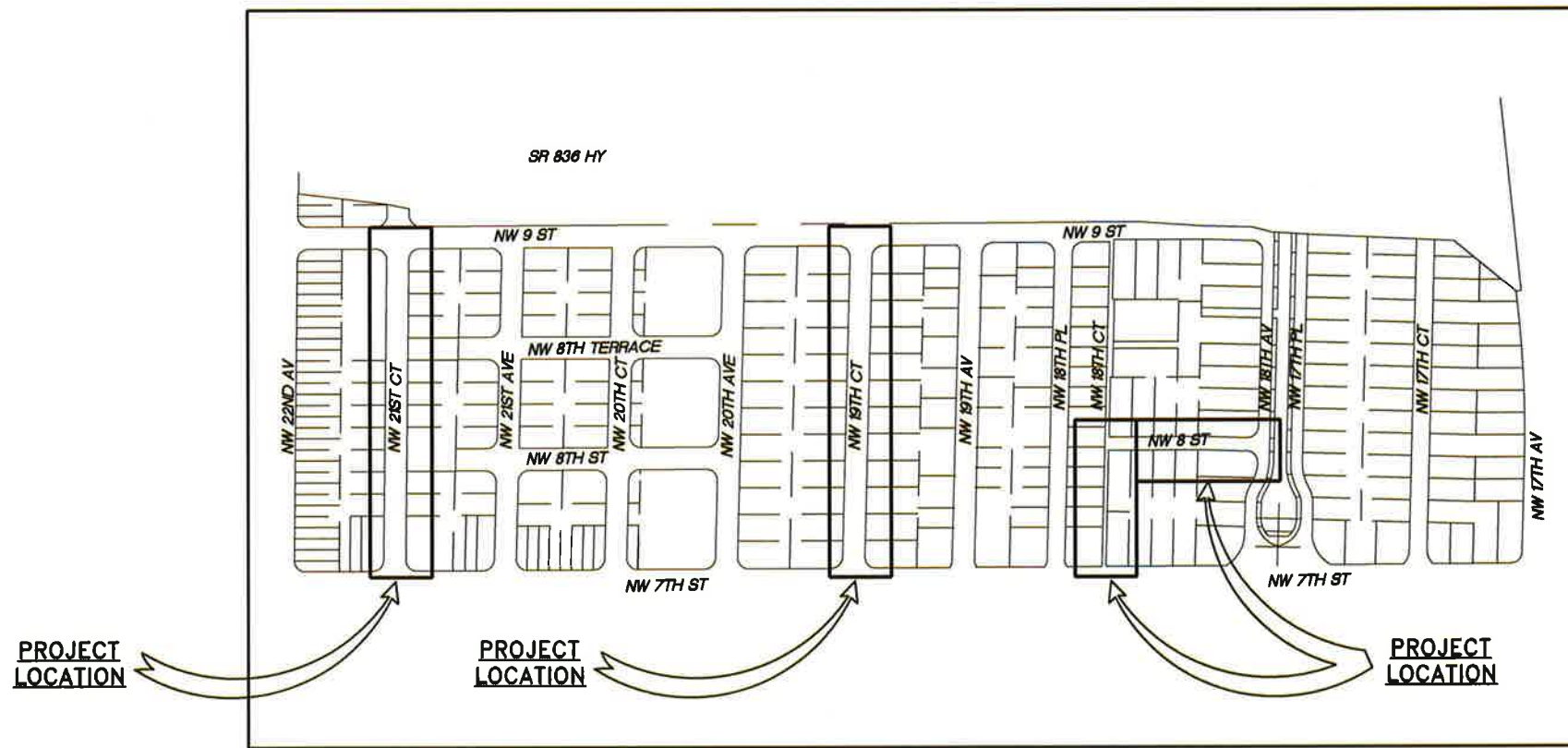


**MIAMI-DADE WATER AND SEWER DEPARTMENT**  
 UTILITY PIPE LINE ENGINEERING AND CONSTRUCTION DIVISION  
 3071 S.W. 38th AVENUE MIAMI, FLORIDA 33146-1520

**GROVE PARK WATER MAIN IMPROVEMENTS**  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT, NW 19 CT  
 FROM NW 7 ST. TO NW 9 ST.  
 ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 8 ST.,  
 FROM NW 18 CT. TO NW 18 AVE

PCTS No. 15041

ER No. W017110



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**LOCATION PLAN**  
 CITY OF MIAMI / MIAMI-DADE  
 A PORTION OF SEC. 34 - TWP. 53 S. - RGE. 41 E.  
 N.T.S.



Enrique Febles, P.E.  
 M.D.W.A.S.D. Project Manager  
 3575 S. Le Jeune Rd  
 Miami, FL  
 786-268-5374



100% SUBMITTAL			
APPROVED BY N/A	APPROVED BY N/A	EML	PROJECT No.: W017110
CHIEF ENGINEER	SECTION HEAD	DESIGN MGR.	PCTS No.: 15041
DRAWN: SP	DATE: 10/20/17	SHEET	P-01 OF 15
FILE NAME: 15041W01.DWG		DWG. No.	W-22850-B

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**GENERAL NOTES**

- THE FOLLOWING UTILITY COMPANIES SHOULD BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION IN AREA:
  - FPL
  - AT&T LONG DISTANCE
  - CITY OF MIAMI
  - FPL FIBERNET
  - MIAMI-DADE ENTERPRISE TECHNOLOGY SERVICES
  - FPL-TRANSMISSION
  - AT&T/DISTRIBUTION
  - MDC-PUBLIC WORKS DEPT.
  - COMCAST
  - TECO PEOPLES GAS SOUTH FLORIDA
  - MIAMI-DADE EXPRESSWAY AUTHORITY
- ALL ELEVATIONS REFER TO THE CITY OF MIAMI DATUM.
  - THE DIFFERENCE BETWEEN CITY OF MIAMI DATUM AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 IS 0.26 FEET.
  - BENCHMARK = NW 17TH AVENUE & NW 1ST STREET; ELEVATION = 10.796 (CITY OF MIAMI) 10.536 (NGVD)
  - BENCHMARK = NW 19TH AVENUE & N. FLAGLER TERRACE; ELEVATION = 14.518 (CITY OF MIAMI) 14.256 (NGVD)
- VALVES AT INTERSECTIONS, BRANCH MAINS OR STUB OUTS SHALL BE RESTRAINED TO THE ADJACENT FITTING UNLESS OTHERWISE NOTED.
- CUTTING AND PLUGGING OF EXISTING MAINS SHALL BE ACCOMPLISHED BY MECHANICALLY RESTRAINING THE PLUG OR CAP. SUFFICIENT LENGTH OF PIPE SHALL BE PROVIDED TO INSURE THE STABILITY OF THE INSTALLATION.
- STATIONING SHOWN IS ALONG THE BASELINE OF SURVEY. GRADING SHOWN IS ALONG THE PROPOSED PIPE ALIGNMENT.
- EXACT LOCATIONS OF SERVICES TO BE DETERMINED IN THE FIELD.
- FOR REQUIREMENTS FOR MECHANICAL THRUST RESTRAINT, SEE STANDARD DETAIL GS 2.0
- THERE MAY BE OTHER EXISTING UTILITIES IN THE AREA WHICH ARE NOT SHOWN ON THE PLANS, DUE TO FAILURE OF THESE UTILITIES TO RESPOND TO OUR REQUEST FOR INFORMATION.
- IF EVIDENCE OF POTENTIAL CONTAMINATION IS DETECTED DURING EXCAVATION, STOP EXCAVATION WORK AND NOTIFY WASH HAZARDOUS MATERIALS MANAGEMENT SECTION AT (786) 552-8400 AND THE CONSTRUCTION CONTRACTS MANAGEMENT DIVISION AT (786) 268-5161. EVIDENCE OF POTENTIAL CONTAMINATION MAY INCLUDE ANY OF THE FOLLOWING: 1. ODOR 2. SOLID WASTE DEBRIS 3. SHEEN ON THE GROUNDWATER 4. STAINED OR SATURATED SOIL (SOIL THAT CONTAINS PRODUCT THAT DRAINS WHEN IT IS HANDLED OR CREATES STREAKS ON EXCAVATION TOOLS) OR 5. FREE FLOATING PRODUCT ON THE GROUNDWATER (OIL, DIESEL, GASOLINE, ETC.). MATERIAL THAT HAS ODOR, IS STAINED OR IS SATURATED MUST BE SEGREGATED ON AN IMPERMEABLE SURFACE FOR APPROPRIATE FUTURE DISPOSAL.
- ALL PIPE AND FITTINGS INSTALLED UNDER THIS PROJECT MUST BE COLOR CODED WITH BLUE PAINT AS STATED IN THE FLORIDA ADMINISTRATIVE CODE, SUBPARAGRAPH 62-555.320(21)(B)3 AND AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. IF PAINT IS APPLIED DURING INSTALLATION OF THE PIPE, THE PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ON THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24-INCHES OR GREATER, PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- USE CAUTION WHEN EXCAVATING AROUND UTILITIES PER SPECIFICATION SECTION 6.00.3
- PAVEMENT RESTORATION TO BE DONE IN ACCORDANCE WITH CITY OF MIAMI PUBLIC WORKS DEPARTMENT, WASH PAVEMENT RESTORATION (TYPE I AND V) AND MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT REQUIREMENTS UNLESS OTHERWISE NOTED.
- THE ENGINEER-OF-RECORD IS IN RESPONSIBLE CHARGE FOR THE DESIGN PART OF THIS PROJECT ONLY. THE DEPARTMENT, THROUGH THE CONSTRUCTION CONTRACTS MANAGEMENT DIVISION, WILL ASSIGN A FLORIDA LICENSED PROFESSIONAL ENGINEER TO TAKE RESPONSIBLE CHARGE OF INSPECTING THE CONSTRUCTION OF THIS PROJECT AND TO DETERMINE, IN GENERAL, IF THE CONSTRUCTION PROCEEDS IN COMPLIANCE WITH THE CONSTRUCTION PERMITS AND TO SUBMIT COMPLETE RECORD DRAWINGS AND CERTIFICATION OF CONSTRUCTION COMPLETION TO THE PERMITTING AGENCIES, AND TO OBTAIN WRITTEN APPROVAL OR CLEARANCE BEFORE PLACING THE MAINS IN SERVICE.
- LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY OF THE FACILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS TO FIELD VERIFY THE ELEVATION, TYPE OF PIPE AND LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER/ENGINEER-OF-RECORD THROUGH THE ASSIGNED MDWASD CONSTRUCTION PROJECT MANAGER SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE SAID CONFLICT. CONTRACTOR TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA, INC. BY CALLING 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING.
- MILLING AND RESURFACING PAVEMENT RESTORATION WILL BE AS SHOWN ON PLANS.
- IN AREAS WHERE POLLUTED GROUND WATER WILL OR MAY BE DRAWN INTO THE DEWATERING SYSTEM AND THE MDWASD HAS GRANTED PERMISSION TO INSTALL THE SYSTEM COMPONENTS VIA THE "ALTERNATE METHOD OF CONSTRUCTION", I.E. IN THE WET, AND THE CONTRACTOR ELECTS TO PERFORM DEWATERING AS PART OF THE WORK, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS, SUBMIT AND OBTAIN ANY AND ALL REQUIRED DEWATERING/CONTAMINATION PERMIT APPROVALS (INCLUDING ANY ANCILLARY PERMITS THAT MAY BE REQUIRED, I.E. FROM R.E.R. WATER CONTROL OR POLLUTION CONTROL) PRIOR TO COMMENCING THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE MUNICIPALITY OR ANY OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRUSION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PERMIT (GCP) AND A NOTICE OF INTENT (NOI) TO USE SAID GENERIC PERMIT AS PROVIDED IN SUBSECTION 62-621.300(4), F.A.C. PURSUANT TO THE STATE'S FEDERALLY APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER REGULATORY PROGRAM (NPDES). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS AND OBTAIN ALL REQUIRED APPROVALS PRIOR TO COMMENCEMENT OF THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.

