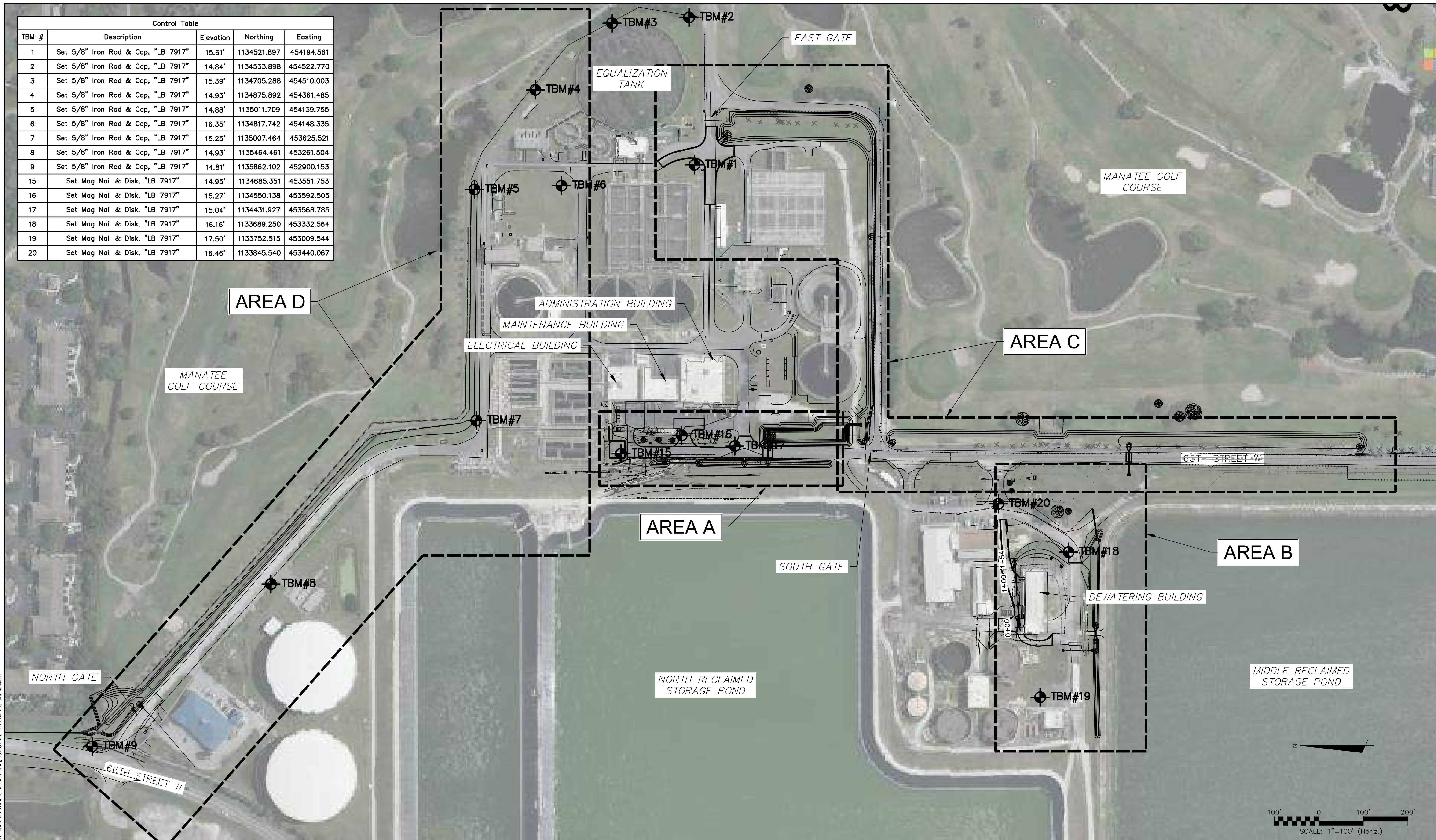
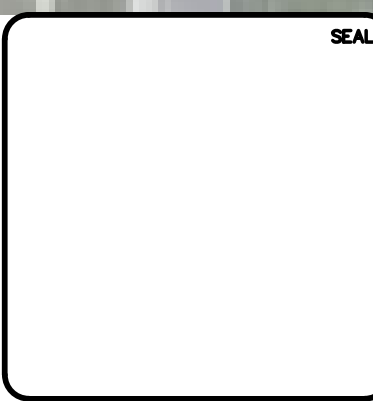
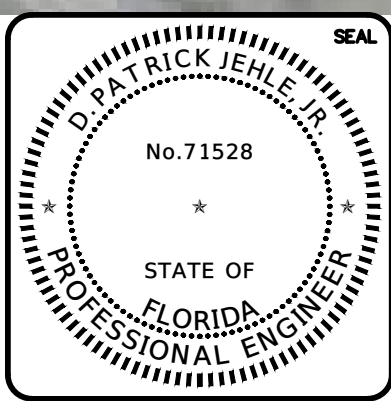


| Control Table | | | | |
|---------------|------------------------------------|-----------|-------------|------------|
| TBM # | Description | Elevation | Northing | Easting |
| 1 | Set 5/8" Iron Rod & Cap, "LB 7917" | 15.61' | 1134521.897 | 454194.561 |
| 2 | Set 5/8" Iron Rod & Cap, "LB 7917" | 14.84' | 1134533.898 | 454522.770 |
| 3 | Set 5/8" Iron Rod & Cap, "LB 7917" | 15.39' | 1134705.288 | 454510.003 |
| 4 | Set 5/8" Iron Rod & Cap, "LB 7917" | 14.93' | 1134875.892 | 454361.485 |
| 5 | Set 5/8" Iron Rod & Cap, "LB 7917" | 14.88' | 1135011.709 | 454139.755 |
| 6 | Set 5/8" Iron Rod & Cap, "LB 7917" | 16.35' | 1134817.742 | 454148.335 |
| 7 | Set 5/8" Iron Rod & Cap, "LB 7917" | 15.25' | 1135007.464 | 453625.521 |
| 8 | Set 5/8" Iron Rod & Cap, "LB 7917" | 14.93' | 1135464.461 | 453261.504 |
| 9 | Set 5/8" Iron Rod & Cap, "LB 7917" | 14.81' | 1135862.102 | 452900.153 |
| 15 | Set Mag Nail & Disk, "LB 7917" | 14.95' | 1134685.351 | 453551.753 |
| 16 | Set Mag Nail & Disk, "LB 7917" | 15.27' | 1134550.138 | 453592.505 |
| 17 | Set Mag Nail & Disk, "LB 7917" | 15.04' | 1134431.927 | 453568.785 |
| 18 | Set Mag Nail & Disk, "LB 7917" | 16.16' | 1133689.250 | 453332.564 |
| 19 | Set Mag Nail & Disk, "LB 7917" | 17.50' | 1133752.515 | 453009.544 |
| 20 | Set Mag Nail & Disk, "LB 7917" | 16.46' | 1133845.540 | 453440.067 |



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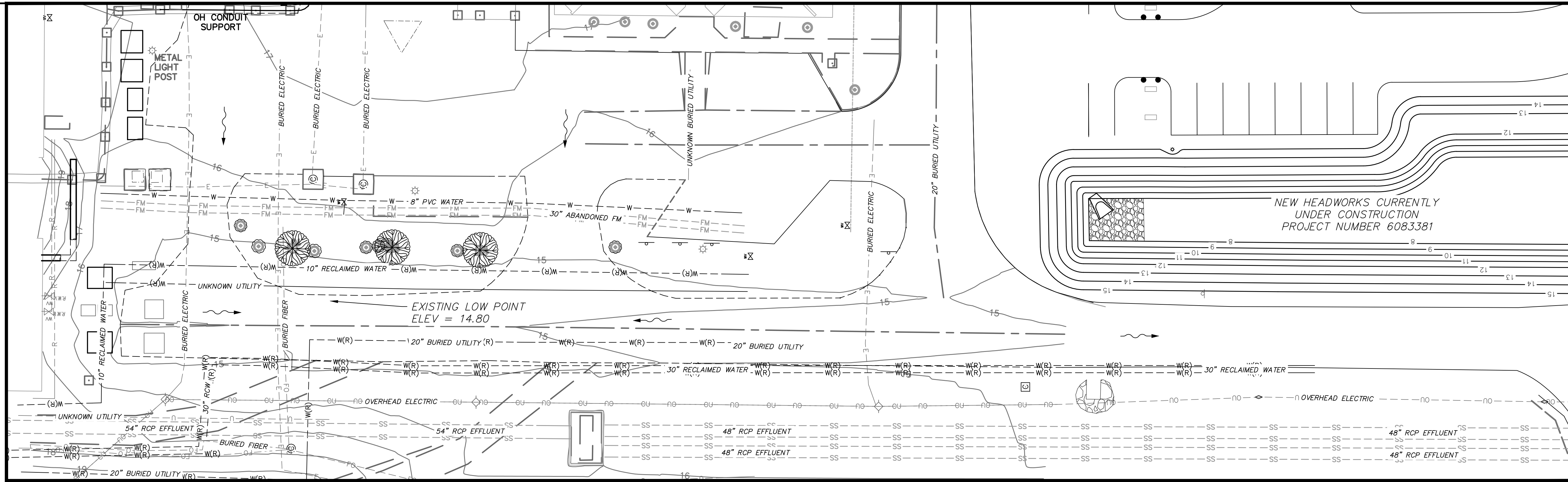
**SWRF
 STORMWATER SYSTEM REHABILITATION**

CIVIL

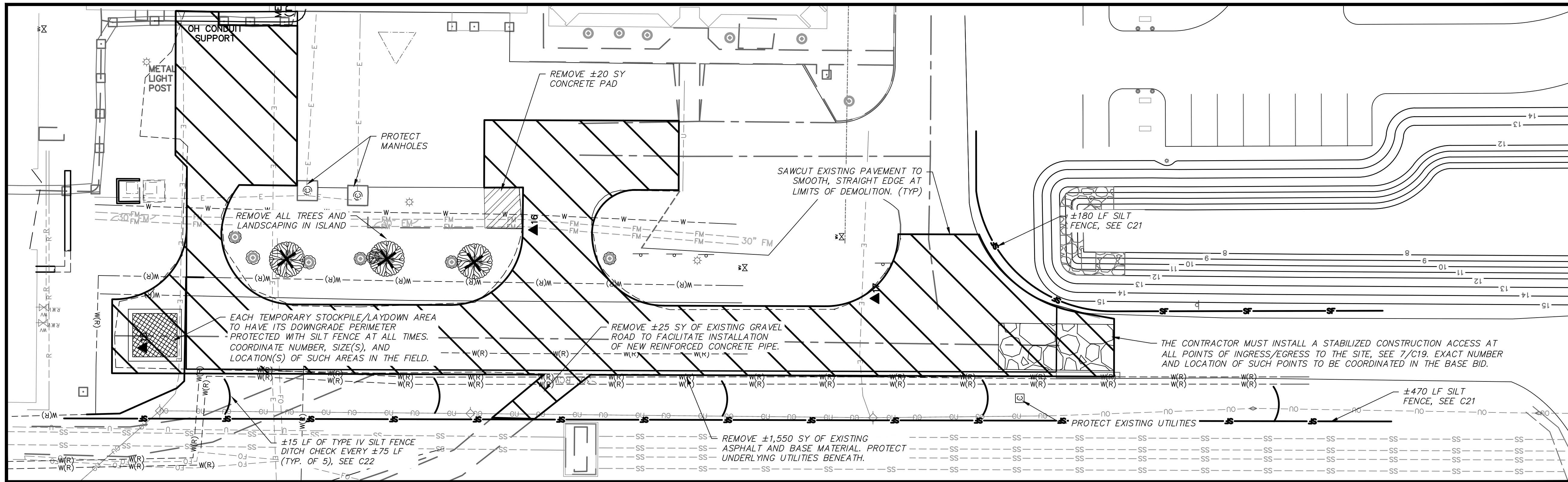
PROJECT AREA OVERVIEW & KEYSHEET

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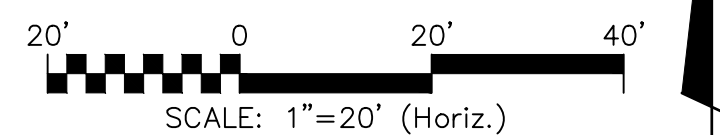
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EXISTING CONDITIONS

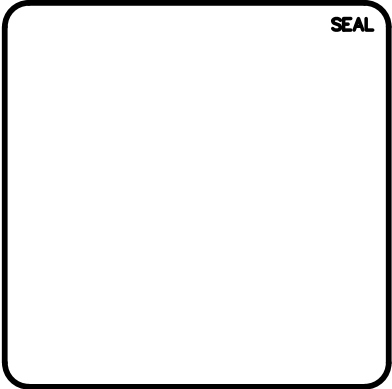
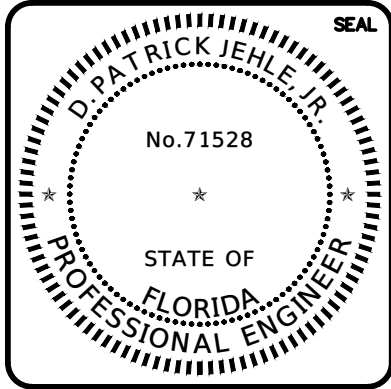


DEMOLITION PLAN



I:\0102A\0102A\ENR\00-drawings\Civil\022 AREA A - EXISTING CONDITIONS & DEMOLITION PLAN.dwg 7/29/2022 11:22:07 AM Alex Machado

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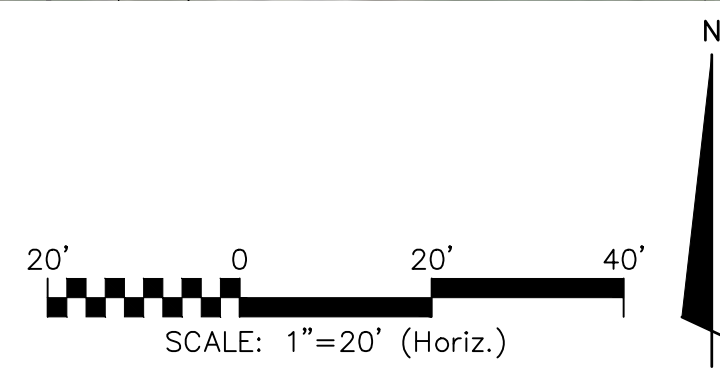
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**AREA A - EXISTING CONDITIONS &
DEMOLITION PLAN**

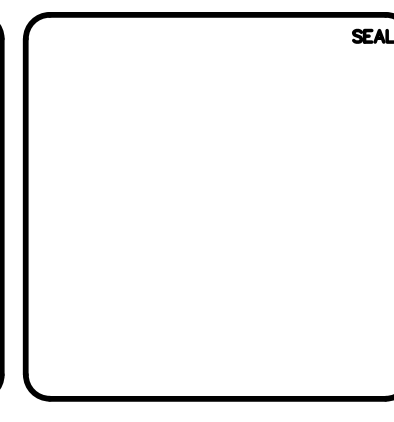
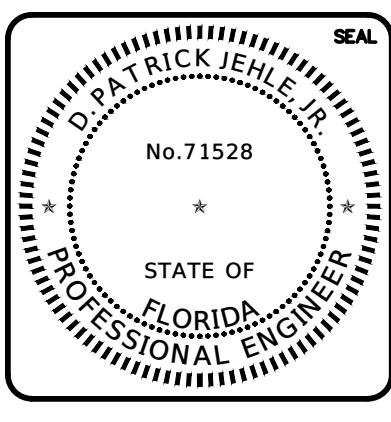
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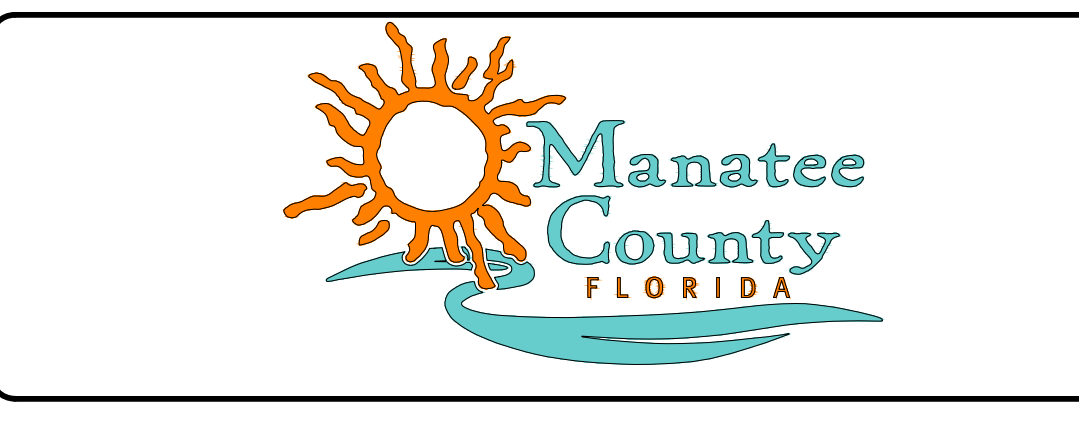
EXISTING CONDITIONS



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AREA B - EXISTING CONDITIONS

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| DATE: | JULY 2022 |
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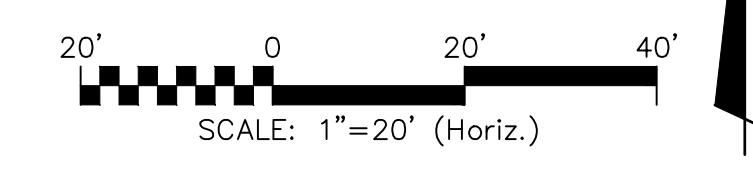
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| REVISION | REVISION |

