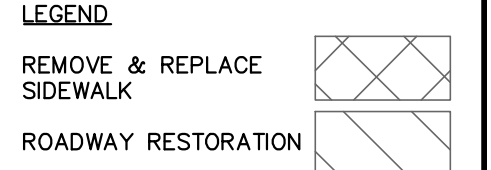
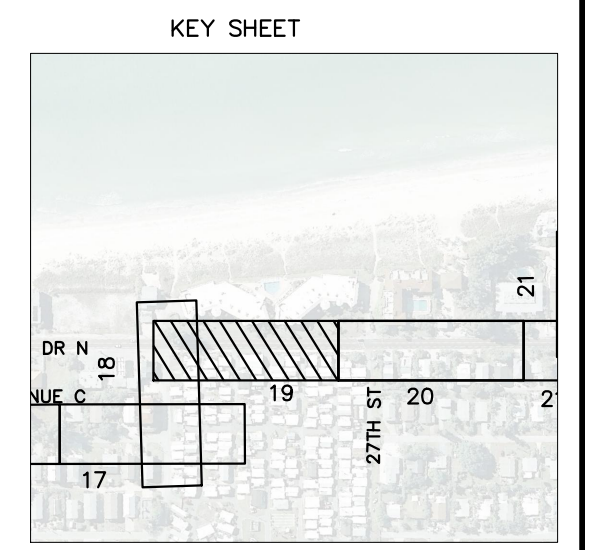
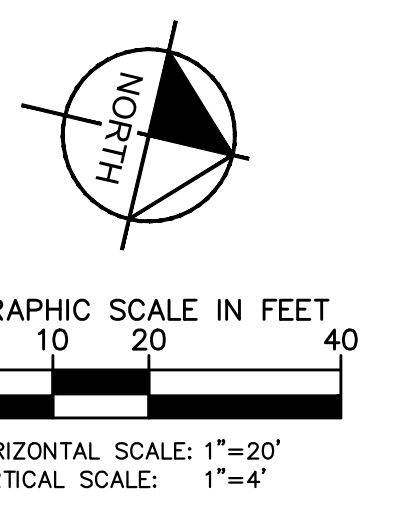
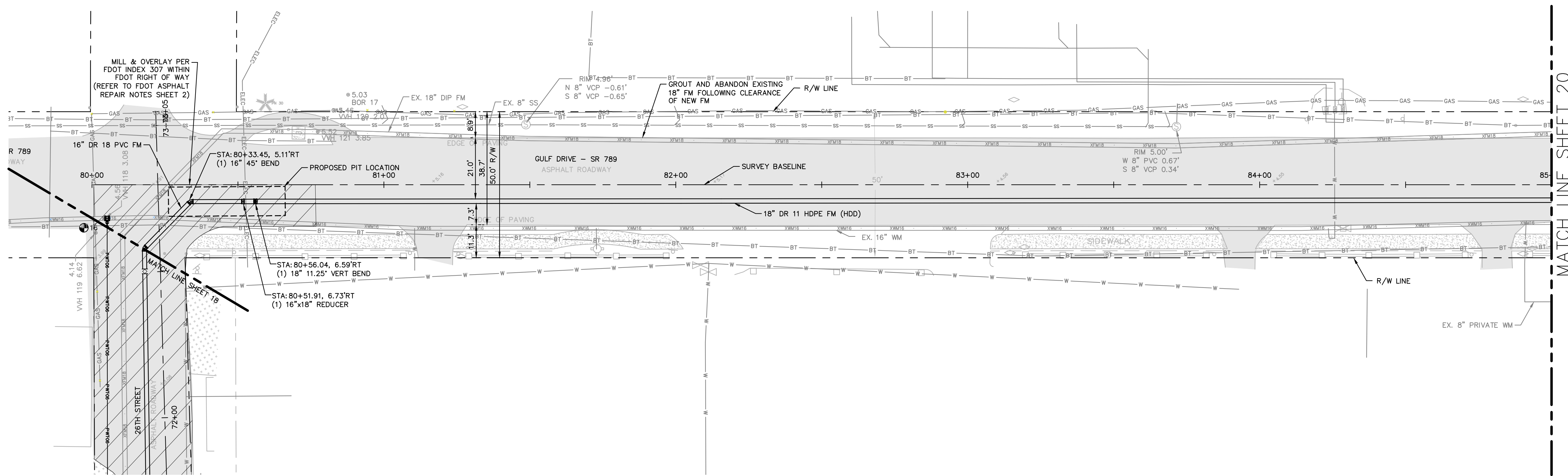


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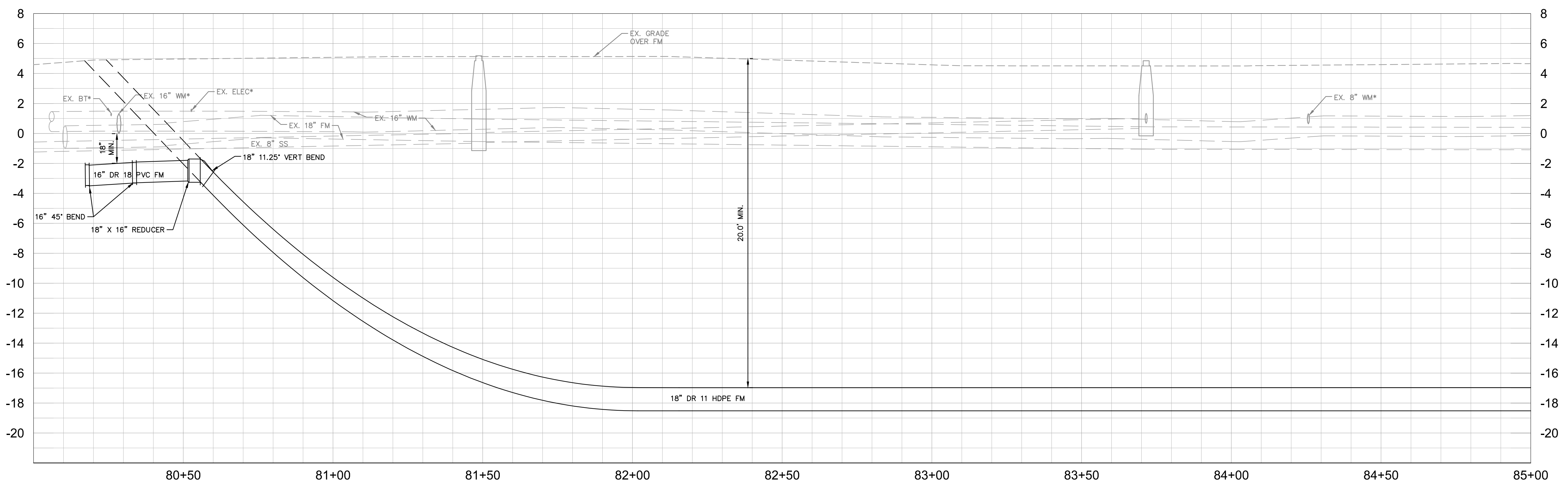


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PHONE: 813-620-1460
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400012
DATE 2/14/2017
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY JRT
CHECKED BY WEW

Manatee County
FLORIDA

**FORCE MAIN 5
REHABILITATION**

MANATEE COUNTY

LICENSED PROFESSIONAL

W. WADE WOOD, P.E.

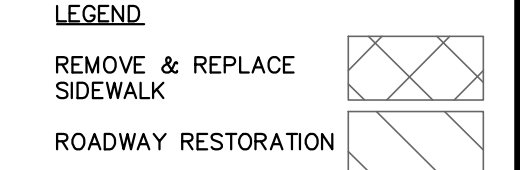
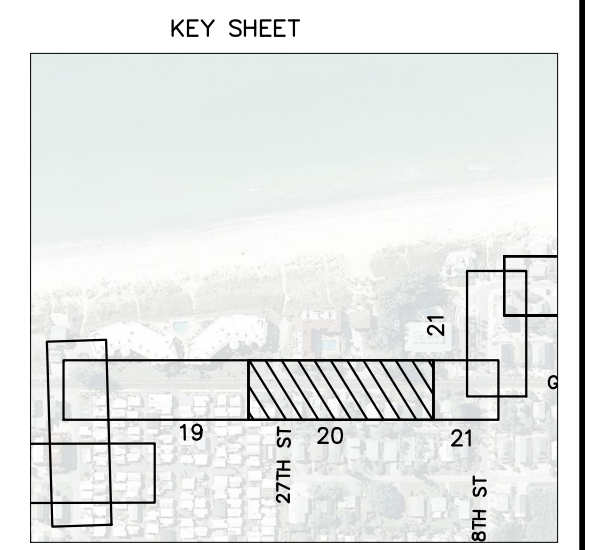
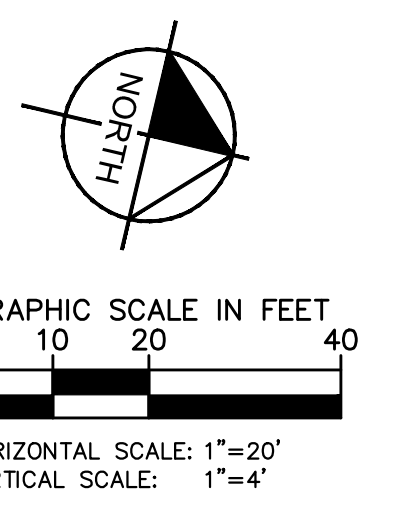
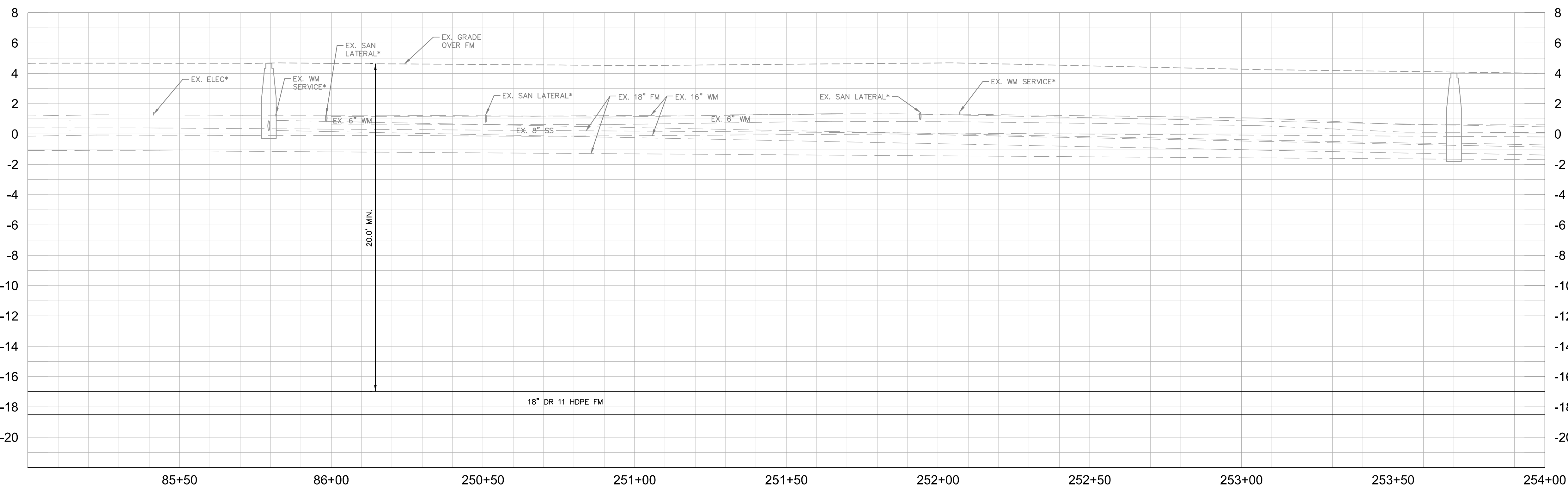
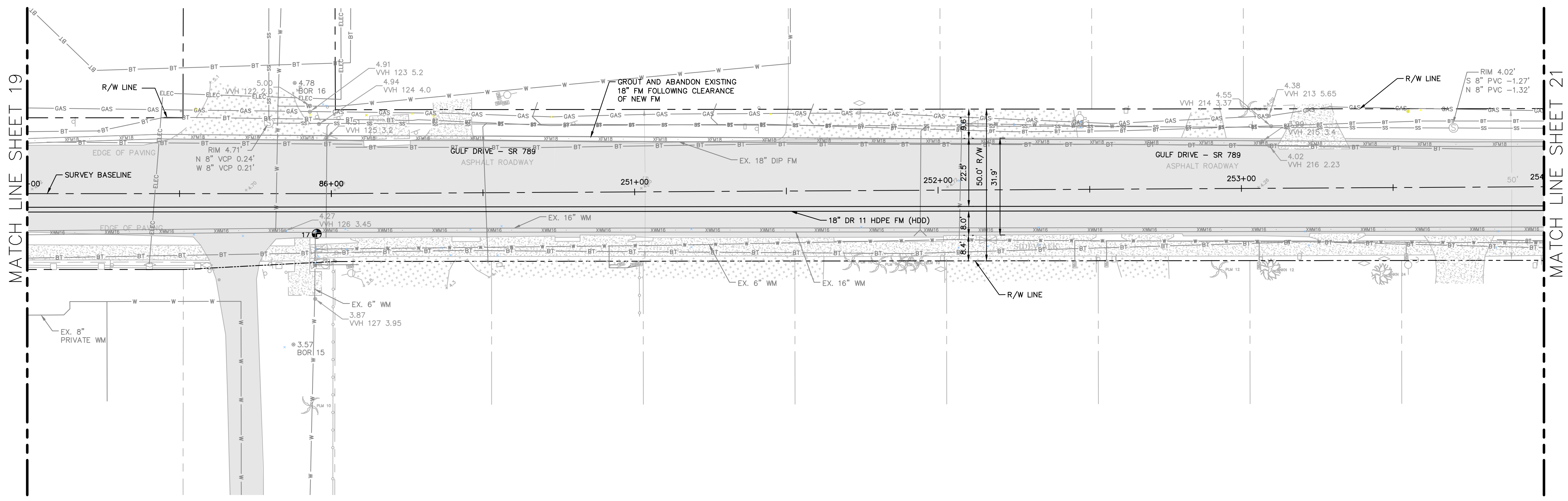
FL LICENSE NUMBER
69051

FL DATE:

**PLAN AND PROFILE GULF
DRIVE BTW 26TH & 27TH**

SHEET NUMBER
19

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KHA PROJECT
 148400012
 DATE
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 SCALE AS SHOWN
 DESIGNED BY WWW
 DRAWN BY JRT
 CHECKED BY WEW