**RER-DEEM WATER-SEWER GENERAL NOTES**

- A horizontal distance of at least 6 feet, and preferably 10 feet (outside to outside), shall be maintained between gravity or pressure sewer pipes and water pipes. The minimum horizontal separation can be reduced to 3 feet for vacuum-type sewers or for gravity sewers where the top of the sewer pipe is at least 6 inches below the bottom of the water pipe. When the above specified horizontal distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met:
  - The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi.
  - The sewer is encased in a watertight carrier pipe or concrete.
  - The top of the sewer is at least 18 inches below the bottom of the water pipe.
- A vertical distance of at least 12 inches (outside to outside) shall be maintained between any water and sewer mains with sewer pipes preferably crossing under water mains. The minimum vertical separation can be reduced to 6 inches for vacuum-type sewers or for gravity sewers where the sewer pipe is below the water main. The crossing shall be arranged so that all water main joints are at least 6 feet from all joints in gravity and pressure sewer pipes. This distance can be reduced to 3 feet for vacuum-type sewers. When the above specified vertical distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met:
  - The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi.
  - The sewer is encased in a watertight carrier pipe or concrete.
- Air release valves shall be provided at high points of new force main sanitary sewers.
- Gravity sanitary sewers constructed within a public wellfield protection area shall be C-900 PVC or Ductile Iron Pipe. The maximum allowable exfiltration rate of gravity sanitary sewers constructed in a public wellfield protection area shall be:
  - Residential Land Uses. Fifty (50) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
  - Non-Residential Land Uses. Twenty (20) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
  - Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
- The maximum allowable exfiltration rate of gravity sanitary sewers constructed outside a public wellfield protection area shall be one hundred (100) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe. Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
- Force main sanitary sewers constructed within a public wellfield protection area shall be ductile iron, C-900 PVC, HDPE or reinforced concrete pressure sewer pipes.
- The maximum allowable exfiltration/leakage rate of force main sanitary sewers shall be:
  - Ductile Iron, C-900 PVC, HDPE and PVC Pipe. The allowable leakage rate specified in American Water Works Association Standard (AWWA) C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
  - Reinforced Concrete Pressure Pipe. Half (1/2) the allowable leakage rate specified in AWWA C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
  - Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
- The contractor shall verify nature, depth, and character of existing underground utilities prior to start of construction.
- In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench above an existing water or sewer pipe except where they cross.
- If any area of the work site is found to contain buried solid waste and/or ground or ground water contamination, the following shall apply:
  - All work in the area shall follow all applicable safety requirements (e.g., OSHA, etc.) and notification must be provided to the appropriate agencies.
  - Immediately notify the Environmental Monitoring and Restoration Division (EMRD). The EMRD can be contacted at (305) 372-6700.
  - If contaminated soils and/or buried solid waste material is excavated during construction, then they require proper handling and disposal in accordance with the local, state and federal regulations. Be advised that the landfill owner/operator is the final authority on disposal and may have requirements beyond those provided by herein. If disposal within a Miami-Dade County owned landfill (Class I landfill) is appropriate and selected, please contact the Miami-Dade County Department of Solid Waste Management at (305) 594-6666 for information.
  - The reuse of contaminated soils that are not returned to the original excavation requires prior approval of a Soil Management Plan from the Environmental Monitoring and Restoration Division. The EMRD can be contacted at (305) 372-6700.

**MIAMI-DADE WATER AND SEWER DEPARTMENT  
DESIGN AND CONSTRUCTION STANDARD DETAILS**

FOR	SEE DETAIL	SHEET
TYPICAL TIE-ROD DETAILS	GS 1.0	1 OF 1
WATER AND GRAVITY SEWER MAIN CROSSINGS	GS 1.5	1 OF 1
TAPPING SLEEVE AND VALVE INSTALLATION	GS 1.8	1 OF 1
TYPICAL TRENCH BACKFILL FOR D.I. WATER AND FORCE MAINS	GS 1.9	1 OF 1
TYPICAL FLUSHING VALVE OUTLET	WS 1.61	1 OF 1
SINGLE METER BOX INSTALLATION	WS 2.10	1 OF 3
TYPICAL 2" SERVICE INSTALLATION WITH A 2" METER	WS 2.16	1 OF 4
No. 3 C.I. VALVE BOX AND LID	WS 3.11	1 & 2 OF 2
PAVEMENT RESTORATION TYPE I	A 1.0	1 OF 1
PAVEMENT RESTORATION TYPE V	A 1.1	1 OF 1
POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE	A 9.0	1 OF 1
ABBREVIATIONS FOR DEPARTMENT'S PROJECTS	A 10.0	1, 2 & 3 OF 3

**NOTES:**

- THE ABOVE LIST SHALL NOT BE CONSIDERED AS NECESSARILY COMPLETE, NOR SHALL THE STANDARD DETAILS WHICH MAY BE INCLUDED ELSEWHERE HEREIN BE CONSIDERED AS FORMING A COMPLETE LISTING OF ALL STANDARD DETAILS WHICH MAY APPLY TO THIS PROJECT.
- ALL STANDARD DETAILS ARE INCORPORATED IN THE ABOVE LIST BY REFERENCE AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE MDWASD STANDARD DETAILS.

**LEGEND**

- STD. Standard
- W.M.--- Exist. Water Main
- S.S.--- Exist. Storm Sewer
- San.--- Exist. Sanitary Sewer
- F.M.--- Exist. Force Main
- G.--- Exist. Gas
- C.--- Center line
- B.--- Base line
- C&B.--- Center line and Base line
- M.--- Monument line
- S.--- Section line
- R.W.--- Right of way line
- P.--- Property line
- TEL.--- Exist. Telephone
- U/S.--- Exist. Electric underground
- CATV.--- Exist. Cable underground
- TRAF.--- Exist. Traffic loop
- REQ'D. Required
- O/S. Offset
- D.I. Ductile Iron
- REST. J. Restrained Joint
- Exist. Guy Wire
- Exist. Street Light Pole
- Exist. Utility Conc. Pole
- Exist. Utility Pole
- Exist. Flood Light
- Exist. Traffic Light Pole
- Exist. Pedestrian Crossing Light
- Exist. Electric Box
- Exist. Street Light Box
- Exist. Telephone Box
- Exist. Traffic Signal Box
- Exist. Cable TV Box
- Exist. C.B.
- Exist. Electric MH
- Exist. Storm MH
- Exist. Sanitary MH
- Exist. Telephone MH
- Exist. Water MH
- Exist. Well
- Exist. Sprinkler
- Exist. Fire Hydrant
- Exist. Valve
- Core Boring
- Exist. Sign
- Exist. Single Water Meter
- Prop. Single Water Meter
- Prop. Dual Water Meter
- Type M Restoration
- Type V Restoration
- Prop. Water Main
- Prop. Tapping Sleeve and Valve
- Prop. Reducer
- Prop. Cross
- Prop. Gate Valve
- Prop. Cap/Plug
- Prop. Tee
- Prop. 90° Bend
- Prop. 45° Bend
- Prop. Cap and Flushing Valve
- Prop. Solid Sleeve
- Prop. Fire Hydrant/ Fire Hydrant

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3071 SW 38TH AVENUE  
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www.miamidade.gov/water

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**GROVE PARK WATER MAIN IMPROVEMENTS  
FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT, NW 19 CT  
FROM NW 7 ST. TO NW 9 ST.  
ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 8 ST.,  
FROM NW 18 CT. TO NW 16 AVE  
PCTS NO. 15041 ER NO. W017110**

