

The Enclosed Document Is Provided For Your Convenience.

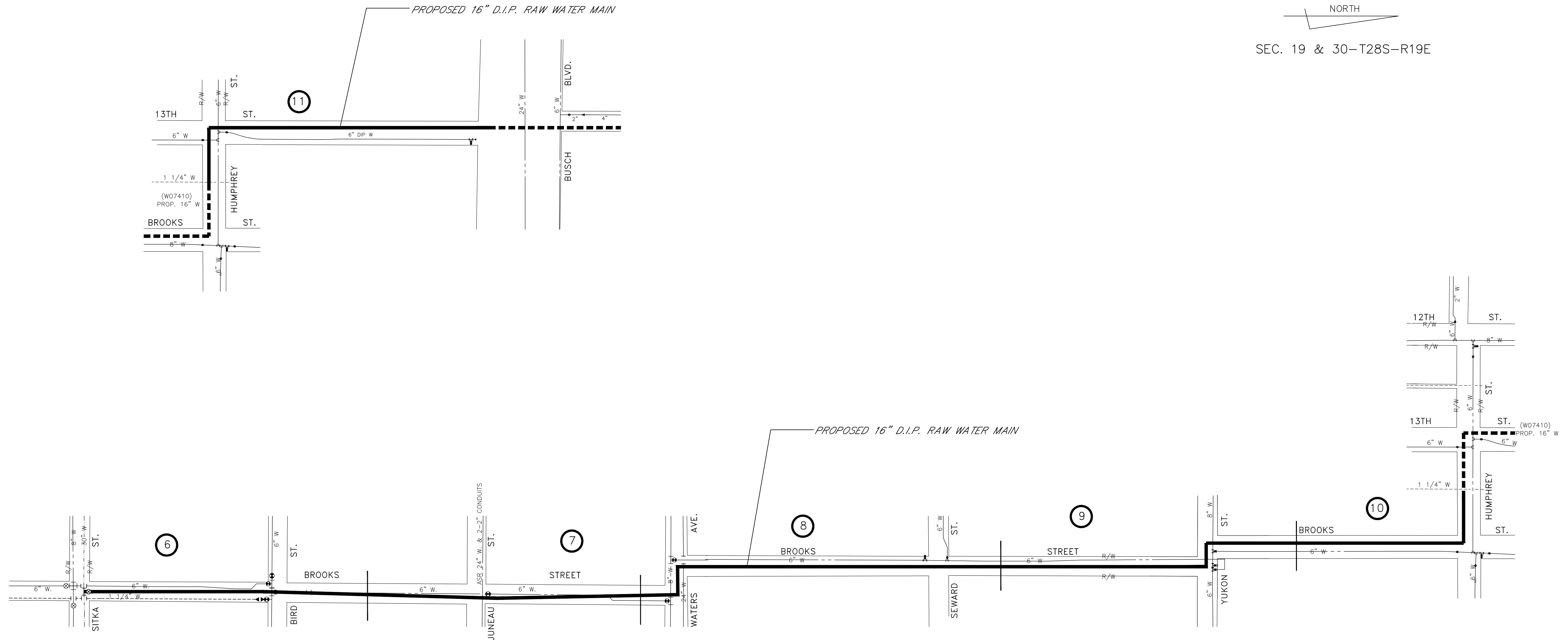
Please Email ALL Questions:

[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

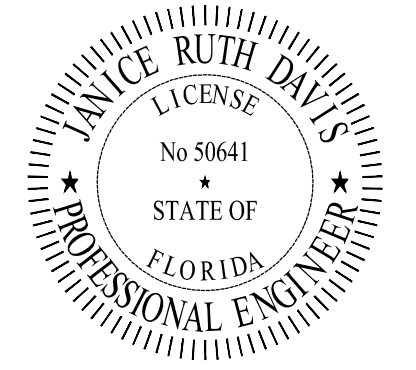
Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

NORTH
 SEC. 19 & 30-T28S-R19E



JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPARTMENT
 306 E. JACKSON ST., 5N
 TAMPA, FLA. 33602
 P.E. #50641



Water Department

16" RAW WATER MAIN

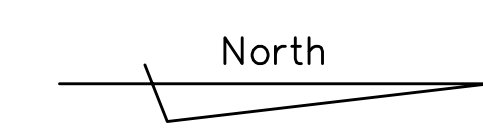
KEY SHEET

NOT TO SCALE

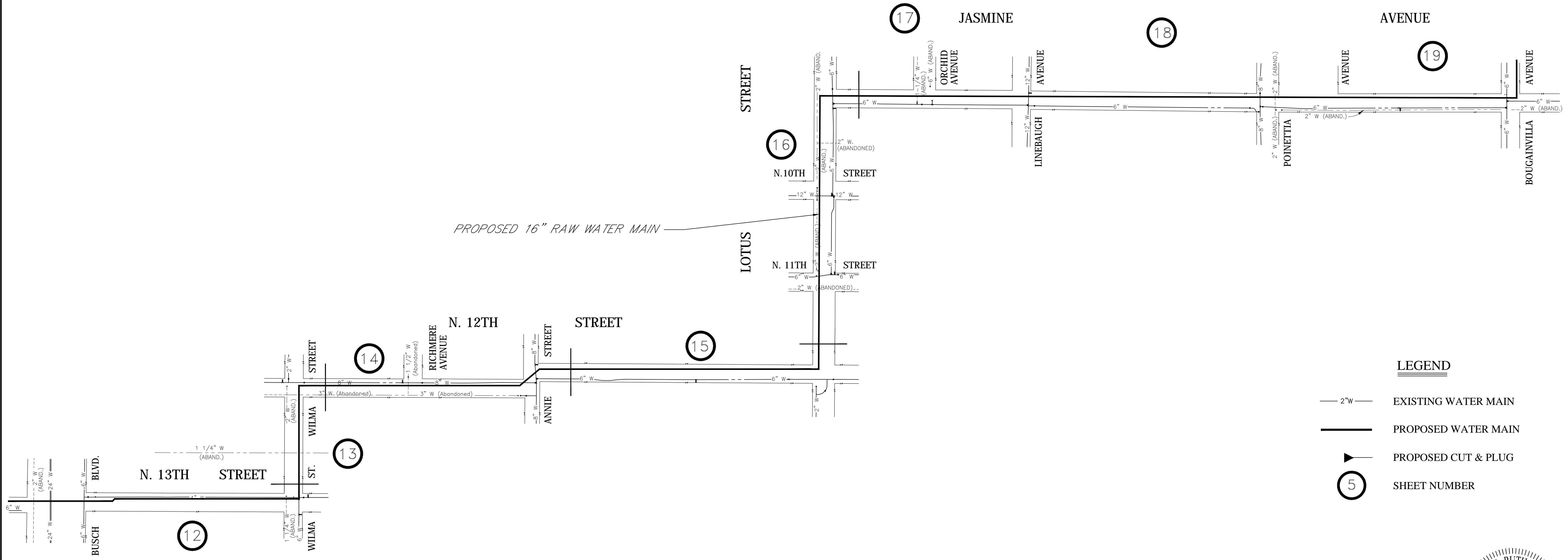
Atlas Page
 C13-3
 D13-4

| No. | Date | REVISION | By |
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| Des: | JRD | W.O. 7410 | FILE: BLUE SINK |
| Dwn: | PF | FILE NUMBER | |
| Ckd: | JRD | SHEET 2 | OF 31 |



SEC. 18-T28S-R19E
SEC. 19-T28S-R19E

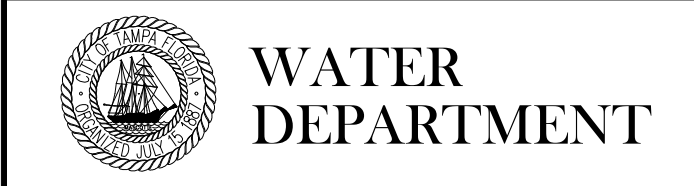
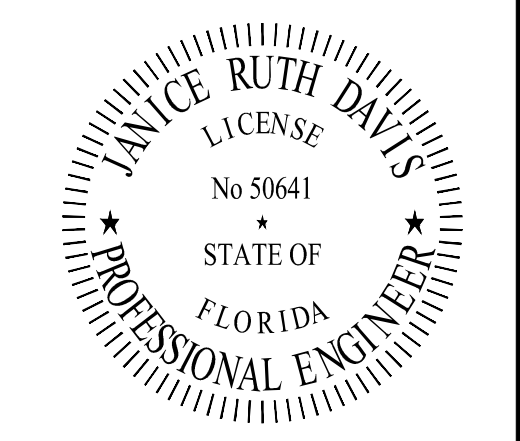


PROPOSED 16" RAW WATER MAIN

LEGEND

- 2" W — EXISTING WATER MAIN
- PROPOSED WATER MAIN
- ▲ PROPOSED CUT & PLUG
- ⑤ SHEET NUMBER

JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

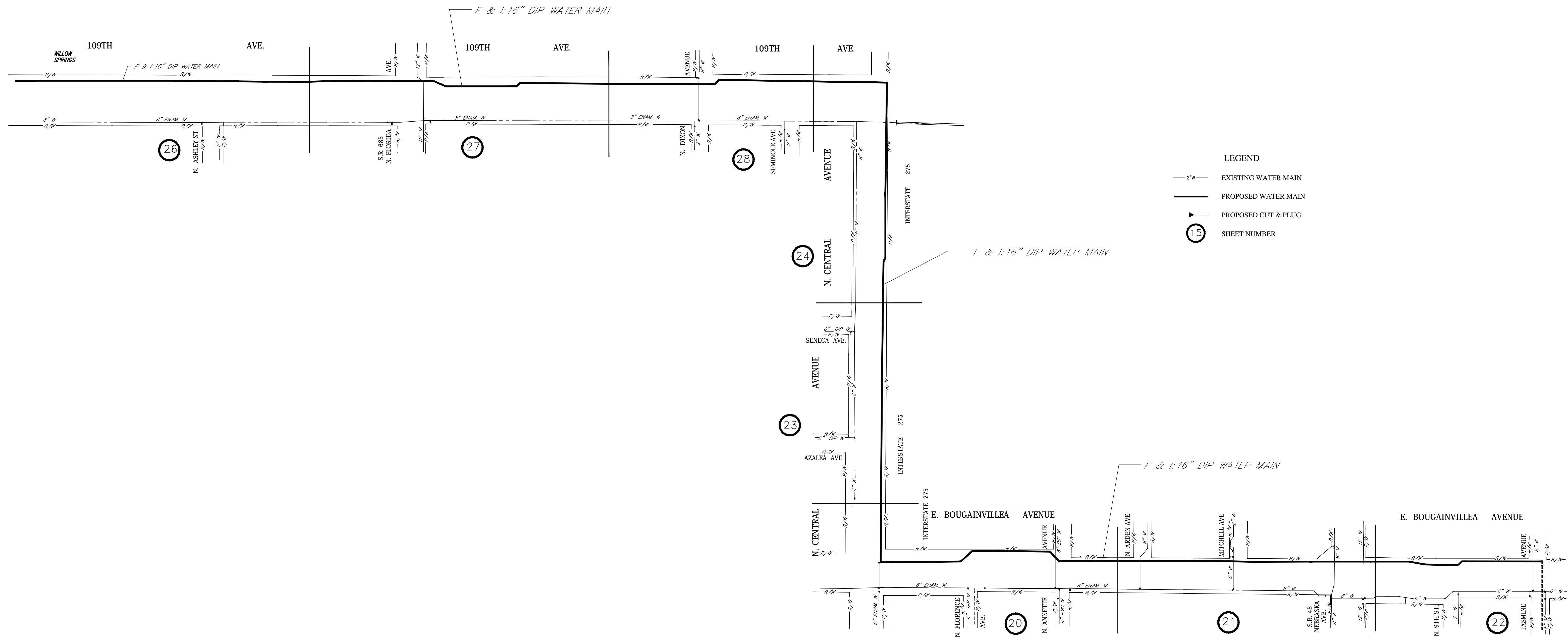
KEY SHEET

NOT TO SCALE

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| Atlas Pages | | Des: JRD | W.O. 7410 | File: BLUE SINK |
| B13-3 | | Dwn: BFJ/JDM | | FILE NUMBER |
| C13-4 | | Ckd: JRD | | |
| No. Date | REVISION | By | | |
| Approved | Date | | | |
| | | | SHEET 3 | OF 31 |

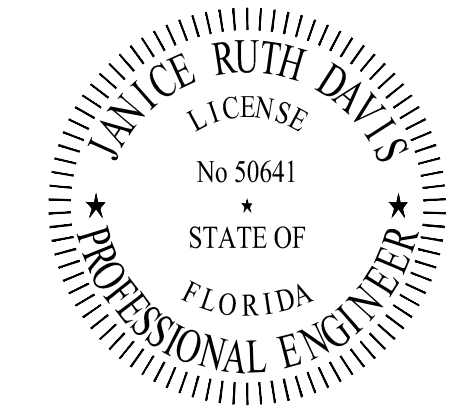


Sec. 13-T28S-R18E
Sec. 18-T28S-R19E



LEGEND

- 2" W — EXISTING WATER MAIN
- PROPOSED WATER MAIN
- ▶ PROPOSED CUT & PLUG
- ⑮ SHEET NUMBER



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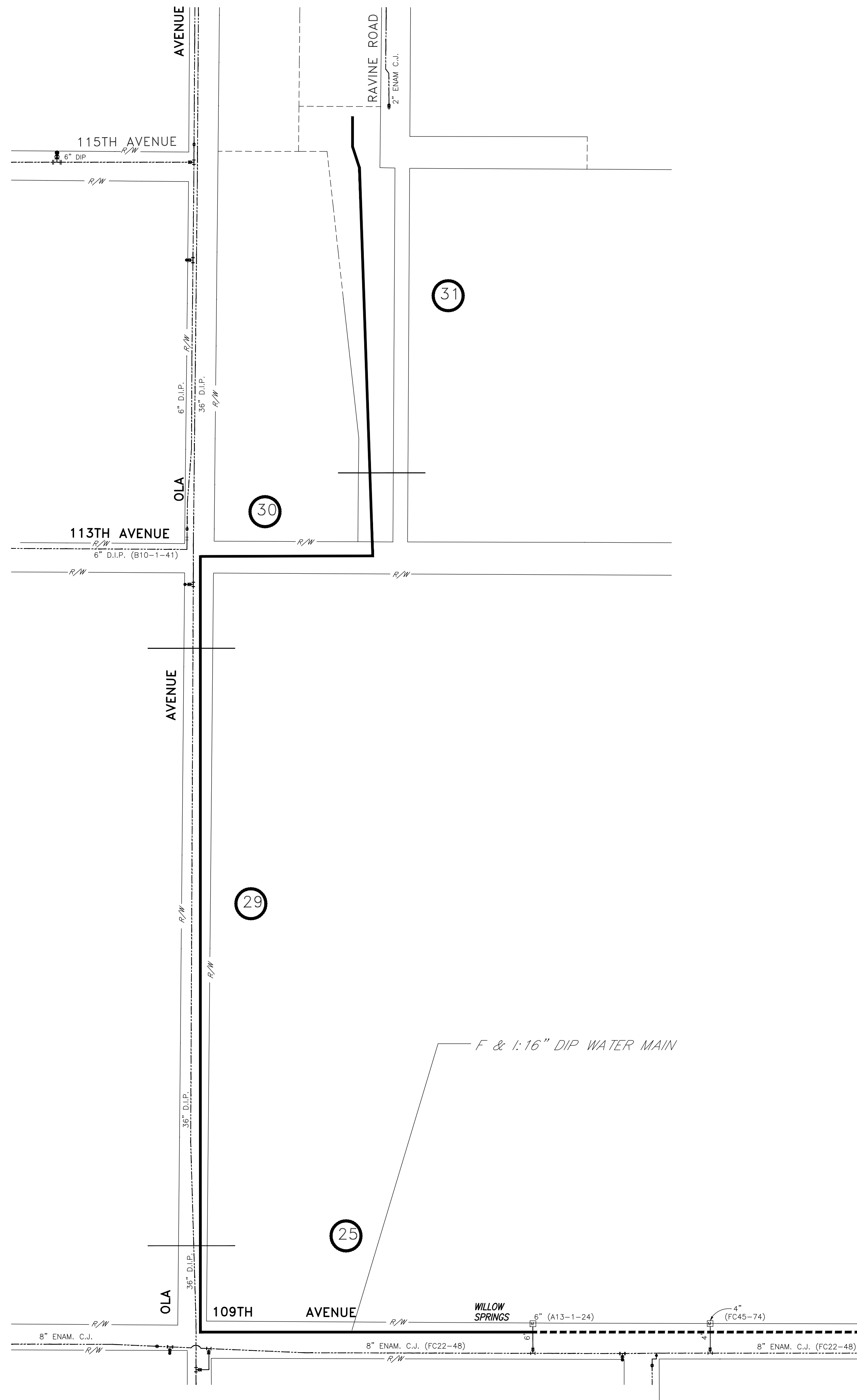


16" RAW WATER MAIN

KEY SHEET

NOT TO SCALE

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| Atlas Page | | Des: | JH | W.O. | 7410 | FILE: | BLUE SINK |
| No. Date | | Dwn: | JDM | | | FILE NUMBER | |
| Approved Date | | Ckd: | JRD | | | SHEET | 4 OF 31 |
| B12,B13 | | | | | | | |

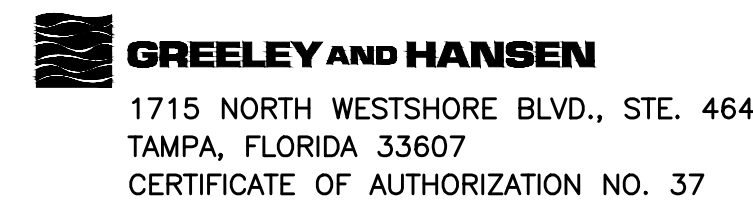


GENERAL SURVEY NOTES

1. THE HORIZONTAL DATUM UTILIZED FOR THIS PROJECT IS NAD 1983 (2007) FLORIDA WEST ZONE, U.S. SURVEY FEET.
2. THE VERTICAL DATUM UTILIZED FOR THIS PROJECT IS NGVD 1988, U.S. SURVEY FEET. THE BENCHMARK UTILIZED WAS CITY OF TAMPA BENCHMARK "HV-02 0199" WITH AN ELEVATION OF 30.06 FEET. DATUM CONVERSION: NAVD 1988 = NGVD 1929 - 0.84'

SURVEY CONTROL

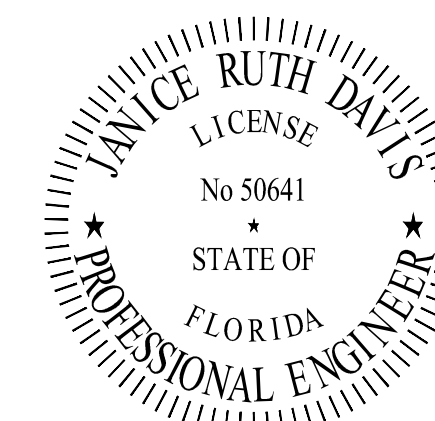
TEMPORARY BENCHMARK LIST APPLICABLE TO SHEETS 27, 28, 29 AND 30



- LEGEND**
- 2" — EXISTING WATER MAIN
 - — PROPOSED WATER MAIN
 - ⊥ PROPOSED CUT & PLUG
 - ⊙ 15 SHEET NUMBER

- NOTES:**
1. VERIFY LOCATION OF BURIED ELECTRIC CABLE, 6" SANITARY LATERAL, AND 1" WATER MAIN PRIOR TO CONSTRUCTION OF NEW 16" WATER MAIN.
 2. INSTALL 2" COMBINATION AIR RELEASE VALVE PER CITY OF TAMPA STANDARD DETAIL 2.14.
 3. INSTALL SILT FENCE ALONG THE TOP OF BANK FROM STA. 2+00 TO STA. 3+00.
 4. PROVIDE AIR RELEASE VALVE TAP AT HIGH POINT (STA 104+40) AND ABOVE GROUND AIR VALVE AT (STA 104+60).

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Des: JH
Dwn: JDM
Ckd: JRD

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| W.O. | 7410 | FILE: | BLUE SINK |
| | | | FILE NUMBER |
| SHEET | 5 | OF | 31 |

BROOKS STREET

MSS-1:
Rim = 26.00
N. Invert = 19.64 (10" VCP)
S. Invert = 18.30 (8" VCP)
W. & E. Invert = 15.65 (24")

MSS-2:
Rim = 27.00
N. & S. Invert = 20.37 (10" VCP)

MSS-3:
Rim = 28.50
N. & S. Invert = 21.19 (10" VCP)

SG-1:
Grate = 25.50
E. Invert = 19.30 (15" RCP)

SG-2:
Grate = 25.50
W. Invert = 19.15 (15" RCP)
E. Invert = 19.15 (18" RCP)

SG-3:
Grate = 27.63
NE. Invert = 24.00 (12"x18" RCP)

SG-4:
Grate = 27.35
E. Invert = 24.00 (15" RCP)

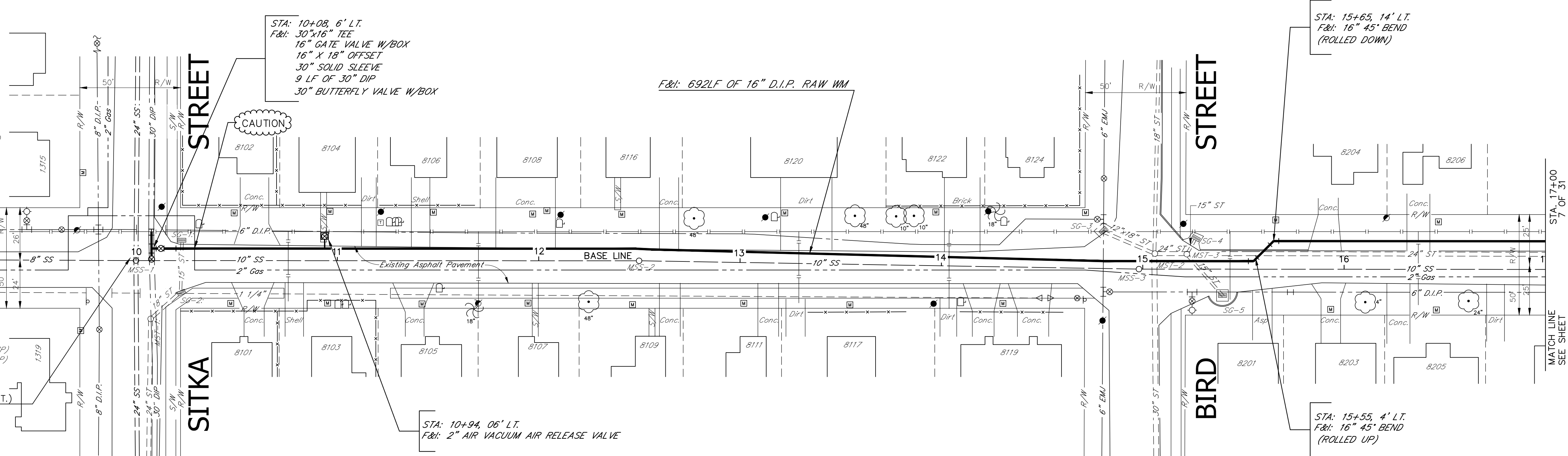
SG-5:
Grate = 27.75
SW. Invert = 24.00 (15" RCP)

MST-1:
Rim = 25.70
E. Invert = 22.05 (24" RCP)
W. Invert = 22.05 (18" RCP)

MST-2:
Rim = 28.25
E. Invert = 22.64 (30" RCP)
W. Invert = 23.95 (18" RCP)
N. Invert = 23.16 (24" RCP)

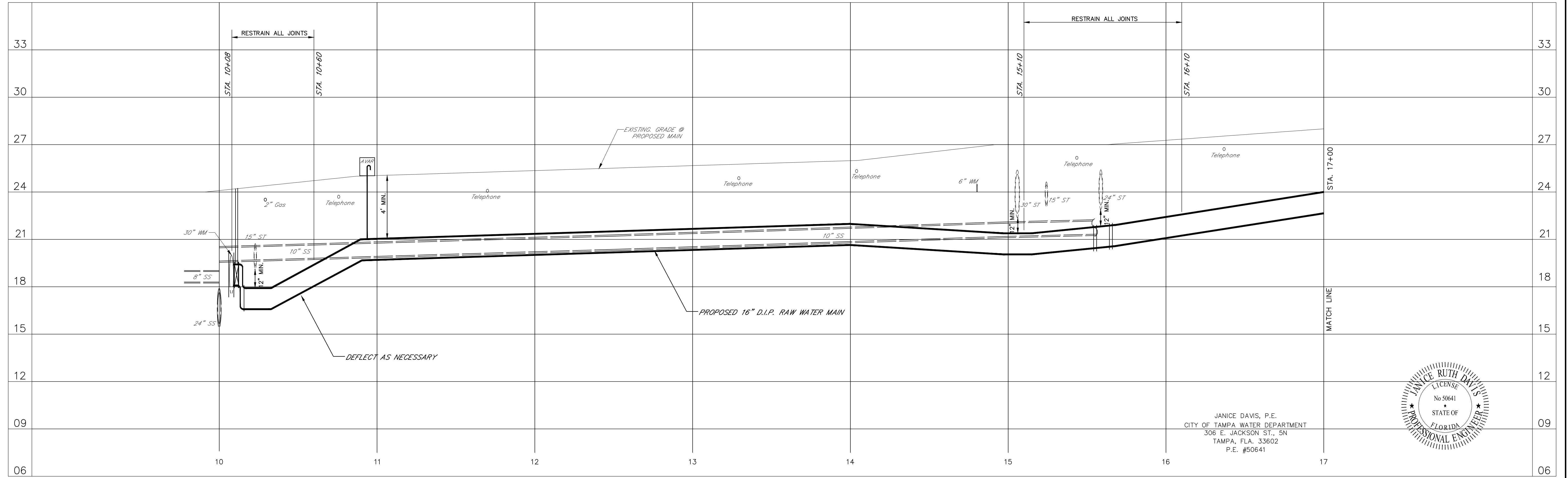
MST-3:
Rim = 25.70
E. & W. Invert = 23.21 (15" RCP)
N. & S. Invert = 23.16 (24" RCP)

STA. 10+00 (BROOKS ST.)

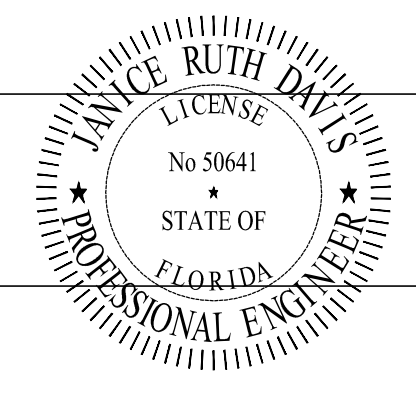


HV-02 0203
Description: C.O.T.S. Alum. Disk
Elevation: 19.608
Location: Mark is located at the southeast corner of Waters Ave. and Nebraska Ave. it is 52' east of the centerline of Nebraska Ave. and 35' south of the centerline of Waters Ave.

- NOTES:
1. POLYWRAP ALL D.I.P. WATER MAIN & APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.

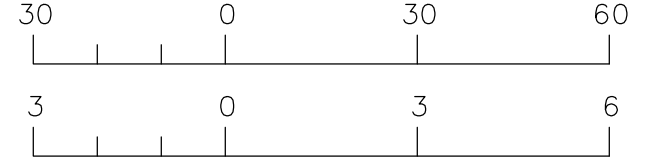


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306 E. JACKSON ST., 5N
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

BROOKS STREET: - from Sitka St. to Busch Blvd.