Manatee County
FLORIDA

**FORCE MAIN 5
 REHABILITATION**

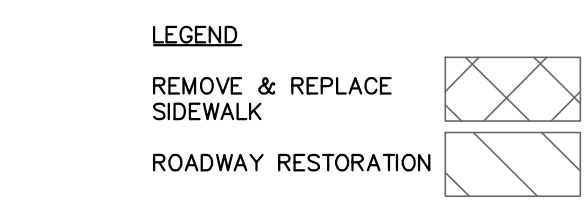
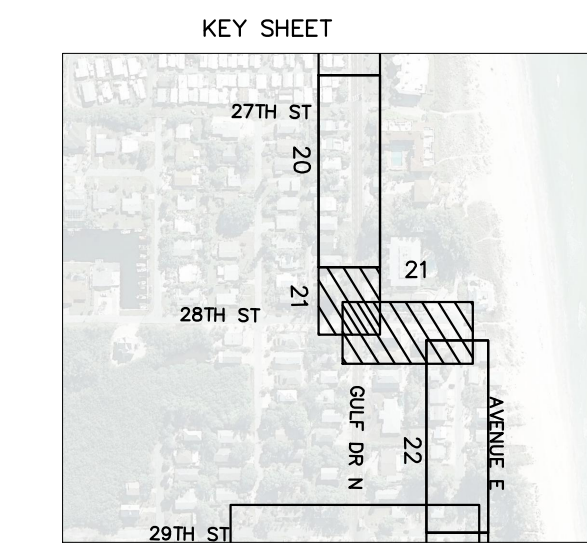
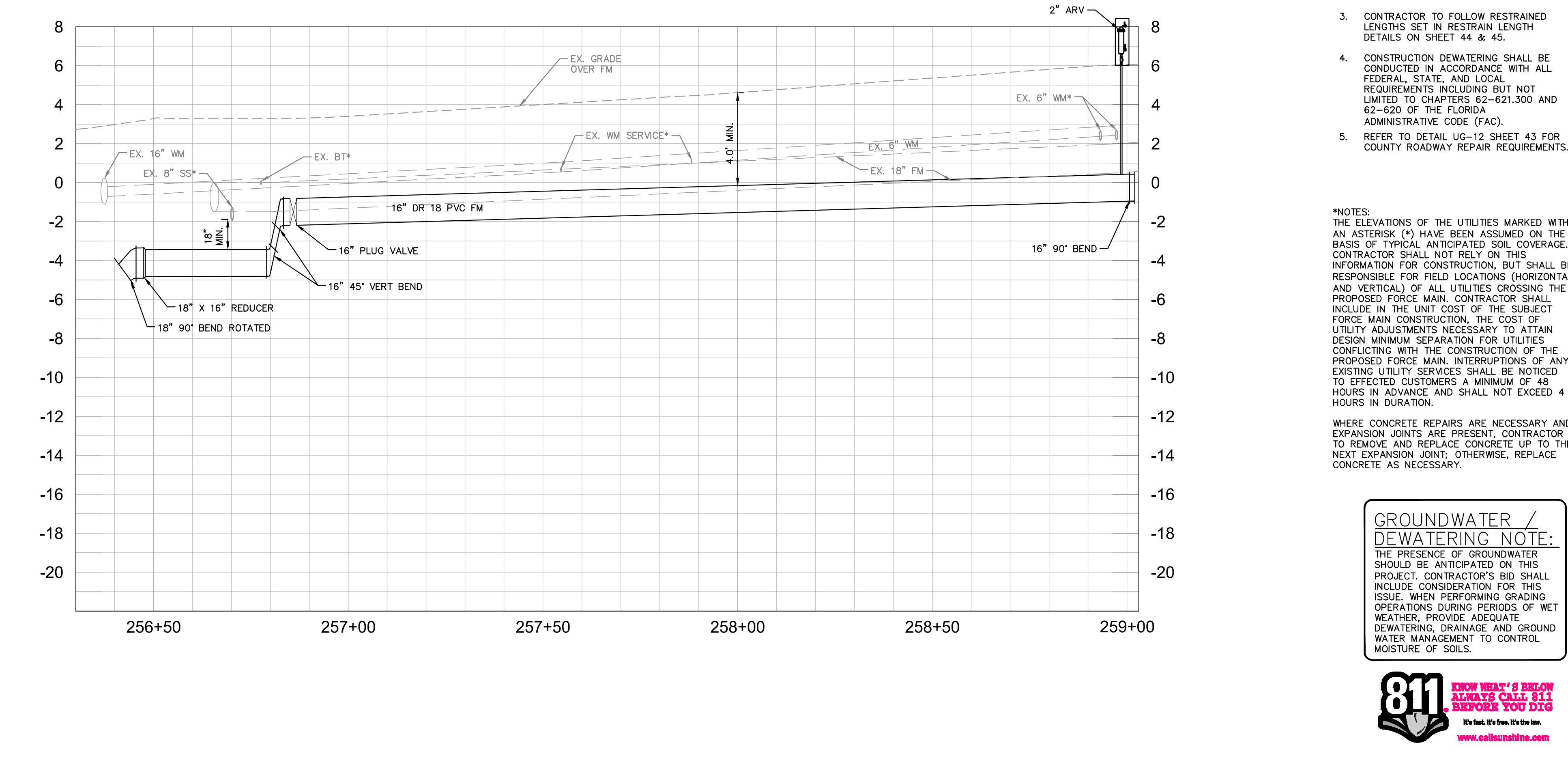
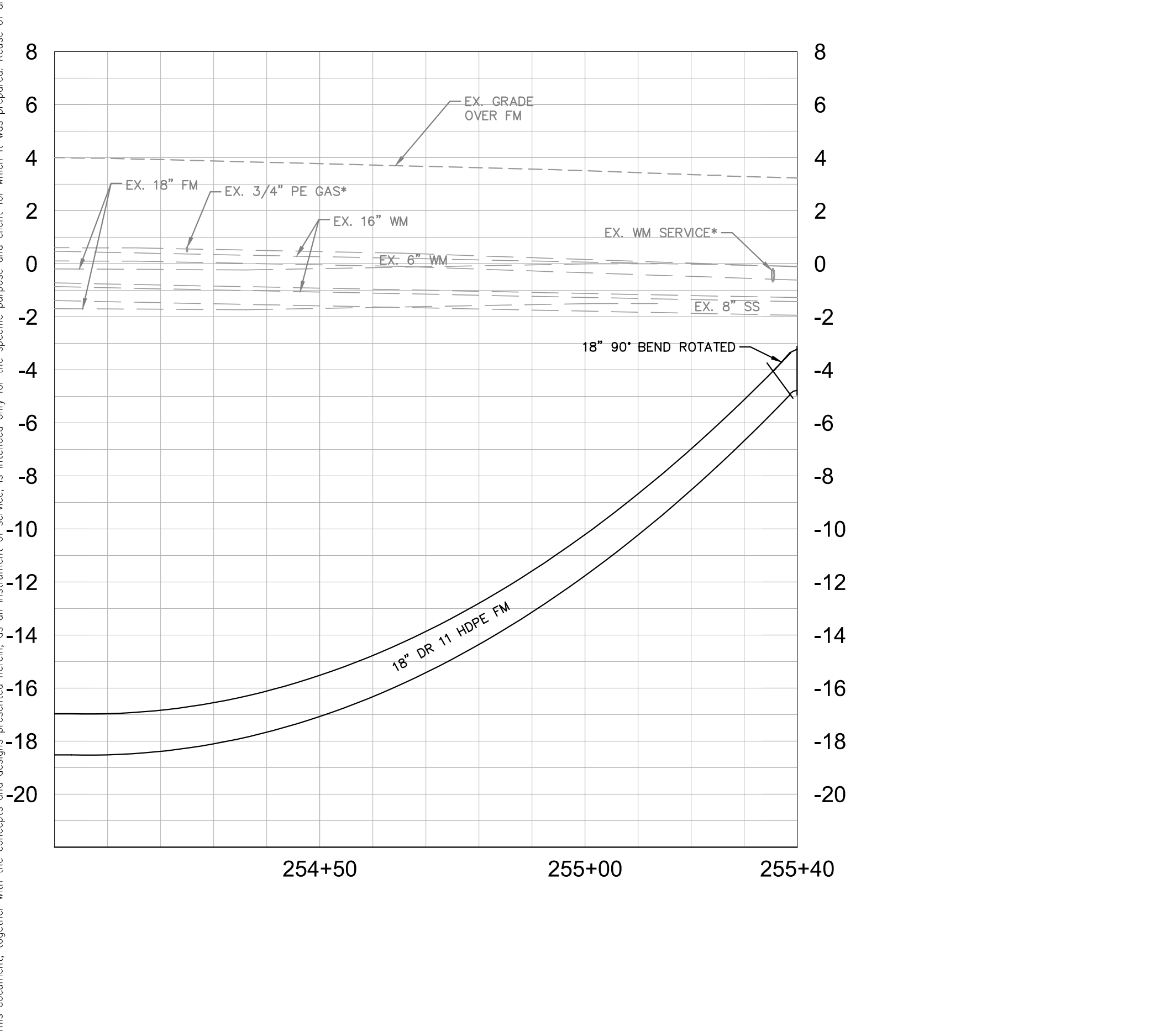
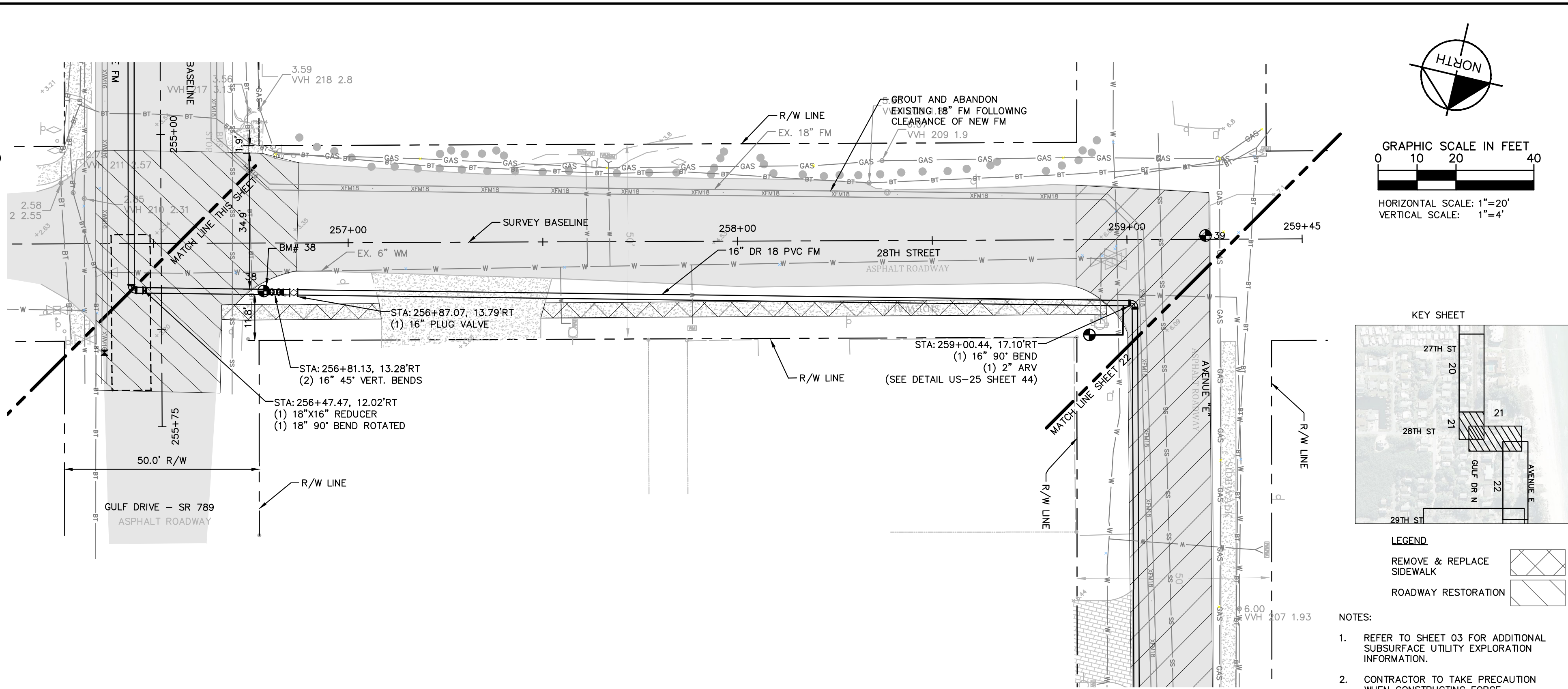
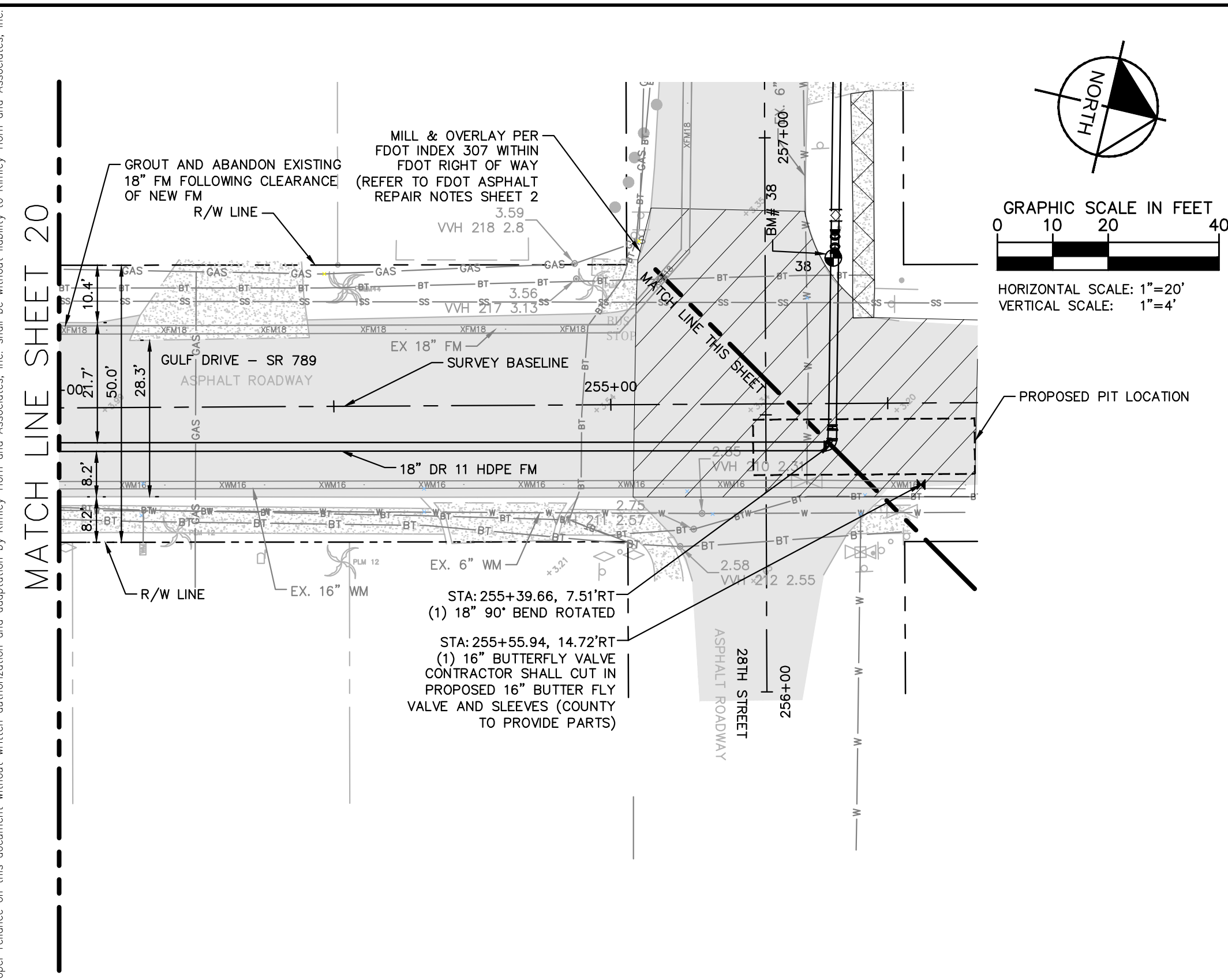
MANATEE COUNTY

LICENSED PROFESSIONAL
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 FL LICENSE NUMBER
 69051

**PLAN AND PROFILE GULF
 DRIVE BTW 27TH & 28TH**

SHEET NUMBER
20

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KHA PROJECT 148400012
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Manatee County
FLORIDA

**FORCE MAIN 5
 REHABILITATION**

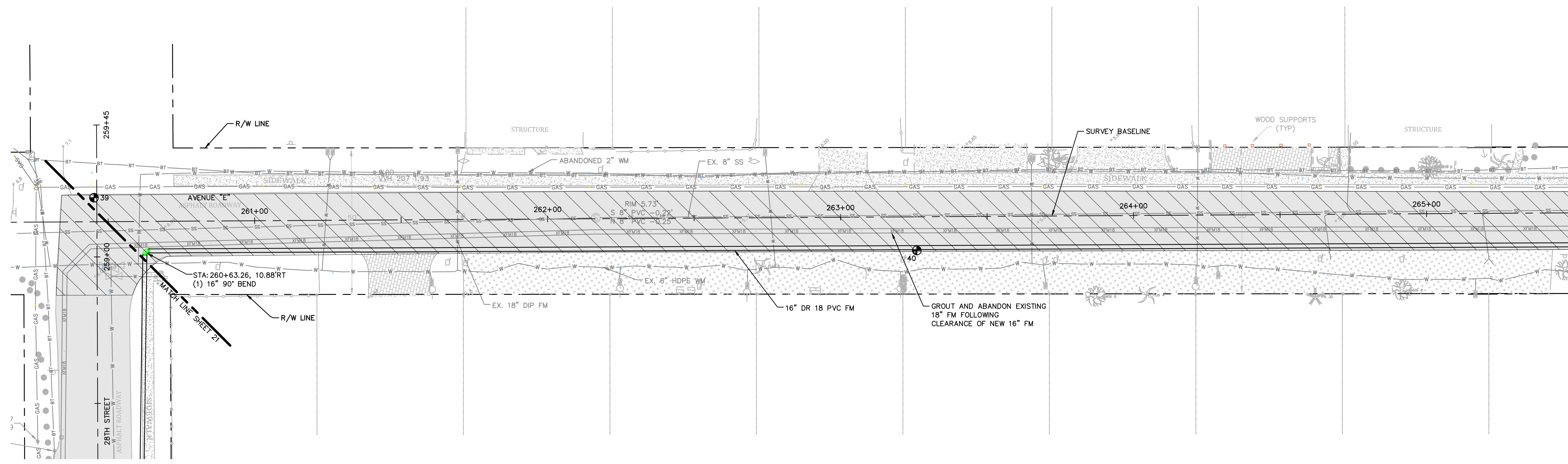
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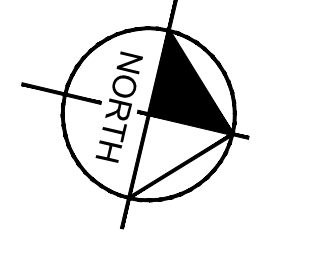
**PLAN AND PROFILE 28TH
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SHEET NUMBER
21

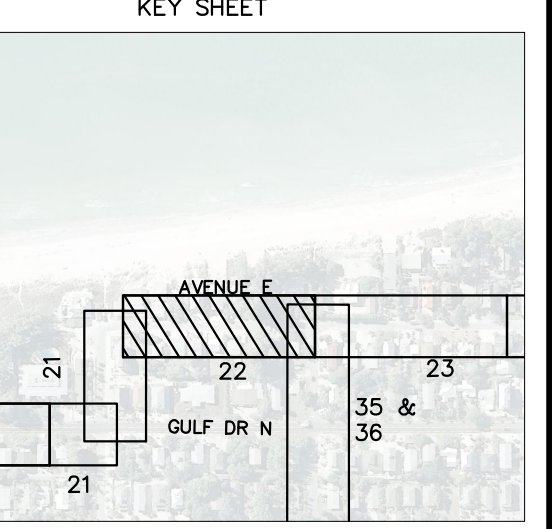
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MATCH LINE SHEET 23



GRAPHIC SCALE IN FEET
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 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'

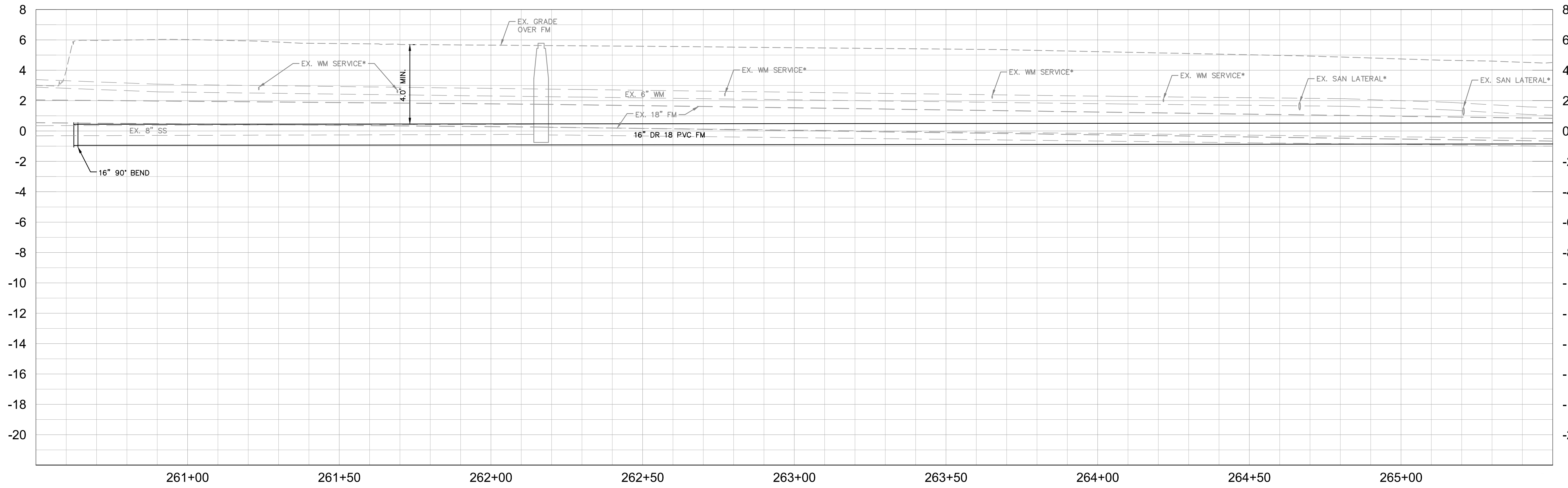


LEGEND
 REMOVE & REPLACE SIDEWALK
 ROADWAY RESTORATION

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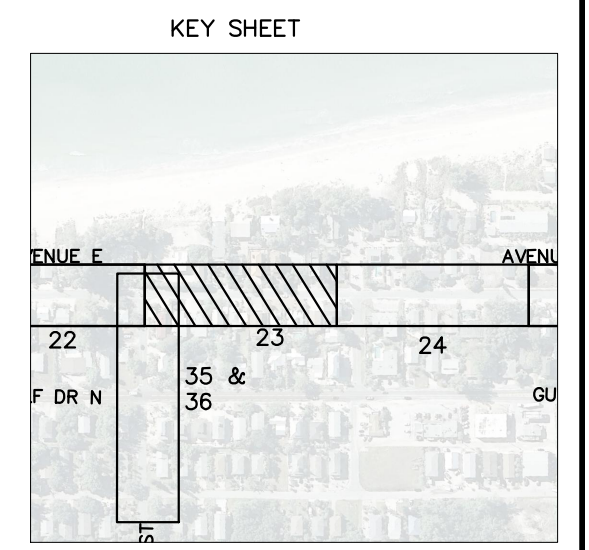
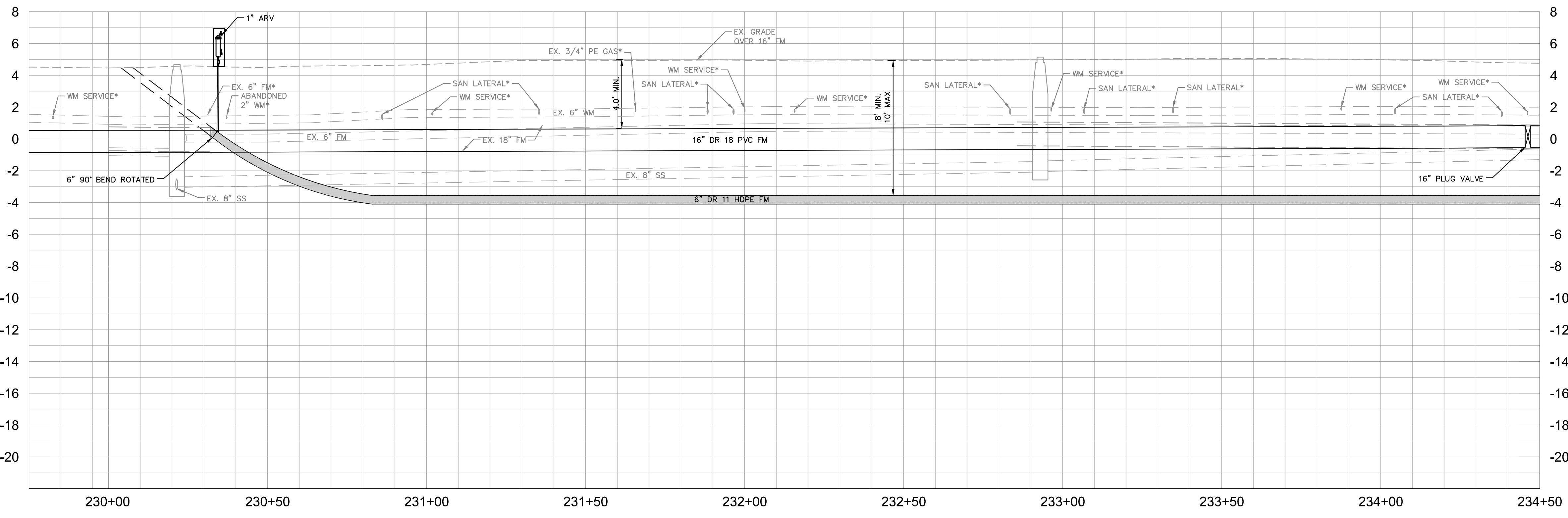
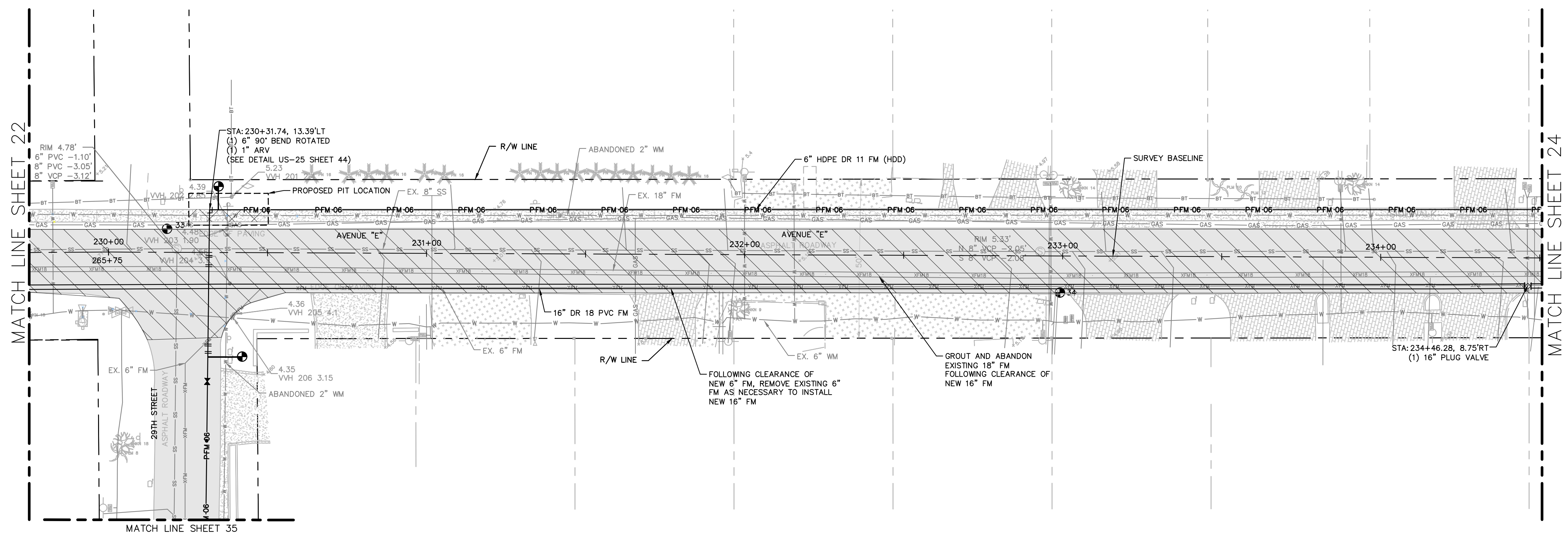
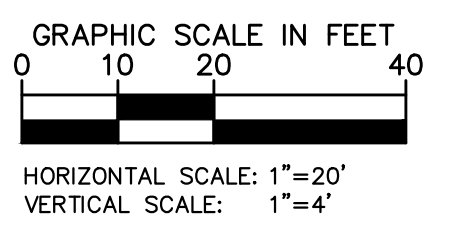
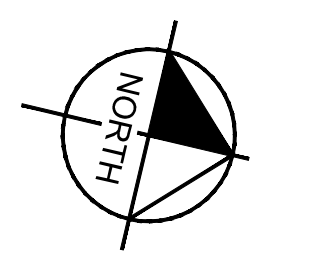
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PLAN AND PROFILE AVENUE E