**GENERAL NOTES WATER**

**REVISIONS**

No.	DESCRIPTION	DATE	BY

**APPROVALS**

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DESIGNED: SM DRAWN: SP  
CHIEF ENGINEER:

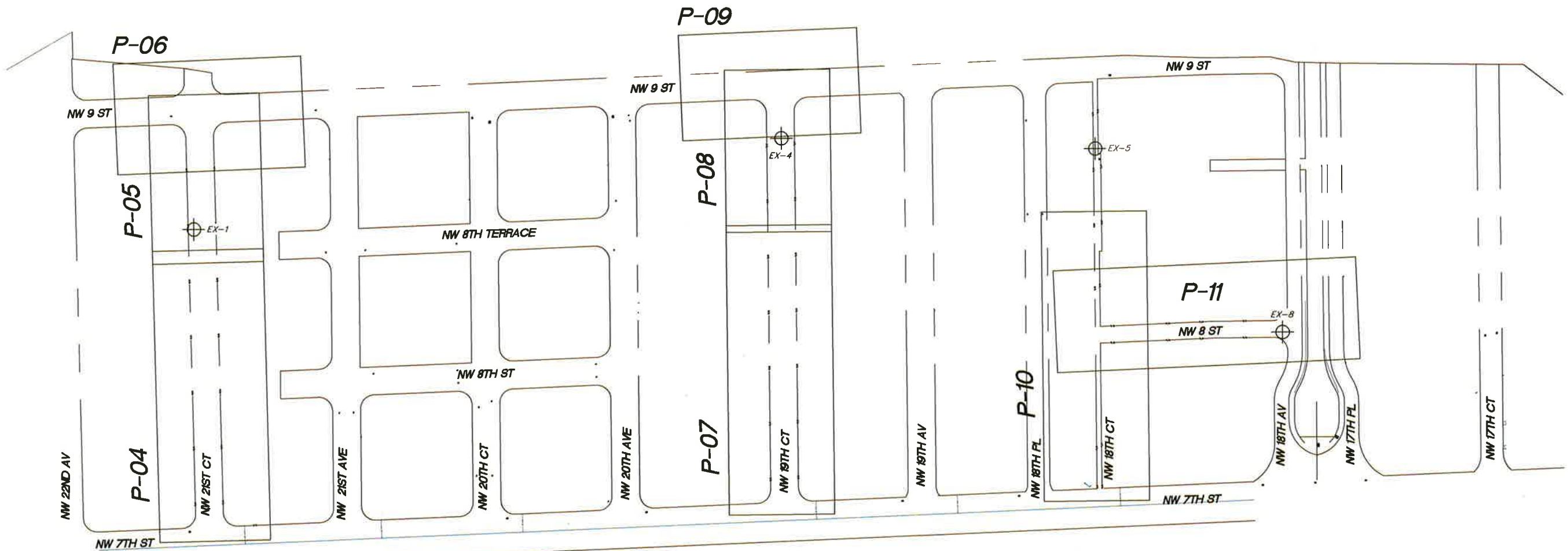
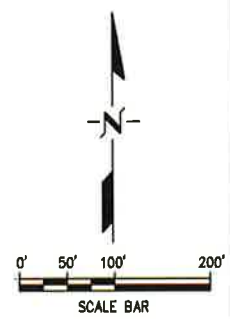
**811**  
Know what's below  
Call before you dig

**MARION MEDINA**  
LICENSED PROFESSIONAL ENGINEER  
No. 777052  
MARIAN MEDINA, P.E.  
CIVIL ENGINEER  
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DATE: 10/20/17 SCALE: N.T.S.  
SHEET P-02 OF 15  
DWG. No. W-22851-B

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**KEY PLAN**  
 GROVE PARK WATER MAIN IMPROVEMENTS  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT, NW 19 CT  
 FROM NW 7 ST. TO NW 9 ST.  
 ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 8 ST.,  
 FROM NW 18 CT. TO NW 16 AVE  
 PCTS No. 15041 ER No. W017110

**REVISIONS**

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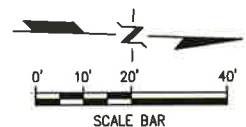
**APPROVALS**

PROJECT MGR: MM CHECKED: DC  
 DESIGNED: SM DRAWN: SP  
 CHIEF ENGINEER:  
 SECTION HEAD:

**PROFESSIONAL ENGINEER**  
 MARLON J. MEDINA  
 LICENSE No. 77082  
 MARLON MEDINA, P.E.  
 CIVIL ENGINEER  
 State of Florida - License No. 77082  
 901 Ponce de Leon Blvd 5-200  
 Coral Gables, FL 33134  
 305-445-2900  
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 SHEET P-03 OF 15  
 DWG. No. W-22852-B

**LEGEND**  
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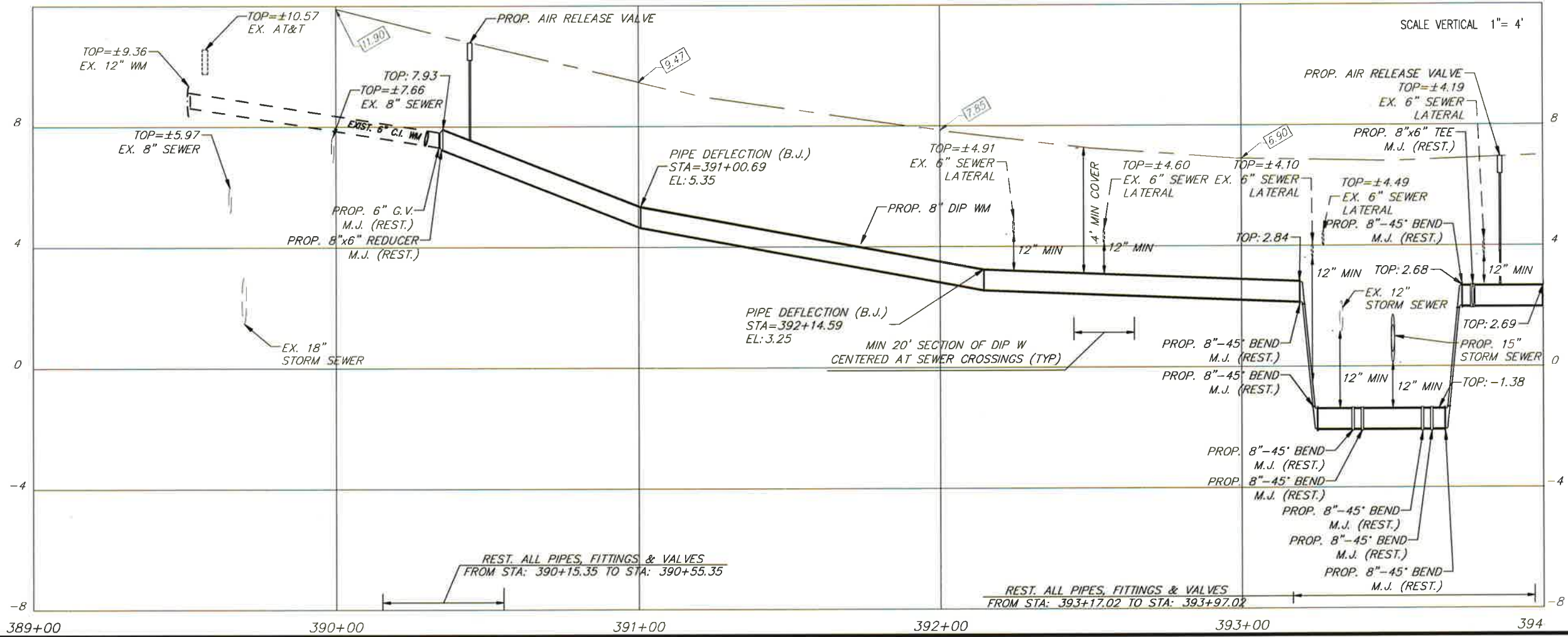
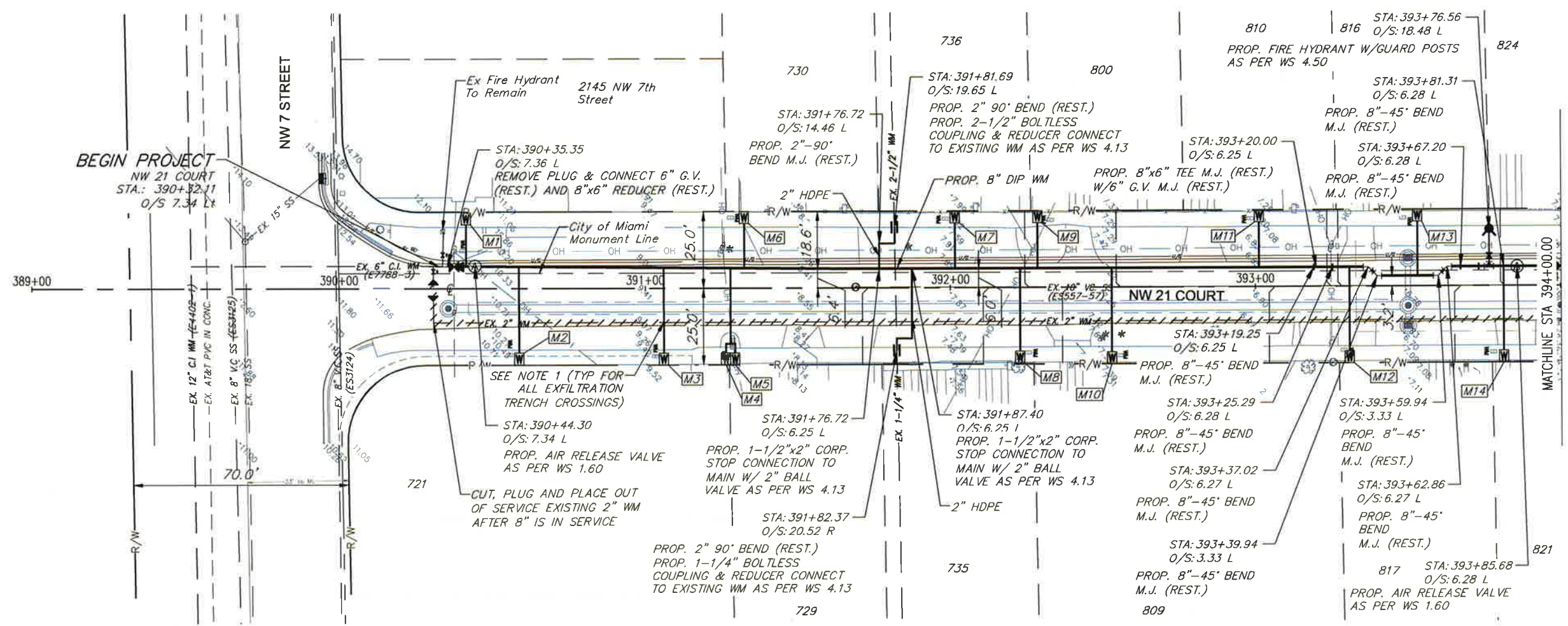
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FOR CONTINUATION SEE SHEET P-05

