHOLE
 - FIRE HYDRANT
 - STORM DRAIN MANHOLE
 - CURB INLET
 - WATER VALVE
 - INLET PROTECTION
 - TREE PROTECTION

ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM—© FORT LAUDERDALE:
FORCE MAIN — BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS.
WATER — BROWARD COUNTY WATER & WASTEWATER SERVICES UTILITY ATLAS.



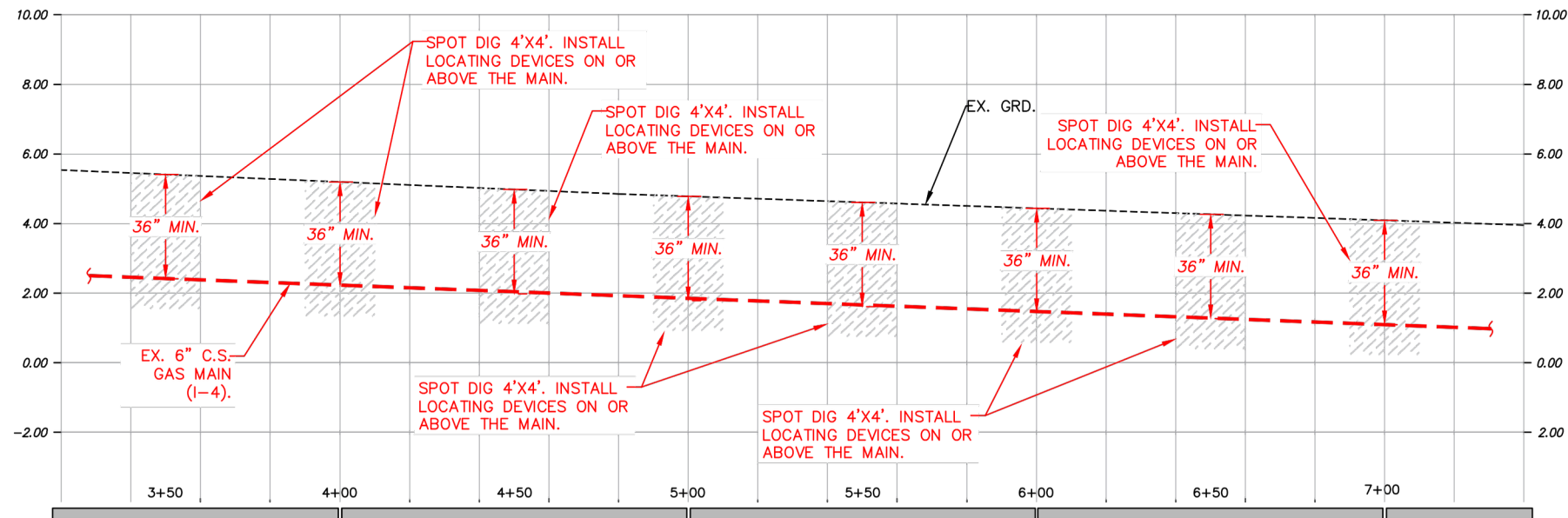
		REVIEWED BY: J. MONDRAGON DATE: 06-24-2025	1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.
PROJECT TYPE: SPOT DIG UNDETECTABLE MAINS		PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO.	DATE	REVISION	
NO. OF SHEETS: 12		SHEET NO.:	

TYPICAL PROFILE ALONG S STATE RD 7



PROFILE ALONG S STATE RD 7

SCALE: 1:40 (H) 1"=4' (V)



PROFILE ALONG S STATE RD 7

SCALE: 1:40 (H) 1"=4' (V)

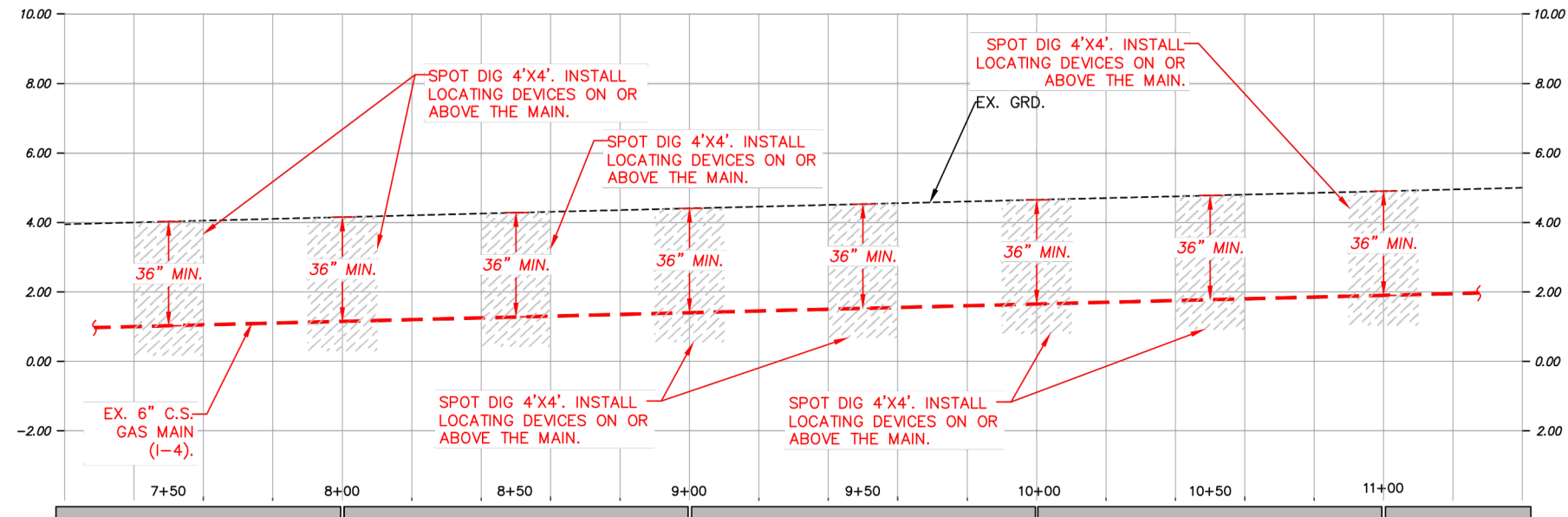


REVIEWED BY:
J. MONDRAGON
DATE:
06-24-2025

PROJECT TYPE:
PROFILES
PROJECT ADDRESS:
8751 W BROWARD BLVD #505
PLANTATION, FL 33325

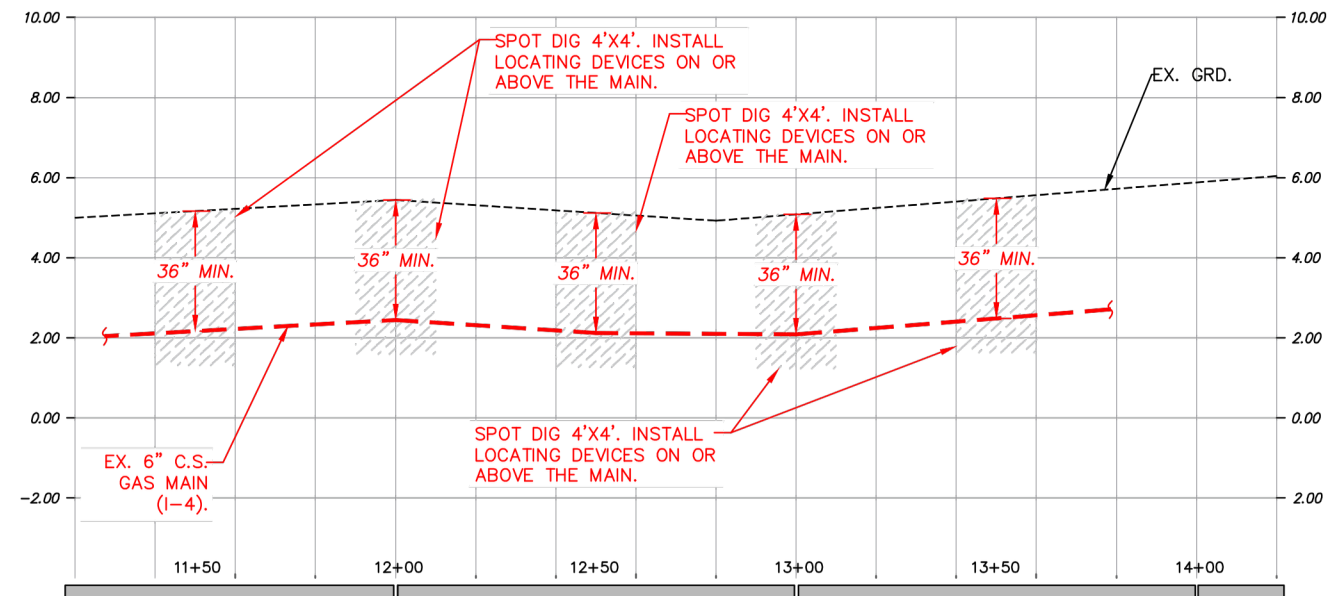
NO. DATE REVISION
NO. OF SHEETS: 12
SHEET NO.: 6

TYPICAL PROFILE ALONG S STATE RD 7



PROFILE ALONG S STATE RD 7

SCALE: 1:40 (H) 1"=4' (V)



PROFILE ALONG S STATE RD 7

SCALE: 1:40 (H) 1"=4' (V)

REVIEWED BY: J. MONDRAGON	DATE: 06-24-2025			
NINE ENGINEERING, INC. 8751 W BROWARD BLVD #505 PLANTATION, FL 33324				
PROJECT TYPE: PROFILES	PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325			
NO. DATE REVISION <table border="1"> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>				
NO. OF SHEETS: 12				
SHEET NO.: 7				



Natural Gas Designs

Gas Main

Orlando Dager
Orlando.Dager@9eng.com
Info@9eng.com
+1 (832) 525-6758

Sample: Gas Main Extension



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

LEGEND

- CL CENTER LINE
- ML MONUMENT LINE
- R/W RIGHT OF WAY
- P/L PROPERTY LINE
- E.O.P. EDGE OF PAVEMENT
- T.T. TAPPING TEE
- E.F.V. EXCESS FLOW VALVE
- SVC SERVICE LINE
- PE POLYETHYLENE
- C.S. COATED STEEL
- S.D. STORM DRAINAGE
- SAN. SANITARY SEWER
- W.M. WATER MAIN
- MANHOLE
- FIRE HYDRANT
- EM ELECTRONIC MARKER
- INLET PROTECTION
- LIGHT POLE
- SANITARY MANHOLE
- STORM DRAIN MANHOLE
- CURB INLET
- WATER VALVE
- GAS VALVE
- SEWER VALVE
- BORE PIT
- FIRE HYDRANT

NOTES

- CONSTRUCTION
1. LOCATE AND PROTECT ALL UTILITIES IN AREA OF CONSTRUCTION. SUNSHINE # 1-800-432-4770
 2. RESTORE ALL AREAS TO PRIOR CONDITIONS
 3. ALL CONSTRUCTION TO FOLLOW JURISDICTIONAL GOVERNMENT AND TPG STANDARDS.