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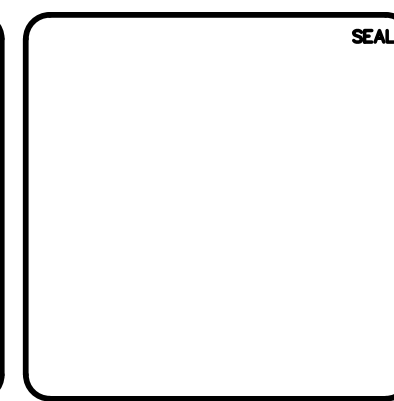
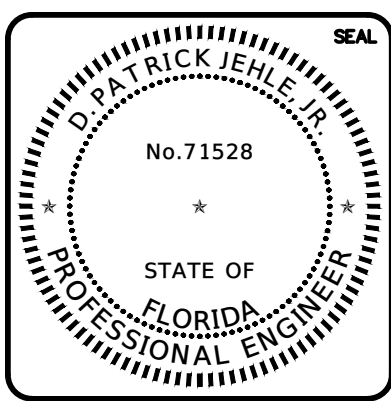
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DEMOLITION PLAN



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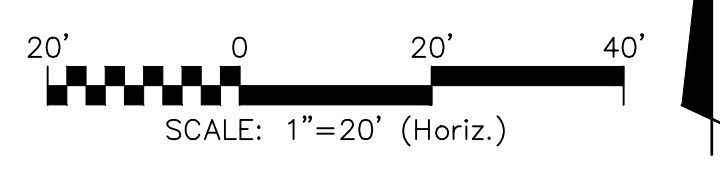
CIVIL
AREA B - DEMOLITION PLAN

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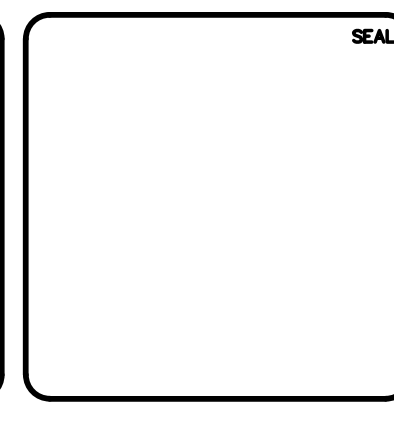
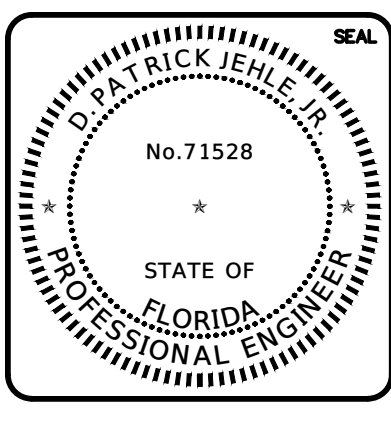
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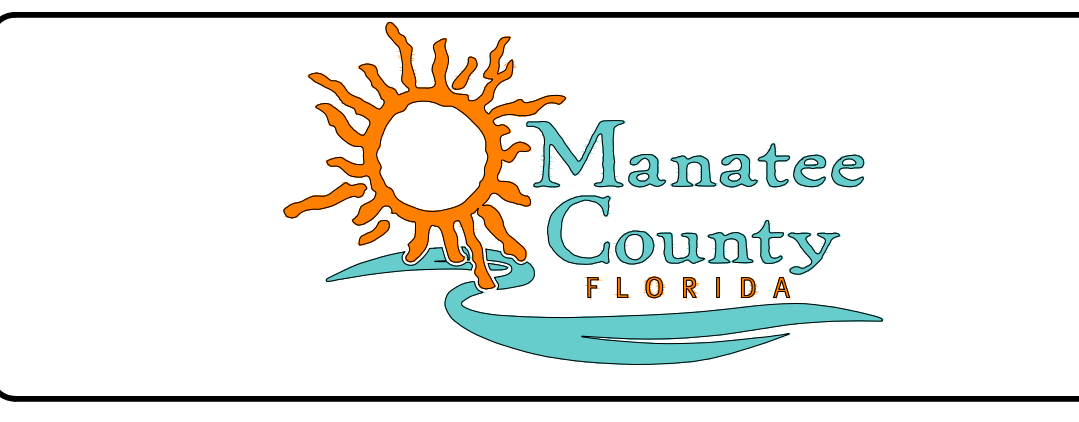
IMPROVEMENTS AND LAYOUT PLAN



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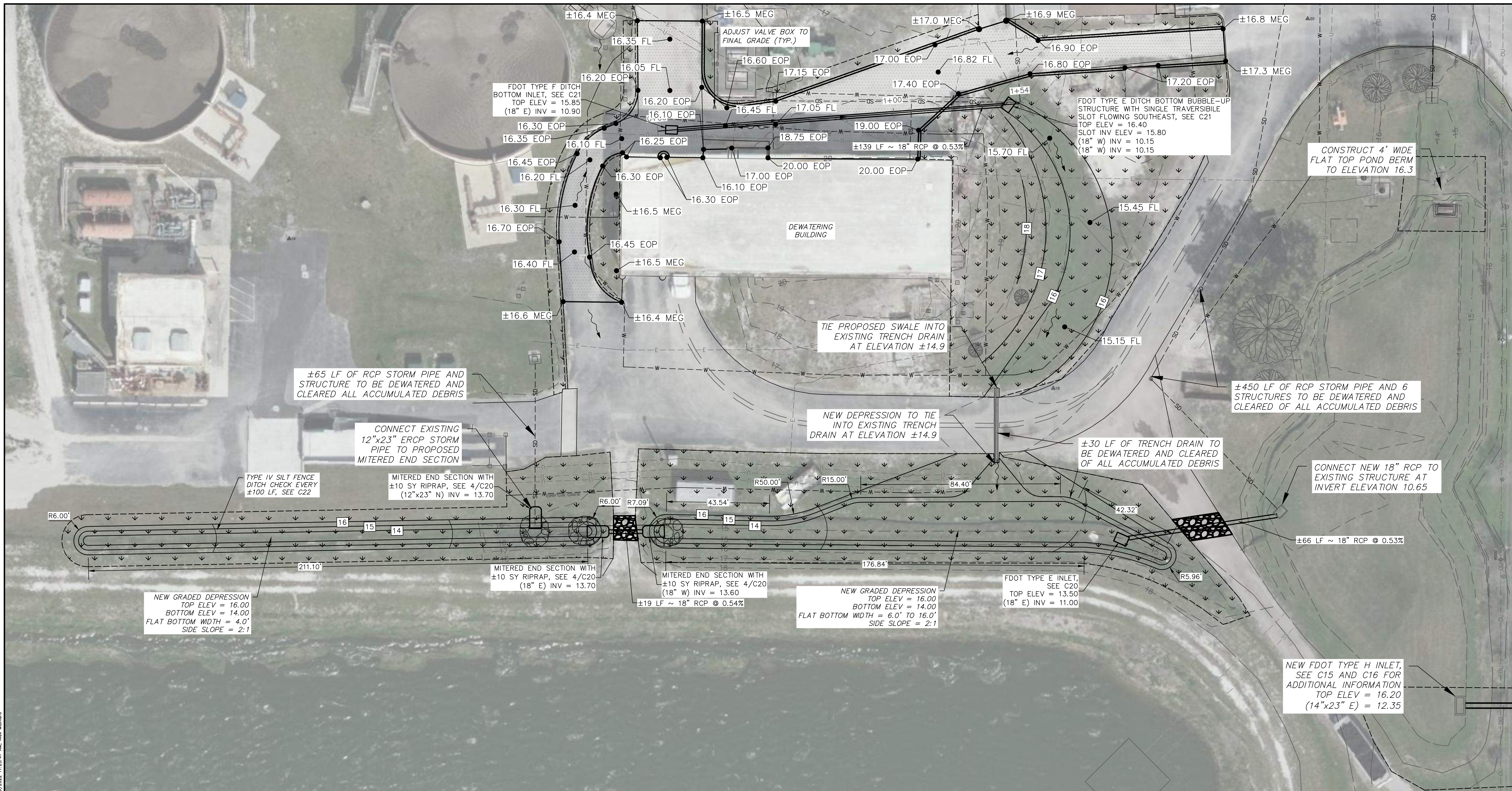
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 STORMWATER SYSTEM REHABILITATION**

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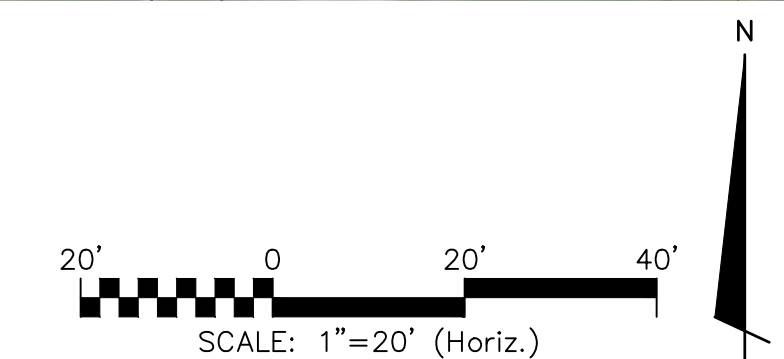
**AREA B - SITE IMPROVEMENTS
 AND LAYOUT PLAN**

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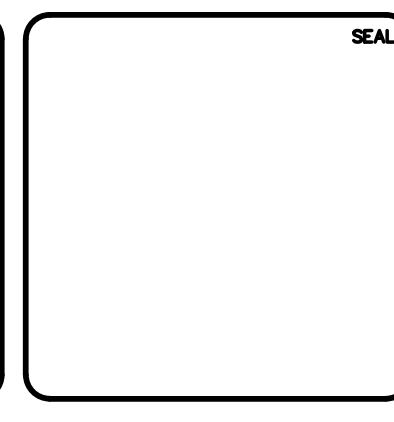
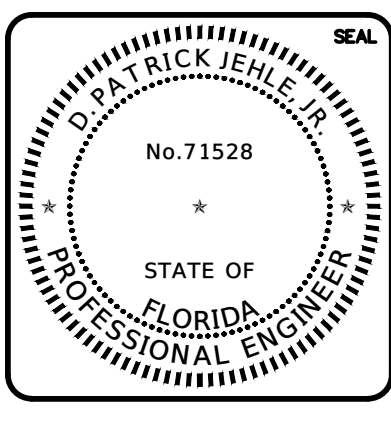
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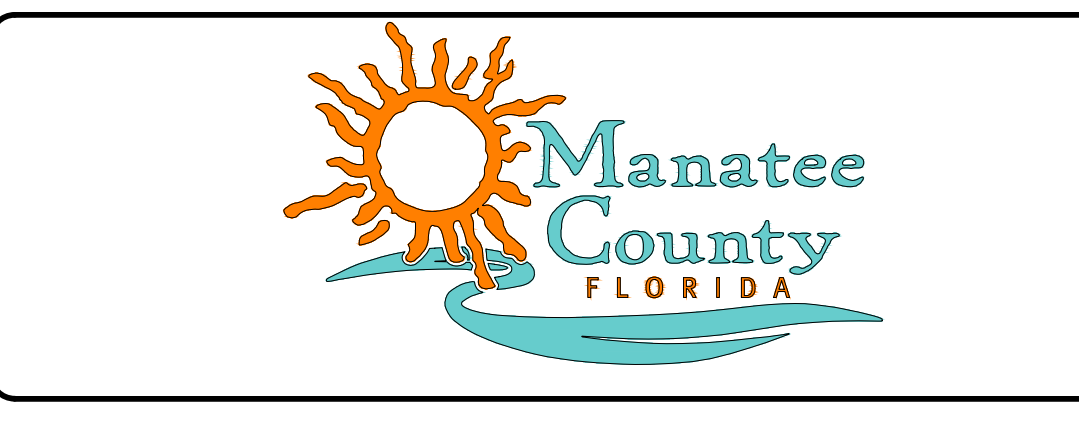
GRADING AND DRAINAGE PLAN



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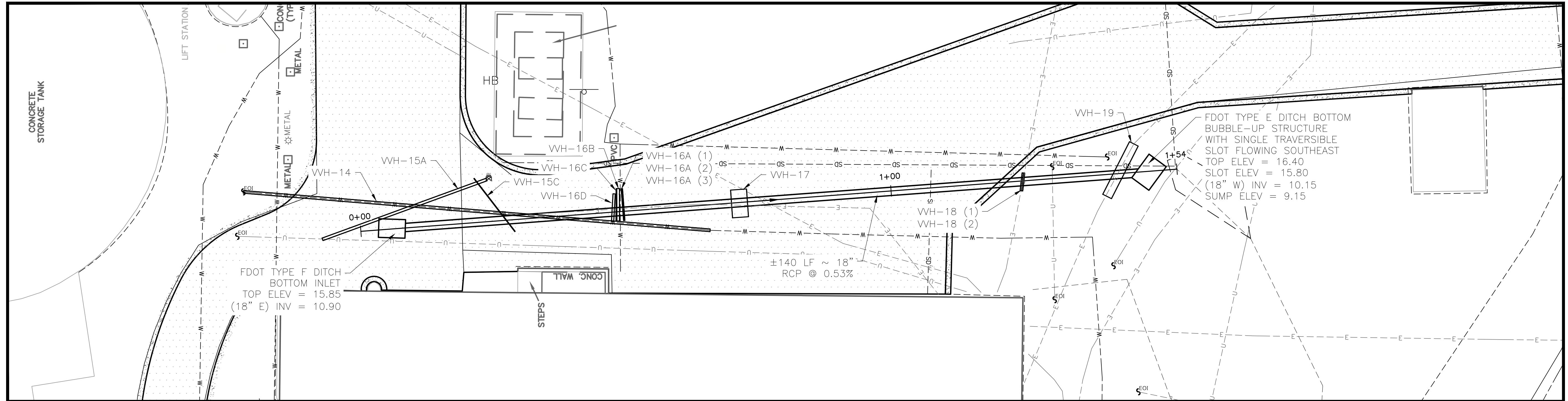
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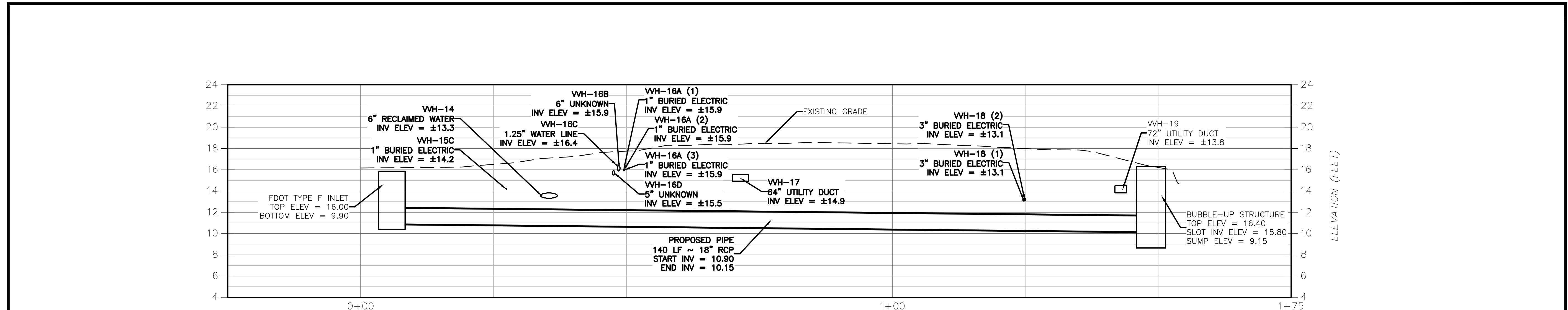
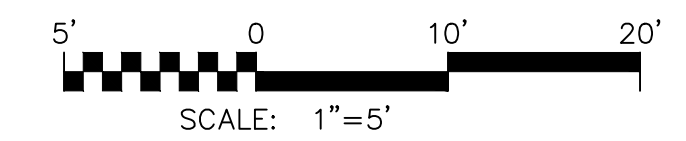
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AREA B - GRADING AND DRAINAGE PLAN

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| DRAWN: ALM | | |
| DESIGNED: ALM | | |
| CHECKED: DPJ | | |
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| STATUS: ISSUED FOR CONSTRUCTION | | |

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PLAN VIEW



AREA B CROSSING

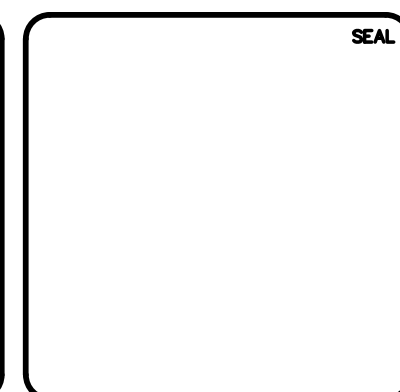
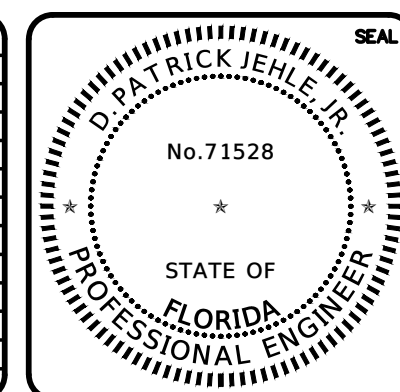
PROFILE VIEW

NOTES:

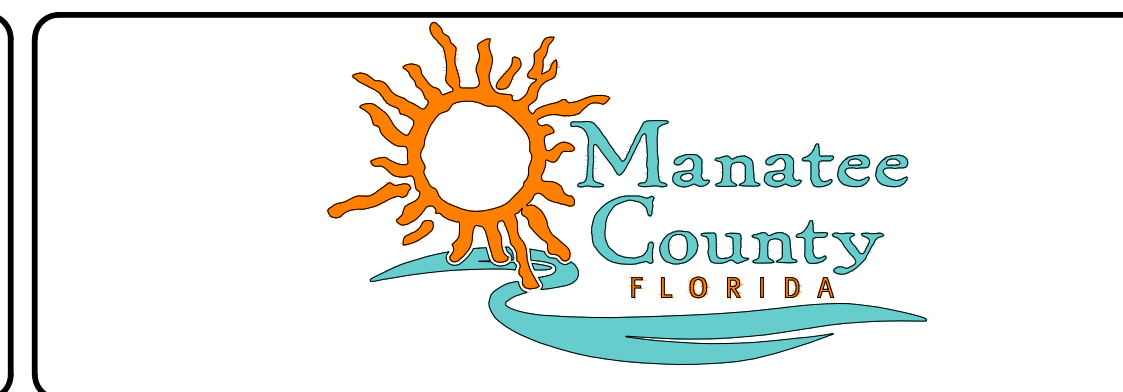
1. ALL EXISTING UTILITY ELEVATIONS SHOWN WERE OBTAINED FROM THE SUBSURFACE UTILITY ENGINEERING INVESTIGATION PERFORMED BY MCKIM & CREED, INC. DATED 08-17-21.