**NOTES:**

1. NEW WATER SERVICE CROSSING EXFILTRATION TRENCH SHALL BE INSTALLED INSIDE A 4" DIP SLEEVE, MINIMUM 10 FT LENGTH AND CENTERED ON THE TRENCH PER FDOT INDEX 285.
2. CONTRACTOR TO VERIFY DIAMETER AND ELEVATION OF PIPES PRIOR TO COMMENCEMENT OF WORK
3. CONTRACTOR SHALL COORDINATE WITH DEPARTMENT PERSONNEL TO VERIFY EXISTING 2-1/2" AND 1-1/4" MAINS AT STATION 391+82 ARE ACTIVE AND IN SERVICE. IF NOT IN SERVICE, DO NOT CONNECT TO NEW WATER MAIN. DEPARTMENT SHALL MAKE FINAL DECISION.



**PLAN & PROFILE**  
 GROVE PARK WATER MAIN IMPROVEMENTS  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT., NW 19 CT.  
 FROM NW 7 ST. TO NW 9 ST.,  
 ALONG NW 18 CT., FROM NW 7 ST. TO NW 8 ST., AND ALONG NW 8 ST.,  
 FROM NW 7 ST. TO NW 8 ST., AND ALONG NW 18 AVE  
 FROM NW 18 CT. TO NW 18 AVE  
 PCTS No. 15041 ER No. W017110

**REVISIONS**

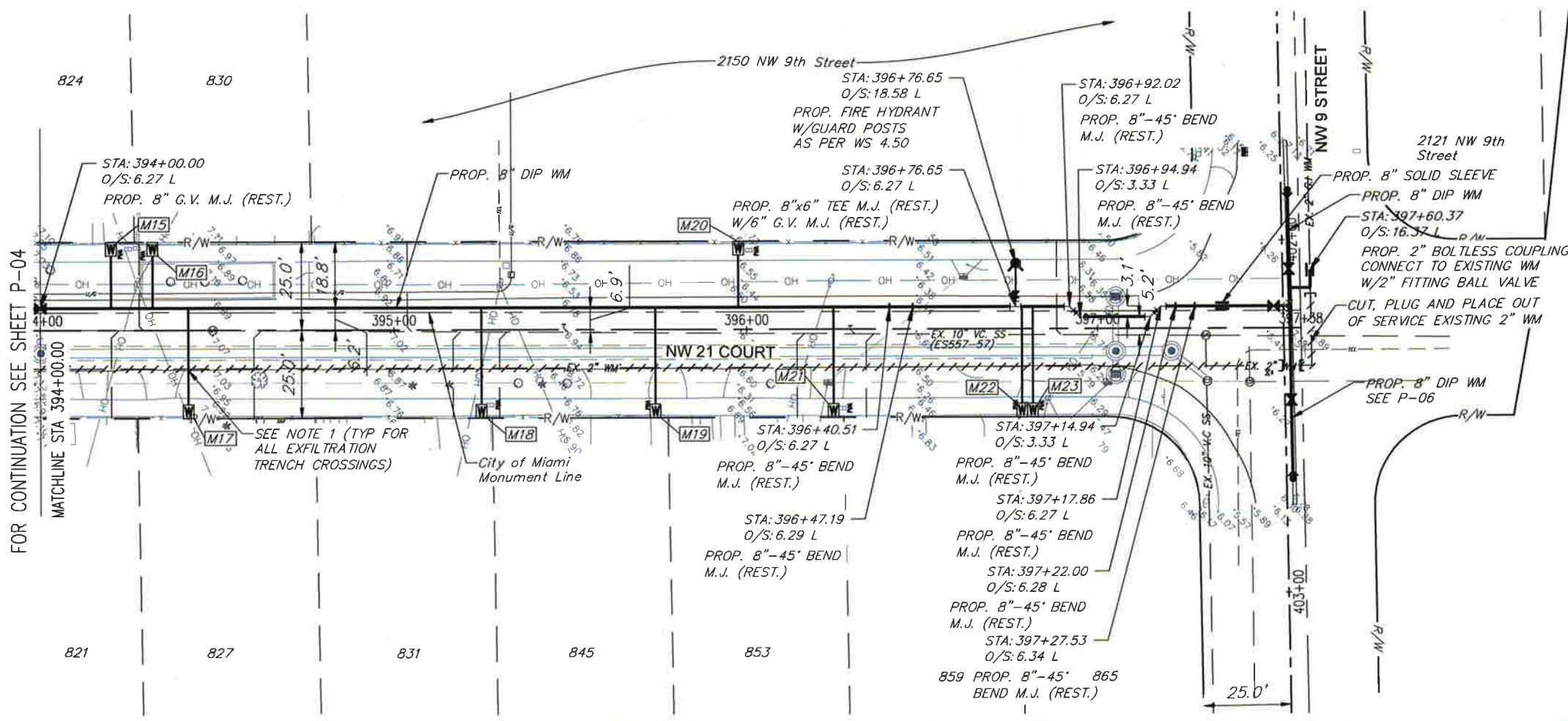
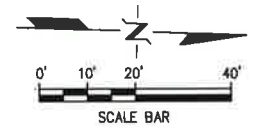
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**APPROVALS**

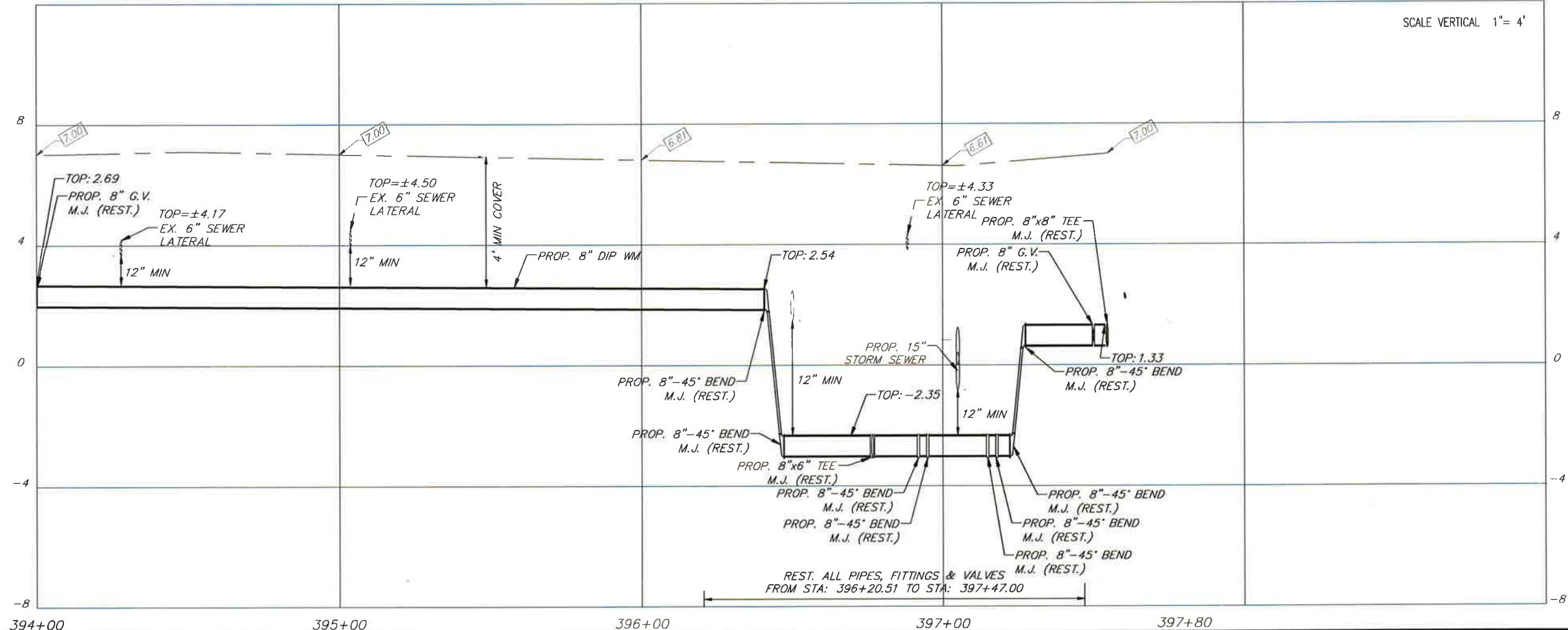
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DESIGNED: SM	DRAWN: SP
CHIEF ENGINEER:	
SECTION HEAD:	