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| Des: | JRD | W.O. | 7410 | File: | BLUESINK |
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MSS-4:
Rim = 30.00
N. & S. Invert = 21.81 (10" VCP)

MSS-5:
Rim = 30.00
N. & S. Invert = 22.54 (10" VCP)

MSS-6:
Rim = 31.50
N. & S. Invert = 23.23 (10" VCP)

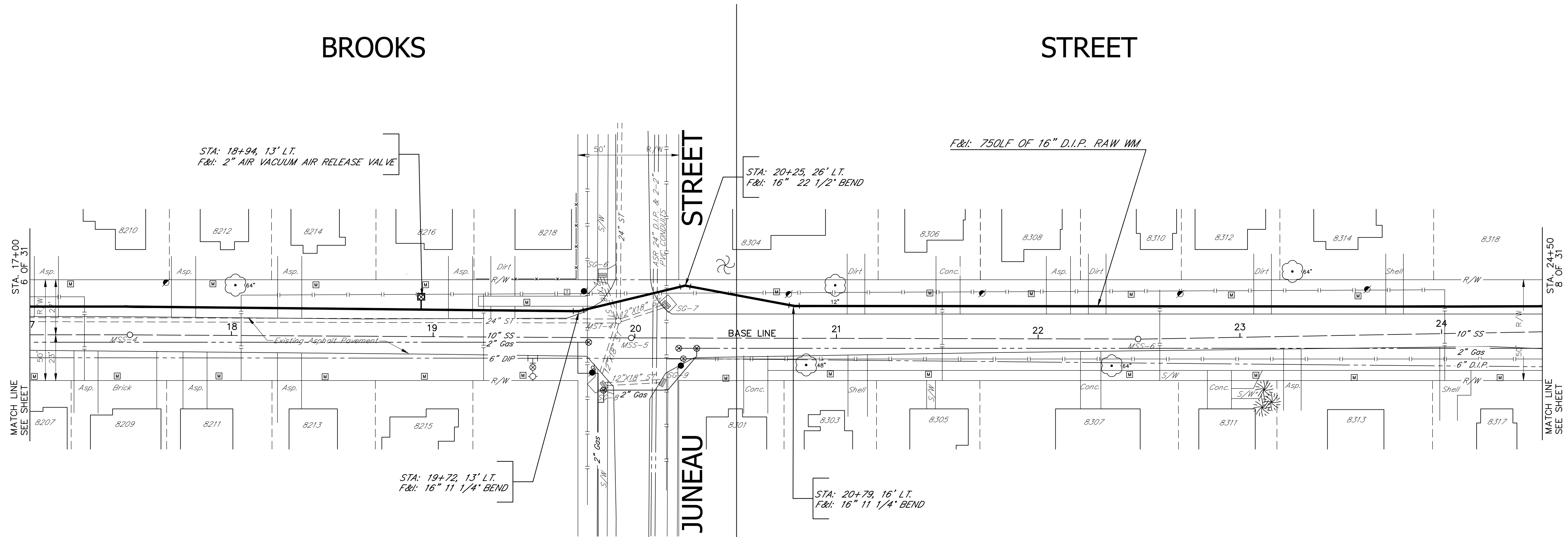
SG-6:
Grate = 28.18
E. Invert = 25.50 (12"x18" RCP)

SG-2:
Grate = 28.18
W. Invert = 25.50 (12"x18" RCP)

SG-8:
Grate = 28.18
NE. & E. Invert = 25.50 (12"x18" RCP)

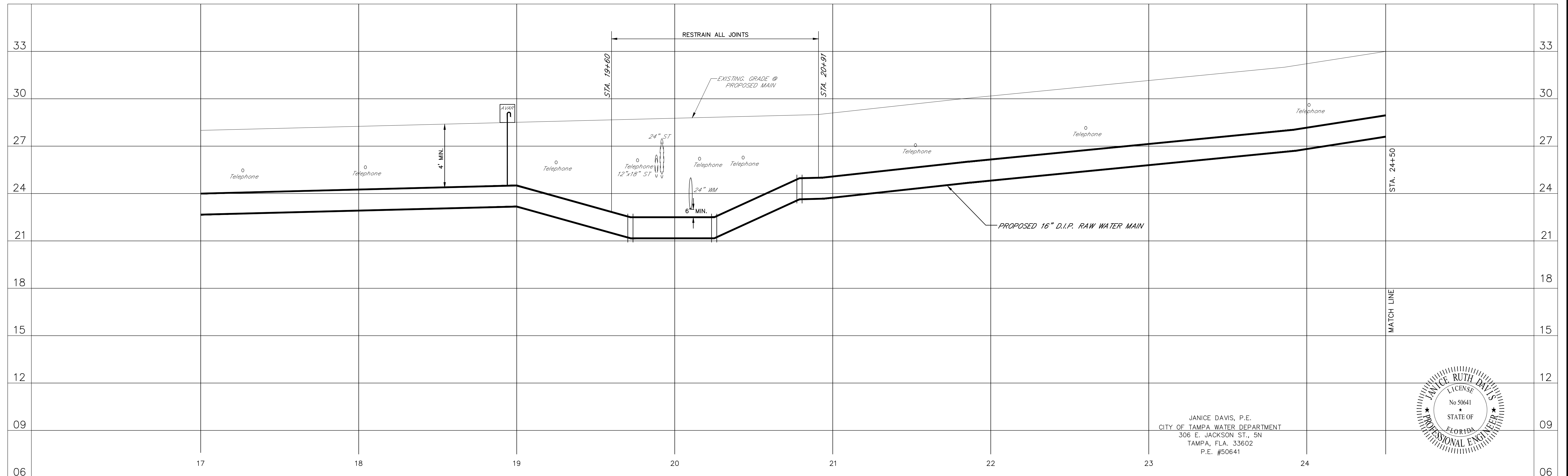
SG-9:
Grate = 28.40
W. Invert = 25.75 (12"x18" RCP)

MST-4:
Rim = 29.05
SE, SW, & NW Invert = 25.25 (24" RCP)
W. Invert = 25.25 (24" RCP)
S. Invert = 25.25 (24" RCP)

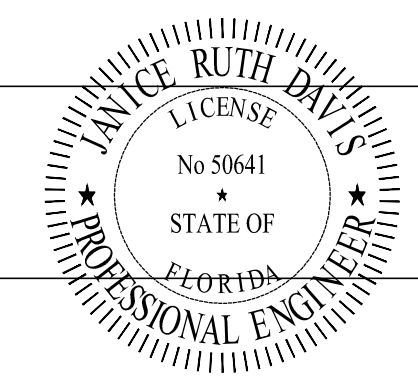


HV-02 0203
Description: C.O.T.S. Alum. Disk
Elevation: 19.608
Location: Mark is located at the southeast corner of Waters Ave. and Nebraska Ave. it is 52' east of the centerline of Nebraska Ave. and 35' south of the centerline of Waters Ave.

NOTES:
1. POLYWRAP ALL D.I.P. WATER MAIN & APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.



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TAMPA, FLA. 33602
P.E. #50641



Water Department
16" RAW WATER MAIN

BROOKS STREET: - from Sitka St. to Busch Blvd.



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MSS-7:
Rim = 35.00
W. & S. Invert = 23.99 (10" VCP)

MSS-8:
Rim = 35.00
N. & E. Invert = 24.16 (10" VCP)

MSS-9:
Rim = 32.00
N. & S. Invert = 25.02 (10" VCP)

MSS-10:
Rim = 40.20
N. & S. Invert = 25.86 (10" VCP)

SG-10:
Grate = 34.53
N. Invert = 26.00 (18" RCP)
E. Invert = 26.00 (24" RCP)

SG-11:
Grate = 33.50
SW Invert = 30.00 (15" RCP) P.I. STA. 25+59.20

SG-12:
Grate = 33.50
SE Invert = 30.00 (15" RCP)

SG-13:
Grate = 30.80
E. Invert = 28.14 (15" RCP)

SG-14:
Grate = 30.80
W. Invert = 28.14 (15" RCP)

MST-5:
Rim = 33.95
E. Invert = 29.50 (15" RCP)
W. Invert = 29.50 (15" RCP)
N. Invert = 29.50 (18" RCP)
S. Invert = 29.50 (18" RCP)

STA: 24+89, 75' L.T.
F&I: 16" 90° BEND

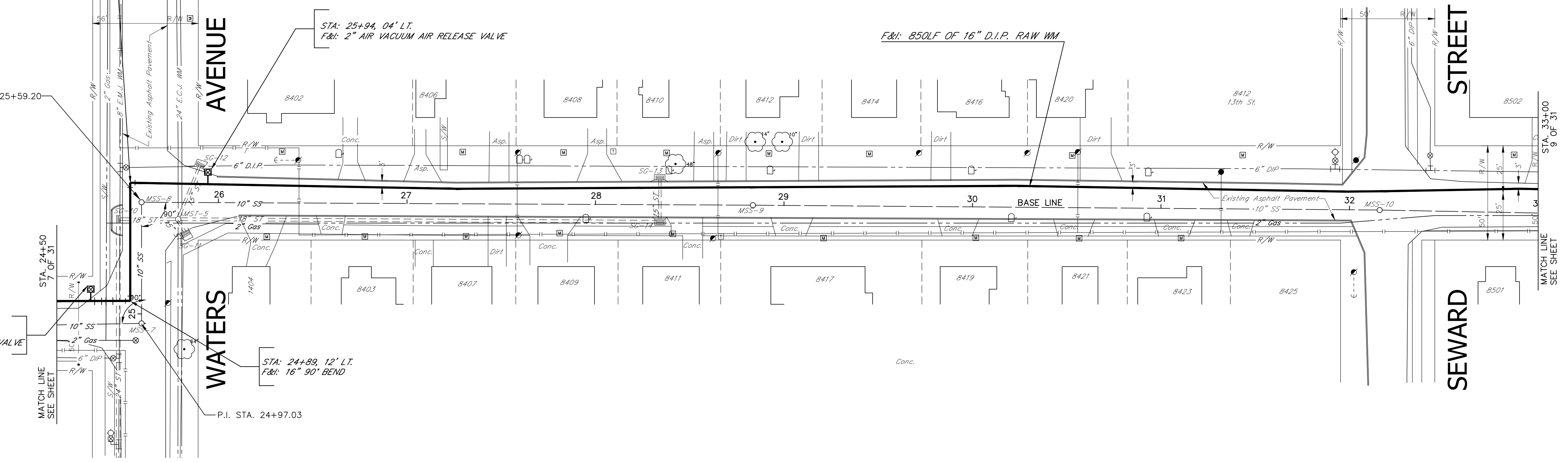
STA: 25+94, 04' L.T.
F&I: 2" AIR VACUUM AIR RELEASE VALVE

STA: 24+89, 12' L.T.
F&I: 16" 90° BEND

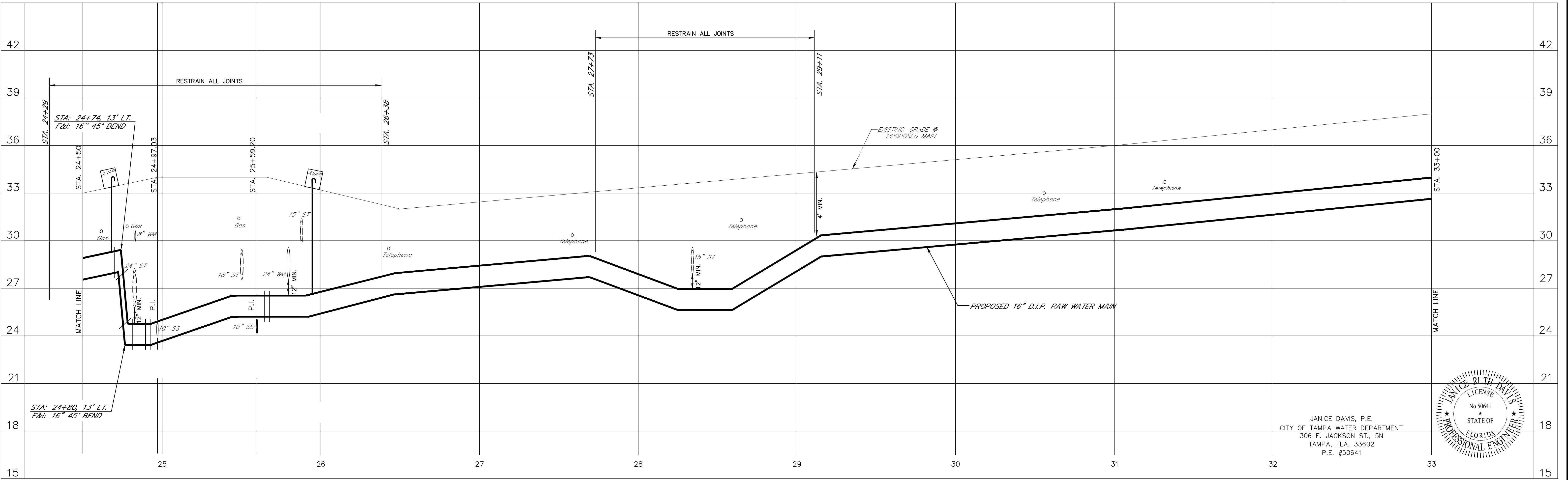
STA: 24+68, 13' L.T.
F&I: 2" AIR VACUUM AIR RELEASE VALVE

HV-02 0203
Description: C.O.T.S. Alum. Disk
Elevation: 19.608
Location: Mark is located at the southeast corner of Waters Ave. and Nebraska Ave. it is 52' east of the centerline of Nebraska Ave. and 35' south of the centerline of Waters Ave.

North
SEC. 19 & 30-T28S-R19E

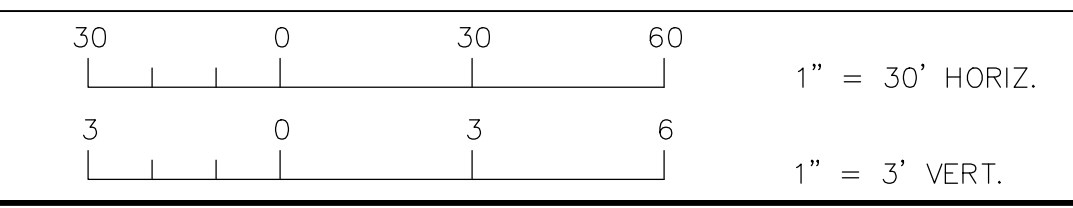


NOTES:
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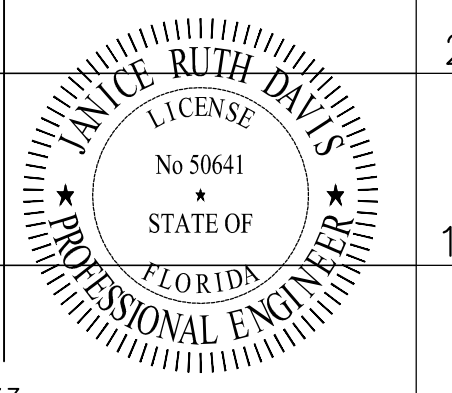
Water Department
16" RAW WATER MAIN

BROOKS STREET: - from Sitka St. to Busch Blvd.



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| Atlas Page | C13-3 | D13-4 |
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| | Date | |

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| Des: | JRD | W.O. | 7410 | File: | BLUESINK |
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JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPARTMENT
306 E. JACKSON ST., 5N
TAMPA, FL. 33602
P.E. #50641

MSS-11:
Rim = 37.00
N. & S. Invert = 27.10 (10" VCP)

MSS-12:
Rim = 36.00
S. Invert = 27.89 (10" VCP)
E. & W. Invert = 27.89 (8" VCP)

MSS-13:
Rim = 35.00
N. Invert = 28.41 (8" VCP)
E. & W. Invert = 28.41 (8" VCP)

SG-15:
Grate = 34.44
E. Invert = 31.05 (14" X 23" RCP)
N. Invert = 30.75 (24" RCP)

SG-16:
Grate = 34.44
W. Invert = 31.05 (14" X 23" RCP)

SG-17:
Grate = 34.29
E. Invert = 30.26 (15" RCP)

SG-18:
Grate = 34.95
W. Invert = 29.10 (24" RCP)

SG-19:
Grate = 34.61
S. Invert = 29.94 (15" RCP)

SG-20:
Grate = 33.92
E. Invert = 31.78 (15" RCP)
S. Invert = 31.71 (18" RCP)

SG-21:
Grate = 33.96
W. Invert = 33.92 (15" RCP)

MST-6:
Rim = 35.07
N. & S. Invert = 30.56 (24" RCP)

MST-7:
Rim = 35.09
W. Invert = 29.14 (30" RCP)
E. Invert = 30.15 (18" RCP)
S. Invert = 30.13 (24" RCP)
N. Invert = 29.80 (15" RCP)
SE. Invert = 30.22 (24" RCP)

MST-8:
Rim = 35.30
NW Invert = 30.58 (24" RCP)
SW Invert = 28.03 (24" RCP)
E. Invert = 28.86 (12" RCP)

HV-02 0203
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Elevation: 19.608
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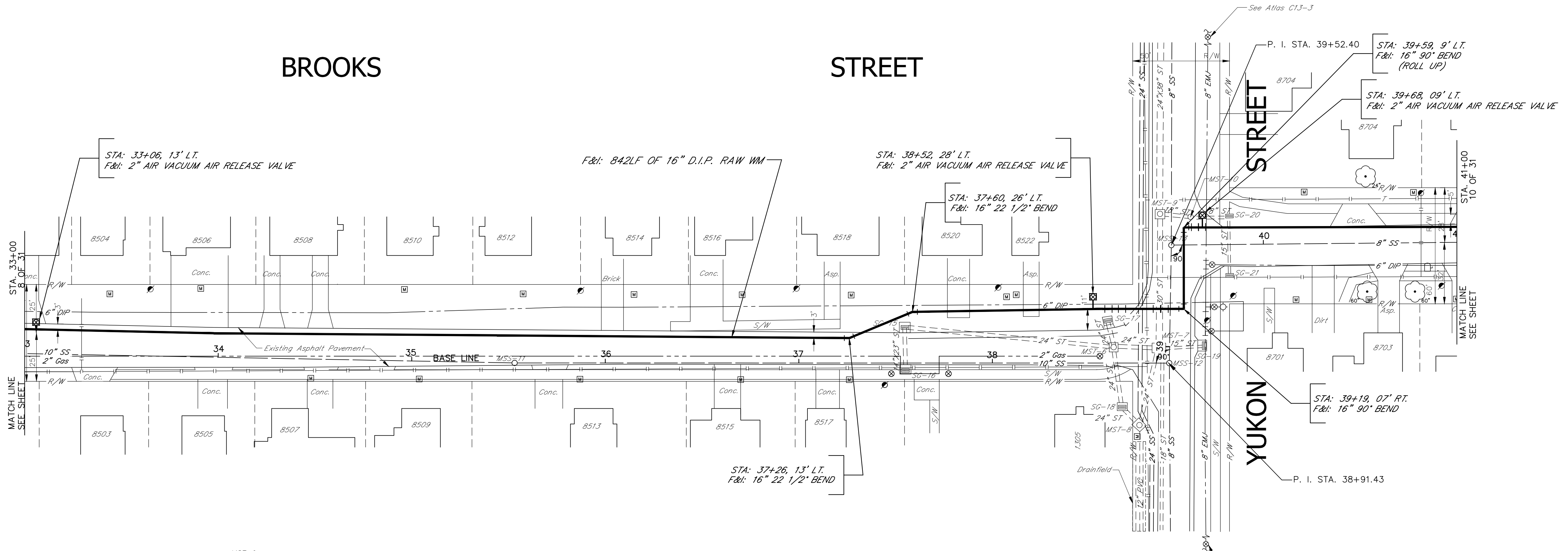
MST-9:
Rim = 34.78
N. Invert = 30.25 (18" RCP)
W. Invert = 29.40 (24" X 38" RCP)
E. Invert = 29.47 (30" RCP)

MST-10:
Rim = 34.58
N. & S. Invert = 30.58 (18" RCP)

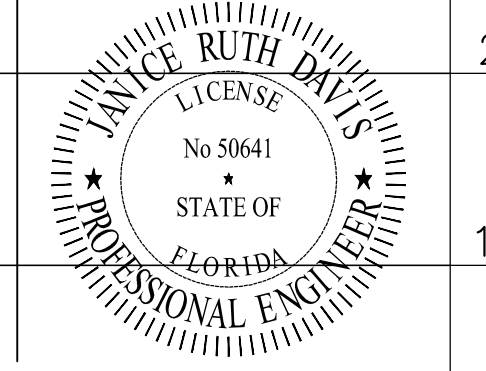
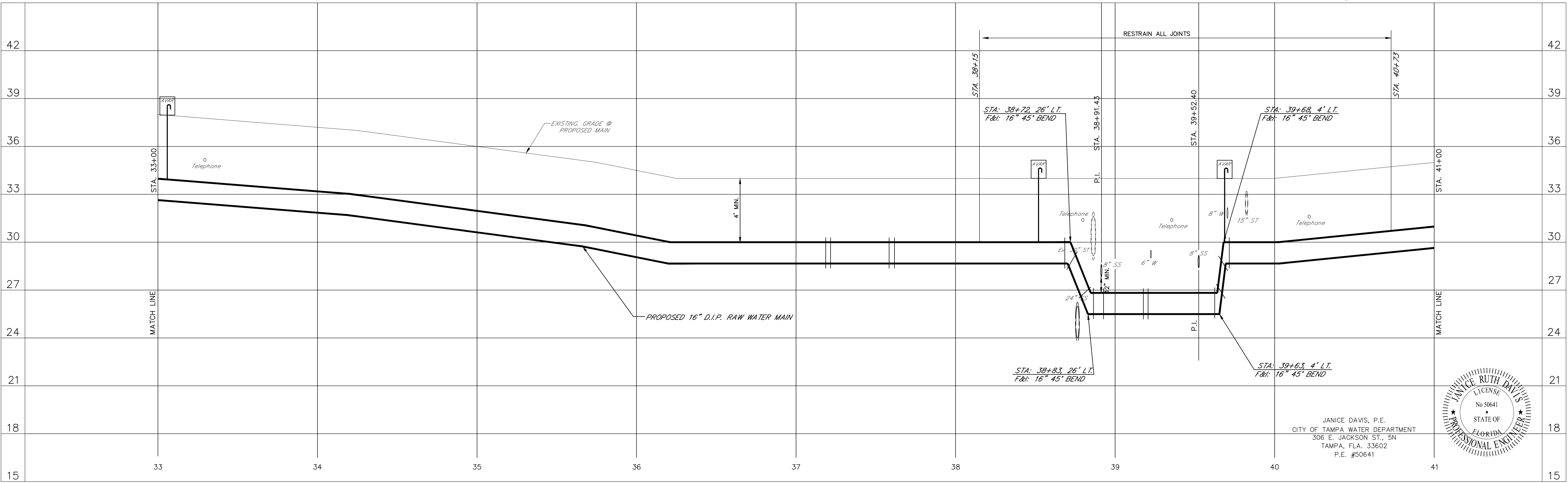
BROOKS STREET

STREET

North
SEC. 19 & 30-T28S-R19E



- NOTES:
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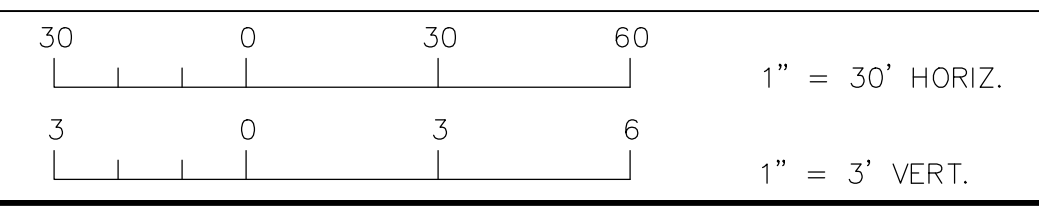


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Water Department
16" RAW WATER MAIN

BROOKS STREET: - from Sitka St. to Busch Blvd.



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| Des: | JRD | W.O. 7410 | File: BLUESINK |
| Dwn: | PF | FILE NUMBER | |
| Ckd: | JRD | SHEET 9 | OF 31 |

MSS-14:
Rim = 37.00
N. & S. Invert = 33.92 (8" VCP)

MSS-15:
Rim = 40.00
S. Invert = 36.69 (8" VCP)

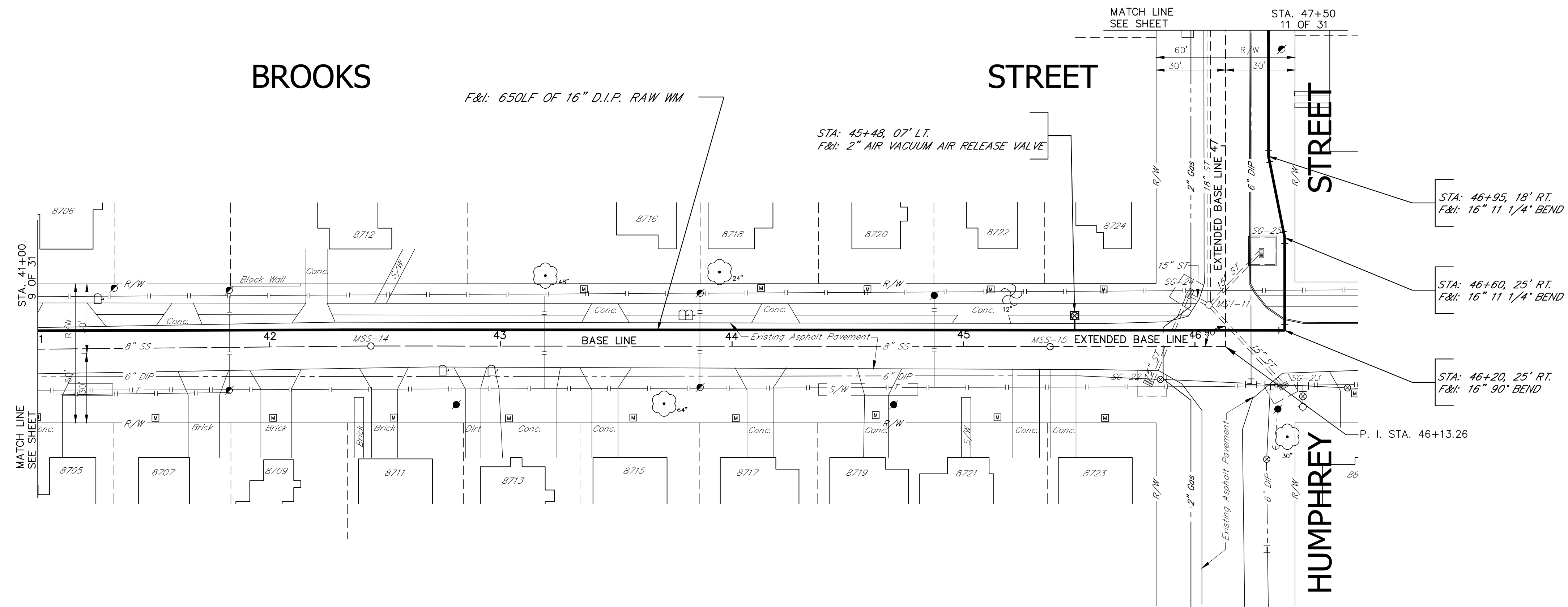
SC-22:
Grate = 39.68
NW. Invert = 36.11 (15" RCP)
N. Invert = 30.75 (24" RCP)

SC-23:
Grate = 40.04
SW. Invert = 36.11 (15" RCP)

SC-24:
Grate = 39.58
NE. Invert = 35.07 (15" RCP)
SE. Invert = 35.93 (15" RCP)

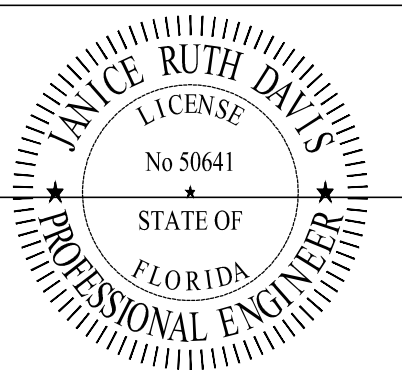
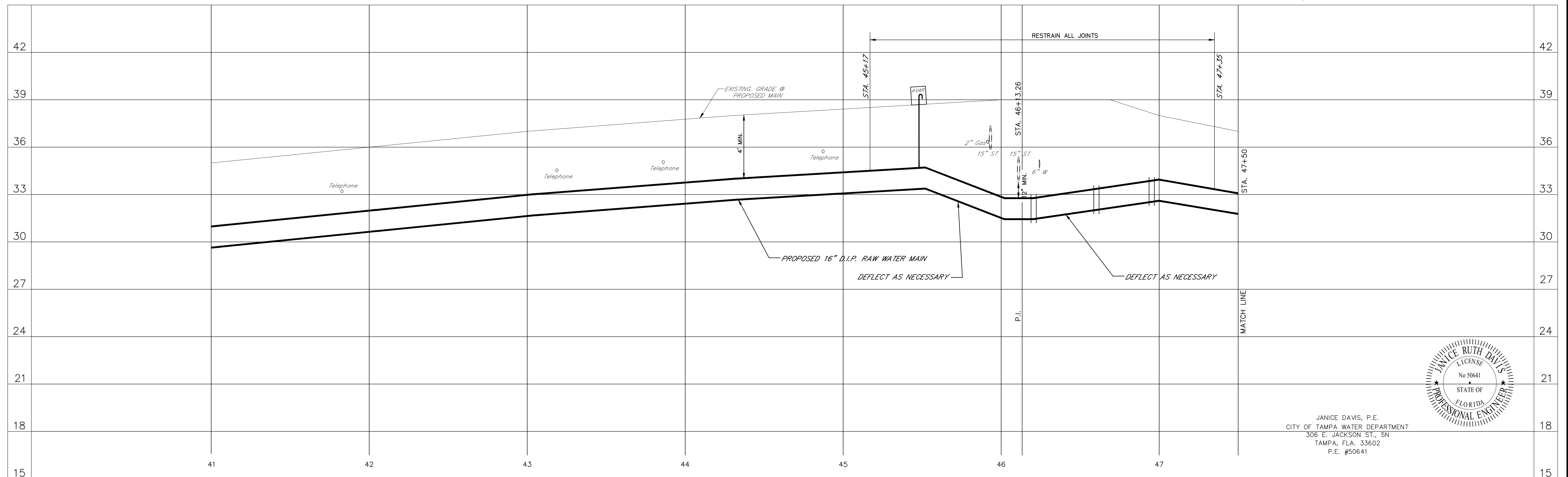
SC-25:
Grate = 39.70
SE. Invert = 35.02 (15" RCP)

MST-11:
Rim = 40.03
NW. Invert = 33.31 (15" RCP)
SW. Invert = 33.51 (15" RCP)
NE. Invert = 33.96 (15" RCP)
W. Invert = 38.35 (18" RCP)



HV-02 0203
Description: C.O.T.S. Alum. Disk
Elevation: 19.608
Location: Mark is located at the southeast corner of Waters Ave. and Nebraska Ave. it is 52' east of the centerline of Nebraska Ave. and 35' south of the centerline of Waters Ave.

- NOTES:
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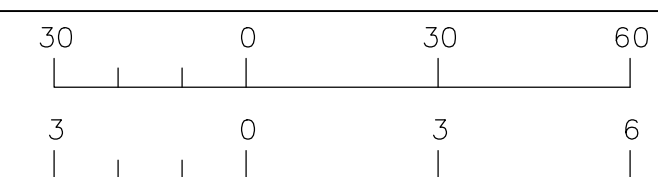


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CITY OF TAMPA WATER DEPARTMENT
506 E. JACKSON ST., 5th
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER

BROOKS STREET: - from Sitka St. to Busch Blvd.