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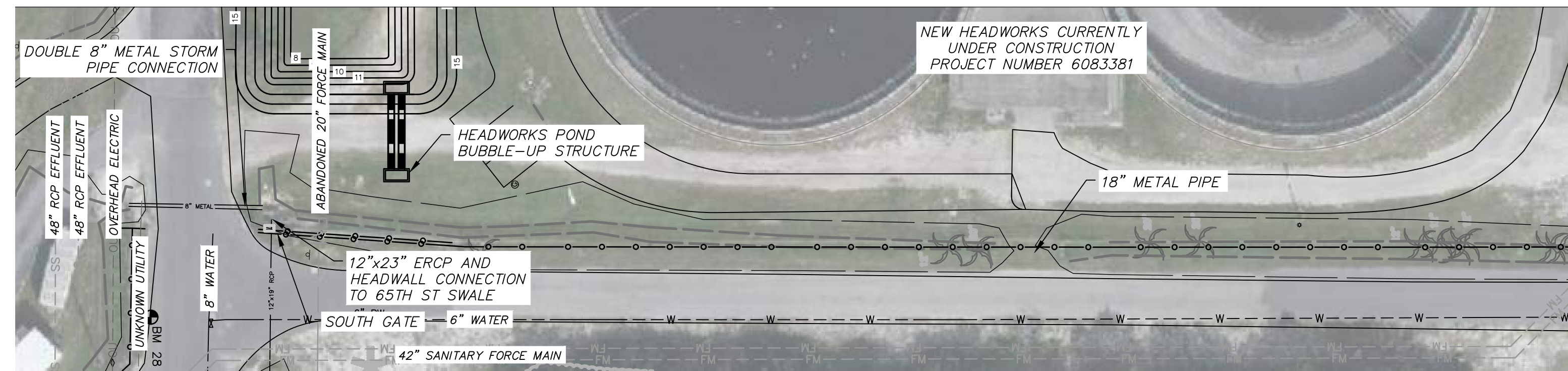
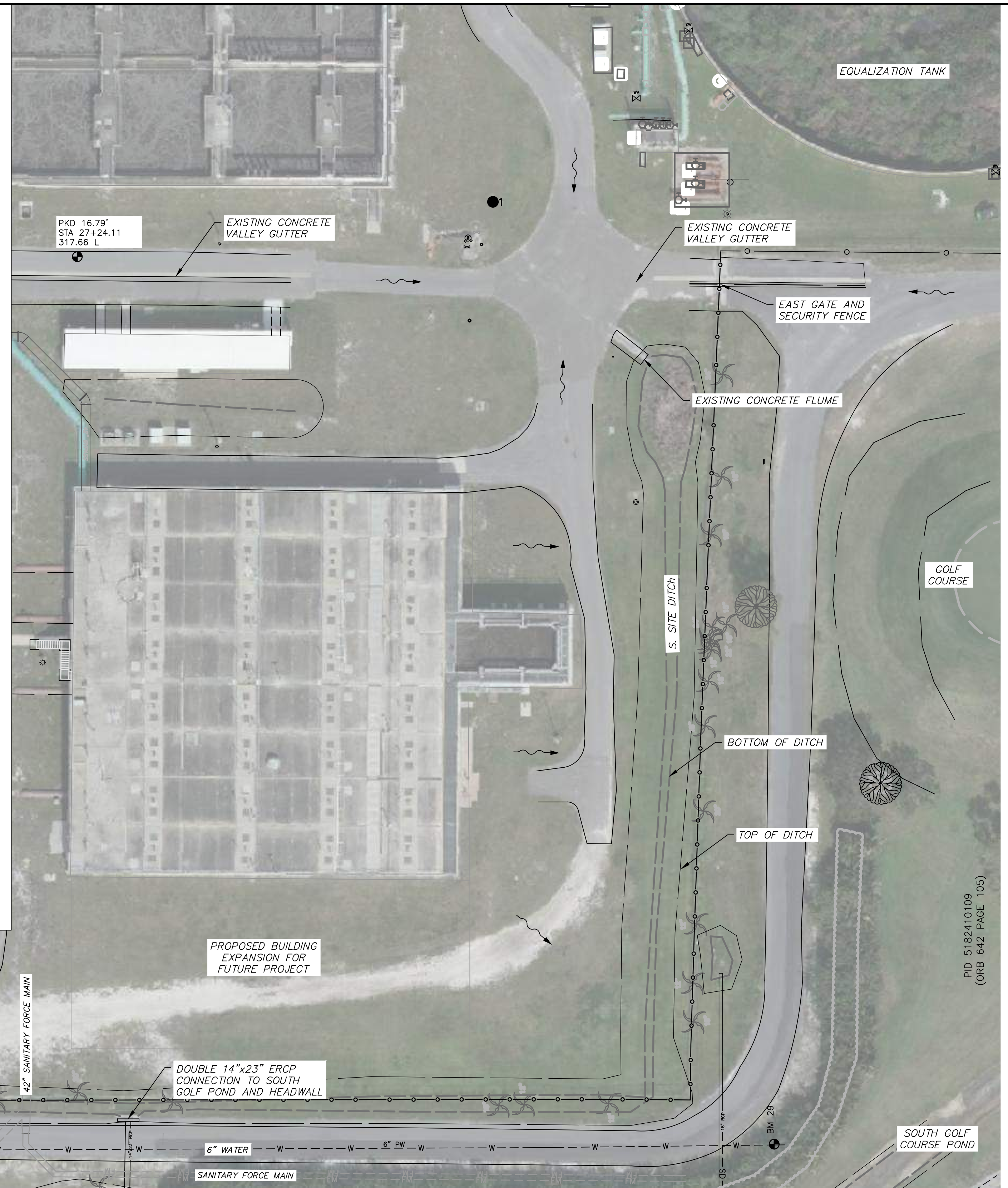


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AREA B - UTILITY PROFILE

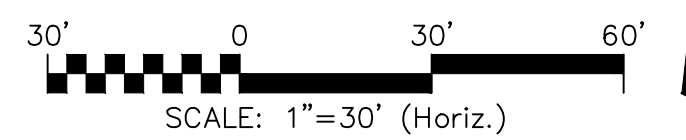
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| | REVISION |

STATUS: **ISSUED FOR CONSTRUCTION**

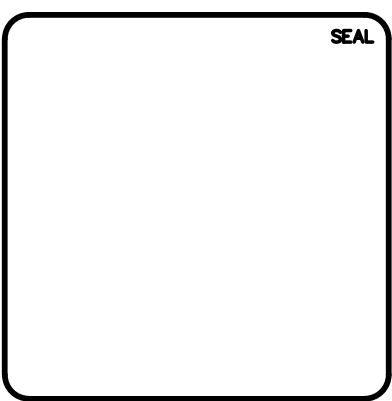
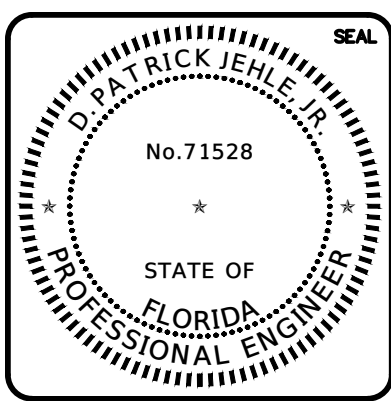


EXISTING CONDITIONS



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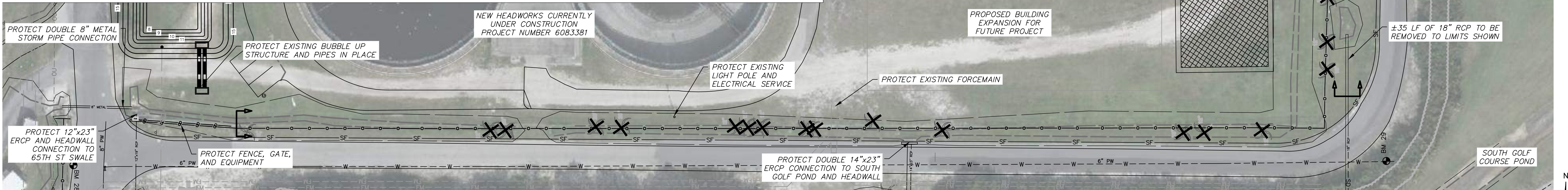
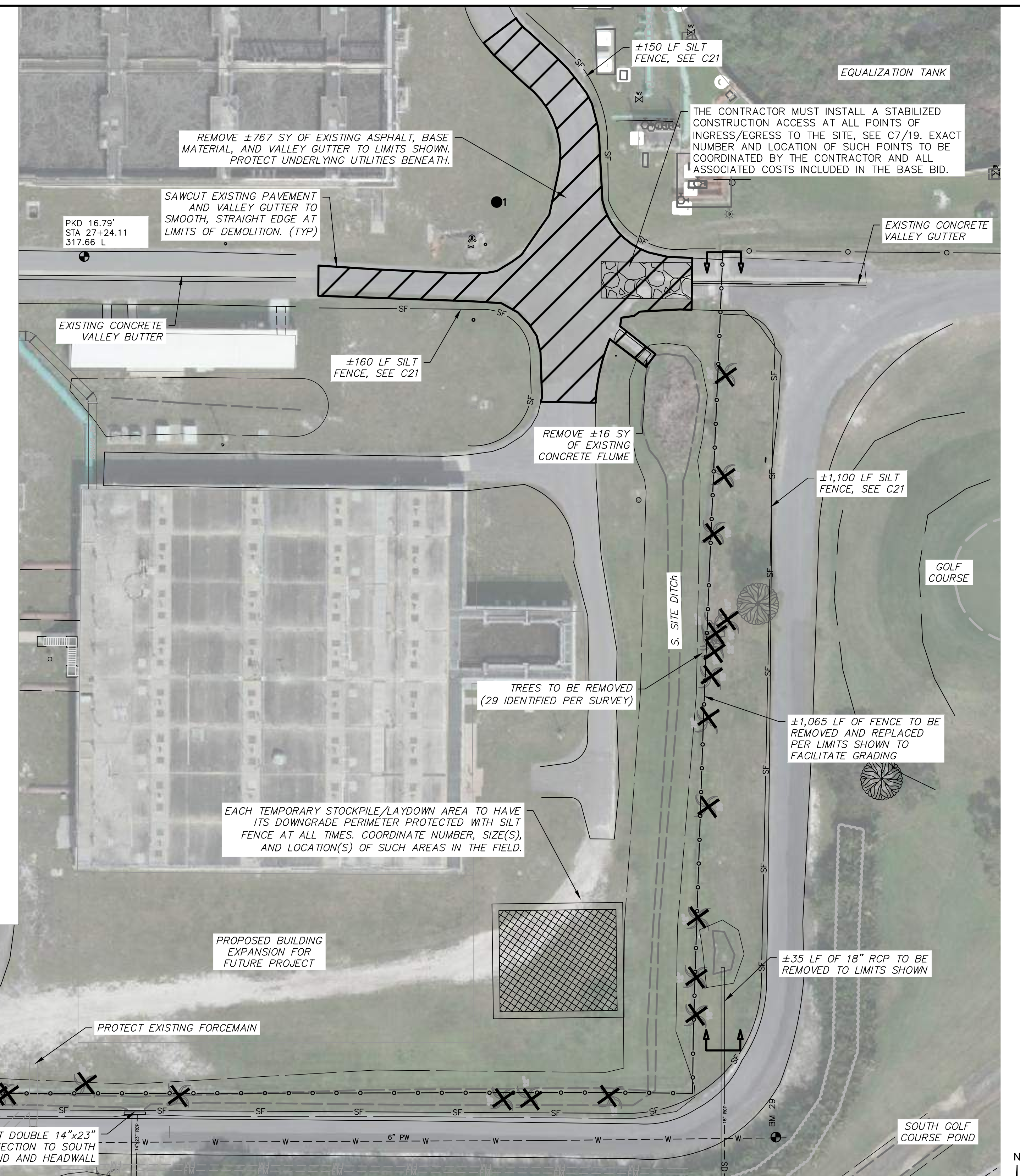
**SWRF
 STORMWATER SYSTEM REHABILITATION**

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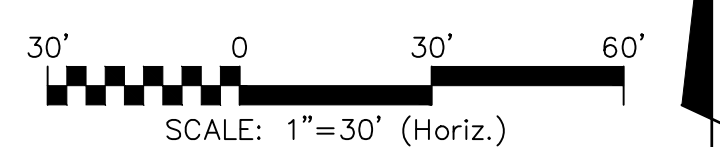
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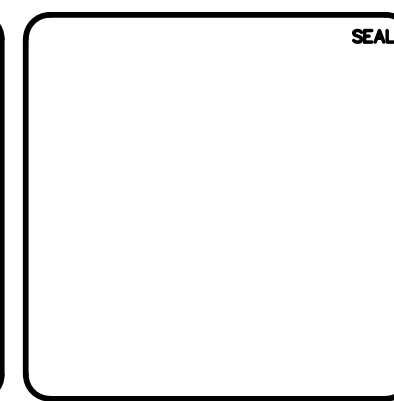
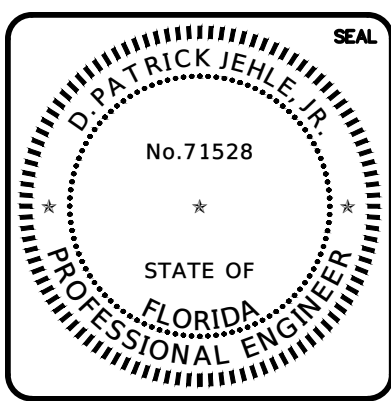
PID 5182410109 (ORB 642 PAGE 105)



DEMOLITION PLAN



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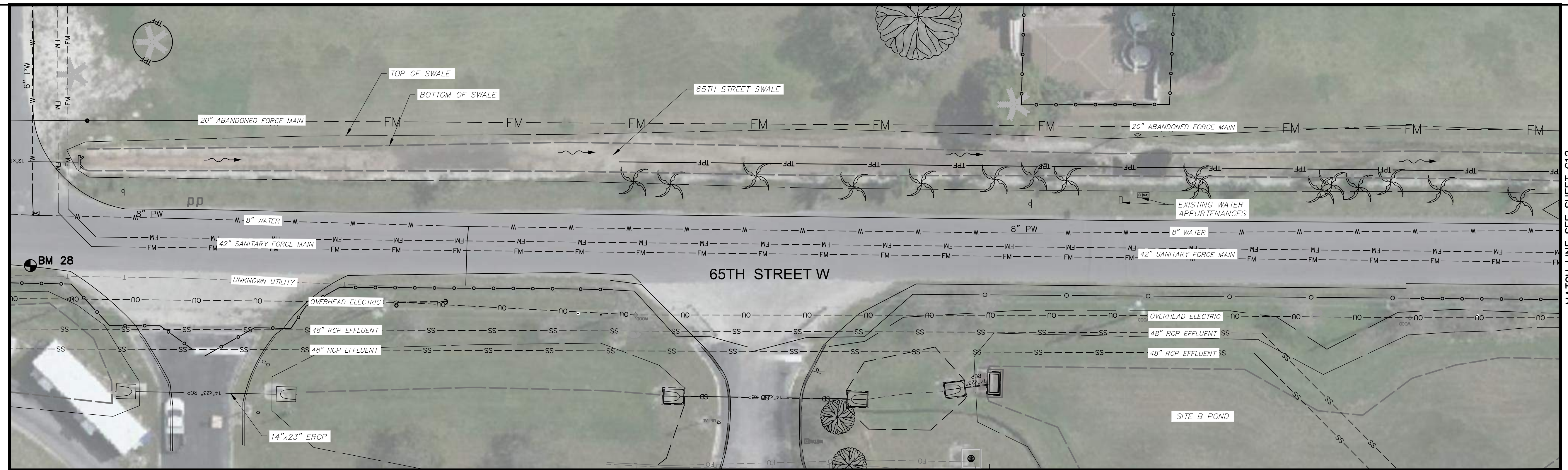
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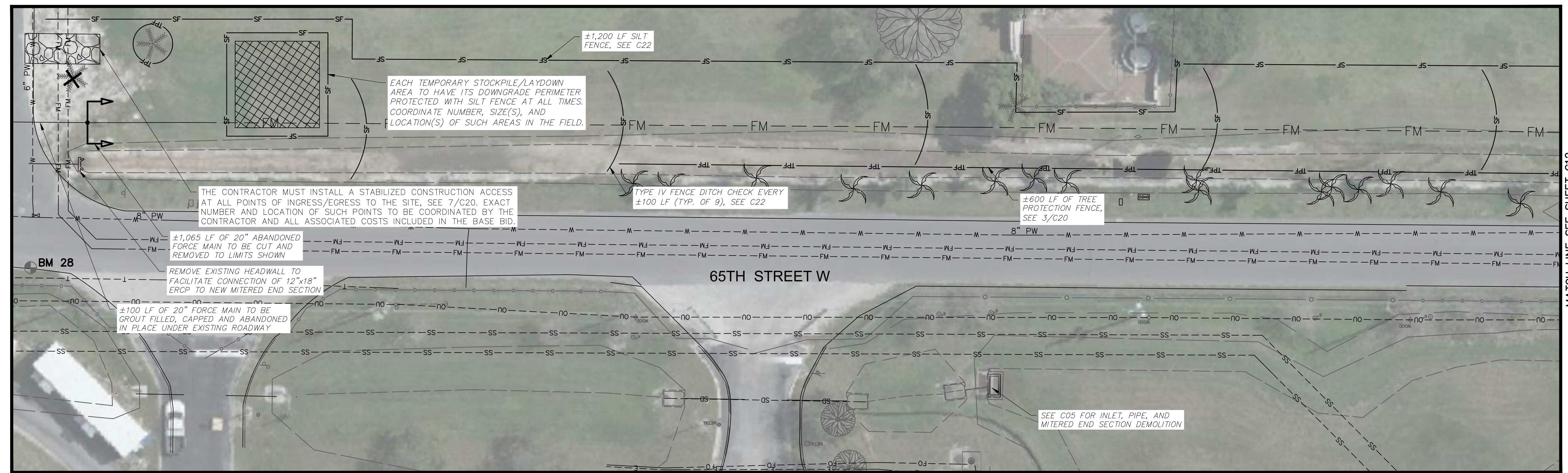
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 STORMWATER SYSTEM REHABILITATION**
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AREA C - DEMOLITION PLAN