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- NOTES:**
1. NEW WATER SERVICE CROSSING EXFILTRATION TRENCH SHALL BE INSTALLED INSIDE A 4" DIP SLEEVE, MINIMUM 10 FT LENGTH AND CENTERED ON THE TRENCH PER FDOT INDEX 285.
  2. CONTRACTOR TO VERIFY DIAMETER AND ELEVATION OF PIPES PRIOR TO COMMENCEMENT OF WORK



**GROVE PARK WATER MAIN IMPROVEMENTS**  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT, NW 19 CT FROM NW 7 ST. TO NW 9 ST., AND ALONG NW 8 ST., ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 18 AVE FROM NW 18 CT. TO NW 19 AVE  
 PCTS No. 15041 ER No. W017110  
**PLAN & PROFILE**

**REVISIONS**

No.	DESCRIPTION	DATE	BY

**APPROVALS**

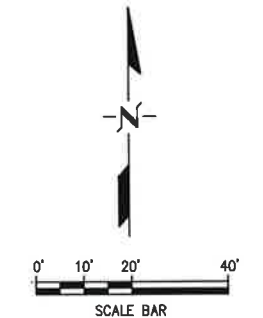
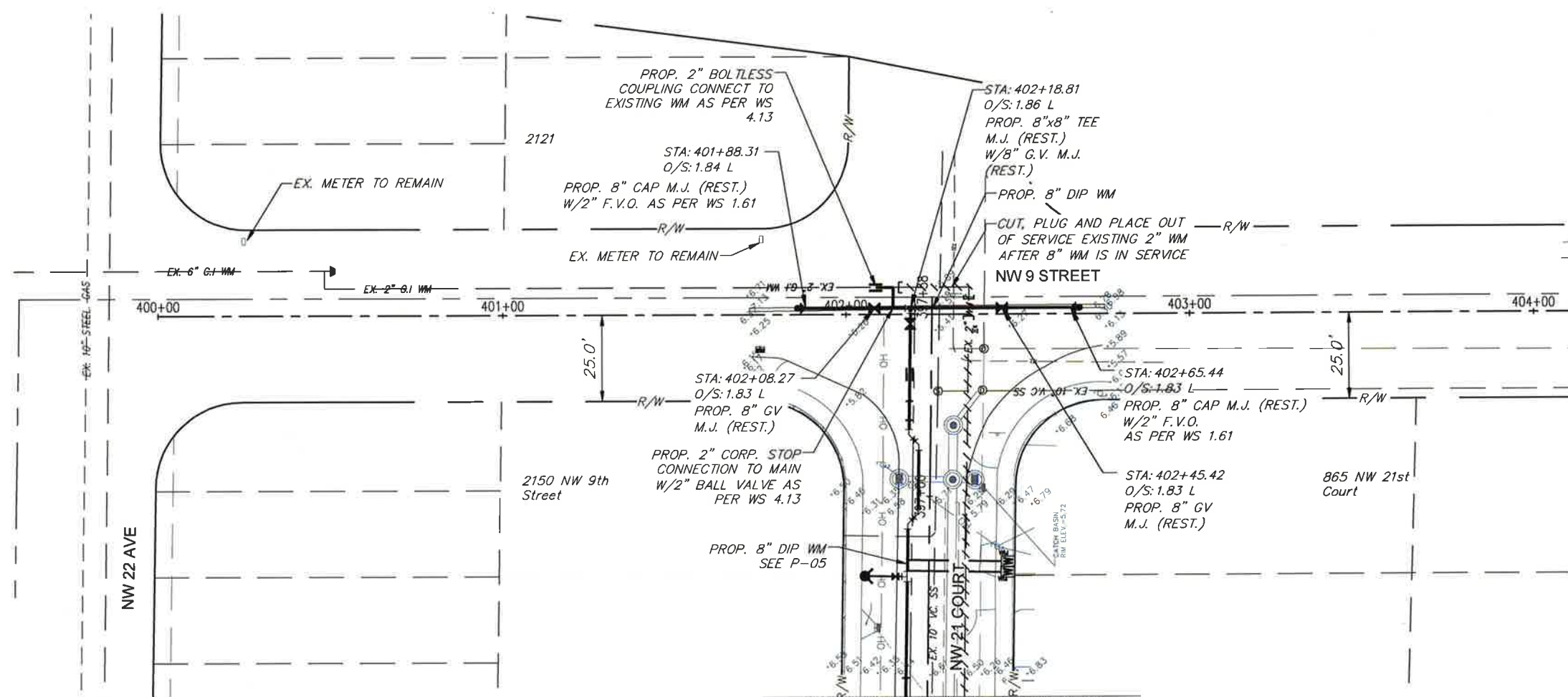
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 DESIGNED: SM DRAWN: SP  
 CHIEF ENGINEER:  
 SECTION HEAD:  
 DESIGN MGR: ELM

**MARLON J. MEDINA**  
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 Fax 305-445-3344  
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 SHEET 15 OF 15  
 DWG. No. W-22854-B

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- NOTES:
1. NEW WATER SERVICE CROSSING EXFILTRATION TRENCH SHALL BE INSTALLED INSIDE A 4\"/>

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 Coral Gables, Florida, 33134  
 C of Authorization #00027013  
 Tel. 305-445-2900  
 Fax. 305-445-3344  
 www.stantec.com

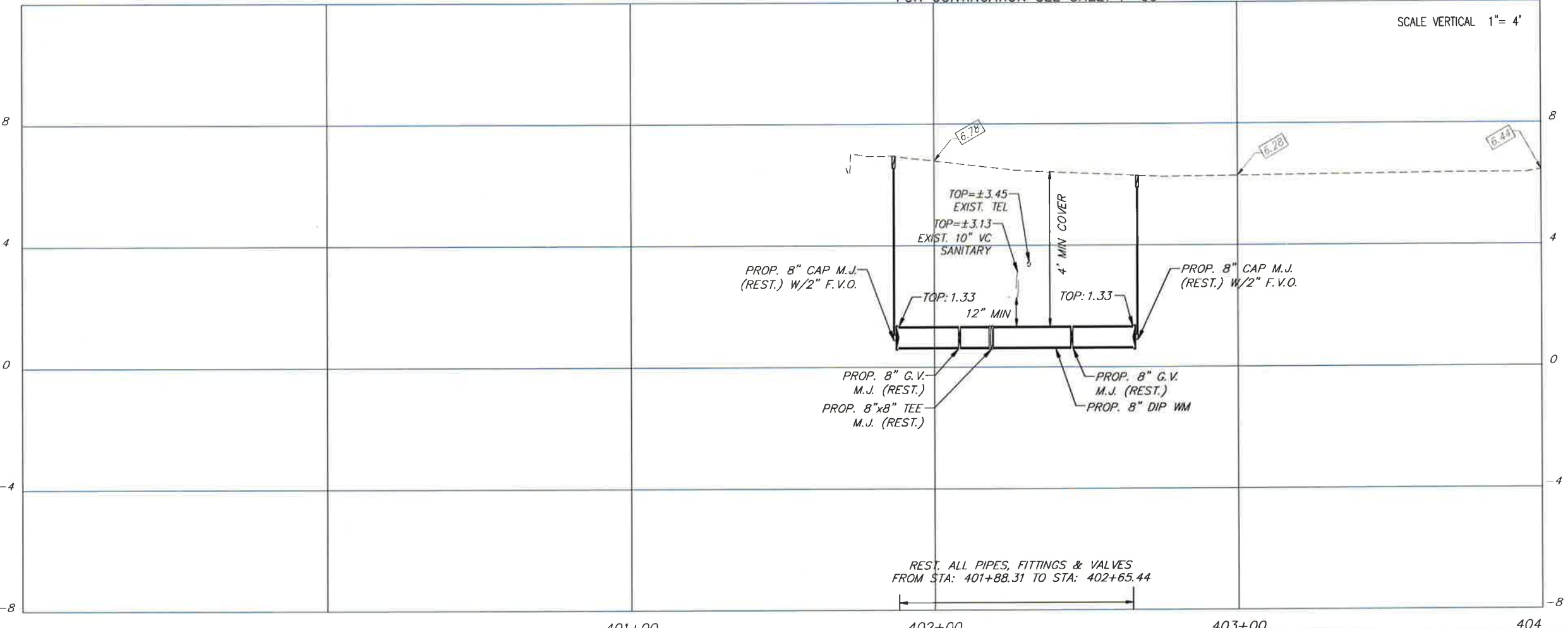
GROVE PARK WATER MAIN IMPROVEMENTS  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT, NW 19 CT  
 ALONG NW 18 CT, FROM NW 7 ST. TO NW 9 ST., AND ALONG NW 8 ST.,  
 FROM NW 7 ST TO NW 8 ST., AND ALONG NW 18 AVE  
 FROM NW 18 CT. TO NW 18 AVE  
 PCTS No. 15041 ER No. W017110

REVISIONS			
No.	DESCRIPTION	DATE	BY

APPROVALS	
PROJECT MGR: MM	CHECKED: DC
DESIGNED: SM	DRAWN: SP
CHIEF ENGINEER:	
SECTION HEAD:	

**MARLON J. MEDINA**  
 LICENSED PROFESSIONAL ENGINEER  
 NOVEMBER 2008, P.E.  
 CIVIL ENGINEER  
 State of Florida - License No. 79057  
 901 Ponce de Leon Blvd S-209  
 Coral Gables, FL  
 33134  
 Date: 11/31/17

