

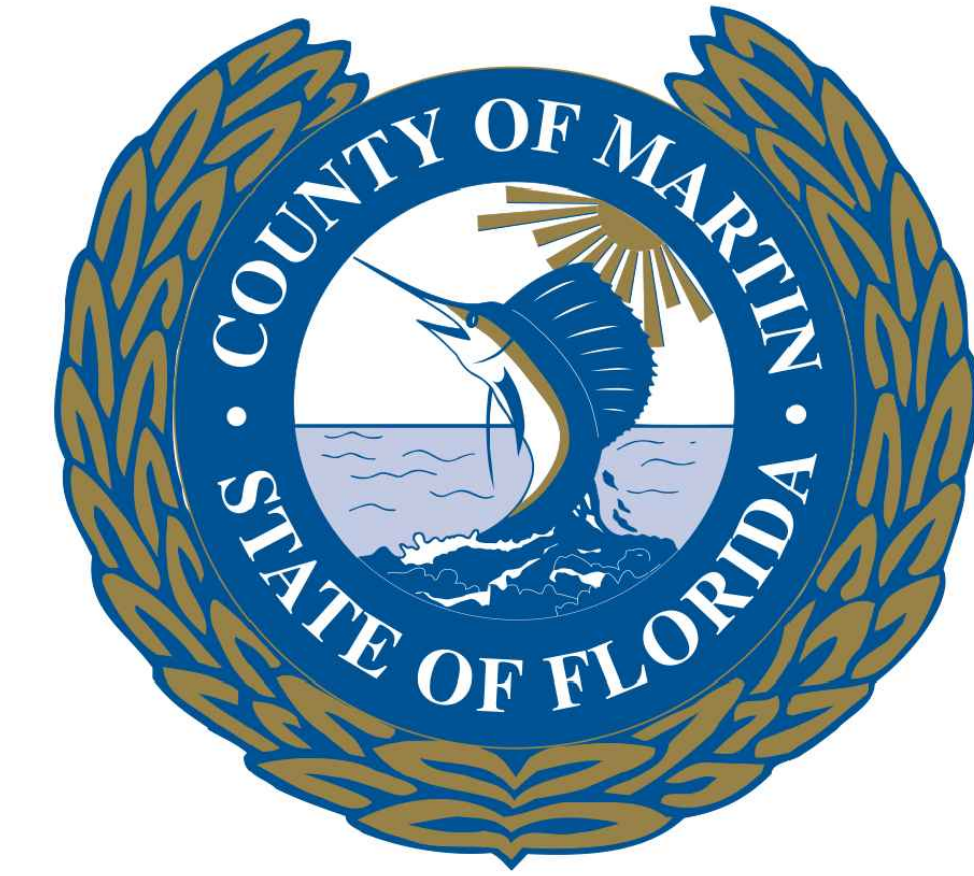
# PORT SALERNO - NEW MONROVIA

## PHASE I (WATER MAIN EXTENSION)

SE SALERNO RD., SE GROUPE AVE., SE FLOUNDER AVE.,  
SE EBBTIDE AVE., SE COMMERCE AVE., SE DRIFTWOOD AVE.,  
SE CHANNEL DR., SE BLUE HERON DR., SE RAILWAY AVE.

## CONSTRUCTION DRAWINGS

FOR  
MARTIN COUNTY UTILITIES  
MARTIN COUNTY, FLORIDA



**Bowman**  
CONSULTING  
PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030  
BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462

### BOARD OF COUNTY COMMISSIONERS

DOUG SMITH	DISTRICT 1
STACEY HETHERINGTON	DISTRICT 2
HAROLD JENKINS	DISTRICT 3
SARAH HEARD	DISTRICT 4
EDWARD V. CIAMPI	DISTRICT 5

### OWNER/APPLICANT:

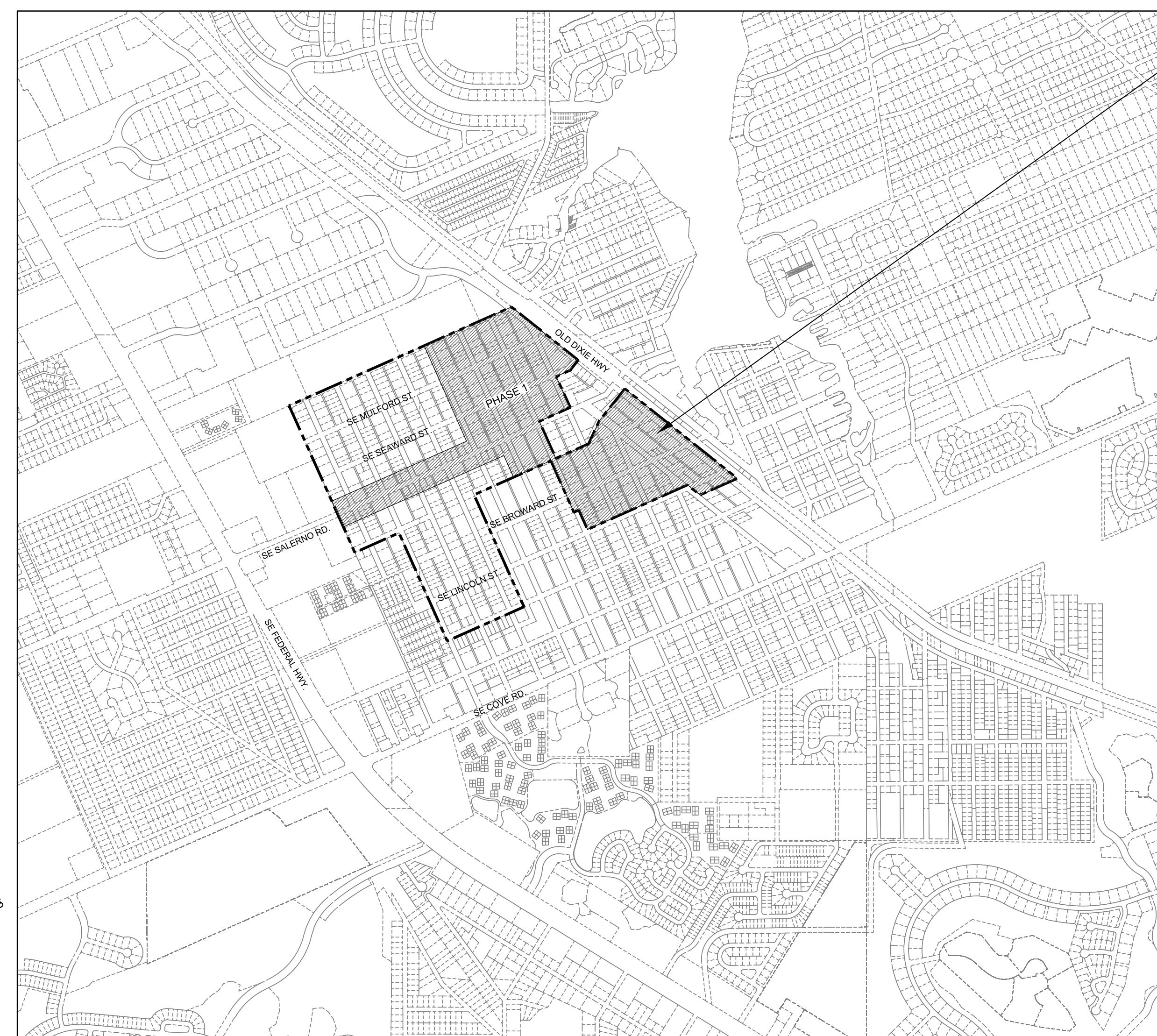
TARYN KRYZDA - COUNTY ADMINISTRATOR  
SAM AMERSON, PE - UTILITIES & SOLID WASTE DIRECTOR  
MARTIN COUNTY UTILITIES & SOLID WASTE  
3473 SE WILLOUGHBY BOULEVARD  
STUART, FL 34994

### CONSULTANTS

#### CIVIL ENGINEER:

BOWMAN CONSULTING GROUP  
301 SE OCEAN BOULEVARD, SUITE 301  
STUART, FL 34994  
(772) 283-1413  
OCTAVIO 'OATS' REIS, P.E.

A PORTION OF SALERNO PLAT



SITE LOCATION MAP  
1" = 1000'

SITE

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C0	COVER SHEET
C200	SHEET INDEX
C301 - C311	UTILITY PLANS
D100	CONSTRUCTION DETAILS
D101	NOTES

### NOTES:

- ALL ELEVATIONS SHOWN HEREIN REFERENCE DATUM NAVD, 1988.
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PORT SALERNO - NEW MONROVIA  
PHASE I - (WATER MAIN EXTENSION)

FLORIDA  
MARTIN COUNTY  
COVER SHEET

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN JC CHKD

SCALE: N/A

JOB No. 010513-018

DATE 6/19/2020

FILE No. 010513-018-COV

SHEET C0



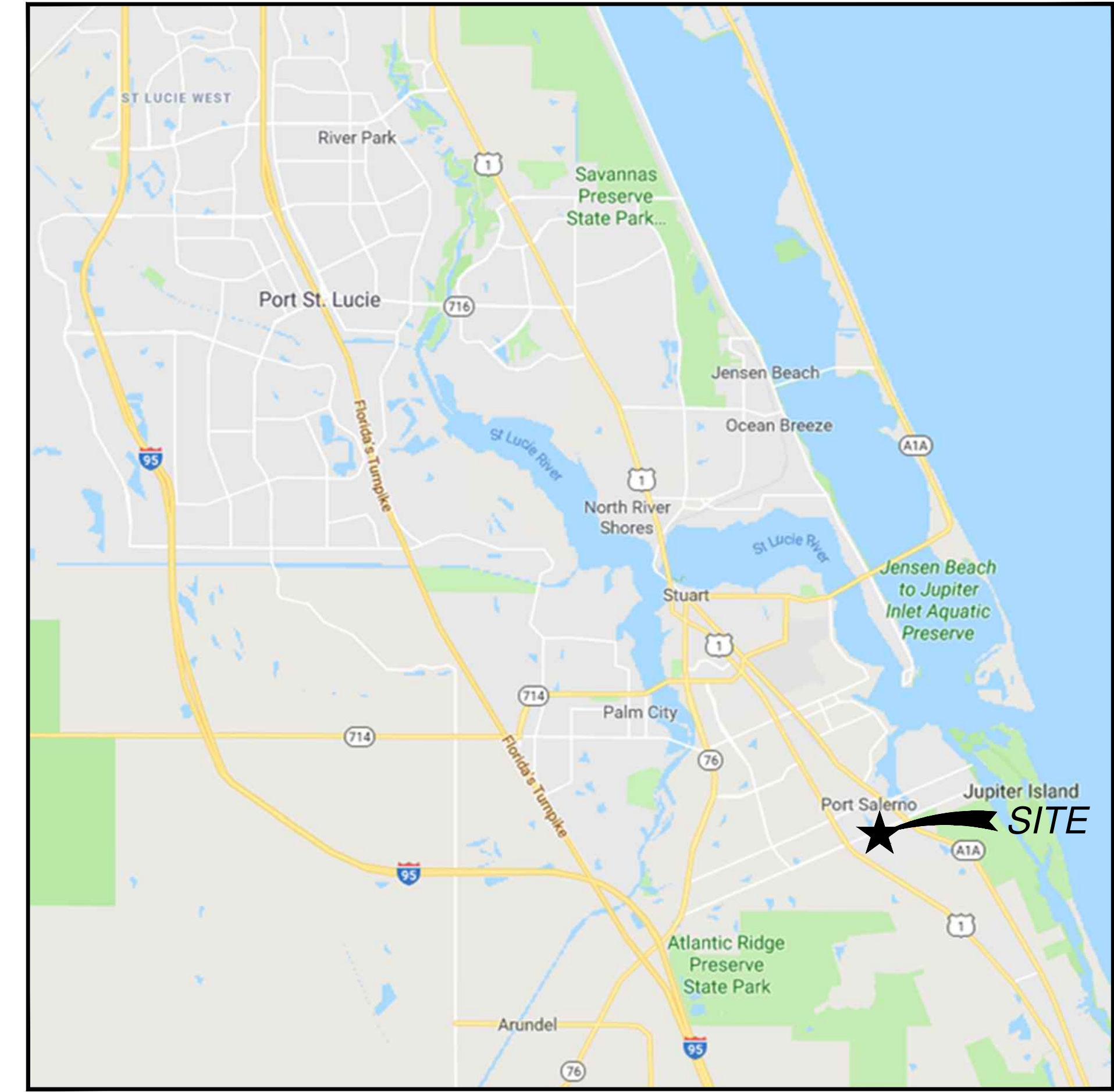
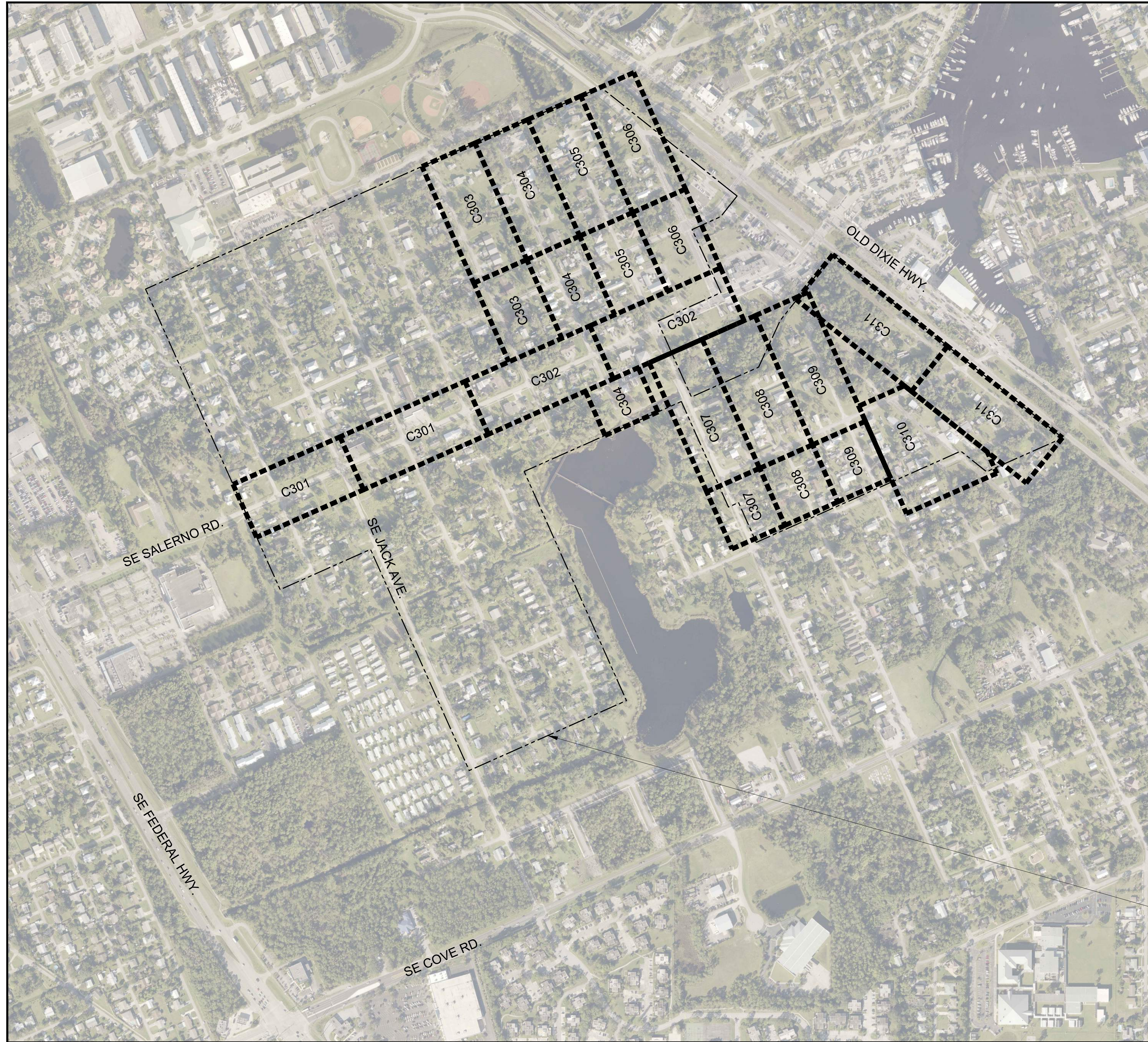
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100% DESIGN

COVER SHEET



**VICINITY MAP**  
N.T.S.

**OVERALL PROJECT BOUNDARY**

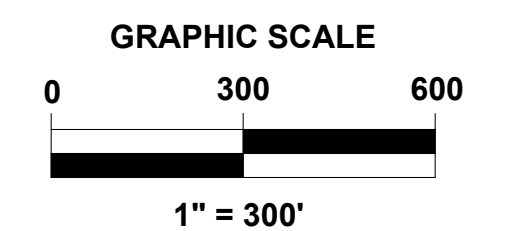
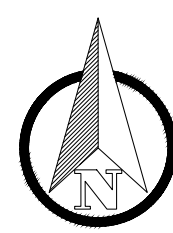


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**SHEET INDEX**

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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
MARTIN COUNTY  
FLORIDA  
**SHEET INDEX**

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC	CB
DESIGN	DRAWN
JC	CHKD

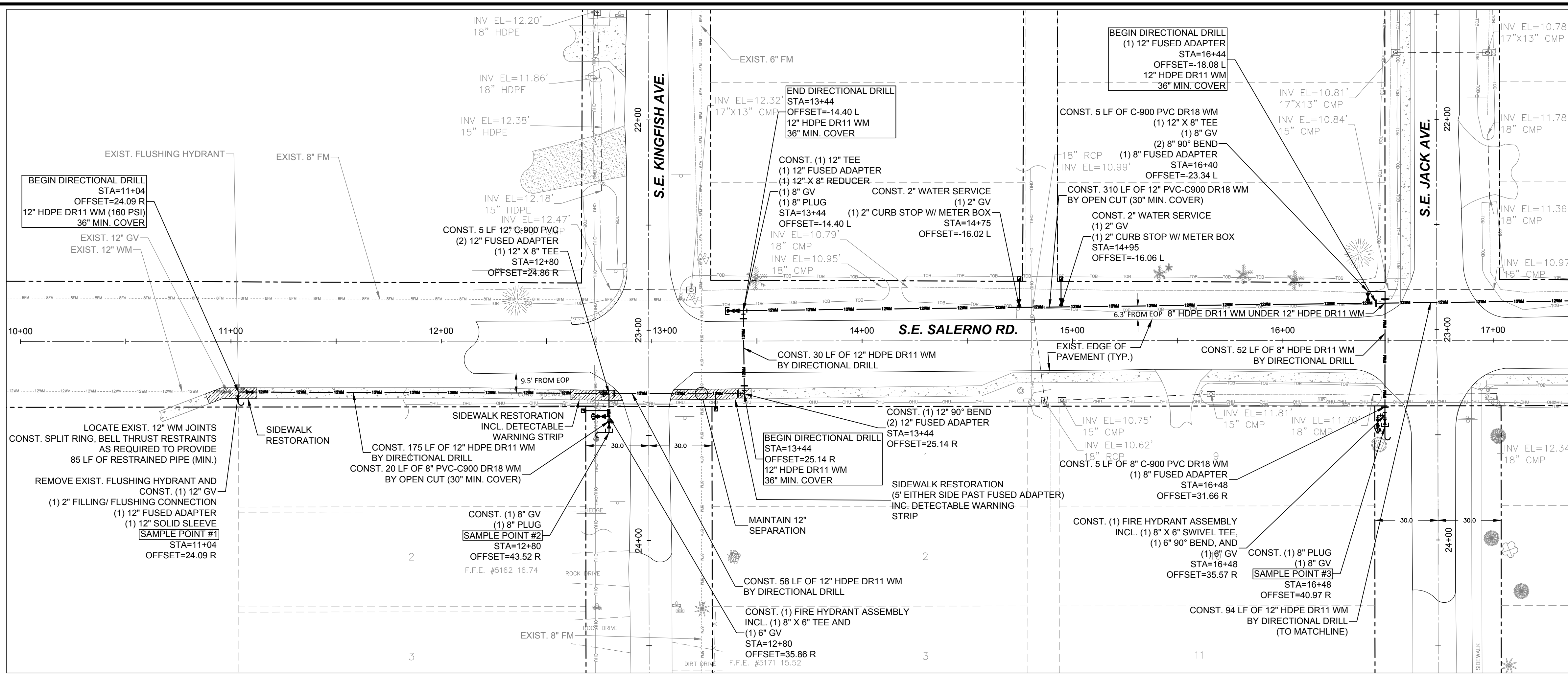
SCALE: 1" = 300'

JOB No. 010513-018

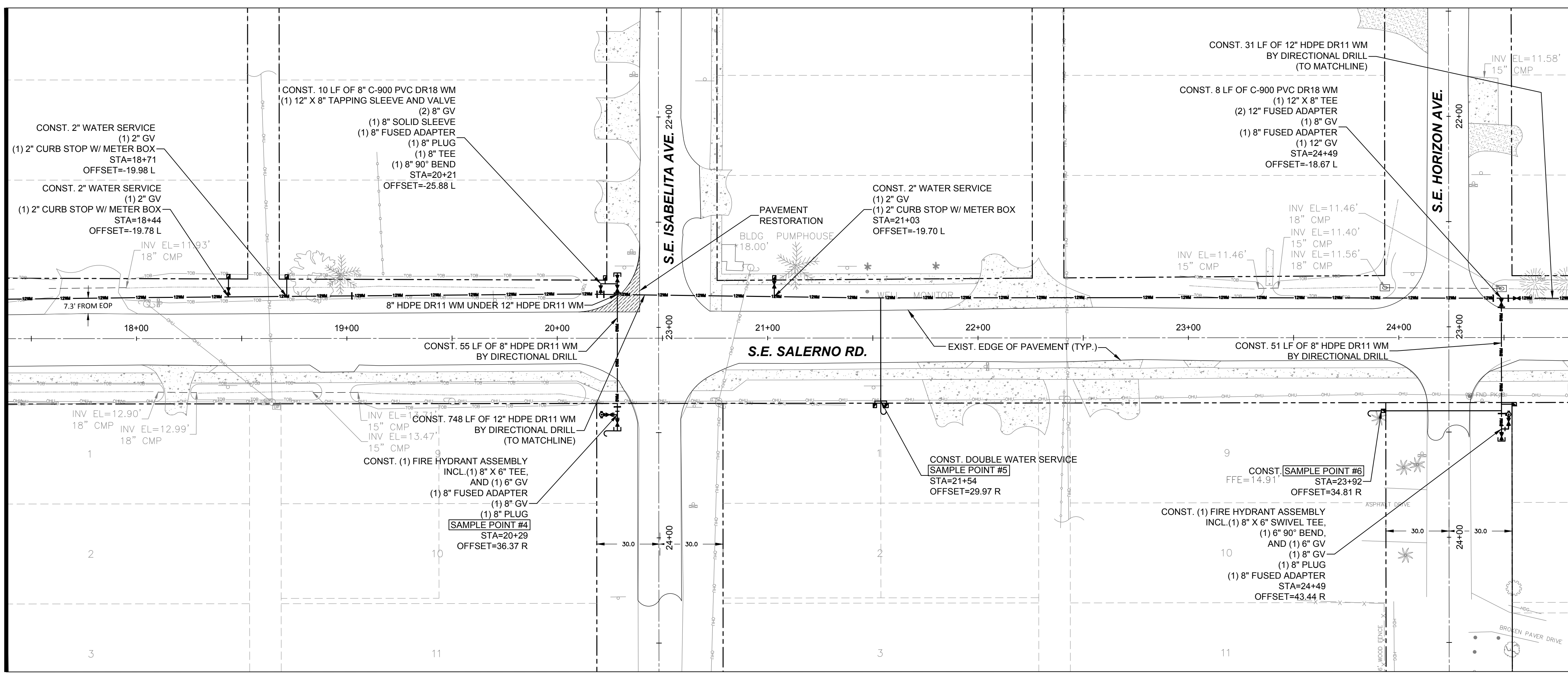
DATE 6/19/2020

FILE No. 010513-018-INDEX

**C200**



MATCHLINE A-A

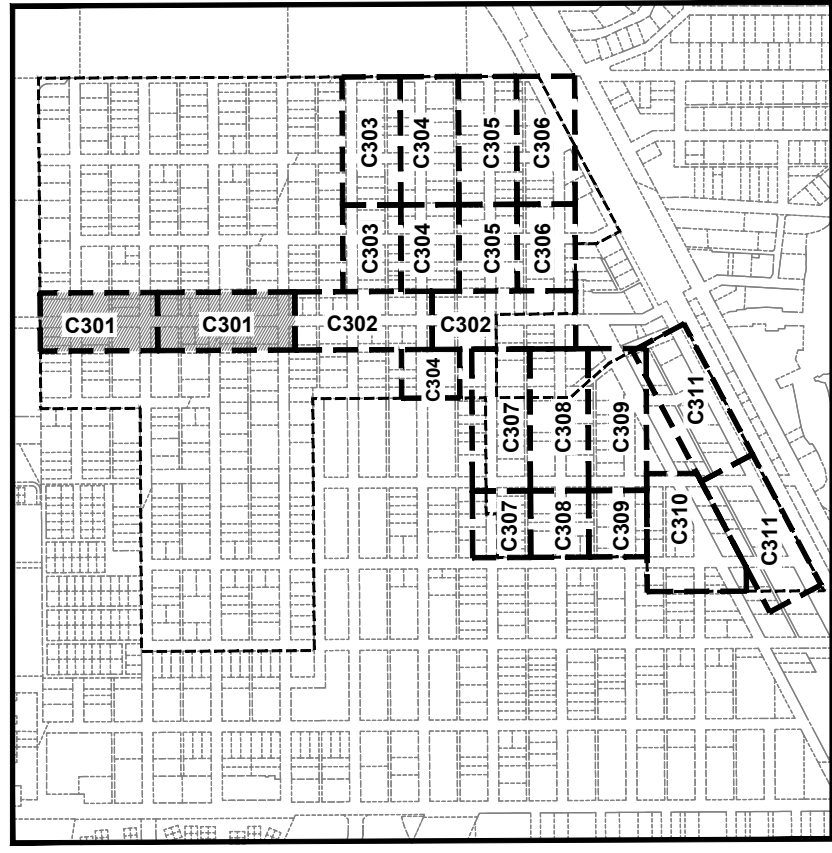


MATCHLINE A-A

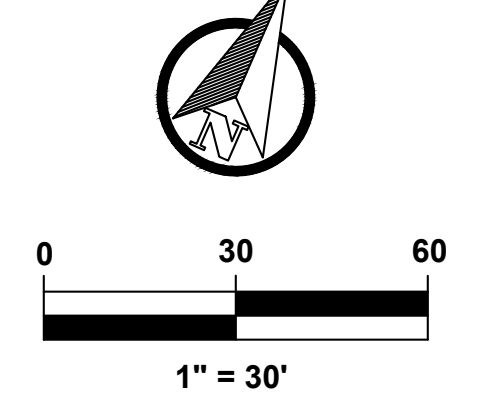
SEE SHEET C302 FOR CONTINUATION

- LEGEND**
- RIGHT OF WAY LINE
  - PROPERTY LINE
  - EXISTING STORM PIPE
  - EXISTING EDGE OF PAVEMENT
  - WM --- EXISTING WATER MAIN
  - WM --- PROPOSED WATER MAIN
  - EXISTING UTILITY VALVE
  - PROPOSED UTILITY VALVE
  - EXISTING REDUCER
  - PROPOSED REDUCER
  - PROPOSED UTILITY PLUG
  - EXISTING FIRE HYDRANT
  - PROPOSED FIRE HYDRANT
  - PROPOSED SAMPLE POINT
  - EXISTING SANITARY SERVICE
  - FM --- EXISTING FORCE MAIN
  - BT --- EXISTING BURIED TELEPHONE
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  - OH(CATV) --- EXISTING OVERHEAD CABLE TV
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  - EXISTING MAIL BOX
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**KEY SHEET**  
N.T.S.