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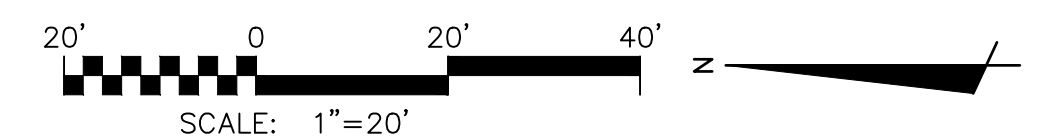
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EXISTING CONDITIONS

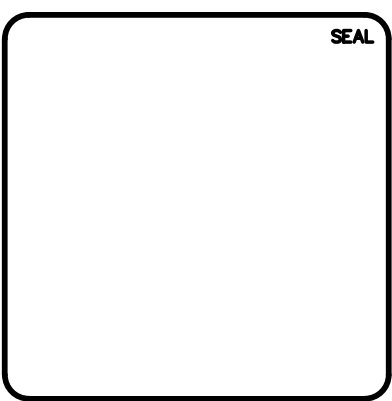
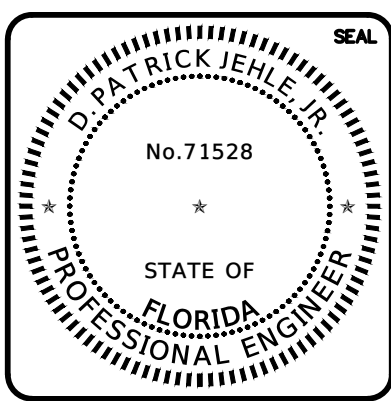


DEMOLITION PLAN



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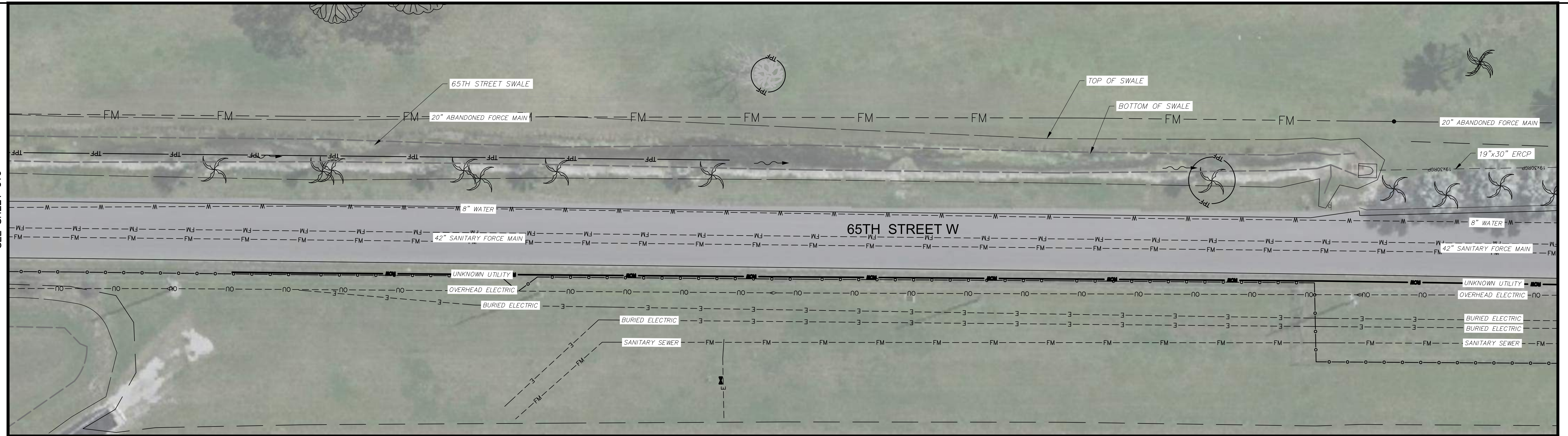
**SWRF
 STORMWATER SYSTEM REHABILITATION**

CIVIL

**AREA C - EXISTING CONDITIONS AND
 DEMOLITION PLAN.**

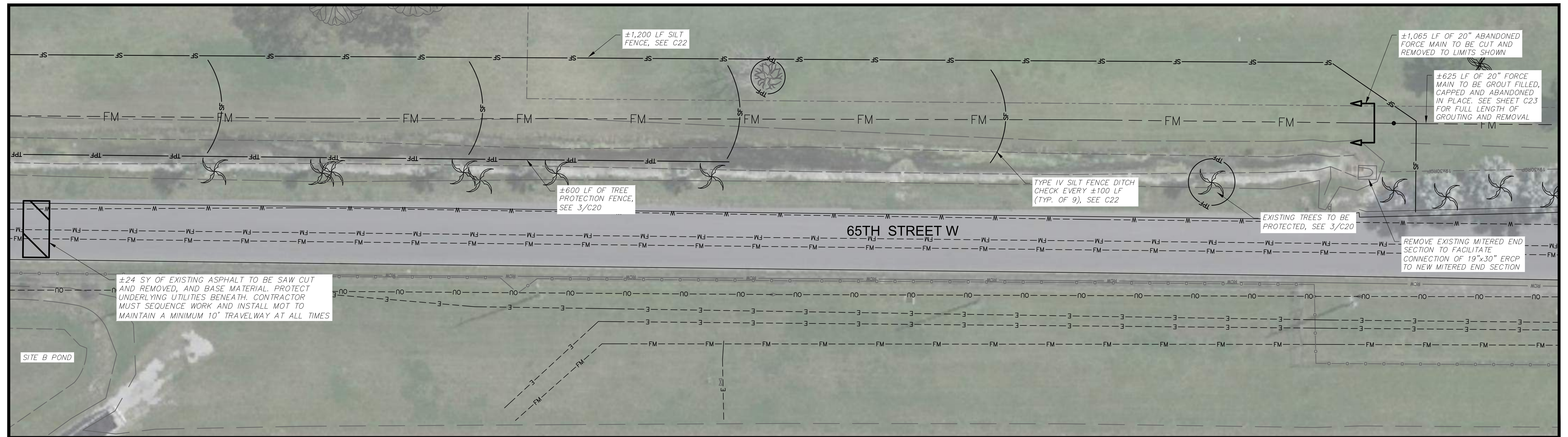
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| DATE: JULY 2022 | SCALE: HORIZONTAL: AS SHOWN VERTICAL: NA | DRAWING NUMBER: C11 |
| MCE PROJ. # 1024-0192 | | |
| DRAWN: ALM | | |
| DESIGNED: ALM | | |
| CHECKED: DPJ | ISSUED FOR CONSTRUCTION | |
| PROJ. MGR. TLW | | |
| STATUS: | A REVISION | |

MATCH LINE STA: 116+00
SEE SHEET C10



EXISTING CONDITIONS

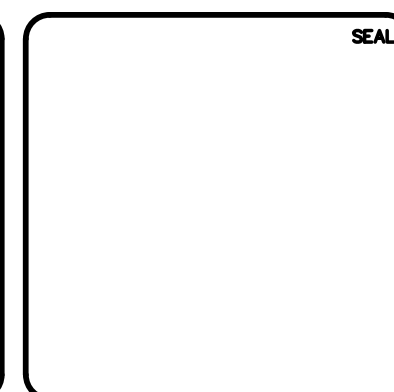
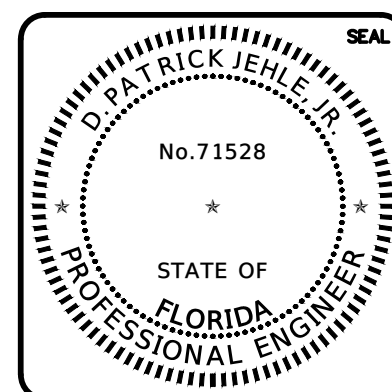
MATCH LINE SEE SHEET C11



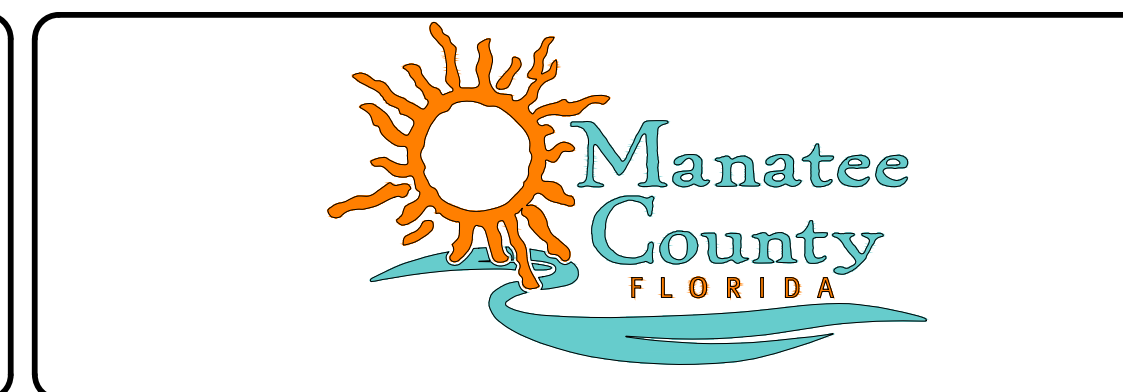
DEMOLITION PLAN



| REV. NO. | DESCRIPTIONS | DATE |
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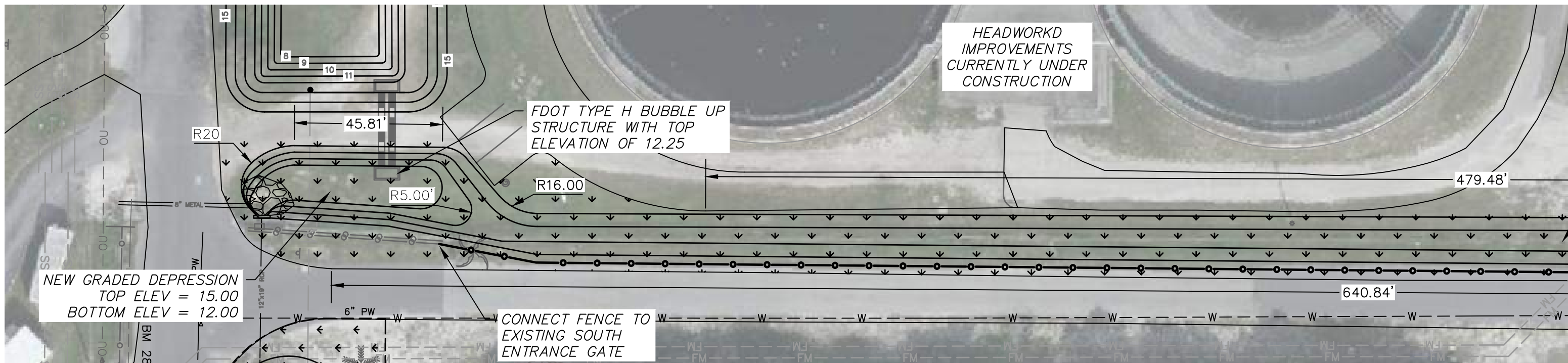
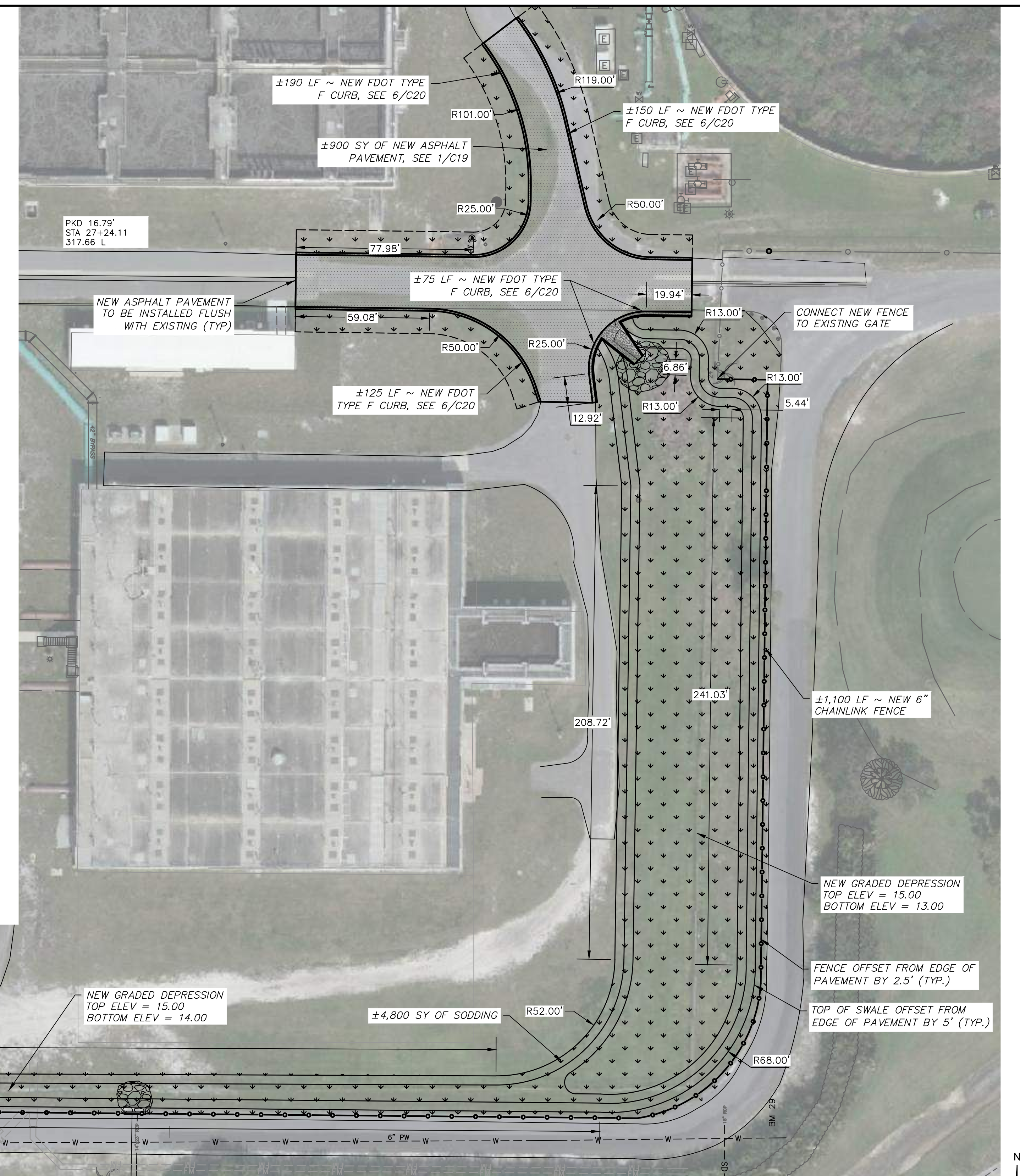
**SWRF
 STORMWATER SYSTEM REHABILITATION**

CIVIL

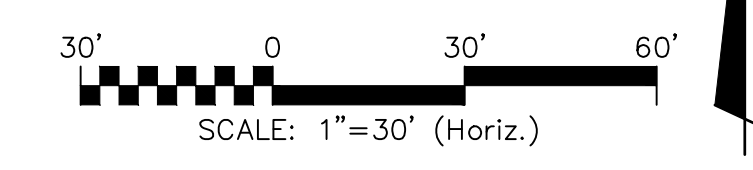
**AREA C - EXISTING CONDITIONS AND
 DEMOLITION PLAN**

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| MCE PROJ. # 1024-0192 | VERTICAL: NA | A REVISION |
| DRAWN: ALM | | |
| DESIGNED: ALM | | |
| CHECKED: DPJ | | |
| PROJ. MGR. TLW | | |
| STATUS: FOR CONSTRUCTION | ISSUED | |