SHEET NUMBER
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LEGEND

REMOVE & REPLACE SIDEWALK	
ROADWAY RESTORATION	

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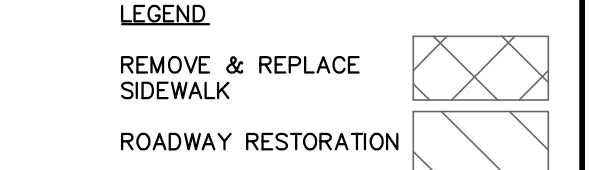
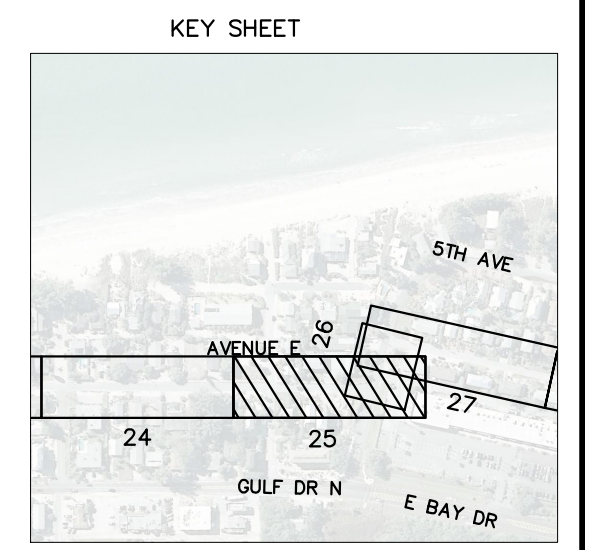
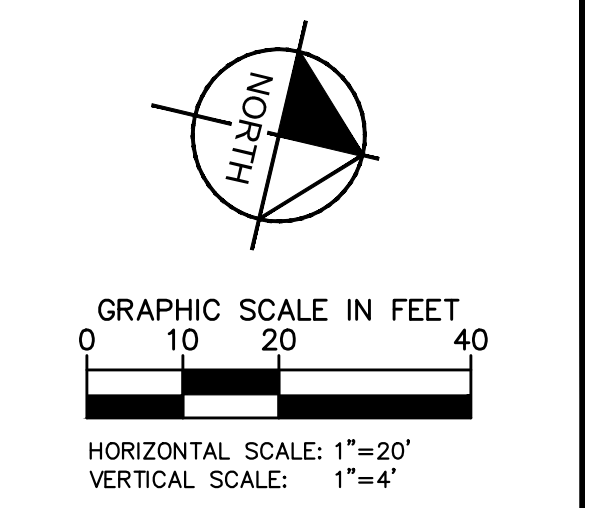
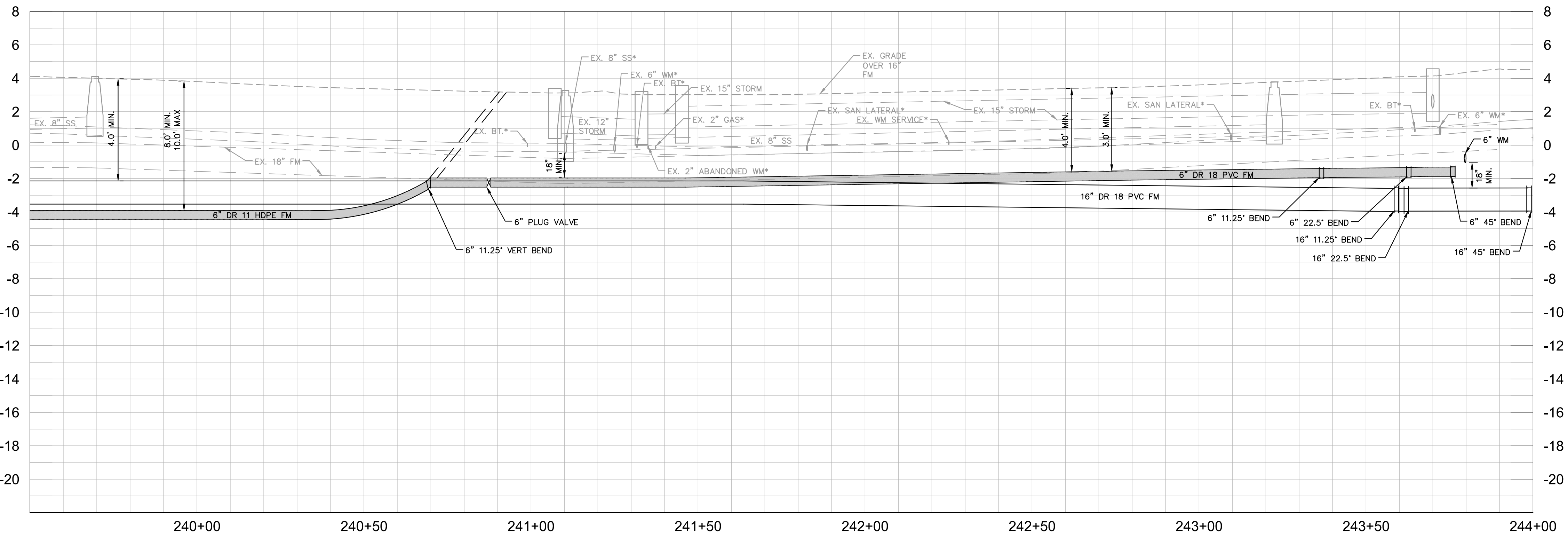
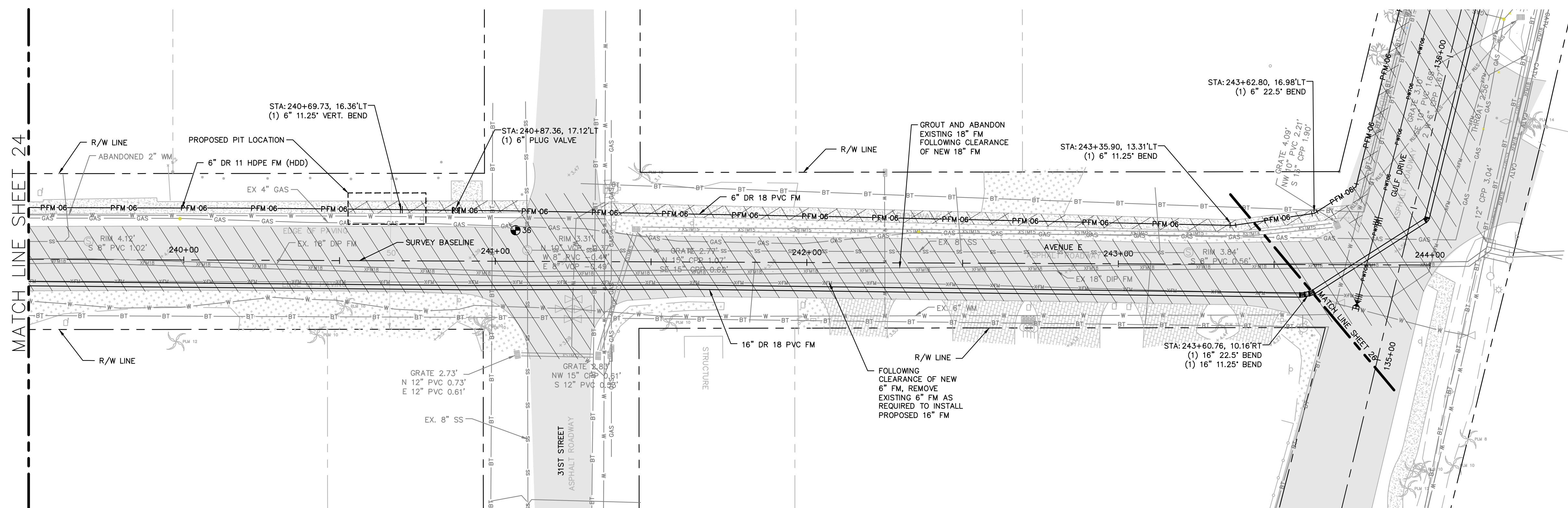
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**PLAN AND PROFILE
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FORCE MAIN 5 REHABILITATION

MANATEE COUNTY

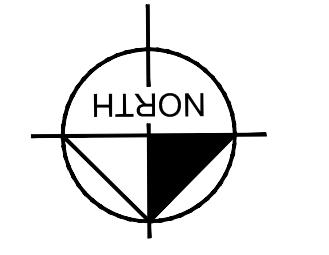
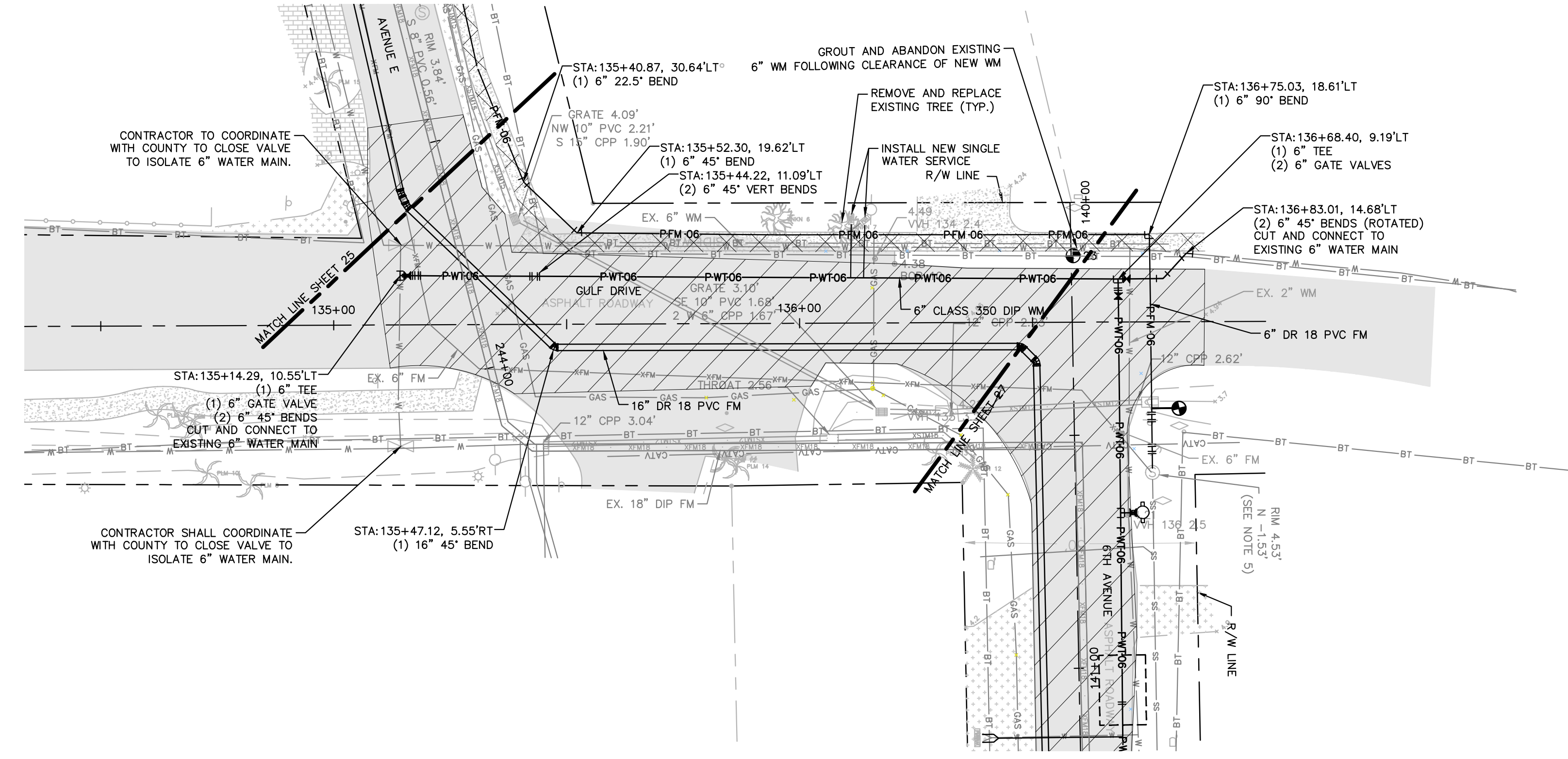
LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER 69051

PLAN AND PROFILE AVENUE E

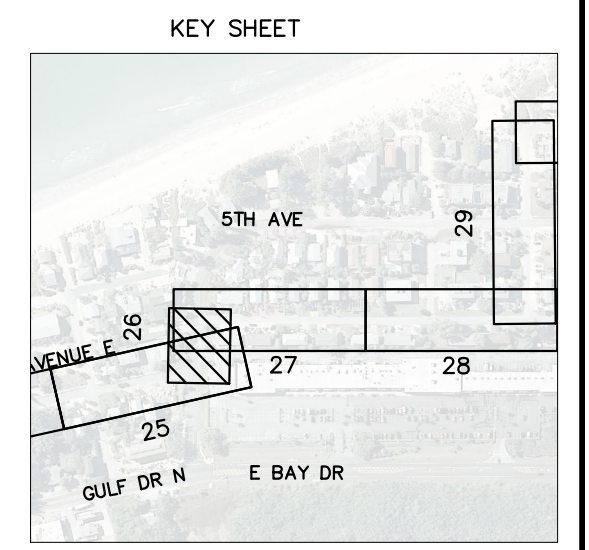
FL DATE:

SHEET NUMBER
25

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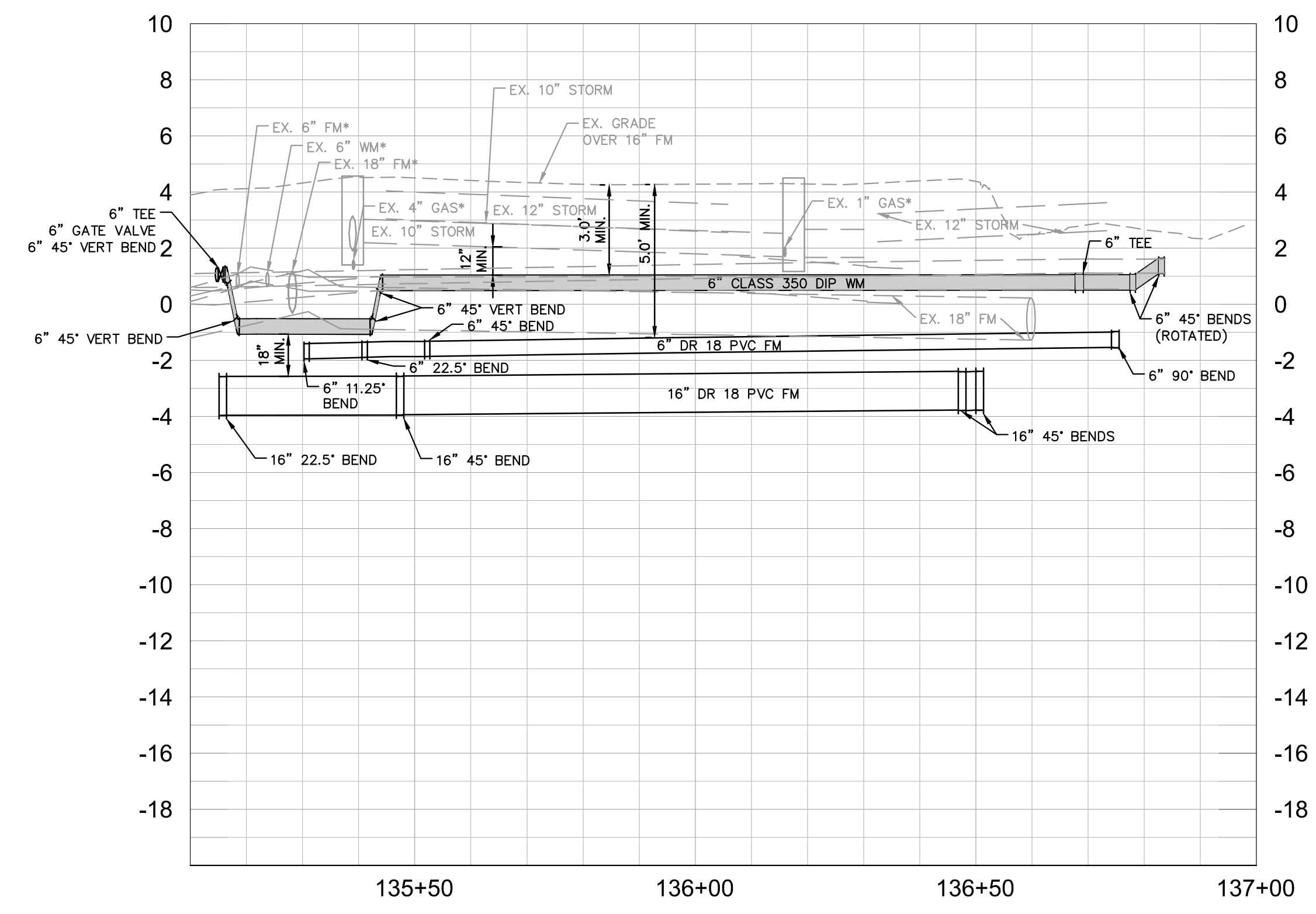
GRAPHIC SCALE IN FEET
 0 10 20 40
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'



LEGEND
 REMOVE & REPLACE SIDEWALK
 ROADWAY RESTORATION

- NOTES:
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No.	REVISIONS	DATE	BY

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 655 NORTH FRANKLIN STREET, SUITE 150, TAMPA, FL 33602
 PHONE: 813-620-1460
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400012
DATE 2/14/2017
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY JRT
CHECKED BY WEW