**UTILITY PLAN**

Bowman

CONSULTING

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030  
BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30482

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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
**UTILITY PLAN**  
S.E. SALERNO RD. - STA 10+00 TO 24+82

FLORIDA  
MARTIN COUNTY

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
JC CHKD	

SCALE: 1" = 30'

JOB No. 010513-018

DATE 6/19/2020

FILE No. 010513-018-PGD

SHEET C301



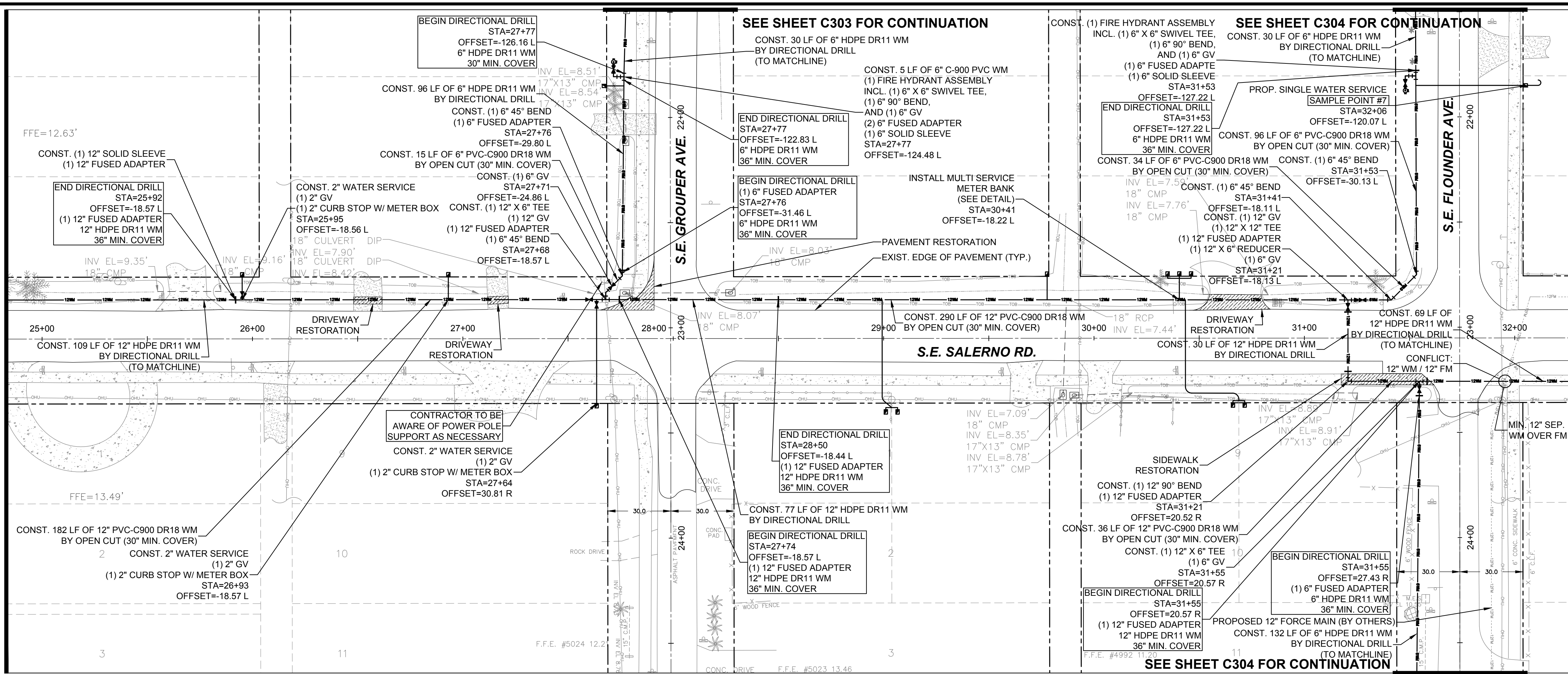
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100% DESIGN

SEE SHEET C301 FOR CONTINUATION

MATCHLINE B-B



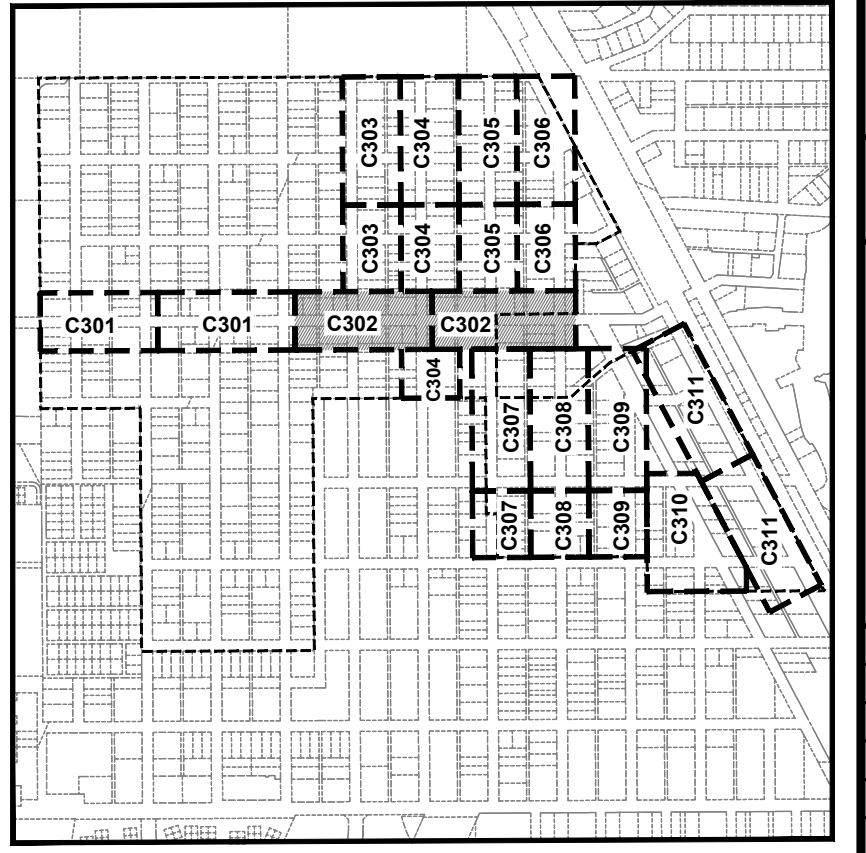
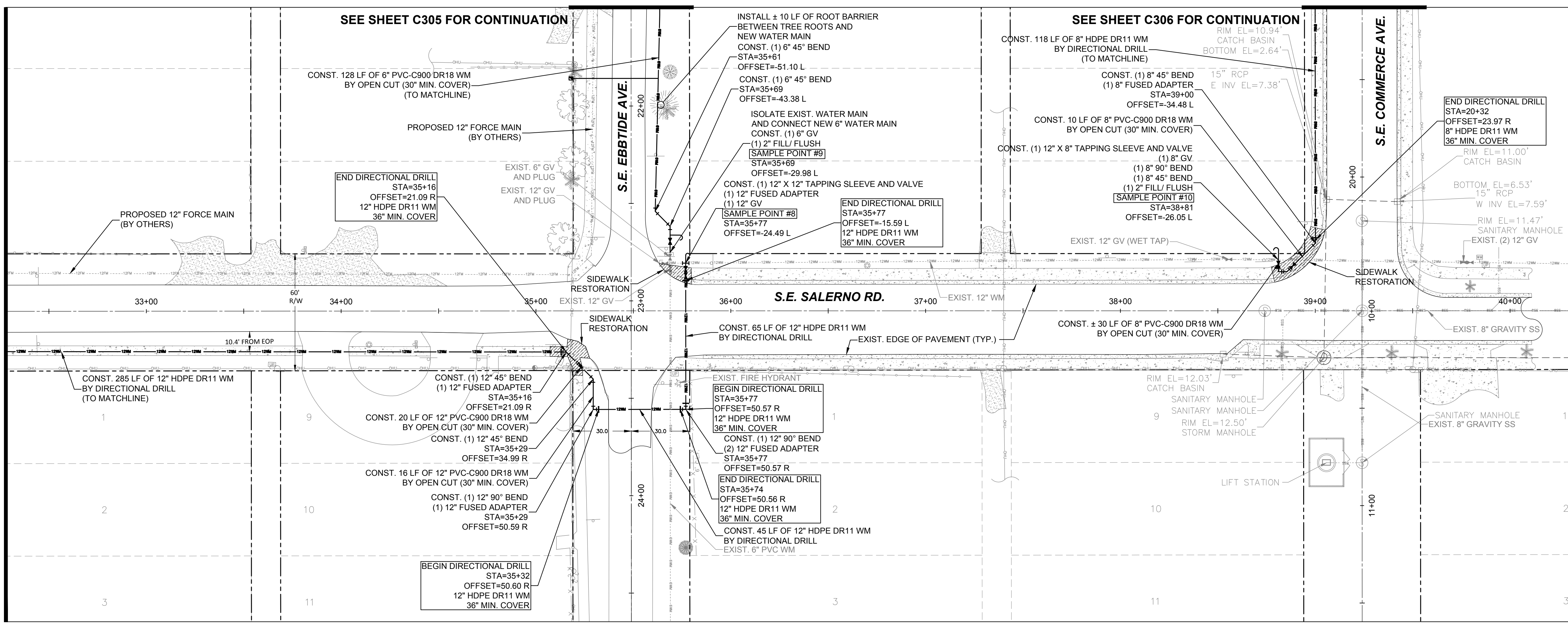
LEGEND

- RIGHT OF WAY LINE
- PROPERTY LINE
- EXISTING STORM PIPE
- EXISTING EDGE OF PAVEMENT
- WM EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- EXISTING UTILITY VALVE
- PROPOSED UTILITY VALVE
- EXISTING REDUCER
- PROPOSED REDUCER
- PROPOSED UTILITY PLUG
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
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- EXISTING FORCE MAIN
- EXISTING BURIED TELEPHONE
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- PROPOSED DOUBLE WATER SERVICE (1" W/ (2) 5/8" METERS)
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- EXISTING WELL
- EXISTING CLEAN OUT
- EXISTING WATER SERVICE

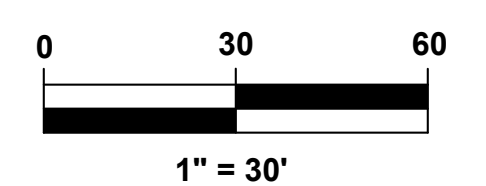
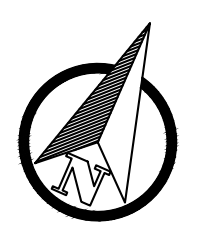
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MATCHLINE B-B



KEY SHEET N.T.S.



UTILITY PLAN

**Bowman**  
CONSULTING

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030  
BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30492

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PORT SALERNO - NEW MONROVIA  
PHASE I - (WATER MAIN EXTENSION)  
UTILITY PLAN  
S.E. SALERNO RD. - STA 24+72 TO 28+00  
FLORIDA  
MARTIN COUNTY

PROJECT NO 010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO. 75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
JC	CHKD

SCALE: 1" = 30'

JOB No. 010513-018

DATE 6/19/2020

FILE No. 010513-018-PGD

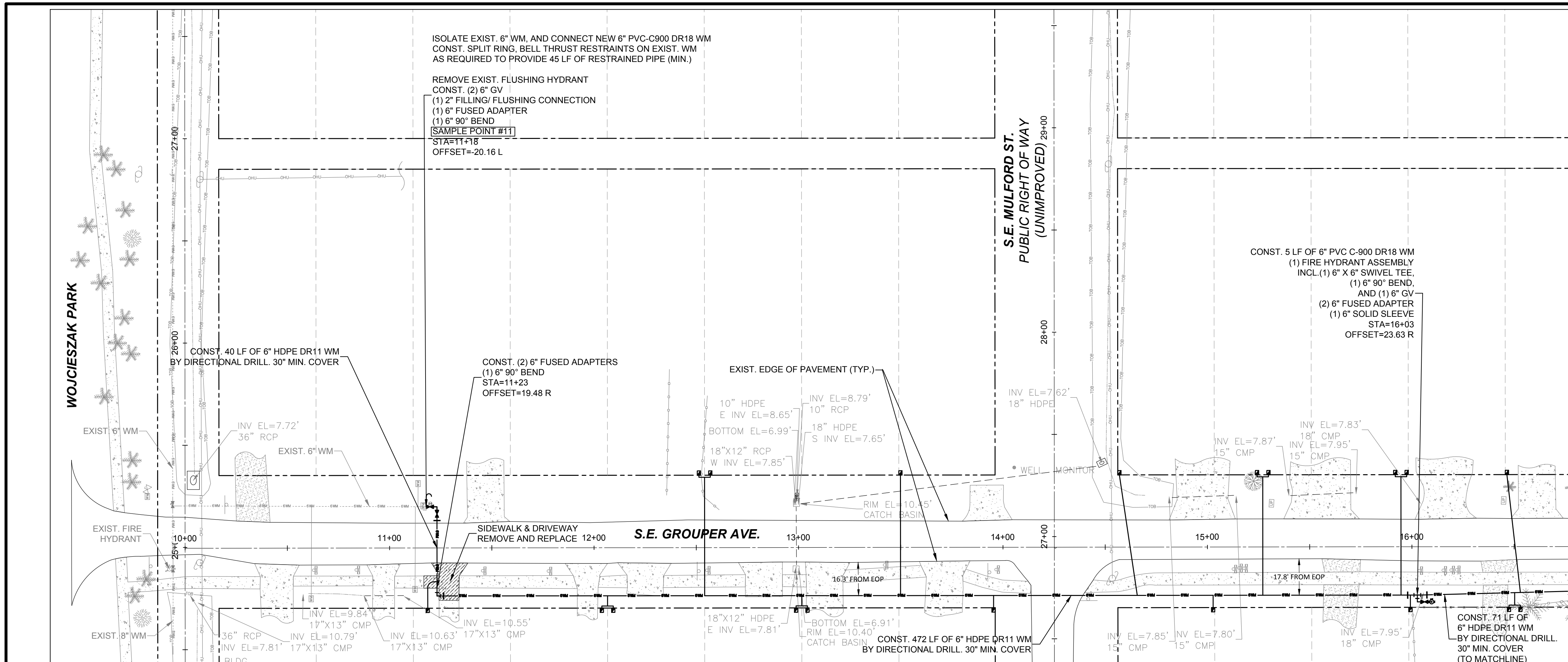
SHEET **C302**

100% DESIGN

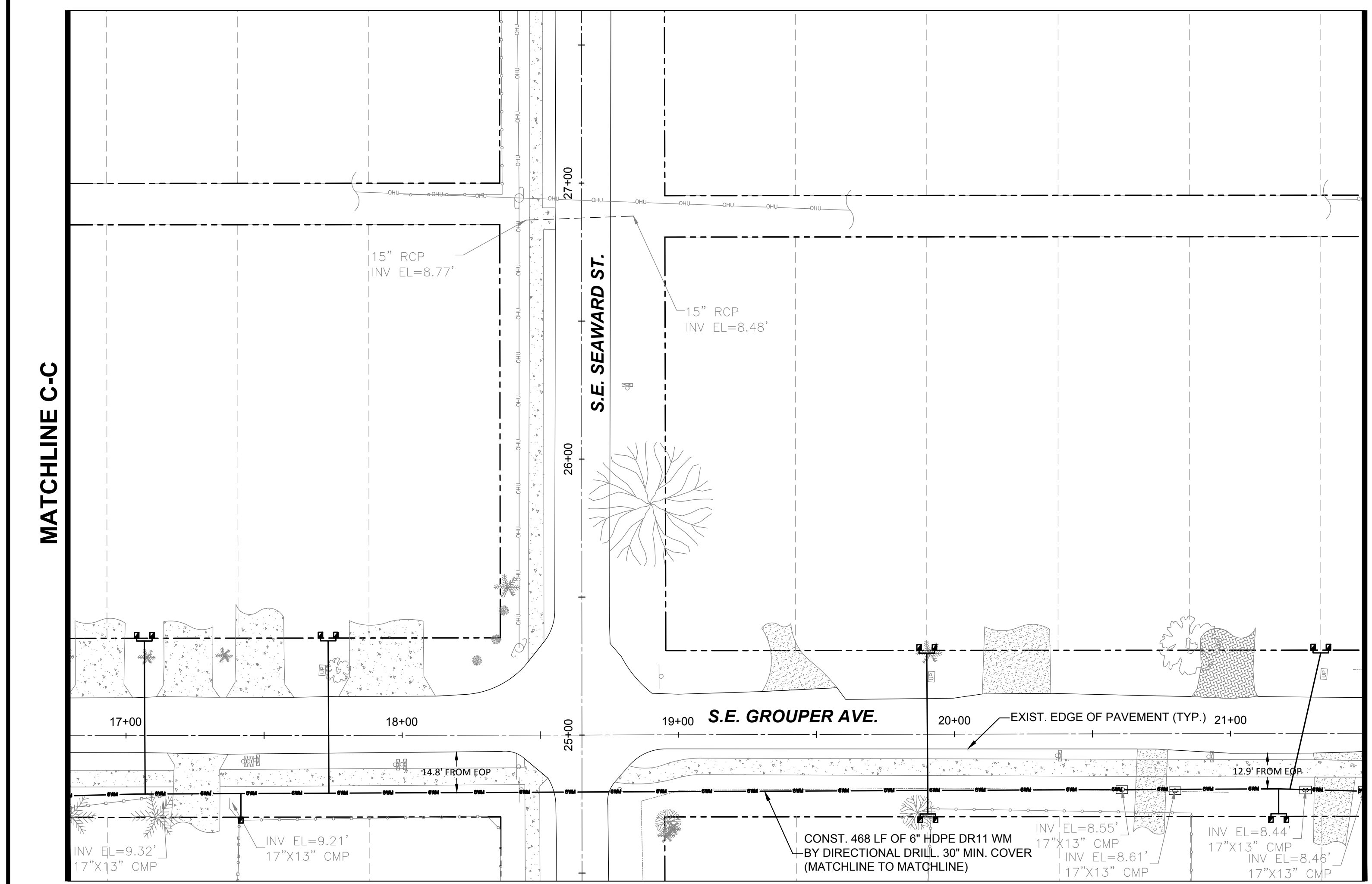
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MATCHLINE C-C



SEE SHEET C302 FOR CONTINUATION

MATCHLINE C-C

**811** KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG  
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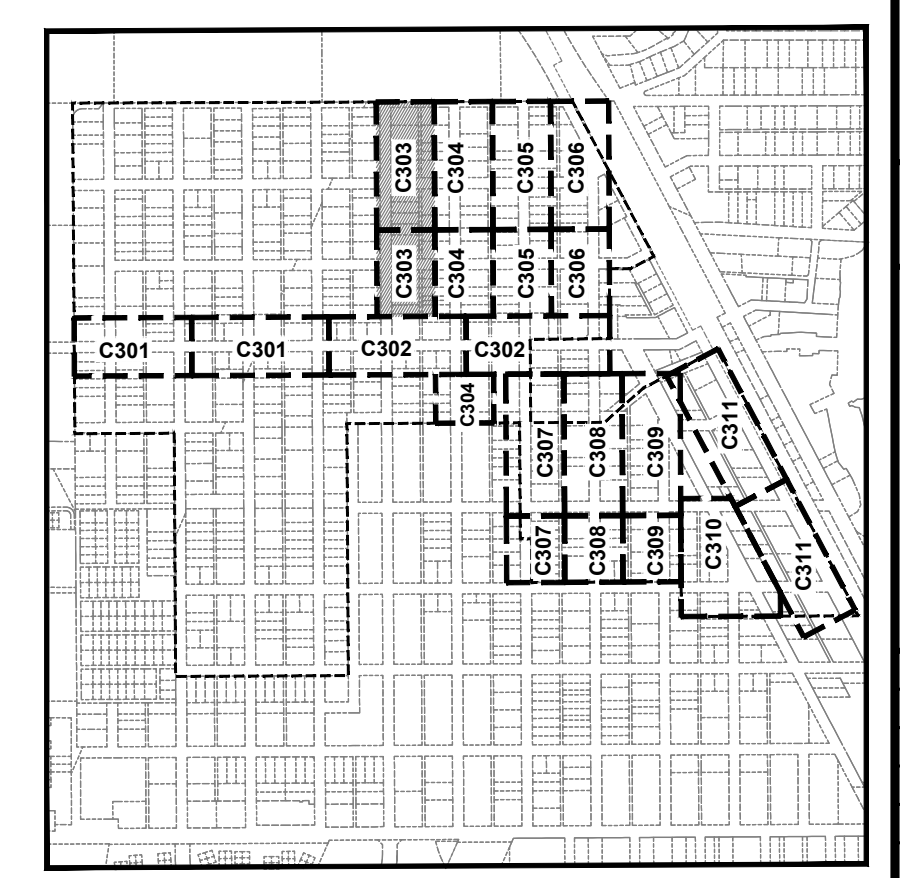
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**100% DESIGN**

**LEGEND**

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- WM --- EXISTING WATER MAIN
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**KEY SHEET**  
 N.T.S.