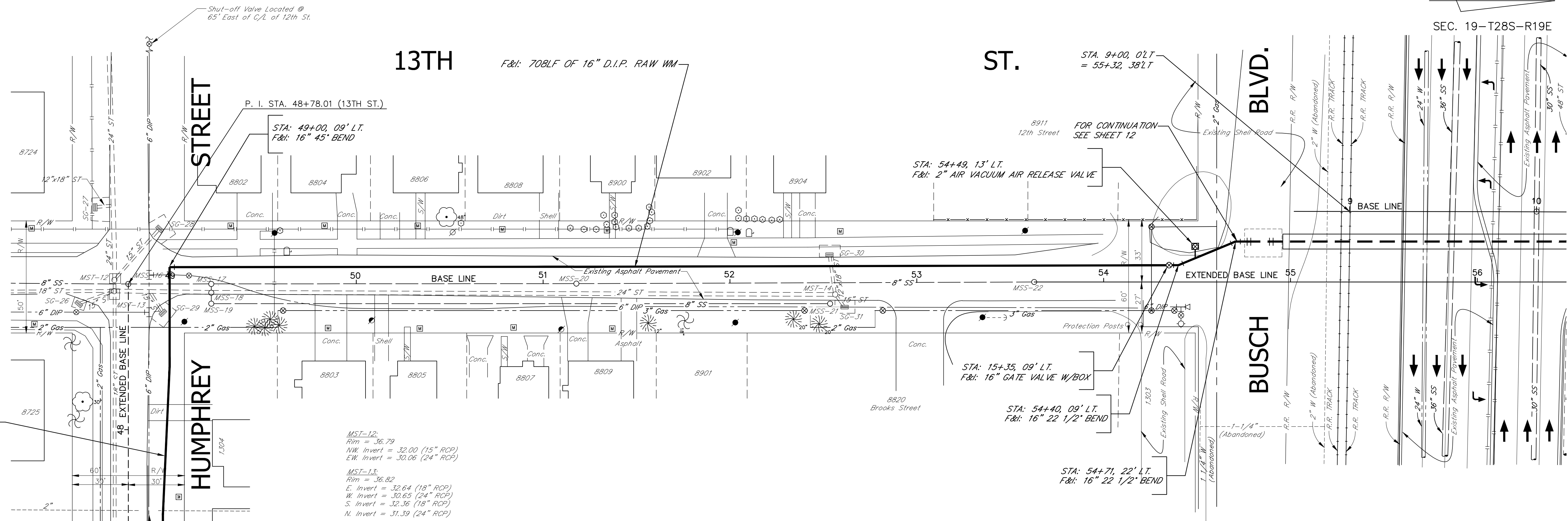


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| Des: | JRD | W.O. | 7410 | File: | BLUESINK MFL |
| Dwn: | PF | FILE NUMBER | | | |
| Ckd: | JRD | SHEET | 10 | OF | 31 |

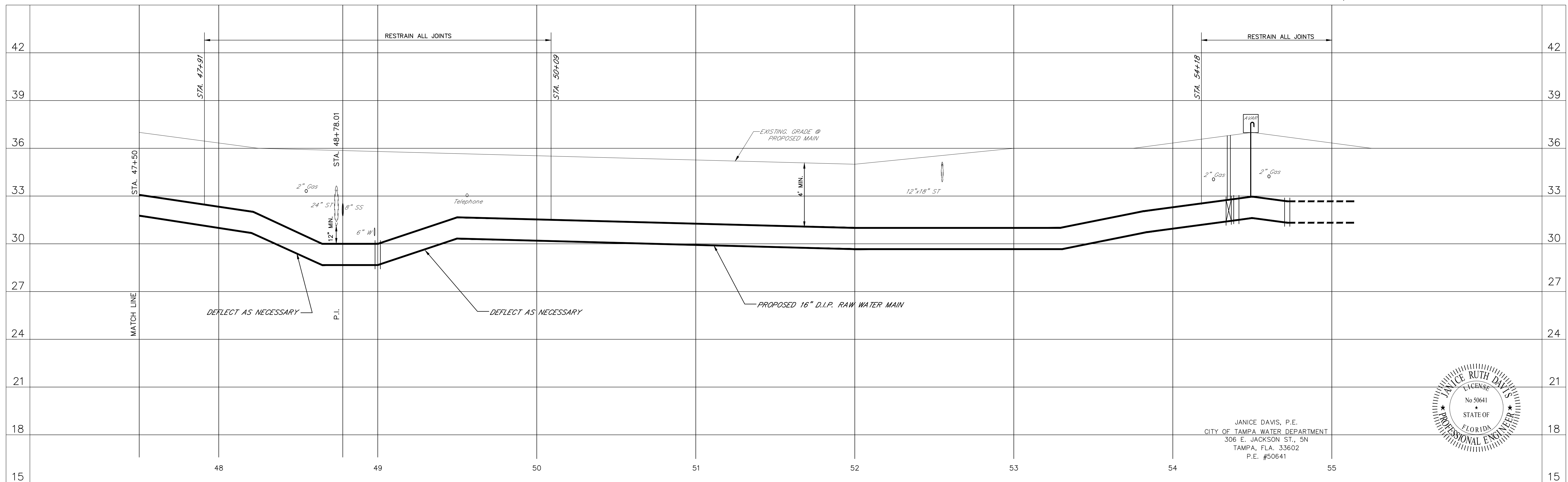
- MSS-16:
Rim = 37.00
N. & S. Invert = 31.72 (8" VCP)
- MSS-17:
Rim = 36.94
N. & S. Invert = 31.90 (8" VCP)
E. Invert = 32.05 (8" DIP)
- MSS-18:
Rim = 36.00
N. & S. Invert = 31.24 (24" RCP)
E. & W. Invert = 32.05 (8" DIP)
- MSS-19:
Rim = 37.20
N. Invert = 32.08 (8" VCP)
W. Invert = 32.05 (8" DIP)
- MSS-20:
Rim = 37.00
N. & S. Invert = 32.45 (8" VCP)
- MSS-21:
Rim = 36.50
S. Invert = 33.40 (8" DIP)
- MSS-22:
Rim = 37.00
S. Invert = 33.24 (8" VCP)
- SG-26:
Grate = 36.40
NE. Invert = 32.98 (15" RCP)
- SG-27:
Grate = 35.79
N. Invert = 31.00 (12" X 18" RCP)
- SG-28:
Grate = 35.85
SE. Invert = 33.10 (15" RCP)
- SG-29:
Grate = 36.40
SW. Invert = 32.40 (15" RCP)
- SG-30:
Grate = 36.07
E. Invert = 33.89 (12" X 18" RCP)
- SG-31:
Grate = 36.26
W. Invert = 33.04 (15" RCP)



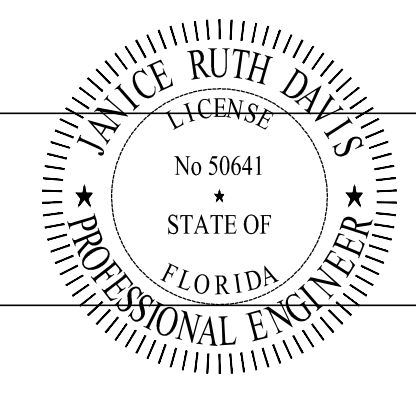
- MST-12:
Rim = 36.79
NW. Invert = 32.00 (15" RCP)
EW. Invert = 30.06 (24" RCP)
- MST-13:
Rim = 36.82
E. Invert = 32.64 (18" RCP)
W. Invert = 30.65 (24" RCP)
S. Invert = 32.36 (18" RCP)
N. Invert = 31.39 (24" RCP)
- MST-14:
Rim = 36.48
W. Invert = 33.24 (12" X 18" RCP)
S. Invert = 31.94 (24" RCP)
E. Invert = 32.81 (15" RCP)

HV-02 0203
Description: C.O.T.S. Alum. Disk
Elevation: 19.608
Location: Mark is located at the southeast corner of Waters Ave. and Nebraska Ave. it is 52' east of the centerline of Nebraska Ave. and 35' south of the centerline of Waters Ave.

- NOTES:
1. POLYWRAP ALL D.I.P. WATER MAIN & APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.

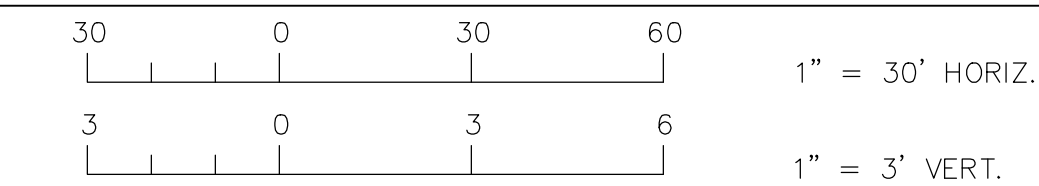


JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPARTMENT
306 E. JACKSON ST., 5N
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

BROOKS STREET: - from Sitka St. to Busch Blvd.



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| Atlas Page | C13-3 | D13-4 |
| No. | Date | REVISION |
| Approved | Date | By |

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|------|-----|-------------|----------------|
| Des: | JRD | W.O. 7410 | File: BLUESINK |
| Dwn: | PF | FILE NUMBER | |
| Ckd: | JRD | SHEET 11 | OF 31 |

MHI1
 San. Sewer M/H
 Top El. 39.10
 Inv. 30" SS E. 24.74
 Inv. 30" SS W. 24.74
 Inv. 8" SS N. 26.60

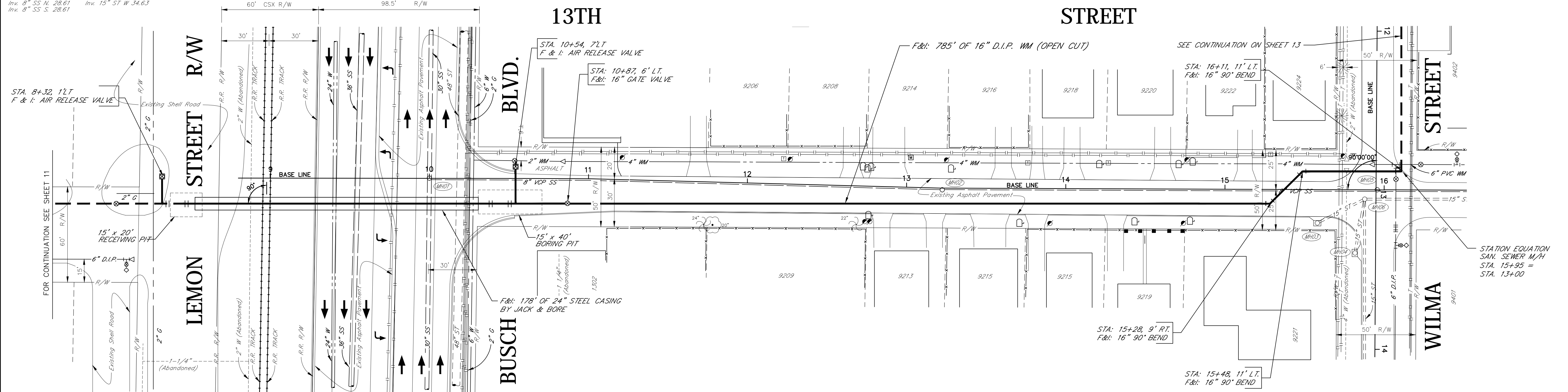
MHI2
 San. Sewer M/H
 Top El. 39.10
 Inv. 6" SS N. 28.61
 Inv. 8" SS S. 28.61

MHI3
 Storm. Sewer M/H
 Top El. 37.30
 Inv. 15" ST W. 33.63

MHI4
 Storm. Sewer M/H
 Top El. 36.80
 Inv. 15" ST SE CLOSED
 Inv. 15" ST E CLOSED

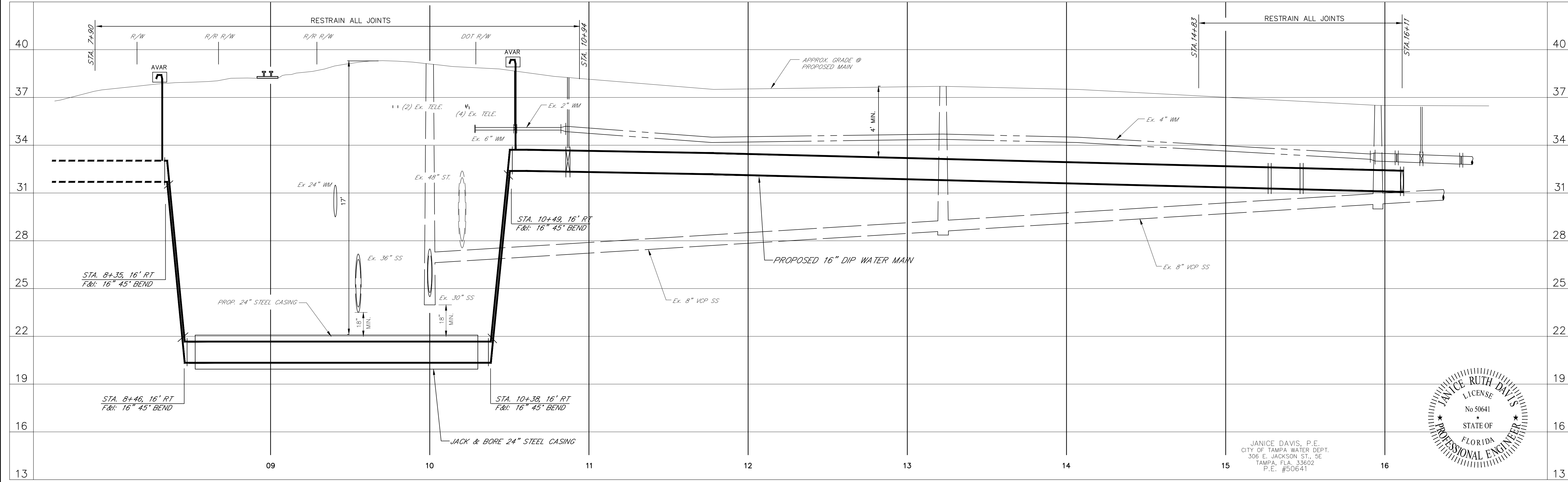
North

SEC. 19-T28S-R19E

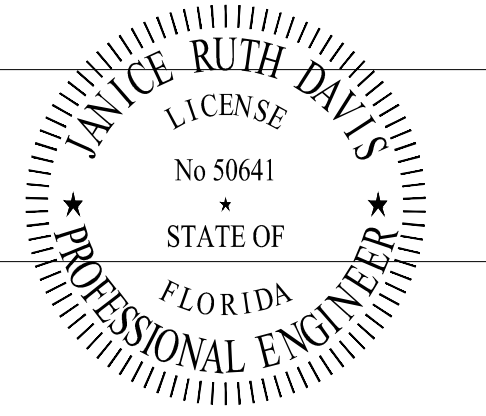


BM: HV-02 0201
 CHARACTER OF MARK: C.O.T.S. ALUM. DISK
 ELEVATION: 26.686 FEET (NAVD)
 LOCATION: SOUTHEAST CORNER OF LINBAUGH AND NEBRASKA AVE.
 25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

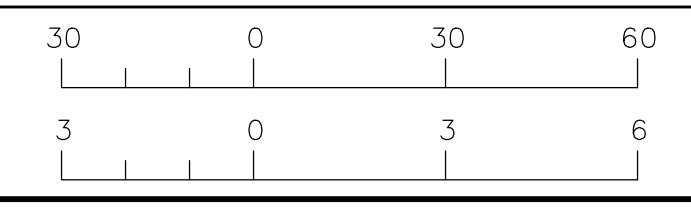


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #50641



16" RAW WATER MAIN

13TH STREET- from Busch Boulevard to Wilma Street



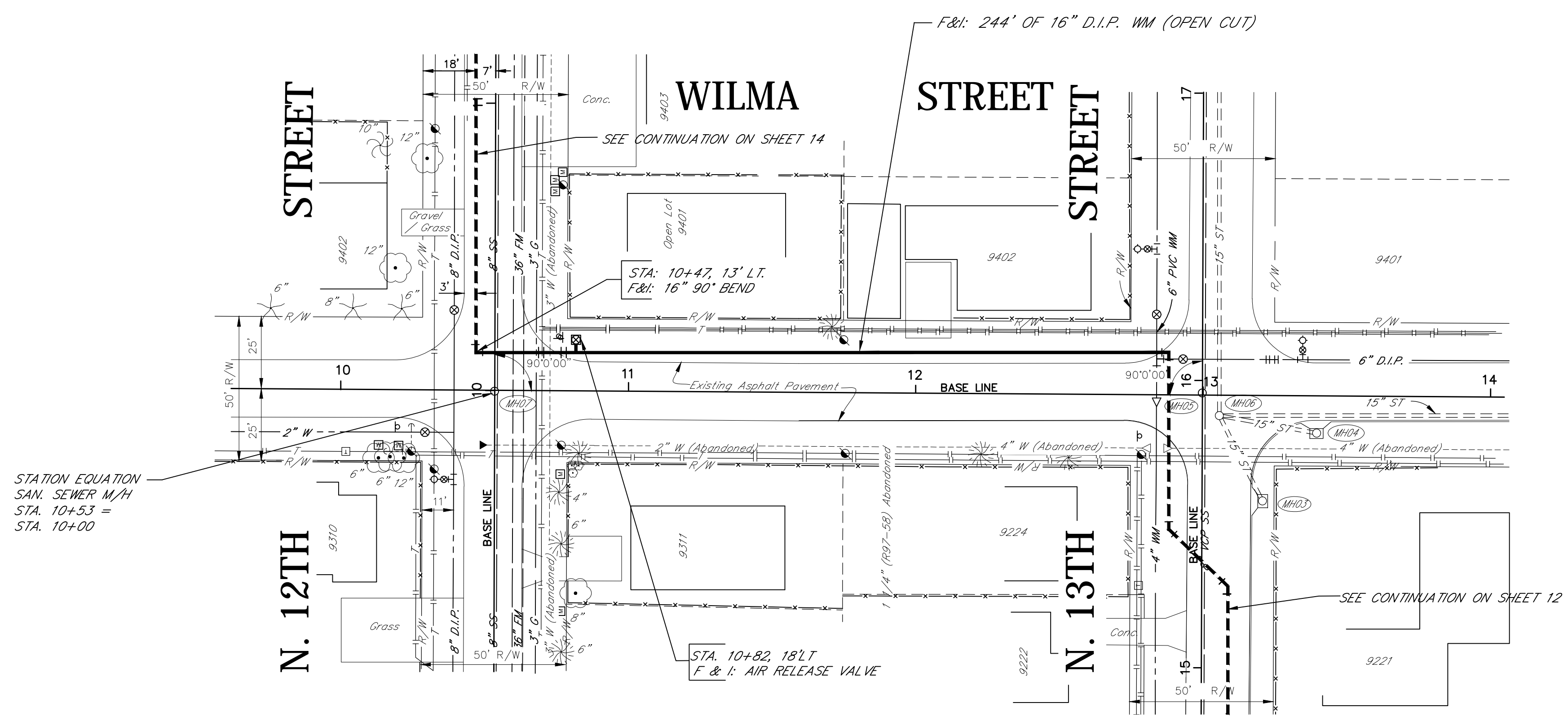
Atlas Page
C13-4

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Des: JRD
 Dwn: BFJ/JDM
 Ckd: JRD

W.O. 7410
 FILE NUMBER
 SHEET 12 OF 31

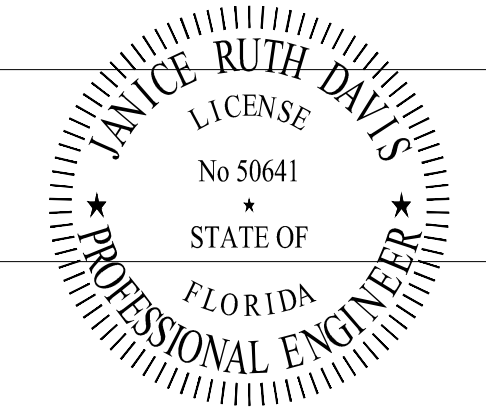
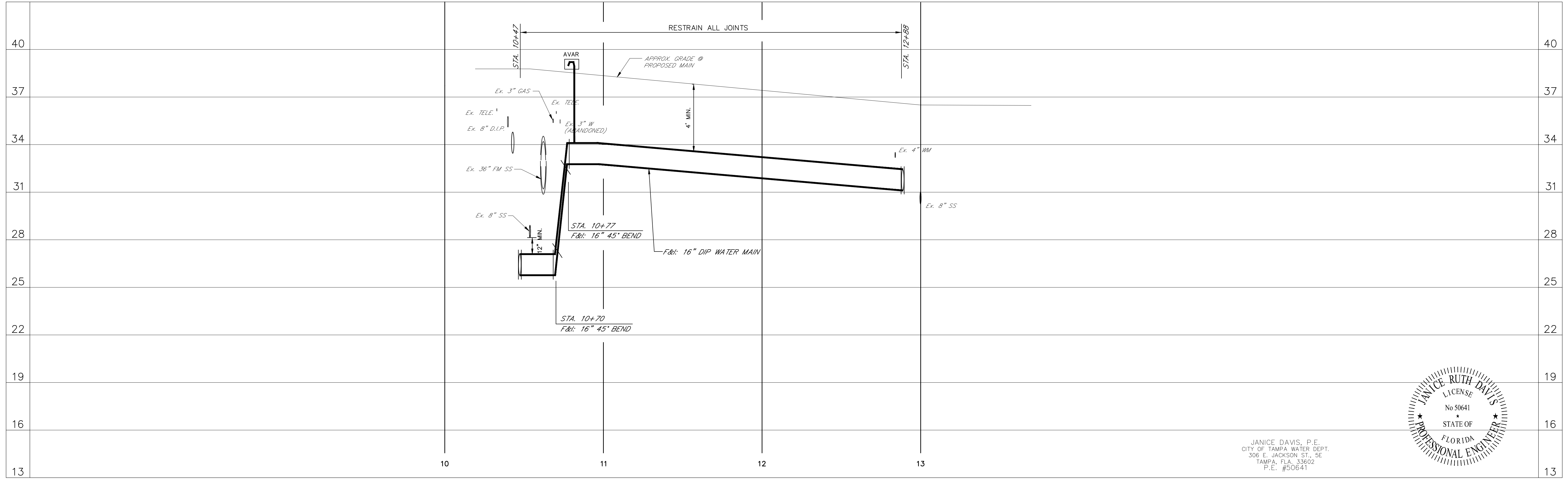
- MHO3**
Storm Sewer M/H
Top El. 37.30
Inv. 15" ST NW 33.63
- MHO7**
Sanitary Manhole
Rim El. = 38.8
Inv. 8" SS N & S = 28.19
- MHO4**
Storm Sewer M/H
Top El. 37.30
Inv. 15" ST W 34.63
- MHO5**
San Sewer M/H
Top El. 36.50
Inv. 8" SS E 30.30
Inv. 8" SS W 30.30
- MHO6**
Storm Sewer M/H
Top El. 36.80
Inv. 15" ST SE CLOSED
Inv. 15" ST E CLOSED



North
SEC. 19-T28S-R19E

BM: HY-02 0201
CHARACTER OF MARK: C.O.T.S. ALUM. DISK
ELEVATION: 26.686 FEET (NAVD)
LOCATION: SOUTHEAST CORNER OF LINBAUGH AND NEBRASKA AVE.
25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

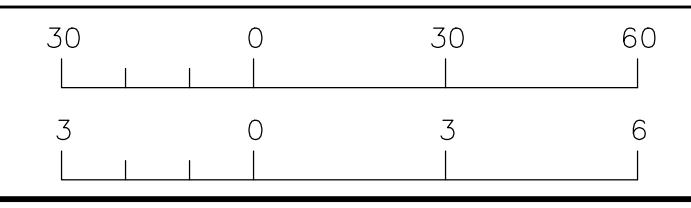


JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

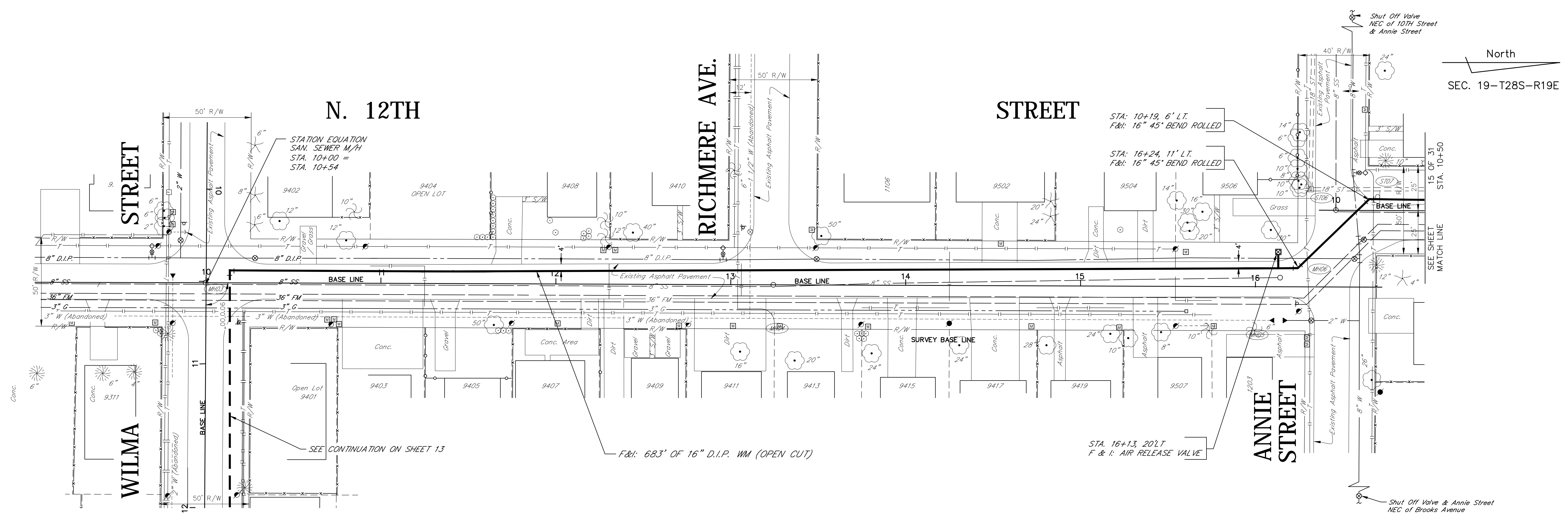
WILMA STREET- from N. 12th Street to N. 13th Street



Atlas Page
C13-4

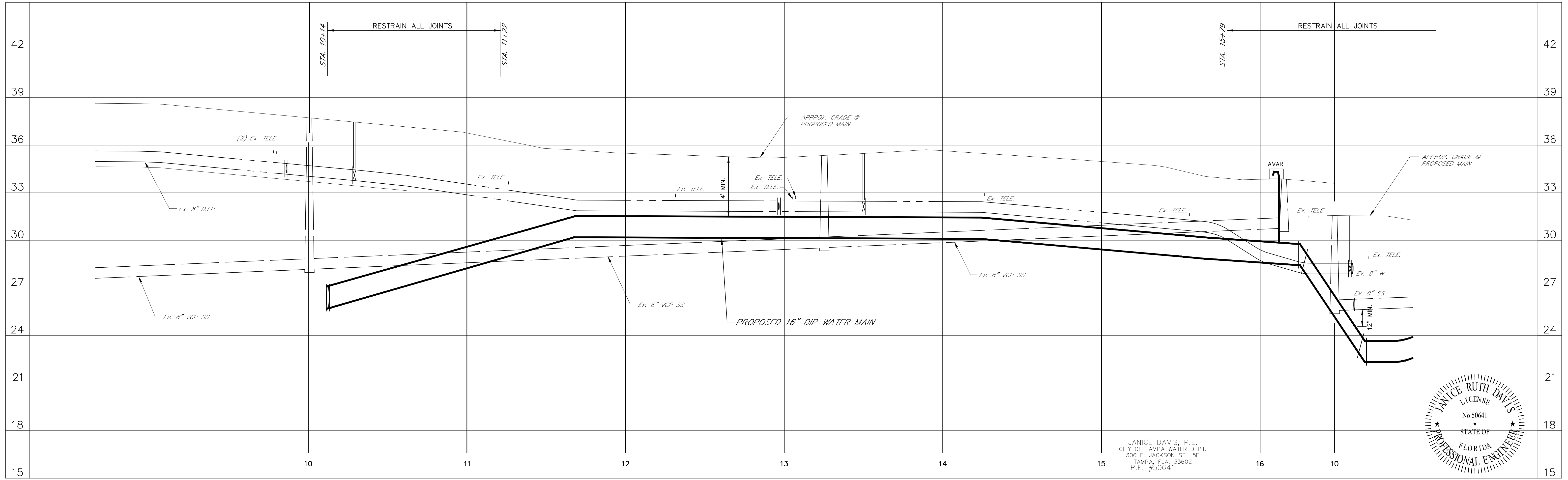
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| No. | Date | REVISION | By |
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Des: JRD
Dwn: BFJ/JDM
Ckd: JRD
W.O. 7410
FILE NUMBER
SHEET 13 OF 31

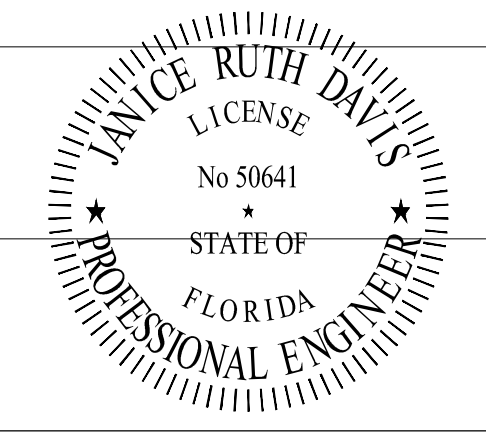


BM: HY-02 0201
 CHARACTER OF MARK: C.O.T.S. ALUM. DISK
 ELEVATION: 26.686 FEET (NAVD)
 LOCATION: SOUTHEAST CORNER OF LINEBAUGH AND NEBRASKA AVE.
 25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

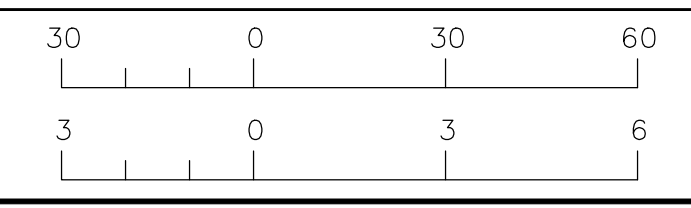


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., SE
 TAMPA, FLA. 33602
 P.E. #50641



16" RAW WATER MAIN

N.12TH STREET- from 245'± south of Richmere Ave. to 230'± north of Annie St.