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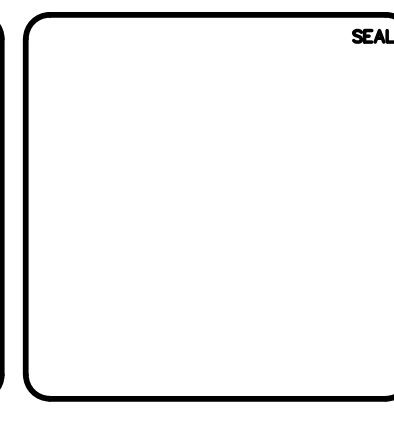
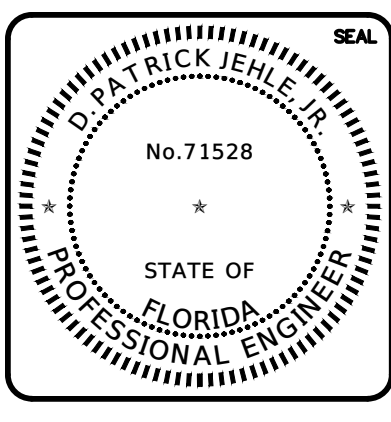


IMPROVEMENTS AND LAYOUT PLAN



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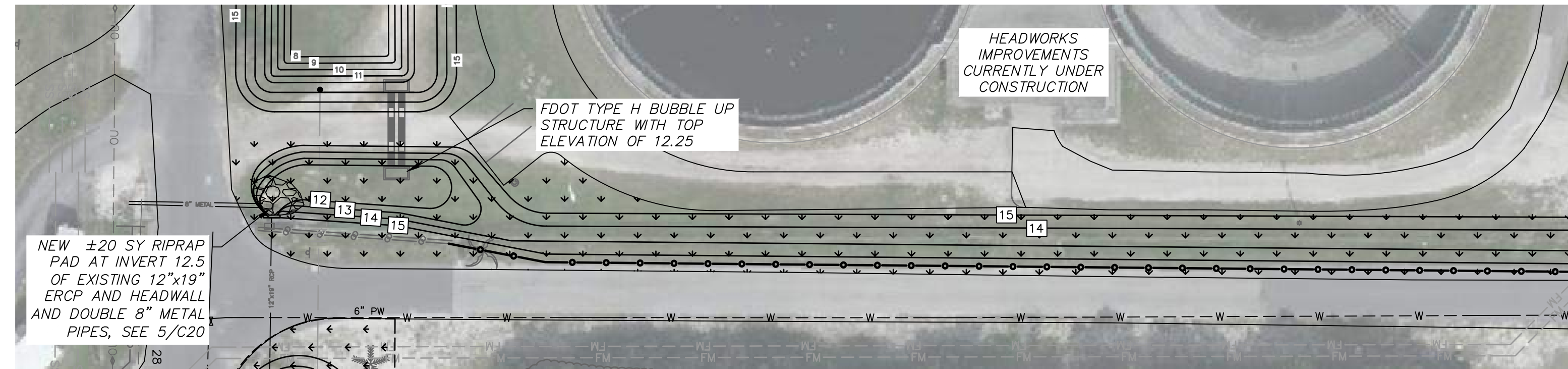
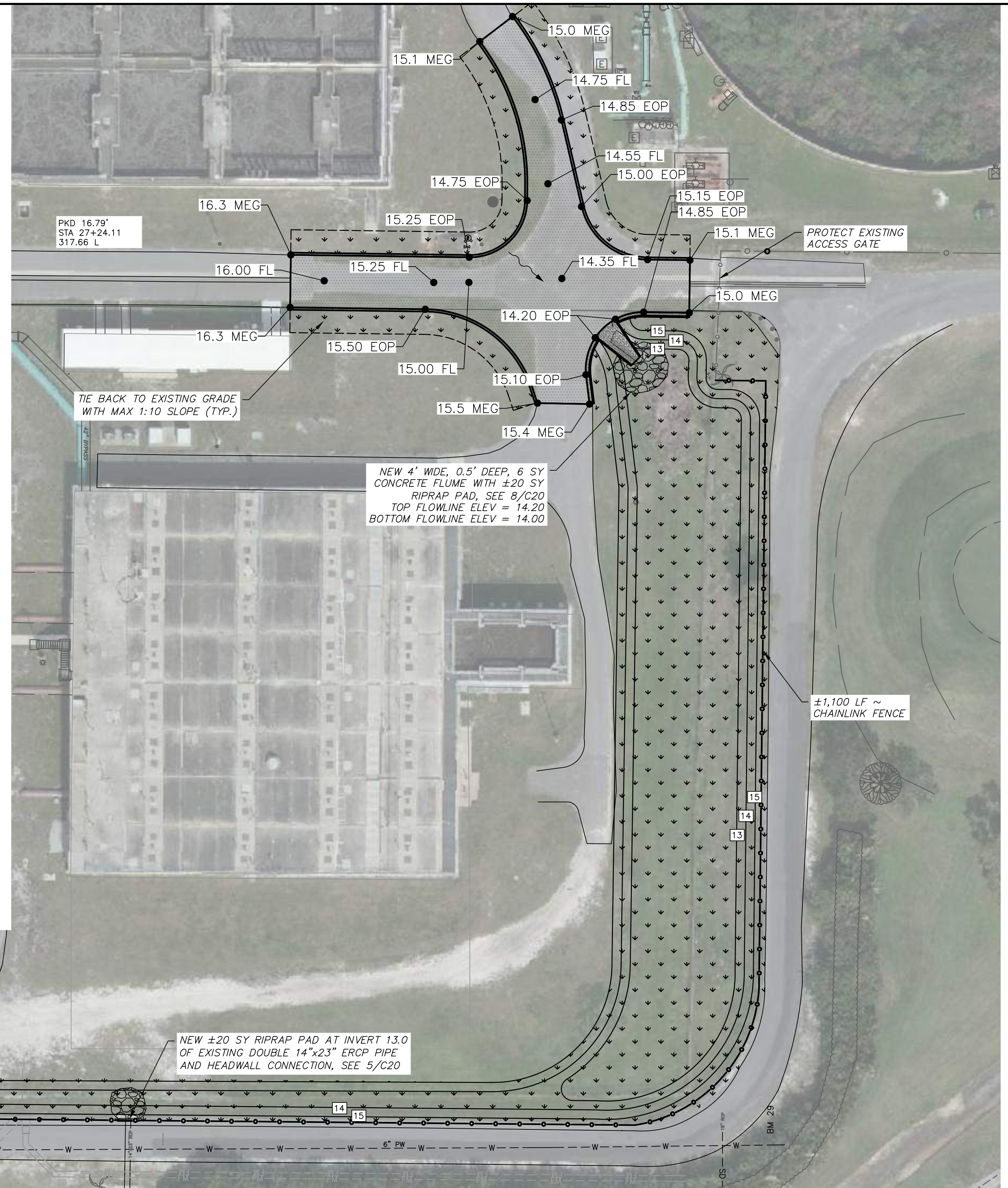


**SWRF
STORMWATER SYSTEM REHABILITATION**

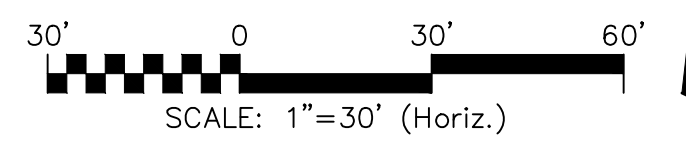
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**AREA C - SITE IMPROVEMENTS
AND LAYOUT PLAN**

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| DATE: JULY 2022 | SCALE: AS SHOWN | DRAWING NUMBER: C13 |
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| CHECKED: DPJ | | |
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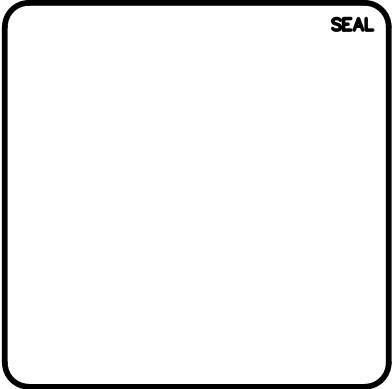
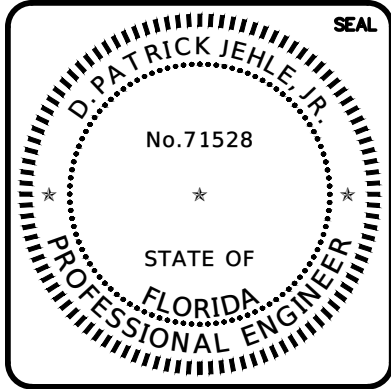


GRADING AND DRAINAGE PLAN



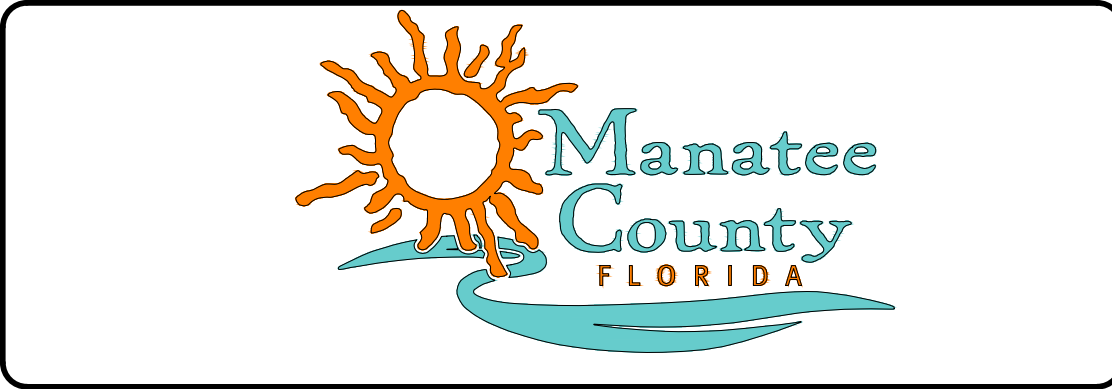
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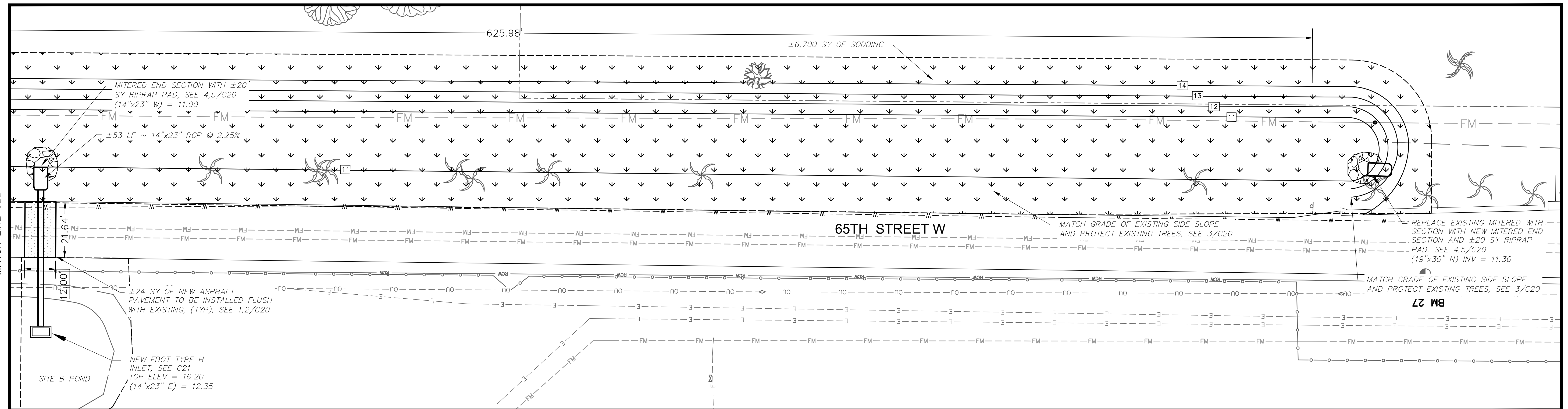
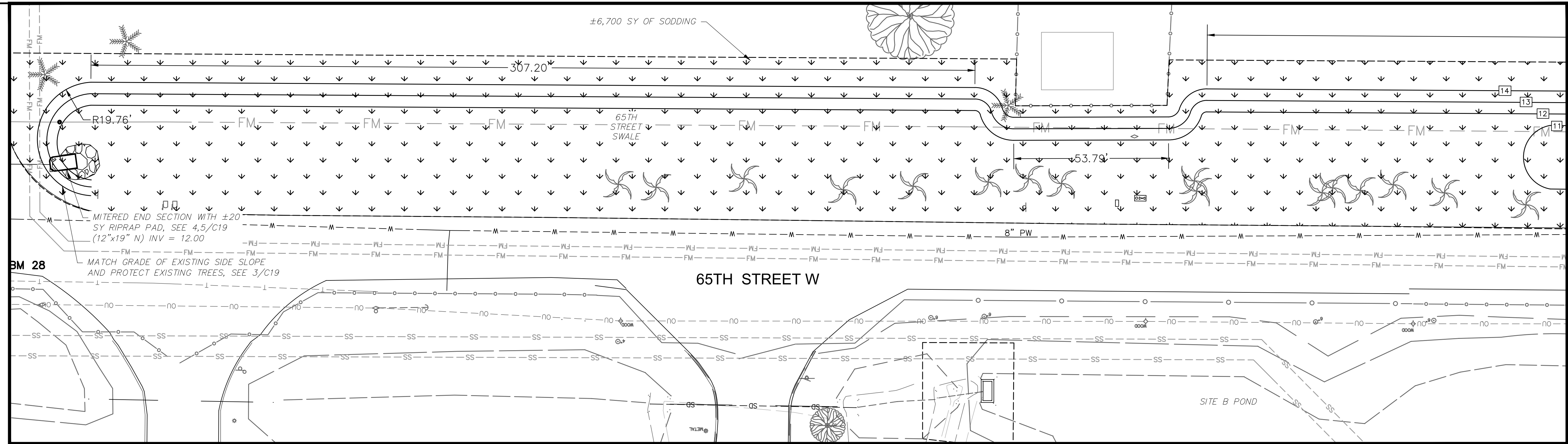


**SWRF
STORMWATER SYSTEM REHABILITATION**

CIVIL
**AREA C - GRADING AND
DRAINAGE PLAN**

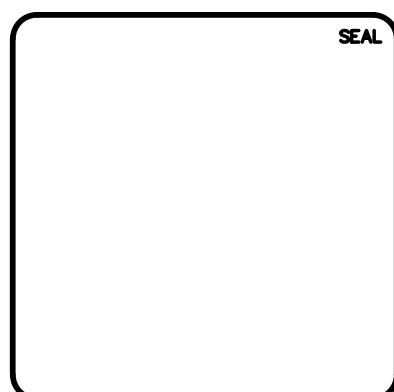
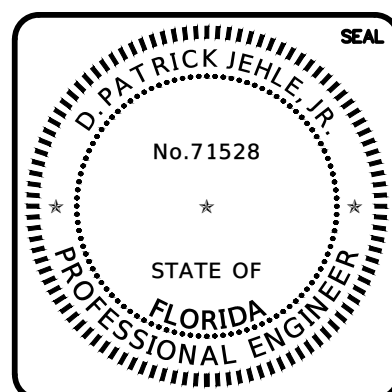
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| MCE PROJ. # | 1024-0192 |
| DRAWN | ALM |
| DESIGNED | ALM |
| CHECKED | DPJ |
| PROJ. MGR. | TLW |

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| SCALE | DRAWING NUMBER C14 |
| HORIZONTAL: AS SHOWN | |
| VERTICAL: NA | |
| STATUS: | ISSUED FOR CONSTRUCTION |



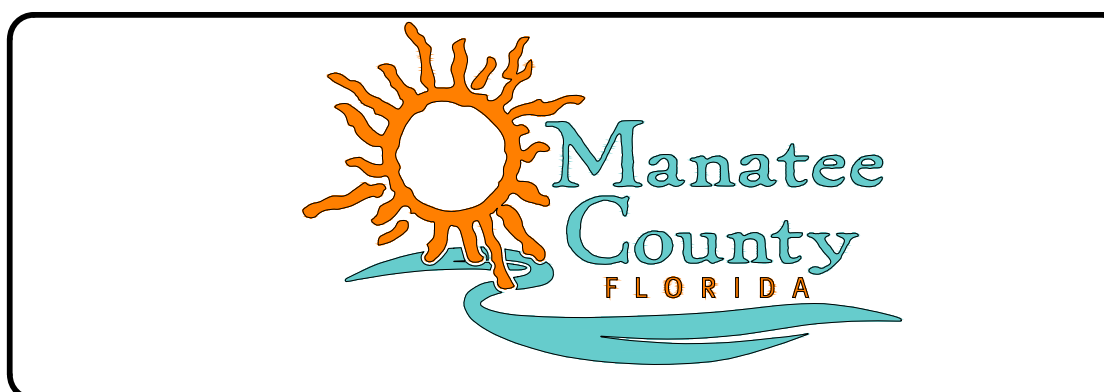
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AREA C - SITE IMPROVEMENTS PLAN

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|-------------|-------------------------|
| DATE: | JULY 2022 |
| MCE PROJ. # | 1024-0192 |
| DRAWN | ALM |
| DESIGNED | ALM |
| CHECKED | DPJ |
| PROJ. MGR. | TLW |
| STATUS: | ISSUED FOR CONSTRUCTION |