1" = 30'

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**PORT SALERNO - NEW MONROVIA**  
 PHASE I - (WATER MAIN EXTENSION)  
 UTILITY PLAN  
 S.E. GROUPER AVE. - STA 10+00 TO 21+50  
 FLORIDA  
 MARTIN COUNTY

---

PROJECT NO  
 010513-01-018

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JEREMY A. COVEY, P.E.  
 FL. REGISTRATION NO.  
 75472

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PLAN STATUS

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DATE	DESCRIPTION
JC DESIGN	CB DRAWN
	JC CHKD

SCALE: 1" = 30'

JOB No. 010513-018

DATE 6/19/2020

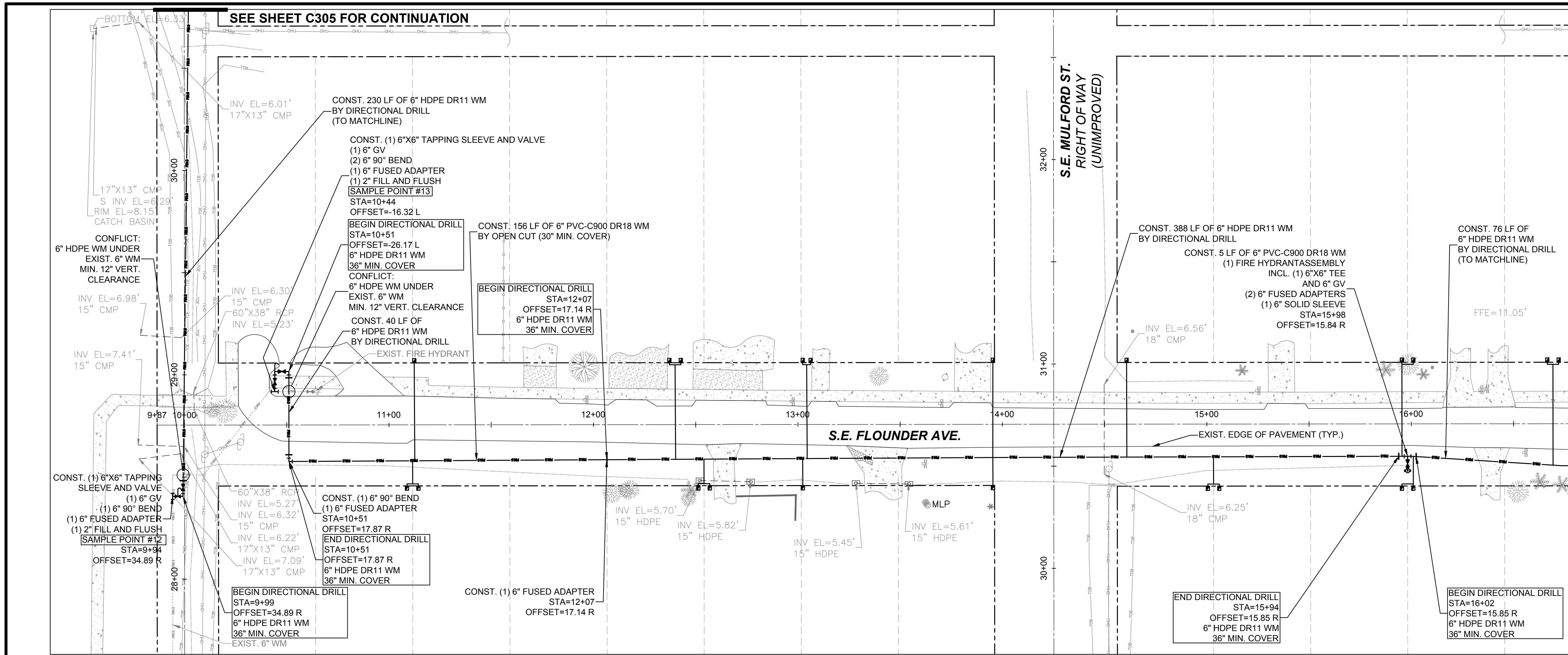
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**UTILITY PLAN**

**C303**

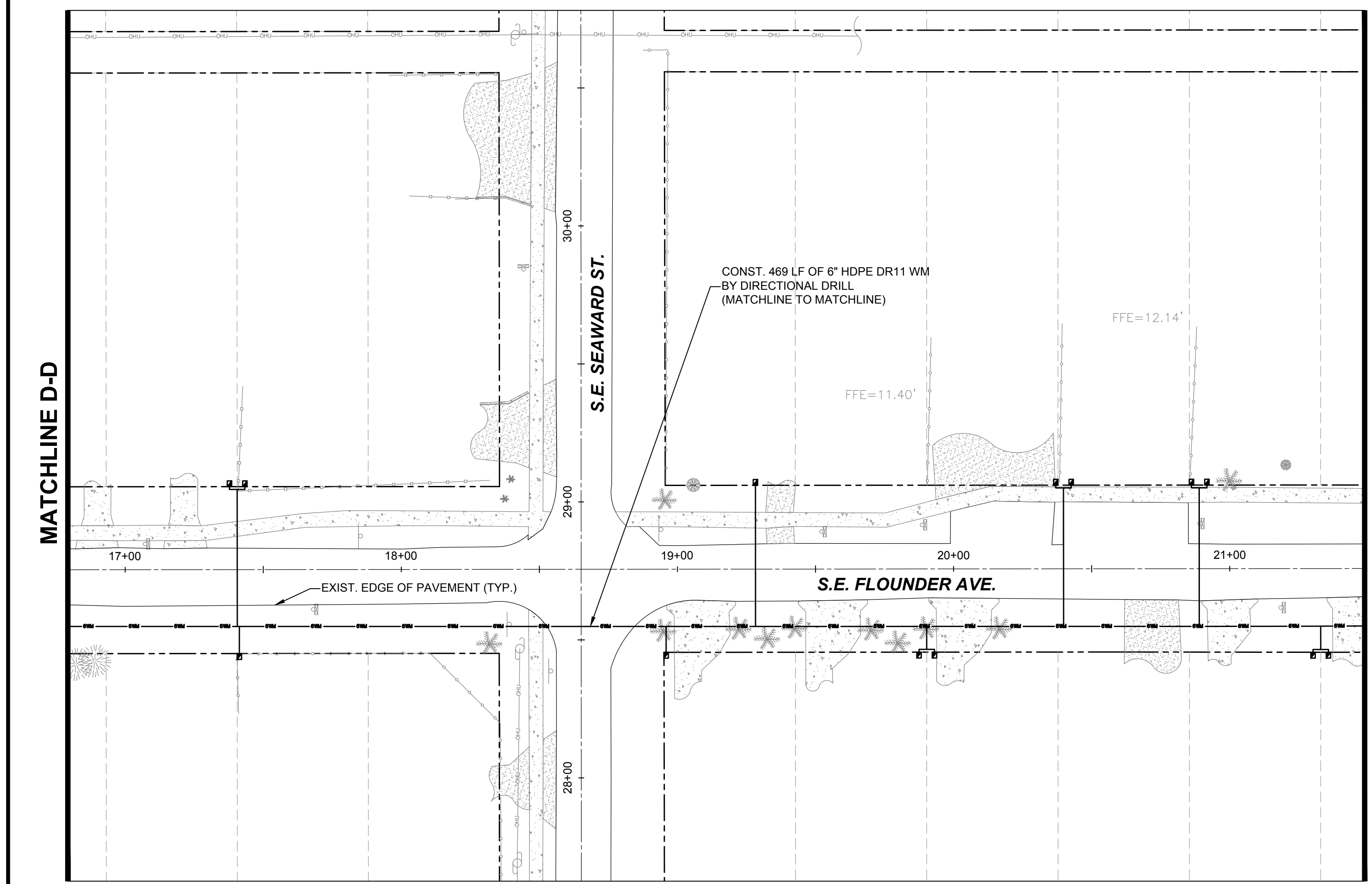
SHEET



MATCHLINE D-D

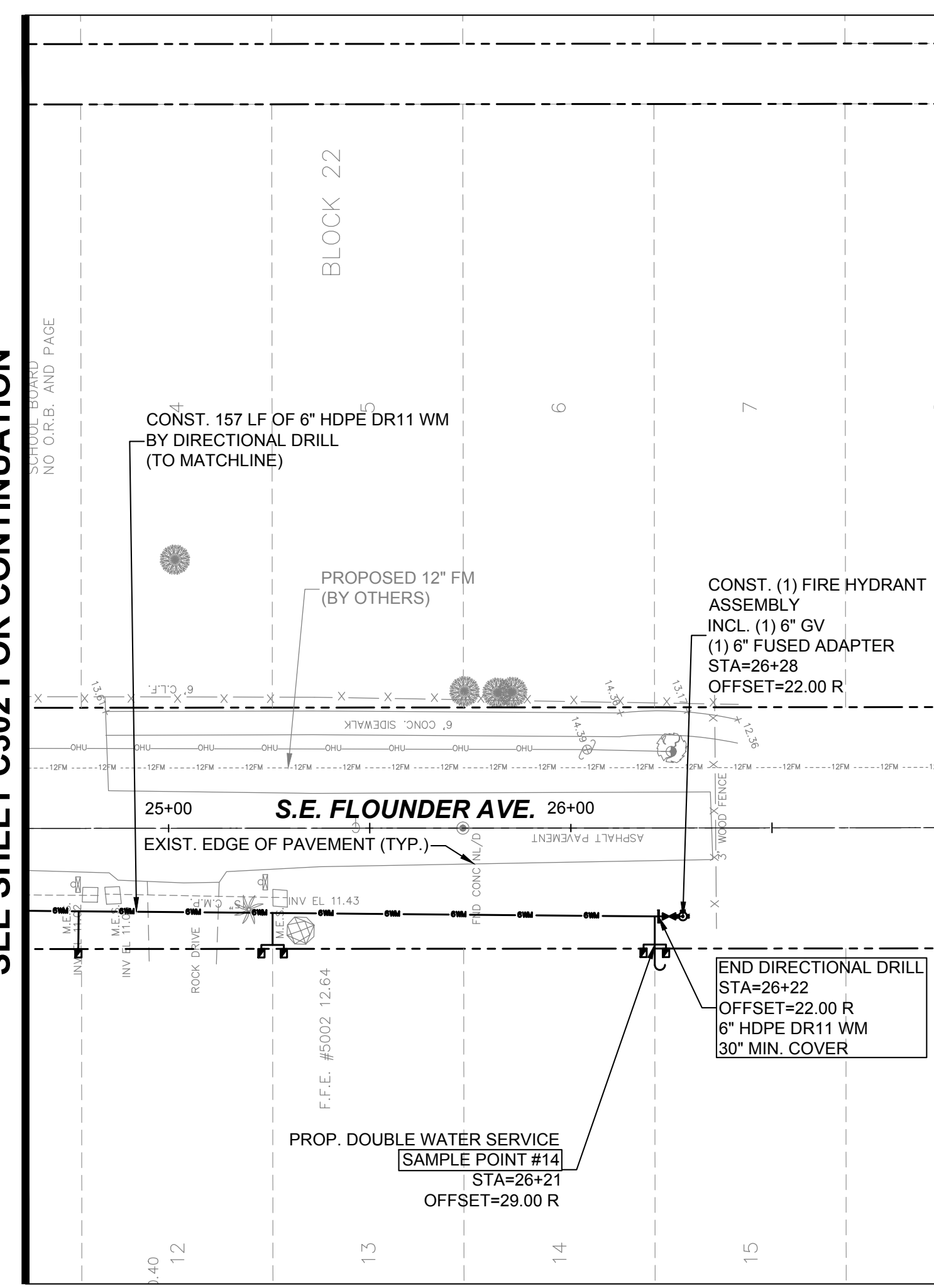
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MATCHLINE D-D

SEE SHEET C302 FOR CONTINUATION

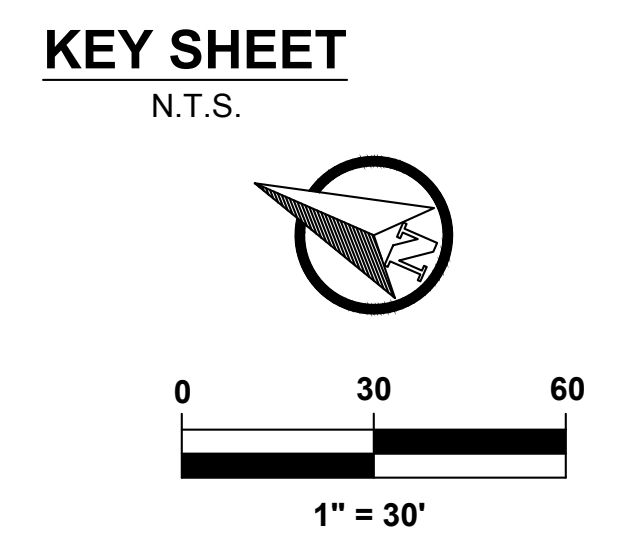
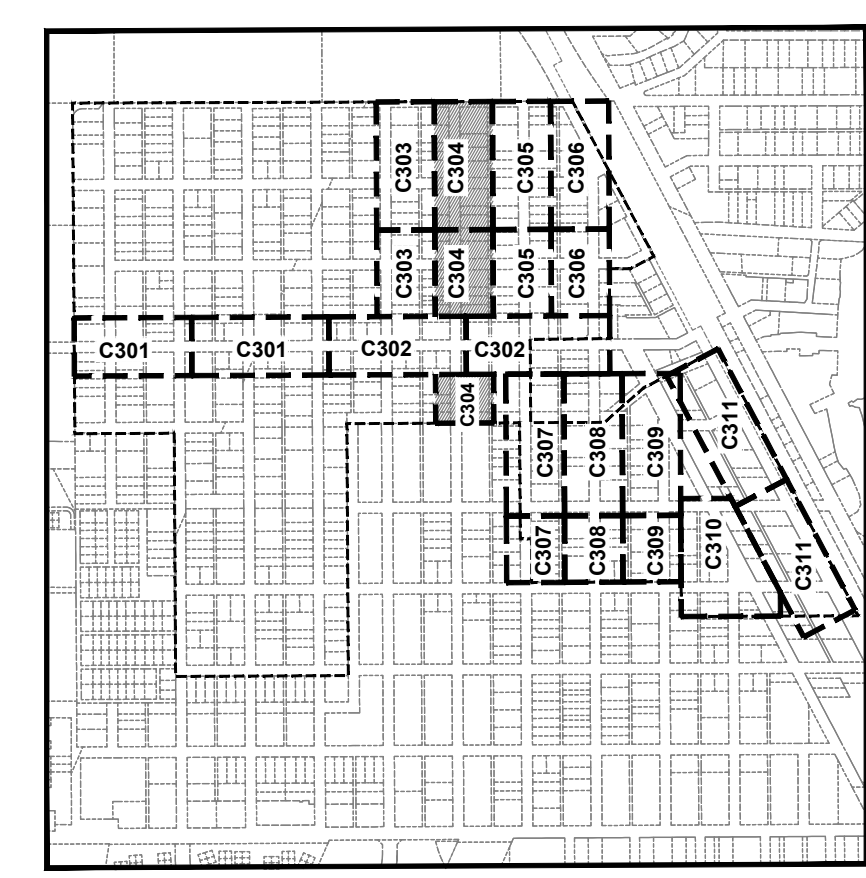


SEE SHEET C302 FOR CONTINUATION

**811** KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG  
 THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY BOWMAN CONSULTING GROUP, LTD. SHALL BE WITHOUT LIABILITY TO BOWMAN CONSULTING GROUP, LTD.

**NOTE:**  
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**100% DESIGN**



**UTILITY PLAN**

**Bowman CONSULTING**  
 PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030  
 BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30482

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 Fax: (772) 220-7883  
 www.bowmanconsulting.com  
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---

**PORT SALERNO - NEW MONROVIA**  
 PHASE I - (WATER MAIN EXTENSION)  
 UTILITY PLAN  
 S.E. FLOUNDER AVE. - STA 10+00 TO 26+50  
 FLORIDA  
 MARTIN COUNTY

---

PROJECT NO  
 010513-01-018

---

JEREMY A. COVEY, P.E.  
 FL REGISTRATION NO.  
 75472

---

PLAN STATUS

---

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
	JC CHKD

SCALE: 1" = 30'

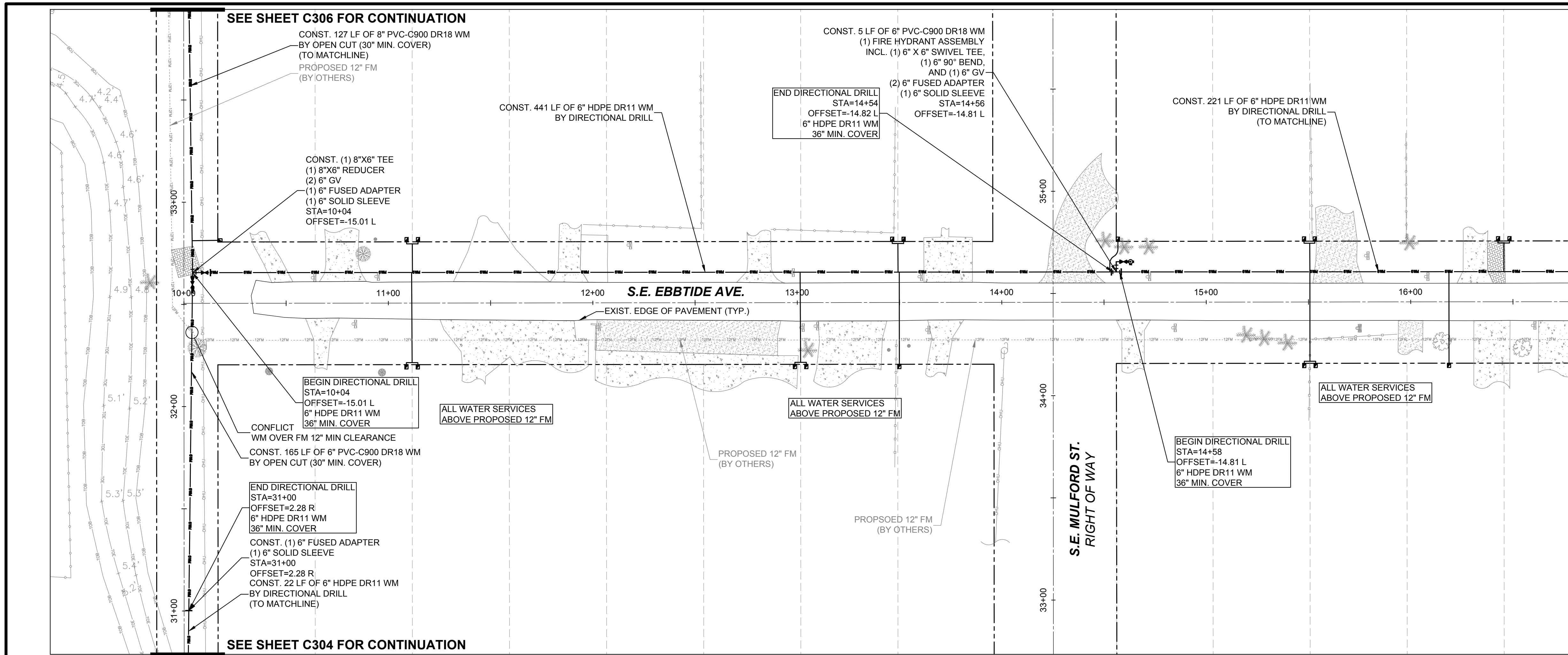
JOB No. 010513-018

DATE 6/19/2020

FILE No. 010513-018-PGD

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SHEET **C304**

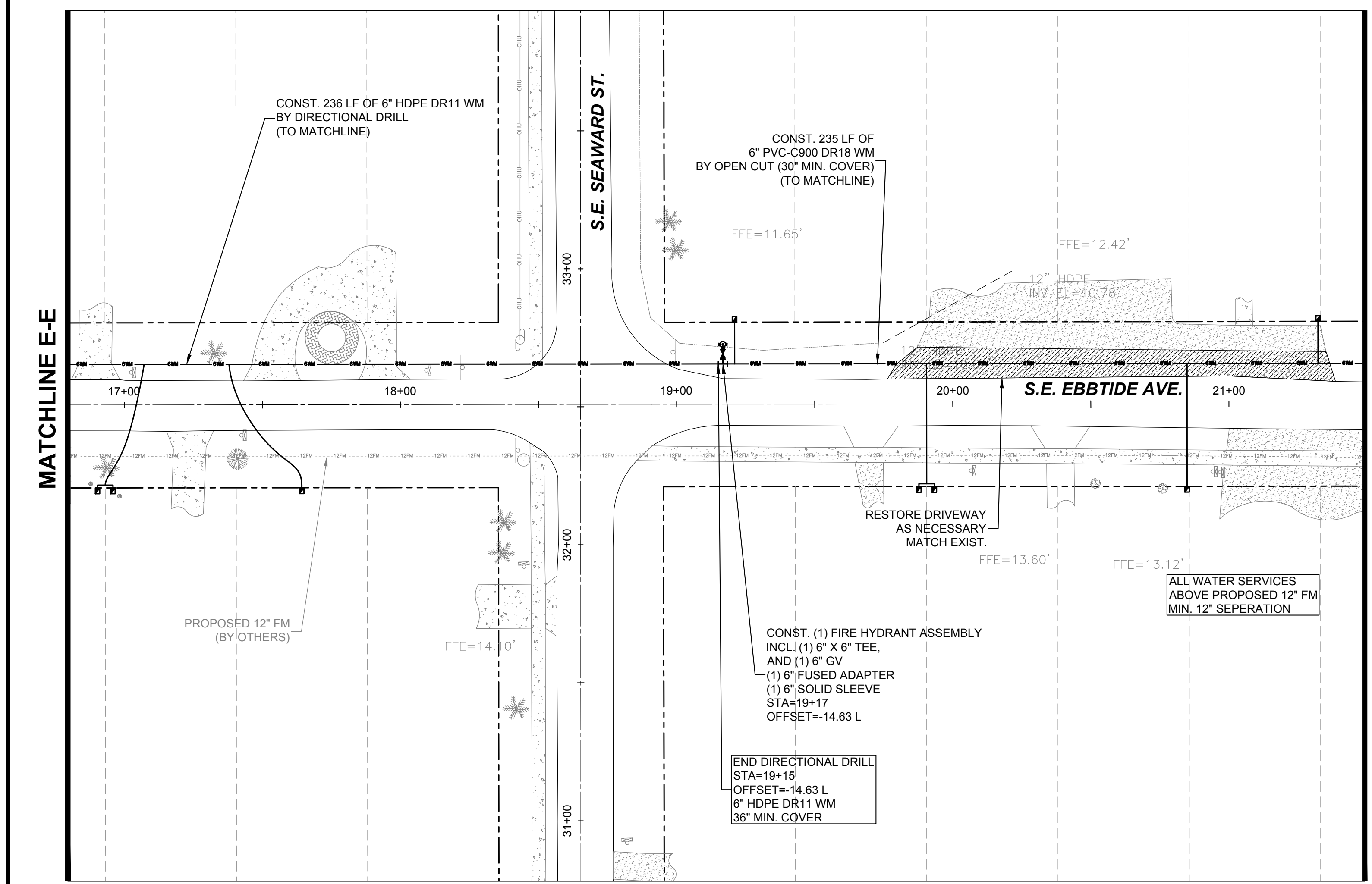


MATCHLINE E-E

**LEGEND**

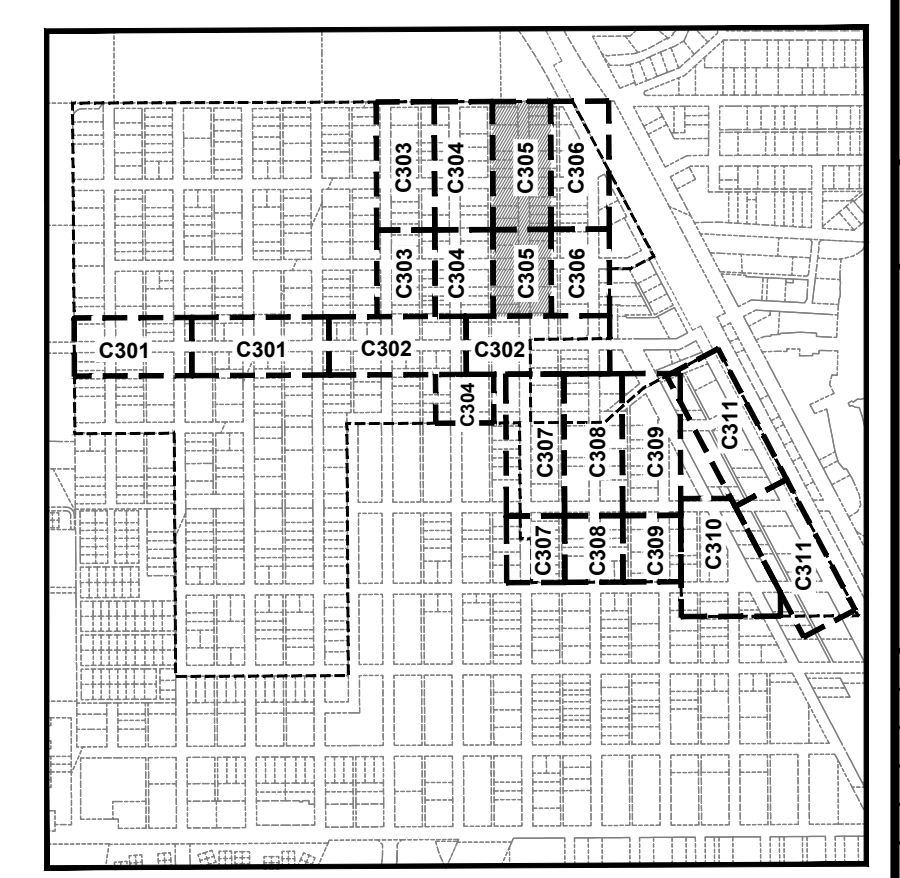
- RIGHT OF WAY LINE
- PROPERTY LINE
- EXISTING STORM PIPE
- EXISTING EDGE OF PAVEMENT
- WM --- EXISTING WATER MAIN
- WM --- PROPOSED WATER MAIN
- EXISTING UTILITY VALVE
- PROPOSED UTILITY VALVE
- EXISTING REDUCER
- PROPOSED REDUCER
- PROPOSED UTILITY PLUG
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED SAMPLE POINT
- EXISTING SANITARY SERVICE
- FM --- EXISTING FORCE MAIN
- BT --- EXISTING BURIED TELEPHONE
- OE --- EXISTING OVERHEAD ELECTRIC
- OH(CATV) --- EXISTING OVERHEAD CABLE TV
- EXISTING WOOD POWER POLE
- EXISTING MAIL BOX
- PROPOSED DOUBLE WATER SERVICE (1" W (2) 5/8" METERS)
- PROPOSED SINGLE WATER SERVICE (1" W (1) 5/8" METER)
- EXISTING SEPTIC TANK
- EXISTING WELL
- EXISTING CLEAN OUT
- EXISTING WATER SERVICE

- NOTES:**
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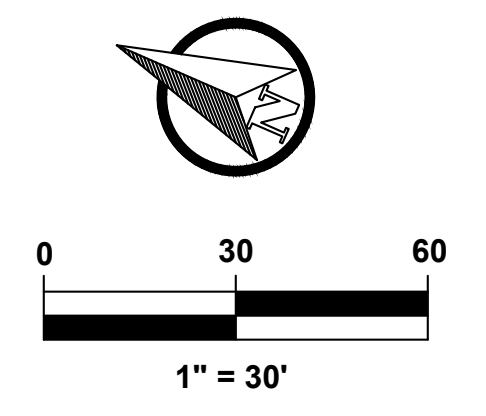


MATCHLINE E-E

SEE SHEET C302 FOR CONTINUATION



**KEY SHEET**  
N.T.S.



**NOTE:**  
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**100% DESIGN**

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CONSULTING

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030  
BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 39492