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 C13-4

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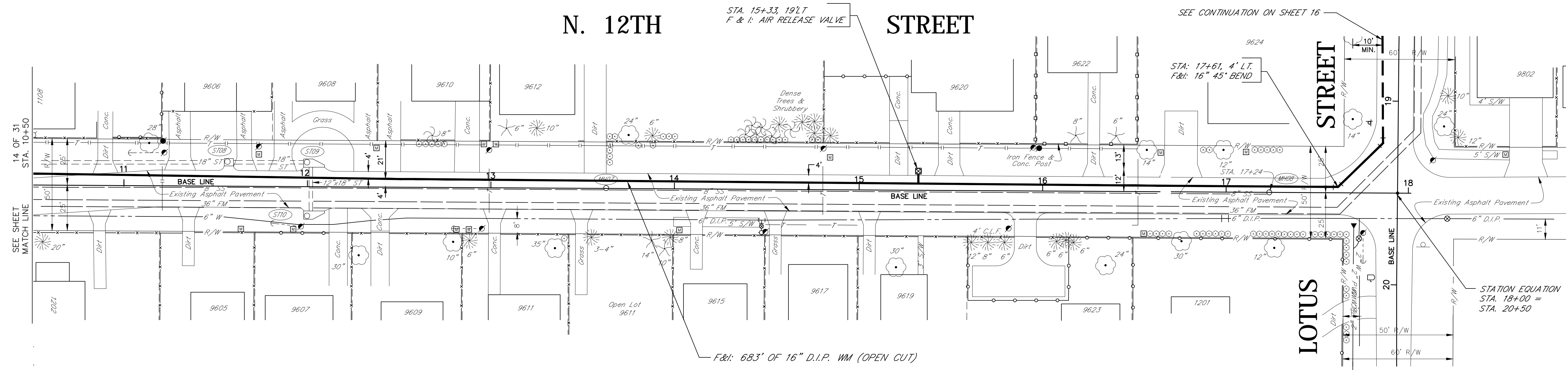
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| Des: | JRD | W.O. 7410 | File: BLUE SINK |
| Dwn: | BFJ/JDM | FILE NUMBER | |
| Ckd: | JRD | SHEET 14 | OF 31 |

MH07
Sanitary Manhole
Rim El. = 31.92
Inv. 8" SS = 28.88

MH08
Sanitary Manhole
Rim El. = 33.32
Inv. 8" SS = 28.81

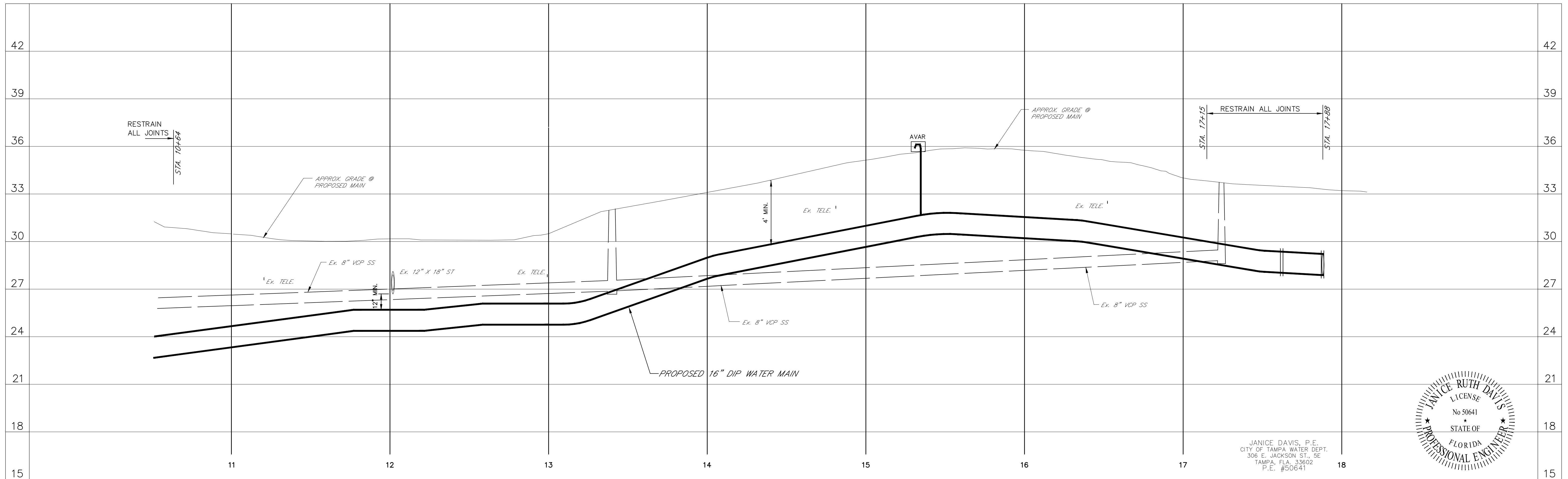
North

SEC. 19-T28S-R19E

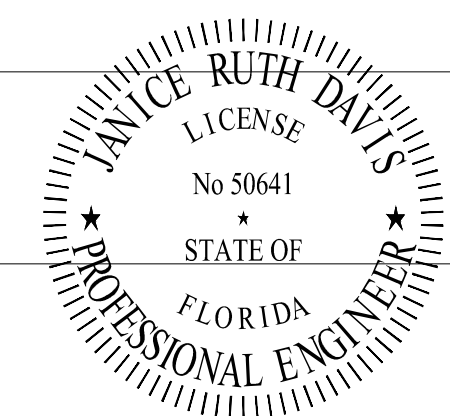


BM: HY-02 0201
CHARACTER OF MARK: C.O.T.S. ALUM. DISK
ELEVATION: 26.686 FEET (NAVD)
LOCATION: SOUTHEAST CORNER OF LINEBAUGH AND NEBRASKA AVE.
25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

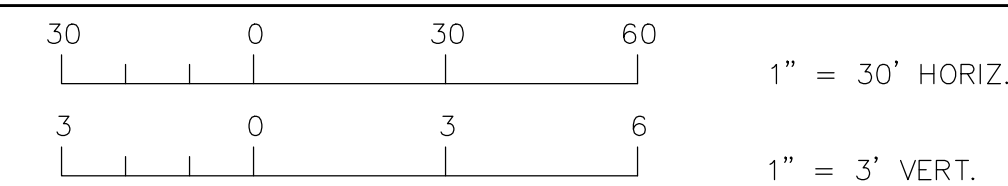


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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

N. 12TH STREET- from 230'± north of Annie St. to Lotus Street



Atlas Page

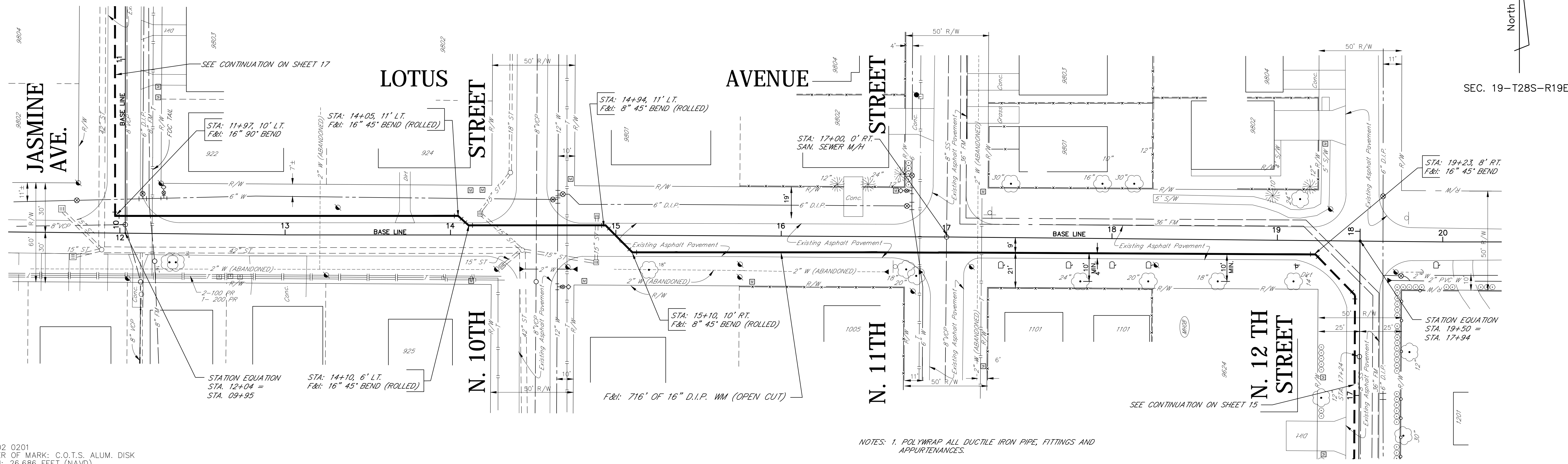
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| Des: | SCS | W.O. 7410 | File: BLUE SINK |
| Dwn: | BFJ/JDM | FILE NUMBER | |
| Ckd: | JRD | SHEET 15 | OF 31 |

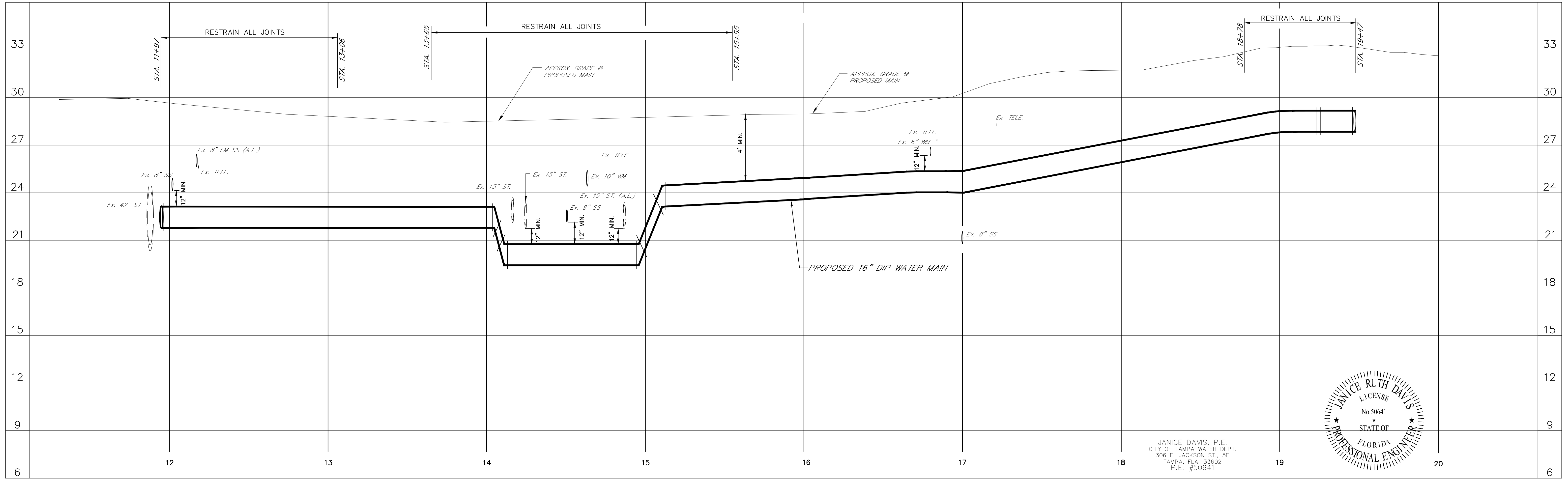
M&D2
Sanitary Manhole
Rim El. = 33.32
Inv. 8" SS = 28.81

M&D2
Sanitary Manhole
Rim El. = 32.31
Inv. 8" SS = 28.87

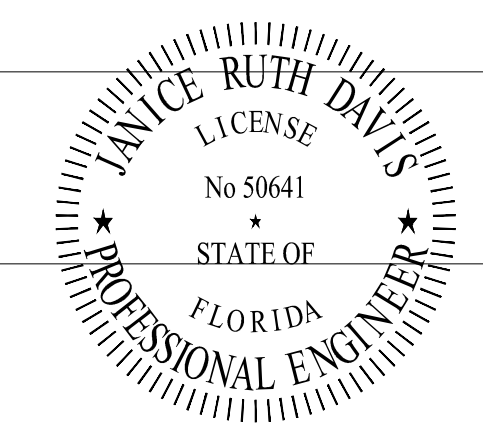


BM: HV-02 0201
CHARACTER OF MARK: C.O.T.S. ALUM. DISK
ELEVATION: 26.686 FEET (NAVD)
LOCATION: SOUTHEAST CORNER OF LINEBAUGH AND NEBRASKA AVE.
25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

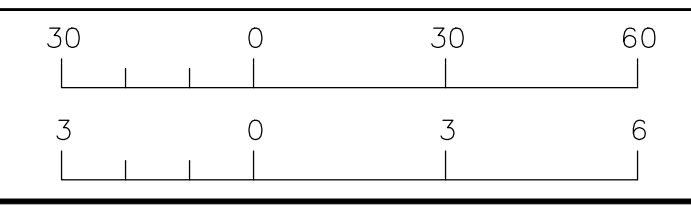


JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

LOTUS AVENUE— from N. 12TH Avenue to N. 11TH Avenue



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| Des: | SCS | W.O. 7410 | File: BLUE SINK |
| Dwn: | BFJ/JDM | FILE NUMBER | |
| Ckd: | JRD | SHEET 16 | OF 31 |

MHI2
 Storm Sewer M/H
 Top El. 30.52
 Inv. 42" ST N. 21.00
 Inv. 30" ST NW & SE 25.50 (APPROX.)
 Inv. 42" ST E. 21.00

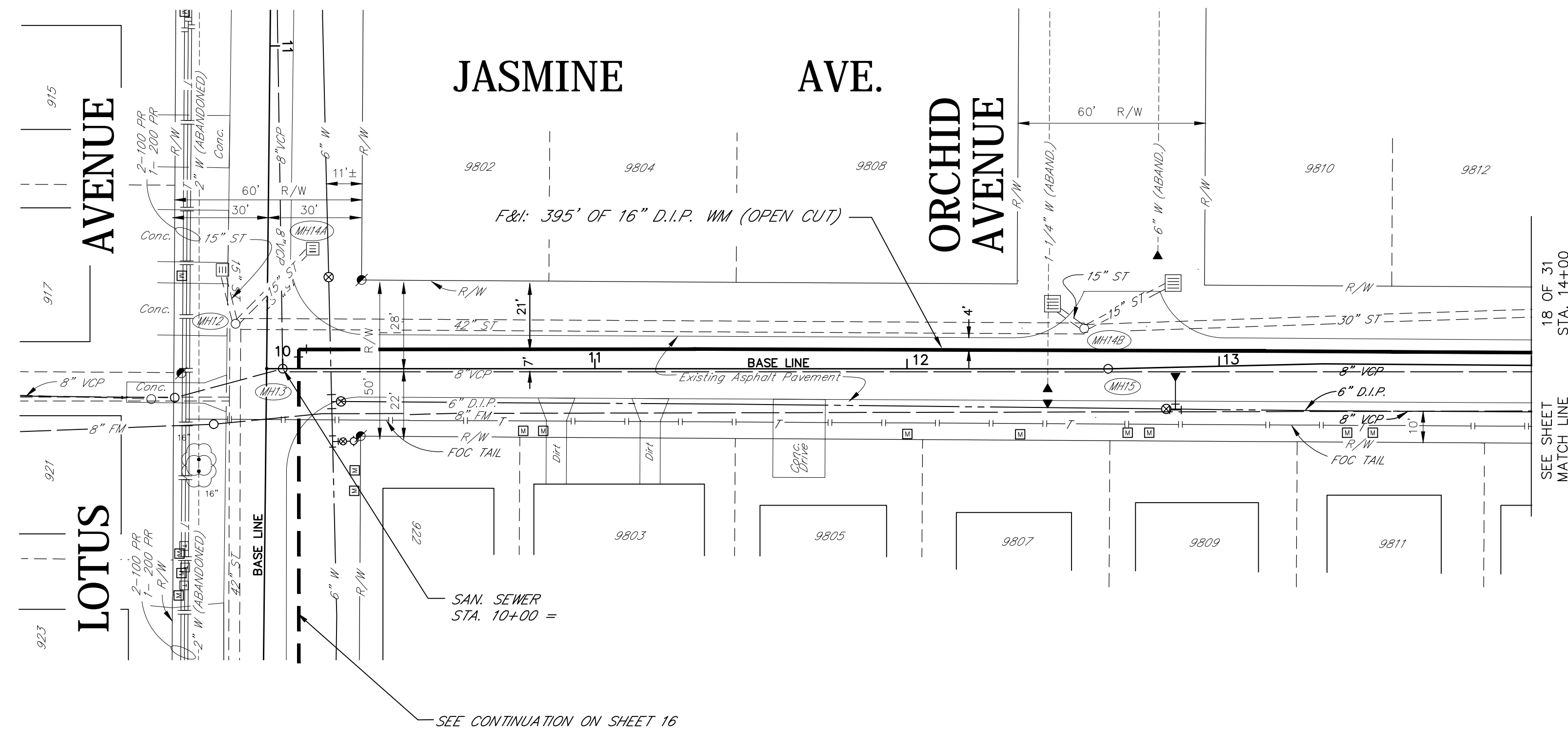
MHI4
 Storm Sewer M/H
 Top El. 27.85
 Inv. 30" ST N. 20.85
 Inv. 42" ST S. 20.85
 Inv. 15" ST NW XX.XX
 Inv. 15" ST SW XX.XX

MHI3
 San Sewer M/H
 Top El. 30.50
 Inv. 8" VCP N. 24.50
 Inv. 8" VCP S. 25.01
 Inv. 8" VCP W. 24.73

MHI5
 San Sewer M/H
 Top El. 27.35
 Inv. 8" VCP N. 21.97
 Inv. 8" VCP S. 22.20

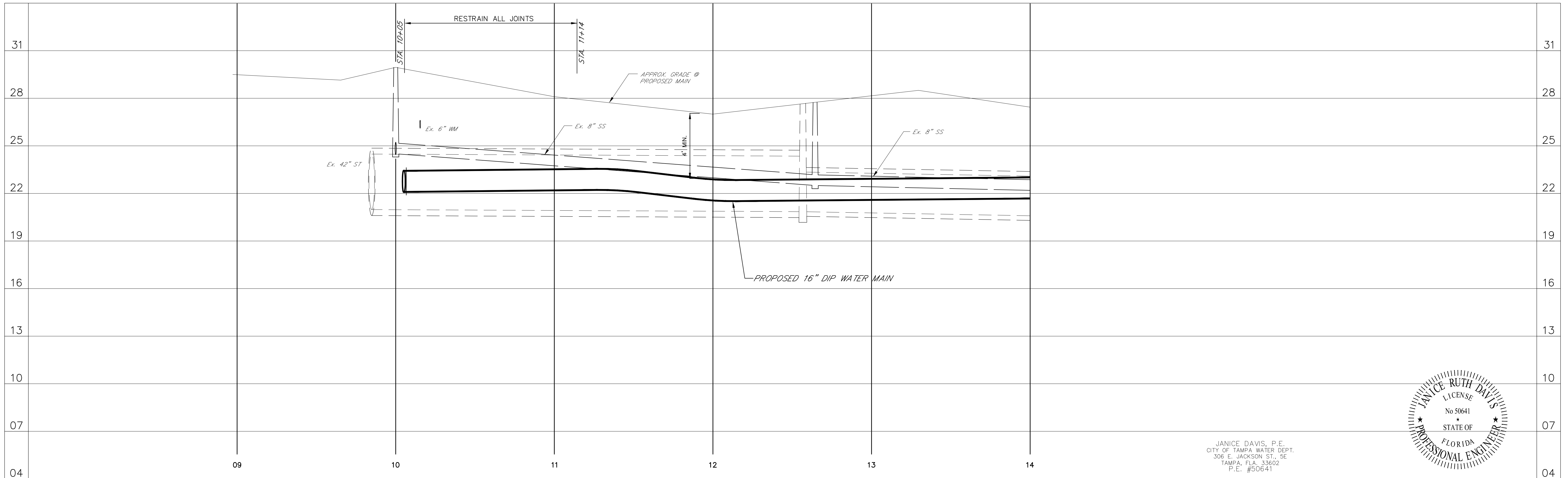
MHI4A
 Storm Sewer M/H
 Top El. 26.93
 Inv. 15" ST SE. 22.10

North
 SEC. 19-T28S-R19E

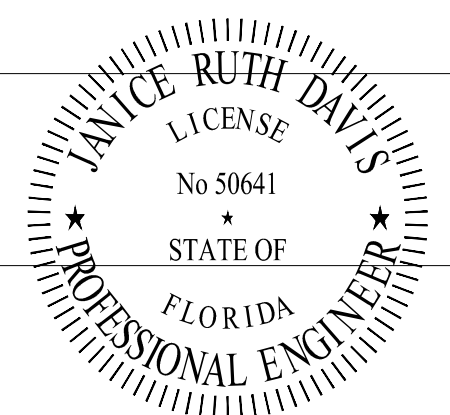


BM: HY-02 0201
 CHARACTER OF MARK: C.O.T.S. ALUM. DISK
 ELEVATION: 26.686 FEET (NAVD)
 LOCATION: SOUTHEAST CORNER OF LINBAUGH AND NEBRASKA AVE.
 25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

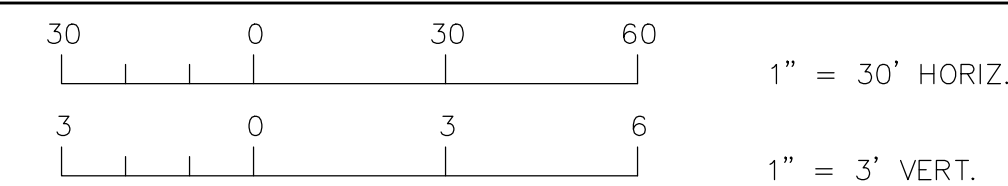


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., SE
 TAMPA, FLA. 33602
 P.E. #50641



16" RAW WATER MAIN

JASMINE AVENUE— from Lotus Avenue to Orchid Avenue



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Des: SCS
 Dwn: BFJ/JDM
 Ckd: JRD

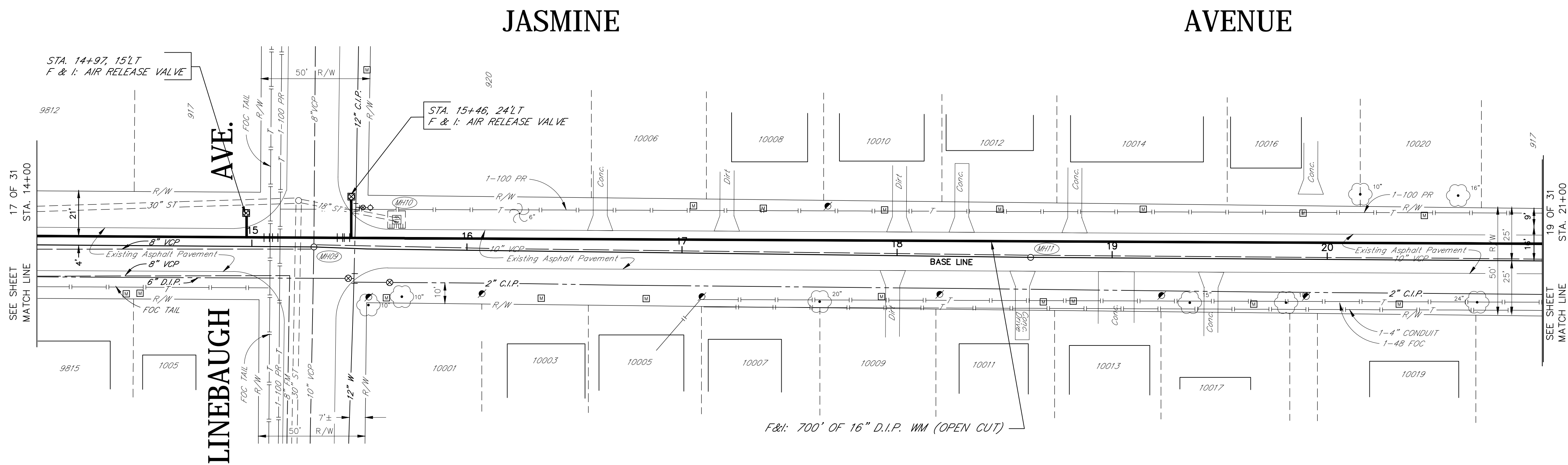
W.O. 7410
 File: BLUE SINK
 SHEET 17 OF 31

MH02
San Sewer M/H
Top El. 28.24
Inv. 10" VCP N. 16.14
Inv. 8" VCP S. 22.97
Inv. 8" VCP E. 16.14
Inv. 8" VCP W. 19.36

MH10
Storm Sewer M/H
Top El. 29.75
Inv. 18" ST S. 24.49

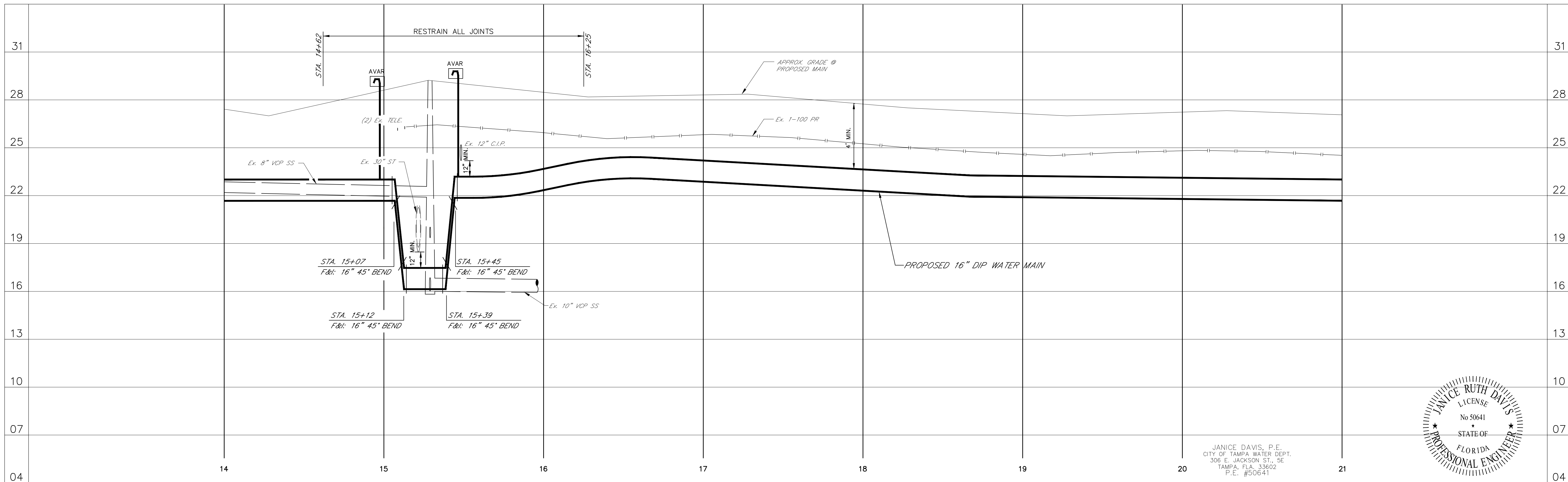
MH11
San Sewer M/H
Top El. 27.66
Inv. 8" VCP N. 17.01
Inv. 8" VCP S. 17.01

North
SEC. 18-T28S-R19E
SEC. 19-T28S-R19E

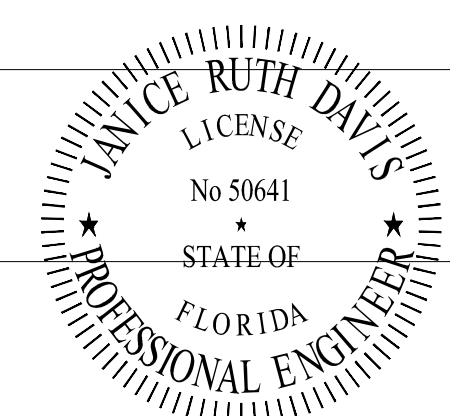


BM: HY-02 0201
CHARACTER OF MARK: C.O.T.S. ALUM. DISK
ELEVATION: 26.686 FEET (NAVD)
LOCATION: SOUTHEAST CORNER OF LINEBAUGH AND NEBRASKA AVE.
25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

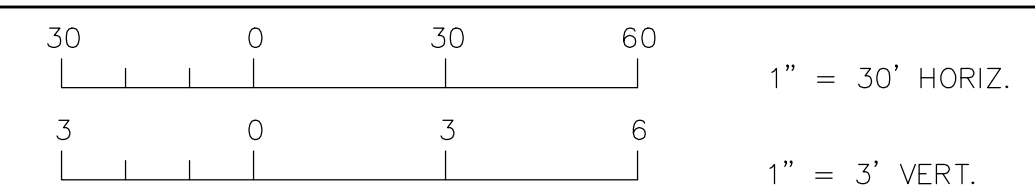
NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.



JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN
JASMINE AVENUE - from Linebaugh to 70± south of Bougainville Avenue

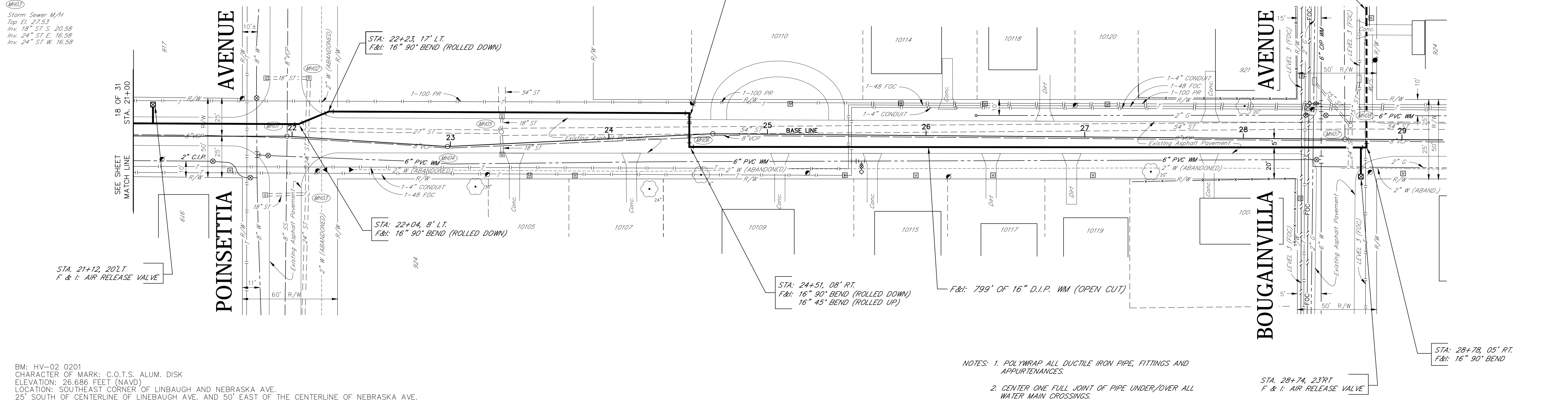


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| Atlas Page | C13-4 |
| No. | Date |
| Approved | REVISION |
| By | Date |

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| Des: | SCS | W.O. 7410 | File: BLUE SINK |
| Dwn: | BFJ/JDM | FILE NUMBER | |
| Ckd: | JRD | SHEET 18 | OF 31 |

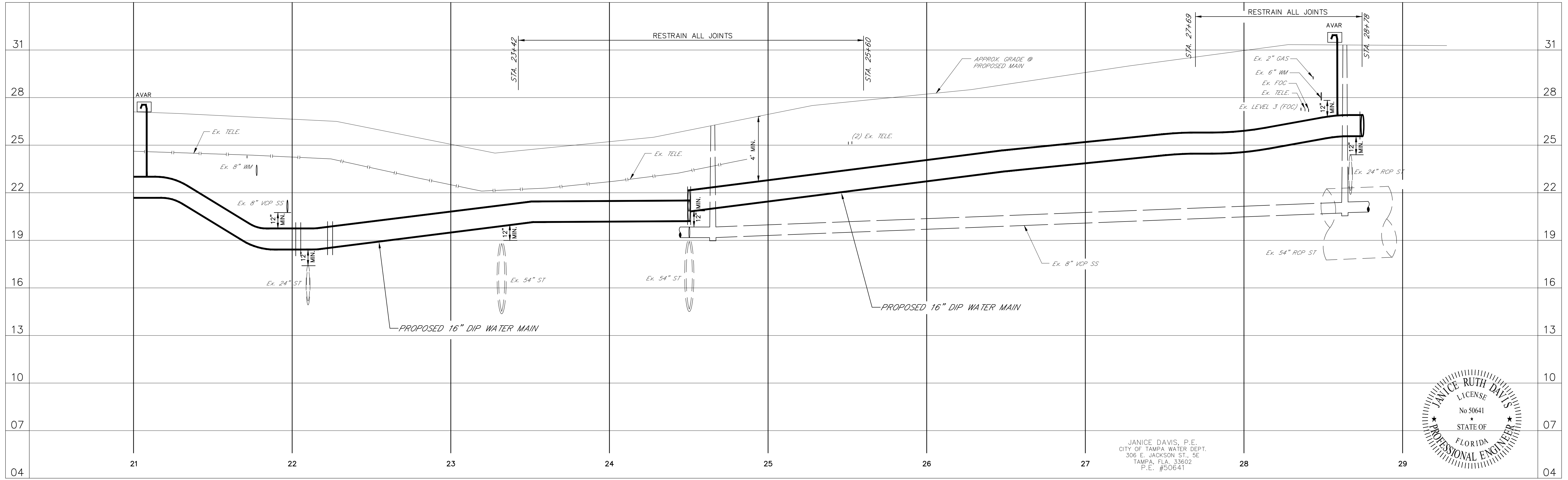
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|---|---|---|---|---|
| MHD1 San Sewer M/H Top El. 26.57 Inv. 8" VCP N. 17.98 Inv. 8" VCP S. 17.98 Inv. 8" VCP E. 17.98 Inv. 8" VCP W. 20.81 | MHD2 Storm Sewer M/H Top El. 24.54 Inv. 54" ST N. 13.50 Inv. 22" ST S. 13.50 Inv. 18" ST E. 21.85 Inv. 24" ST W. 16.58 | MHD3 San Sewer M/H Top El. 23.85 Inv. 8" VCP N. 18.51 Inv. 8" VCP S. 18.51 | MHD4 San Sewer M/H Top El. 25.45 Inv. 8" VCP N. 19.17 Inv. 8" VCP S. 19.17 | MHD5 Storm Sewer M/H Top El. 30.97 Inv. 54" ST N. 18.05 Inv. 54" ST S. (UNKNOWN) Inv. 24" ST E. 22.14 |
|---|---|---|---|---|

North
SEC. 18-T28S-R19E

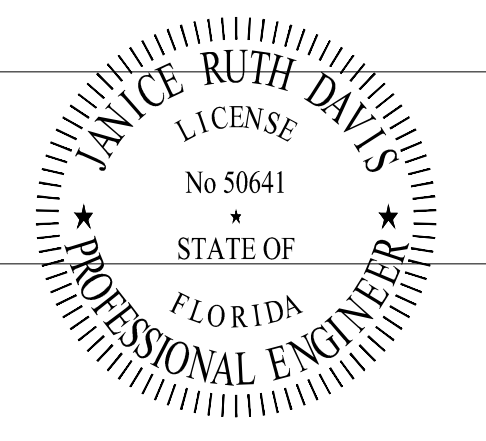


BM: HY-02 0201
CHARACTER OF MARK: C.O.T.S. ALUM. DISK
ELEVATION: 26.686 FEET (NAVD)
LOCATION: SOUTHEAST CORNER OF LINBAUGH AND NEBRASKA AVE.
25' SOUTH OF CENTERLINE OF LINEBAUGH AVE. AND 50' EAST OF THE CENTERLINE OF NEBRASKA AVE.

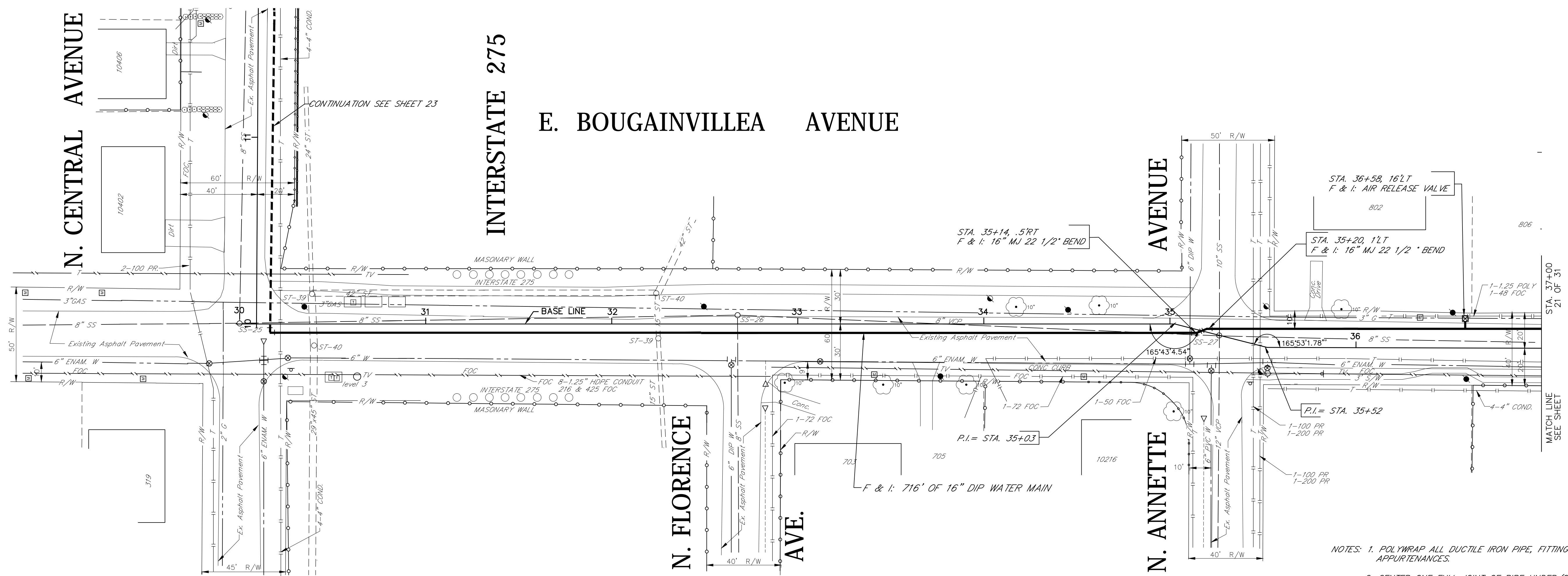
NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.



JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., SE
TAMPA, FLA. 33602
P.E. #50641



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|-------------------------|--------------------|---|---|------------------------------|-------------------|------------------|----|--------------------------------------|--------------------------|-----------------|
| WATER DEPARTMENT | 16" RAW WATER MAIN | JASMINE AVENUE- from Poinsettia Avenue to Bougainville Avenue | 30 0 30 60 3 0 3 6 1" = 30' HORIZ. 1" = 3' VERT. | Atlas Page B13-3 C13-4 | No. Date Approved | REVISION Date | By | Des: SCS Dwn: BFJ/JDM Ckd: JRD | W.O. 7410 FILE NUMBER | File: BLUE SINK |
|-------------------------|--------------------|---|---|------------------------------|-------------------|------------------|----|--------------------------------------|--------------------------|-----------------|

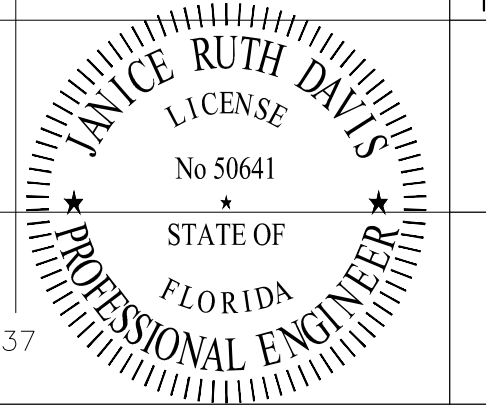
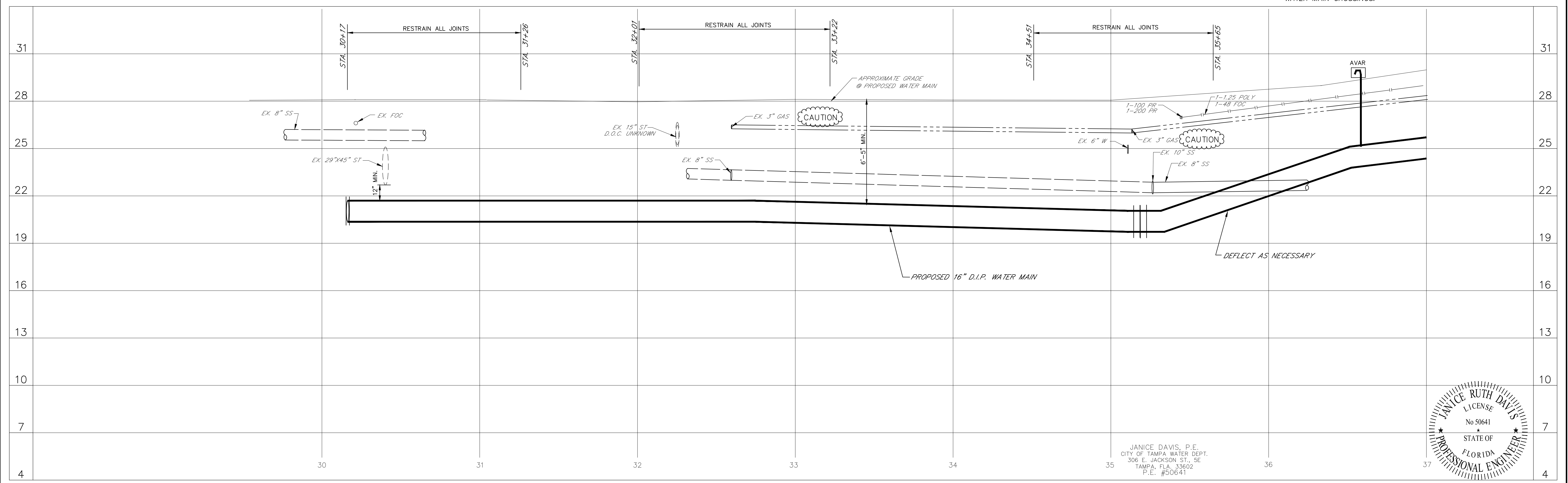


NORTH

Sec. 13-T28S-R18E

- SAN. SEWER
SS-25
INV. 25.50 (8" SS)
- SAN. SEWER
SS-26
INV. 23.14 (8" SS)
- SAN. SEWER
SS-27
N. INV. 22.15 (10" SS)
E & W INV. 22.27 (8" SS)
- STORM WATER
ST-38
N. INV. 22.7 (29"x45" RCP)
- STORM WATER
ST-39
INV. 25.5 (15" RCP)

- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.



JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641

BOUGAINVILLEA AVENUE

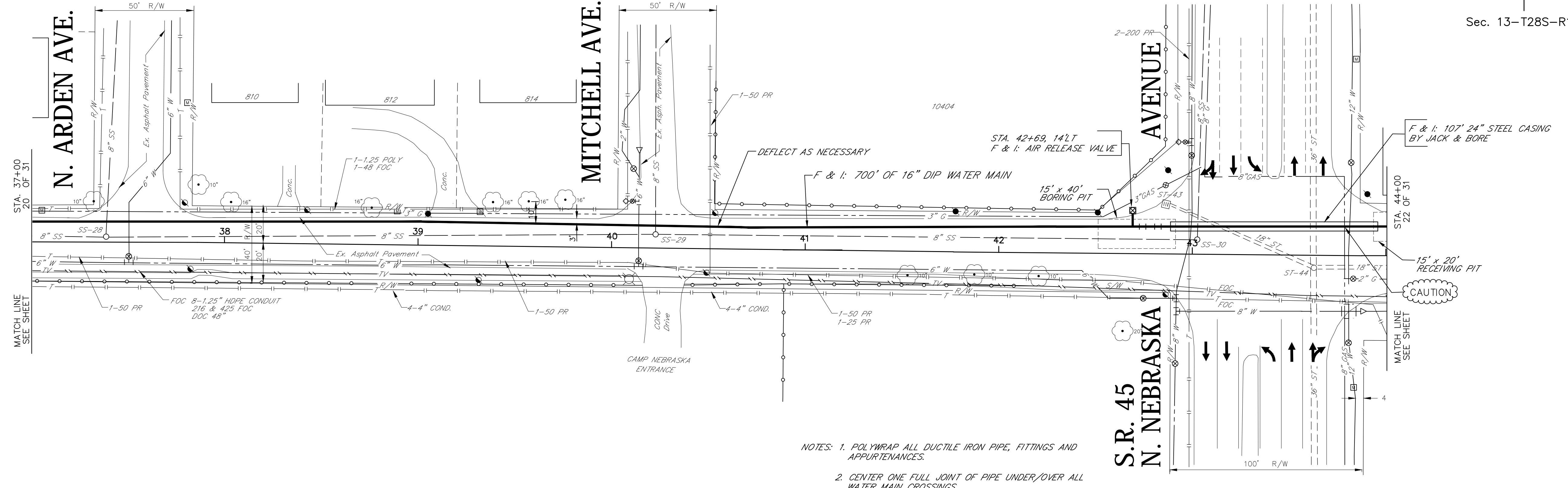
NORTH
Sec. 13-T28S-R18E

SAN. SEWER
SS-28
INV. 22.94 (8" SS)

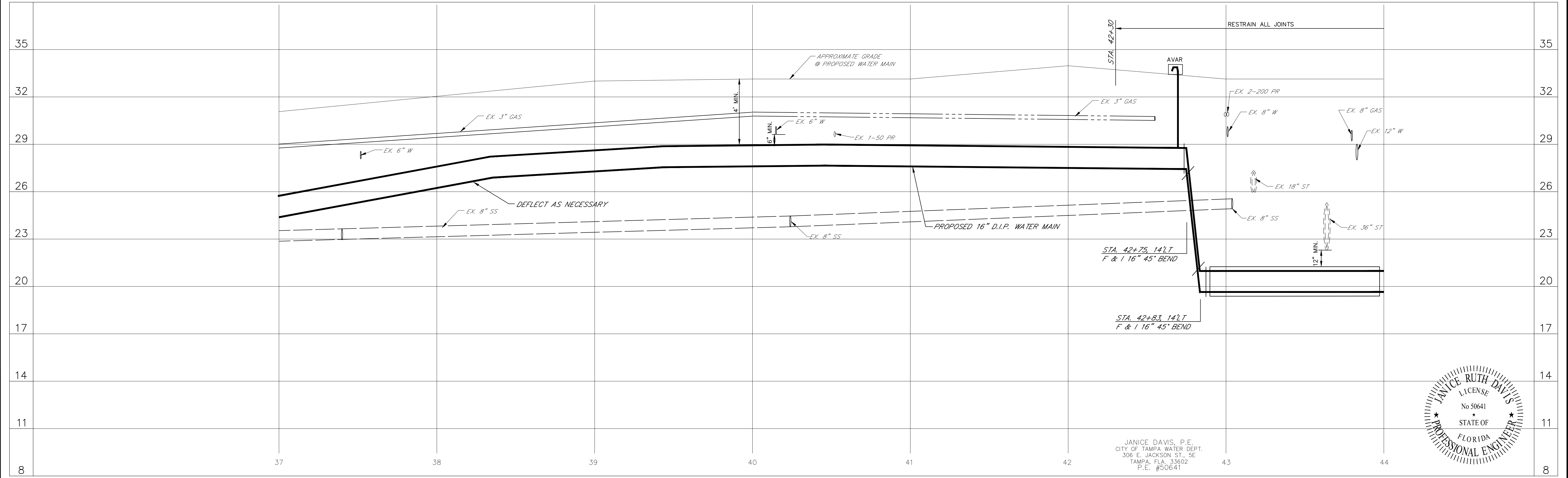
SAN. SEWER
SS-29
INV. 23.86 (8" SS)

SAN. SEWER
SS-30
N. INV. 24.96 (8" SS)
E & W INV. 22.27 (8" SS)

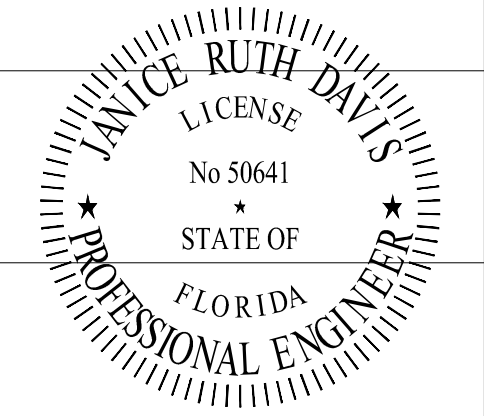
STORM WATER
ST-44
NW INV. 25.9 (18" RCP)
N. INV. 22.3 (36" RCP)



NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

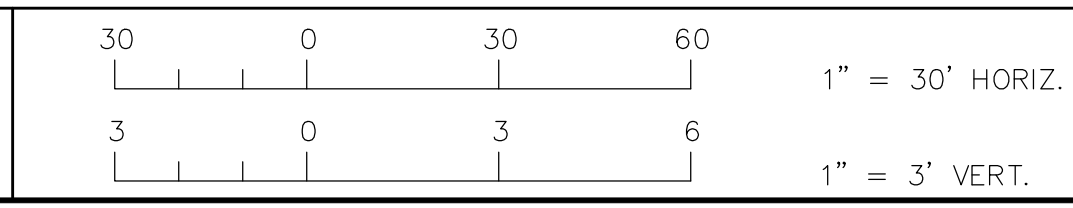


JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., SE
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

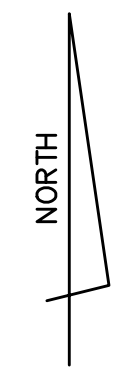
*E. BOUGAINVILLEA AVE. - from
Sta. 37+00 to Nebraska Ave.*



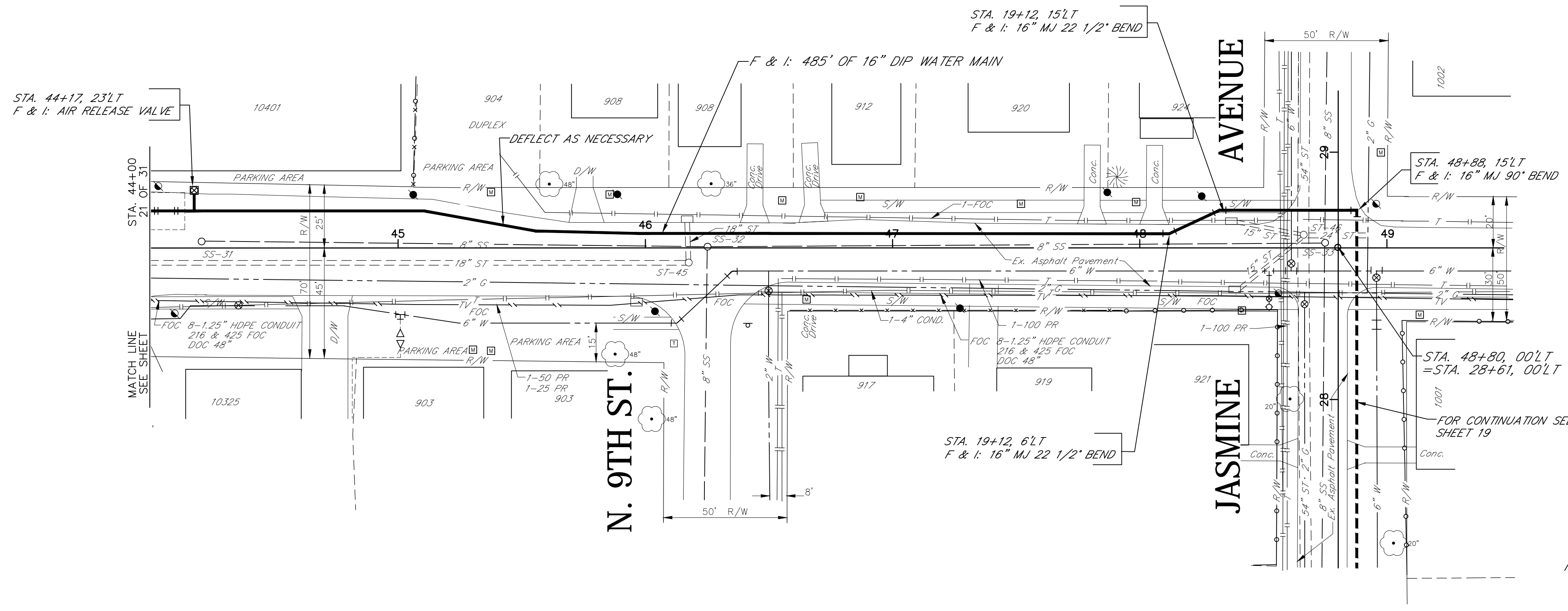
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| Atlas Page | |
| B12-2 | |
| No. | Date |
| Approved | REVISION |
| | Date |

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| Des: | JRD | W.O. 7410 | File: BLUE SINK |
| Dwn: | JDM | FILE NUMBER | |
| Ckd: | JH | SHEET 21 | OF 31 |

E. BOUGAINVILLEA AVENUE



Sec. 18-T28S-R19E



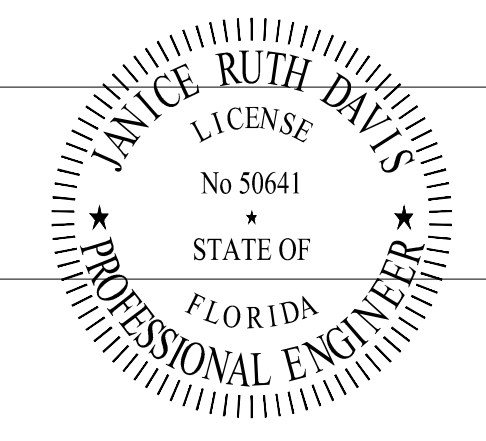
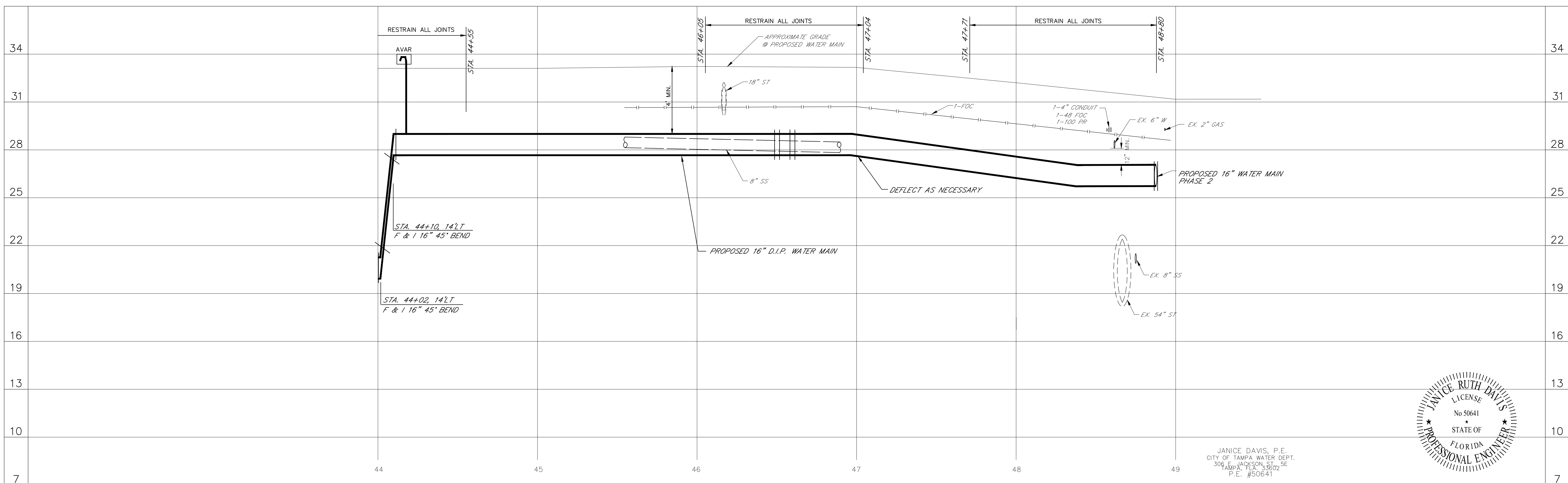
SAN. SEWER
SS-32
E. & W. INV. 27.54 (8" SS)

SAN. SEWER
SS-33
INV. 20.73 (8" SS)

STORM WATER
ST-45
N. INV. 25.9 (18" RCP)

STORM WATER
ST-46
N. INV. 18.05 (54" RCP)
E. INV. 22.14 (24" RCP)
W. INV. UNKNOWN (15" RCP)

- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

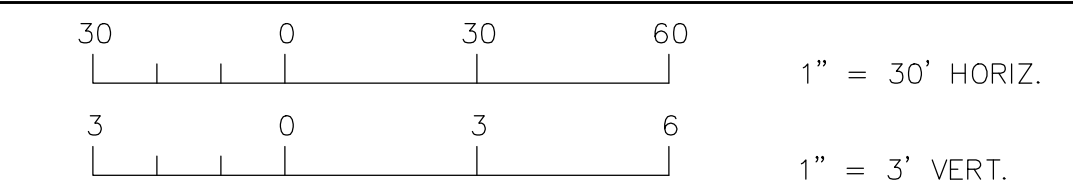


JANICE DAVIS, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST. SE
TAMPA, FL 33602
P.E. #50641



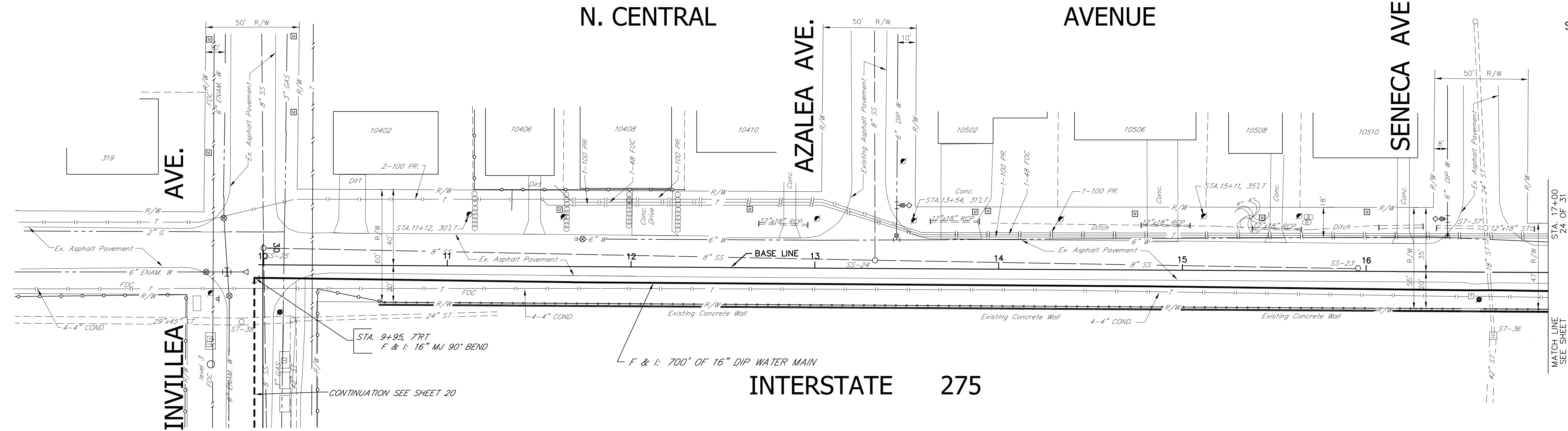
WATER DEPARTMENT
16" RAW WATER MAIN

E. BOUGAINVILLEA AVE. - from:
Sta. 44+00 to Jasmine Ave.



| | | | |
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| Atlas Page | | | |
| B13-3 | No. Date | REVISION | By |
| | Approved | Date | |