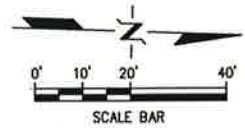
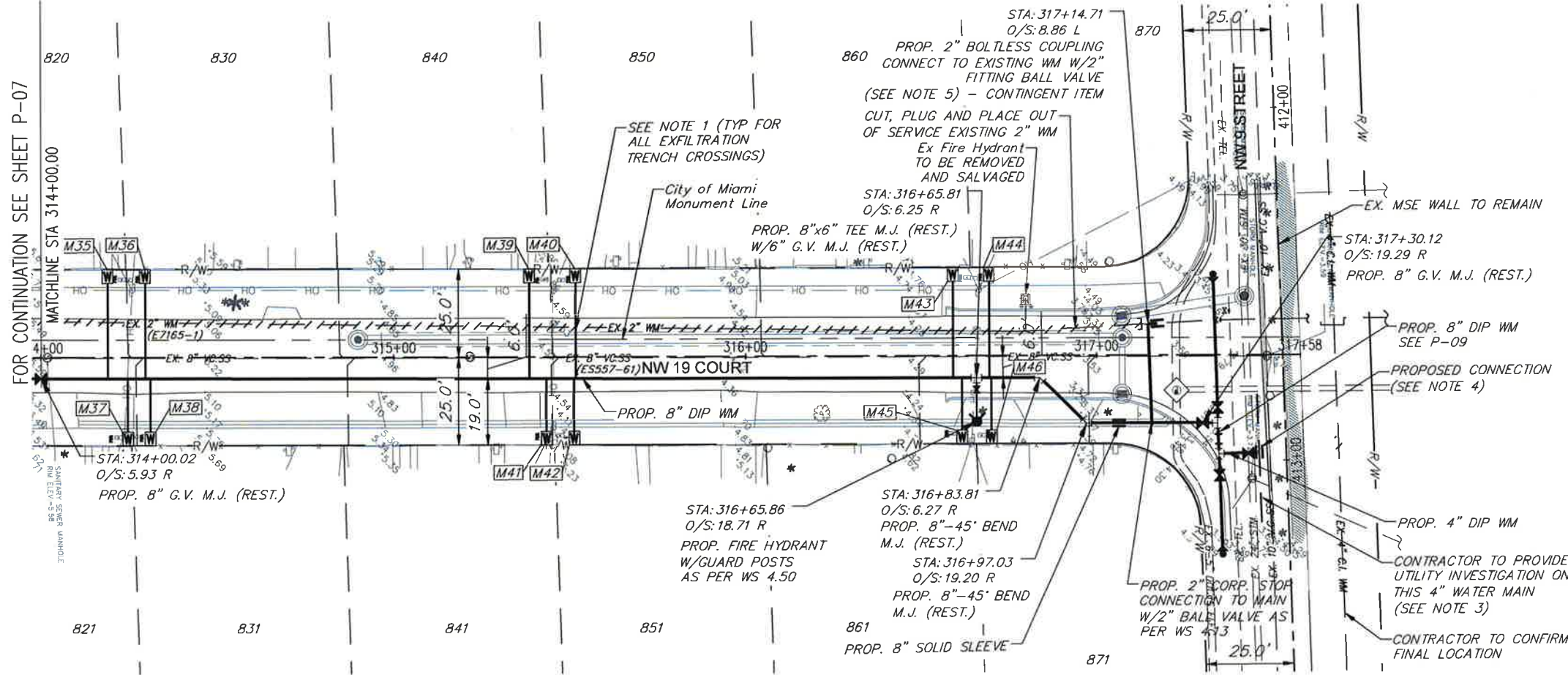
Attention is directed to the fact that these plans may have been reduced in size by reproduction. This must be considered when obtaining scaled data.



REST. ALL PIPES, FITTINGS & VALVES FROM STA: 401+88.31 TO STA: 402+65.44

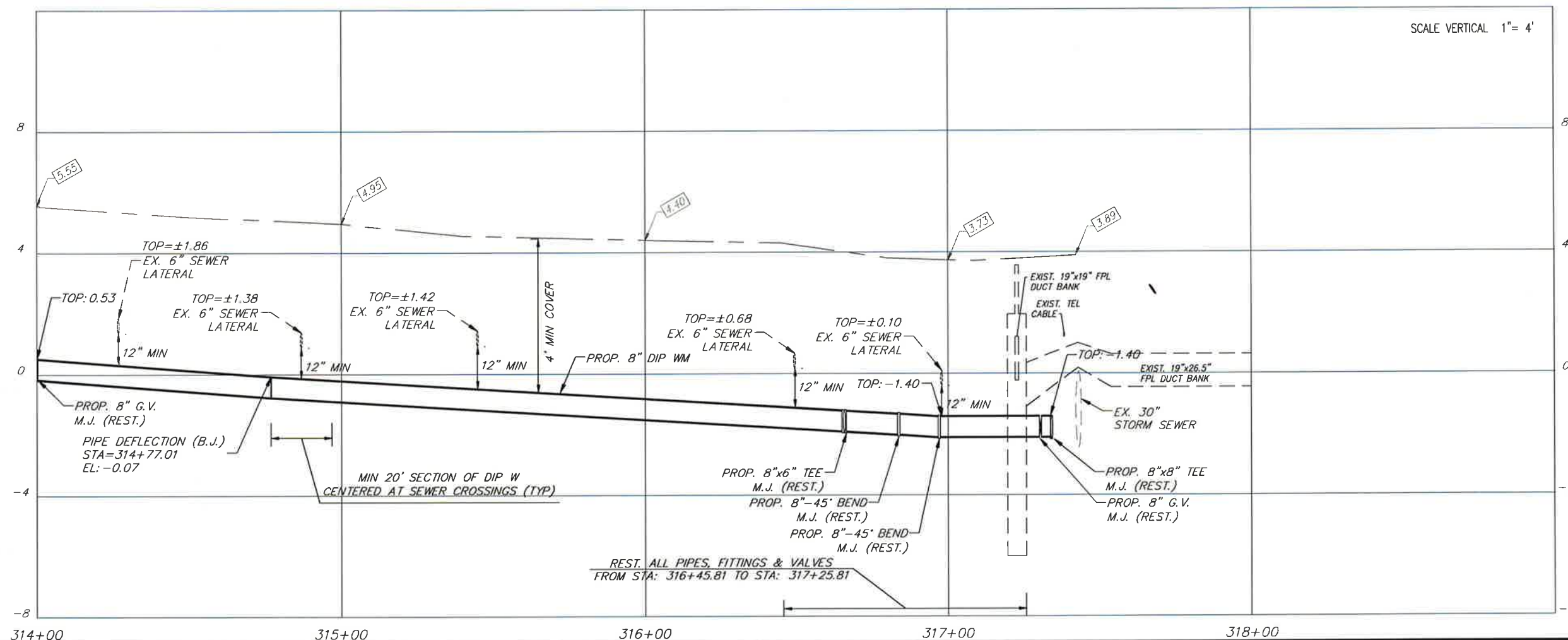
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**NOTES:**

1. NEW WATER SERVICE CROSSING EXFILTRATION TRENCH SHALL BE INSTALLED INSIDE A 4" DIP SLEEVE, MINIMUM 10 FT LENGTH AND CENTERED ON THE TRENCH PER FDOT INDEX 285.
2. CONTRACTOR TO VERIFY DIAMETER AND ELEVATION OF PIPES PRIOR TO COMMENCEMENT OF WORK
3. CONTRACTOR SHALL PERFORM UTILITY INVESTIGATION ON EX. WM ALONG NW 9TH STREET. INVESTIGATION TO INCLUDE SOFT DIGS AND UTILITY LOCATE.
4. THIS CONNECTION SHALL BE IMPLEMENTED IF EX. WATER MAIN ON NW 9TH STREET IS FOUND. FINAL DECISION TO BE MADE BY WASD DEPARTMENT
5. WASD TO APPROVE FINAL CONNECTION ON 9TH STREET/NW 19TH COURT ONCE ALL INFORMATION HAS BEEN SUBMITTED FOR REVIEW AND APPROVAL.



**PLAN & PROFILE**  
 GROVE PARK WATER MAIN IMPROVEMENTS  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT., NW 19 CT  
 FROM NW 7 ST. TO NW 9 ST.  
 ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 8 ST.,  
 FROM NW 18 CT. TO NW 19 AVE  
 PCTS No. 15041 ER No. W017110