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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
UTILITY PLAN  
S.E. EBBTIDE AVE. - STA 10+00 TO 21+50  
FLORIDA  
MARTIN COUNTY

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
	JC CHKD

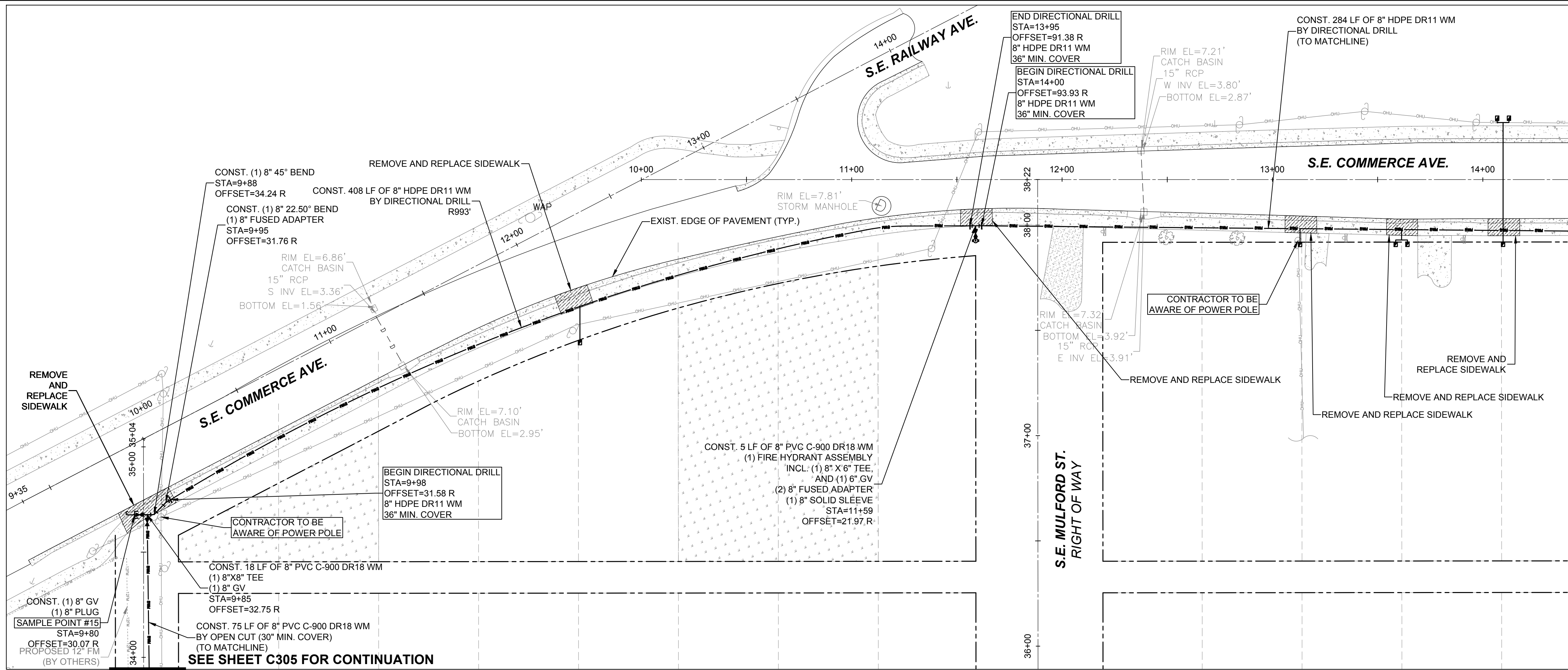
SCALE: 1" = 30'

JOB No. 010513-018

DATE 6/19/2020

FILE No. 010513-018-PGD

SHEET **C305**

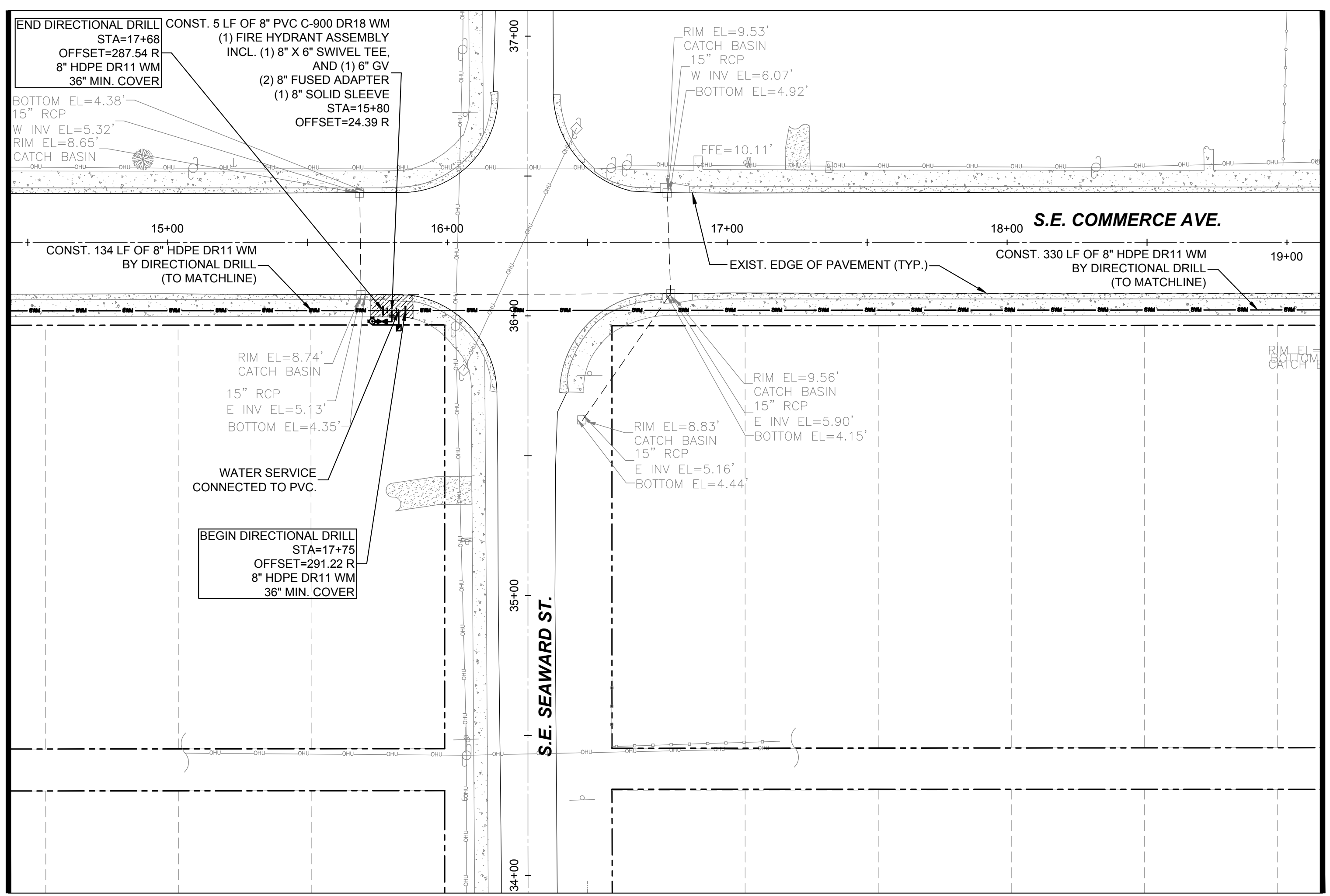


MATCHLINE F-F

**LEGEND**

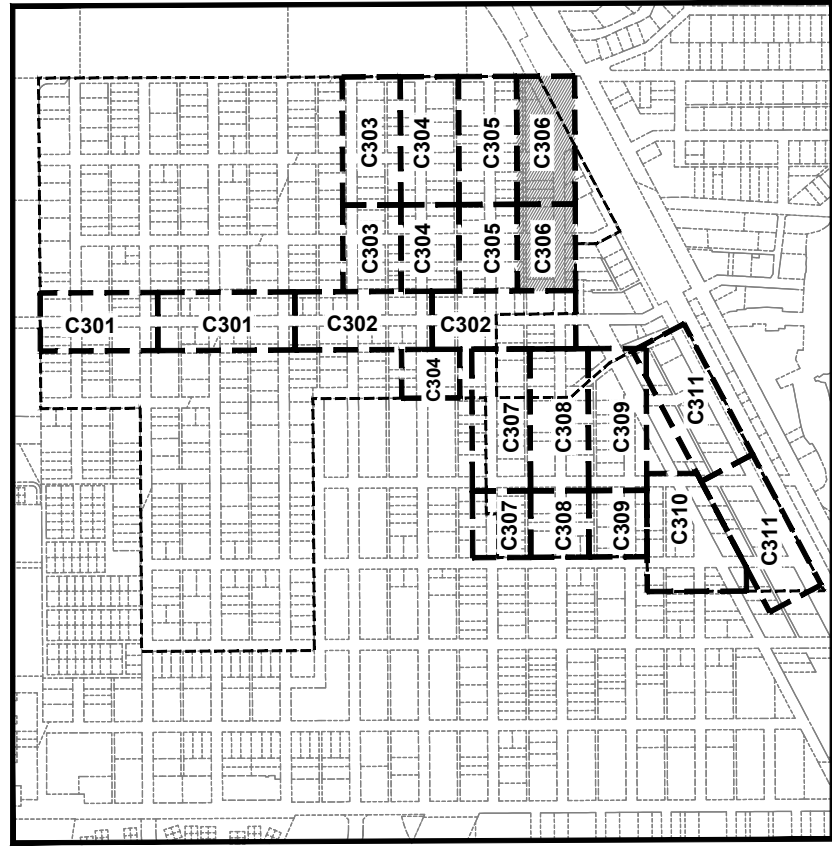
---	RIGHT OF WAY LINE
---	PROPERTY LINE
---	EXISTING STORM PIPE
---	EXISTING EDGE OF PAVEMENT
---	EXISTING WATER MAIN
---	PROPOSED WATER MAIN
---	EXISTING UTILITY VALVE
---	PROPOSED UTILITY VALVE
---	EXISTING REDUCER
---	PROPOSED REDUCER
---	PROPOSED UTILITY PLUG
---	EXISTING FIRE HYDRANT
---	PROPOSED FIRE HYDRANT
---	PROPOSED SAMPLE POINT
---	EXISTING SANITARY SERVICE
---	EXISTING FORCE MAIN
---	EXISTING BURIED TELEPHONE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING OVERHEAD CABLE TV
---	EXISTING WOOD POWER POLE
---	EXISTING MAIL BOX
---	PROPOSED DOUBLE WATER SERVICE (1" W/ (2) 5/8" METERS)
---	PROPOSED SINGLE WATER SERVICE (1" W/ (1) 5/8" METER)
---	EXISTING SEPTIC TANK
---	EXISTING WELL
---	EXISTING CLEAN OUT
---	EXISTING WATER SERVICE

- NOTES:**
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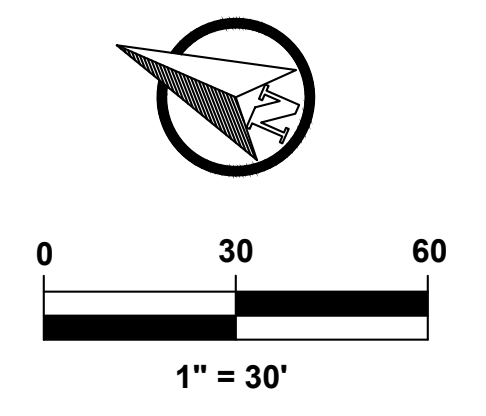


SEE SHEET C302 FOR CONTINUATION

MATCHLINE F-F



**KEY SHEET**  
N.T.S.



**UTILITY PLAN**

**Bowman**  
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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
**UTILITY PLAN**  
S.E. COMMERCE AVE. - STA 10+00 TO 19+13

MARTIN COUNTY  
FLORIDA

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC	CB
DESIGN	DRAWN
	CHKD
SCALE: 1" = 30'	
JOB No. 010513-018	
DATE 6/19/2020	
FILE No. 010513-018-PGD	
SHEET <b>C306</b>	

**100% DESIGN**

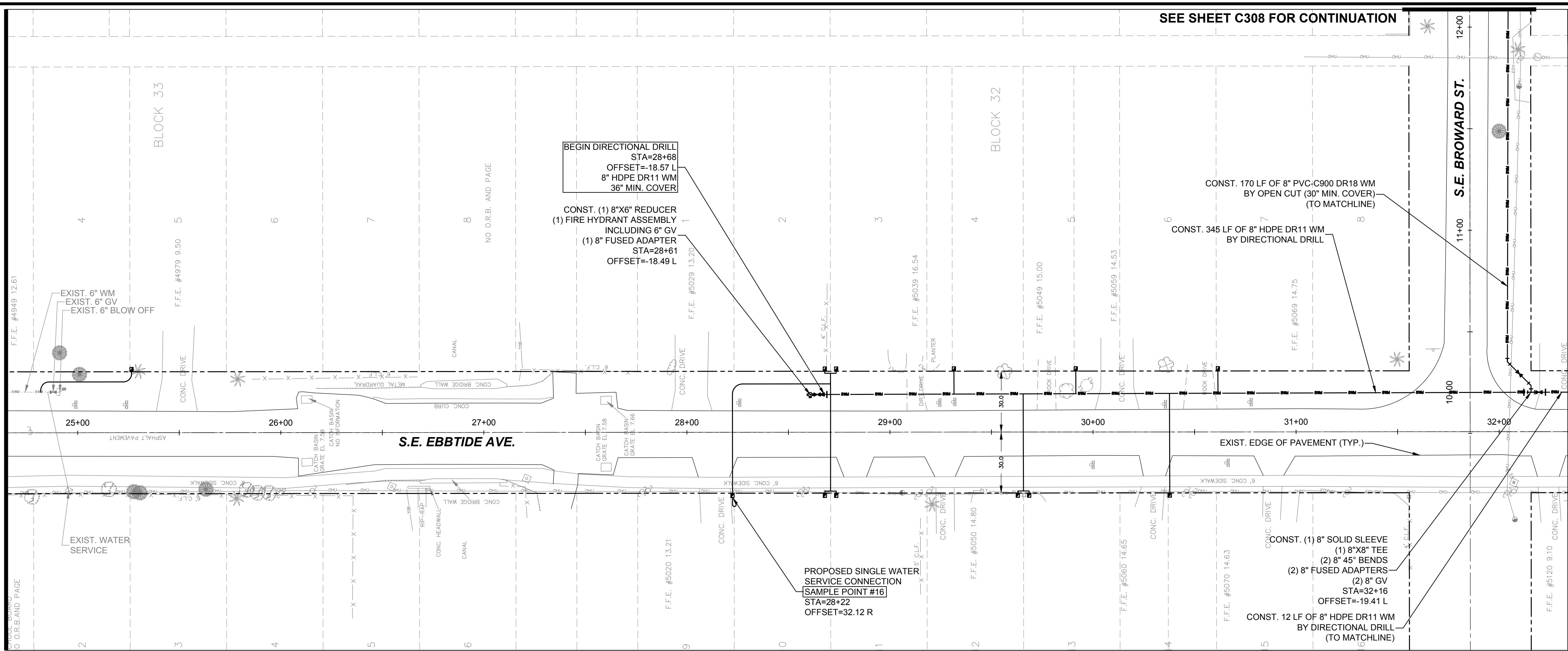
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SEE SHEET C302 FOR CONTINUATION



MATCHLINE G-G

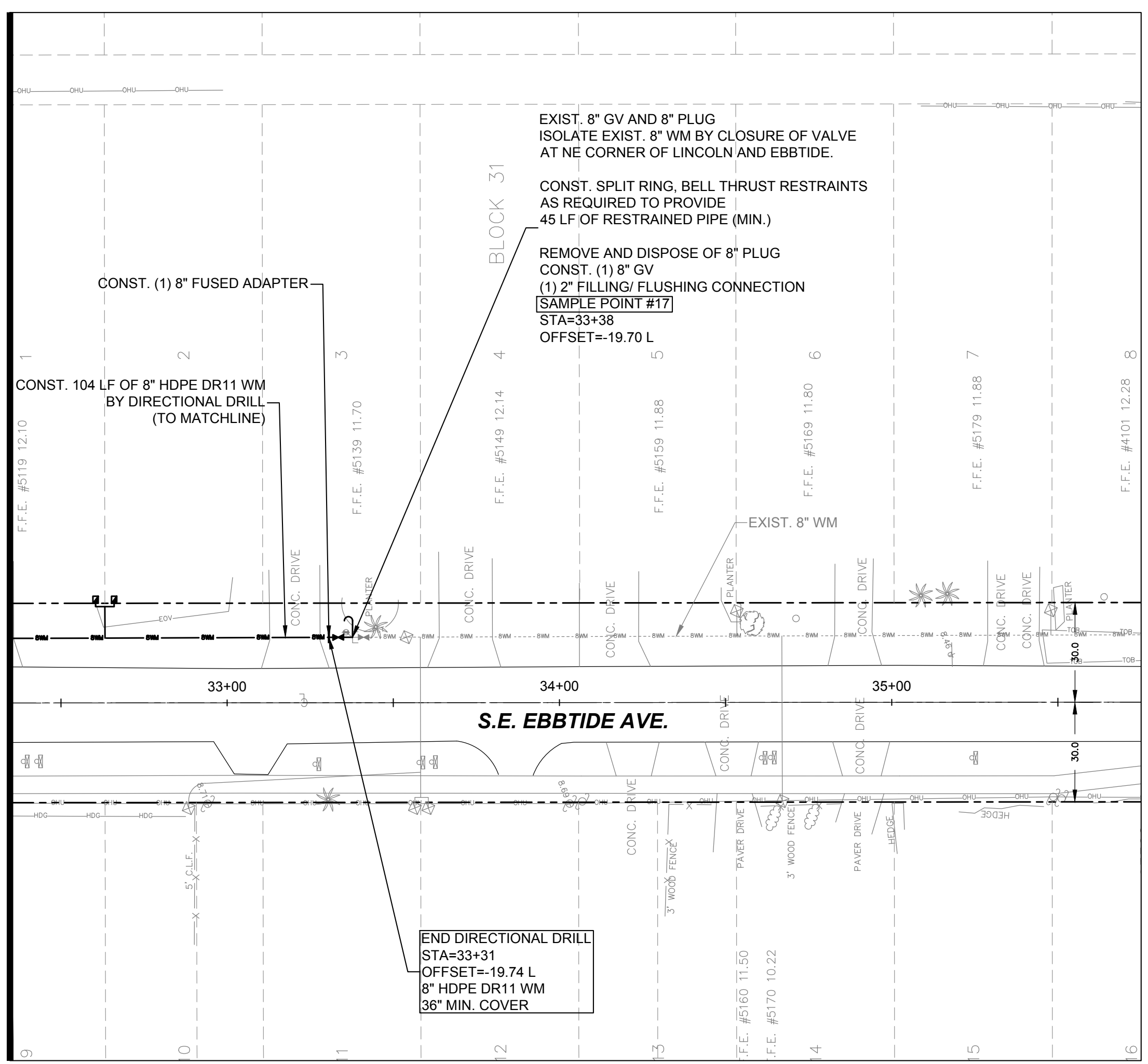
**LEGEND**

- RIGHT OF WAY LINE
- PROPERTY LINE
- EXISTING STORM PIPE
- EXISTING EDGE OF PAVEMENT
- WM EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- EXISTING UTILITY VALVE
- PROPOSED UTILITY VALVE
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- PROPOSED FIRE HYDRANT
- PROPOSED SAMPLE POINT
- EXISTING SANITARY SERVICE
- FM EXISTING FORCE MAIN
- BT EXISTING BURIED TELEPHONE
- OE EXISTING OVERHEAD ELECTRIC
- OH(CATV) EXISTING OVERHEAD CABLE TV
- EXISTING WOOD POWER POLE
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- PROPOSED SINGLE WATER SERVICE (1" W (1) 5/8" METER)
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- EXISTING WELL
- EXISTING CLEAN OUT
- EXISTING WATER SERVICE

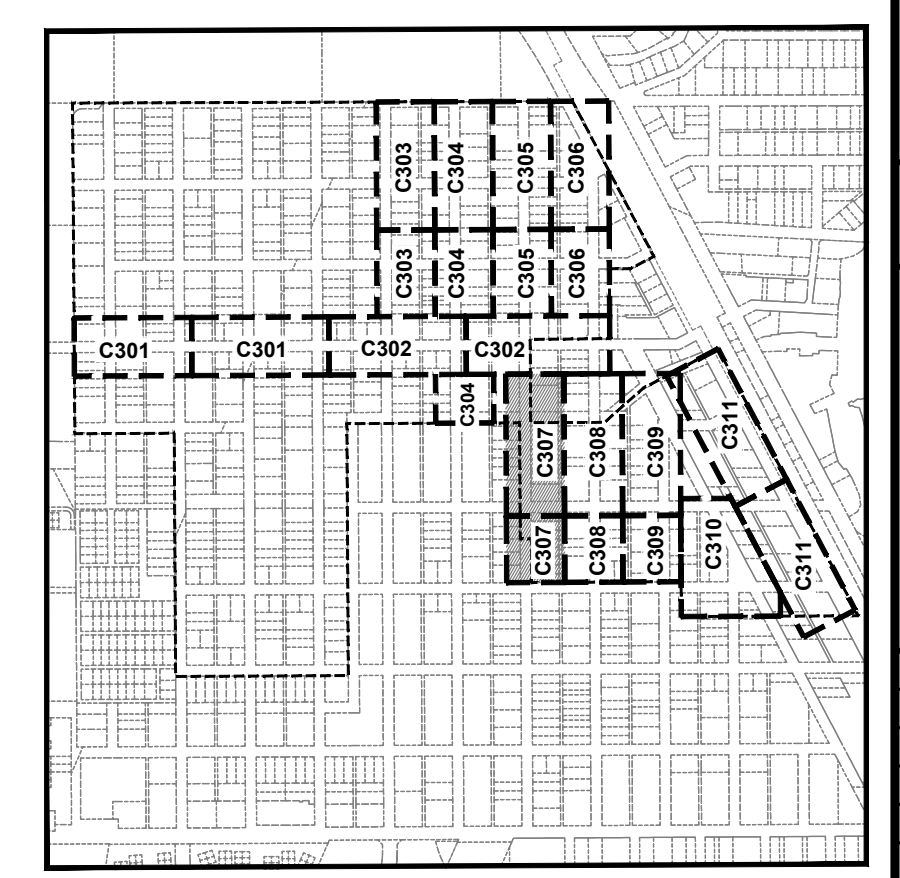
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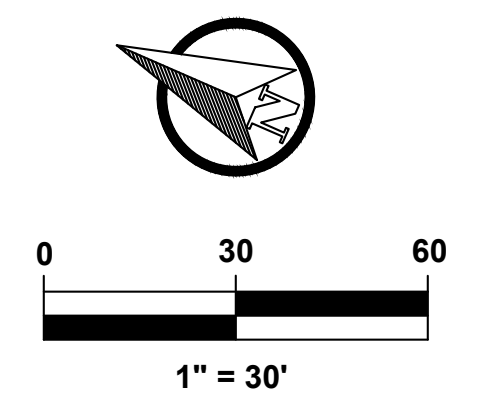
MATCHLINE G-G



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**KEY SHEET**  
N.T.S.