GENERAL NOTES

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE BASE, MIN. 8" AND MAX. 18"
2. BASE MATERIAL SHALL BE PLACED IN 6" MAX. (LOOSE MEASUREMENT) LAYER AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAX. DENSITY PER AASH TO T-180
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE MATERIAL (1.5" MIN. THICKNESS)
5. BASE MATERIAL SHALL HAVE A MIN. LBR. OF 100 AND A MIN. CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS)
6. CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES

ATT EMERGENCY # 1- 866 - 844 - 5144

FPL EMERGENCY # 954 - 737 - 5000

FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011

XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278

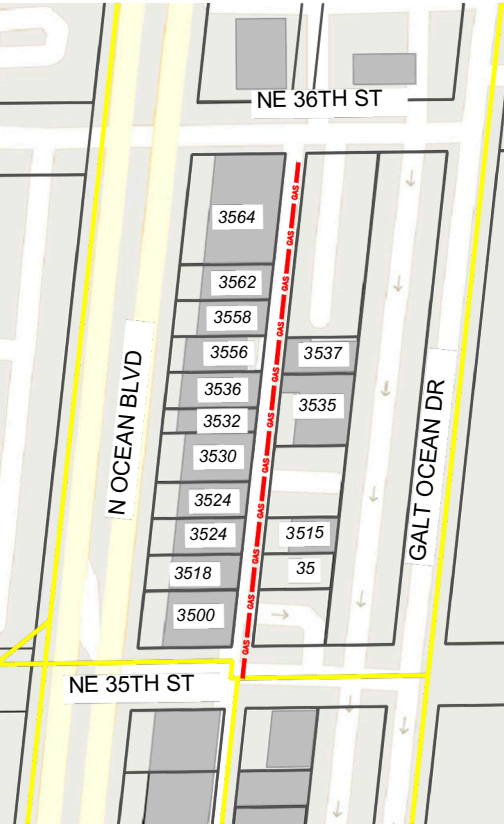
UTILITY WATER / SEWER 24 HOUR 954 - 828 - 8000



Know what's below.
Call before you dig.

SUNSHINE # 1-800-432-4770

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.



LOCATION MAP (N.T.S)

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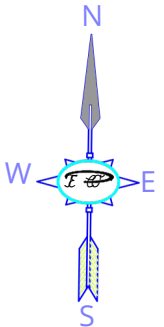
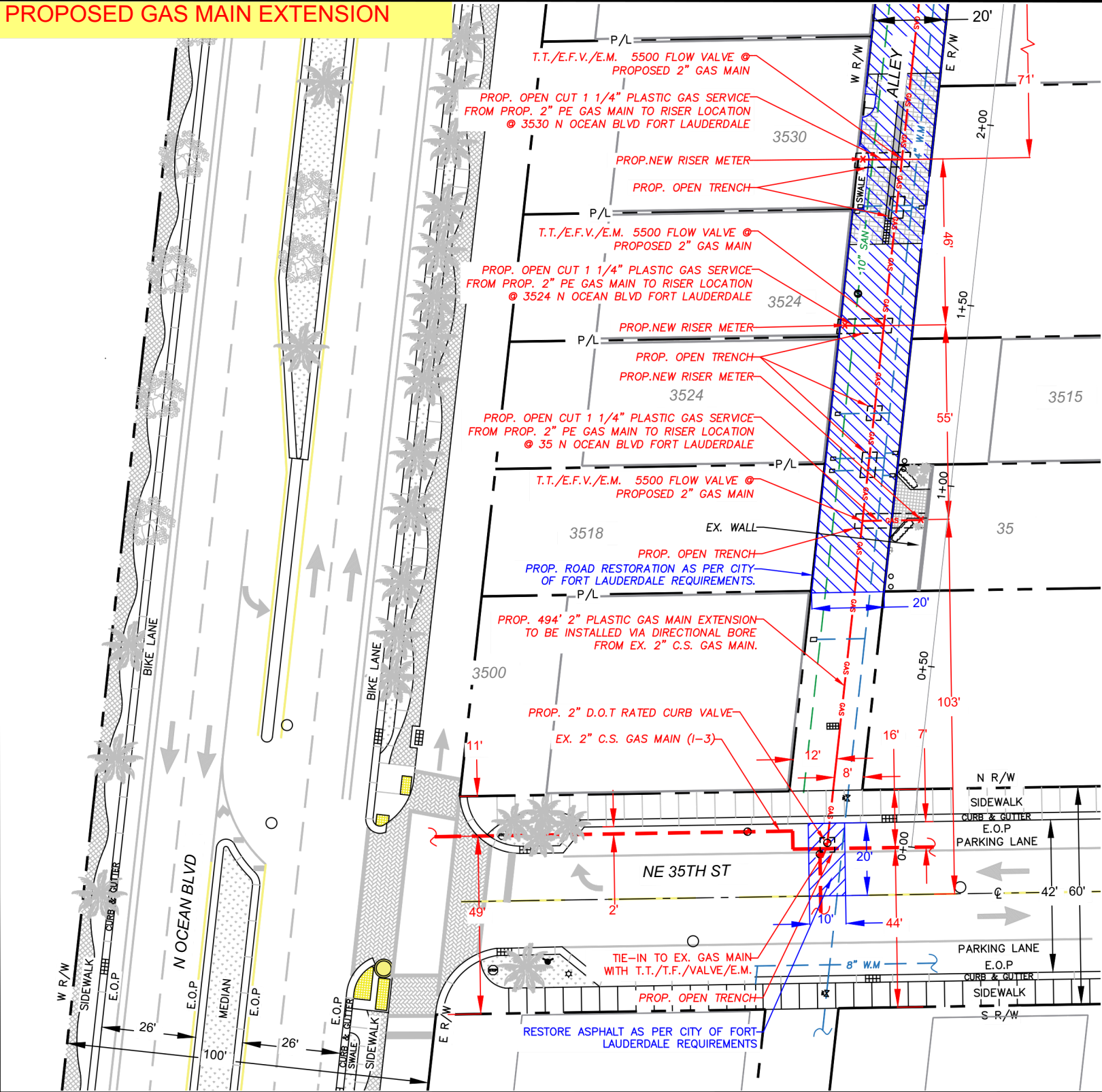
- PAGE 1 OF 7 ----- COVER
PAGE 2 OF 7 ----- DESIGN
PAGE 3 OF 7 ----- DESIGN
PAGE 4 OF 7 ----- FIELD PICTURES AND PROFILE
PAGE 5 OF 7 ----- FIELD PICTURES
PAGE 6 OF 7 ----- FIELD PICTURES
PAGE 7 OF 7 ----- MUNICIPALITY NOTES



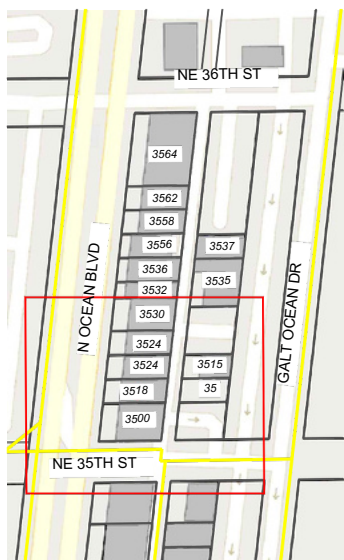
8751 W BROWARD BLVD #505
PLANTATION, FL 33324
954-909-0224 INFO@9ENG.COM

MATCH LINE - SEE SHEET 3 OF 7

PROPOSED GAS MAIN EXTENSION



- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - D.W. DRIVEWAY
 - FIRE HYDRANT
 - CURB INLET
 - SANITARY MANHOLE
 - WATER VALVE
 - WATER METER
 - GAS VALVE
 - STOP SIGN
 - LIGHT POLE
 - POLE



KEY MAP

CONTRACTOR TO REPLACE AFFECTED THERMOPLASTIC LANE MARKINGS ON ASPHALT

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

NOTE RESTORATION
PAVEMENT RESTORATION FOR UTILITIES WITHIN CITY RIGHT-OF-WAY RESTORATION WILL COVER FULL LANE WIDTH PROVIDE A MINIMUM 1 INCH MILLING AND RESURFACING WITH TYPE S-III ASPHALT AND TACK COAT FOR FINAL RESURFACE OF 5-ft. IN EACH DIRECTION OF CUT, PER CITY CODE OF ORDINANCES SECTION 25-108.