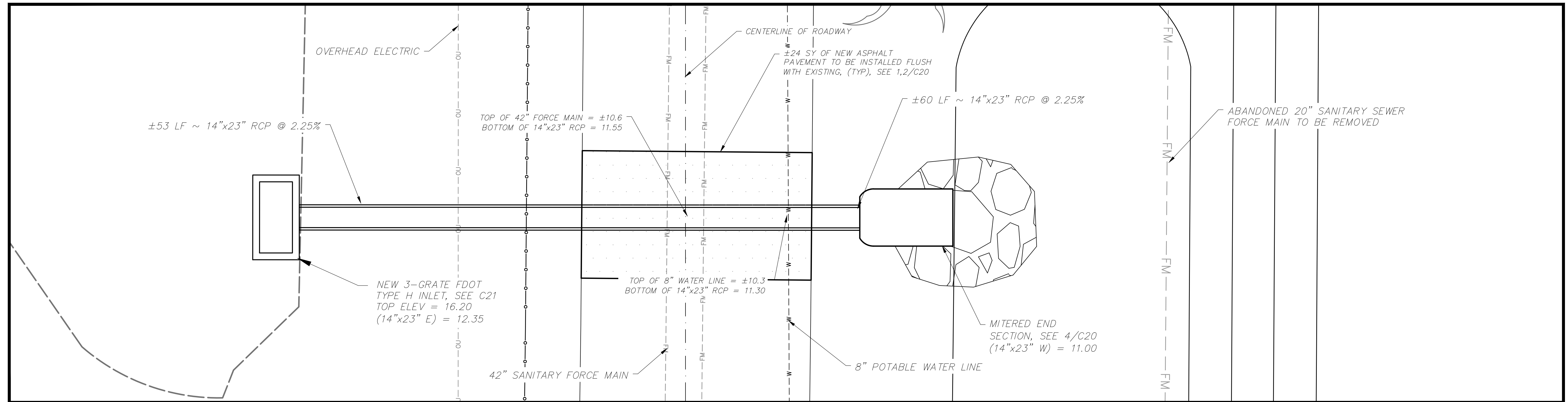
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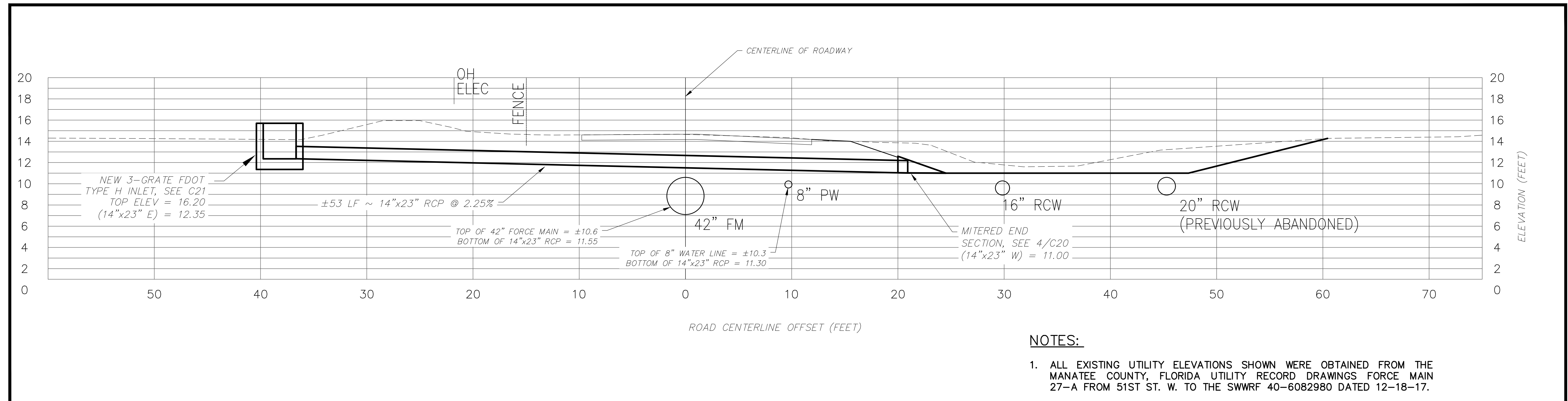
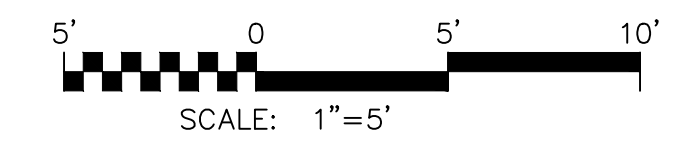
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AS SHOWN

DRAWING NUMBER
C15

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REVISION



PLAN VIEW



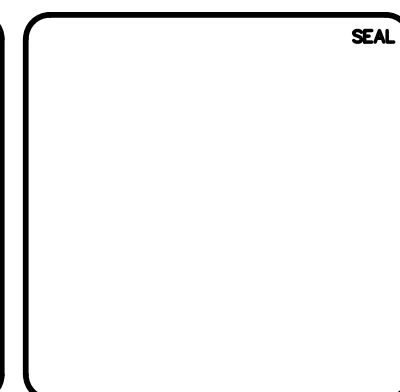
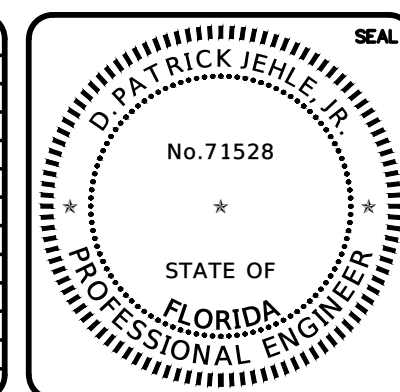
NOTES:

1. ALL EXISTING UTILITY ELEVATIONS SHOWN WERE OBTAINED FROM THE MANATEE COUNTY, FLORIDA UTILITY RECORD DRAWINGS FORCE MAIN 27-A FROM 51ST ST. W. TO THE SWWRF 40-6082980 DATED 12-18-17.

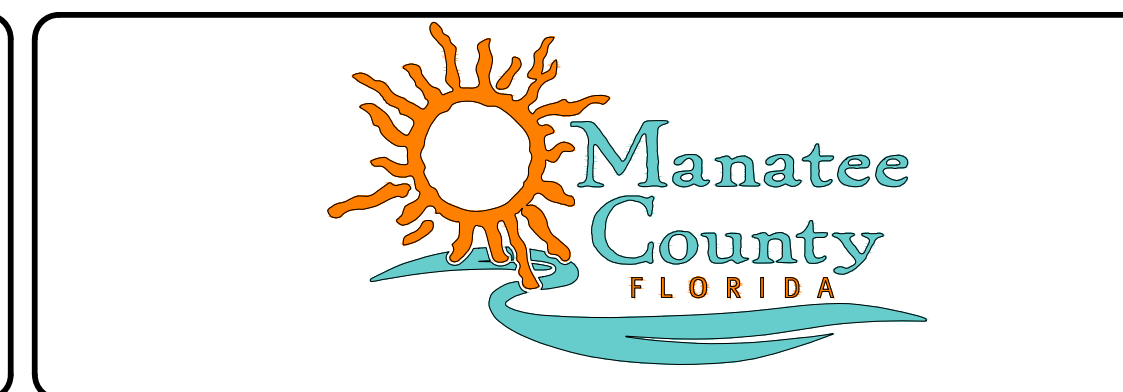
PROFILE VIEW

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 STORMWATER SYSTEM REHABILITATION**

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**AREA C - 65TH STREET CROSSING
 PROFILE**

| | |
|-------------|-----------|
| DATE: | JULY 2022 |
| MCE PROJ. # | 1024-0192 |
| DRAWN | ALM |
| DESIGNED | ALM |
| CHECKED | DPJ |
| PROJ. MGR. | TLW |

SCALE
 HORIZONTAL: AS SHOWN
 VERTICAL: AS SHOWN

DRAWING NUMBER
C16

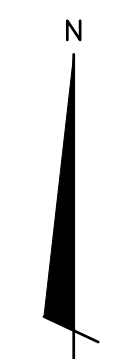
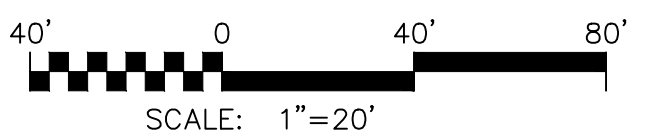
ISSUED FOR CONSTRUCTION



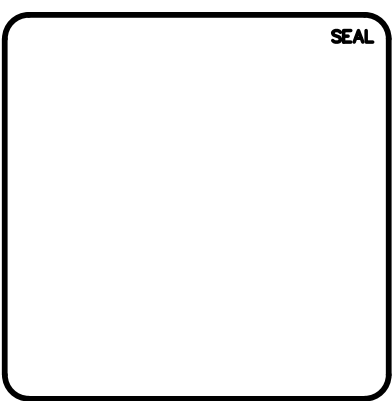
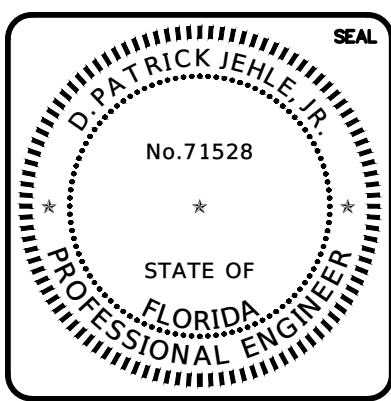
EXISTING CONDITIONS



DEMOLITION PLAN



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**AREA D - EXISTING CONDITIONS AND
 DEMOLITION PLAN.**

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| DATE: | JULY 2022 |
| MCE PROJ. # | 1024-0192 |
| DRAWN | ALM |
| DESIGNED | ALM |
| CHECKED | DPJ |
| PROJ. MGR. | TLW |

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| SCALE | DRAWING NUMBER |
| HORIZONTAL: AS SHOWN | C17 |
| VERTICAL: NA | A |
| | REVISION |

STATUS: **ISSUED FOR CONSTRUCTION**

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NOT TO SCALE

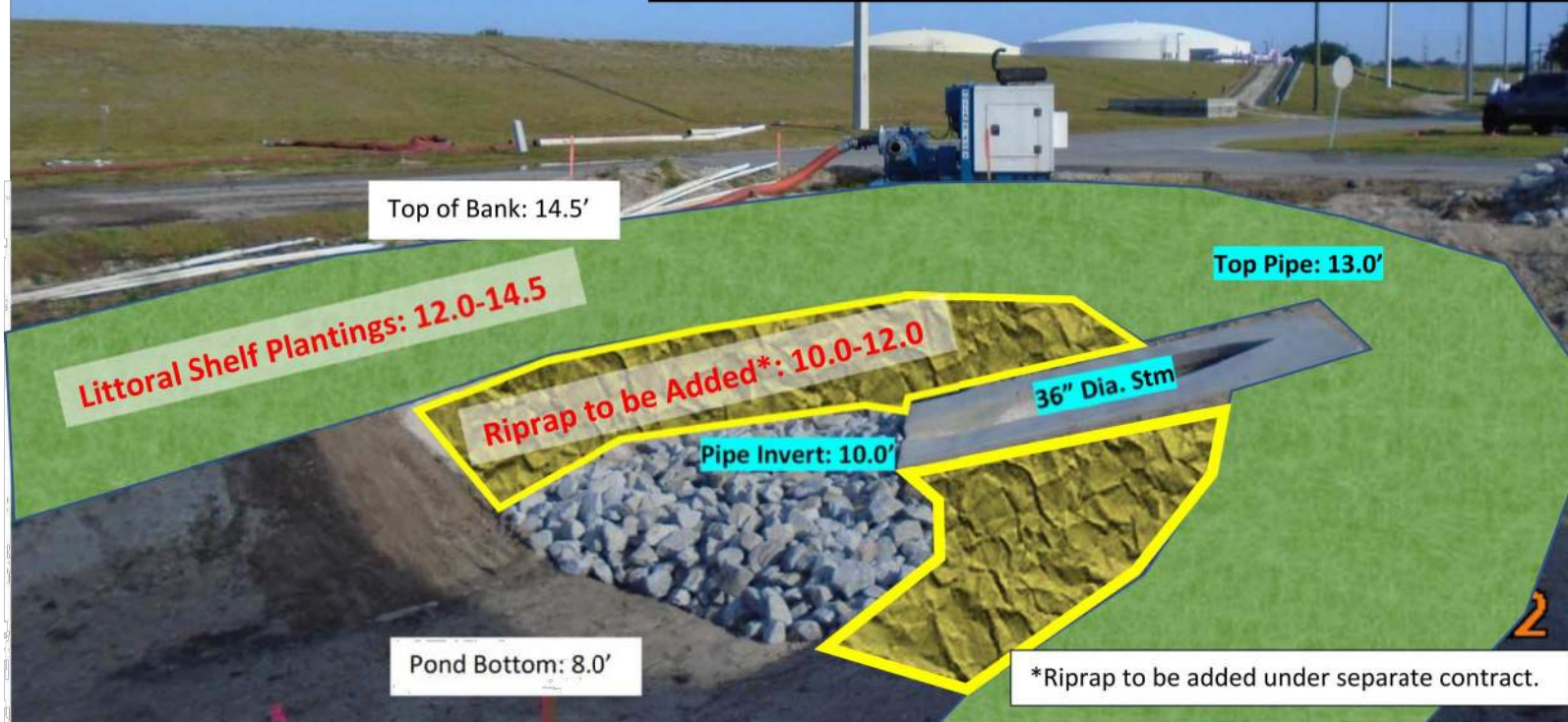
C21



CURRENT CONDITIONS

05 02 2022

PROPOSED AND FUTURE SURFACE CONDITIONS



Top of Bank: 14.5'

Top Pipe: 13.0'

Littoral Shelf Plantings: 12.0-14.5

Riprap to be Added: 10.0-12.0

Pipe Invert: 10.0'

36\"/>

Pond Bottom: 8.0'

*Riprap to be added under separate contract.

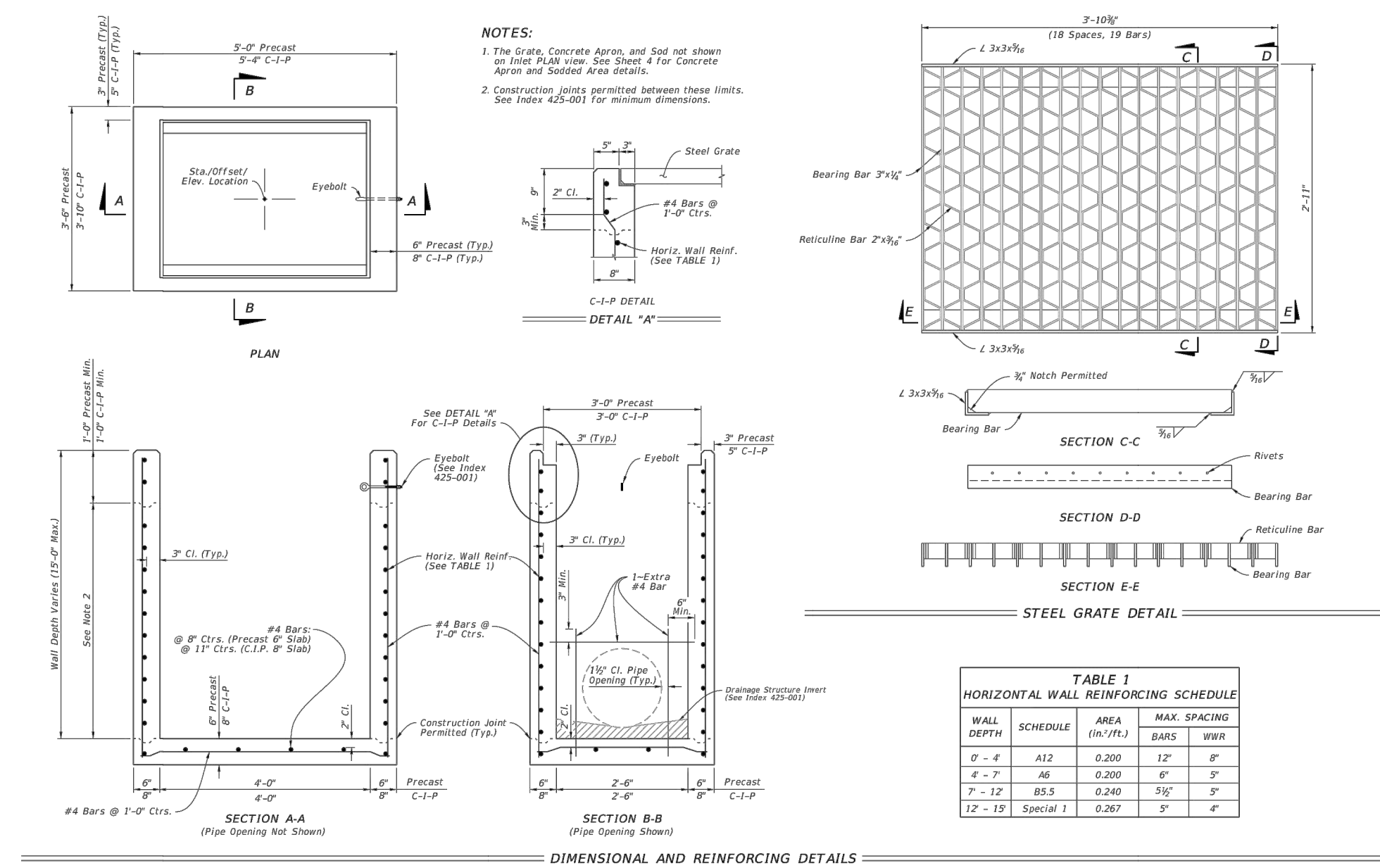


TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

| WALL DEPTH | SCHEDULE | AREA (sq./FT.) | MAX. SPACING BARS | WWR |
|------------|-----------|----------------|-------------------|-----|
| 0' - 4' | A12 | 0.200 | 12" | 6" |
| 4' - 7' | A6 | 0.200 | 6" | 5" |
| 7' - 12' | B5.5 | 0.240 | 5 1/2" | 5" |
| 12' - 19' | Special 1 | 0.267 | 5" | 4" |