**UTILITY PLAN**

**Bowman**  
CONSULTING

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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
**UTILITY PLAN**  
S.E. EBBTIDE AVE. - STA 24+50 TO 35+75

MARTIN COUNTY  
FLORIDA

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
JC	CHKD

SCALE: 1" = 30'

JOB No. 010513-018

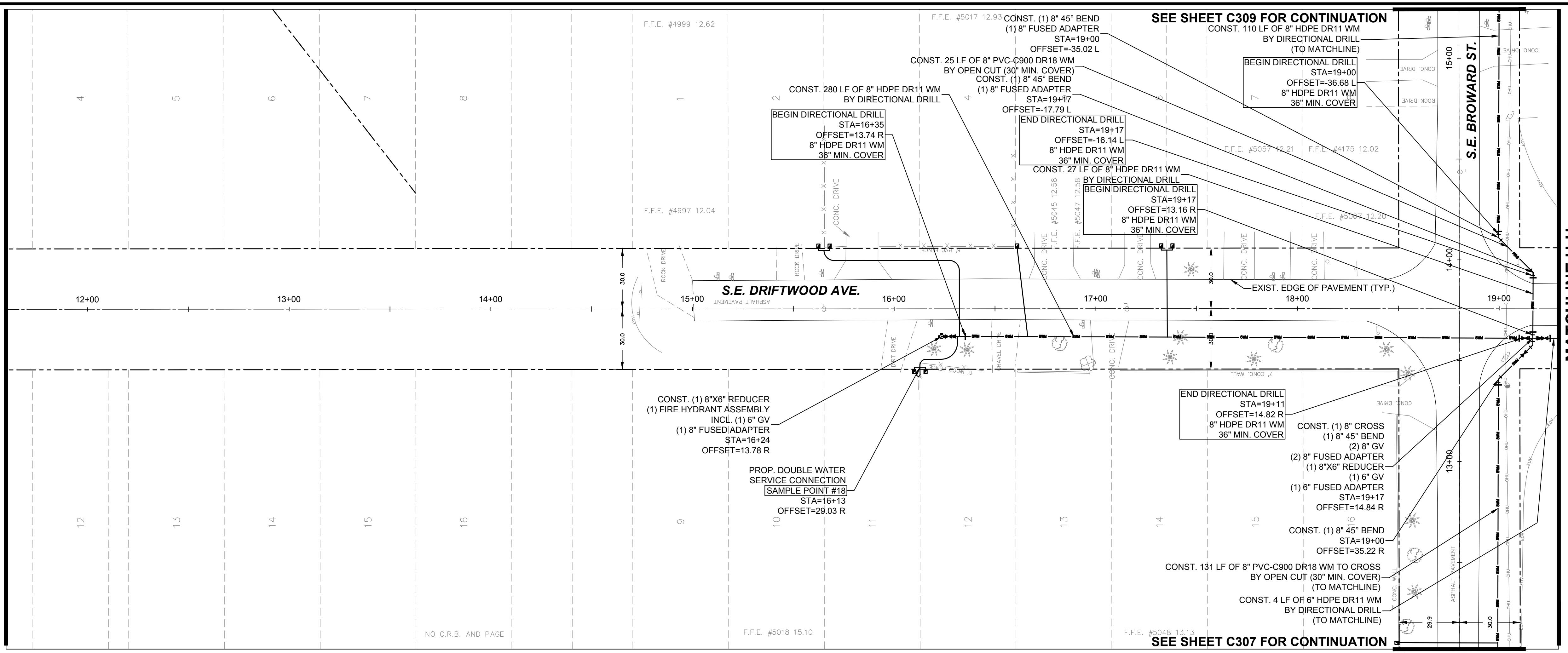
DATE 6/19/2020

FILE No. 010513-018-PGD

SHEET **C307**

100% DESIGN

SEE SHEET C302 FOR CONTINUATION



MATCHLINE H-H

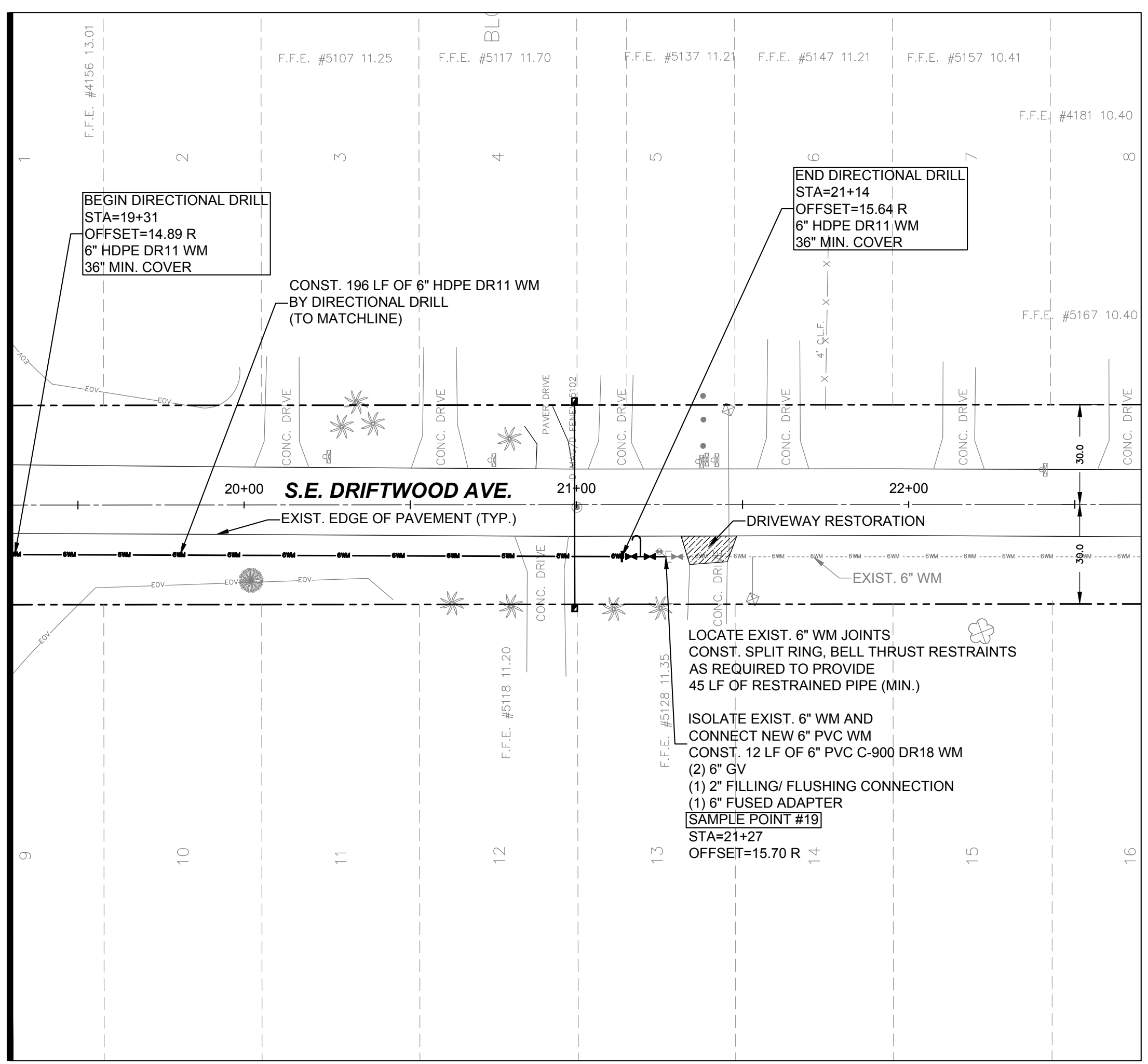
**LEGEND**

- RIGHT OF WAY LINE
- - - PROPERTY LINE
- - - EXISTING STORM PIPE
- - - EXISTING EDGE OF PAVEMENT
- WM EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- EXISTING UTILITY VALVE
- PROPOSED UTILITY VALVE
- EXISTING REDUCER
- PROPOSED REDUCER
- EXISTING UTILITY PLUG
- PROPOSED UTILITY PLUG
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING SAMPLE POINT
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- BT EXISTING BURIED TELEPHONE
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- EXISTING WOOD POWER POLE
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- PROPOSED DOUBLE WATER SERVICE (1" W/ (2) 5/8" METERS)
- PROPOSED SINGLE WATER SERVICE (1" W/ (1) 5/8" METER)
- EXISTING SEPTIC TANK
- EXISTING WELL
- EXISTING CLEAN OUT
- EXISTING WATER SERVICE

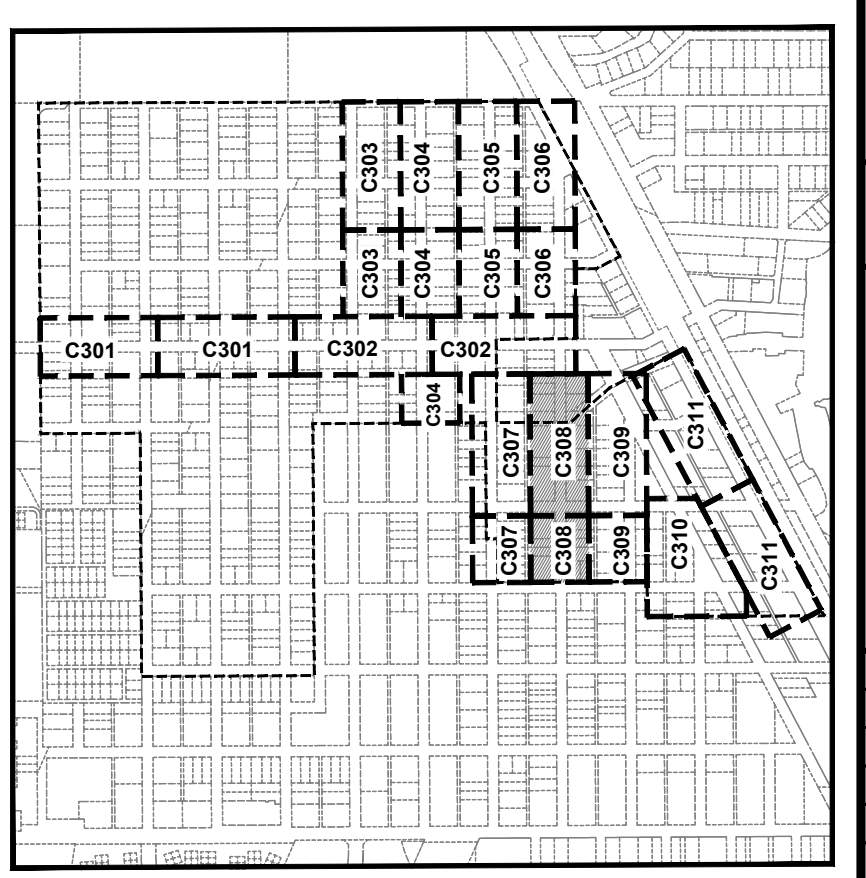
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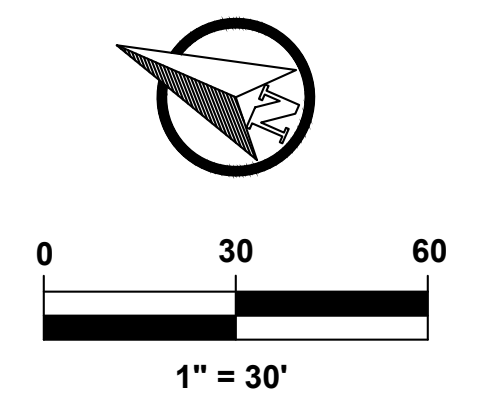
MATCHLINE H-H



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**KEY SHEET**  
N.T.S.



**UTILITY PLAN**

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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
**UTILITY PLAN**  
S.E. DRIFTWOOD AVE. - STA 11+60 TO 22+70

MARTIN COUNTY  
FLORIDA

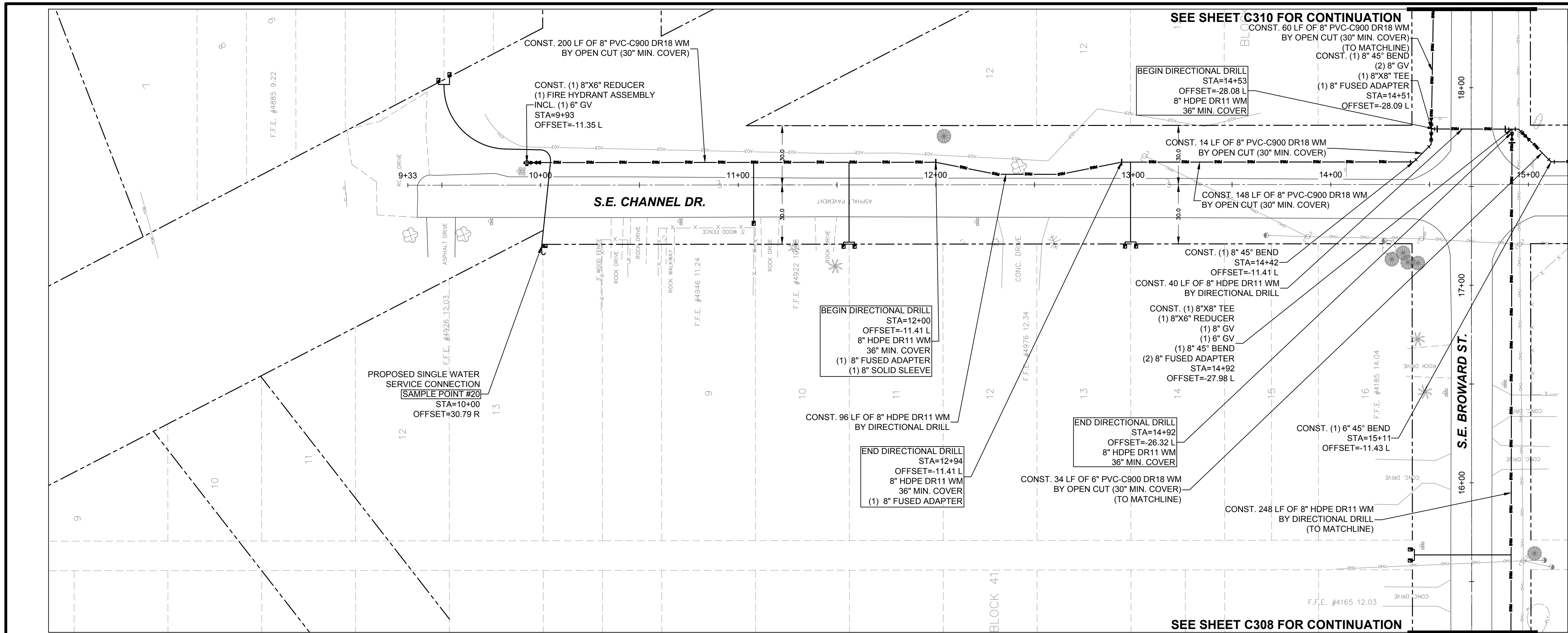
PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
	JC CHKD
SCALE: 1" = 30'	
JOB No. 010513-018	
DATE 6/19/2020	
FILE No. 010513-018-PGD	
SHEET <b>C308</b>	

**100% DESIGN**

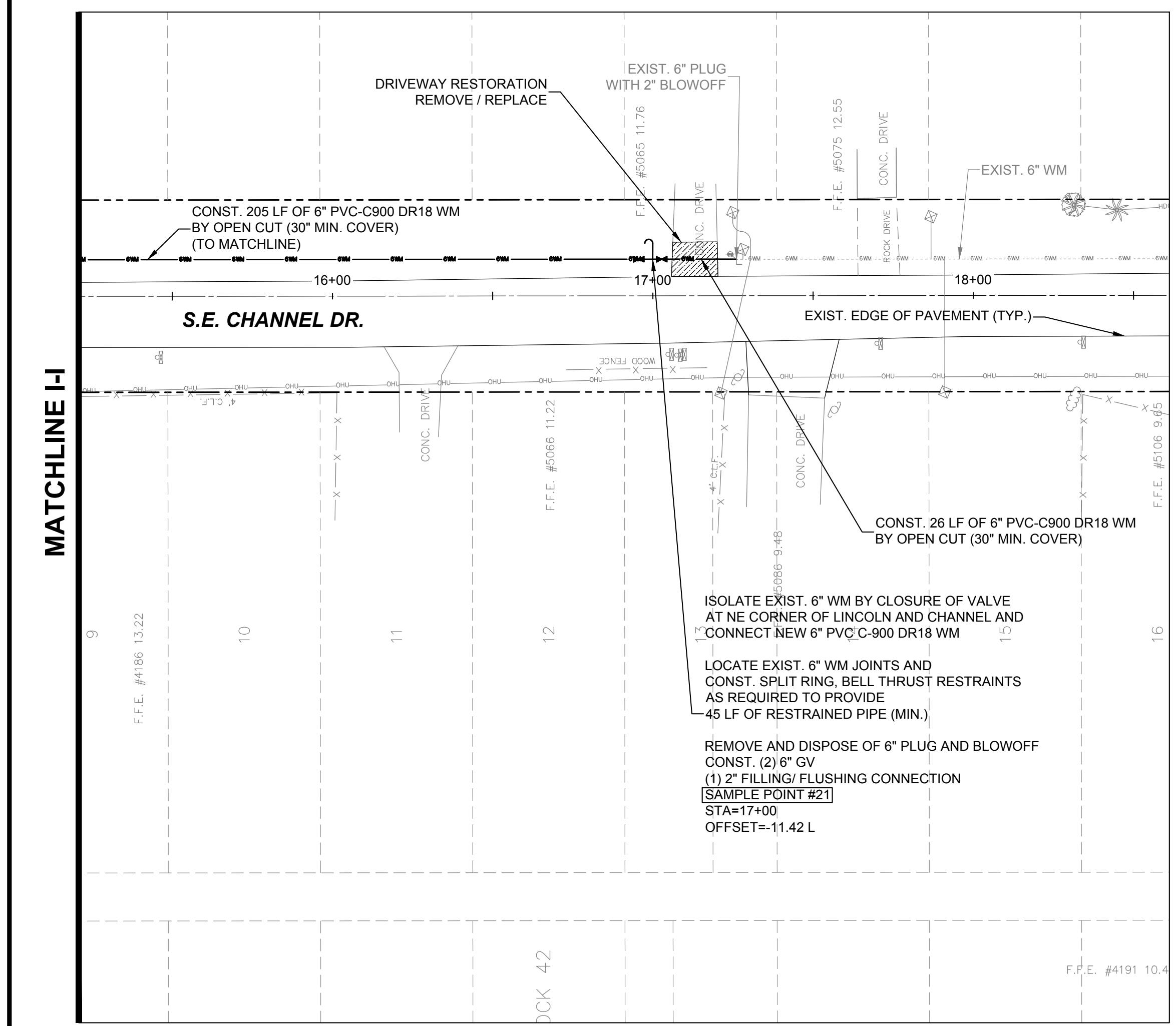


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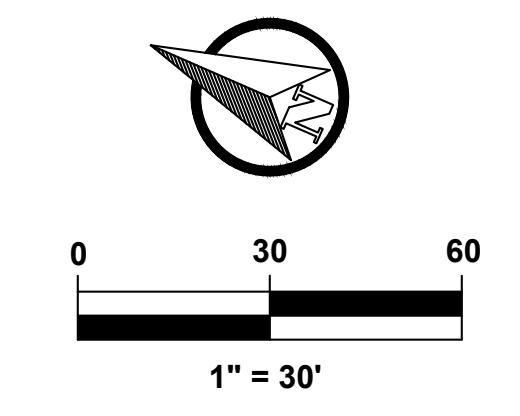
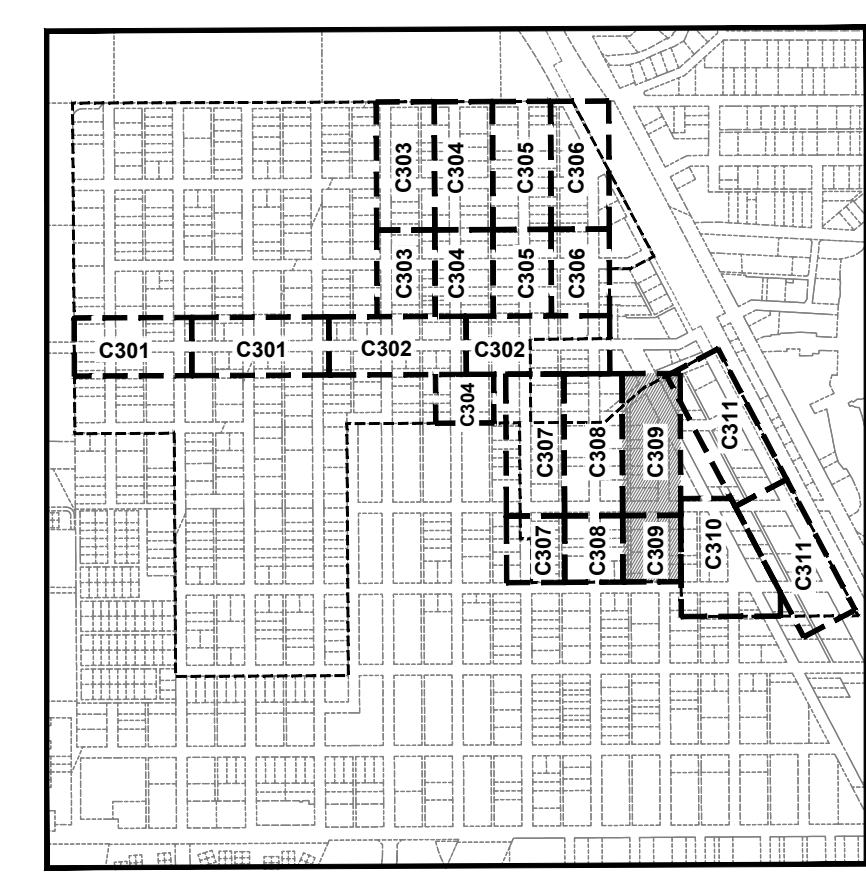
- RIGHT OF WAY LINE
- PROPERTY LINE
- EXISTING STORM PIPE
- EXISTING EDGE OF PAVEMENT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING UTILITY VALVE
- PROPOSED UTILITY VALVE
- EXISTING REDUCER
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- PROPOSED UTILITY PLUG
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SERVICE
- EXISTING SANITARY SERVICE
- EXISTING FORCE MAIN
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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
**UTILITY PLAN**  
**S.E. CHANNEL DR. - STA 10+00 TO 18+60**  
FLORIDA  
MARTIN COUNTY

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL. REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
JC	CHKD

SCALE: 1" = 30'

JOB No. 010513-018

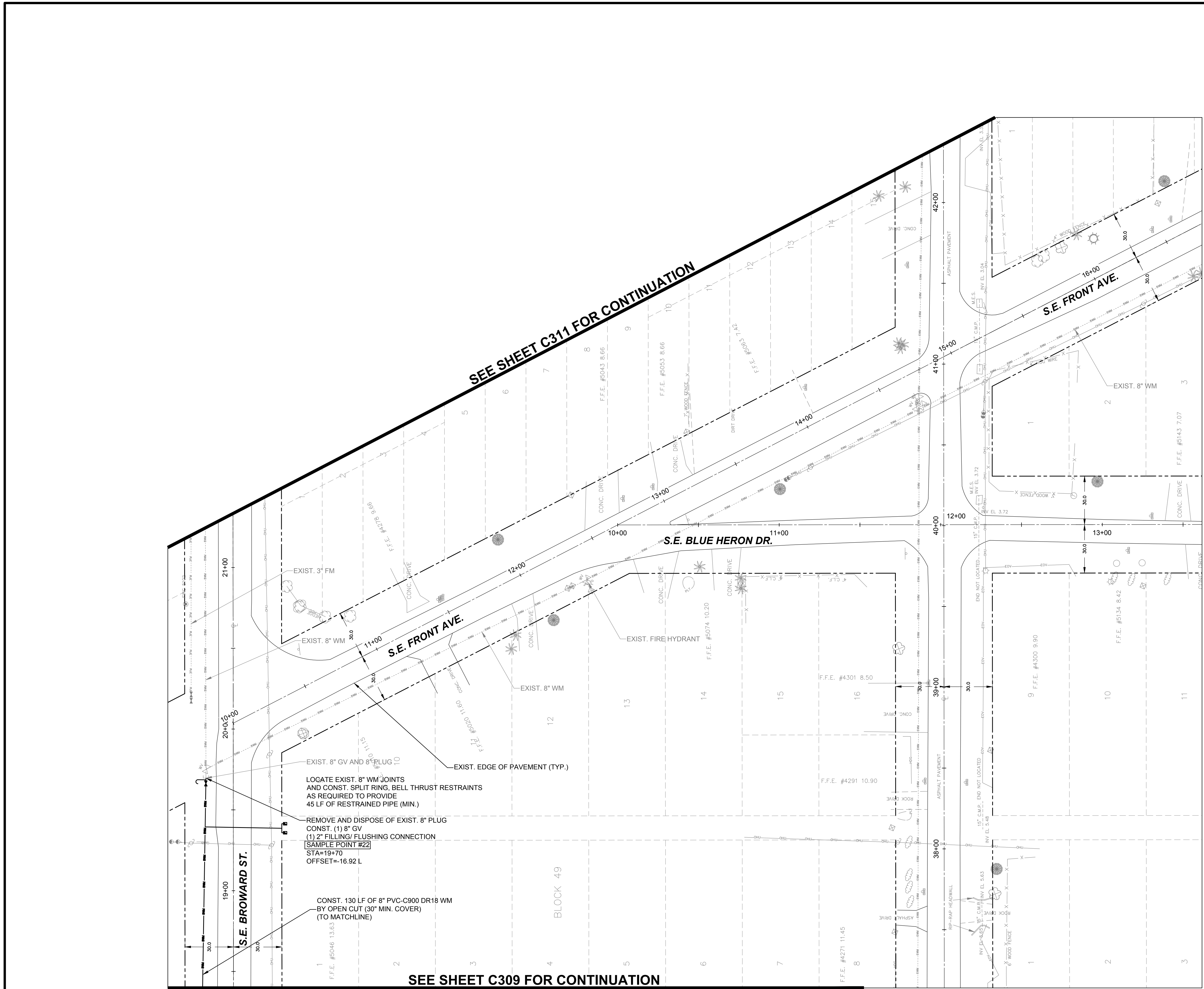
DATE 6/19/2020

FILE No. 010513-018-PGD

**C309**

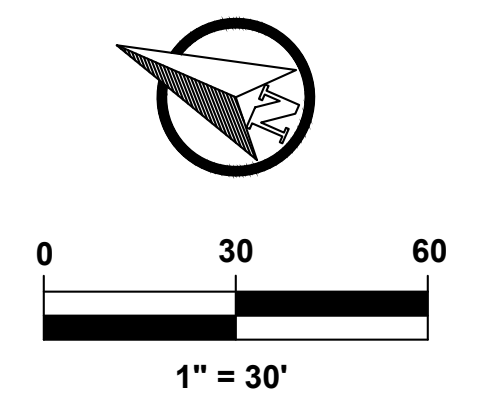
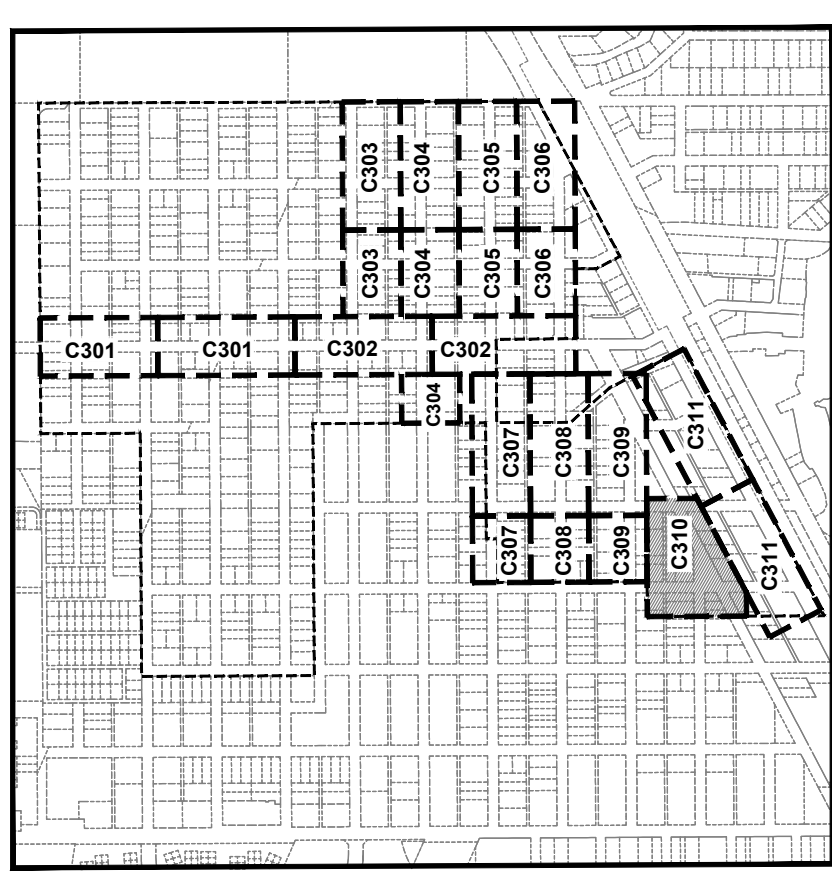
SHEET