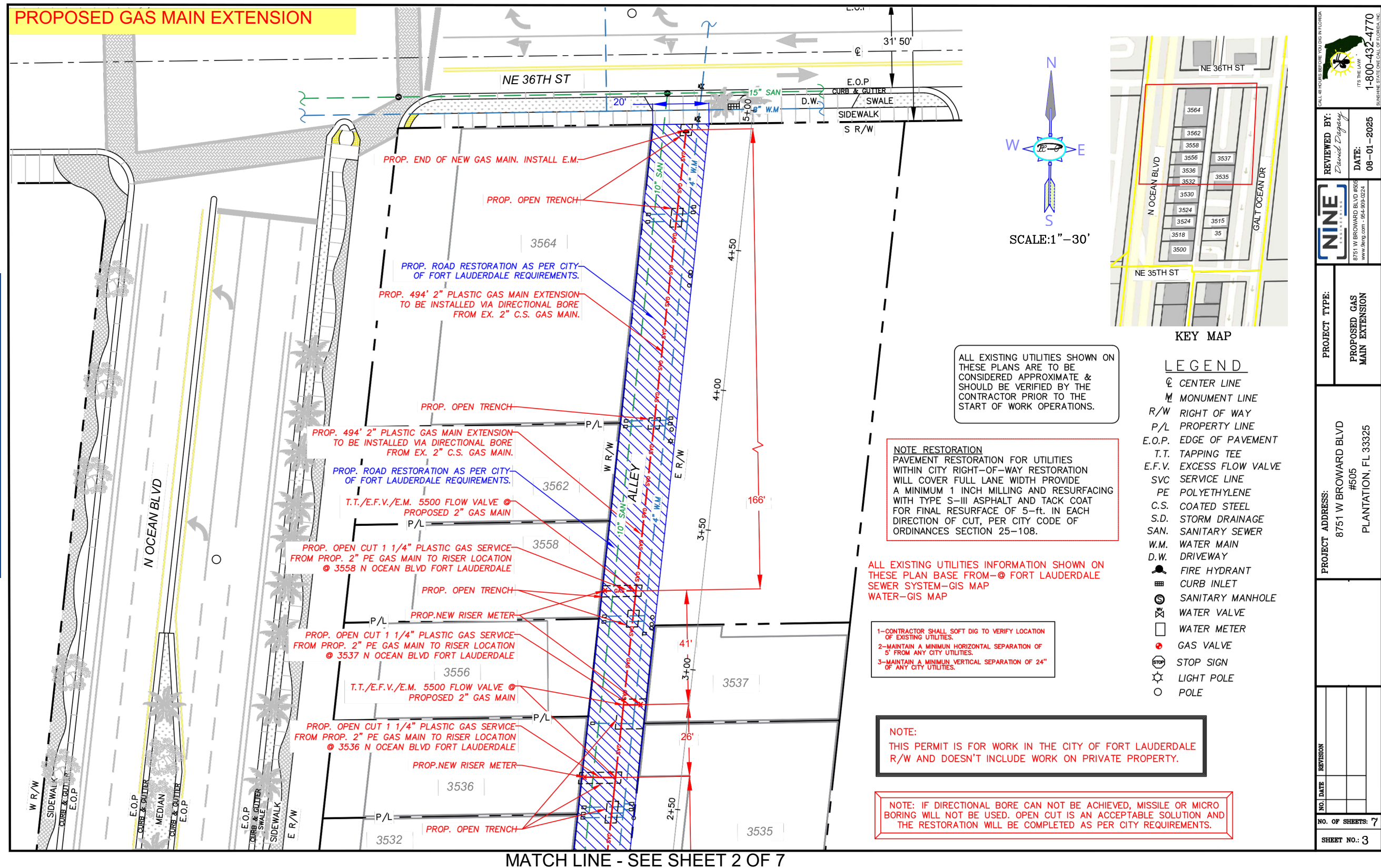
ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM--@ FORT LAUDERDALE SEWER SYSTEM-GIS MAP WATER-GIS MAP

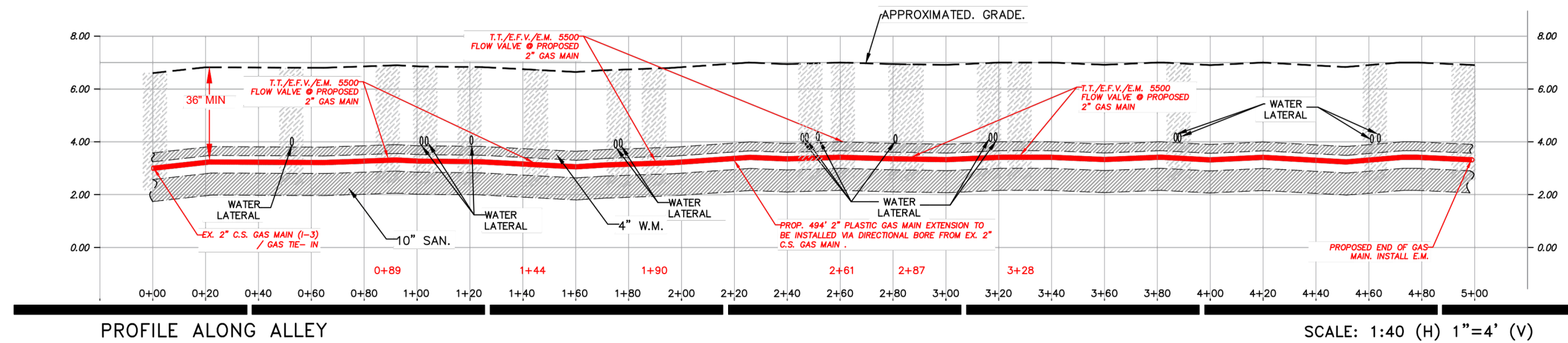
- 1-CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES.
- 2-MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 5' FROM ANY CITY UTILITIES.
- 3-MAINTAIN A MINIMUM VERTICAL SEPARATION OF 24" OF ANY CITY UTILITIES.

NOTE:
THIS PERMIT IS FOR WORK IN THE CITY OF FORT LAUDERDALE R/W AND DOESN'T INCLUDE WORK ON PRIVATE PROPERTY.

NOTE: IF DIRECTIONAL BORE CAN NOT BE ACHIEVED, MISSILE OR MICRO BORING WILL NOT BE USED. OPEN CUT IS AN ACCEPTABLE SOLUTION AND THE RESTORATION WILL BE COMPLETED AS PER CITY REQUIREMENTS.

REVIEWED BY: David Dwyer		DATE: 08-01-2025	
PROJECT TYPE: PROPOSED GAS MAIN EXTENSION		PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO. DATE		REVISION	
NO. OF SHEETS: 7		SHEET NO.: 2	





CALL 800-BEFORE YOU DIG IN FLORIDA IT'S THE LAW 1-800-432-4770 FLORIDA STATE ONE CALL OF FLORIDA, INC.	
REVIEWED BY: David Degay DATE: 08-01-2025	PROJECT TYPE: FIELD PICTURES AND PROFILE
PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	NO. OF SHEETS: 7 SHEET NO.: 5
NO. DATE REVISION	

Sample: Gas Main Extension

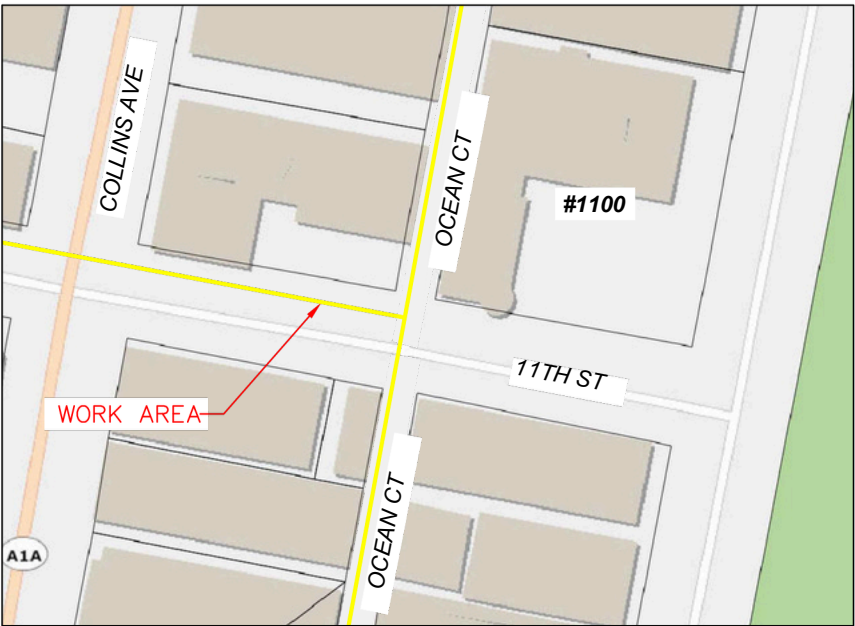
Info@9eng.com

Sample: After the Fact Gas Leak Repair



8751 W BROWARD BLVD #505
PLANTATION, FL 33325

- LEGEND**
- CL CENTER LINE
 - ML MONUMENT LINE
 - R/W RIGHT OF WAY
 - P/L PROPERTY LINE
 - E.O.P. EDGE OF PAVEMENT
 - T.T. TAPPING TEE
 - E.F.V. EXCESS FLOW VALVE
 - SVC SERVICE LINE
 - PE POLYETHYLENE
 - C.S. COATED STEEL
 - S.D. STORM DRAINAGE
 - SAN. SANITARY SEWER
 - W.M. WATER MAIN
 - MANHOLE
 - FIRE HYDRANT
 - EM ELECTRONIC MARKER
 - INLET PROTECTION
 - LIGHT POLE
 - SANITARY MANHOLE
 - STORM DRAIN MANHOLE
 - CURB INLET
 - WATER VALVE
 - GAS VALVE
 - SEWER VALVE
 - BORE PIT
 - FIRE HYDRANT



LOCATION MAP (N.T.S)

J	PREMISE: XXXXXXXXX
PROJECT DESCRIPTION: AFTER THE FACT GAS LEAK REPAIRED.	

INDEX

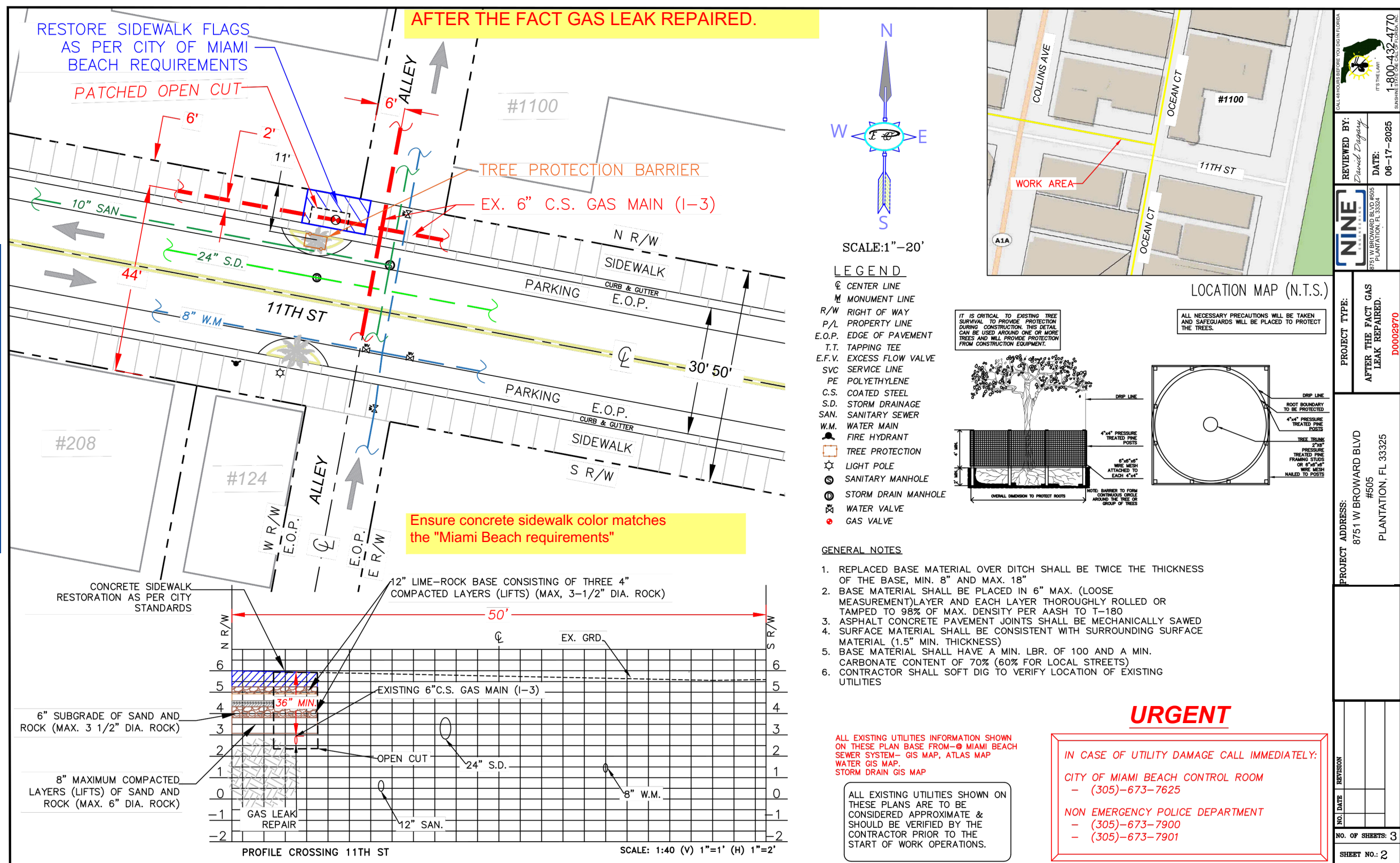
PAGE 1 OF 3	-----	COVER
PAGE 2 OF 3	-----	DESIGN
PAGE 3 OF 3	-----	FIELD PICTURES