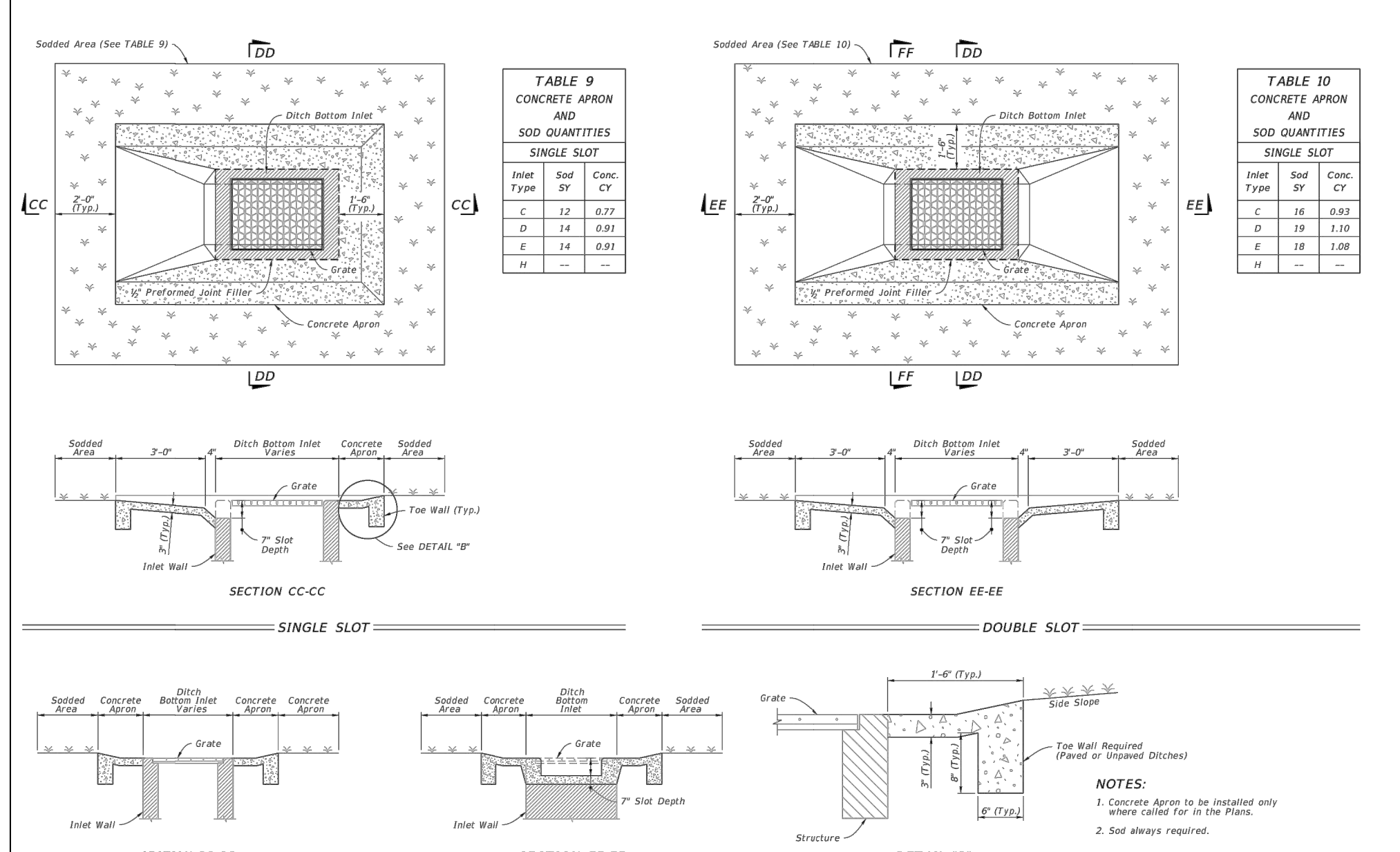


TABLE 9
CONCRETE APRON AND SOD QUANTITIES

| SINGLE SLOT | | |
|-------------|--------|----------|
| Inlet Type | Sod SY | Conc. CY |
| C | 12 | 0.77 |
| D | 14 | 0.91 |
| E | 14 | 0.91 |
| H | --- | --- |

TABLE 10
CONCRETE APRON AND SOD QUANTITIES

| SINGLE SLOT | | |
|-------------|--------|----------|
| Inlet Type | Sod SY | Conc. CY |
| C | 16 | 0.93 |
| D | 19 | 1.05 |
| E | 18 | 1.08 |
| H | --- | --- |

LAST REVISION: 11/01/20 | DESCRIPTION: FDOT | FY 2021-22 STANDARD PLANS | DITCH BOTTOM INLET TYPE F AND G | INDEX: 425-053 | SHEET: 2 of 4

LAST REVISION: 11/01/20 | DESCRIPTION: FDOT | FY 2021-22 STANDARD PLANS | DITCH BOTTOM INLET TYPE C, D, E, AND H | INDEX: 425-052 | SHEET: 10 of 14

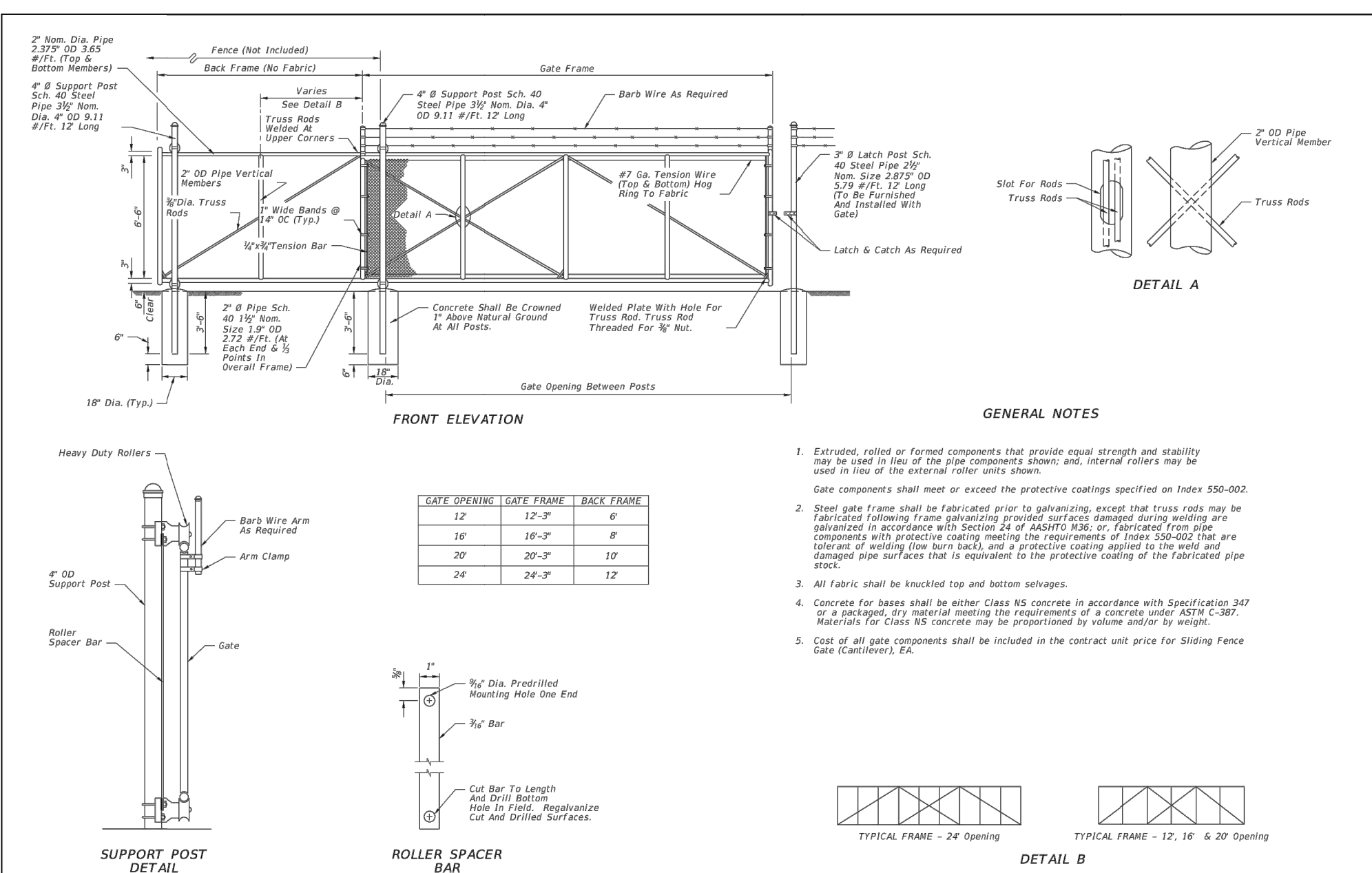


TABLE 3
GATE OPENING

| GATE OPENING | GATE FRAME | BACK FRAME |
|--------------|------------|------------|
| 12' | 12'-3" | 0" |
| 16' | 16'-3" | 0" |
| 20' | 20'-3" | 10" |
| 24' | 24'-3" | 12" |

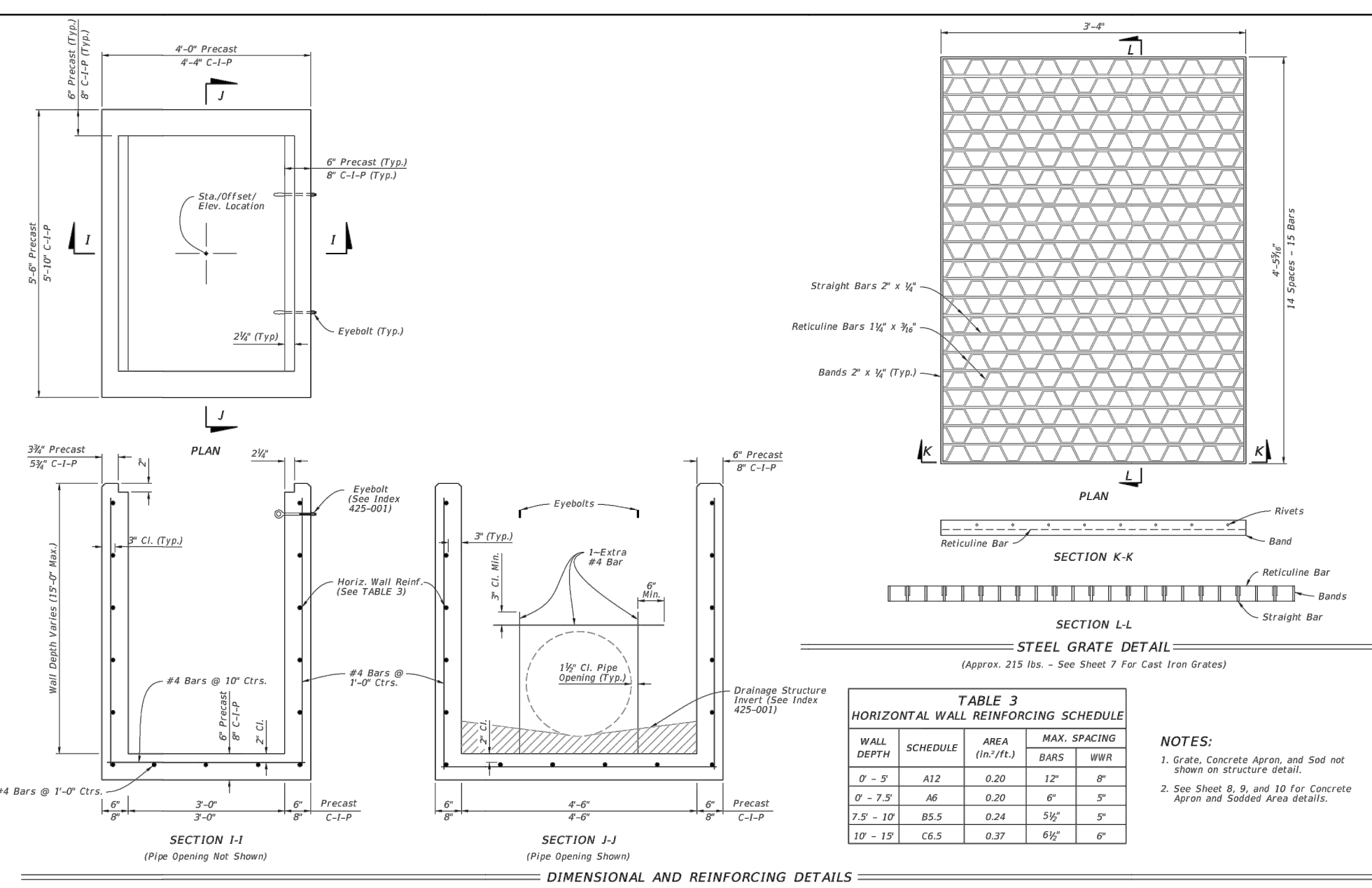


TABLE 4
HORIZONTAL WALL REINFORCING SCHEDULE

| WALL DEPTH | SCHEDULE | AREA (sq./FT.) | MAX. SPACING BARS | WWR |
|------------|----------|----------------|-------------------|-----|
| 0' - 7.5' | A12 | 0.20 | 12" | 6" |
| 7.5' - 10' | B5.5 | 0.24 | 5 1/2" | 5" |
| 10' - 19' | C6.5 | 0.37 | 6 1/2" | 4" |

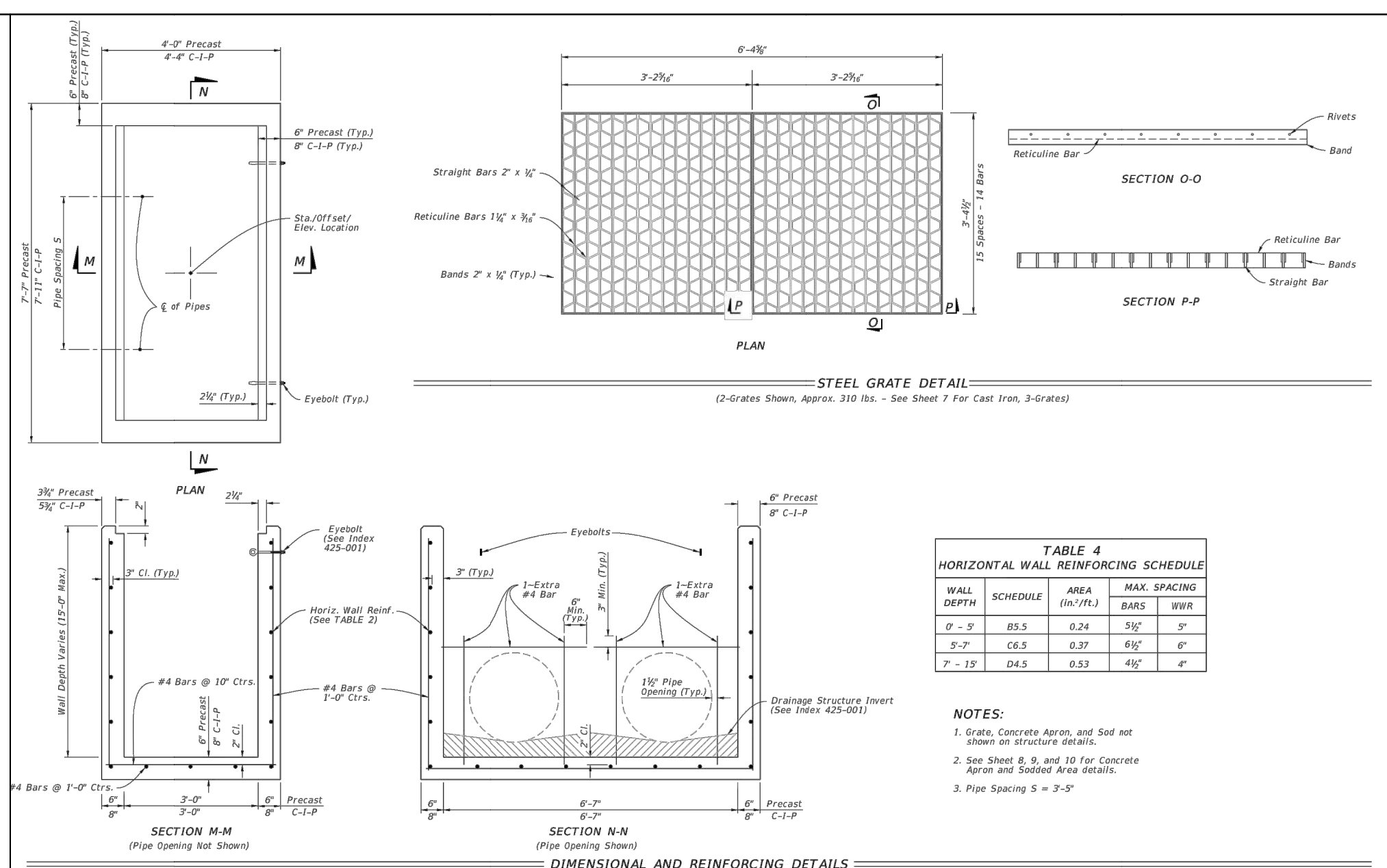


TABLE 5
HORIZONTAL WALL REINFORCING SCHEDULE

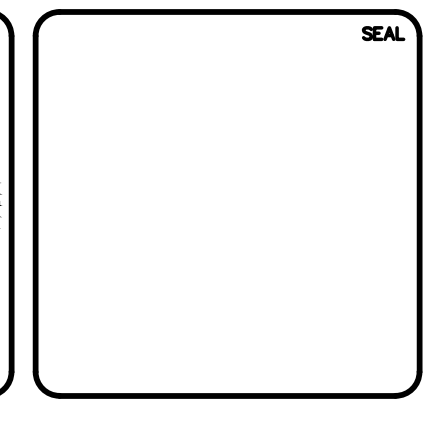
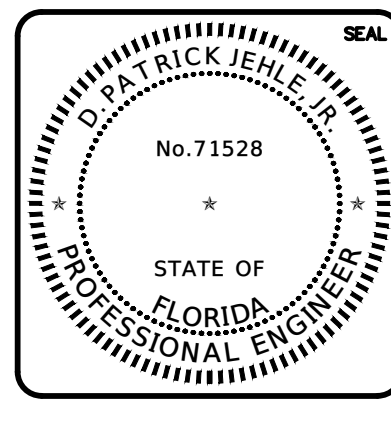
| WALL DEPTH | SCHEDULE | AREA (sq./FT.) | MAX. SPACING BARS | WWR |
|------------|----------|----------------|-------------------|-----|
| 0' - 7' | B5.5 | 0.24 | 5 1/2" | 5" |
| 7' - 12' | C6.5 | 0.37 | 6 1/2" | 4" |
| 12' - 19' | D4.5 | 0.53 | 4 1/2" | 4" |