**REVISIONS**

No.	DESCRIPTION	DATE	BY

**APPROVALS**

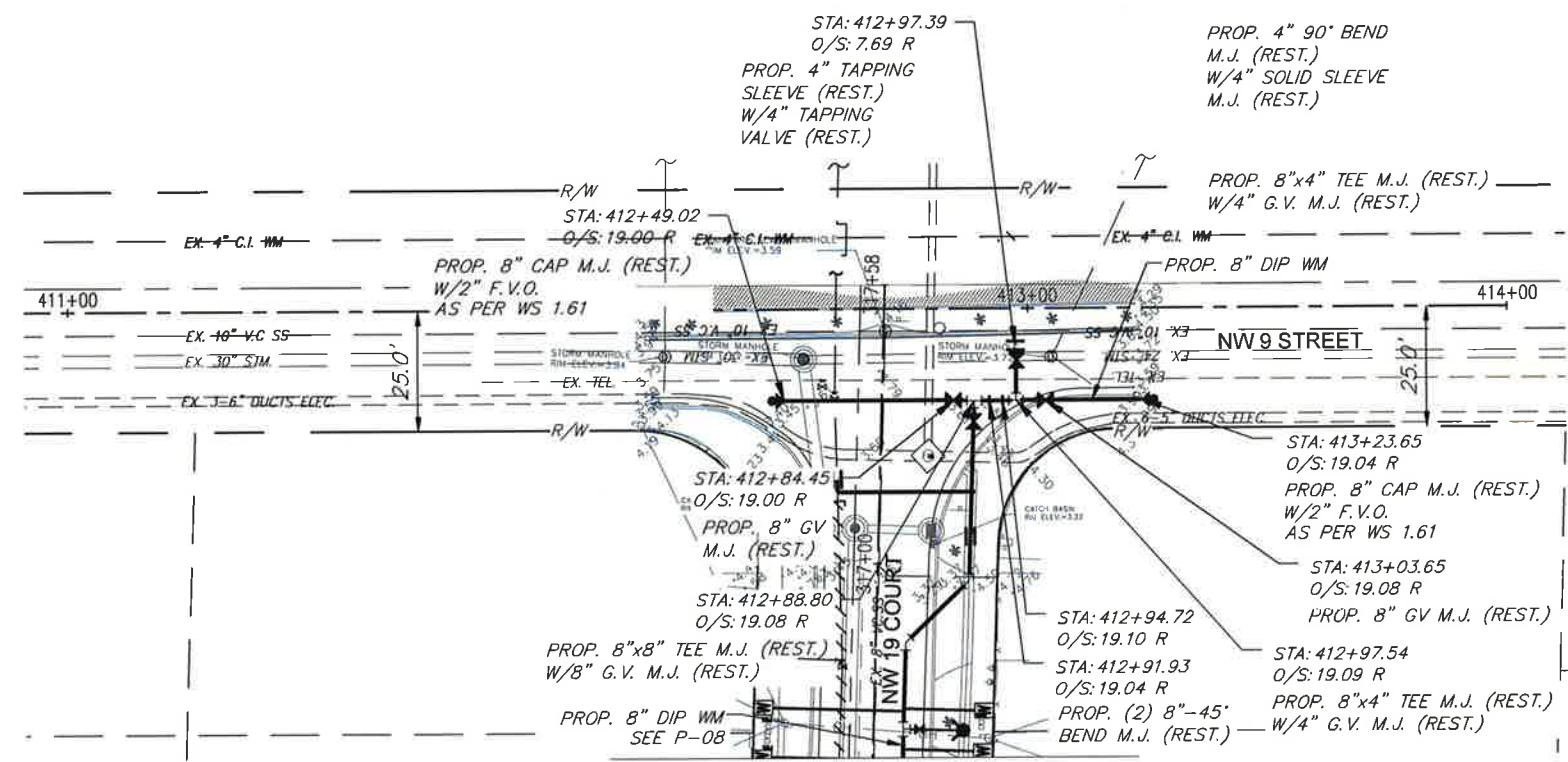
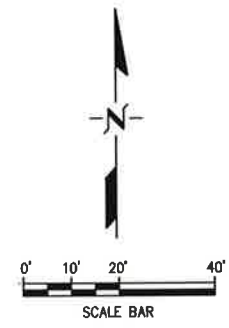
PROJECT MGR: MM	CHECKED: DC
DESIGNED: SM	DRAWN: SP



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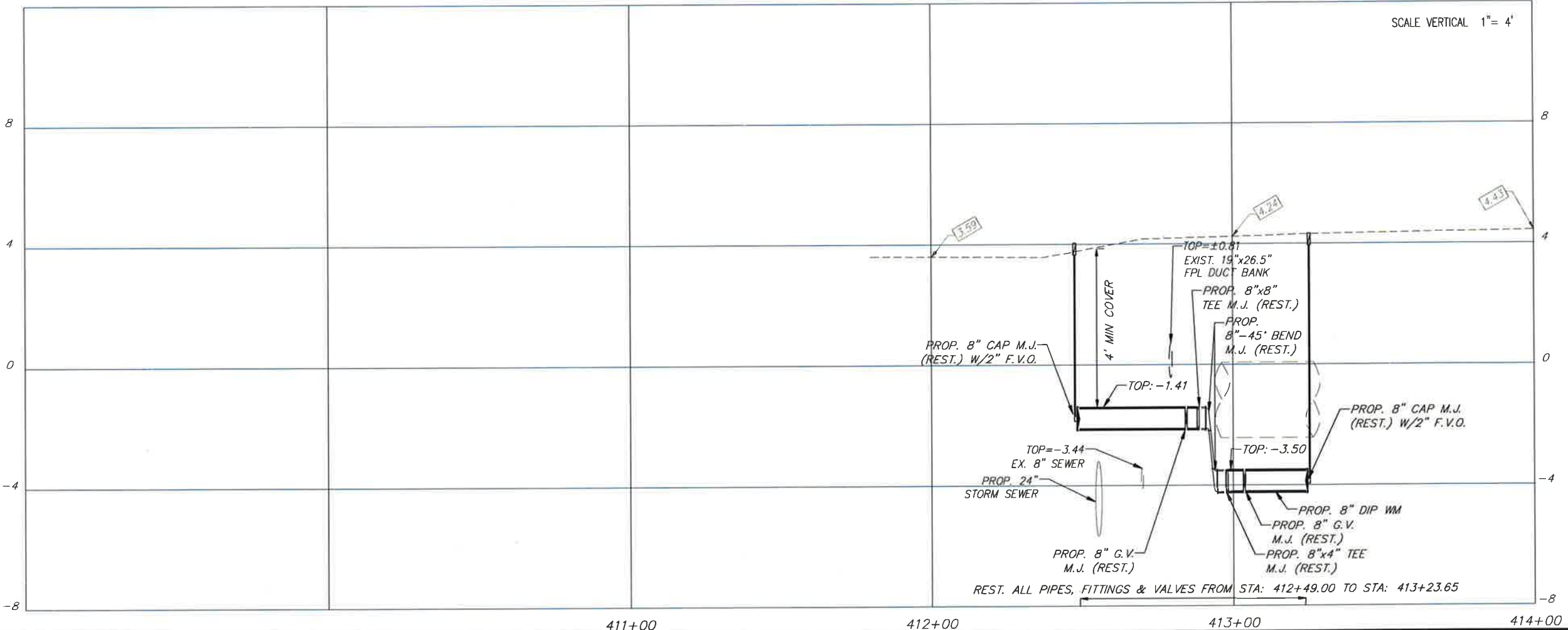
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 Dec / 07 / 2017 - 3:22pm





- NOTES:**
1. NEW WATER SERVICE CROSSING EXFILTRATION TRENCH SHALL BE INSTALLED INSIDE A 4" DIP SLEEVE, MINIMUM 10 FT LENGTH AND CENTERED ON THE TRENCH PER FDOT INDEX 285.
  2. CONTRACTOR TO VERIFY DIAMETER AND ELEVATION OF PIPES PRIOR TO COMMENCEMENT OF WORK

FOR CONTINUATION SEE SHEET P-08



Attention is directed to the fact that these plans may have been reduced in size by reproduction. This must be considered when obtaining scaled data.

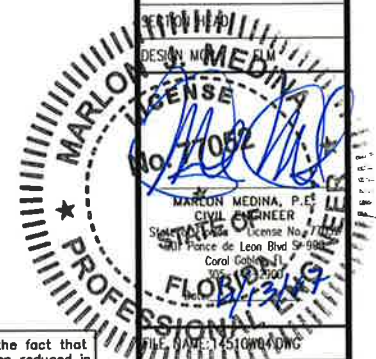
GROVE PARK WATER MAIN IMPROVEMENTS  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT., NW 19 CT. FROM NW 7 ST. TO NW 9 ST., ALONG NW 18 CT., FROM NW 7 ST. TO NW 8 ST., AND ALONG NW 8 ST., FROM NW 18 CT. TO NW 16 AVE.  
 PCTS No. 15041 ER No. W017110  
**PLAN & PROFILE**

**REVISIONS**

No.	DESCRIPTION	DATE	BY

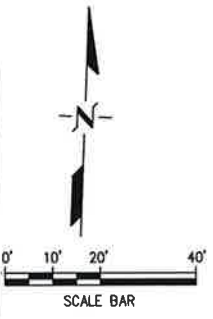
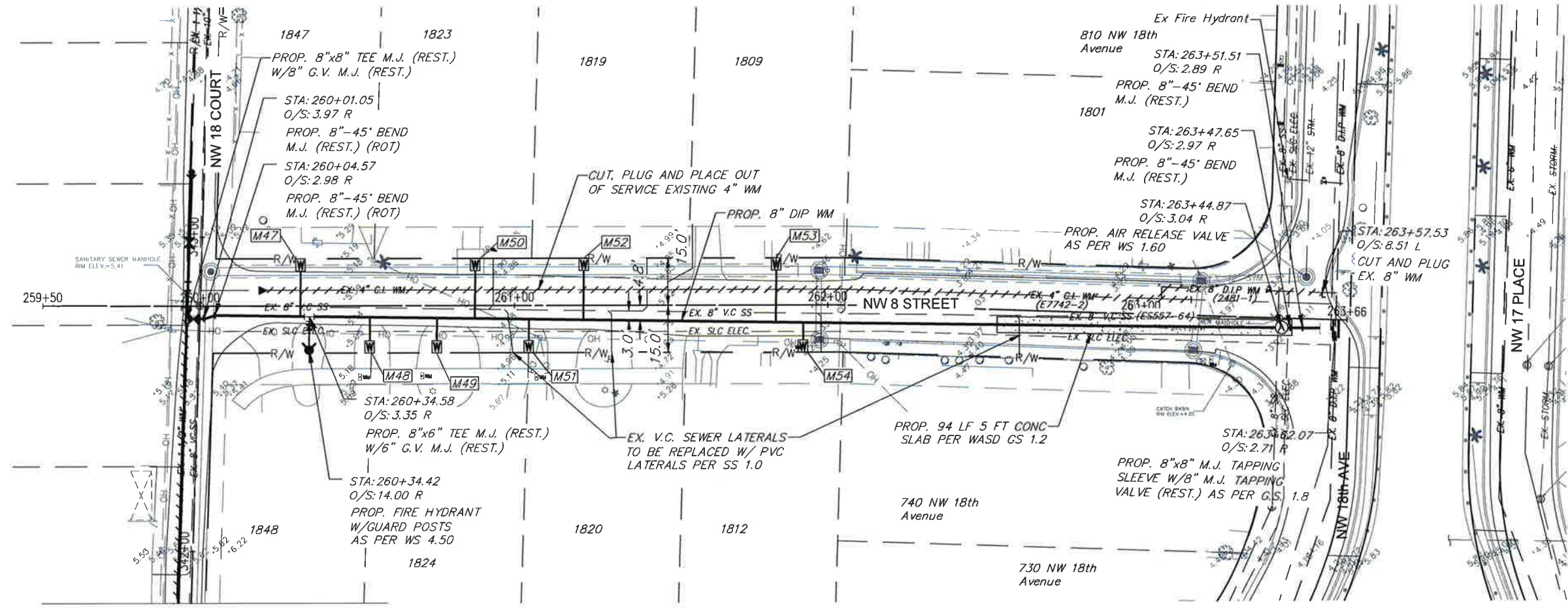
**APPROVALS**