811
Know what's below.
Call before you dig.
SUNSHINE # 1-800-432-4770

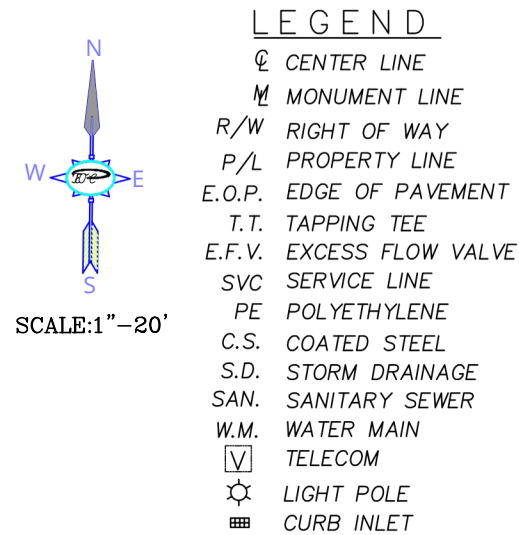
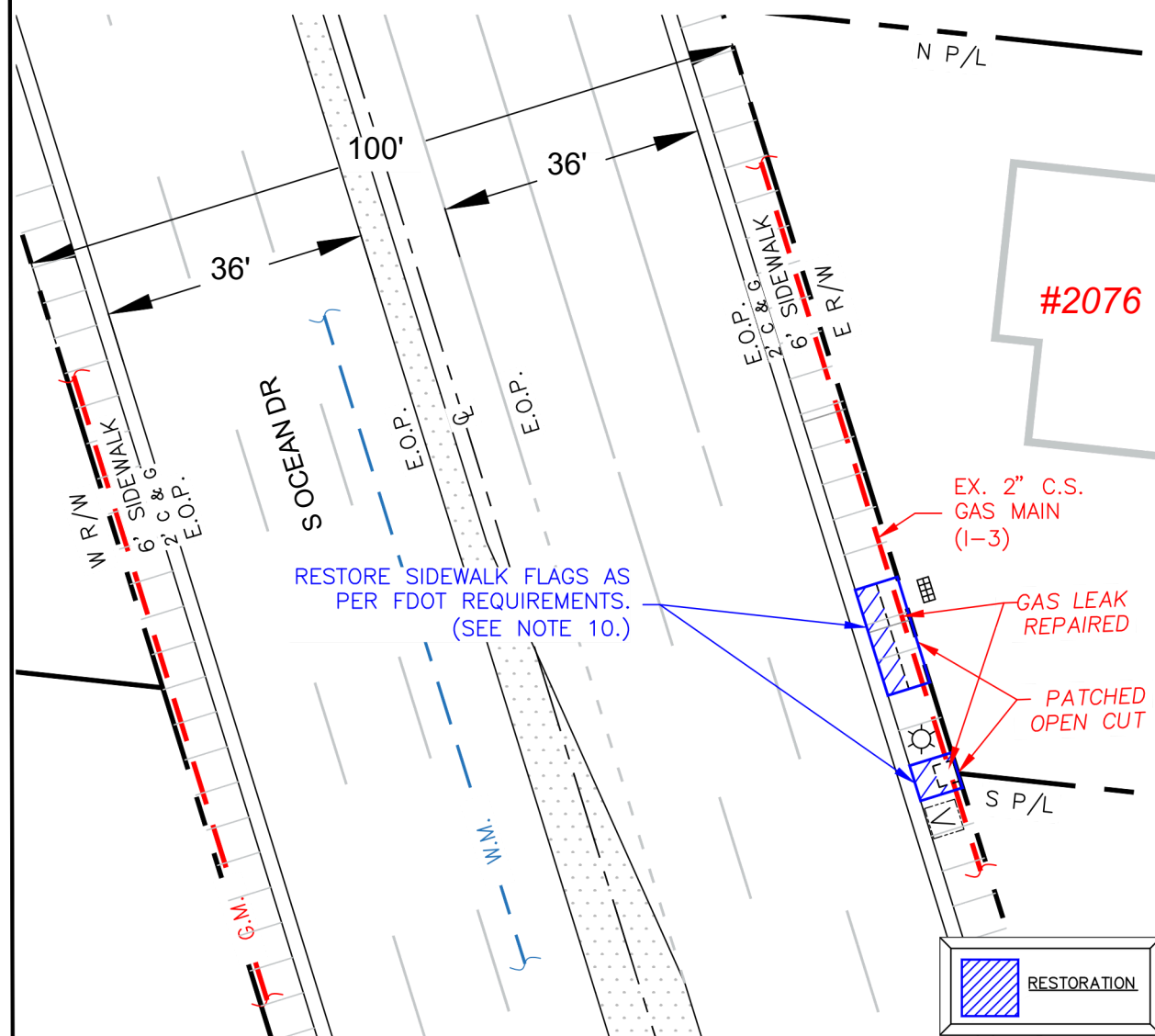
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

ATT EMERGENCY # 1- 866 - 844 - 5144
FPL EMERGENCY # 954 - 737 - 5000
FIBERNET/CROWN EMERGENCY # 1- 800 - 788 - 7011
XFINITY /COMCAST EMERGENCY # 1- 800 - 266 - 2278

	 8751 W BROWARD BLVD #505 PLANTATION, FL 33324 954-909-0224 INFO@9ENG.COM
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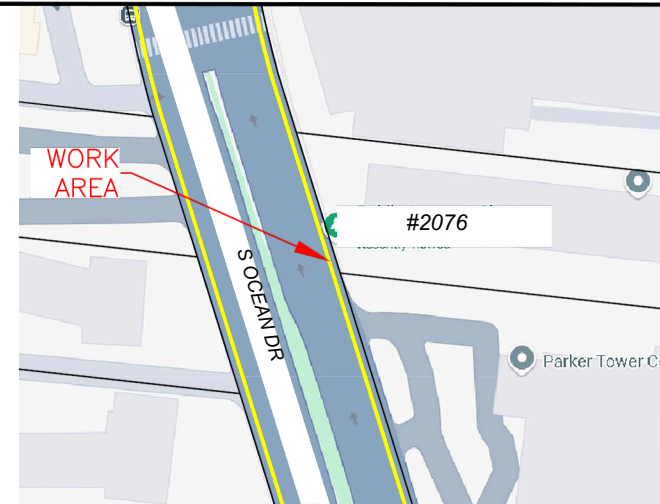


AFTER THE FACT GAS LEAK REPAIRED.



GENERAL NOTES

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE BASE, MIN. 8" AND MAX. 18"
2. BASE MATERIAL SHALL BE PLACED IN 6" MAX. (LOOSE MEASUREMENT) LAYER AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAX. DENSITY PER AASH TO T-180
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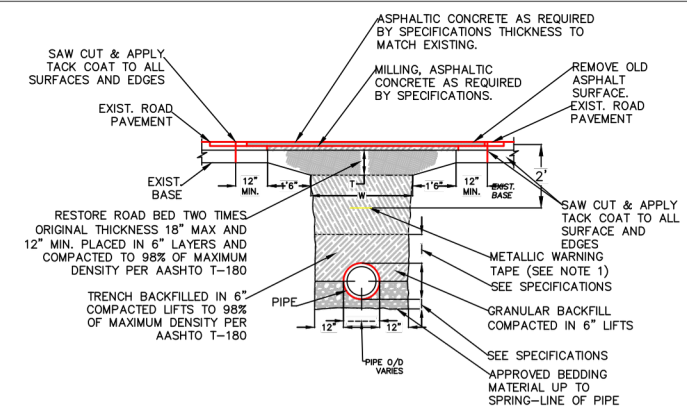


LOCATION MAP (N.T.S.)

ALL EXISTING UTILITIES INFORMATION SHOWN ON THESE PLAN BASE FROM HALLANDALE BEACH REQUIREMENTS.

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

RESTORATION DETAIL FOR ASPHALT

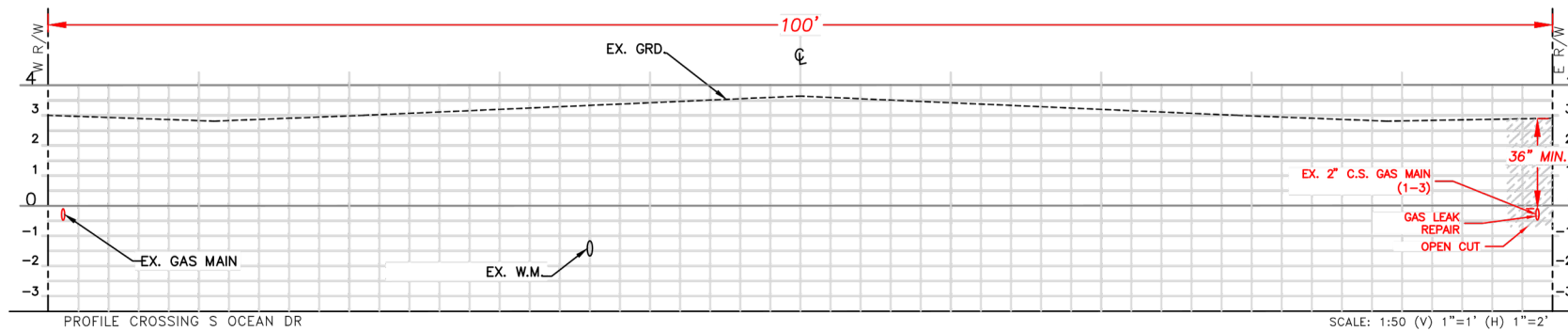


NOTES:

1. METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE ABOVE MAIN. (SEE SPECIFICATION 2320 SECTION 3.6 FOR MARKING TYPE)
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.