**100% DESIGN**



- LEGEND**
- RIGHT OF WAY LINE
  - PROPERTY LINE
  - EXISTING STORM PIPE
  - EXISTING EDGE OF PAVEMENT
  - WM --- EXISTING WATER MAIN
  - WM --- PROPOSED WATER MAIN
  - EXISTING UTILITY VALVE
  - PROPOSED UTILITY VALVE
  - EXISTING REDUCER
  - PROPOSED REDUCER
  - PROPOSED UTILITY PLUG
  - EXISTING FIRE HYDRANT
  - PROPOSED FIRE HYDRANT
  - PROPOSED SAMPLE POINT
  - EXISTING SANITARY SERVICE
  - FM --- EXISTING FORCE MAIN
  - BT --- EXISTING BURIED TELEPHONE
  - OE --- EXISTING OVERHEAD ELECTRIC
  - OH(CATV) --- EXISTING OVERHEAD CABLE TV
  - EXISTING WOOD POWER POLE
  - EXISTING MAIL BOX
  - PROPOSED DOUBLE WATER SERVICE (1" W (2) 5/8" METERS)
  - PROPOSED SINGLE WATER SERVICE (1" W (1) 5/8" METER)
  - EXISTING SEPTIC TANK
  - EXISTING WELL
  - EXISTING CLEAN OUT
  - EXISTING WATER SERVICE

- NOTES:**
- ALL ELEVATIONS SHOWN HEREIN REFERENCE DATUM NAVD, 1988.
  - ALL CONSTRUCTION SHALL CONFORM TO MARTIN COUNTY UTILITY DEPARTMENT MINIMUM DESIGN STANDARDS AND CONSTRUCTION STANDARDS (LATEST EDITION 2016).
  - CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM MARTIN COUNTY FOR CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAYS.
  - CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLAN TO MARTIN COUNTY FOR APPROVAL, PRIOR TO STARTING CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. CONTRACTOR SHALL VIDEO TAPE THE ENTIRE RIGHT-OF-WAY AND ADJACENT PRIVATE PROPERTY WITHIN FULL LIMITS OF WORK PRIOR TO CONSTRUCTION.
  - ALL WORK SHALL BE PERFORMED WITHIN THE COUNTY RIGHT-OF-WAY AND/OR UTILITY EASEMENTS OBTAINED BY MARTIN COUNTY. NO WORK SHALL BE PERFORMED WITHIN PRIVATE PROPERTY WITHOUT PRIOR MARTIN COUNTY APPROVAL.
  - CONTRACTOR SHALL ADJUST ALIGNMENT AS NEEDED TO OBTAIN FDEP MIN. CLEARANCE FROM ALL EXISTING POTABLE WELLS, SEPTIC TANKS AND/OR DRAIN FIELDS BASED ON PRE-WORK INSPECTION WITH ENGINEER AND MARTIN COUNTY.



**Bowman**  
CONSULTING

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030  
BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 39482

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**PORT SALERNO - NEW MONROVIA**  
PHASE I - (WATER MAIN EXTENSION)  
**UTILITY PLAN**  
S.E. BLUE HERON DR. - STA 10+00 TO 13+60  
FLORIDA  
MARTIN COUNTY

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL REGISTRATION NO.  
75472

PLAN STATUS

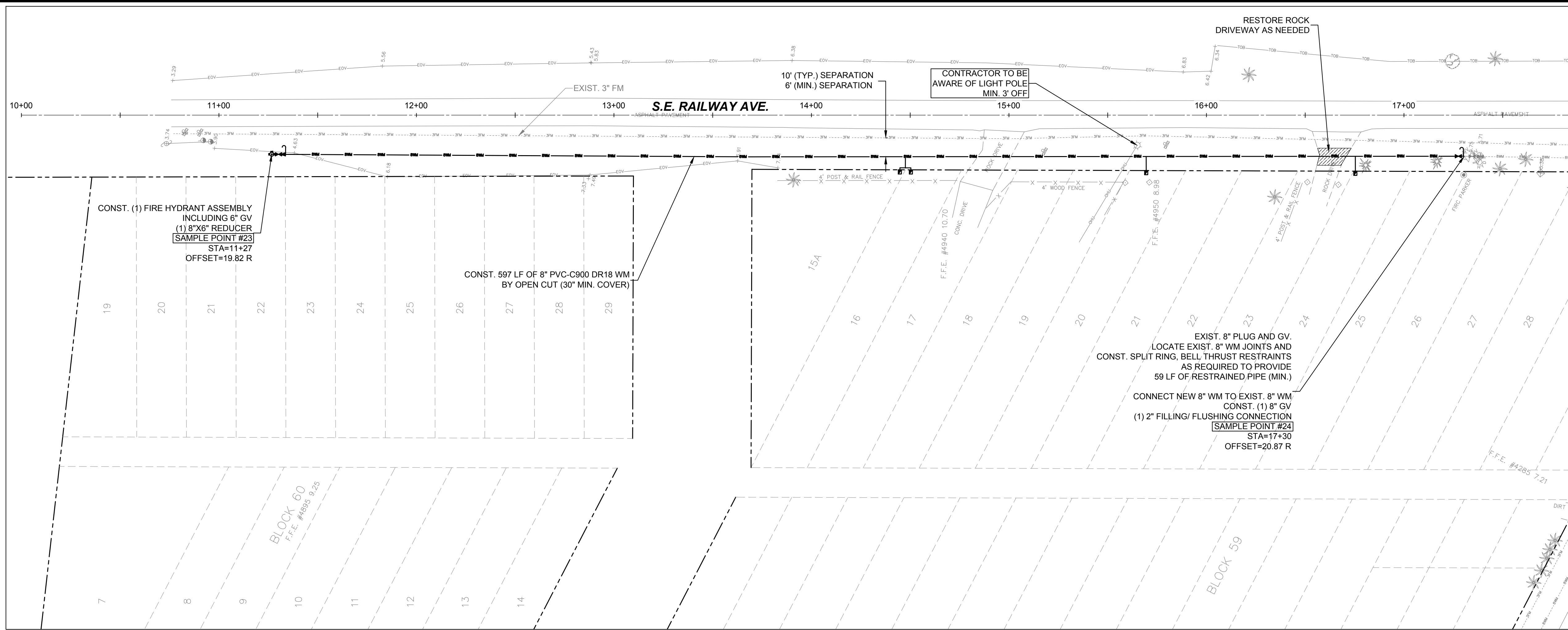
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JC DESIGN	CB DRAWN
JC	JC CHKD
SCALE: 1" = 30'	
JOB No. 010513-018	
DATE 6/19/2020	
FILE No. 010513-018-PGD	
<b>C310</b>	
SHEET	



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**NOTE:**  
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### LEGEND

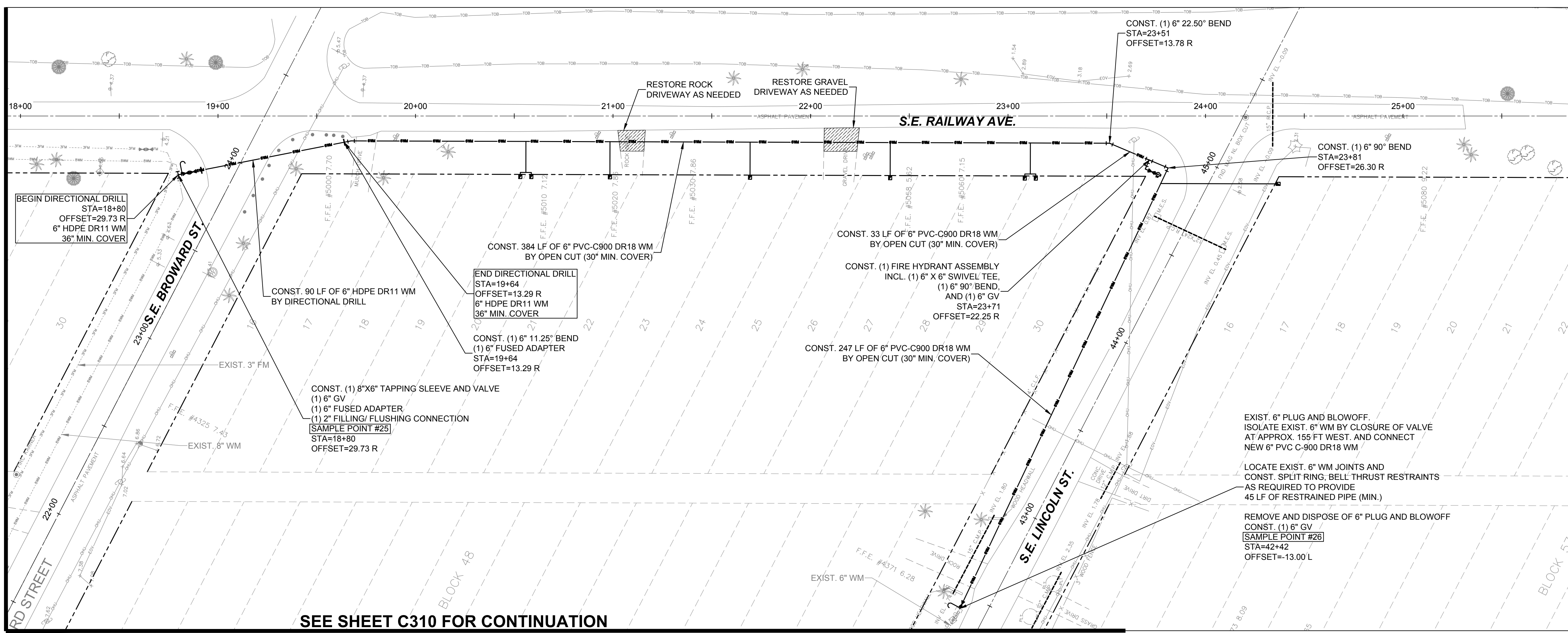
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 BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30492



### KEY SHEET

N.T.S.

**UTILITY PLAN**

## PORT SALERNO - NEW MONROVIA

### PHASE I - (WATER MAIN EXTENSION)

### UTILITY PLAN

### S.E. RAILROAD AVE. - STA 10+00 TO 25+50

FLORIDA  
MARTIN COUNTY

PROJECT NO  
010513-01-018

JEREMY A. COVEY, P.E.  
FL REGISTRATION NO.  
75472

PLAN STATUS

DATE	DESCRIPTION
JC DESIGN	CB DRAWN
JC	JC CHKD

SCALE: 1" = 30'

JOB No. 010513-018

DATE 6/19/2020

FILE No. 010513-018-PGD

SHEET **C311**

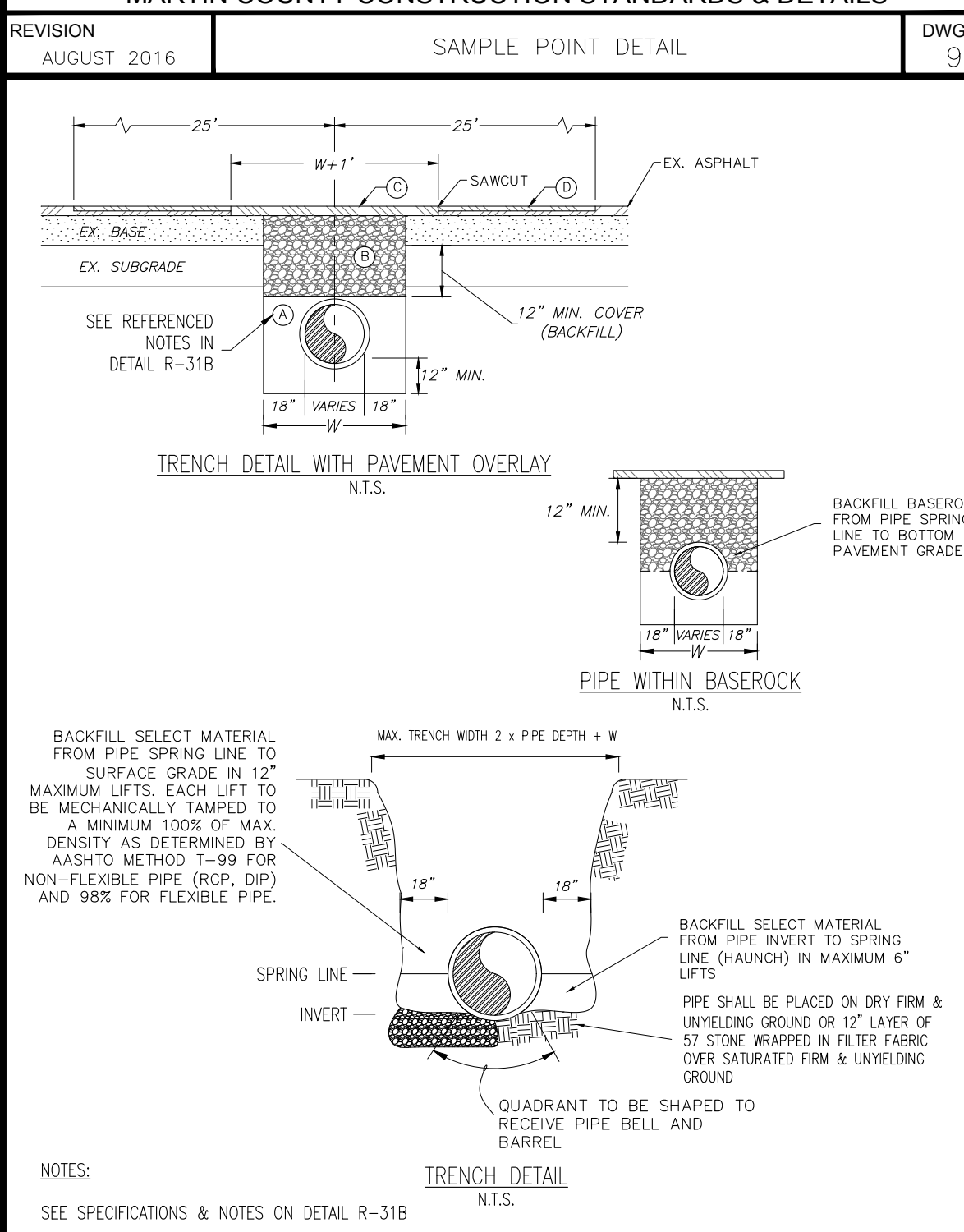
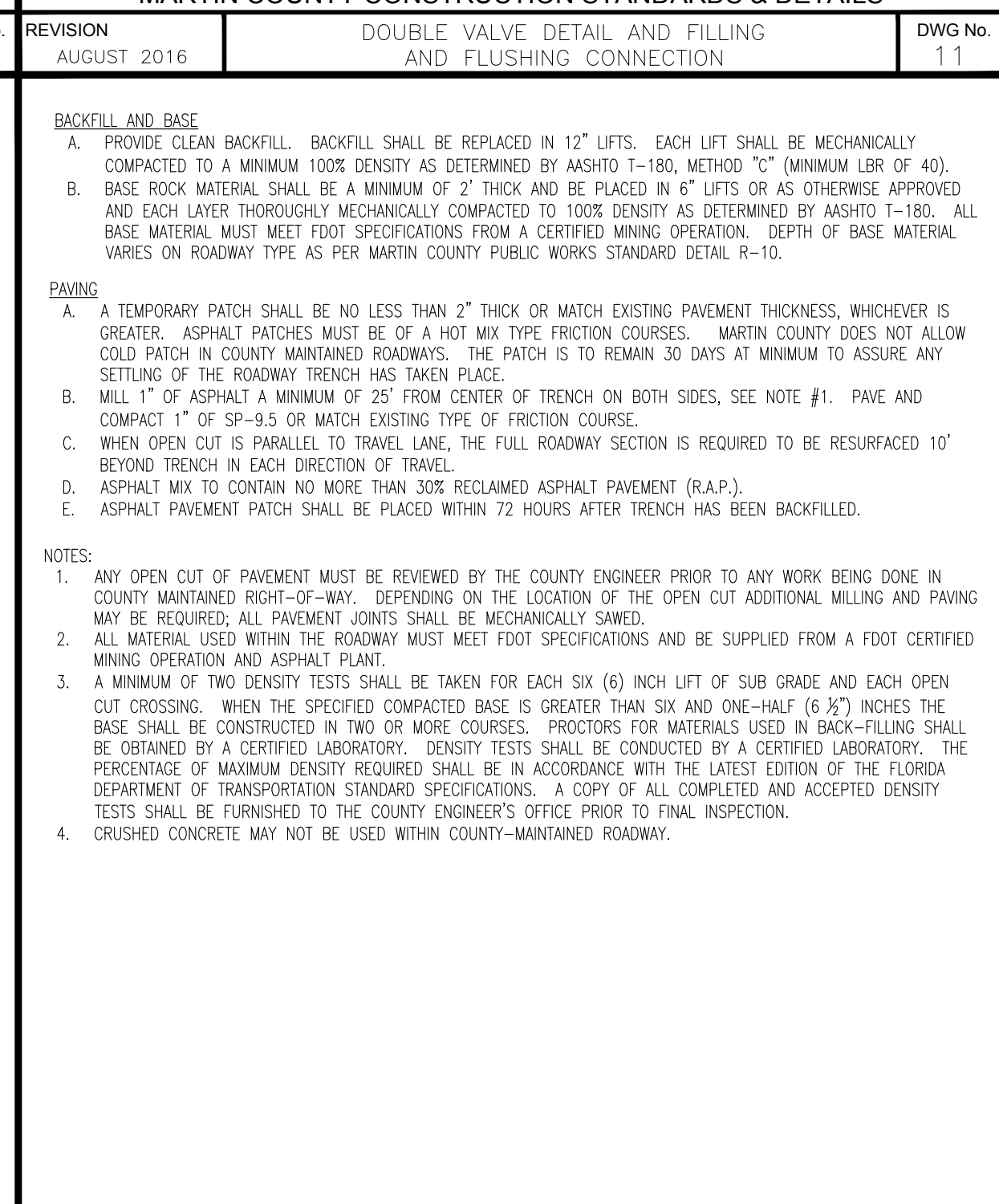
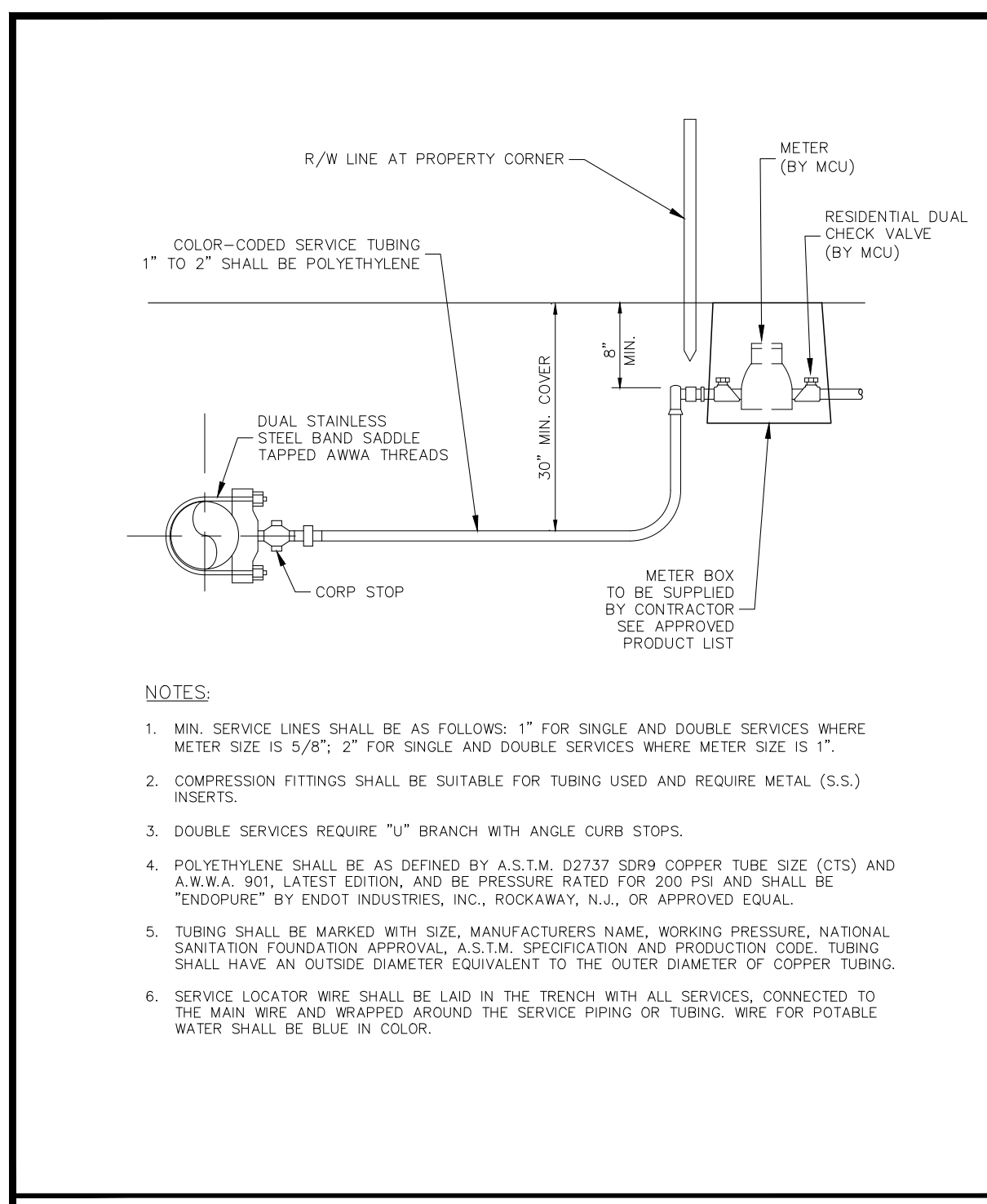
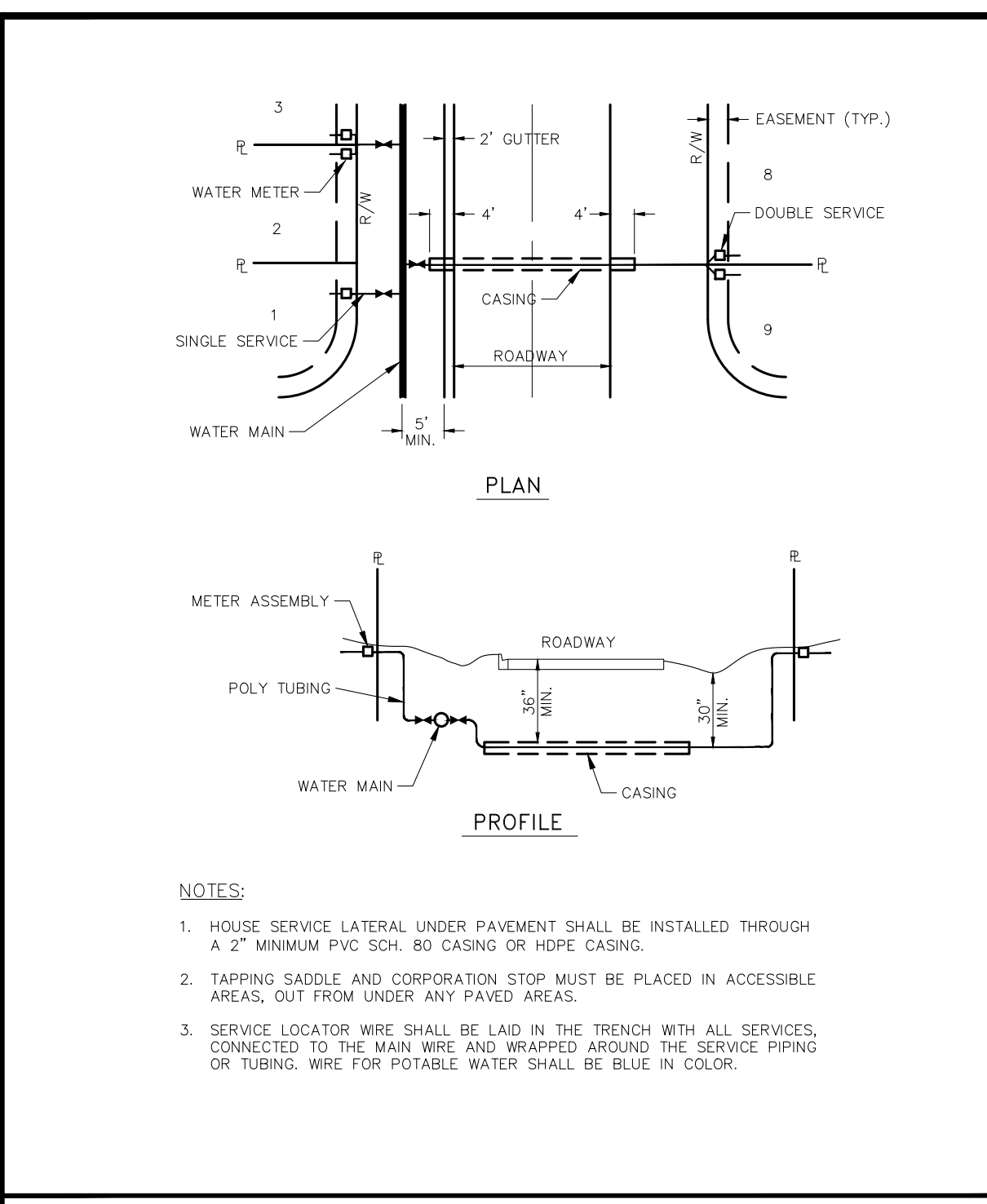
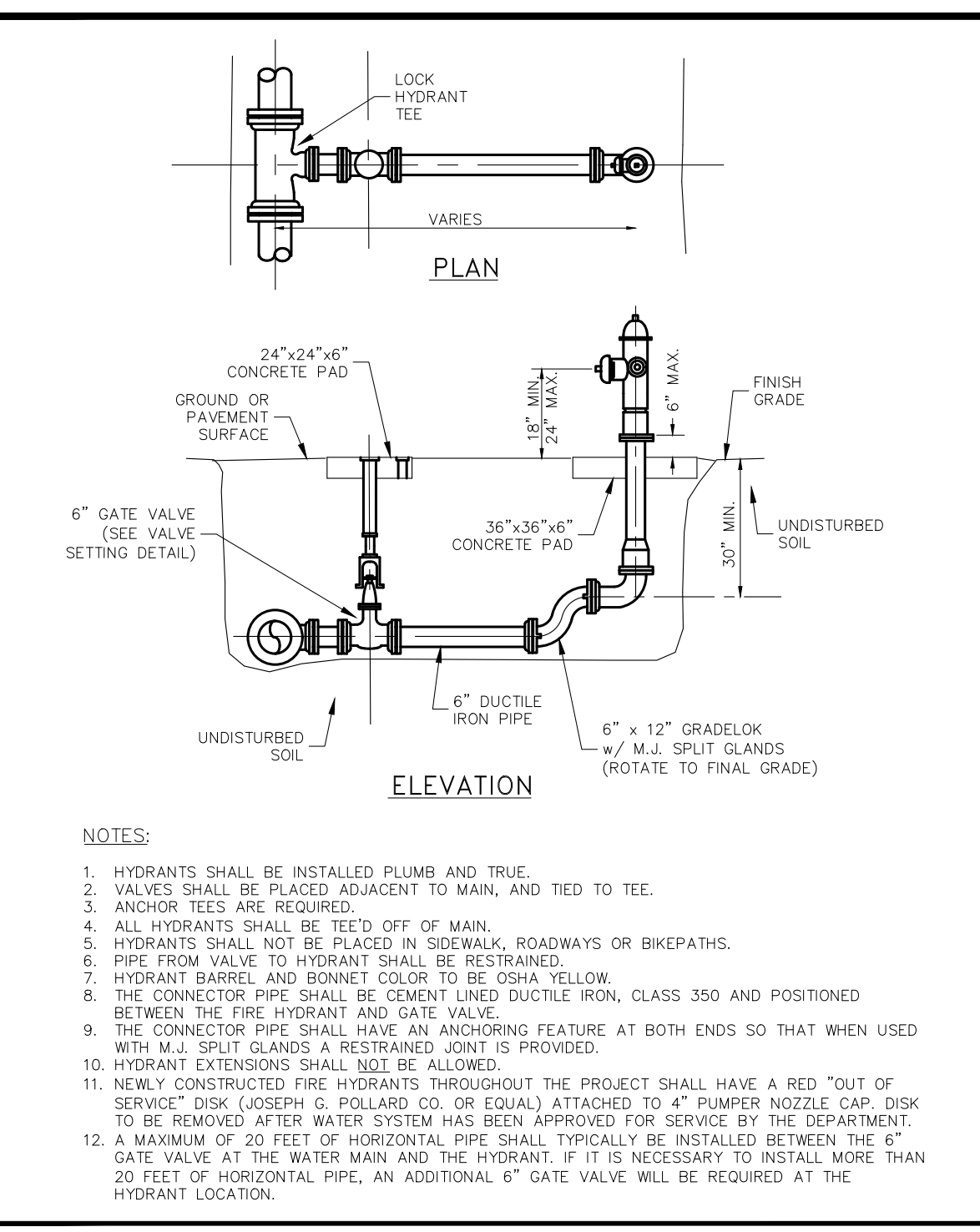
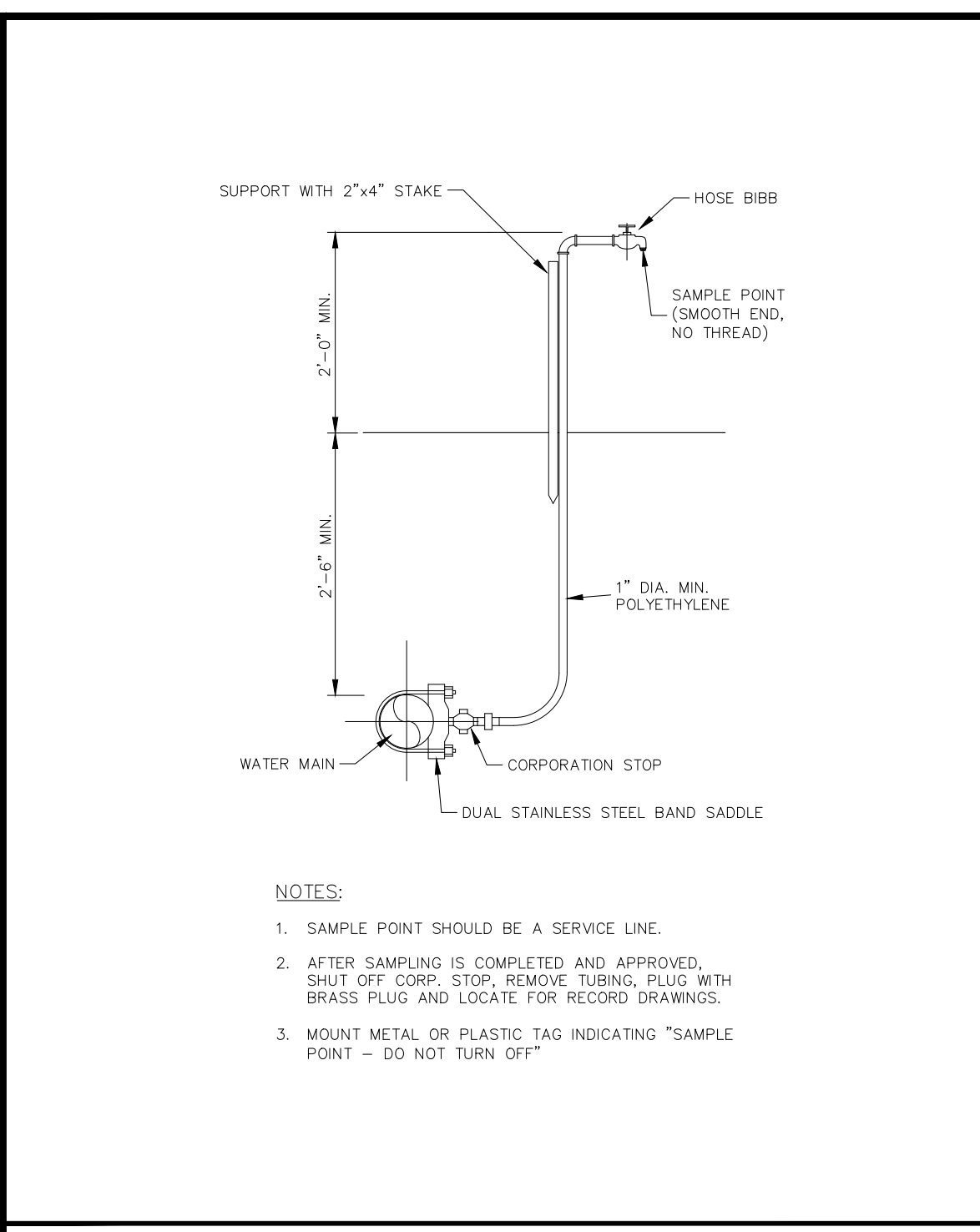
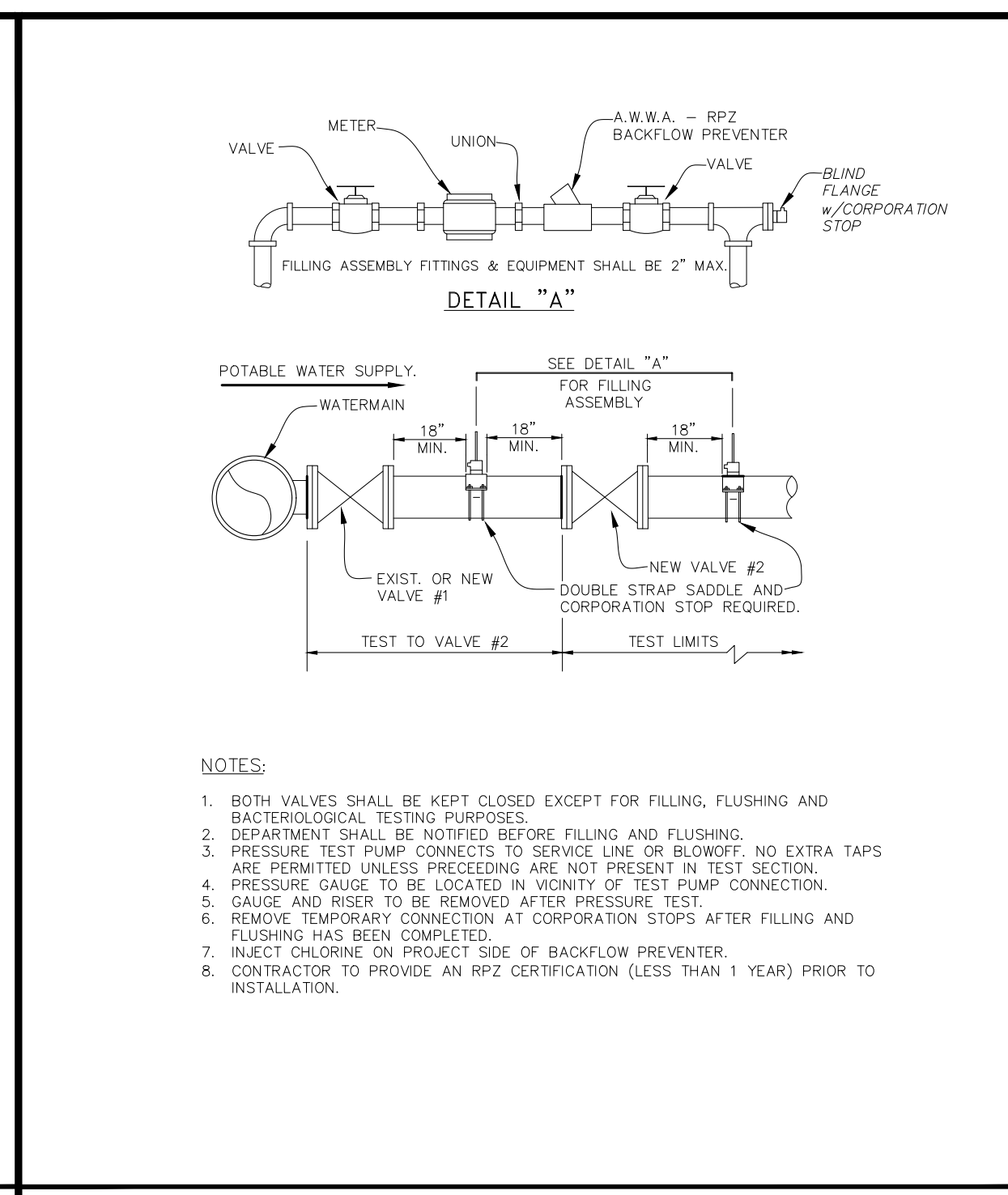
KNOW WHAT'S BELOW  
ALWAYS CALL 811  
BEFORE YOU DIG