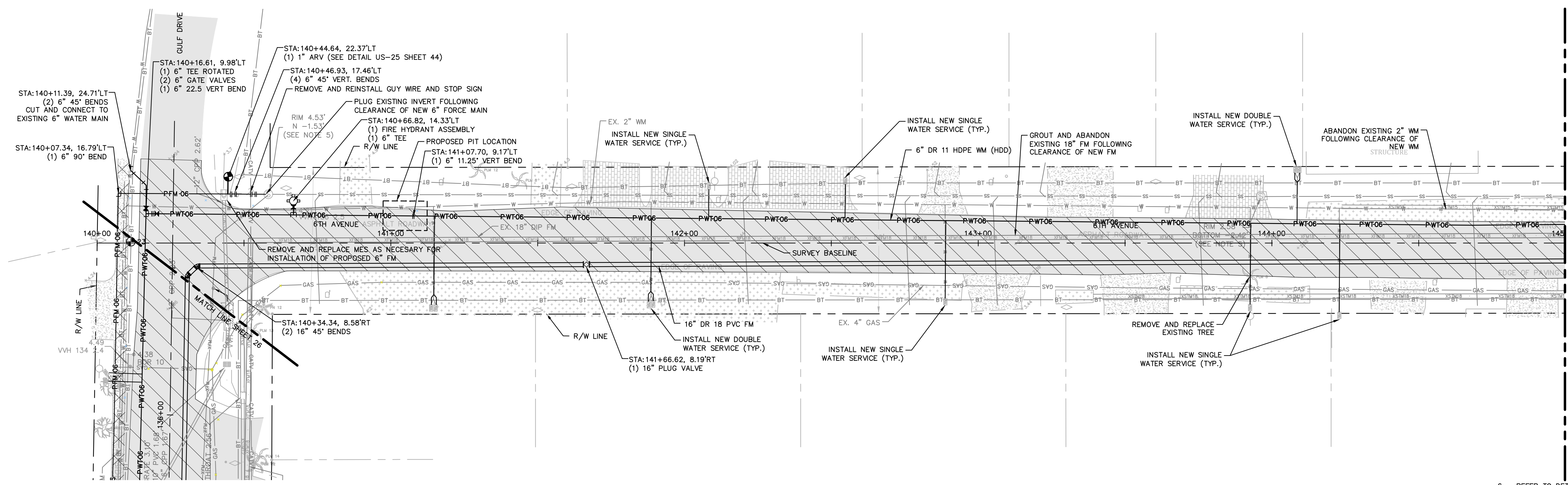
Manatee County FLORIDA
FORCE MAIN 5 REHABILITATION
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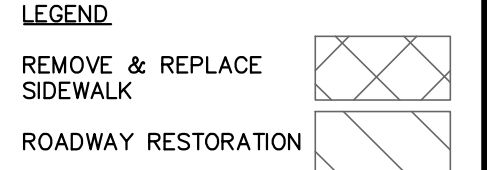
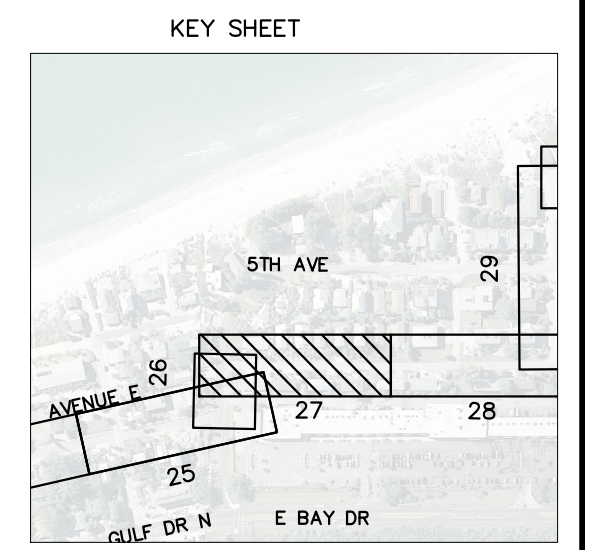
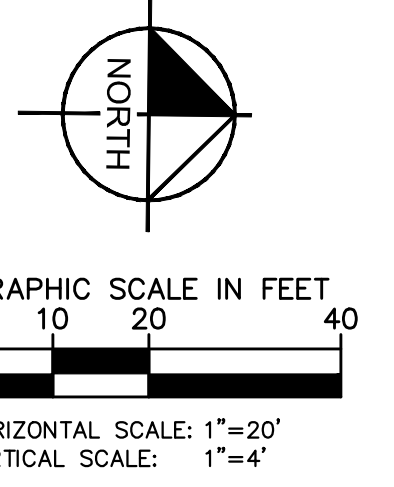
PLAN AND PROFILE GULF DRIVE & 6TH AVE

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26

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MATCH LINE SHEET 28

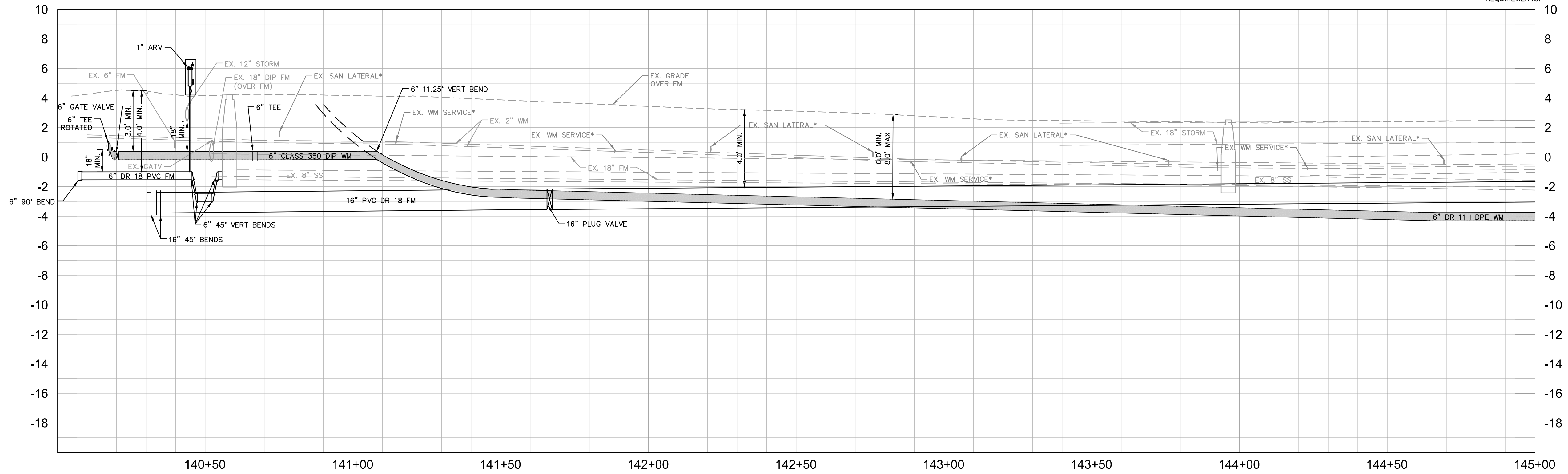


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6. REFER TO DETAIL UG-12 SHEET 43 FOR COUNTY ROADWAY REPAIR REQUIREMENTS.

No.	REVISIONS	DATE	BY

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KHA PROJECT
148400012
DATE
2/16/2017
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY JRT
CHECKED BY WEW

Manatee County
FLORIDA

**FORCE MAIN 5
REHABILITATION**

MANATEE COUNTY

LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER
69051

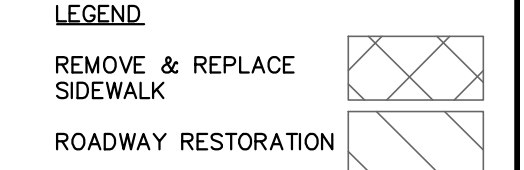
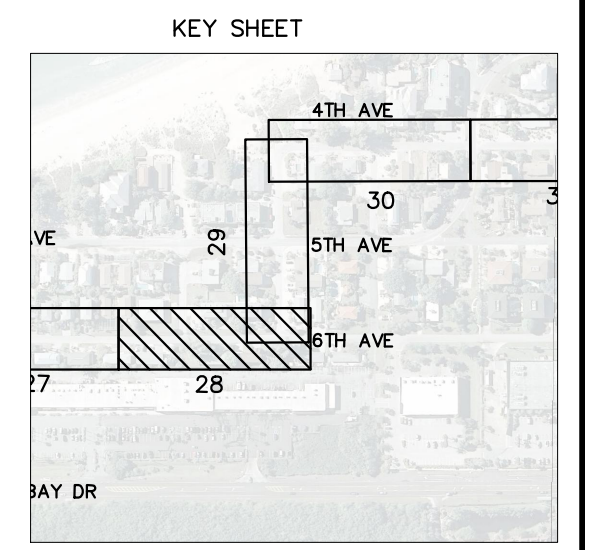
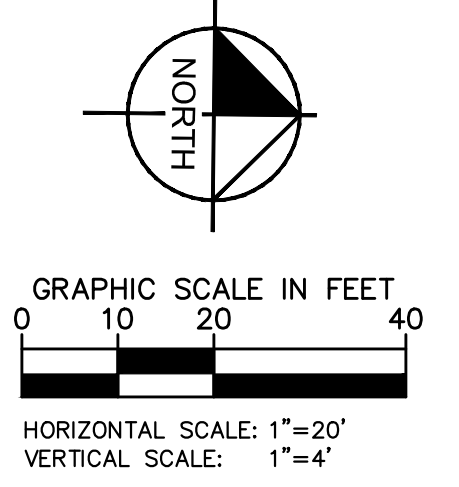
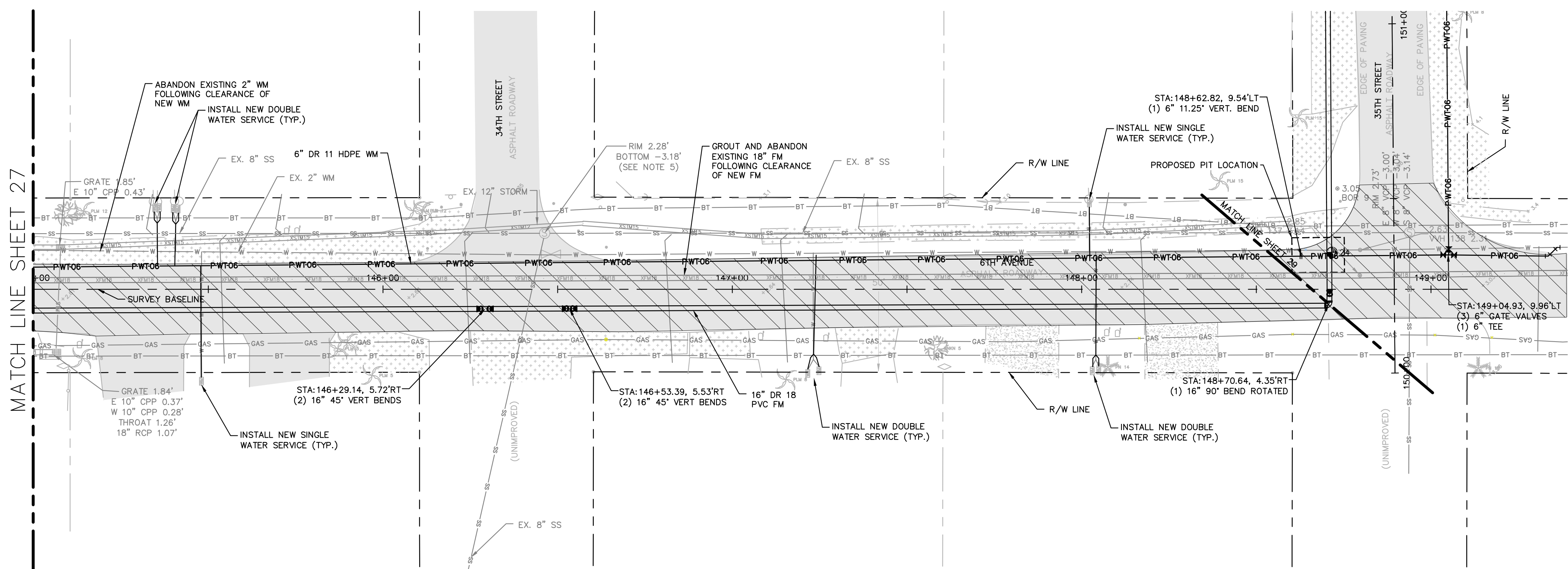
**PLAN AND PROFILE 6TH
AVENUE**

FL DATE:

SHEET NUMBER
27



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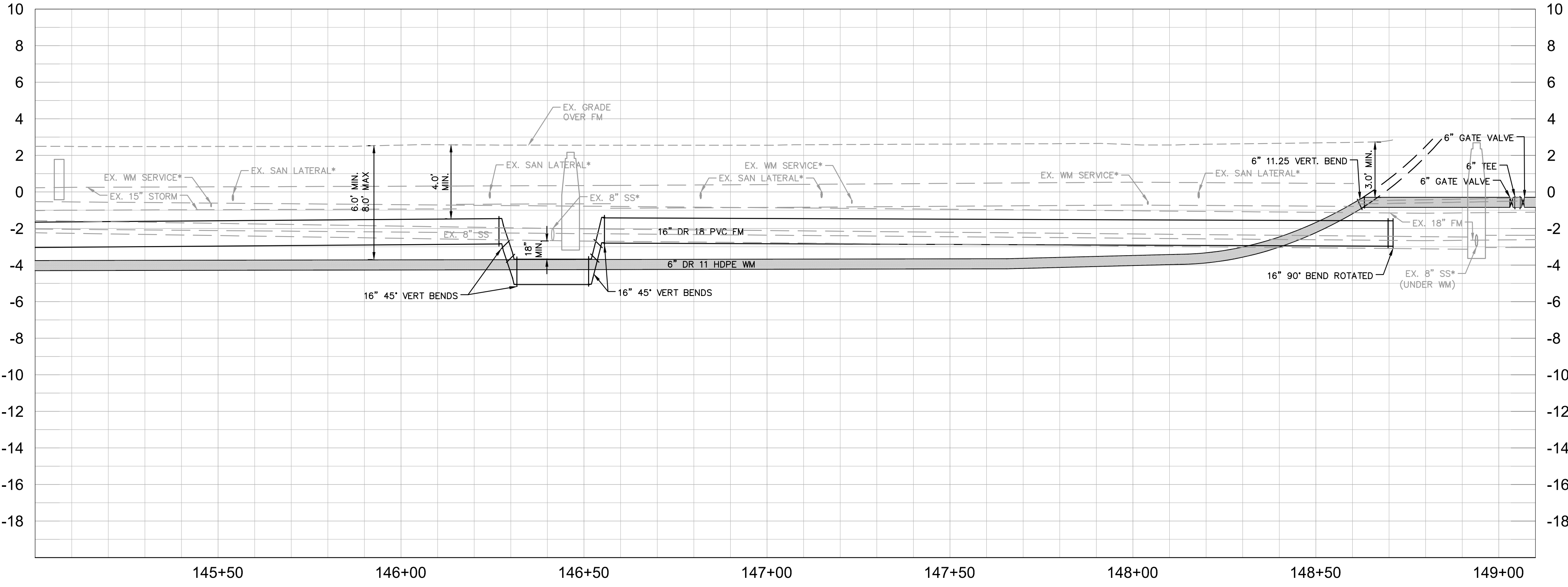


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KHA PROJECT 148400012
DATE 2/14/2017
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY JRT
CHECKED BY WEW

Manatee County
 FLORIDA

FORCE MAIN 5 REHABILITATION

MANATEE COUNTY

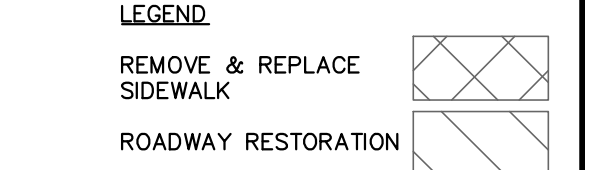
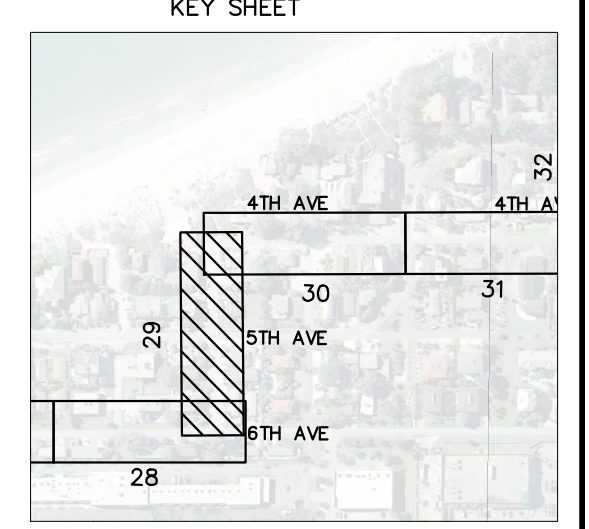
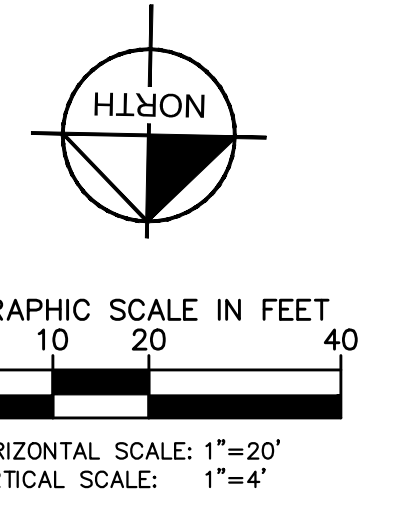
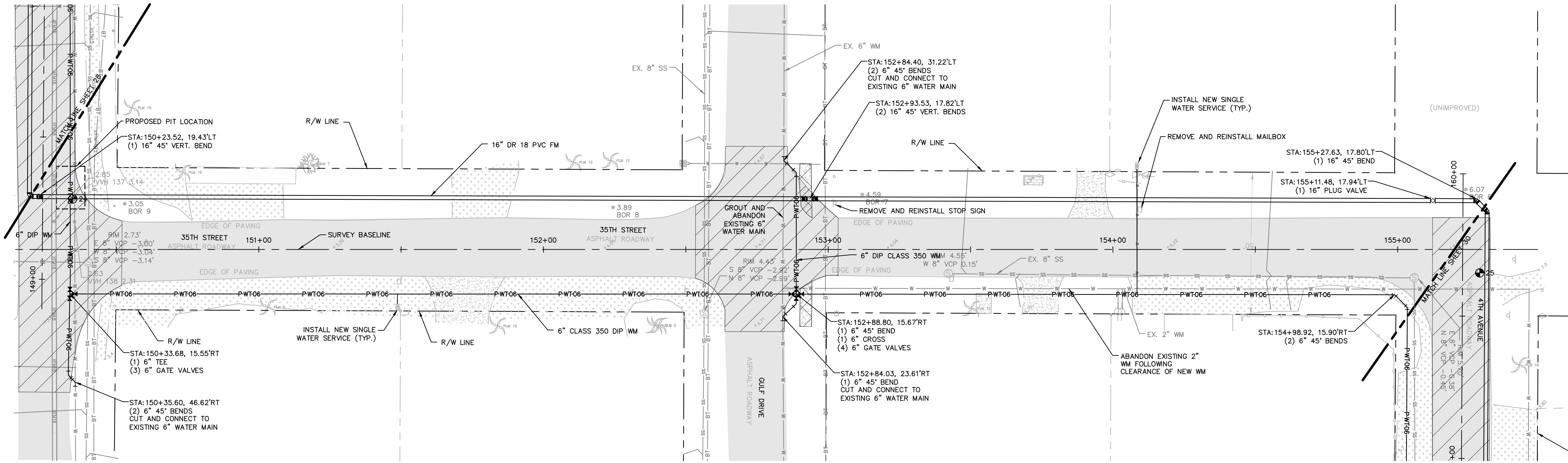
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W. WADE WOOD, P.E.
FL LICENSE NUMBER 69051
FL DATE:

PLAN AND PROFILE 6TH AVENUE

SHEET NUMBER
28



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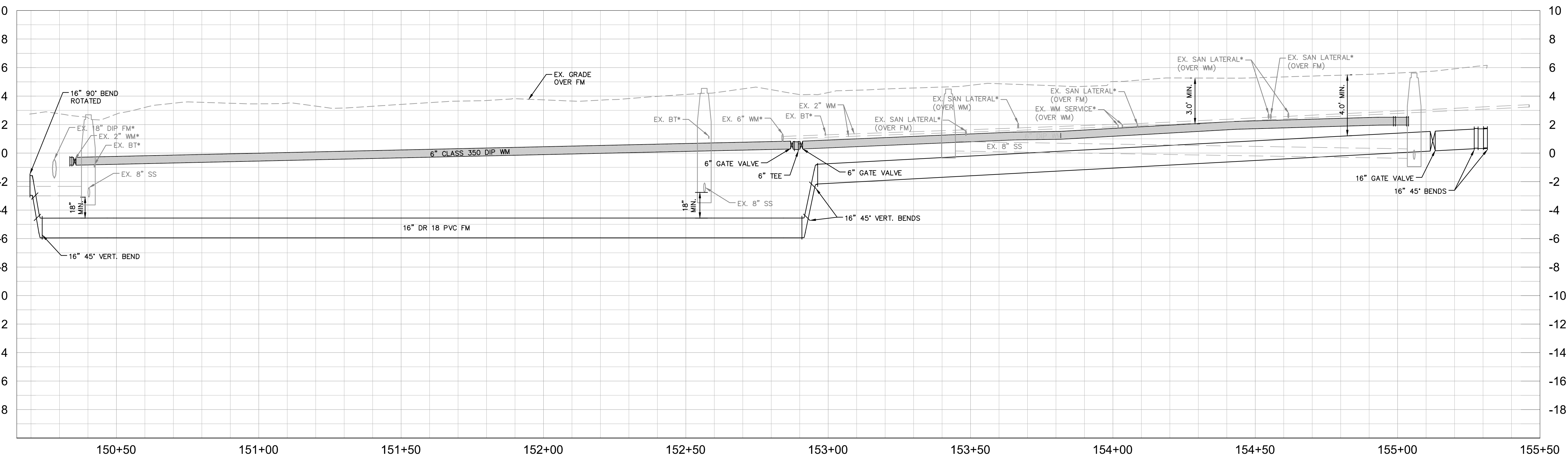