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| Des: JH | W.O. 7410 | File: BLUE SINK |
| Dwn: JDM | | FILE NUMBER |
| Ckd: JRD | | |
| SHEET 22 OF 31 | | |



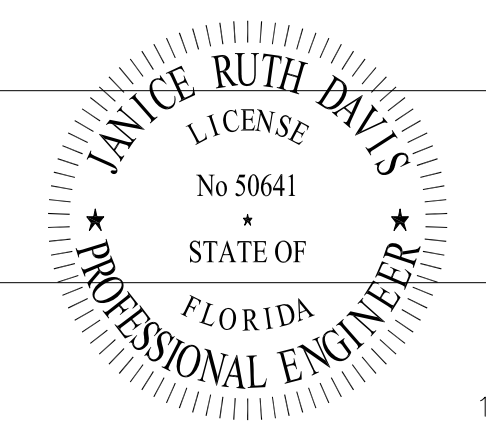
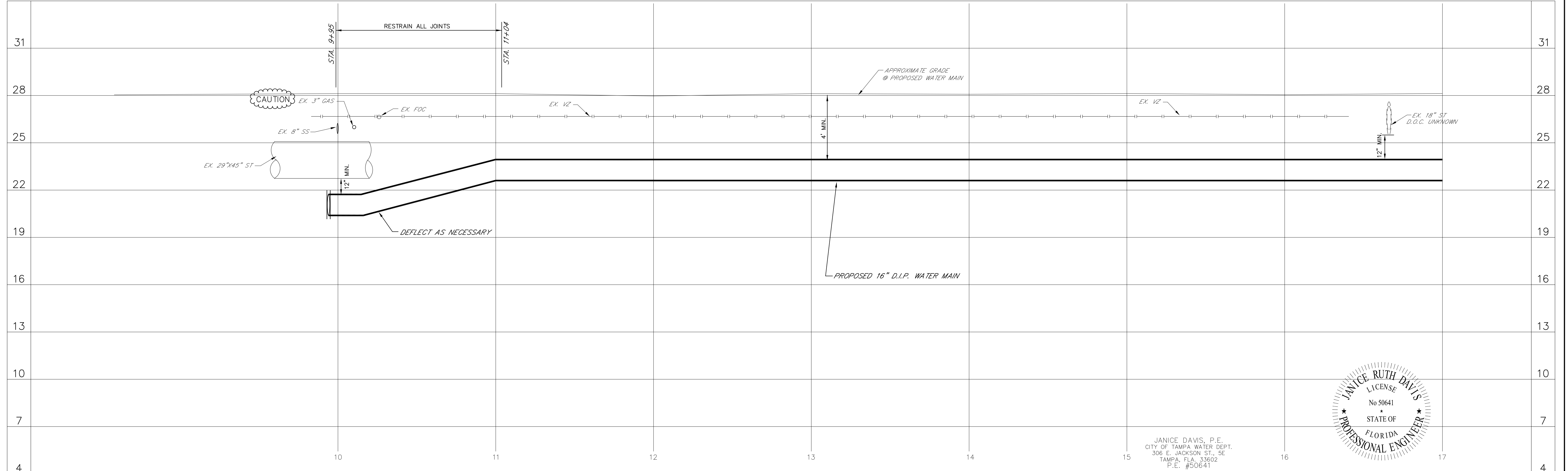
SAN. SEWER
 SS-26
 INV. 25.50 (8" SS)

STORM WATER
 ST-36
 E. INV. 25.6 (18" RCP)

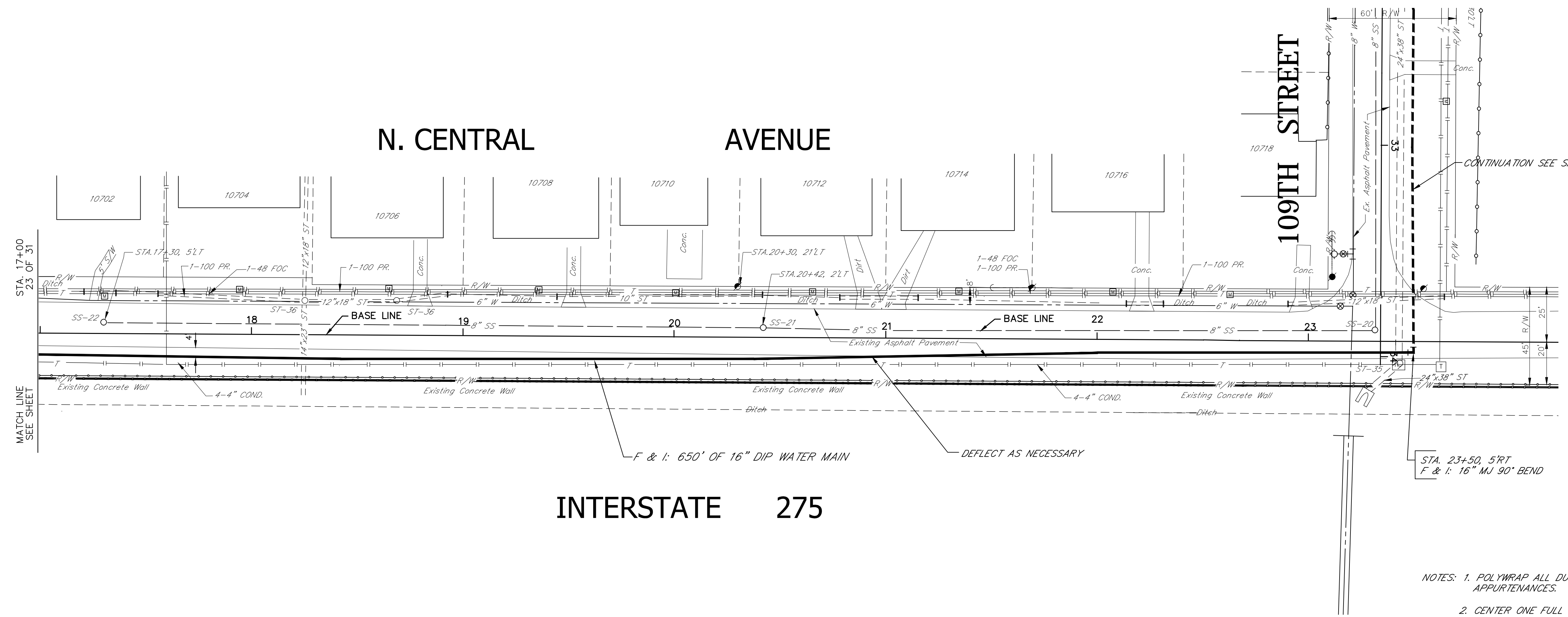
STORM WATER
 ST-37
 W. INV. 25.5 (18" RCP)

STORM WATER
 ST-38
 N. INV. 22.7 (29"x45" RCP)

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

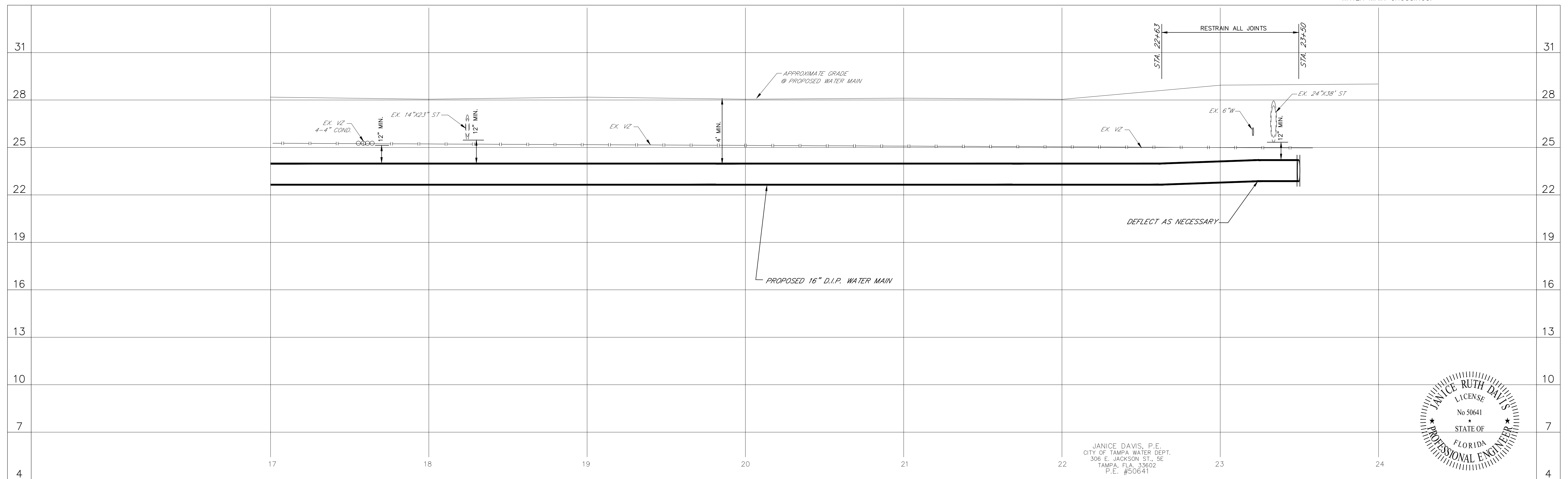


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., SE
 TAMPA, FLA. 33602
 P.E. #50641

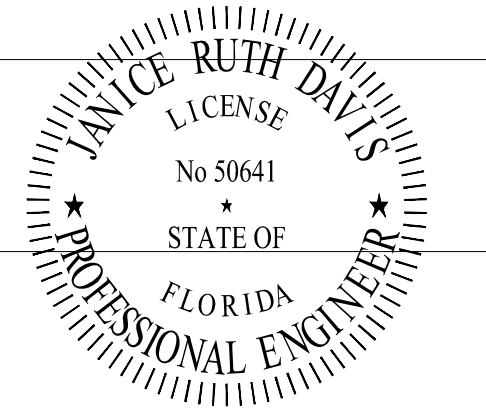


- SAN SEWER
 SS-20
 INV. 23.73 (8" SS)
- SAN SEWER
 SS-21
 INV. 27.00 (8" SS)
- SAN SEWER
 SS-22
 INV. 29.15 (8" SS)
- STORM WATER
 ST-35
 INV. 25.3 (24"x38" RCP)
- STORM WATER
 ST-36
 INV. 25.5 (14" X23" RCP)

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

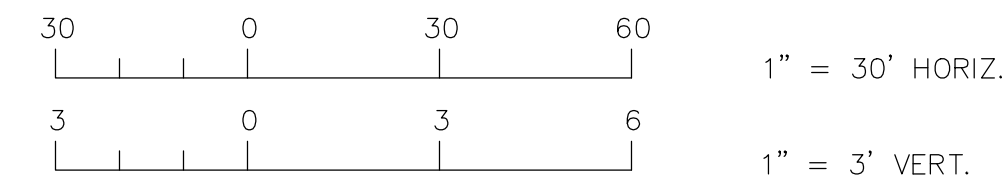


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #50641



16" RAW WATER MAIN

N. CENTRAL AVE. -from
 Sta. 17+00 to 109th St.



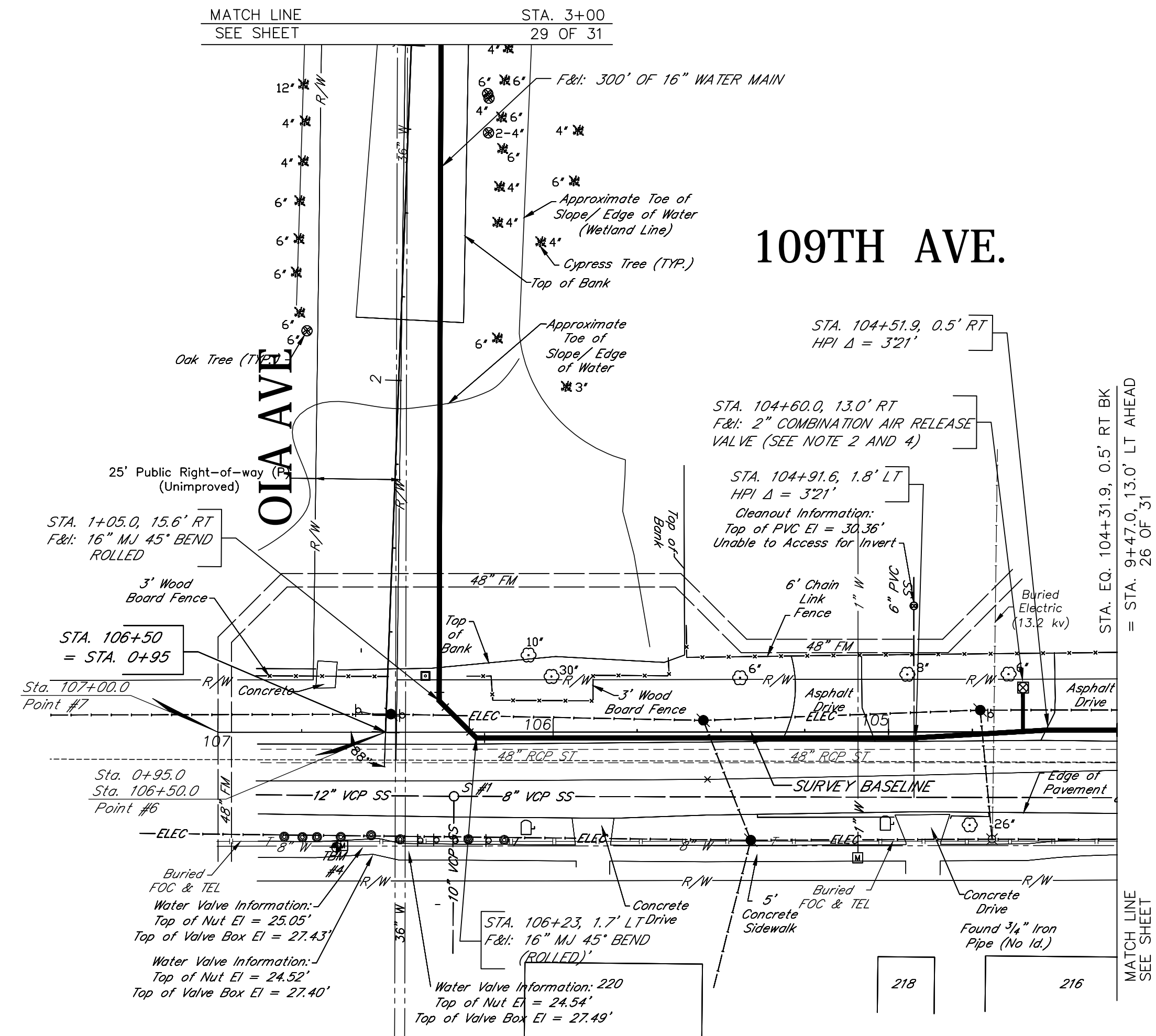
Atlas Page
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| No. | Date | REVISION | By |
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| Des: | JH | W.O. 7410 | File: BLUE SINK |
| Dwn: | JDM | FILE NUMBER | |
| Ckd: | JRD | SHEET 24 | OF 31 |

Baseline Points Coordinate Table

| Point # | Station | Northing | Eastng | Elevation |
|---------|----------|------------|-----------|-----------|
| 1 | 23+00.0 | 1352188.38 | 507005.01 | 25.43 |
| 2 | 16+50.0 | 1351538.55 | 506945.96 | 23.67 |
| 3 | 14+50.0 | 1351533.51 | 506748.02 | 27.93 |
| 4 | 13+25.0 | 1351408.75 | 506753.84 | 25.55 |
| 5 | 11+75.0 | 1351274.91 | 506886.12 | 25.15 |
| 6 | 0+95.0 | 1350195.67 | 506845.62 | 27.27 |
| 7 | 107+00.0 | 1350195.64 | 506895.62 | 26.90 |
| 8 | 100+00.0 | 1350196.11 | 507295.62 | 30.22 |



GENERAL SURVEY NOTES

- THE HORIZONTAL DATUM UTILIZED FOR THIS PROJECT IS NAD 1983 (2007) FLORIDA WEST ZONE, U.S. SURVEY FEET.
- THE VERTICAL DATUM UTILIZED FOR THIS PROJECT IS NGVD 1988, U.S. SURVEY FEET. THE BENCHMARK UTILIZED WAS CITY OF TAMPA BENCHMARK "HV-02 0199" WITH AN ELEVATION OF 30.06 FEET. DATUM CONVERSION: NAVD 1988 = NGVD 1929 - 0.84'

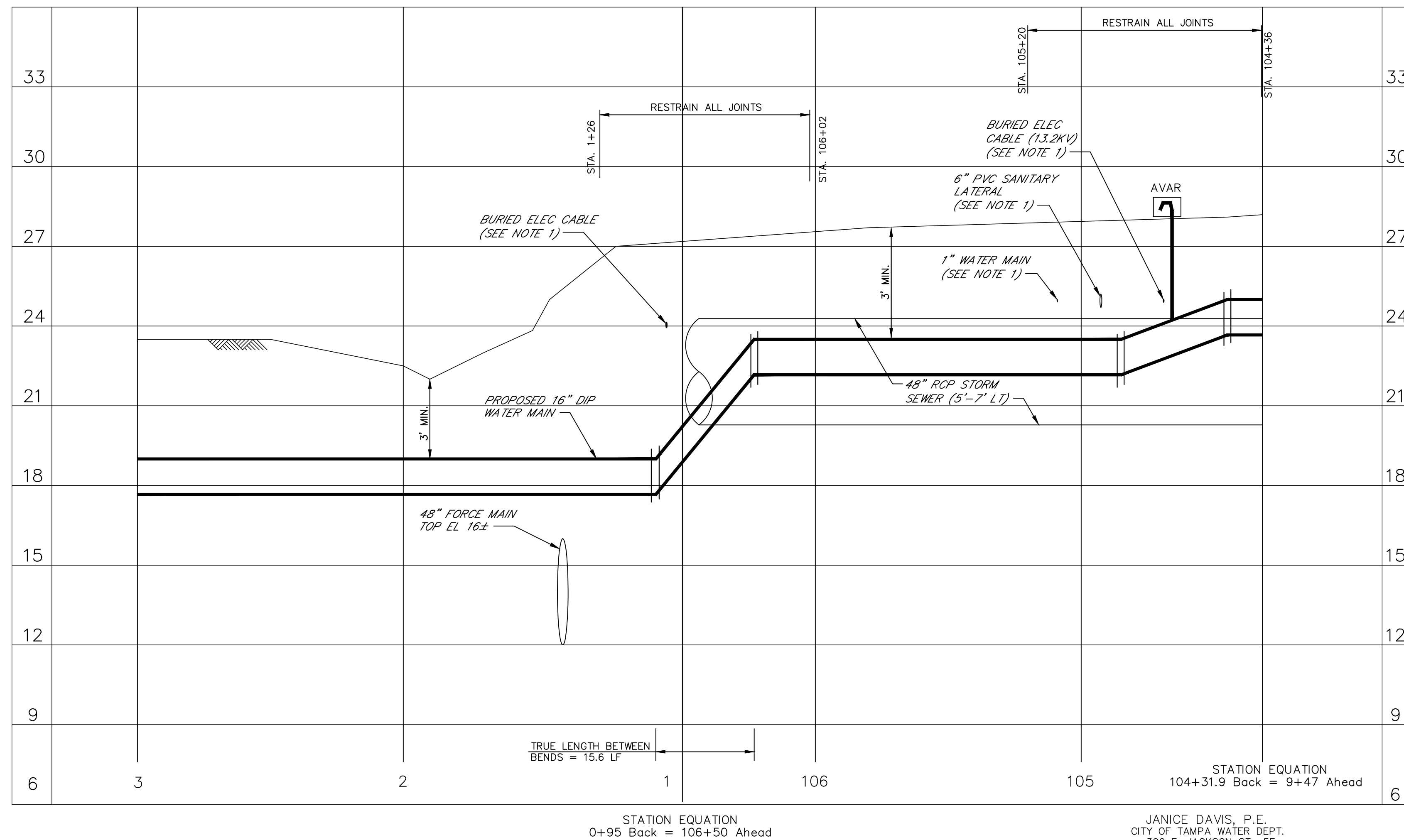
BM: #4 Sta. 0+60, ELEV. 27.42
 Set P.K. nail & disk "SurvTech Trav. Pt" on 10'± South of the South edge of pavement of 109th Ave.

SAN. SEWER
 S-1
 E. INV. 14.08 (8" CLAY SS)
 S. INV. 13.82 (10" CLAY SS)
 W. INV. 13.69 (12" CLAY SS)

SAN. SEWER
 S-2
 N. INV. 15.12 (8" CLAY SS)
 E. INV. 15.07 (8" CLAY SS)
 W. INV. 15.05 (8" CLAY SS)

STORM WATER
 ST-2
 N. INV. 20.01 (24" RCP)

STORM WATER
 ST-1
 N. INV. 21.38 (24" RCP)
 E. INV. 20.28 (48" RCP)
 W. INV. 20.28 (48" RCP)



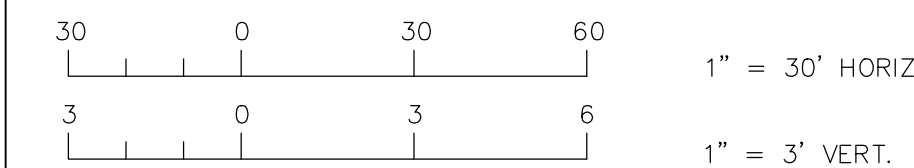
- NOTES:
- POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 - CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

- NOTES:
- VERIFY LOCATION OF BURIED ELECTRIC CABLE, 6" SANITARY LATERAL, AND 1" WATER MAIN PRIOR TO CONSTRUCTION OF NEW 16" WATER MAIN.
 - INSTALL 2" COMBINATION AIR RELEASE VALVE PER CITY OF TAMPA STANDARD DETAIL 2.14.
 - INSTALL SILT FENCE ALONG THE TOP OF BANK FROM STA. 2+00 TO STA. 3+00.
 - PROVIDE AIR RELEASE VALVE TAP AT HIGH POINT (STA 104+40) AND ABOVE GROUND AIR VALVE AT (STA 104+60).



16" RAW WATER MAIN

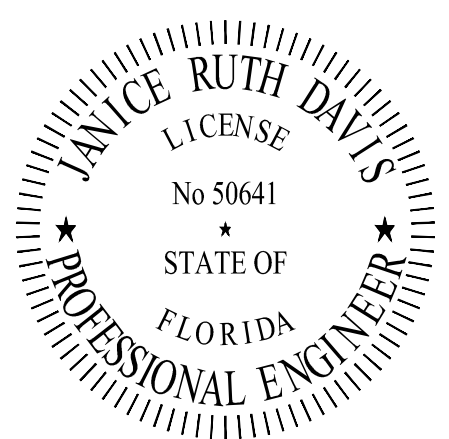
109th AVE. - from
 Ola Ave. to Sta. 3+00



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 B12

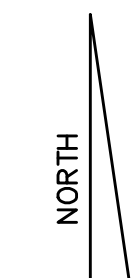
JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5F
 TAMPA, FLA. 33602
 P.E. #50641

| | | |
|----------|-------------|-----------------|
| Des: JH | W.O. 7410 | FILE: BLUE SINK |
| Dwn: JDM | FILE NUMBER | |
| Ckd: JRD | SHEET 25 | OF 31 |

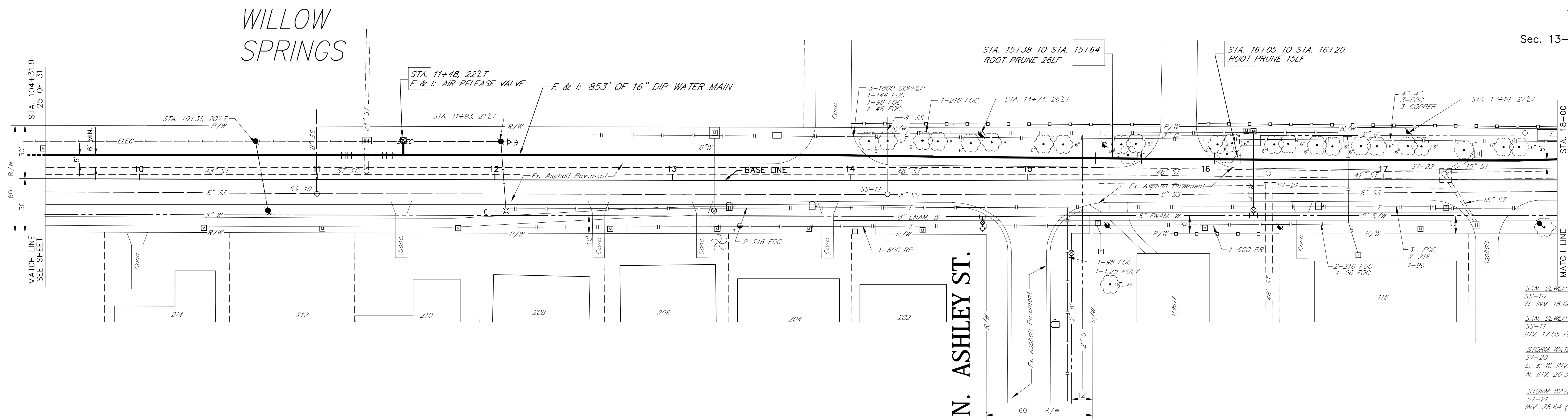


109TH

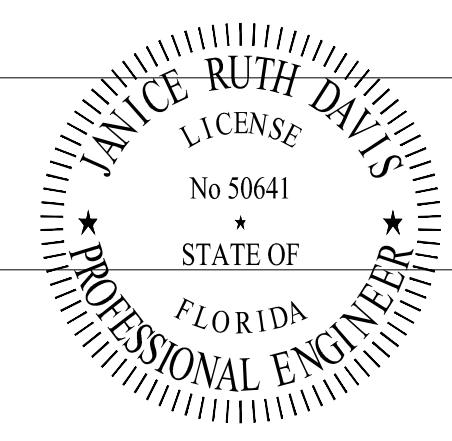
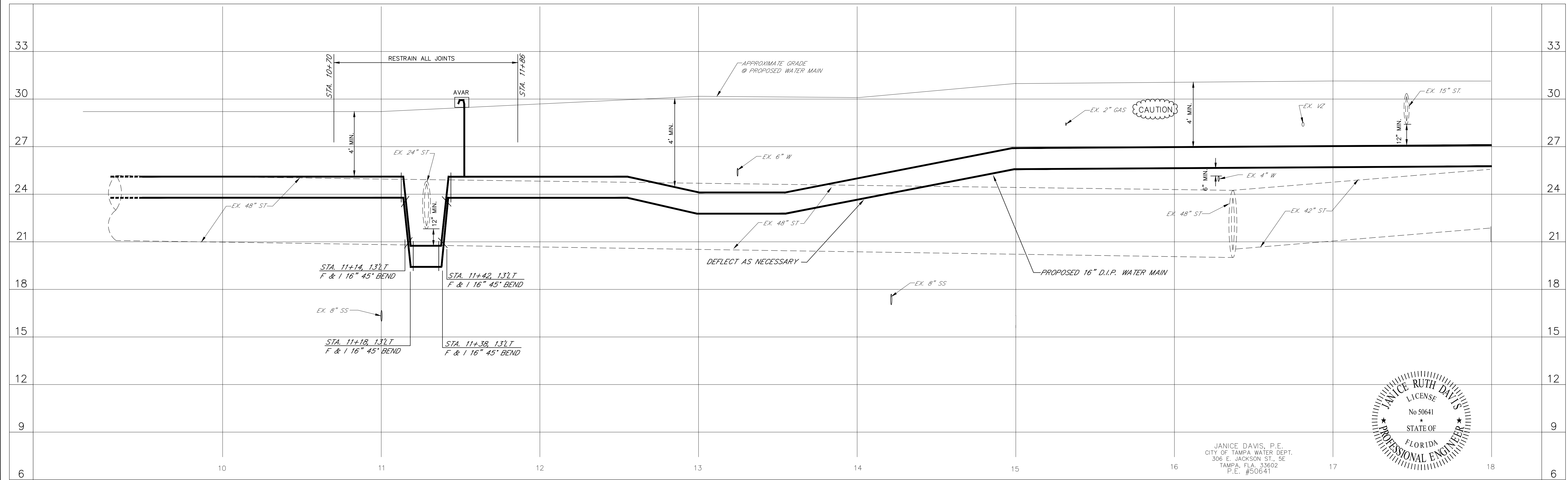
AVE.