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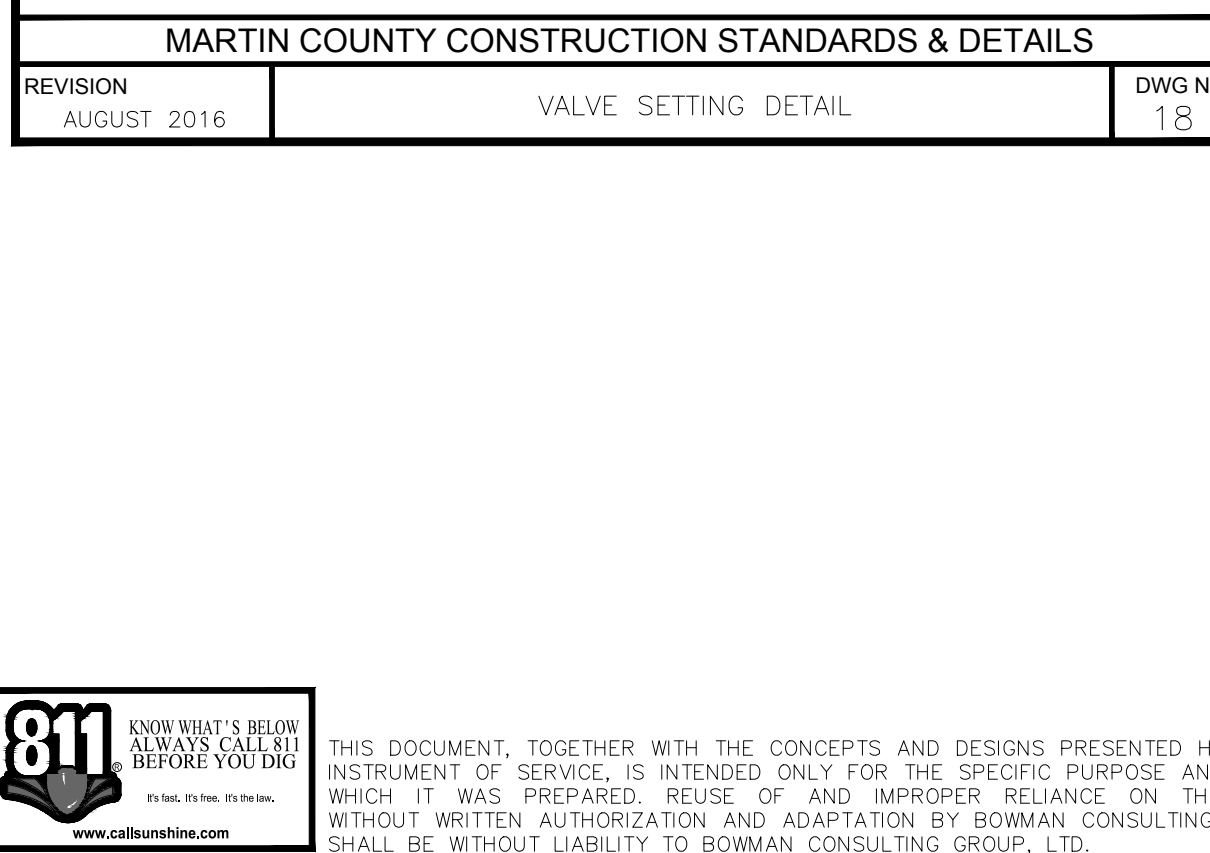
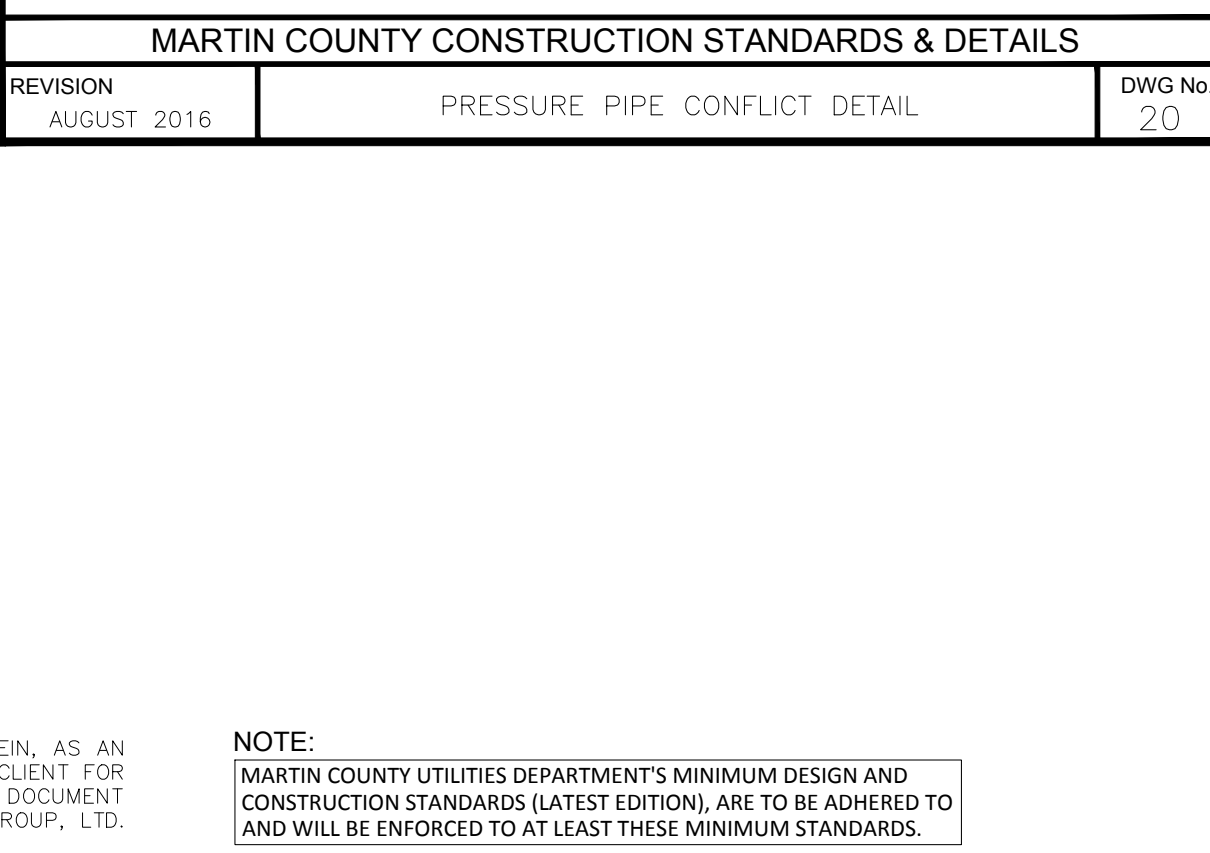
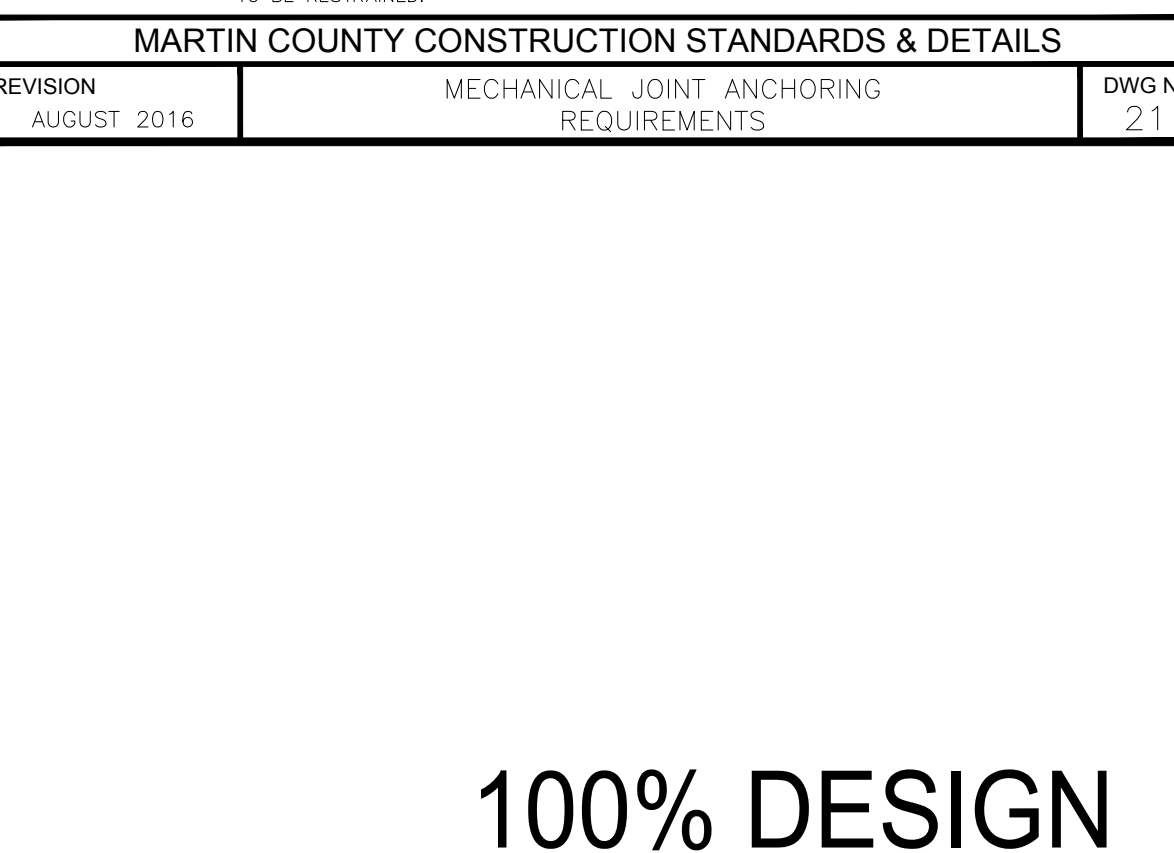
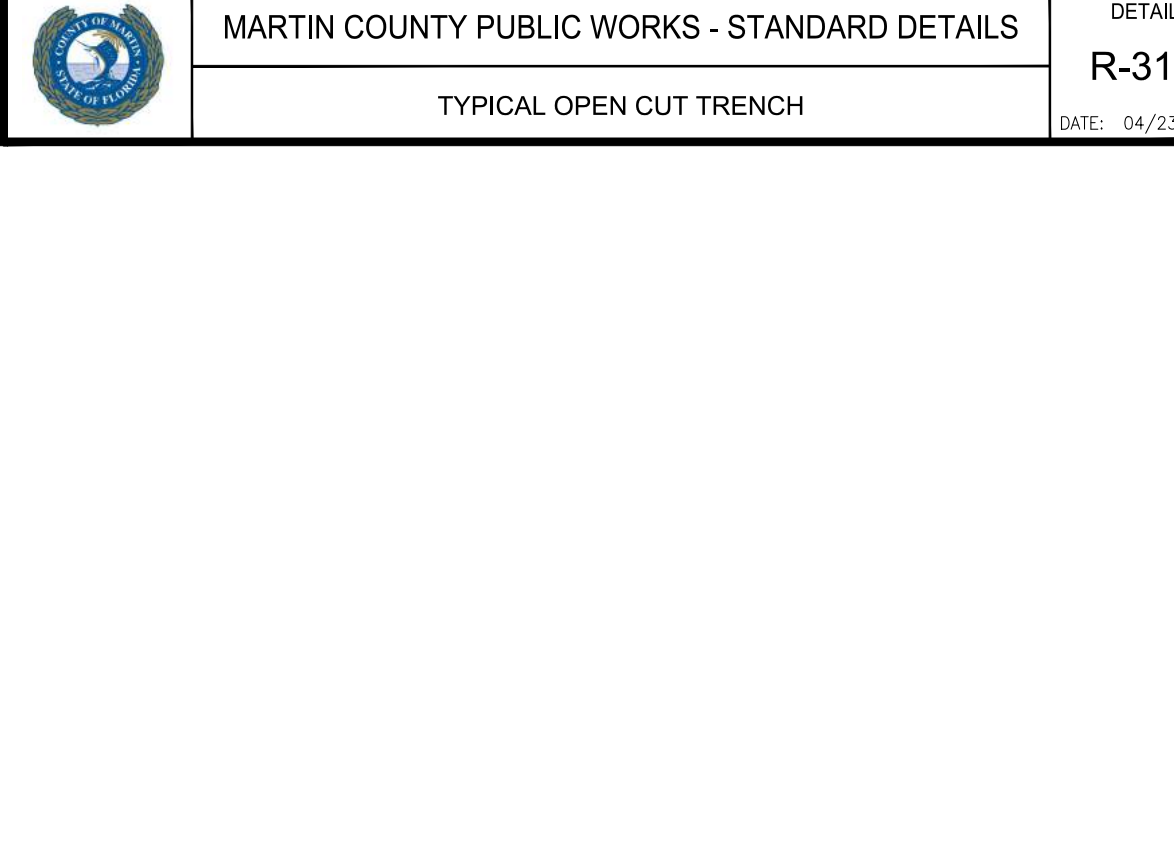
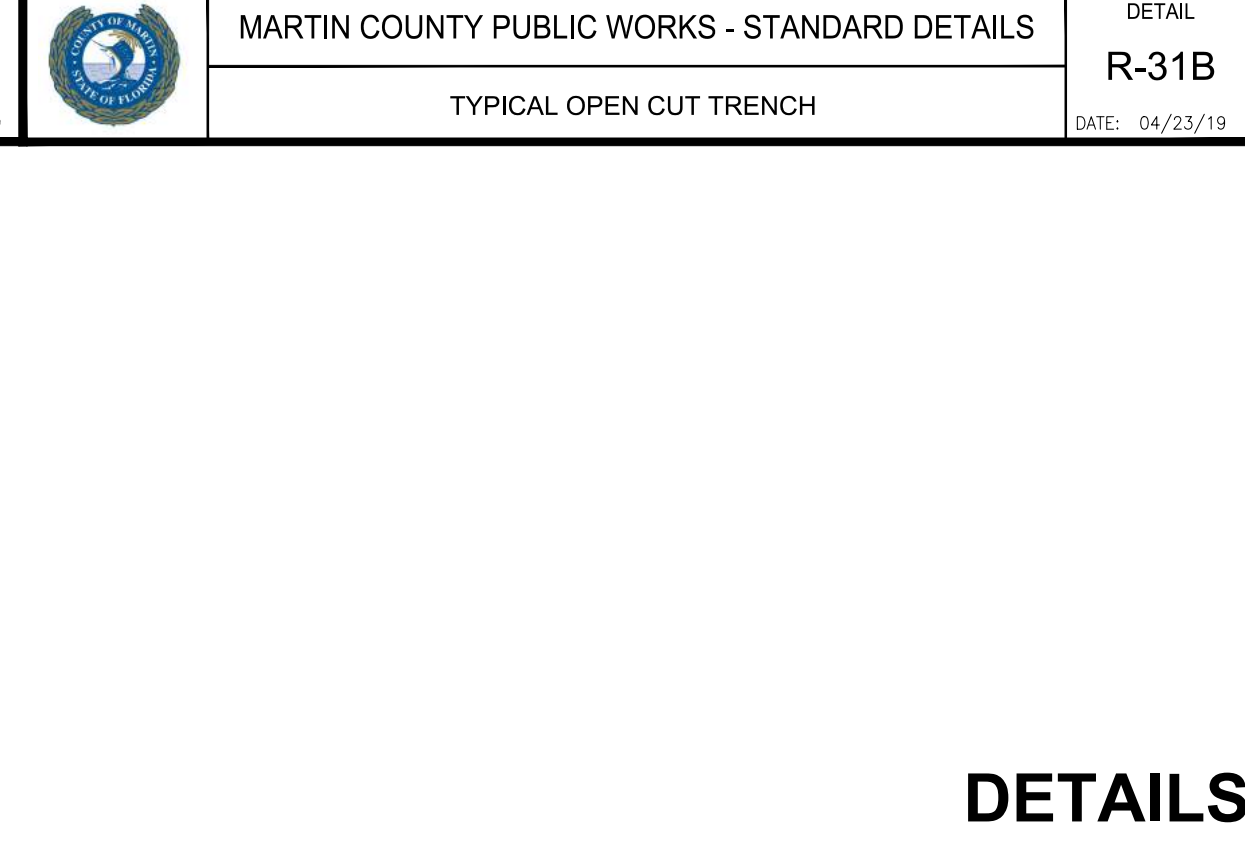
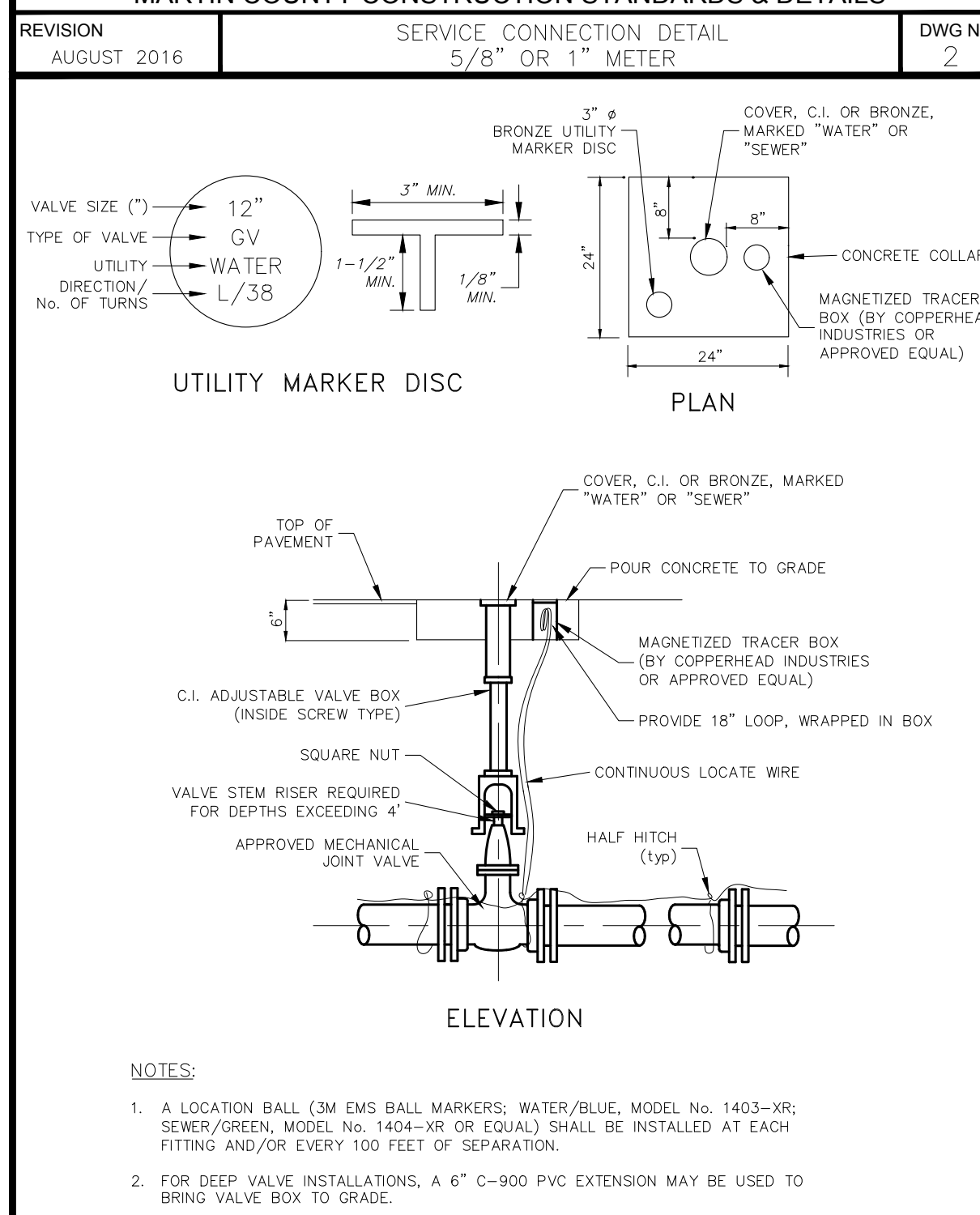
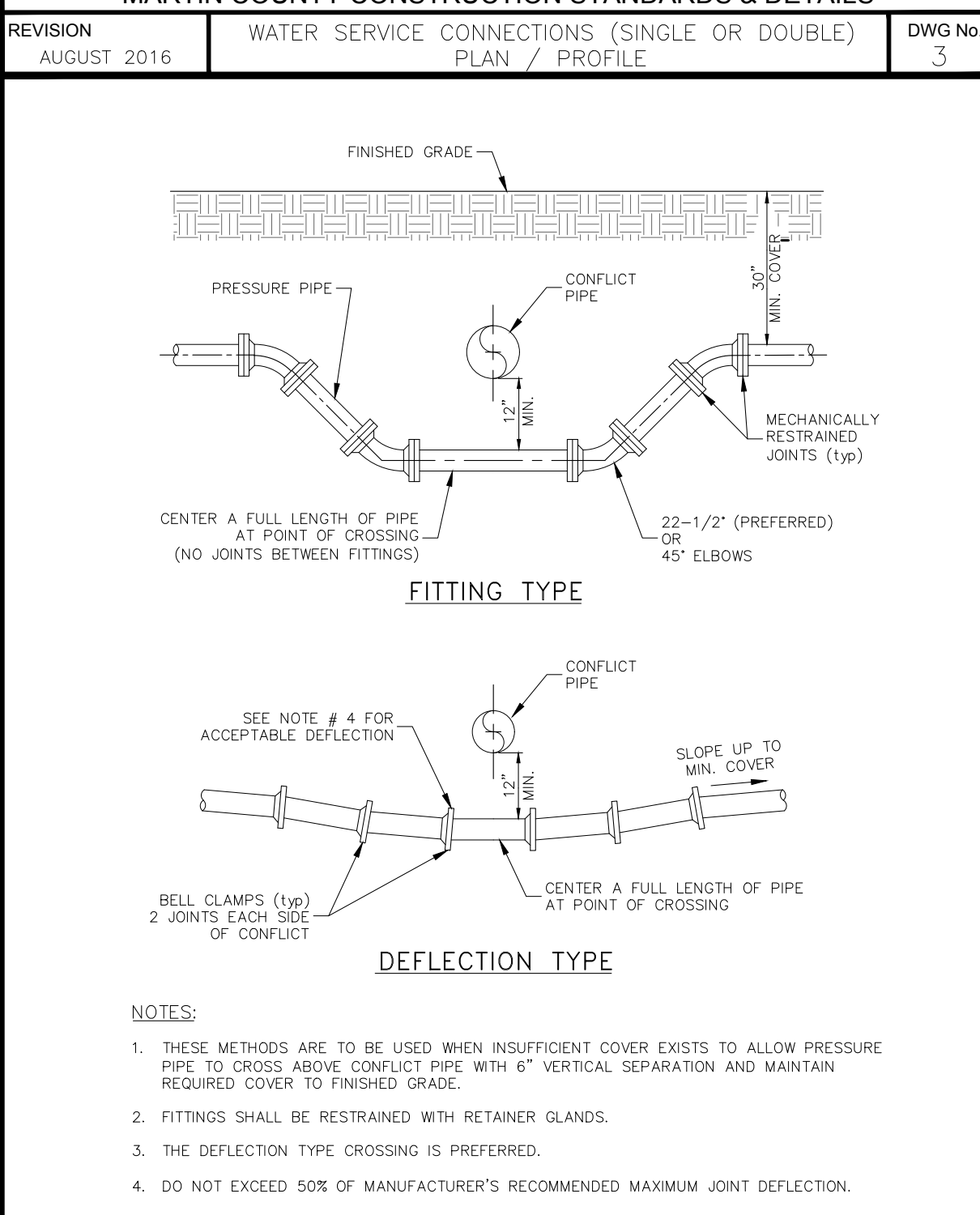
## 100% DESIGN