LAST REVISION: 11/01/20 | DESCRIPTION: FDOT | FY 2021-22 STANDARD PLANS | DITCH BOTTOM INLET TYPE C, D, E, AND H | INDEX: 425-052 | SHEET: 4 of 14

LAST REVISION: 11/01/20 | DESCRIPTION: FDOT | FY 2021-22 STANDARD PLANS | DITCH BOTTOM INLET TYPE C, D, E, AND H | INDEX: 425-052 | SHEET: 5 of 14

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SWRF STORMWATER SYSTEM REHABILITATION

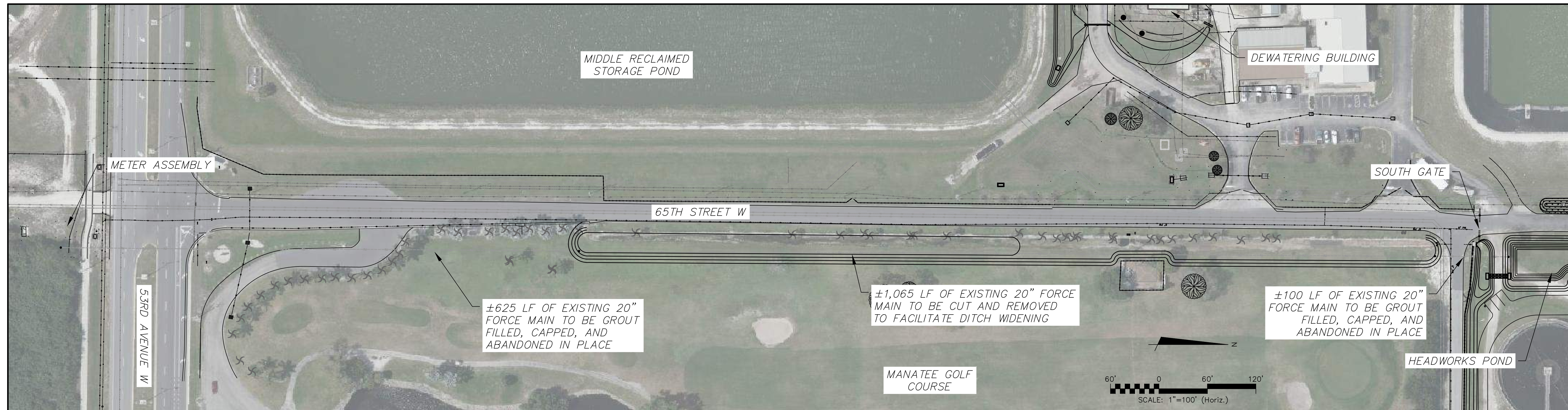
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DATE: JULY 2022
MCE PROJ. #: 1024-0192
DRAWN: ALM
DESIGNED: ALM
CHECKED: DPJ
PROJ. MGR.: TLW

SCALE: HORIZONTAL: AS SHOWN, VERTICAL: NA

DRAWING NUMBER: C21
REVISION: A

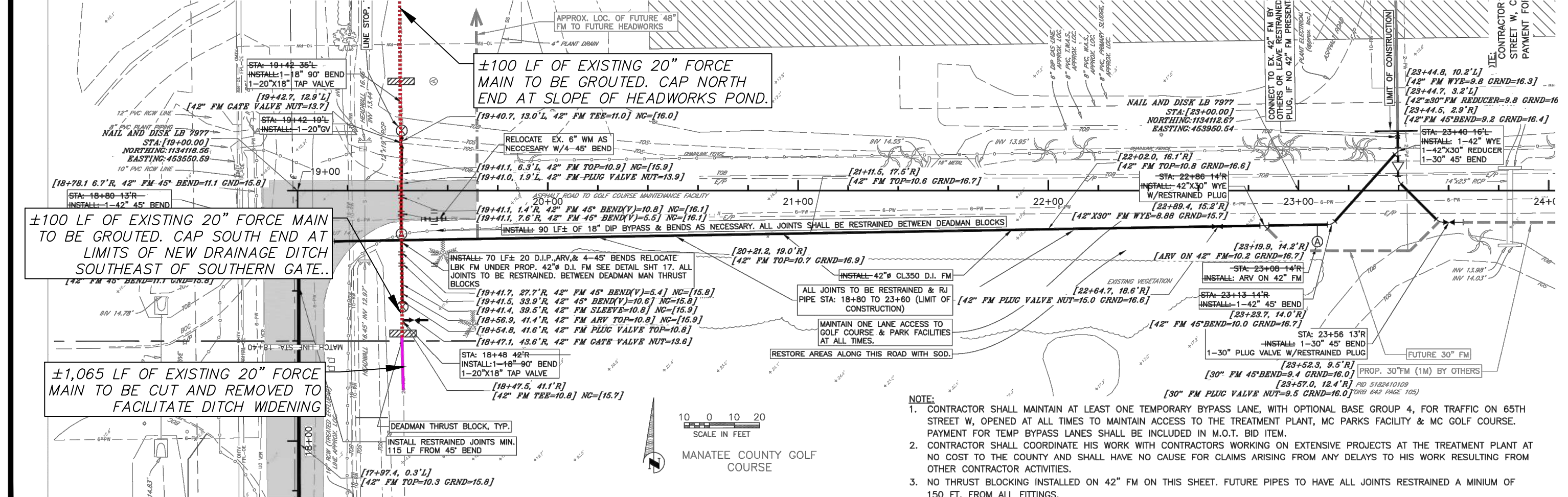
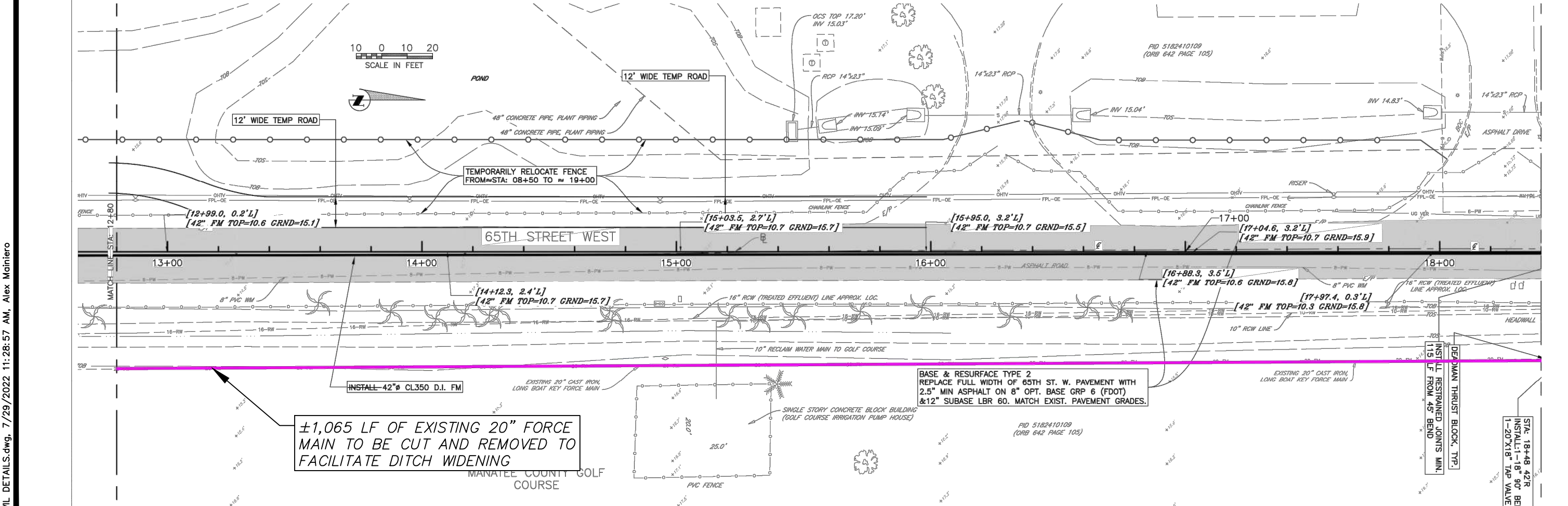
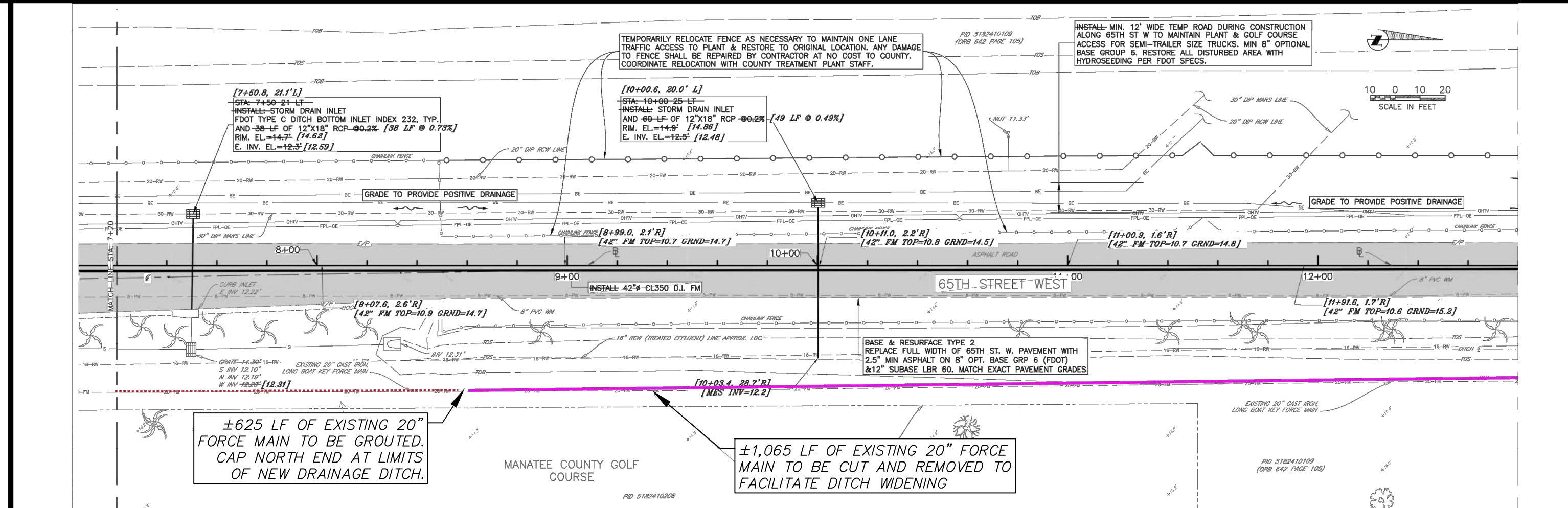
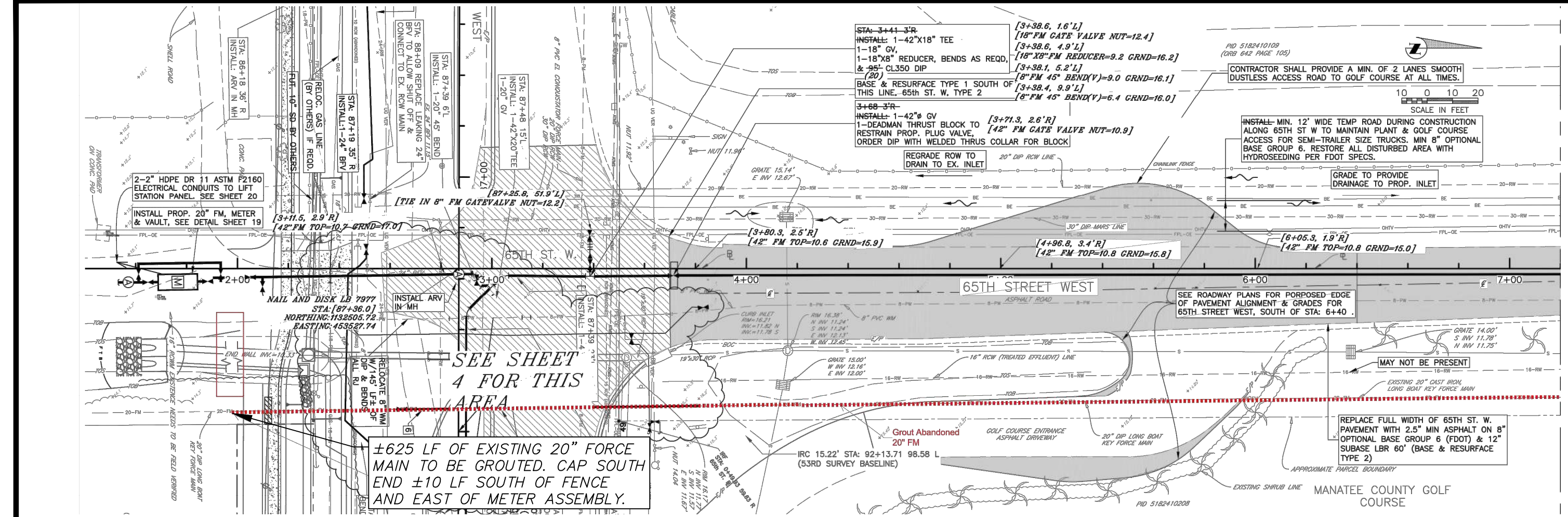
STATUS: ISSUED FOR CONSTRUCTION



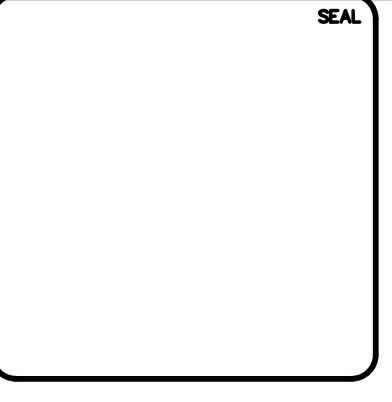
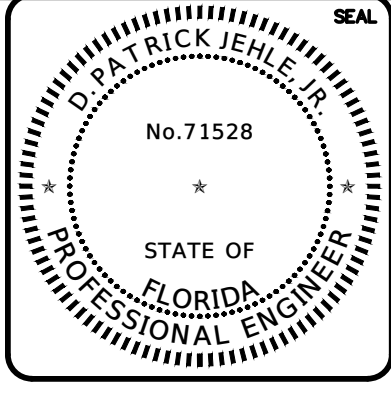
±625 LF OF EXISTING 20" FORCE MAIN TO BE GROUT FILLED, CAPPED, AND ABANDONED IN PLACE

±1,065 LF OF EXISTING 20" FORCE MAIN TO BE CUT AND REMOVED TO FACILITATE DITCH WIDENING

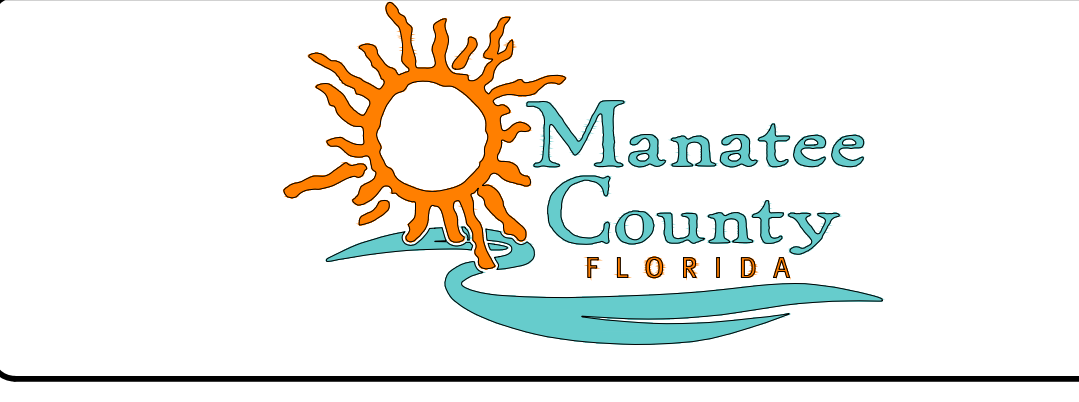
±100 LF OF EXISTING 20" FORCE MAIN TO BE GROUT FILLED, CAPPED, AND ABANDONED IN PLACE



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SWRF STORMWATER SYSTEM REHABILITATION
 CIVIL
GROUTING DETAILS

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| DATE: JULY 2022 | SCALE: HORIZONTAL: C23 |
| MCE PROJ. # 1024-0192 | VERTICAL: A |
| DRAWN: ALM | REVISION: ISSUED FOR CONSTRUCTION |
| DESIGNED: ALM | |
| CHECKED: DPJ | |
| PROJ. MGR. TLW | |
| STATUS: FOR CONSTRUCTION | |