Sec. 13-T28S-R18E



- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

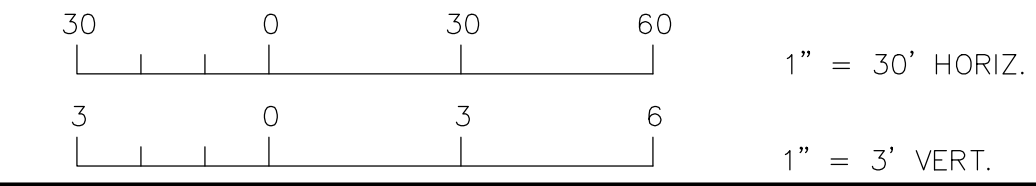


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., SE
 TAMPA, FLA. 33602
 P.E. #50641



WATER DEPARTMENT
 16" RAW WATER MAIN

109TH AVE. - from
 Sta. 10+00 to Sta. 18+00



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| Atlas Page | B12-3 |
| No. Date Approved | REVISION Date |
| By | |

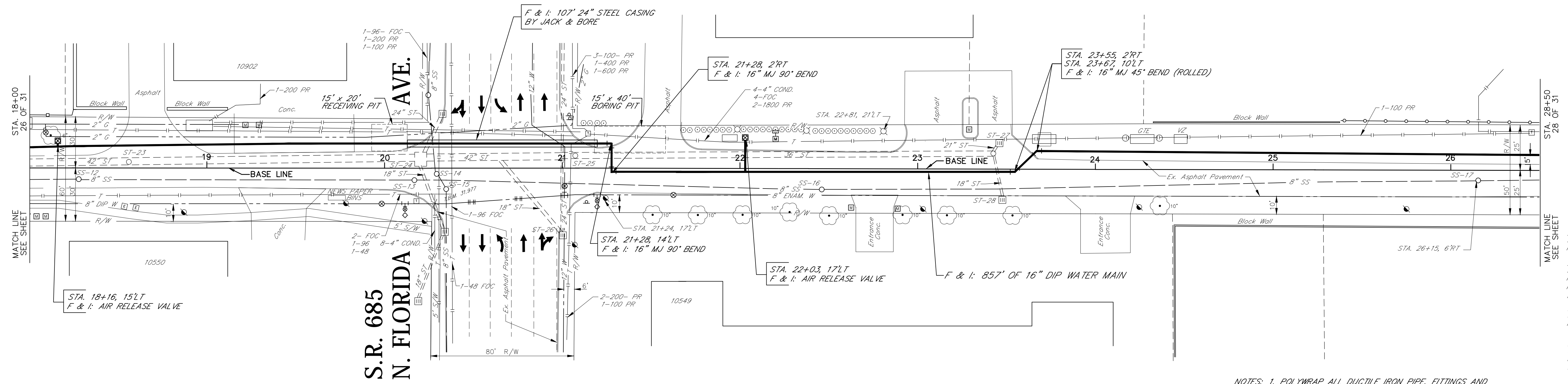
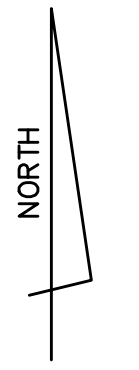
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| Des: JH | W.O. 7410 | File: BLUE SINK |
| Dwn: JDM | FILE NUMBER | |
| Ckd: JRD | SHEET 26 | OF 31 |

109TH AVE.

109TH AVE.

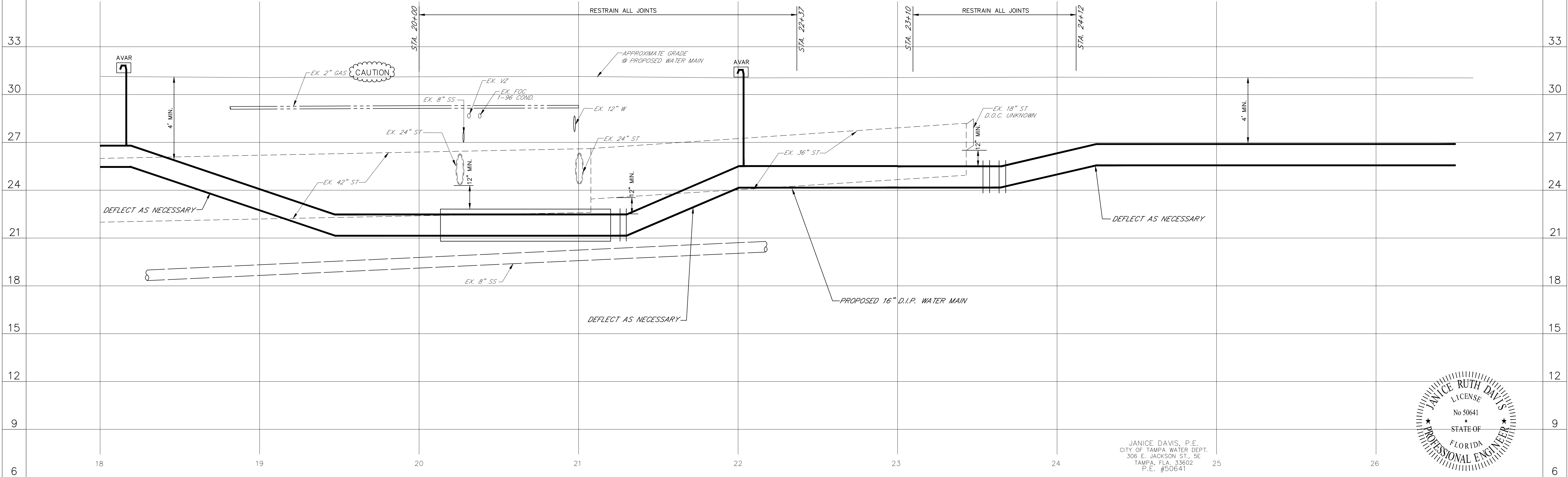
109TH AVE.

Sec. 13-T28S-R18E

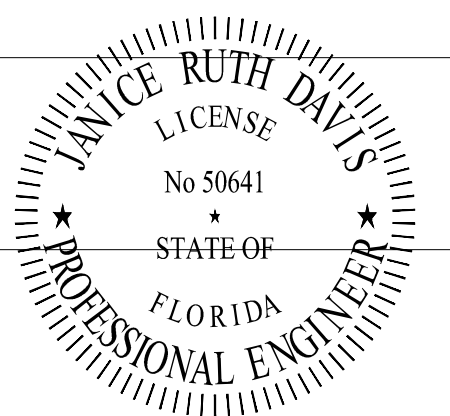


| | | |
|-------------|--------------------------|----------------------------|
| SAN. SEWER | SS-12 | INV. 18.00 (8\" SS) |
| SAN. SEWER | SS-13 | INV. 22.56 (8\" SS) |
| SAN. SEWER | SS-14 | INV. 26.00 (8\" SS) |
| SAN. SEWER | SS-15 | INV. 26.08 (8\" SS) |
| SAN. SEWER | SS-16 | INV. 20.05 (8\" SS) |
| STORM WATER | ST-23 | INV. 20.36 (42\" RCP) |
| STORM WATER | ST-24 | INV. 22.56 (42\" RCP) |
| STORM WATER | N. INV. 24.33 (24\" RCP) | INV. UNKNOWN (18\" RCP) |
| STORM WATER | ST-25 | INV. 23.62 (36\" RCP) |
| STORM WATER | ST-26 | W. INV. UNKNOWN (24\" RCP) |
| STORM WATER | ST-27 | S. INV. UNKNOWN (18\" RCP) |
| STORM WATER | ST-28 | INV. 25.06 (36\" RCP) |
| STORM WATER | ST-29 | UNKNOWN (18\" RCP) |

NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

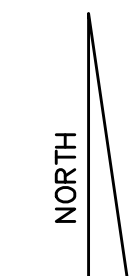


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., SE
 TAMPA, FLA. 33602
 P.E. #50641

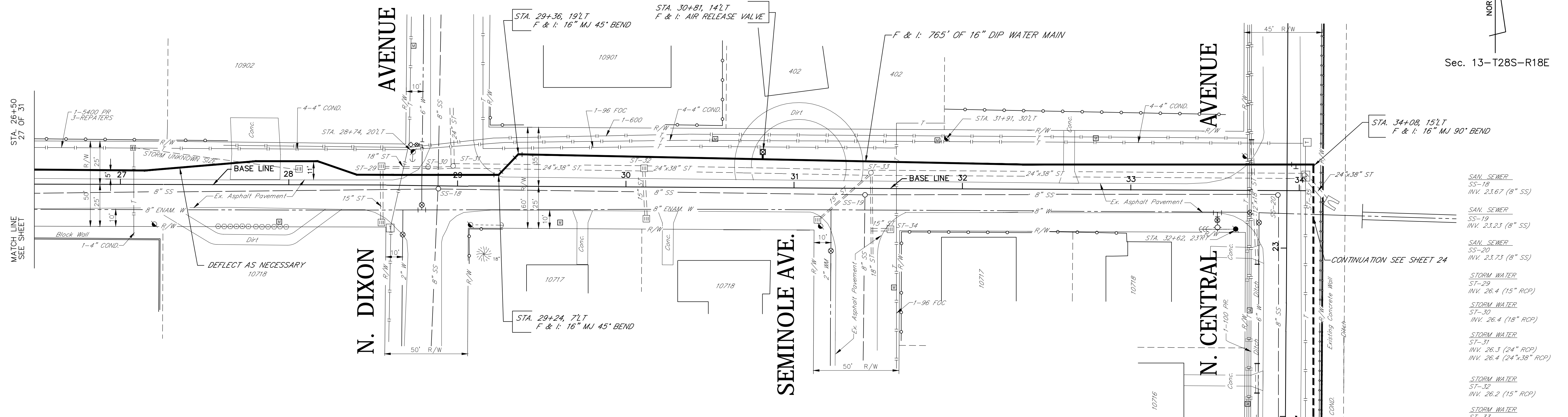


109TH

AVE.

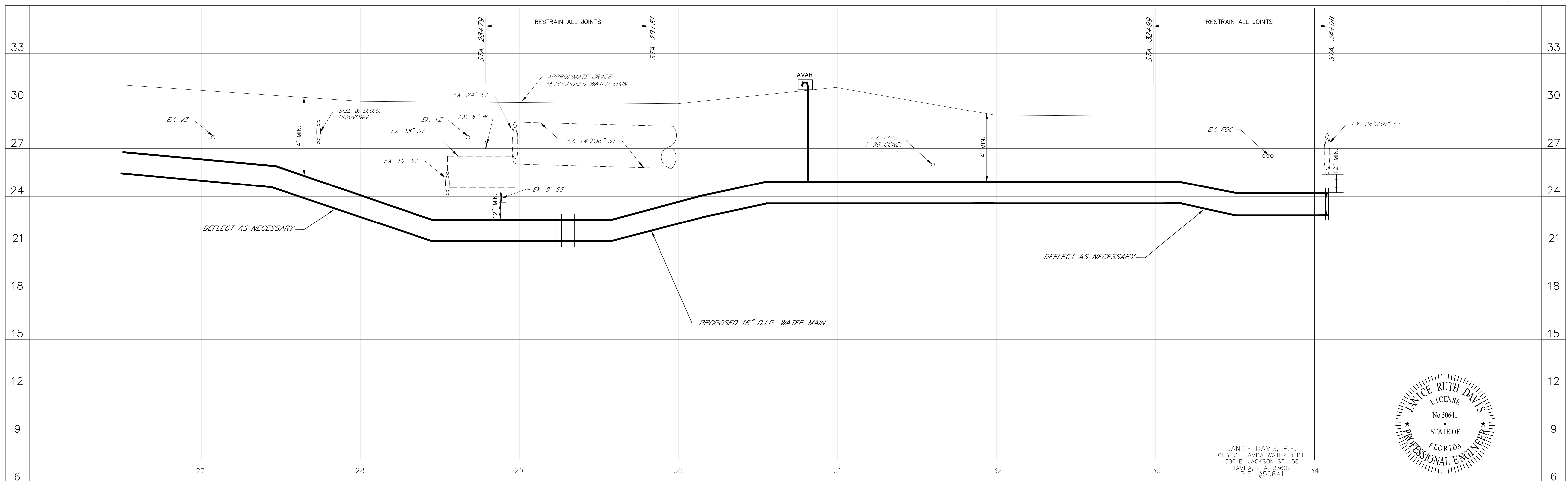


Sec. 13-T28S-R18E

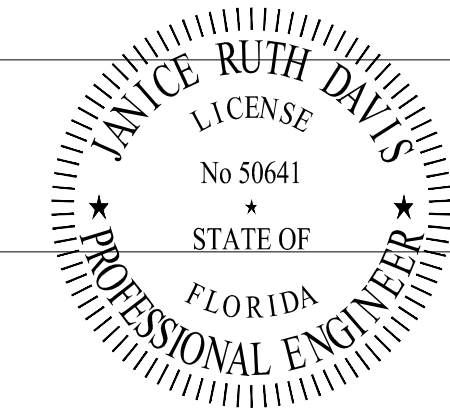


- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

| | | |
|-------------|-------|--------------------------|
| SAN. SEWER | SS-18 | INV. 23.67 (8" SS) |
| SAN. SEWER | SS-19 | INV. 23.23 (8" SS) |
| SAN. SEWER | SS-20 | INV. 23.73 (8" SS) |
| STORM WATER | ST-29 | INV. 26.4 (15" RCP) |
| STORM WATER | ST-30 | INV. 26.4 (18" RCP) |
| STORM WATER | ST-31 | INV. 26.3 (24" RCP) |
| STORM WATER | ST-32 | INV. 26.4 (24"x38" RCP) |
| STORM WATER | ST-33 | INV. 25.98 (24"x38" RCP) |
| STORM WATER | ST-34 | INV. 26.04 (15" RCP) |
| STORM WATER | ST-34 | INV. 26.4 (18" RCP) |
| STORM WATER | ST-34 | INV. 26.8 (15" RCP) |

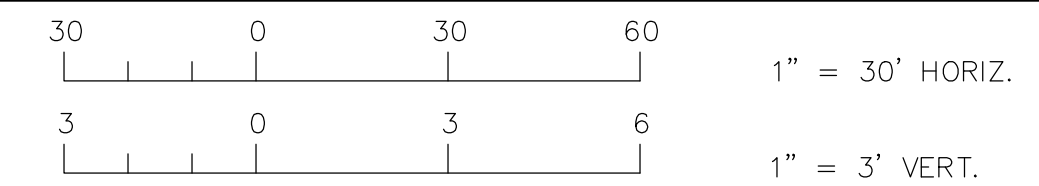


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #50641



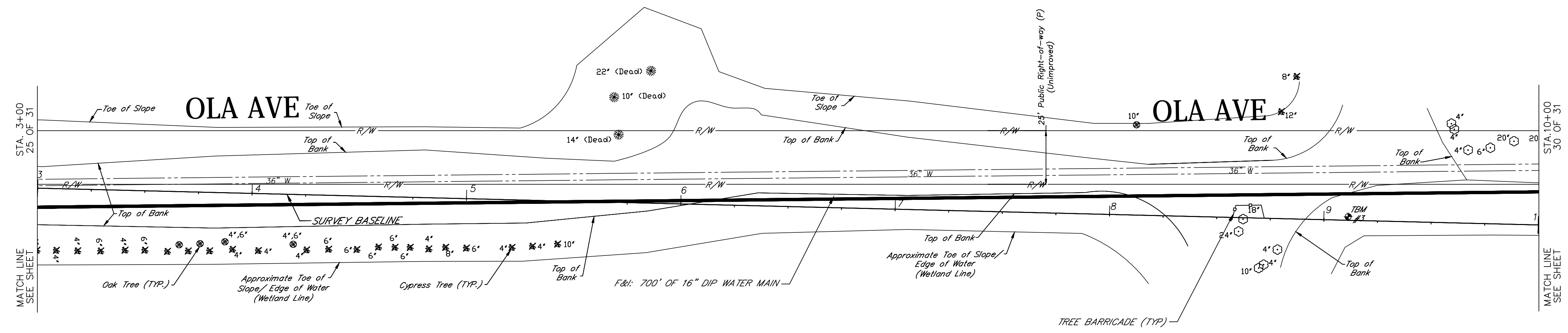
16" RAW WATER MAIN

109TH AVE—from
 Sta. 26+50 to N. Central Ave.



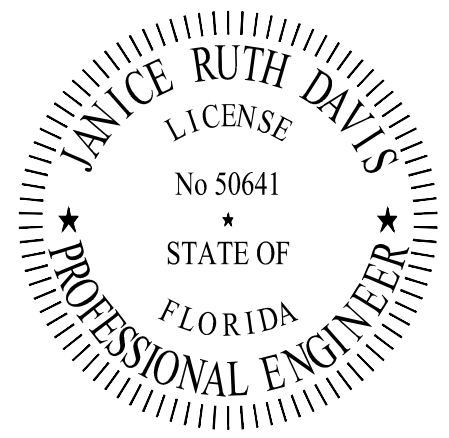
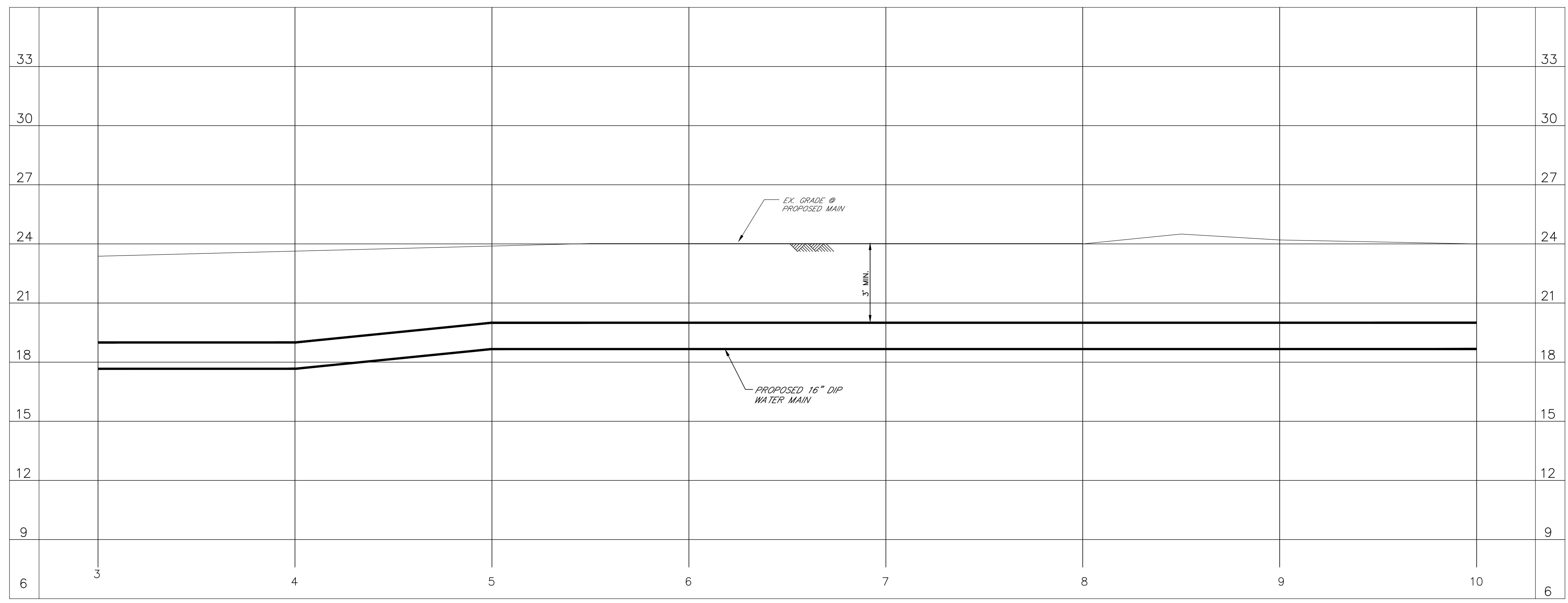
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| Atlas Page | B12-2 |
| No. Date Approved | REVISION By Date |

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|----------|-------------|-----------------|
| Des: JH | W.O. 7410 | File: BLUE SINK |
| Dwn: JDM | FILE NUMBER | |
| Ckd: JRD | SHEET 28 | OF 31 |



NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

NOTES:
 1. INSTALL SILT FENCE ALONG THE TOP OF BANK FROM STA. 3+00 TO STA. 5+50 AND INSTALL SILT FENCE ALONG TOE OF SLOPE AT A DISTANCE OF 10' AWAY FROM TOE OF SLOPE/EDGE OF WATER FROM STA. 5+00 TO STA. 10+00.

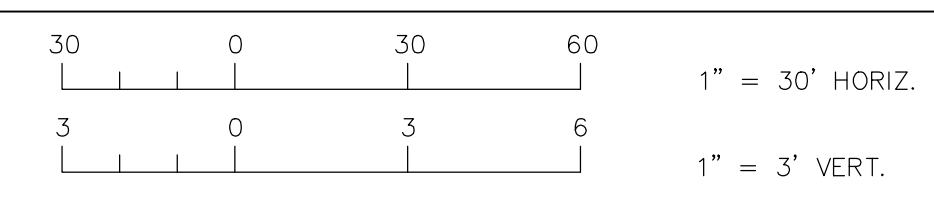


JANICE DAVIS, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #50641



16" RAW WATER MAIN

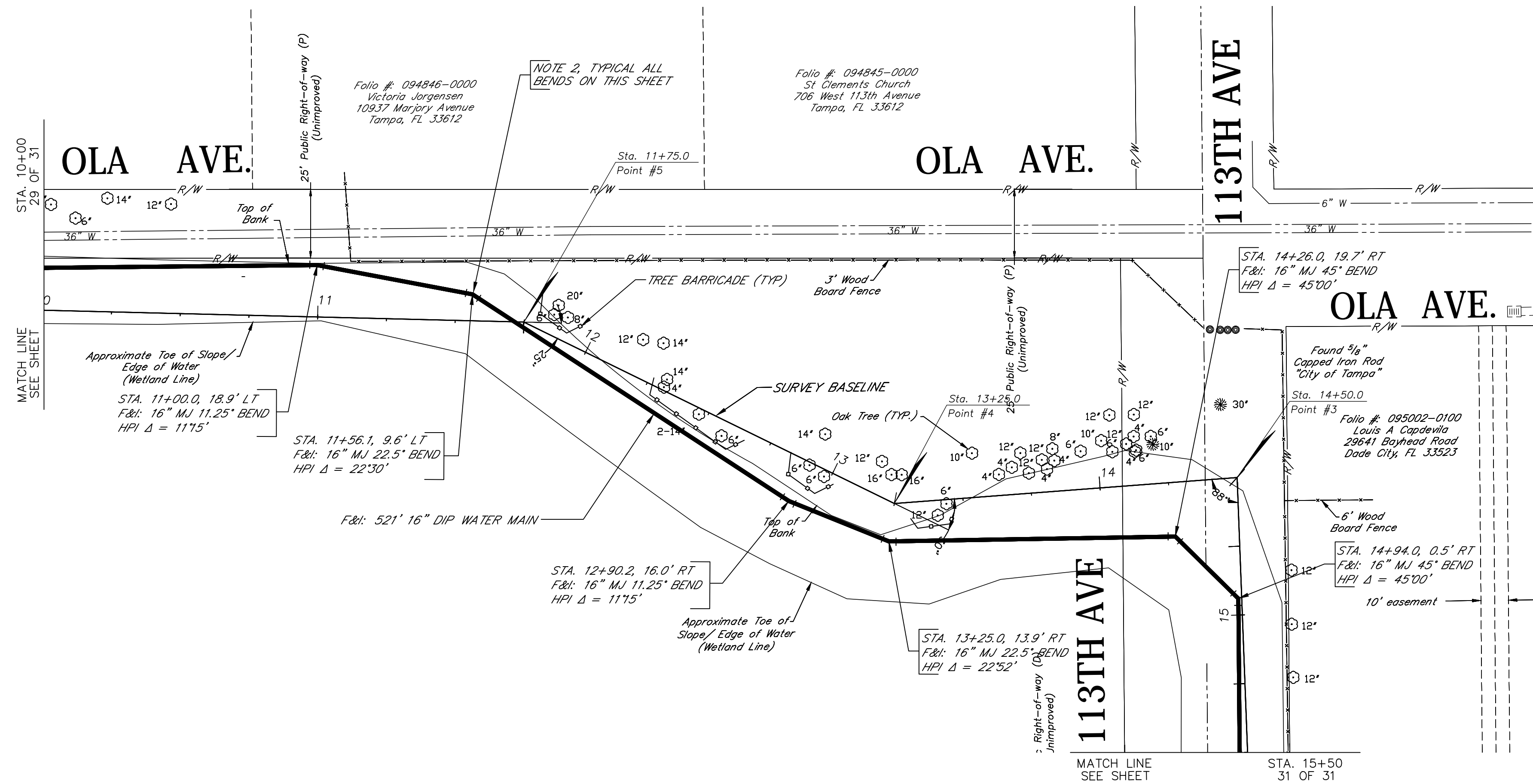
OLA AVE. - from
 Sta. 3+00. to Sta. 10+00



Atlas Page
 B12

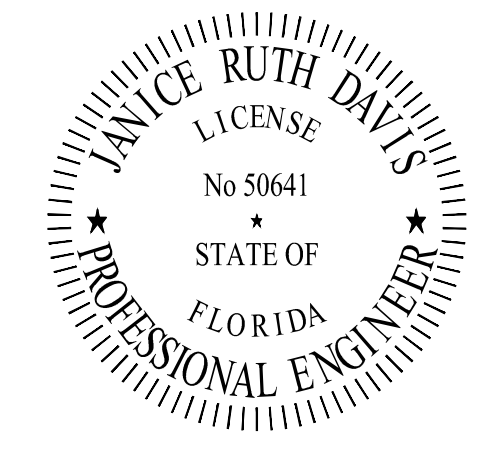
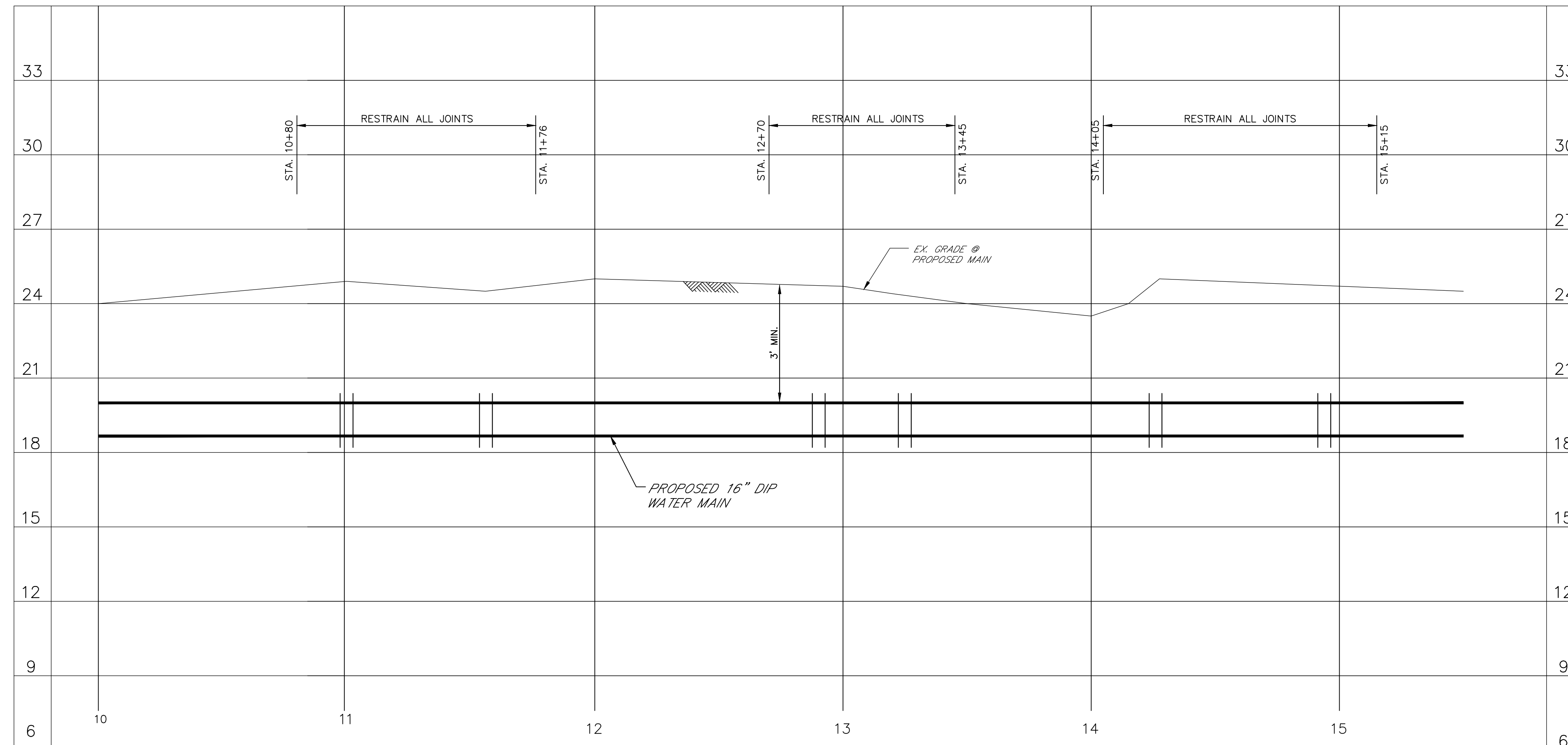
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| Des: | JH | W.O. | 7410 | FILE: | BLUE SINK |
| Dwn: | JDM | FILE NUMBER | | | |
| Ckd: | JRD | SHEET | 29 | OF | 31 |



- NOTES:
1. INSTALL SILT FENCE ALONG THE TOE OF SLOPE AT A DISTANCE OF 3' TO 5' AWAY FROM THE TOE OF SLOPE/EDGE OF WATER, AS SHOWN IN THE PLAN VIEW.
 2. PROVIDE A CONCRETE MARKER FOR EACH 16-INCH DUCTILE IRON BEND SHOWN ON THIS DRAWING. PROVIDE 2-FOOT BY 2-FOOT SQUARE 3000 PSI CONCRETE PAD, 6-INCHES THICK, WITH 6 GAUGE 4-INCH BY 4-INCH WELDED WIRE FABRIC AT MID-DEPTH. PROVIDE A 2-INCH BRASS IDENTIFICATION TAG FOR EACH MONUMENT THAT INCLUDES "16" BLUE SINK PIPELINE, XX.XX DEGREE BEND, STA XX+XX.0". WHERE THE TYPE OF BEND AND STATION IS PROVIDED. ATTACH TAG TO MONUMENT WITH EPOXY AND STAINLESS STEEL TAPCON-TYPE ANCHORS. LOCATE THE MONUMENT DIRECTLY OVER THE BEND AFTER BACKFILLING HAS OCCURRED.

- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.

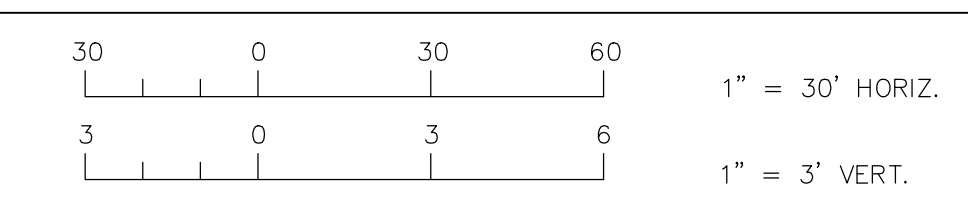


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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #50641



16" RAW WATER MAIN

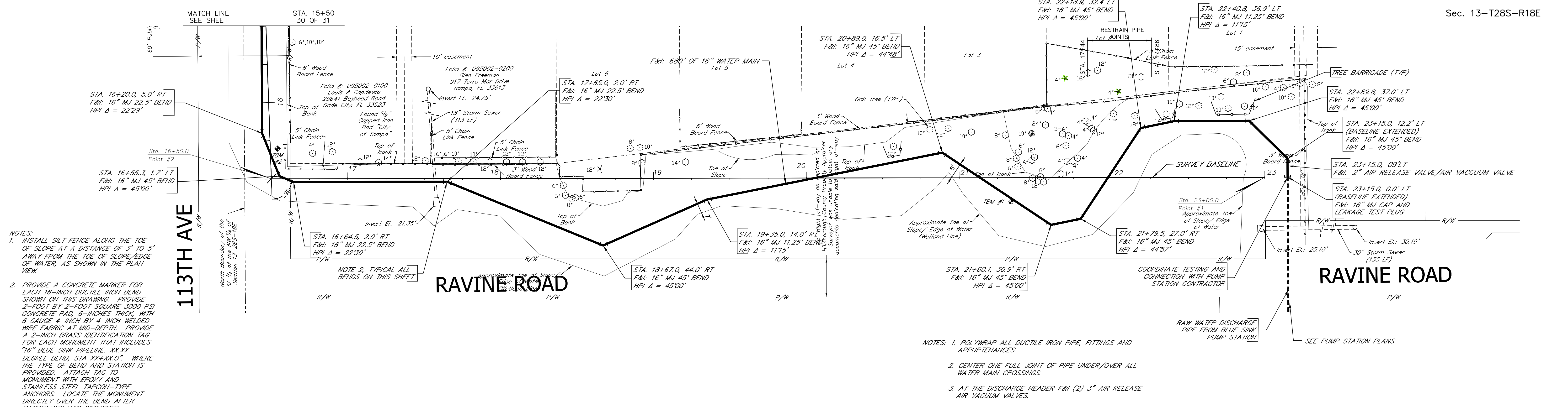
Ola Ave. - from
Sta. 10+00. to Sta. 15+50



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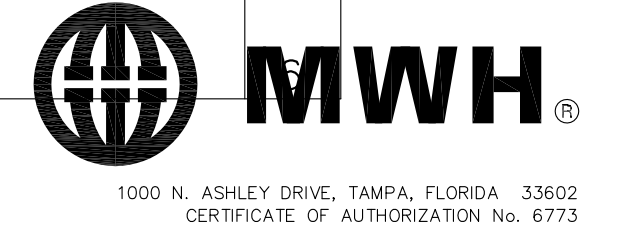
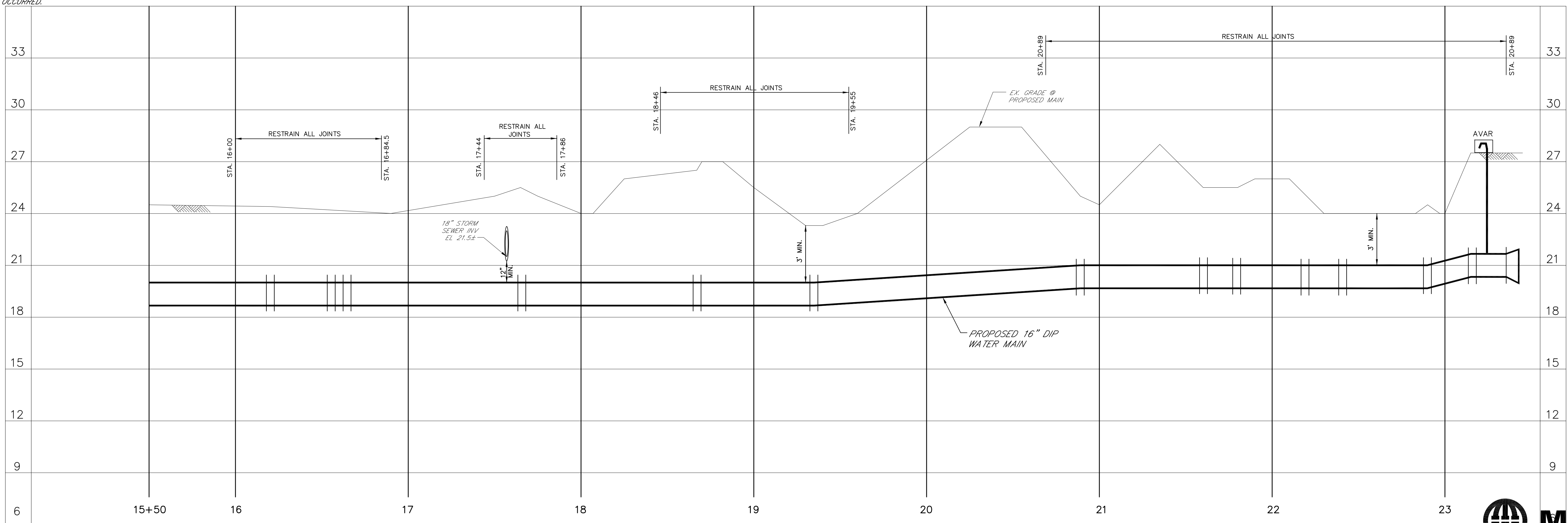
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| Dwn: | JDM | FILE NUMBER | | | |
| Ckd: | JRD | SHEET | 30 | OF | 31 |



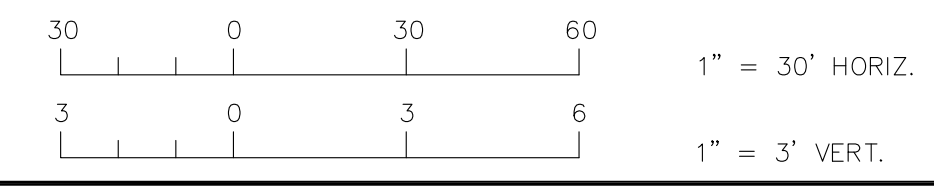
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- NOTES:
1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL WATER MAIN CROSSINGS.
 3. AT THE DISCHARGE HEADER F&I (2) 3" AIR RELEASE AIR VACUUM VALVES.



1000 N. ASHLEY DRIVE, TAMPA, FLORIDA 33602
 CERTIFICATE OF AUTHORIZATION No. 6773

GREELEY AND HANSEN
 1715 NORTH WESTSHORE BLVD., STE. 464
 TAMPA, FLORIDA 33607
 CERTIFICATE OF AUTHORIZATION No. 37



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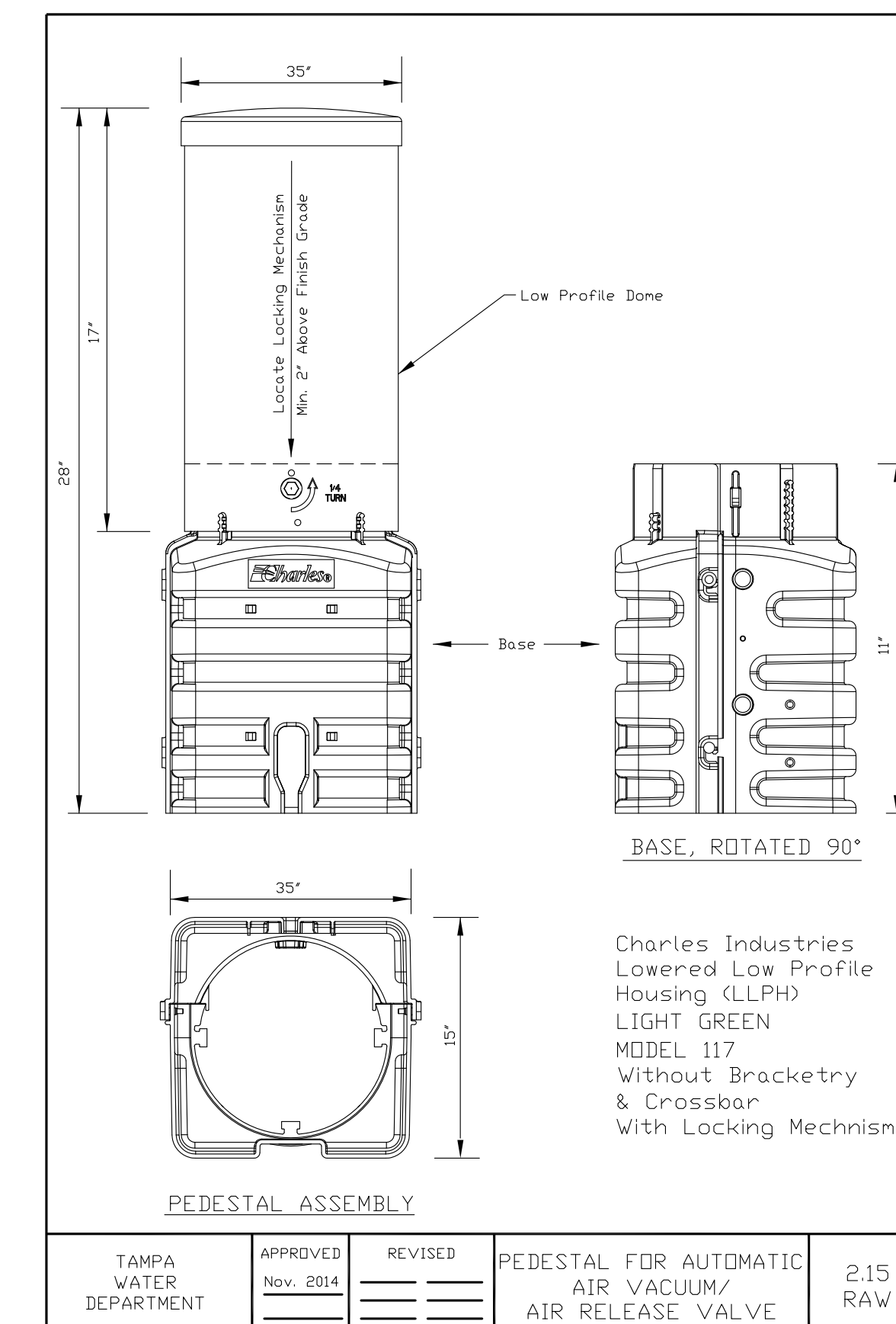
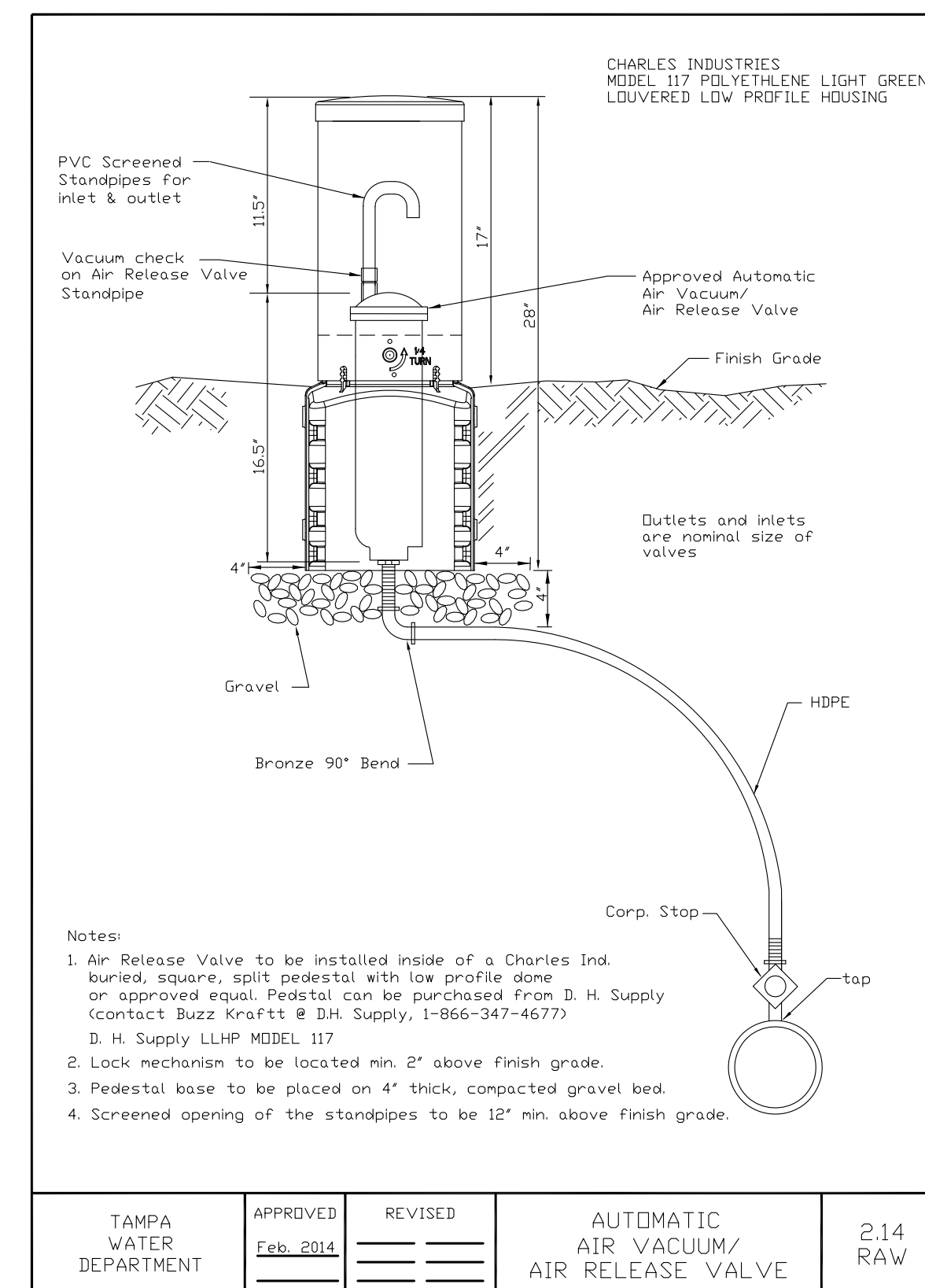
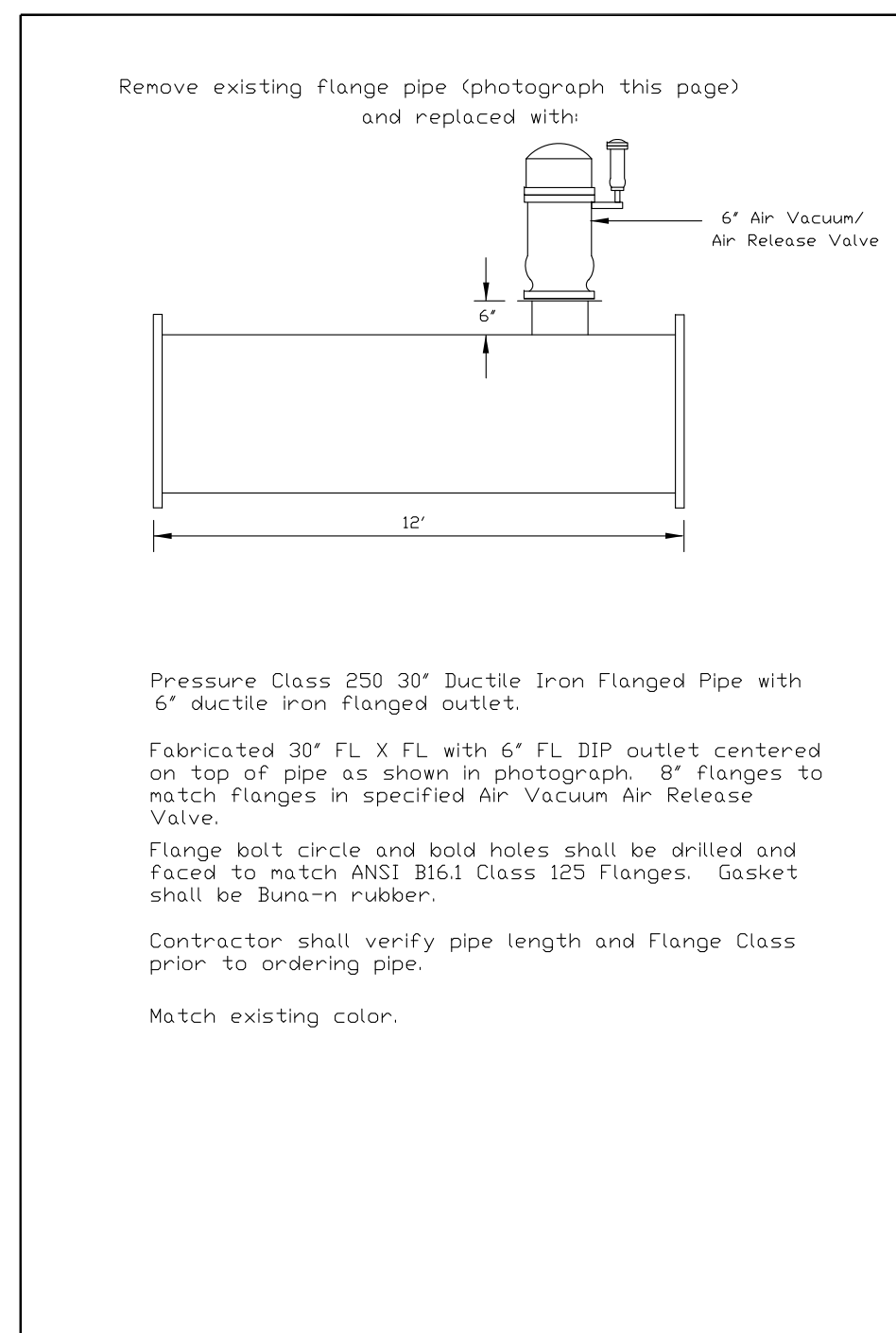
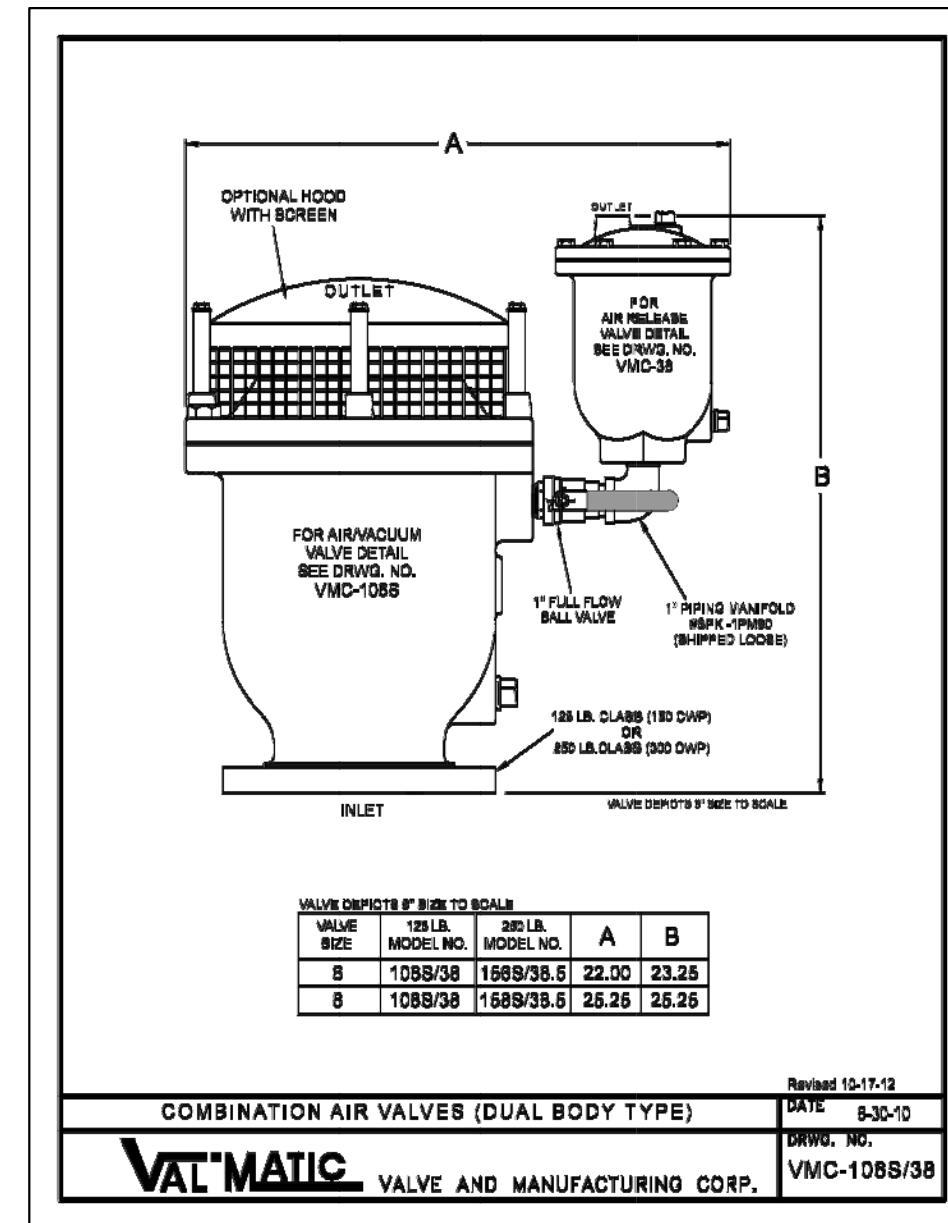


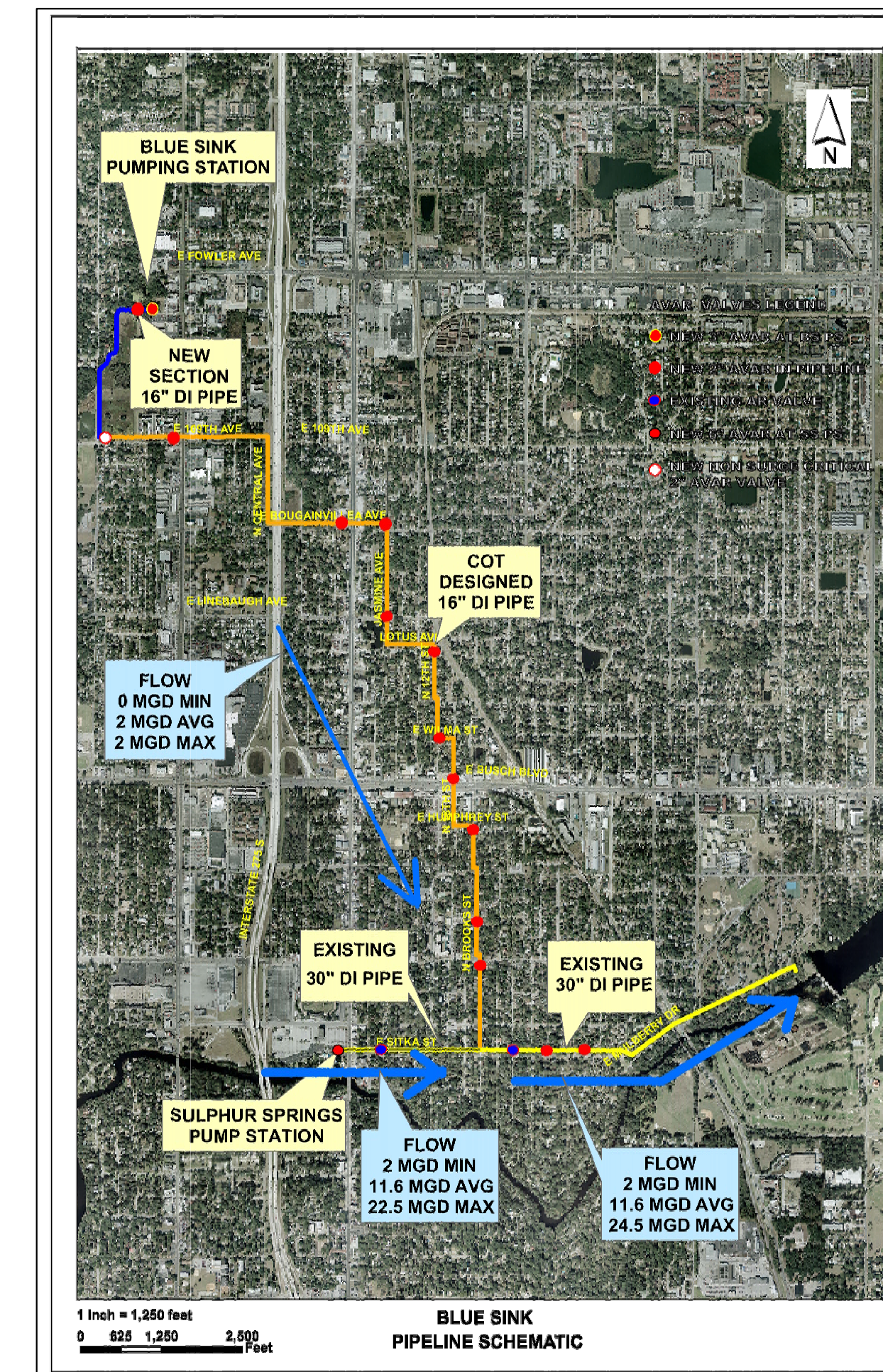
Table 1: Modeled AVAR Summary

| Model Junction / Elevation (ft) | AVAR Size (in) | Location |
|---------------------------------|----------------|---|
| (1) 118 / 33 ¹ | 3 | Blue Sink Pump Station Discharge Header TWO REQUIRED |
| 152 / 33 ¹ | 2 | Downstream of Blue Sink Pump Station at the upstream high point of the Wetland Crossing ADDED TO PIPELINE PLANS |
| 128 / 24.2 ¹ | 2 | 3,000 ft from Blue Sink Pump Station (Not required for surge mitigation) |
| 158 / 26.5 ¹ | 2 | 4,000 ft from Blue Sink Pump Station |
| 19 / 28.5 ¹ | 2 | E. Bougainville, East of Arden, 8,000 ft from Blue Sink Pump Station |
| 21 / 26.5 ¹ | 2 | E. Bougainville and Jasmine Ave, 8,850 ft from Blue Sink Pump Station |
| 23 / 23.5 ¹ | 2 | Jasmine Ave and Linebaugh Avenue, 10,000 ft from Blue Sink Pump Station |
| 28 / 31.5 ¹ | 2 | N. 12 th St., South of Lotus Street, 11,500 ft from Blue Sink Pump Station |
| 170 / 33.5 ¹ | 2 | Wilma St. and N 12 th St., 12,900 ft from Blue Sink Pump Station |
| 35 / 32.0 ¹ | 2 | 13 th St. and Bush Blvd., 13,900 ft from Blue Sink Pump Station |
| 38 / 34.0 ¹ | 2 | Humphrey and Brooks St., 14,850 ft from Blue Sink Pump Station |
| 42 / 32.5 ¹ | 2 | Brooks St. and Seward St., 16,000 ft from Blue Sink Pump Station |
| 174 / 28.5 ¹ | 2 | Brooks St., South of Waters Ave., 16,900 ft from Blue Sink Pump Station |
| (2) 22 / 18.1 ² | 6 | Sulphur Springs Pump Station Discharge Header 8" REQ. INSIDE PUMP STA |
| 48 / 17 ² | 2 | Sitka St and Alaska St. (existing Air Valve) |
| 50 / 20 ² | 2 | Sitka St and N Mulberry St. (existing Air Valve) |
| (3) 51 / 20 ² | 2 | Sitka St and Semmes St., 3,100 ft from Sulphur Springs Pump Station F&I |
| (4) 52 / 21 ² | 2 | Sitka St and Elmer St., 3,600 ft from Sulphur Springs Pump Station F&I |
| (5) 58 / 12 ² | 2 | 5,800 ft from Sulphur Springs Pump Station F&I |
| (6) 60 / 11 ² | 2 | 6,850 ft from Sulphur Springs Pump Station F&I |

¹ Blue Sink Pipeline; ² Sulphur Springs Pipeline; ³ Sulphur Springs Pipeline

NOTE:

- In Table 1: Modeled AVAR Summary above, six air vacuum air release valves are not shown in the project drawings.
- Valve 1 is to be placed on the 16" discharge header pipe at the highest point at the blue sink pump station.
- Valve 2 is to be placed on the 30" discharge header pipe at the highest point at the Sulphur Springs pump station on Nebraska Avenue. Details are provided on this sheet.
- Valves 3 through 6 are to be placed at various distances from the Sulphur Springs pump station along Sitka Avenue. These valves shall be tapped as shown in standard details 2.14 and 2.15 on this sheet. Pay Items for performing operations are detailed in the Contract Pay Items.
- Cutting pavement and restoration of pavement will be required. For estimating purposes, assume a trench width of 5' x 10' with 20' of 2" HDPE tubing.



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