TYPICAL TRENCH AND PAVEMENT RESTORATION FOR TRANSVERSE CROSSING

100



REVIEWED BY: David Dugan		DATE: 05-05-2025	
PROJECT TYPE: AFTER THE FACT GAS LEAK REPAIRED.		PROJECT ADDRESS: 8751 W BROWARD BLVD #505 PLANTATION, FL 33325	
NO. DATE REVISION		PREMISE #	
NO. OF SHEETS: 4		SHEET NO.: 2	

U.S. Army Corps of Engineers

Intercoastal Work

Orlando Dager
Orlando.Dager@9eng.com
Info@9eng.com
+1 (832) 525-6758



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
701 SAN MARCO BOULEVARD JACKSONVILLE, FLORIDA
32207



August 14, 2025

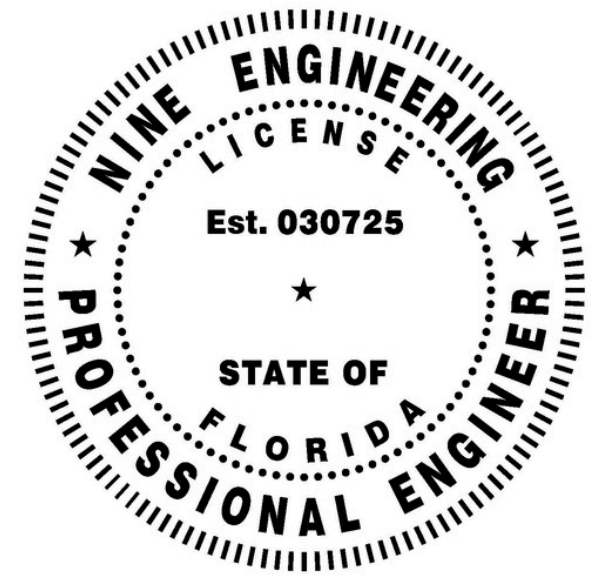
Regulatory Division
South Branch
Miami Permits Section
SAJ-2025-01648 (NWP-SDR)

Orlando Dager
NineEngineering
8751W Broward Blvd. #505
Plantation, FL 3332
Sent via email: Orlando.Dager@9ENG.com

Dear Applicant:

The U.S. Army Corps of Engineers (Corps) has completed the review of your application for a Department of the Army permit received on June 6, 2025. Your application was assigned file number SAJ-2025-01648. A review of the information and drawings provided indicates that the proposed work would result in the installation of approximately 400 linear feet (150 linear feet of which is subaqueous) of two (2) 4.0" HDPE conduits beneath the Bay Harbor Waterway Canal via horizontal directional drill method. The activities subject to this permit are authorized pursuant to authorities under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403). The project is located across a segment of Bay Harbor Waterway Canal adjacent to 96th St (Kane Concourse), within Section 27, Township 52 S, Range 42 E; at centroid coordinates Latitude 25.886621° and Longitude -80.1340083°; in Bay Harbor Islands, Miami-Dade County, Florida.

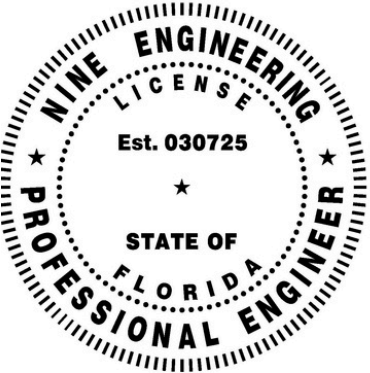
Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) 57 (Electric Utility Line and Telecommunications Activities). **This verification is valid until March 14, 2026.** In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the Nationwide Permit General Conditions, the Jacksonville District Regional Conditions, and the General and Project-Specific Special Conditions listed below. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP. You can access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Source Book webpage for links to view NWP information at: <https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/>. Please be aware this Internet address is case sensitive and should be entered as it



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13 of 14	PLAT BOOK 46-5
14 of 14	SURVEY



TWP/RNG/SEC: 52 / 42 / 27 PLAT BOOK: 46 PAGE: 5



Know what's below
Call before you dig

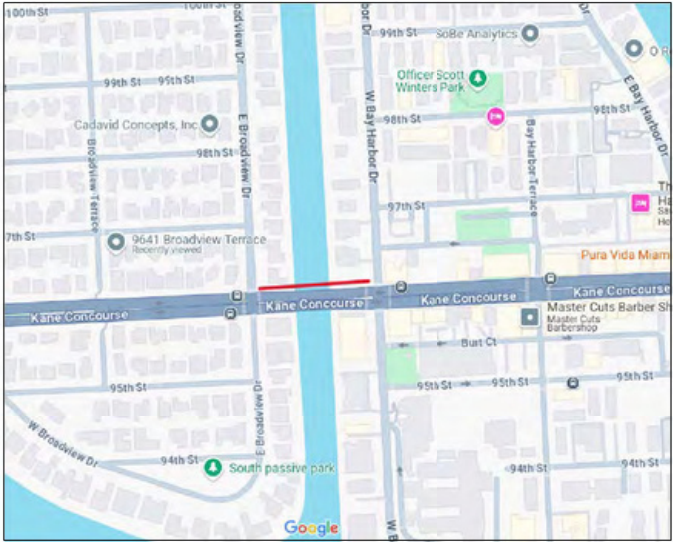
UNDERGROUND CABLE CONSTRUCTION

INDEX SHEET

PERMITTING AGENCY: DERM - USAGE - FDOT	PROJECT: FTTP
DATE: MAY 28TH, 2025	TRACKING #: 25C-90011
SCALE: N.T.S	LOCATION: BAY HARBOR WATERWAY - 96TH ST. (KANE CONCOURSE)
FILE NAME: JB0001936848	SHEET NUMBER: 01 OF 14

LOCATION MAP

N.T.S.



PROJECT TYPE

☐ NEW BUILD

☐ MAINTENANCE

☐ SPAN REPLACEMENT

☐ METRO-E

☐ HYPERBUILD

☐ SMB

☐ RESIDENTIAL

☐ NODE SPLIT

☐ FORCED RELOCATION

☐ PLANT EXTENSION

☐ POWER SUPPLY

☐ C.O.I.

☐ EASEMENT ACQUISITION

☒ RE-WIRE

☒ FTTP

CONSTRUCTION NOTES:

1. MINIMUM THICKNESS OF ASPHALT RESTORATION SHALL BE 1-1/2"

2. MINIMUM DIMENSIONS OF ASPHALT RESTORATION SHALL BE 10 FEET X 10 FEET

3. DENSITY COMPACTION TEST SHALL BE PERFORMED ON COMPACTED MATERIAL TO ARCHIVE 98% PROCTOR ON ROADWAY AND 95% PROCTOR ON SHOULDER. RESULTS SHALL BE SUBMITTED TO RODNEY CARRERO SANTANA AND E-MAILED TO rdaniel@bayhaborislands-fl.gov FOR REVIEW PRIOR TO ASPHALT.

4. PROVIDE A SCHEDULE OF WORK WITH START AND FINISH TIMES FOR ALL PROJECT ELEMENTS.E-MAIL TO ADDRESS ABOVE.

5. AFTER THE PERMIT BEEN APPROVED, CONTRACTOR SHALL CALL TO ARRANGE A PRE-CONSTRUCTION MEETING

6. CONTRACTOR SHALL SOFT DIG TO VERIFY LOCATION OF EXISTING UTILITIES

7. EXCAVATE FOR NEW GAS SERVICE AND REMOVE ALL SPOIL FROM EXCAVATION; EXCAVATION SHALL BE FILLED COMPACTED LIMEROCK

8. ENSURE THAT STEEL PLATES ARE ON SITE TO OPEN ROADWAY TO TRAFFIC AT THE END OF THE WORKING DAY.

9. HOURS OF CONSTRUCTION ON THE WEST ISLAND STARTS AT 9:00AM. NO WORK CAN BE PERFORMED BEFORE THAT TIME.

10. CONTRACTOR SHALL SUBMIT AN MOT PERMIT APPLICATION WITH THE PUBLIC WORKS DEPARTMENT. MOT DETAILS SHALL BE PROVIDED WITH THE APPLICATION. CONTACT rdaniel@bayhaborislands-fl.gov FOR THE APPLICATION FORM.

11. CONTRACTOR SHALL SCHEDULE AN OFF DUTY OFFICER FOR THE WORK PERFORMED WITHIN THE RIGHT OF WAY.

PROJECT:

BAY HARBOR WATERWAY

PERMIT AGENCY : DERM - USACE - FDOT

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FOOTAGE DATA

PLACEMENT DESCRIPTION	FTG
BURIED ROUTE	397'
VAULTS	2

LINETYPES

CATV - Proposed UG

CATV - Proposed OH

Right of Way Line

Easement

Centerline

Property Line

Buried Electric

Water

Sanitary Sewer

Force Main

Storm Sewer

Buried Telephone

Gas

Traffic

Existing CATV

Other FOC

Guardrail

Fence

Proposed Trench

Proposed Fiber

Proposed Coax

SYMBOLS

CATV Service Box

CATV Vault - Proposed

Fiber Vault

Utility Pole

Light Pole

Mast Arm Signal Pole

Traffic Cabinet

Sanitary Manhole

Storm Manhole

Storm Inlet

Traffic Vault

Traffic Pullbox

Telephone Manhole

Telephone Cabinet

Fire Hydrant

Water Valve

Electric Manhole

Power Transformer

Existing Ped

Proposed Ped

Proposed Splice Case

Proposed Down Guy & Anchor

Slack Coil

MOT NOTES:

TRAFFIC CONTROL SHALL COMPLY WITH
FEDERAL MANUAL ON UNIFORM TRAFFIC
CONTROL DEVICES (MUTCD) AND
F.D.O.T. DESIGN STANDARD

NOTES AND SPECIFICATIONS

(WHEN APPLICABLE)

- SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT FOR DUCTBANK INSTALLATION. BACKFILL, RESTORE AND REPAVE AS PER PERMITTING SPECIFICATIONS GOVERNMENT AGENCY.