DATE	DESCRIPTION
JC	CB
DESIGN	DRAWN
	CHKD
SCALE: N/A	
JOB NO. 010513-018	
DATE 6/19/2020	
FILE NO. 010513-018-DET	
<b>D100</b>	



**MIN. LENGTH (IN FEET) OF PIPE TO BE RESTRAINED**  
(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND DUPRA TYPICAL RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2)

FITTING TYPE	PIPE SIZE									
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° HORIZ. BEND	14	20	25	30	35	45	54	62		
11.25° HORIZ. BEND	6	8	11	13	15	19	22	26		
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12		
11.25° HORIZ. BEND	1	2	3	3	3	4	4	5	6	
90° VERT. BEND	29	41	53	64	74	95	119	134		
UPPER BEND	7	10	13	16	19	25	30	35		
LOWER BEND	12	19	24	29	34	39	48	56		
45° VERT. BEND	3	4	6	7	8	10	12	15		
UPPER BEND	6	9	12	14	17	19	23	27		
LOWER BEND	3	4	6	7	8	9	11	13		
11.25° VERT. BEND	1	1	1	2	2	2	3	3		
UPPER BEND	32	45	59	70	83	107	129	151		
LOWER BEND	32	45	55	65	75	95	115	135		
IN-LINE VALVE	4	6	8	10	12	15	18	21		
TEE (BRANCH RESTRAINT)	10	16	21	28	34	43	52	61		
REDUCER (LARGER PIPE RESTRAINT)	10	16	21	28	34	43	52	61		



**811** KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

**NOTE:**  
MARTIN COUNTY UTILITIES DEPARTMENT'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION), ARE TO BE ADHERED TO AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.

**100% DESIGN**

MARTIN COUNTY PUBLIC WORKS - STANDARD DETAILS  
R-31A  
DATE: 04/23/19

MARTIN COUNTY PUBLIC WORKS - STANDARD DETAILS  
R-31B  
DATE: 04/23/19

**GENERAL NOTES AND SPECIFICATIONS**

FOR THE PURPOSE OF THE GENERAL NOTES BELOW, THE TERM DEPARTMENT SHALL MEAN "MARTIN COUNTY UTILITIES & SOLID WASTE DEPARTMENT".

- ALL CONNECTIONS TO EXISTING MAINS SHALL BE OBSERVED BY THE DEPARTMENT. VALVES ON EXISTING MAINS SHALL BE OPERATED BY DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVES AND VALVE SHALL BE PRESSURE TESTED PRIOR TO TAPPING. IF SERVICE MUST BE CUT OFF TO EXISTING CUSTOMERS, THE DEPARTMENT MUST HAVE THREE DAYS NOTICE TO MAKE NECESSARY NOTIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO ASSIST IN NOTIFICATIONS. IN THIS EVENT, CONTRACTOR SHALL BE READY TO PROCEED WITH AS MUCH MATERIAL PREASSEMBLED AS POSSIBLE AT THE SITE TO MINIMIZE THE LENGTH OF SERVICE INTERRUPTION. THE DEPARTMENT WILL POSTPONE A SERVICE CUT OFF IF THE CONTRACTOR IS NOT READY TO PROCEED ON SCHEDULE. SUCH CONNECTIONS SHALL BE MADE AT NIGHT TO MINIMIZE EFFECTS UNLESS OTHERWISE AUTHORIZED BY THE DEPARTMENT. NO CUSTOMER SHOULD BE WITHOUT SERVICE FOR MORE THAN FOUR HOURS.

LOCAL CHLORINATION WILL BE REQUIRED FOR ALL PIPE AND FITTINGS USED TO COMPLETE CONNECTIONS WITH POTABLE WATER.

- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF MARTIN COUNTY UTILITIES MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

- LOCATION OF PROPOSED FACILITIES WILL BE STAKED BY CONTRACTOR. CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE DEPARTMENT IN ADVANCE OF LAYOUT.

- PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS. IN THE EVENT THE SUPERINTENDENT WILL NOT BE PRESENT FOR ANY PERIOD OF TIME DURING CONTRACT WORK THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE IN WRITING TO THE DEPARTMENT, INCLUDING THE APPOINTMENT OF A QUALIFIED REPLACEMENT SUPERINTENDENT WHO WILL BE PRESENT DURING THE CONSTRUCTION. WORK SHALL NOT BE ALLOWED TO PROCEED UNLESS THE ASSIGNED SUPERINTENDENT IS PRESENT.

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE.

WARNING: EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN NOR IS THIS DRAWING TO BE CONSTRUED AS DEPICTING THE LOCATION OF ALL UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF LOCATION PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE, THEREFORE, FOR ALL DAMAGE AND REPAIR COSTS.

- DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN-CUT AREAS INCLUDING ROADS, TUNNELS, AND DRIVES SHALL BE REQUIRED AT EACH OPEN-CUT AT INTERVALS OF NOT MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP OF CONDUIT AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH MARTIN COUNTY UTILITIES CONSTRUCTION STANDARDS "TYPICAL TRENCH DETAIL" AND "FLEXIBLE PAVEMENT REPLACEMENT DETAIL". FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE SOIL. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO THE DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION OR MARTIN COUNTY ENGINEERING DEPARTMENT DEPENDING ON JURISDICTION. CONTRACTORS BID PRICE SHALL INCLUDE PAYMENT FOR ALL TESTS CONDUCTED BY AN INDEPENDENT TESTING LAB.

- ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS EXPENSE.

- ANY SIDEWALK, CURB AND GUTTER OR PAVEMENT DISTURBED, UNLESS OTHERWISE SHOWN ON PLANS, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi AT 28 DAYS AND ALL CONCRETE WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DETECTABLE WARNING SURFACES.

- ALL SOD IS TO BE PLACED FOR THE FULL WIDTH DISTURBED AT THE PER LINEAR FOOT UNIT PRICE FOR SOD. SOD SHALL BE DESIGNED TO MATCH EXISTING KIND UNLESS OTHERWISE SHOWN ON PLANS.

- CONTRACTOR SHALL PROVIDE PROPER BENDS TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE. COST OF BENDS NOT DESIGNATED ON PLANS SHALL BE INCLUDED WITH THE UNIT PRICE FOR PIPE.

- ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE.

- ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

- MAILBOXES MUST BE CAPABLE OF RECEIVING MAIL AT ALL TIMES.

- DEFLECT PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN DEFLECTION EXCEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.

- ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED. REFER TO MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN & CONSTRUCTION STANDARDS (LATEST EDITION).

- ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) WILL REQUIRE A DEWATERING PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE PRIOR TO BEGINNING OF CONSTRUCTION.

- THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.

- A U-2 PERMIT IS REQUIRED FOR ALL WORK WITHIN COUNTY RIGHT-OF-WAY. THIS PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE MARTIN COUNTY ENGINEERING DEPARTMENT. ALL COSTS PAYABLE BY THE CONTRACTOR. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. RIGHT-OF-WAY PERMIT REQUIRES DENSITY REPORTS FOR ALL BORE PIT LOCATIONS OR OPEN TRENCHES WITHIN 8 FEET OF THE EDGE OF PAVEMENT. CONTRACTOR IS RESPONSIBLE FOR ALL TESTS.

- ALL CONCRETE AND ASPHALT DRIVES MUST BE REPLACED FROM SAW CUT TO EDGE OF PAVEMENT.

- LOCATIONS OF FIRE HYDRANTS AND AIR RELEASE VALVES ARE APPROXIMATE ONLY. FINAL LOCATIONS WILL BE DETERMINED BY DEPARTMENT PERSONNEL IN FIELD.

- MAXIMUM LENGTH OF WATER MAIN AND FORCE MAIN PRESSURE TEST SHALL BE 1500 FEET. WATER SOURCE FOR FLUSHING, FILLING AND PRESSURE TESTING THE WATER MAIN SHALL BE FROM A TREATED SOURCE APPROVED BY THE DEPARTMENT.

- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE PIPES AND STRUCTURES, ETC.

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT THE EXISTING WATER SERVICES FROM DAMAGE AND REPAIR ANY BREAKS IMMEDIATELY.

- "RECORD DRAWINGS" SHALL INCLUDE FURNISHING MARTIN COUNTY UTILITIES DEPARTMENT WITH ALL INFORMATION NECESSARY FOR A COMPLETE SET OF RECORD DRAWINGS AS STIPULATED IN THE MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION).

- MECHANICALLY RESTRAIN LENGTHS, AS INDICATED ON DRAWING No. 20, ON EACH SIDE OF ALL BENDS AND AS INSTRUCTED IN MARTIN COUNTY UTILITIES DEPARTMENT SPECIFICATIONS. MECHANICAL RESTRAINTS SHALL BE EITHER MEG-ALUS, TYLER OR UNIFLANGE. THE CONTRACTORS BID PRICE FOR PIPE, GATE VALVES AND FITTINGS SHALL INCLUDE MECHANICAL RESTRAINT.

- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT UTILITIES AND SHORE TRENCH AS REQUIRED TO PROTECT AND MAINTAIN EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY EACH UTILITY PRIOR TO ATTEMPTING TO SUPPORT THEIR FACILITIES. IF THE UTILITY REQUIRES THAT ONLY THEIR CREWS SHALL BE ALLOWED TO SUPPORT THEIR FACILITIES, THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WORK AND PAY THE UTILITY FOR THEIR EXPENSES IF REQUIRED. ALL COSTS FOR THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE CONTRACTORS BID PRICE.

- ALL PRESSURE TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS.

**GENERAL NOTES AND SPECIFICATIONS (CONT.)**

- AIR RELEASE VALVE VAULT COVERS SHALL BE CONSTRUCTED PER DETAIL AS SHOWN IN THE DEPARTMENTS MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

- ALL WATER SERVICES SHALL BE DIRECTIONALLY DRILLED UNDER EXISTING PAVEMENT.

- VALVE STEM RISER SHALL BE REQUIRED WHERE OPERATING NUT DEPTH EXCEEDS 4 FEET. THE RISER SHALL BE BOLTED TO THE VALVE NUT. METHOD AND MATERIALS SHALL BE APPROVED BY THE DEPARTMENT. COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACTORS BID UNIT PRICE FOR GATE VALVES.

- THE CONTRACTOR SHALL CLEAN MAINS USING APPROVED POLYURETHANE PIG(S). TEMPORARY CLEANING STATIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CLEANING PLAN SHOWING METHOD OF FILLING AND CLEANING MAINS PRIOR TO START OF CONSTRUCTION. THE CLEANING PLAN SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO CONSTRUCTION. ALL COSTS FOR FILLING AND CLEANING SHALL BE AT THE CONTRACTORS EXPENSE.

- A FLORIDA DEPARTMENT OF TRANSPORTATION PERMIT IS REQUIRED FOR ALL WORK, EXCEPT PERPENDICULAR CONNECTIONS, WITHIN THE STATE RIGHT-OF-WAY. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

- THE CONTRACTOR SHALL INSTALL TESTING POINTS FOR PRESSURE & BACTERIOLOGICAL TESTING OF WATER MAINS. THE CONTRACTOR SHALL INSTALL AND REMOVE AND PLUG CORP. STOPS PER MARTIN COUNTY UTILITIES STANDARDS "SAMPLE POINT DETAIL". THE LOCATION OF TEST POINTS SHALL BE APPROVED BY THE DEPARTMENT.

- WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN C-651.

- WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT AWWA, FDEP AND NSF STANDARDS.

- MINIMUM COVER TO FINISHED GRADE OVER WATER MAINS SHALL BE 30 INCHES UP TO 8" DIAMETER; 10" OR LARGER SHALL HAVE 36" COVER OR GREATER TO PROVIDE A MINIMUM 18" COVER OVER OPERATING NUT OF GATE VALVES.

- ALL MAINS SHALL BE TESTED FOR LEAKAGE. WATER SHALL BE SUPPLIED TO THE MAIN AND PUMPED TO THE REQUIRED 150 PSI PRESSURE. THE MAIN TESTED SHALL EITHER BE ISOLATED FROM PRESENTLY POTABLE LINES OR PROTECTED FROM LEAKAGE BY A DOUBLE VALVE ARRANGEMENT.

- NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.

- THE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY TESTING PROCEDURES. AFTER FLUSHING IS COMPLETED, LINE PRESSURE SHALL BE APPLIED TO THE WATER SYSTEM TO DETERMINE IF ANY MAJOR DEFECTS ARE PRESENT. THE COMPLETE WATER SYSTEM SHALL THEN BE TESTED AT A PRESSURE OF 150 PSI FOR A PERIOD OF NOT LESS THAN TWO HOURS. THE DEPARTMENT MAY, AT ITS DISCRETION, INCREASE THE PERIOD TO FOUR HOURS. MAXIMUM LENGTH OF LINE TO BE TESTED AT ONE TIME SHALL NOT EXCEED 1500 LINEAR FEET. AN OIL FILLED PRESSURE GAUGE UP TO 200 PSI AT 2 POUND INCREMENTS SHALL BE USED FOR ALL PRESSURE TESTS. NO VISIBLE MOVEMENT OF THE SYSTEM SHALL OCCUR AND LEAKAGE SHALL NOT EXCEED:

$$Q = \frac{S \times D \times L \times P}{148,000}$$

WHERE: S = LENGTH OF LINE TESTED (FEET)  
 D = SIZE OF PIPE (DIAMETER IN INCHES)  
 P = DESIGN TEST PRESSURE (PSI)  
 Q = ALLOWABLE LOSS IN GALLONS/HOUR

IF THE CONTRACTORS WOULD LIKE TO TEST MORE THAN 1500 LINEAR FEET AT A TIME, THEN ZERO LOSS WILL BE REQUIRED.

- LIMITS OF SODDING ARE AT OPEN CUT WATER MAIN INSTALLATIONS.

**STANDARD WATER/SEWER SEPARATION STATEMENT**

WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN C-651.

62-555.314 LOCATION OF PUBLIC WATER SYSTEM MAINS.  
 FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.

- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C.

- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

- SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.

- NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

- EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE, WHETHER IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE THE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE). THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E., THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFLICT MANHOLES), BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND MUST PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION THE FOLLOWING INFORMATION:

- TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.

- A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.

- ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-SUBPARAGRAPHS A THROUGH D, BELOW.
  - EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.
  - WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).
  - EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.
  - GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

- SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

- EXCEPTIONS, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:

- WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE:

- USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;

- USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR

- USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.
  - WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:

- USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND

- USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

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**NOTE:**

MARTIN COUNTY UTILITIES DEPARTMENT'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION), ARE TO BE ADHERED TO AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.



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**PORT SALERNO - NEW MONROVIA  
 PHASE I - (WATER MAIN EXTENSION)**

**GENERAL NOTES**

PROJECT NO  
 010513-01-018

JEREMY A. COVEY, P.E.  
 FL. REGISTRATION NO.  
 75472

PLAN STATUS

DATE	DESCRIPTION
JC	CB JC
DESIGN	DRAWN CHKD

SCALE: **NA**

JOB No. **010513-018**

DATE **6/19/2020**

FILE No. **010513-018-DET**

SHEET **D101**

**GENERAL NOTES**