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Manatee County
FLORIDA

FORCE MAIN 5 REHABILITATION

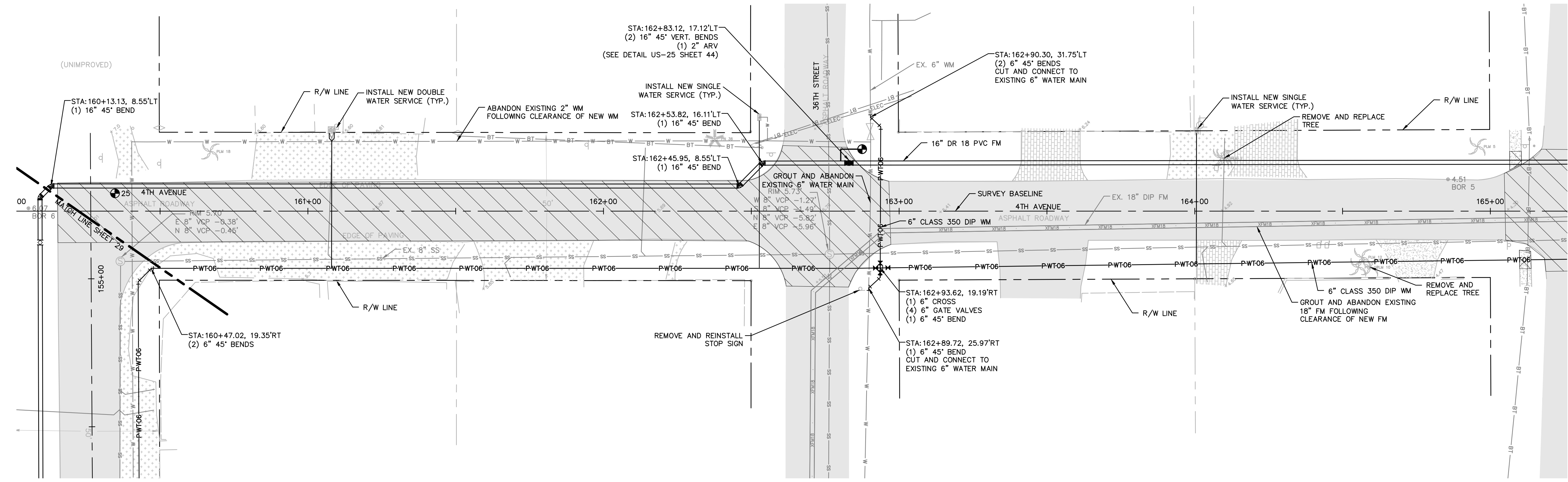
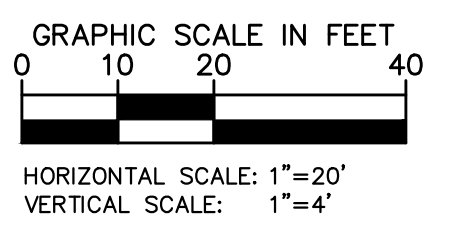
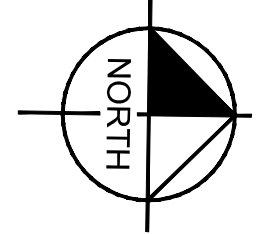
MANATEE COUNTY

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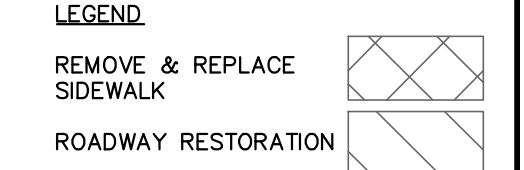
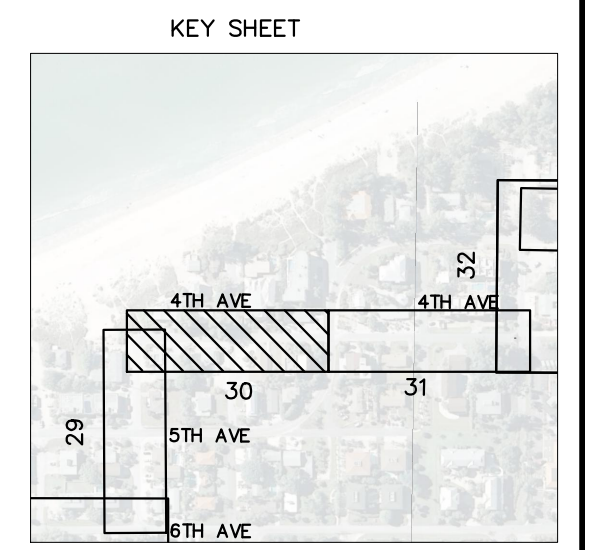
PLAN AND PROFILE 35TH STREET

SHEET NUMBER
29

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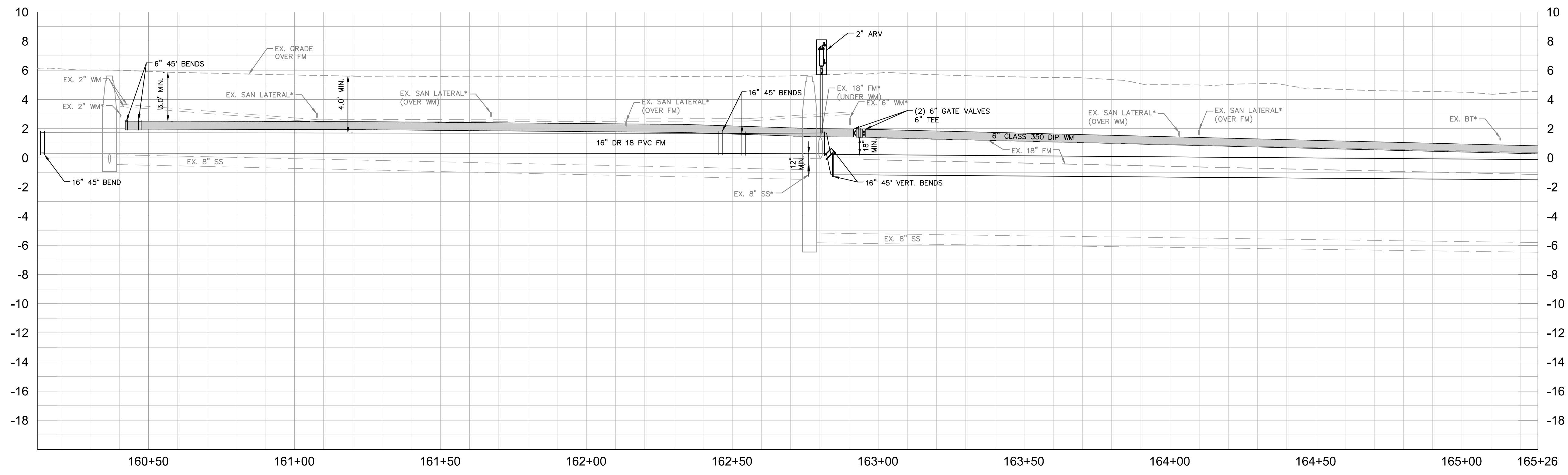
MATCH LINE SHEET 31



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Manatee County FLORIDA

FORCE MAIN 5 REHABILITATION

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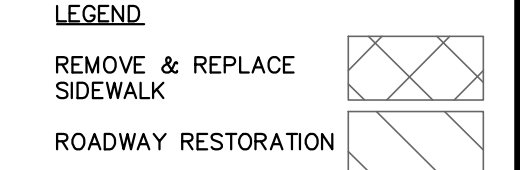
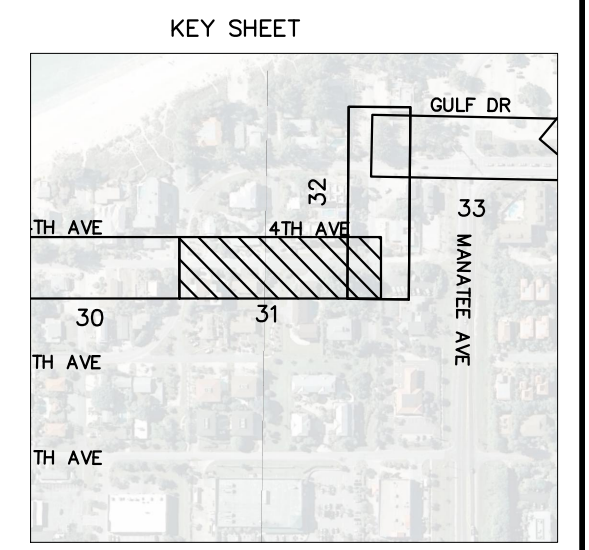
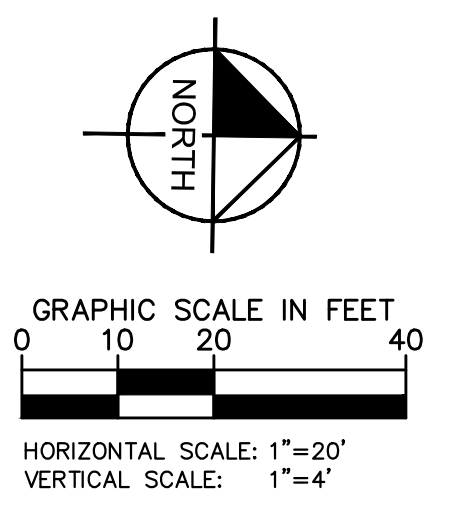
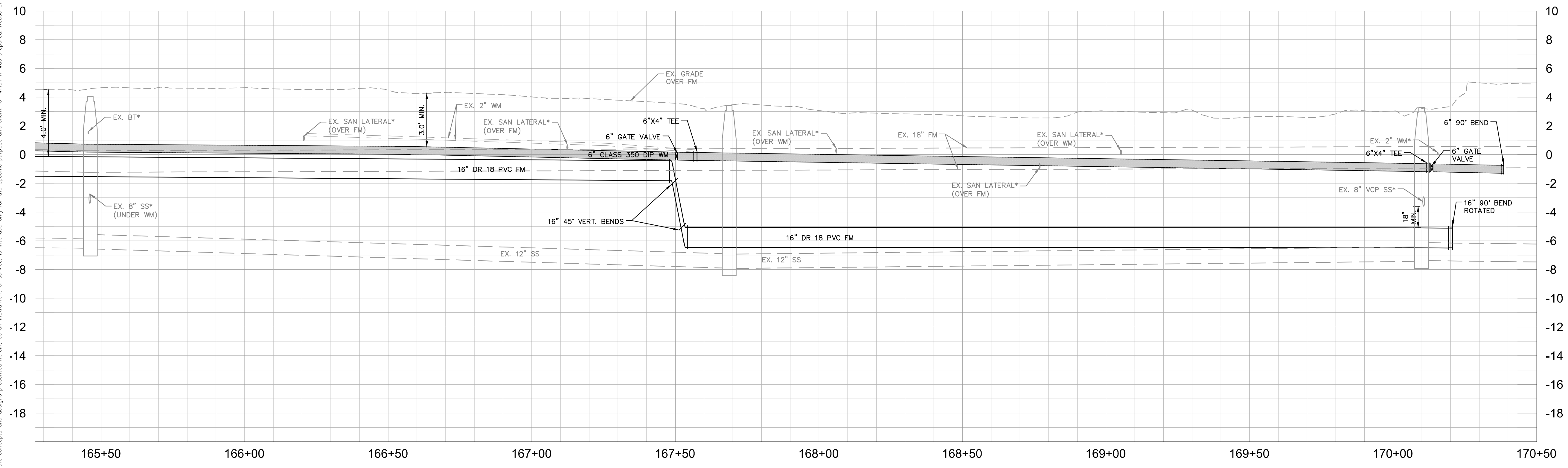
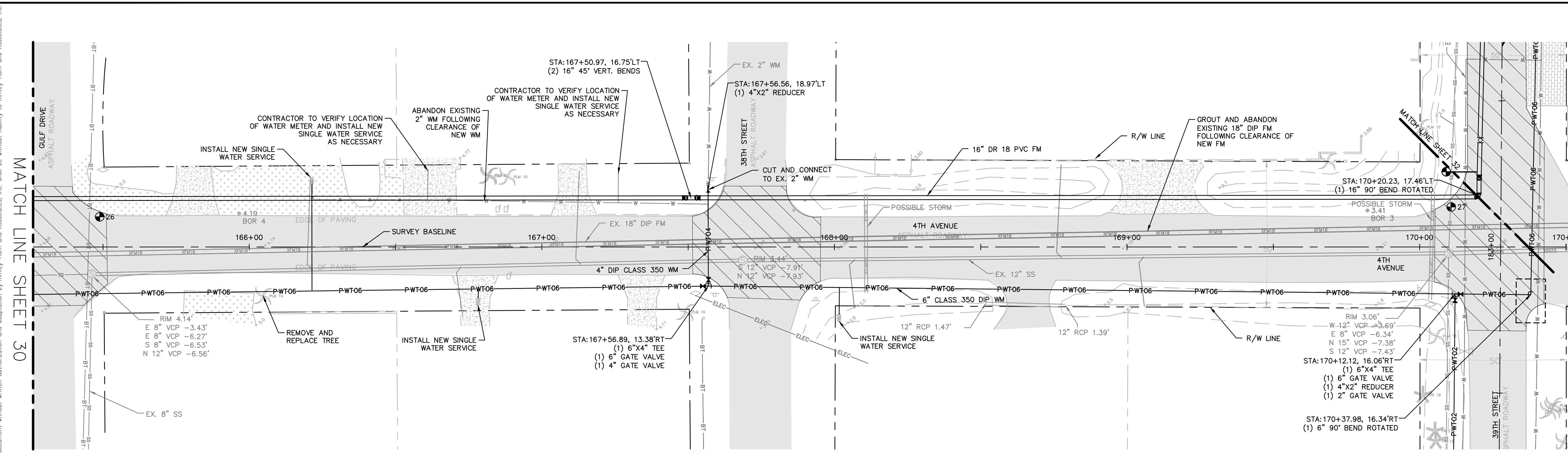
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PLAN AND PROFILE 4TH AVENUE

FL DATE:

SHEET NUMBER
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FORCE MAIN 5 REHABILITATION

MANATEE COUNTY

LICENSED PROFESSIONAL

W. WADE WOOD, P.E.

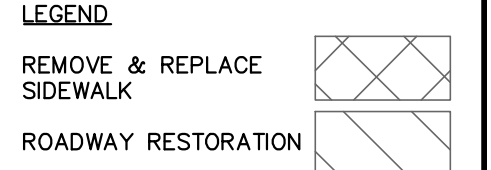
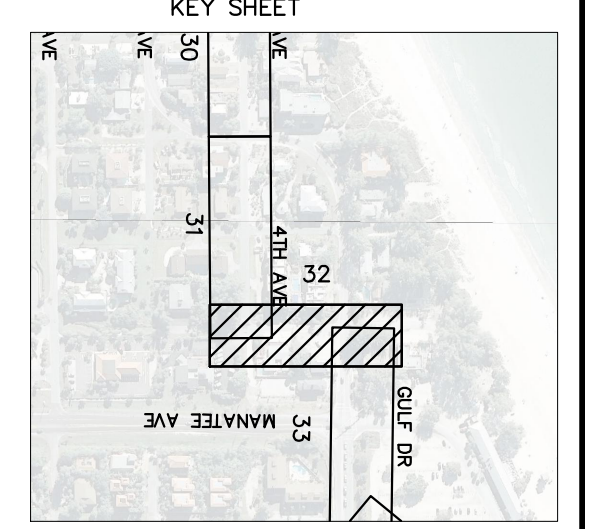
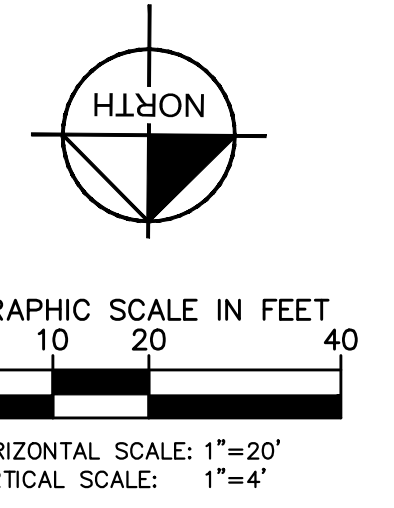
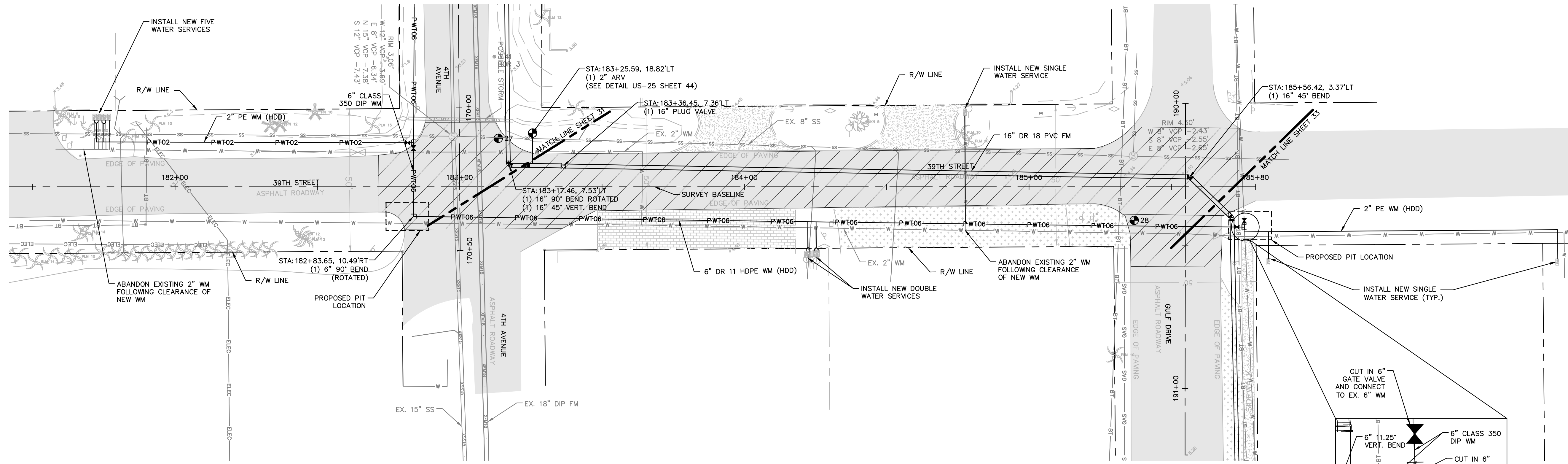
FL LICENSE NUMBER
69051

FL DATE:

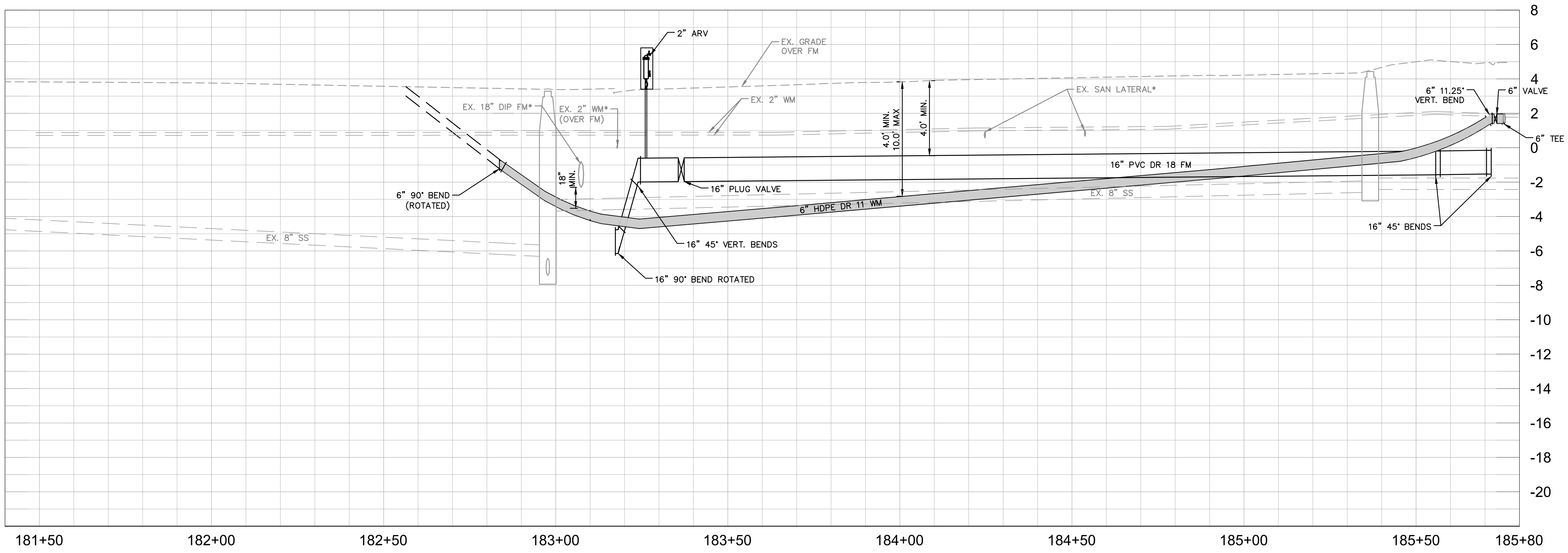
PLAN AND PROFILE 4TH AVENUE

SHEET NUMBER
31

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- NOTES:**
- REFER TO SHEET 03 FOR ADDITIONAL SUBSURFACE UTILITY EXPLORATION INFORMATION.
 - CONTRACTOR TO TAKE PRECAUTION WHEN CONSTRUCTING FORCE MAIN AROUND INLET STRUCTURE TO PREVENT UNDER MIND.
 - CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 44 & 45.
 - CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - REFER TO DETAIL UG-12 SHEET 43 FOR COUNTY ROADWAY REPAIR REQUIREMENTS