- PLACE FLUSH MOUNTED CONCRETE VAULTS IN SIDEWALK AT LOCATIONS NOTED.

- ALL TRENCHES SHALL BE BACKFILLED AND TAMPED IN 6" LAYERS AS PER PERMITTING SPECIFICATIONS GOVERNMENT AGENCY.

- REPLACE TO EXPANSION JOINTS WHEN RESTORING CONCRETE SIDEWALKS.

- MINIMUM CLEARANCE FROM DUCTBANK TO CROSSING OTHER UTILITIES IS TO BE 24".

- MINIMUM CLEARANCE FROM DUCTBANK TO PARALLELING OTHER UTILITIES IS TO BE 24".

- TUNNEL UNDER ALL CURBS AND GUTTERS.

- PLACE MARKER TAPE 12" ABOVE DUCTBANK THROUGHOUT ROUTE.

- HAND TRENCHING IS REQUIRED WHERE DUCTBANK CROSSES OTHER UTILITIES. SUPPORT EXISTING UTILITIES EXPOSED DURING EXCAVATION TO PREVENT DAMAGE DUE TO SAGGING AND DISTORTION.

- INFORMATION SHOWN ON DRAWINGS REGARDING THE PRESENCE, CHARACTER AND LOCATION OF EXISTING UTILITIES IS A SCHEMATIC REPRESENTATION TAKEN FROM THE BEST AVAILABLE INFORMATION. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION. UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED.

- NO CONSTRUCTION SHALL COMMENCE PRIOR TO THE LOCATION OF ALL UNDERGROUND UTILITIES. UTILITY LOCATION SERVICE: 1-800-432-4770.

- THIS NOTES APPLY TO ALL PERMITS IN THIS SET.

- USE THE "ACUPUNCTURE TYPE MISSILE" FOR ALL SIDEWALK CROSSINGS AND DRIVEWAY CROSSINGS UP TO 40' MAXIMUM.

- ALL OPEN ASPHALT CUTS SHALL BE RESTORED TO PERMITTING AUTHORITY "MINIMUM STANDARDS" WHEN APPLICABLE.

- CONTRACTOR TO FIELD ADJUST ACTUAL LOCATION OF THE PROPOSED WORK TO MEET THE MINIMUM SEPARATION REQUIREMENTS.

- EXACT LOCATION OF TRENCH MAY VARY DUE TO THE LOCATION OF EXISTING UTILITIES AND OTHER HAZARDS.

- NO OPEN TRENCH TO LEFT OVERNIGHT, UNLESS THERE IS A UTILITY DAMAGED, IN THAT CASE CONTRACTOR SHALL PLACE A SAFETY NETTING AROUND OPEN TRENCH.

TWP/RNG/SEC: 52 / 42 / 27

PLAT BOOK: 46 PAGE: 5

DRAWN BY:





Know what's below
Call before you dig

UNDERGROUND CABLE CONSTRUCTION

COVER SHEET

PERMITTING AGENCY:
DERM - USACE - FDOT

DATE:
MAY 28TH, 2025

SCALE:
N.T.S

FILE NAME:
JB0001936848

PROJECT:
FTTP

TRACKING #:
25C-90011

LOCATION:
BAY HARBOR WATERWAY -
96TH ST. (KANE CONCOURSE)

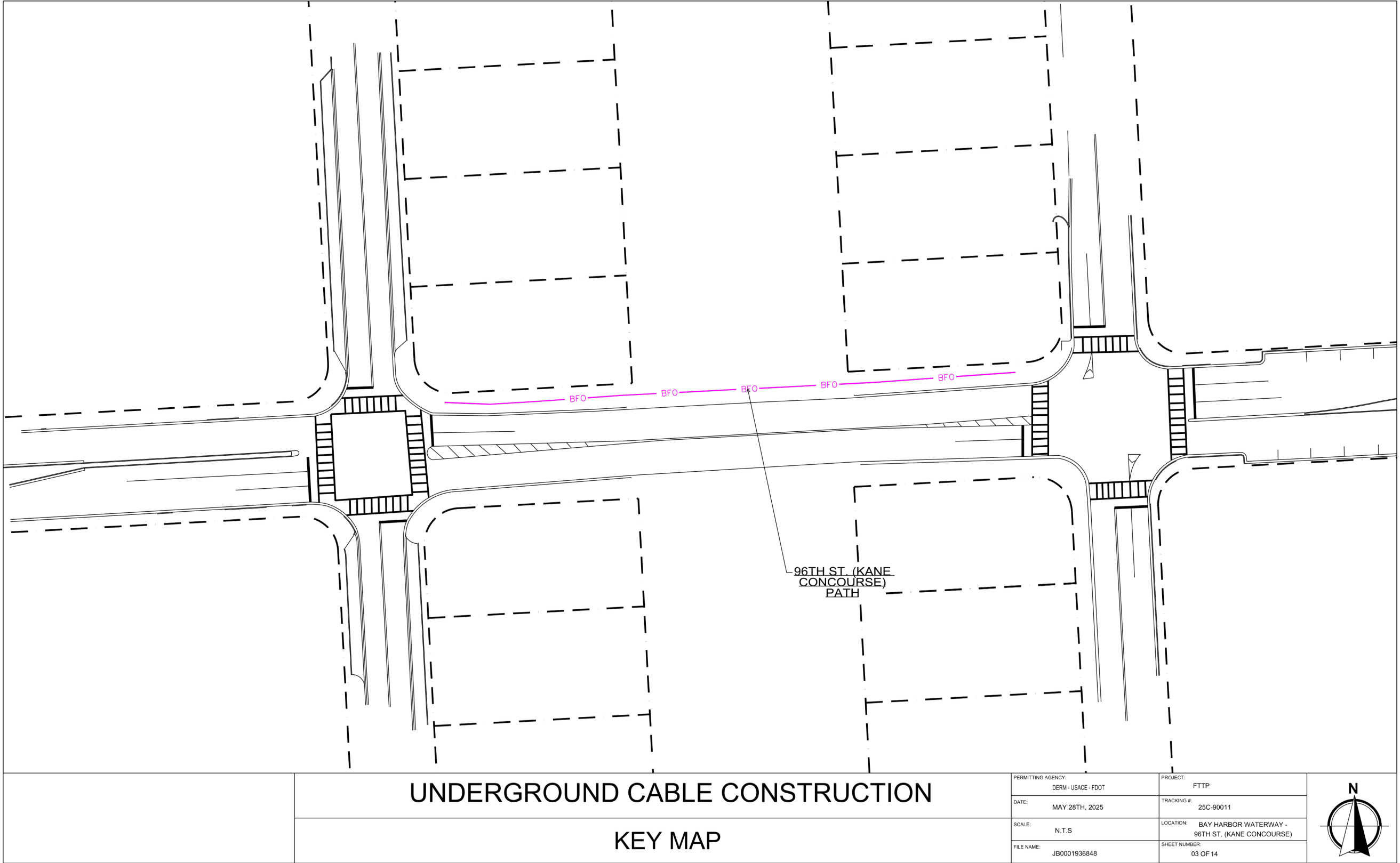
SHEET NUMBER:
02 OF 14



Sample: Intercoastal Work

Info@9eng.com

57



NOTES:

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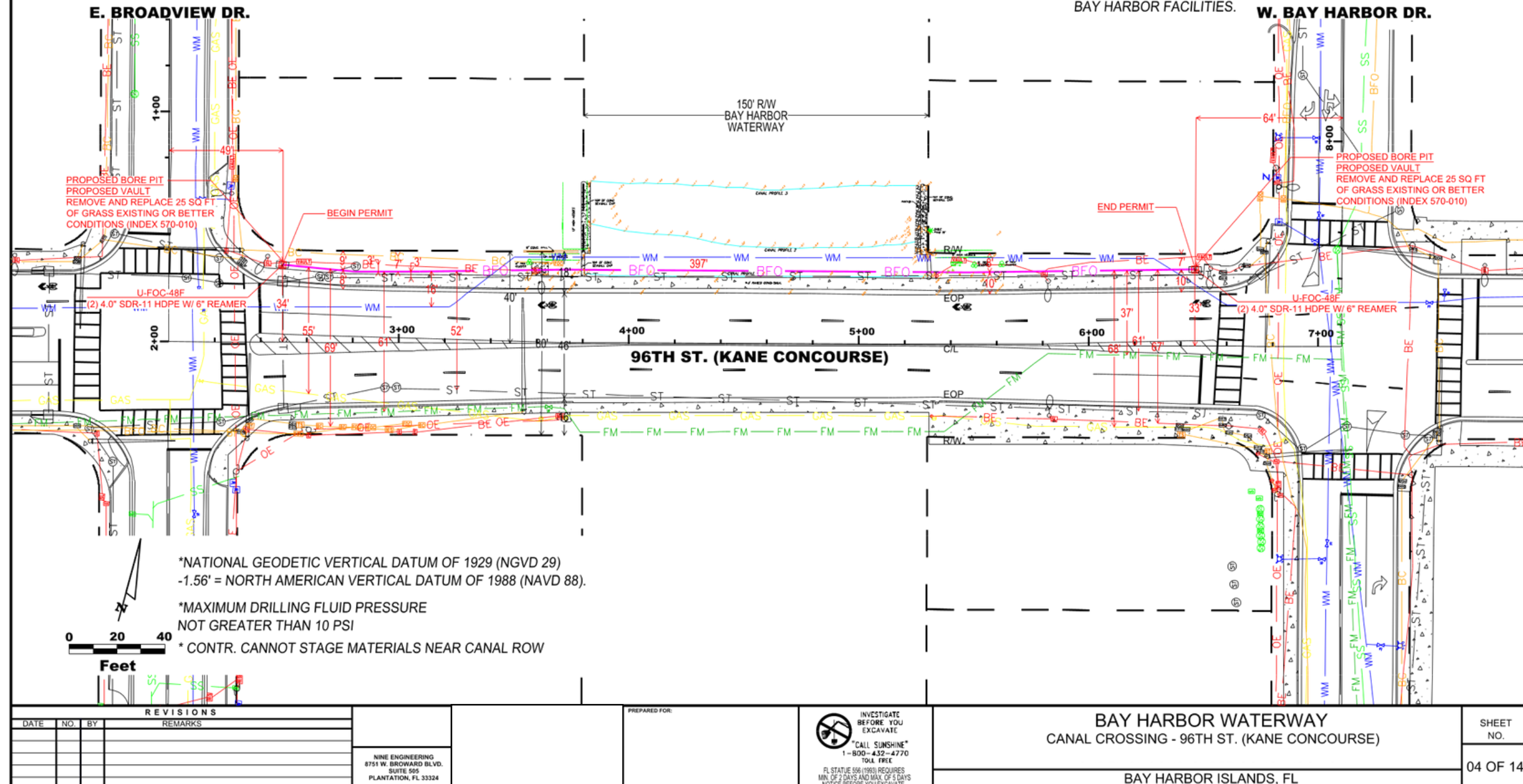
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12. CONTRACTOR TO MAINTAIN A MIN. OF 24" -36" OF VERTICAL SEPARATION AND A MIN. OF 5' HORIZONTAL SEPARATION FROM BAY HARBOR FACILITIES.



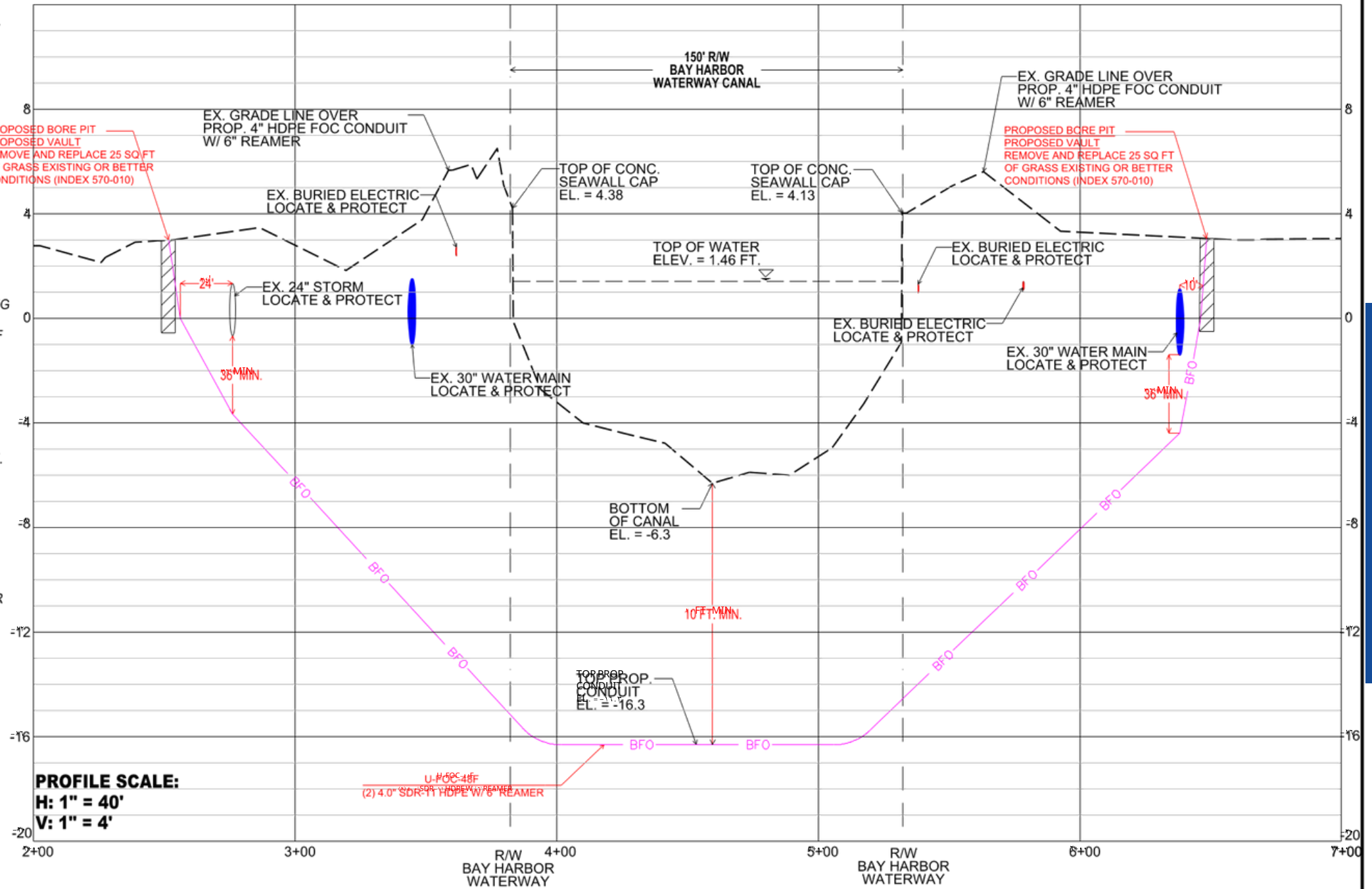
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*MAXIMUM DRILLING FLUID PRESSURE NOT GREATER THAN 10 PSI

*NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)
-1.56' = NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

* CONTR. CANNOT STAGE MATERIALS NEAR CANAL ROW



PROFILE SCALE:
H: 1" = 40'
V: 1" = 4'

**PROP. 4.0" SDR-11 HDPE W/ 6" REAMER PROFILE
ALONG 96TH ST. (KANE CONCOURSE)
CROSSING BAY HARBOR WATERWAY**

DATE	NO.	BY	REMARKS



BAY HARBOR WATERWAY
CANAL CROSSING - 96TH ST. (KANE CONCOURSE)
UNDERGROUND CABLE CONSTRUCTION
BAY HARBOR ISLANDS, FL

SHEET NO.
06 OF 14

Site Specific Traffic Control (MOT)

Temporary Traffic Control

Orlando Dager
Orlando.Dager@9eng.com
Info@9eng.com
+1 (832) 525-6758



Certificate:

630459

Issued: 09/23/2024

Expires: 09/16/2028

Instructor: K R

ORLANDO DAGER

Has Completed a FDOT Approved Temporary Traffic Control: Advanced Course.

Training Provider:



American Traffic Safety Services Association
(ATSSA)

15 Riverside Parkway Ste.100

Fredericksburg, VA 22406

Ph: 540-368-1701

Verify this Certificate at www.motadmin.com.

Introduction

At Nine Engineering, we ensure safe and efficient traffic flow around work zones through expertly designed Maintenance of Traffic (MOT) plans. Whether for construction, utility work, or road maintenance, our temporary traffic control strategies protect workers and the public while minimizing disruption.

SAMPLE MOT

8751 W BROWARD BLVD #505
PLANTATION, FL 33325

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54 of 55	W 60 ST	PHASE 49
55 of 55	W 61 ST	PHASE 50





Certificate:
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Expires: 09/16/2028

Instruction: R

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American Traffic Safety Services Association (ATSSA)
15 Riverside Parkway Ste.100
Fredericksburg, VA 22406
Ph: 540 368 1701
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DRAWN BY:



954-298-6561

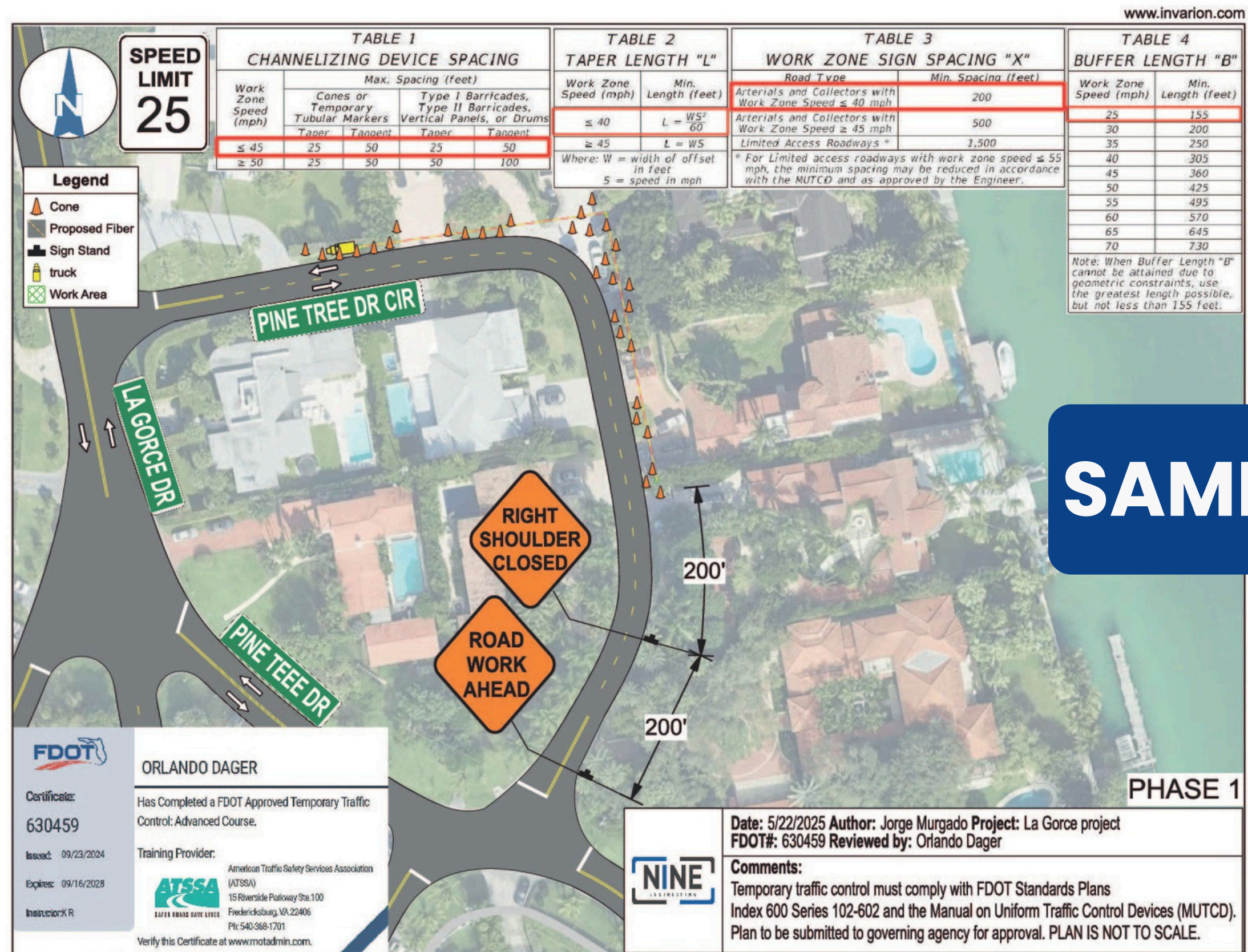
DETAIL SITE SPECIFIC MOT

COVER SHEET

PERMITTING AGENCY:	CITY OF MIAMI BEACH	PROJECT:	NEW BUILD
DATE:	JUNE 3, 2025	TRACKING #:	25C-00018
SCALE:		LOCATION:	5435 ALTON RD
FILE NAME:	J80001866315	SHEET NUMBER:	01 OF 55