***NOTES:**
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WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

Kimley»Horn

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 PHONE: 813-620-1460
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KHA PROJECT 148400012
DATE 2/16/2017
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY JRT
CHECKED BY WEW

Manatee County FLORIDA

FORCE MAIN 5 REHABILITATION

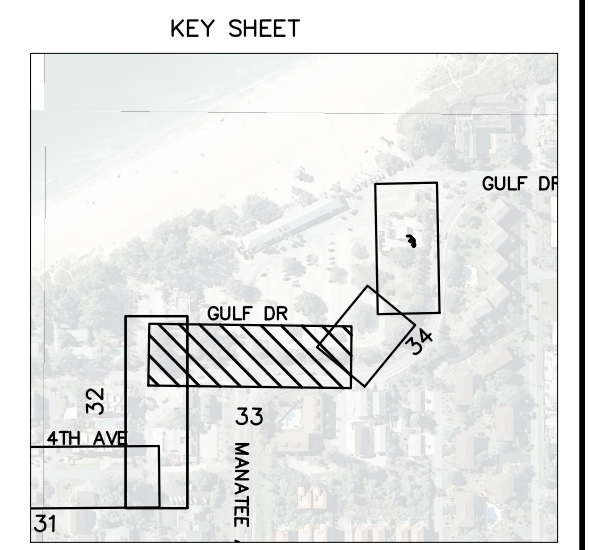
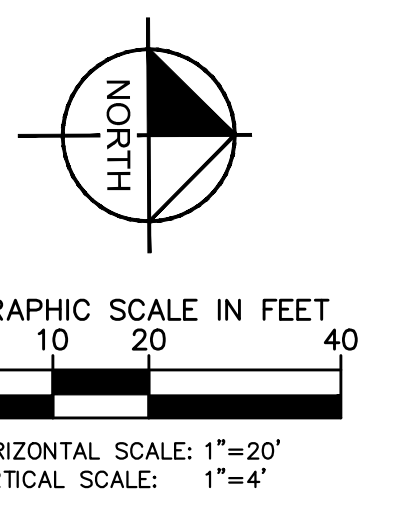
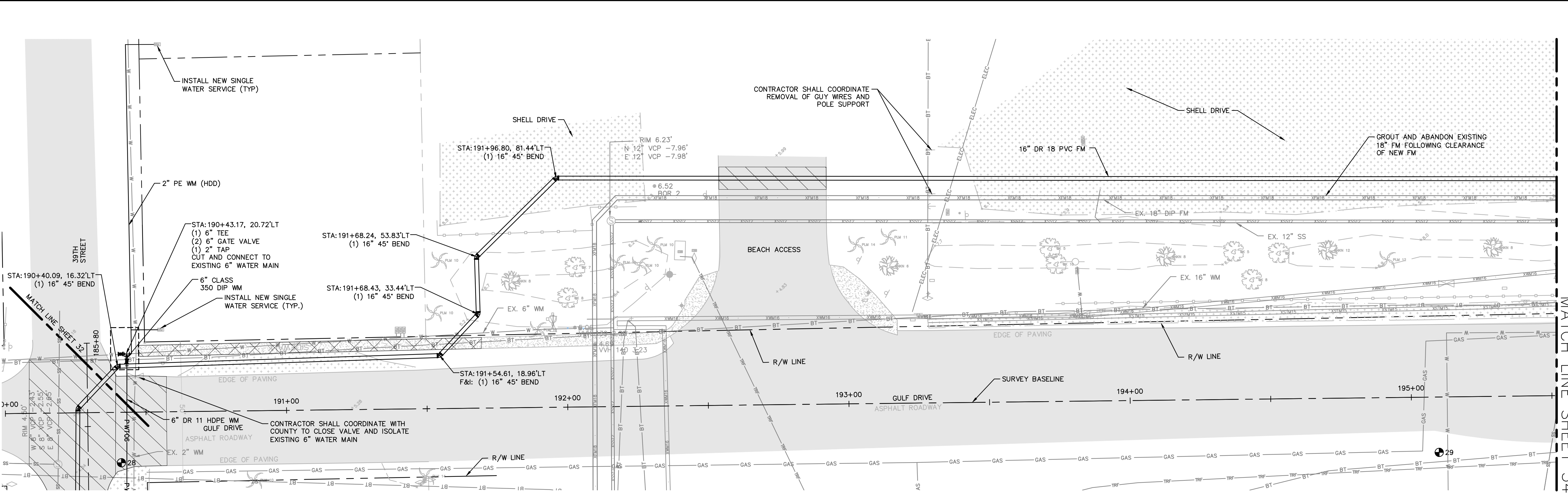
MANATEE COUNTY

LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER 69051

PLAN AND PROFILE 39TH STREET

SHEET NUMBER
32

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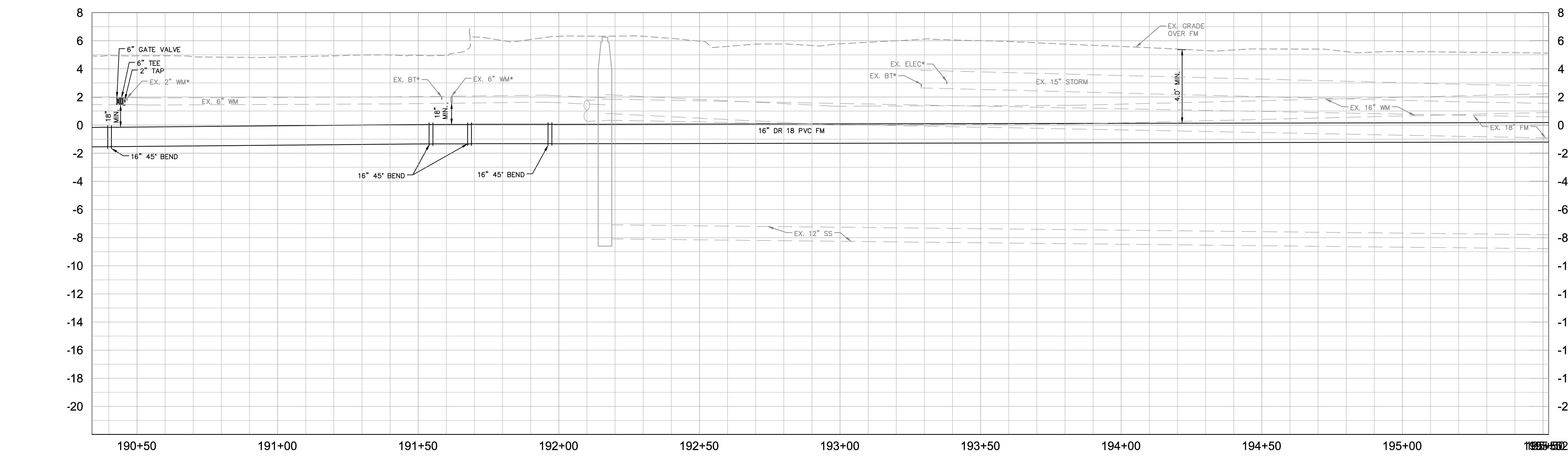


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KHA PROJECT 148400012
DATE 2/14/2017
SCALE AS SHOWN
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CHECKED BY WEW

Manatee County
FLORIDA

FORCE MAIN 5 REHABILITATION

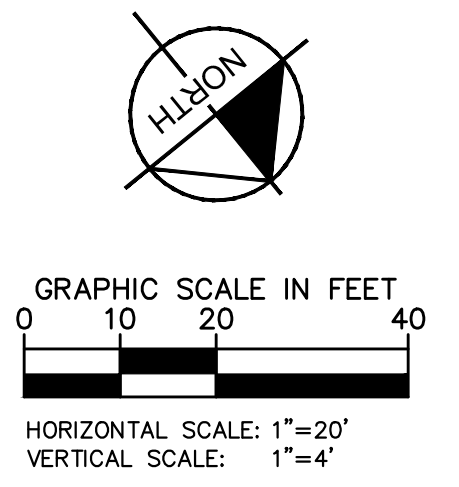
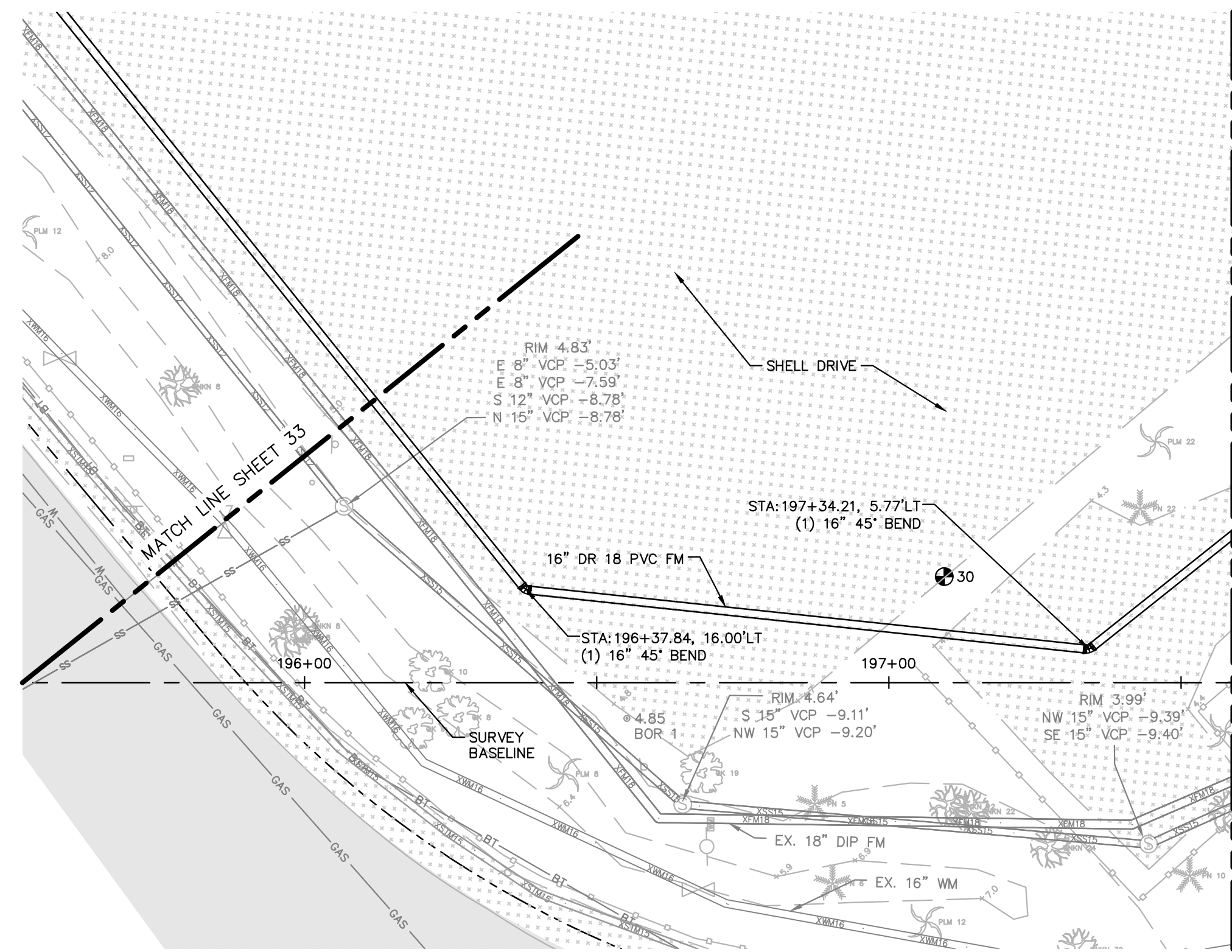
MANATEE COUNTY

LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER 69051
FL DATE:

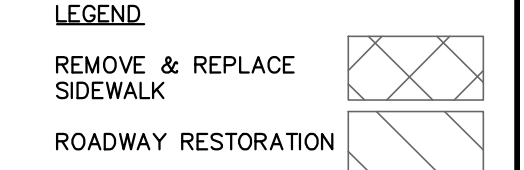
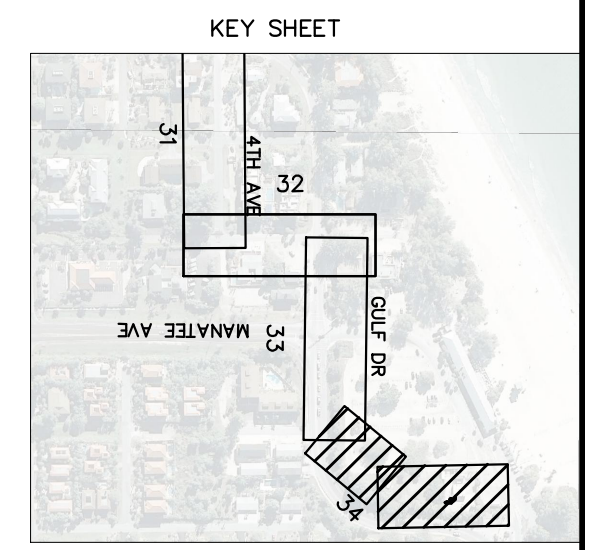
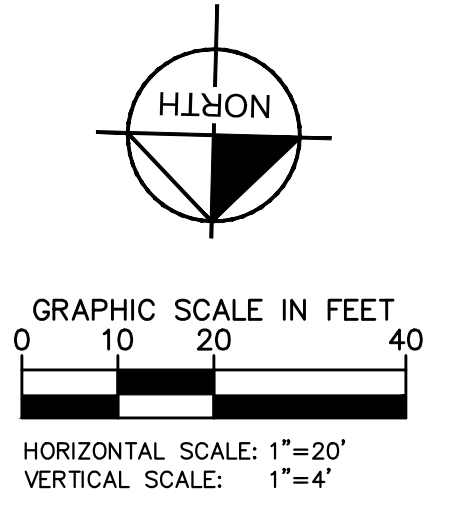
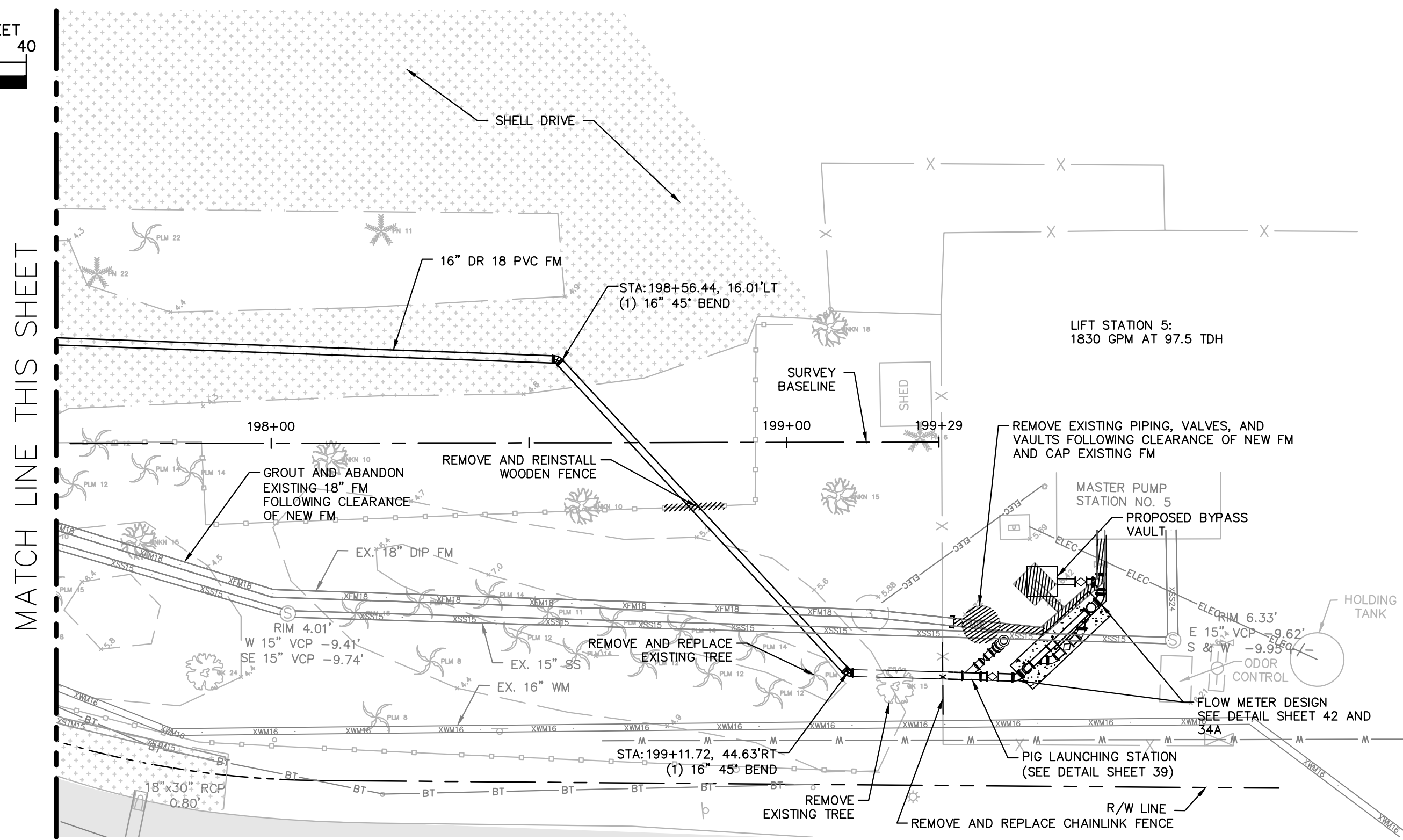
PLAN AND PROFILE GULF DRIVE