SAMPLE MOT



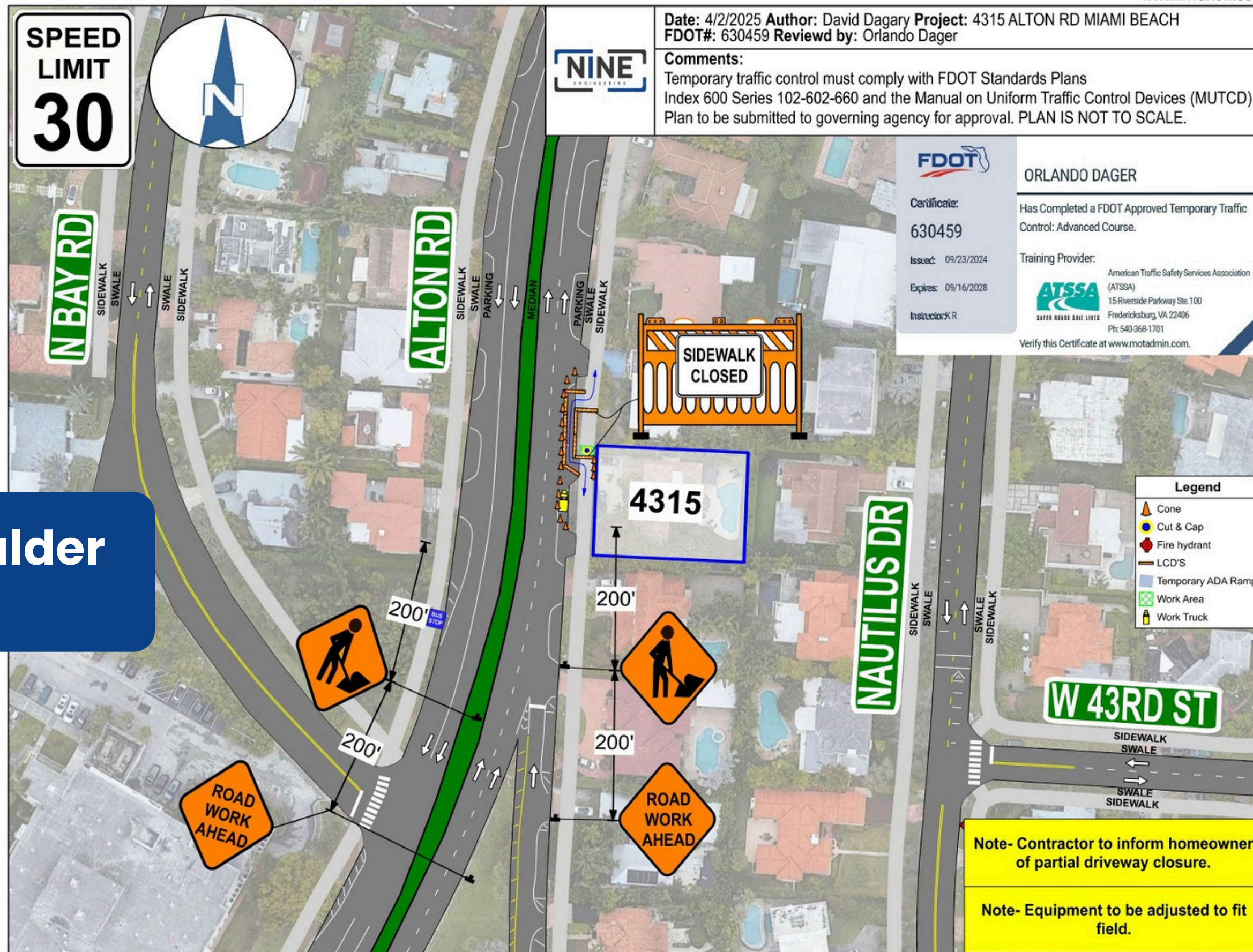


SAMPLE MOT

www.invarion.com



MOT – Shoulder Closure



Legend

- Cone
- Fire hydrant
- LCD
- truck
- Work Area

FDOT

Certificate: 630459

Issued: 09/23/2024

Expires: 09/16/2028

Instructor: K

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15 Riverside Parkway Ste.100
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**TABLE 2
TAPER LENGTH "L"**

Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	$L = WS$

Where: W = width of offset in feet
S = speed in mph

**TABLE 4
BUFFER LENGTH "B"**

Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.

**TABLE 1
CHANNELIZING DEVICE SPACING**

Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Tubular Panels, or Drums	
	Taper	Tangent	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100

**TABLE 3
WORK ZONE SIGN SPACING "X"**

Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways *	1,500

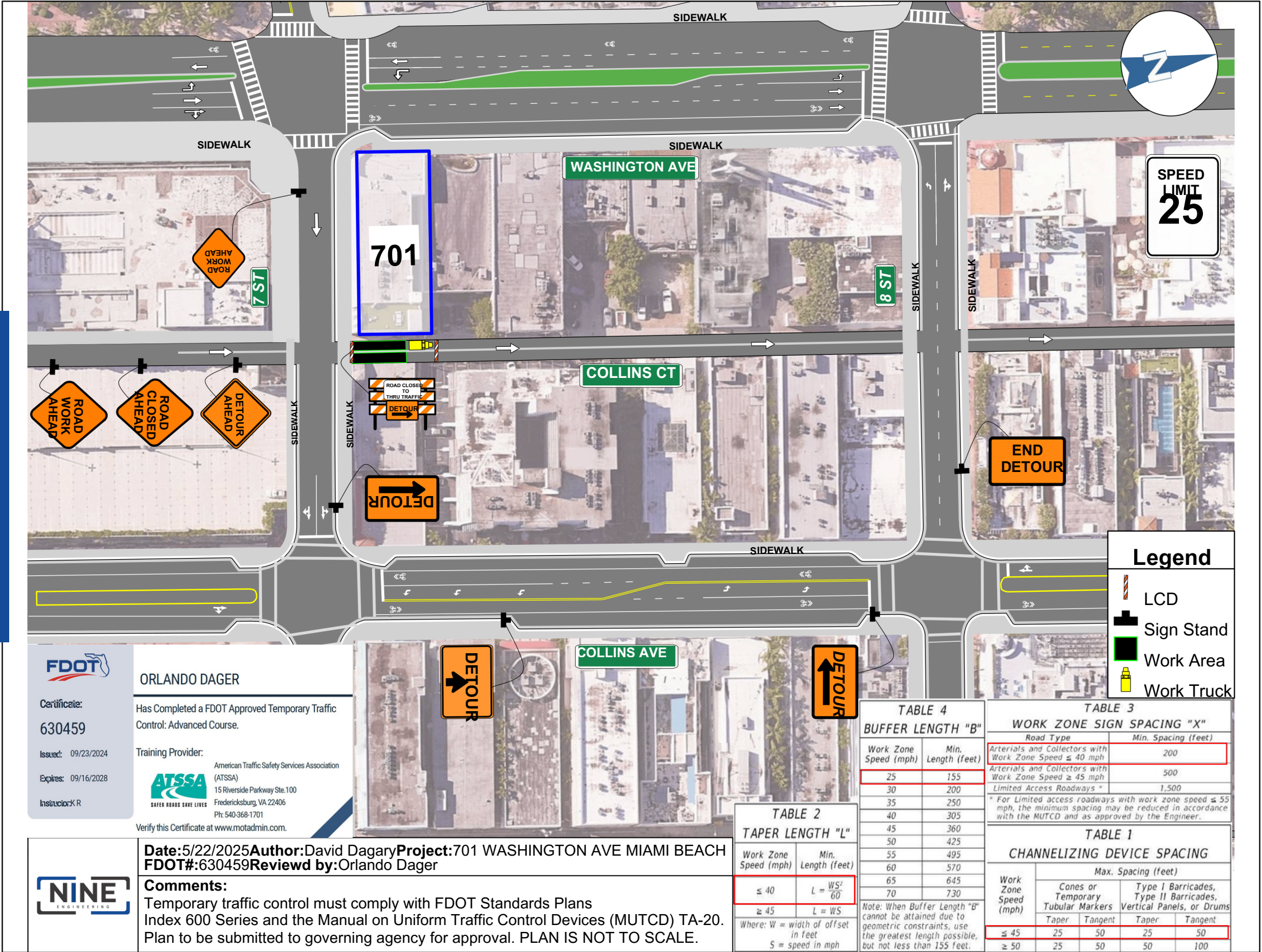
* For Limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.

DATE: 06/05/2025 **AUTHOR:** David Dagary **PROJECT:** NW 8 ST & NW 1 AVE MIAMI **FDOT#:** 630459 **REVIEWED BY:** Orlando Dager

COMMENTS:
Temporary traffic control must comply with FDOT Standards Plans Index 600 Series 102-604, 613, 660 and the Manual on Uniform Traffic Control Devices (MUTCD).
Plan to be submitted to governing agency for approval. PLAN IS NOT TO SCALE.

NINE

MOT – Detour





Final Notes

MOT is not just about managing traffic—it's about ensuring safety, reducing risk, and maintaining project momentum. At Nine Engineering, our traffic control solutions are thoughtfully engineered to meet regulations, protect lives, and keep your worksite moving efficiently from start to finish.

Smart planning. Safe execution. That's the Nine Engineering standard.

Certifications & Licensing



ISO 9001 is an international standard for Quality Management Systems (QMS). It specifies requirements for organizations to demonstrate their ability to consistently provide products and services that meet customer and regulatory requirements



ISO 14001 is an internationally recognized standard for environmental management systems (EMS) that provides a framework for organizations to improve their environmental performance and comply with regulations.



ISO 45001 is an international standard that specifies requirements for an occupational health and safety (OH&S) management system. It provides a framework for organizations to manage risks and improve OH&S performance.



Lead Engineer
Florida, Texas & Georgia



Senior Engineer
Florida & Texas



Lead Structural Engineer
Florida



Contact

Orlando Dager
Director of Operations

Orlando.Dager@9eng.com

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8751 W. Broward BLVD #505
Plantation, FL 33324

For Sales:

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Visit us at:

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