SHEET NUMBER
33

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MATCH LINE THIS SHEET

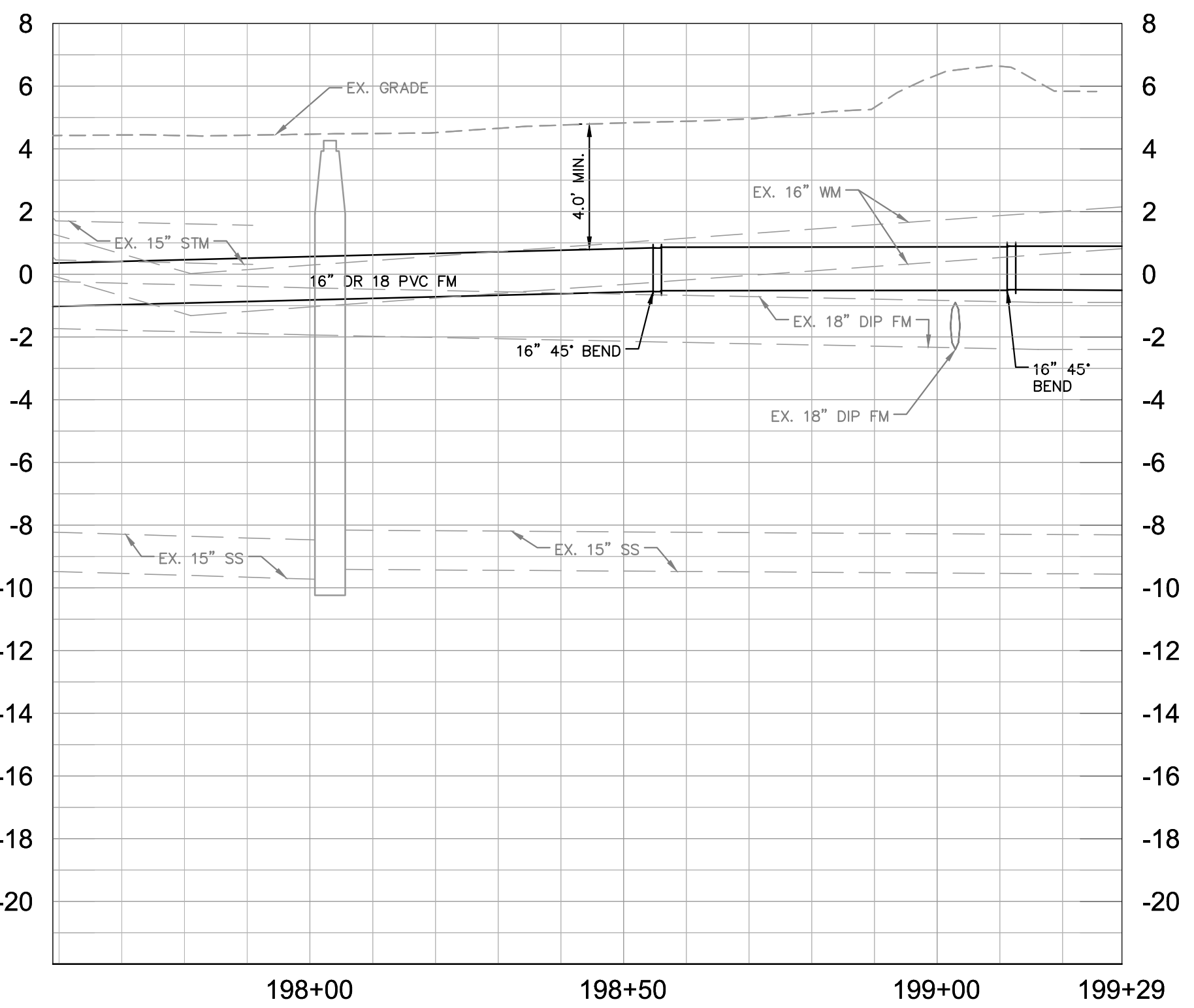
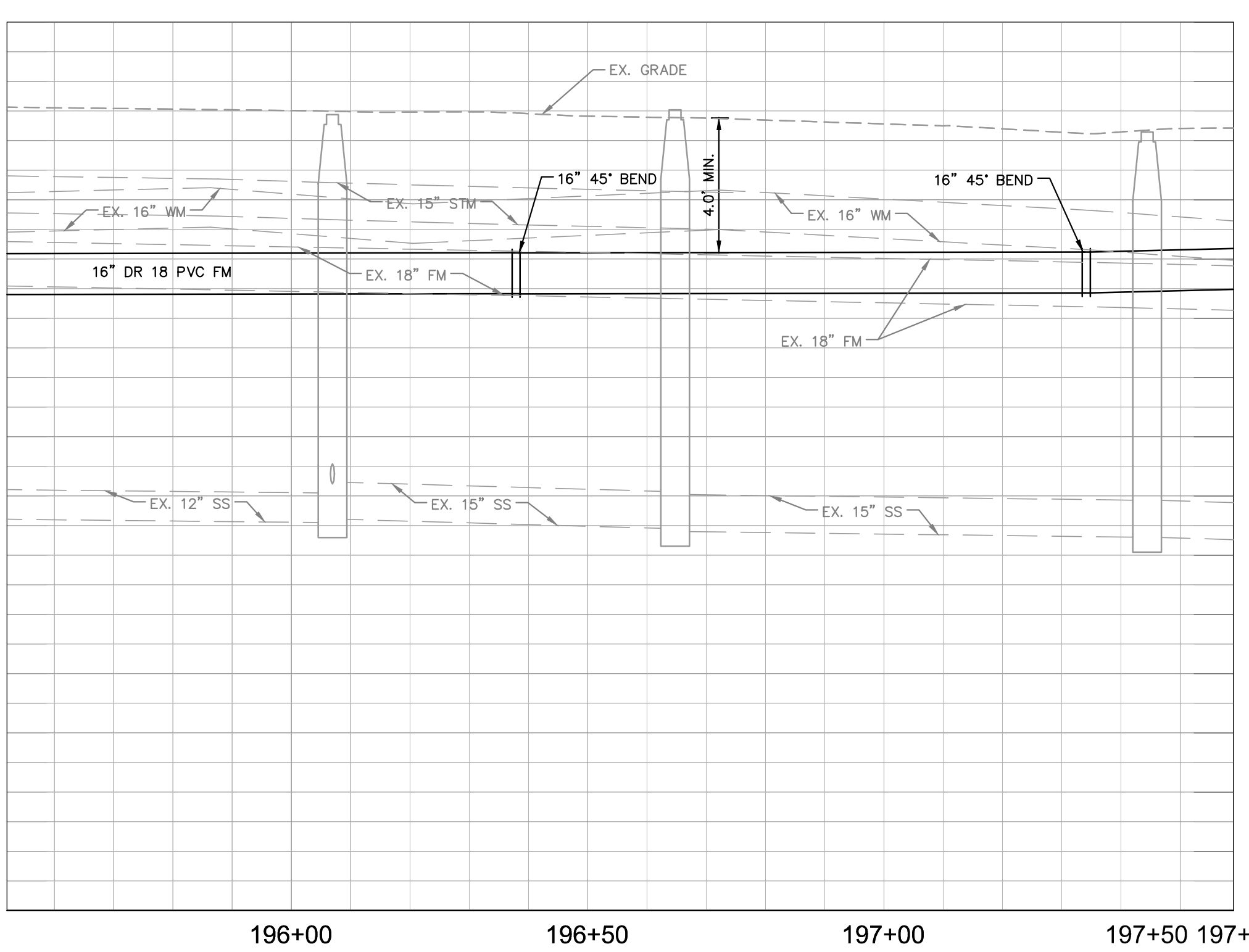


- NOTES:
- CONTRACTOR SHALL RESTORE SUBSURFACE UTILITY EXPLORATION WITHIN LIFT STATION FENCE PER THE MAG METER DETAIL SHEET 42
 - REFER TO SHEET 03 FOR ADDITIONAL SUBSURFACE UTILITY EXPLORATION INFORMATION.
 - CONTRACTOR TO TAKE PRECAUTION WHEN CONSTRUCTING FORCE MAIN AROUND INLET STRUCTURE TO PREVENT UNDER MIND.
 - CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 44 & 45.
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 - REFER TO DETAIL UG-12 SHEET 43 FOR COUNTY ROADWAY REPAIR REQUIREMENTS

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GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

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KHA PROJECT 148400012
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CHECKED BY WEW

Manatee County FLORIDA

FORCE MAIN 5 REHABILITATION

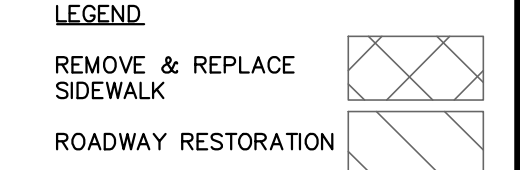
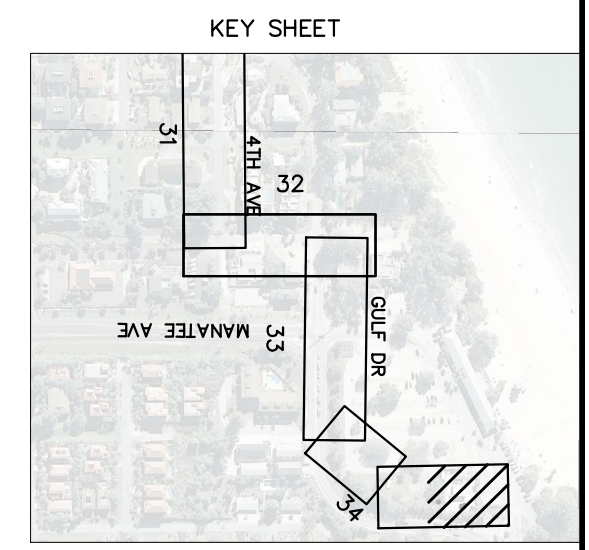
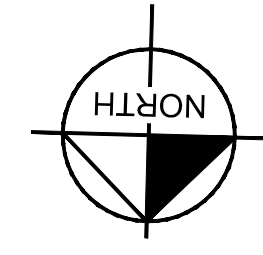
MANATEE COUNTY

LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER 69051

PLAN AND PROFILE GULF DRIVE

SHEET NUMBER
34



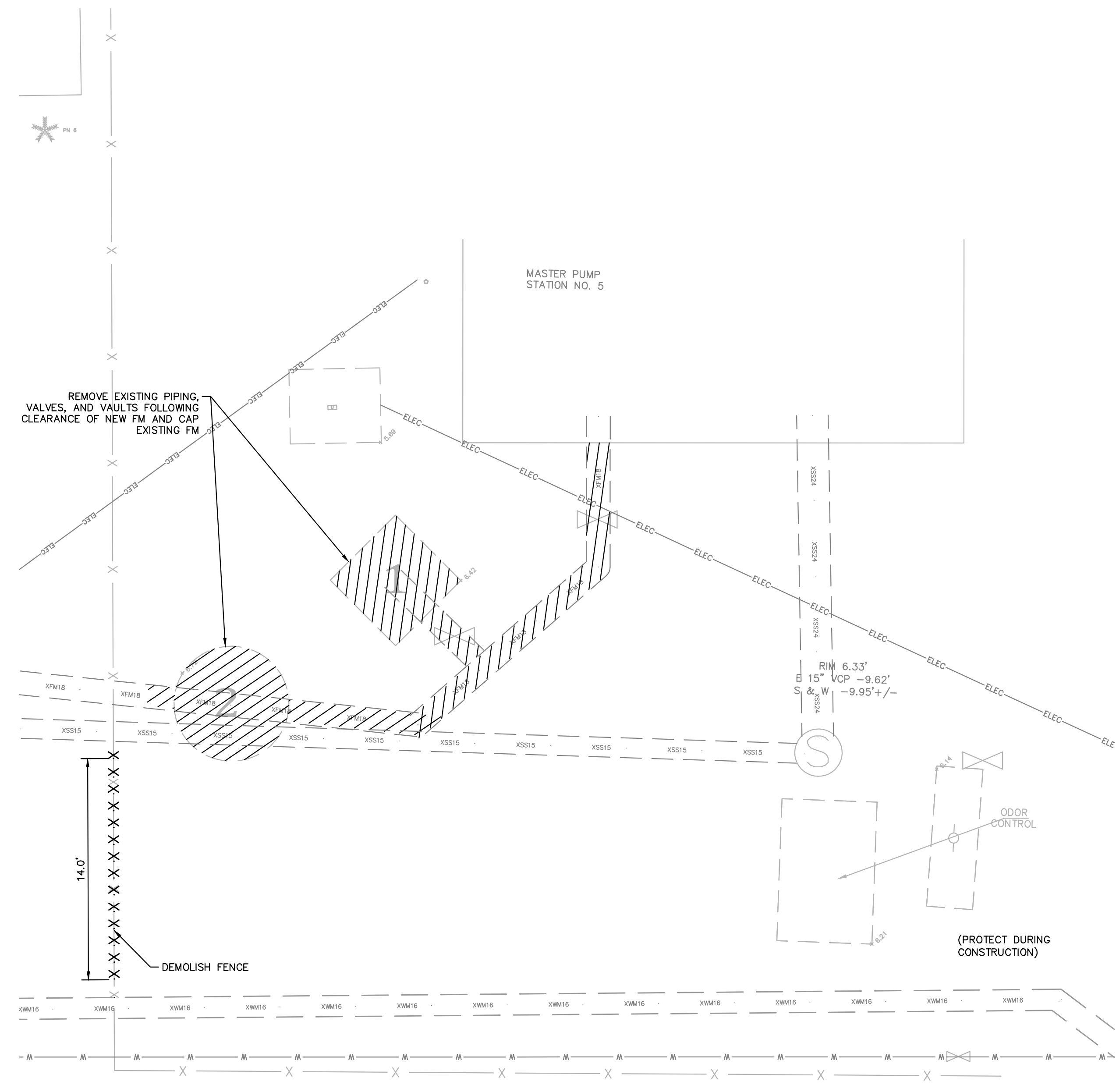


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 - REFER TO DETAIL UG-12 SHEET 43 FOR COUNTY ROADWAY REPAIR REQUIREMENTS
 - CONTRACTOR SHALL RESTORE WORKING AREA WITHIN LIFT STATION FENCE PER THE MAG METER DETAIL SHEET 42

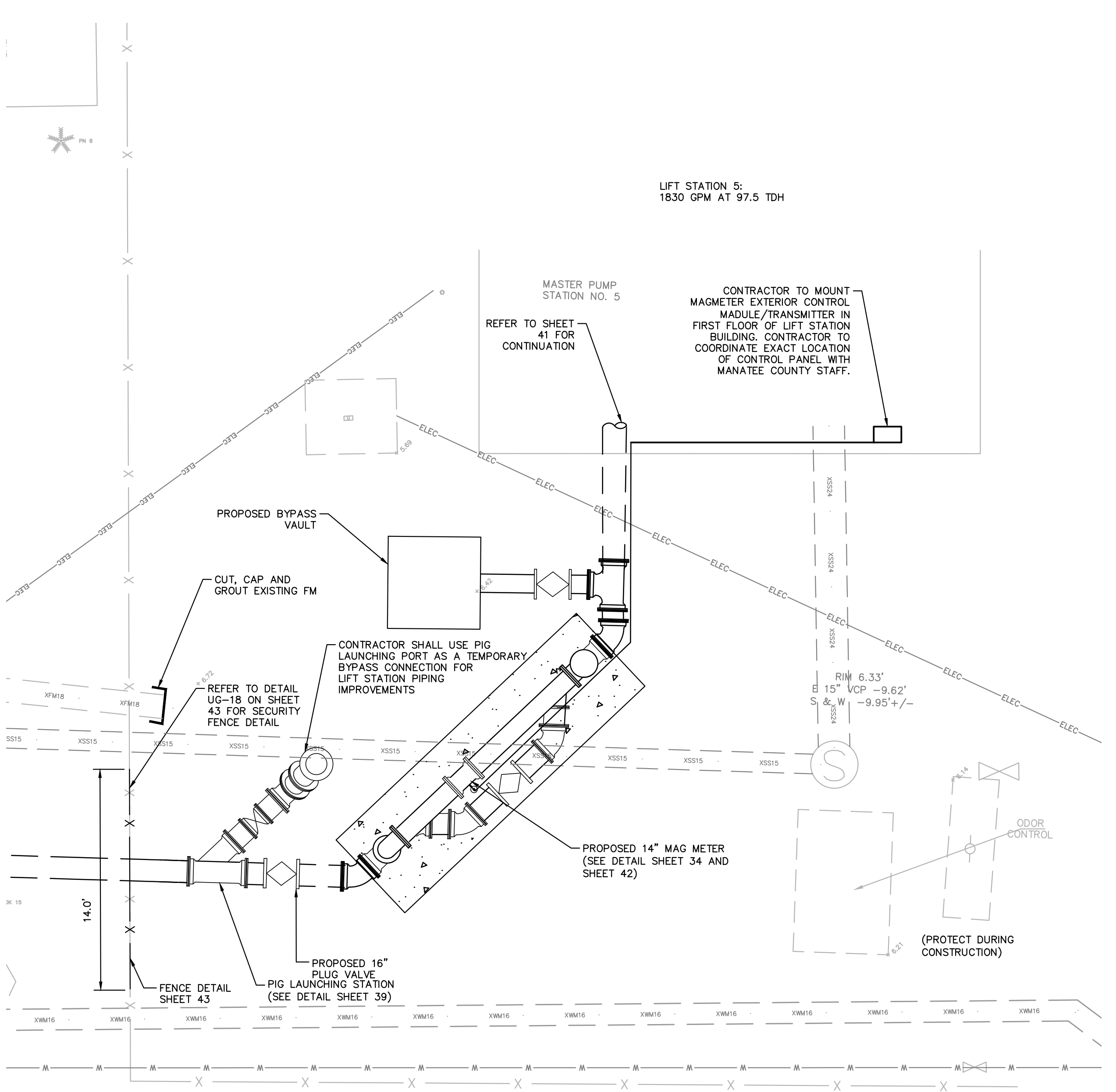
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EXISTING MLS 5 SITE PLAN
 3/16"=1'-0"



PROPOSED MLS 1M SITE PLAN
 3/16"=1'-0"

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No.	REVISIONS	DATE	BY

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KHA PROJECT 148400012
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 SCALE AS SHOWN
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 CHECKED BY WEW

Manatee County
 FLORIDA

FORCE MAIN 5 REHABILITATION

MANATEE COUNTY

LICENSED PROFESSIONAL

W. WADE WOOD, P.E.

FL LICENSE NUMBER 69051

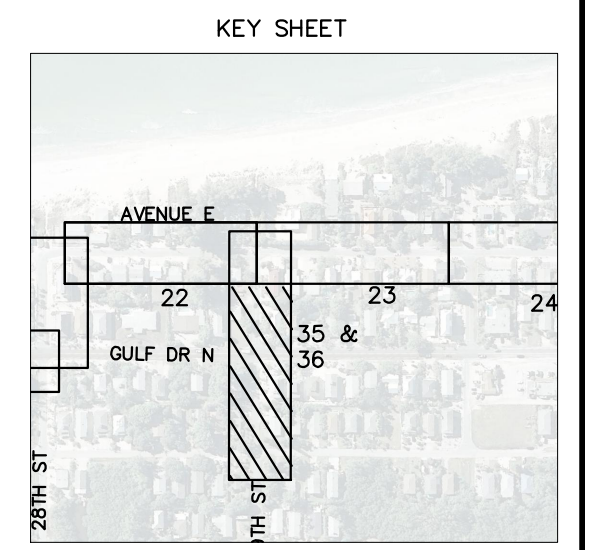
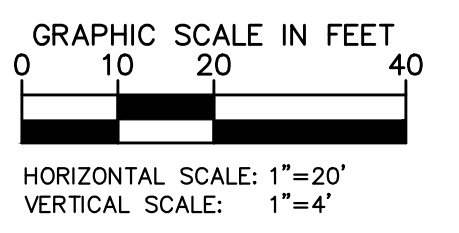
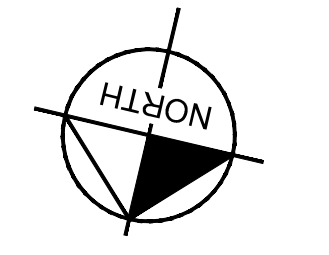
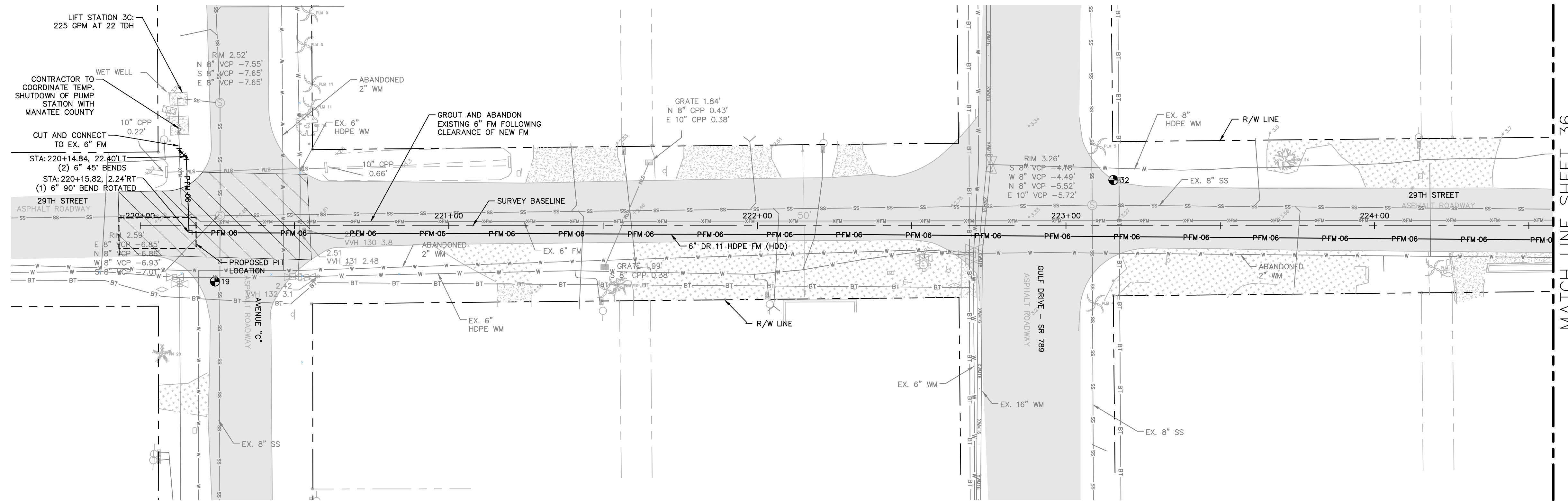
FL DATE:

LIFT STATION 5 MAG METER PLAN

SHEET NUMBER

34A

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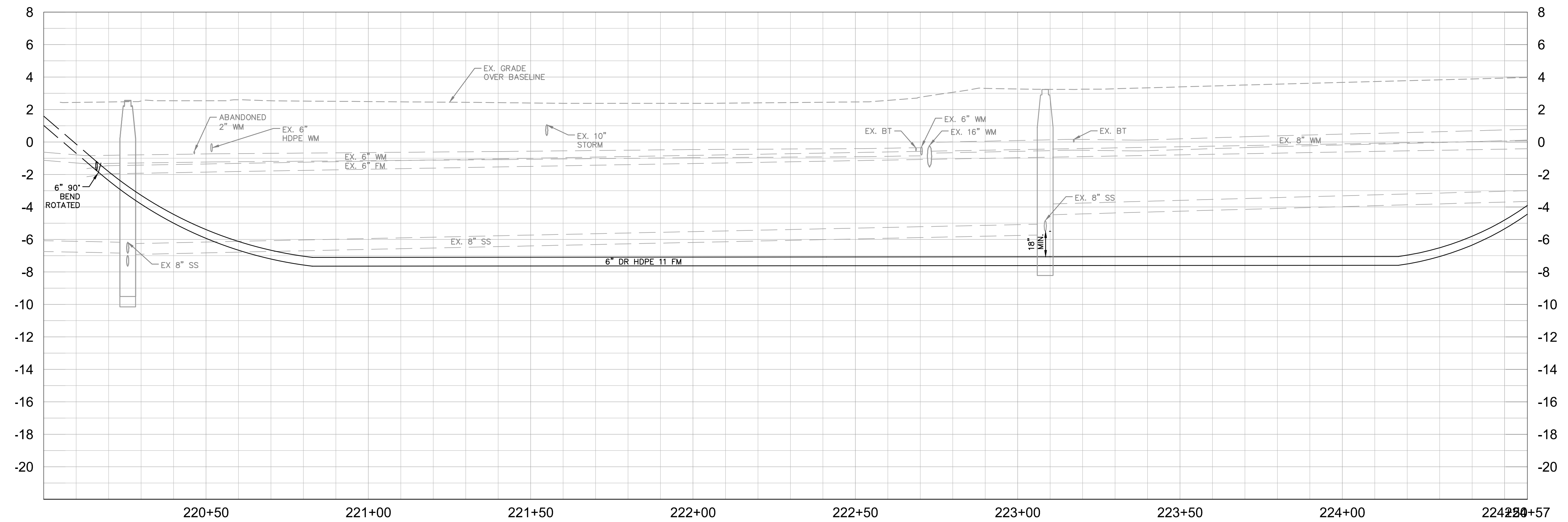
- LEGEND**
- REMOVE & REPLACE SIDEWALK
 - ROADWAY RESTORATION

- NOTES:**
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Manatee County
 FLORIDA

**FORCE MAIN 5
 REHABILITATION**

MANATEE COUNTY

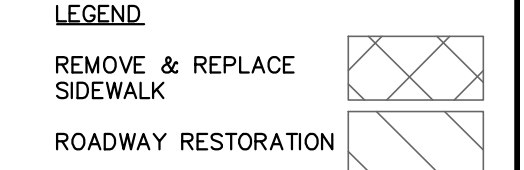
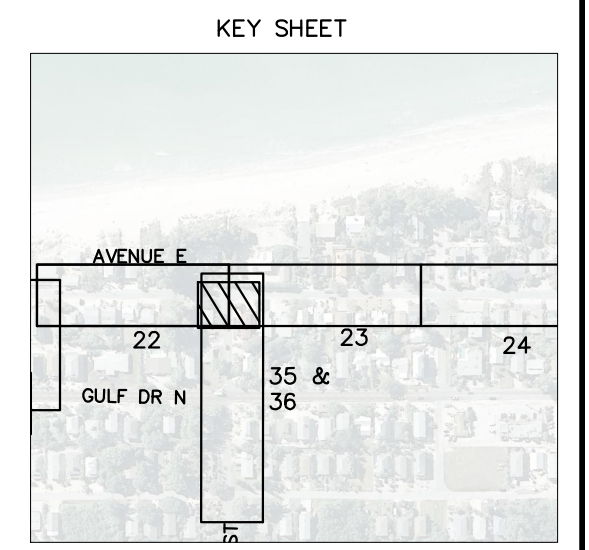
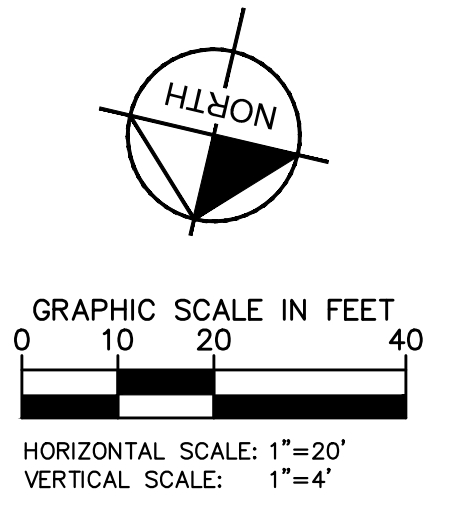
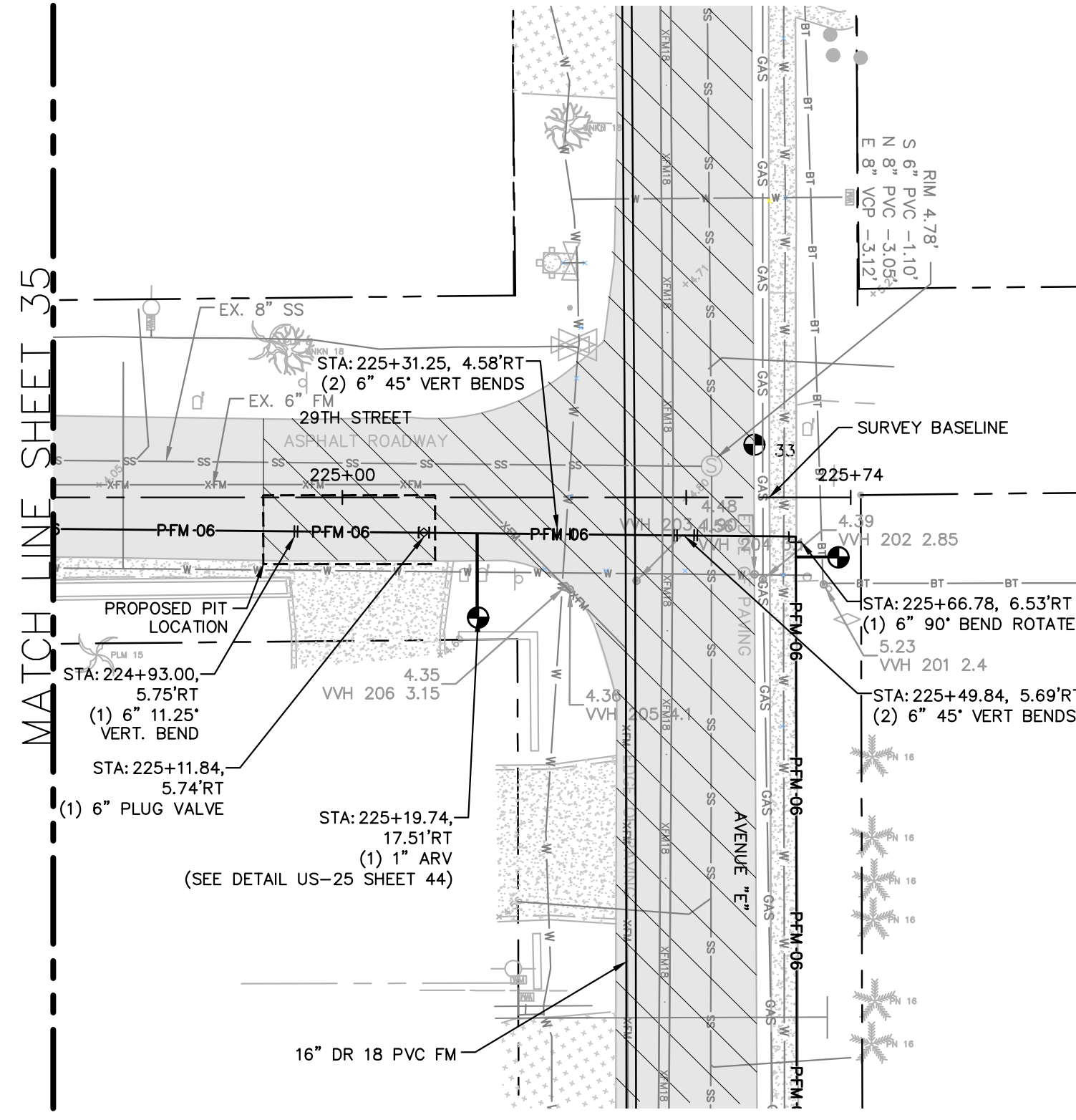
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FL LICENSE NUMBER 69051

**PLAN AND PROFILE 29TH
 STREET**

SHEET NUMBER
35



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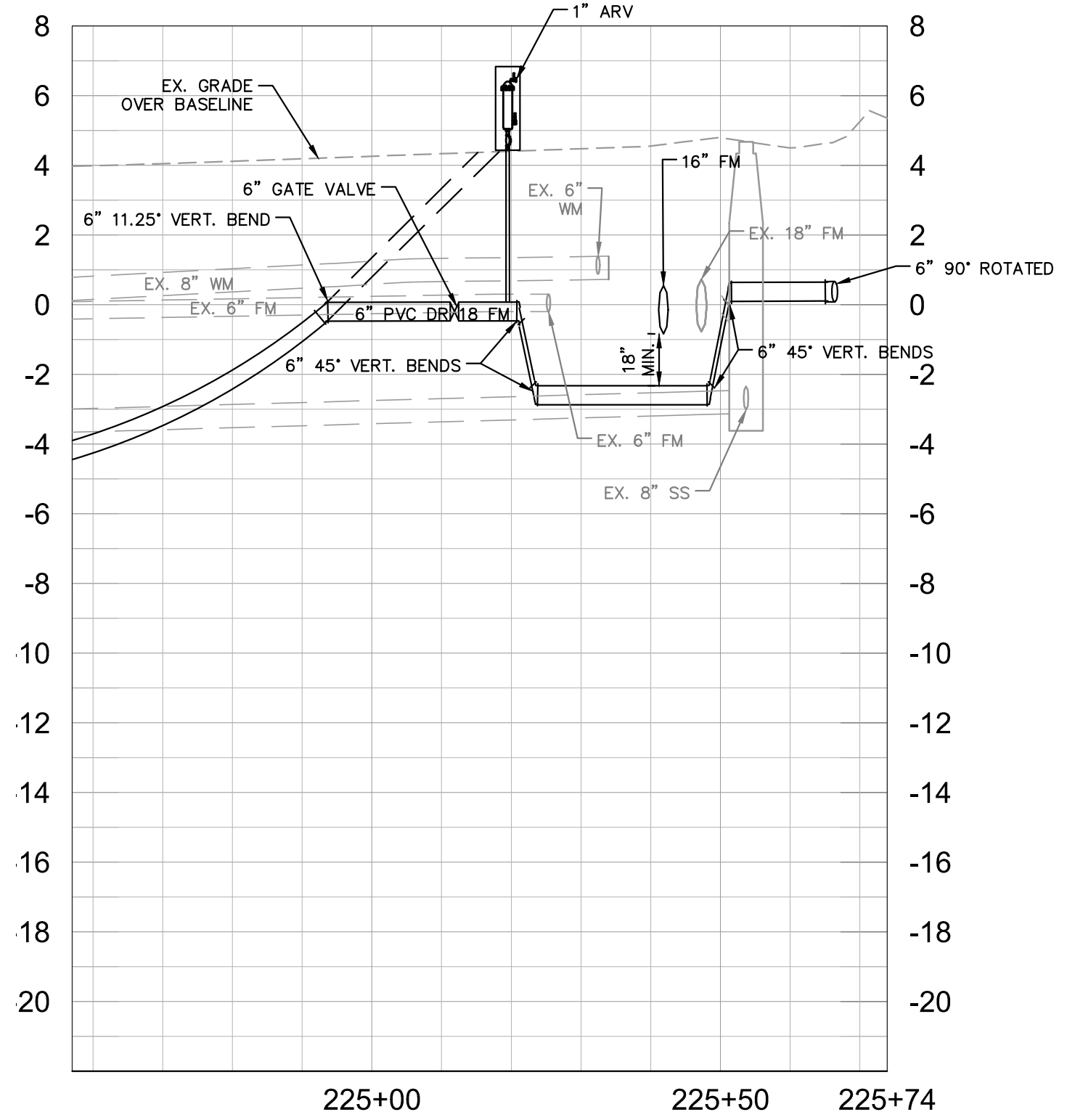


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KHA PROJECT
148400012
DATE
2/16/2017
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY JRT
CHECKED BY WEW

Manatee County FLORIDA
FORCE MAIN 5 REHABILITATION
MANATEE COUNTY

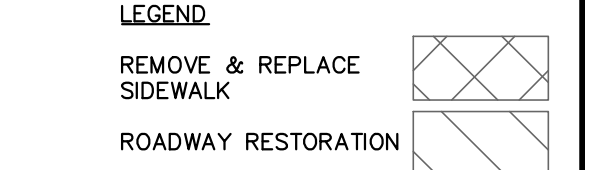
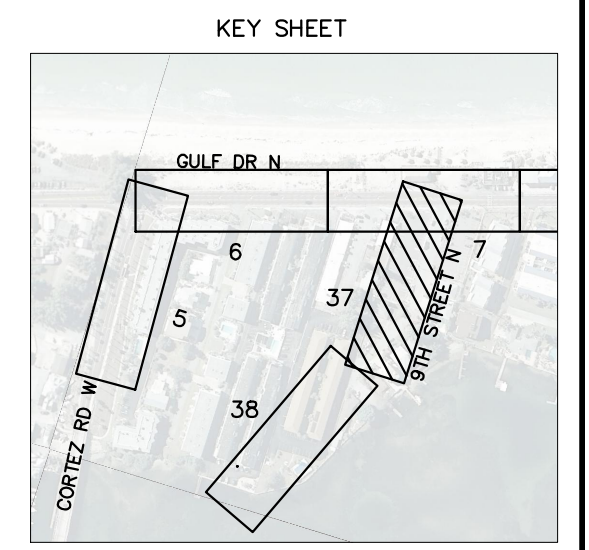
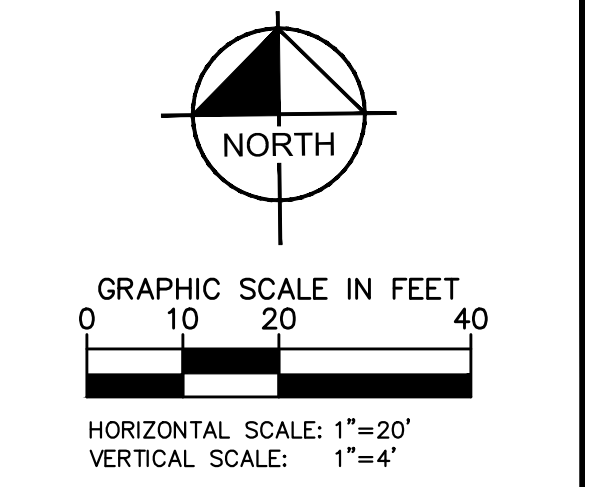
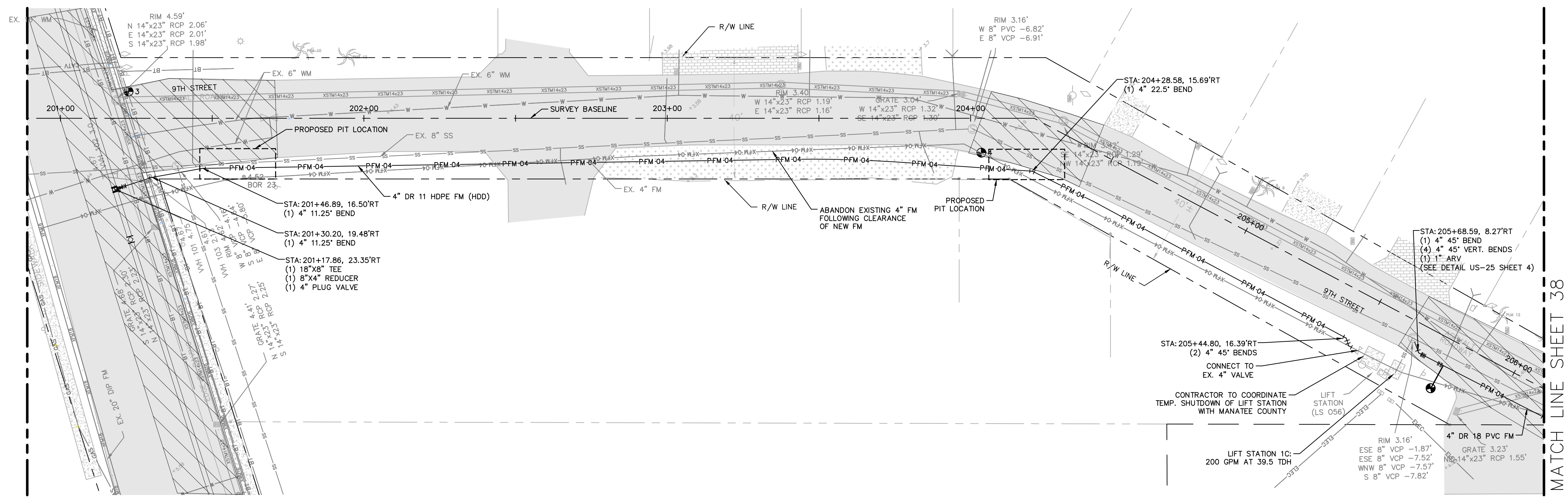
LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER
69051
FL DATE:

PLAN AND PROFILE 29TH STREET

SHEET NUMBER
36



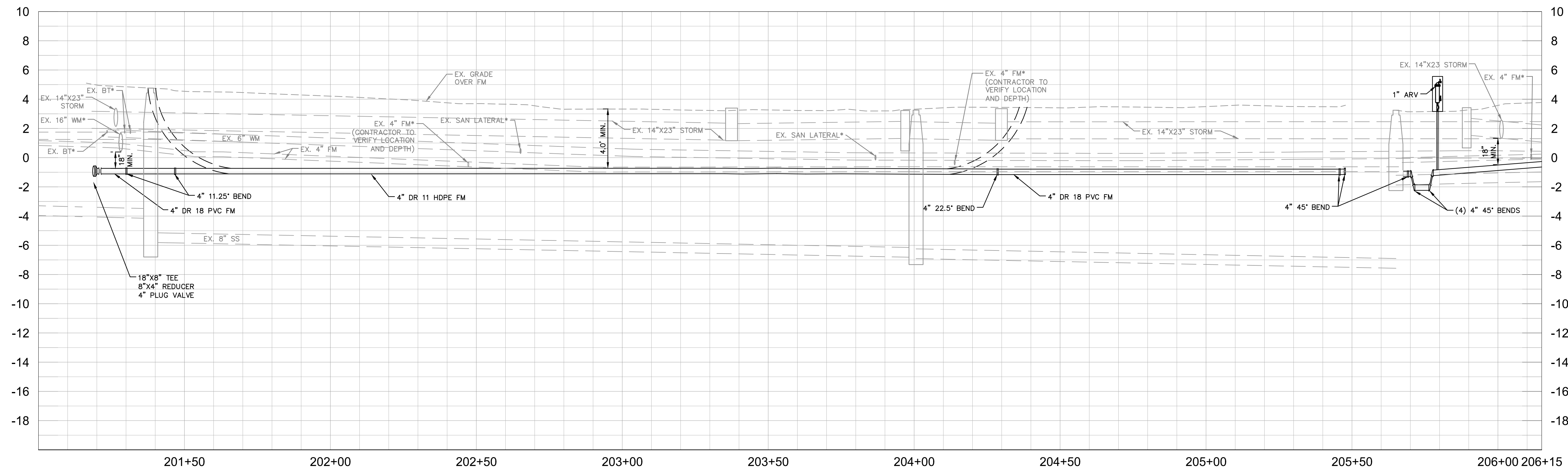
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- NOTES:
- REFER TO SHEET 03 FOR ADDITIONAL SUBSURFACE UTILITY EXPLORATION INFORMATION.
 - CONTRACTOR TO TAKE PRECAUTION WHEN CONSTRUCTING FORCE MAIN AROUND INLET STRUCTURE TO PREVENT UNDER MIND.
 - CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 44 & 45.
 - CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WHEN CONSTRUCTING AROUND INFILTRATION TRENCHES. IF DISTURBED/DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL RESTORE PER DETAIL ON SHEET 46.

*NOTES:
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED FORCE MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.



GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

Kimley»Horn

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655 NORTH FRANKLIN STREET, SUITE 150, TAMPA, FL 33602
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FORCE MAIN 5 REHABILITATION

MANATEE COUNTY

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PLAN AND PROFILE 9TH STREET

SHEET NUMBER
37