PROJECT MGR: MM CHECKED: DC  
 DESIGNED: SM DRAWN: SP  
 CHIEF ENGINEER:

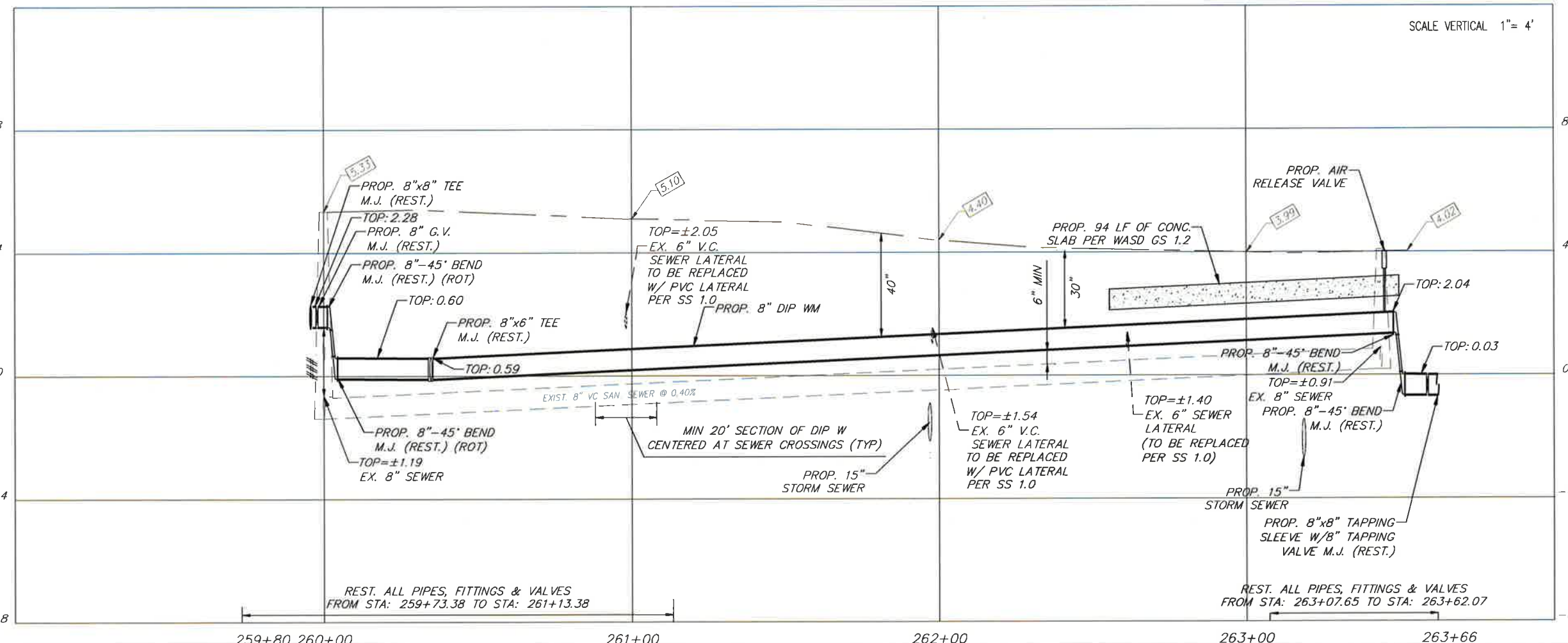


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 Dec 7 07: 2017 - 3:22pm





FOR CONTINUATION SEE SHEET P-10



- NOTES:
- NEW WATER SERVICE CROSSING EXFILTRATION TRENCH SHALL BE INSTALLED INSIDE A 4" DIP SLEEVE, MINIMUM 10 FT LENGTH AND CENTERED ON THE TRENCH PER FOOT INDEX 285.
  - CONTRACTOR TO VERIFY DIAMETER AND ELEVATION OF PIPES PRIOR TO COMMENCEMENT OF WORK

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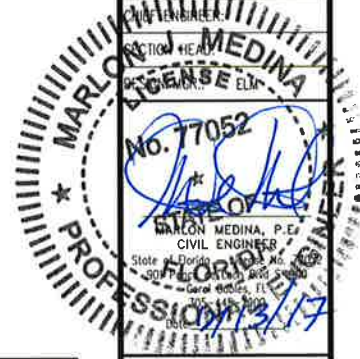
GROVE PARK WATER MAIN IMPROVEMENTS  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT., NW 19 CT.  
 FROM NW 7 ST. TO NW 9 ST.  
 ALONG NW 18 CT., FROM NW 7 ST. TO NW 8 ST., AND ALONG NW 8 ST.,  
 FROM NW 18 CT. TO NW 17 PLACE  
 PCTS No. 15041 ER No. W017110

REVISIONS

No.	DESCRIPTION	DATE	BY

APPROVALS

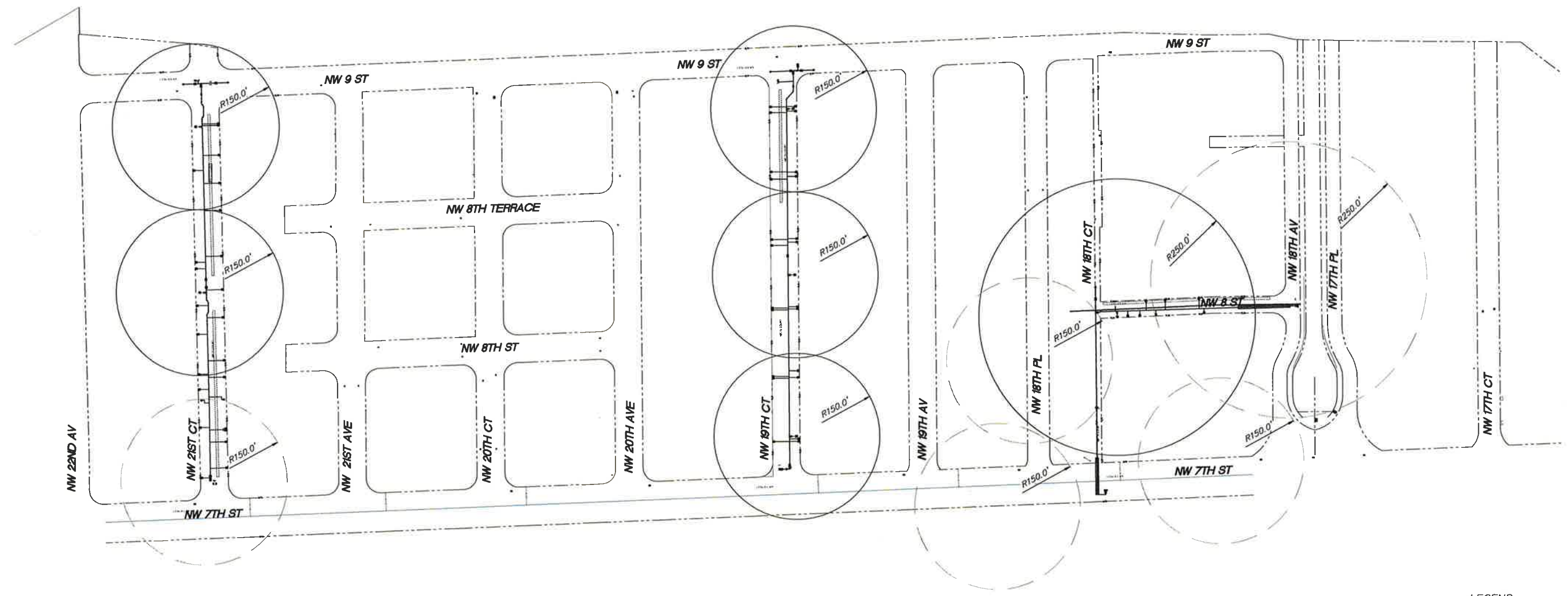
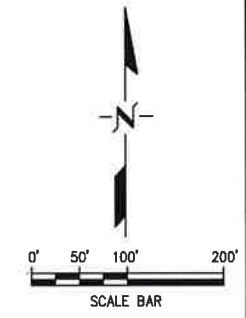
PROJECT MGR: MM CHECKED: DC  
 DESIGNED: SM DRAWN: SP



Attention is directed to the fact that these plans may have been reduced in size by reproduction. This must be considered when obtaining scaled data.

FILE NAME: 14510W04.DWG  
 DATE: 10/20/17 SCALE: 1"=40'  
 SHEET P-11 OF 15  
 DWG. No. W-22860-B

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IF EXISTING WATER MAIN IS IN CONFLICT WITH NEW FIRE HYDRANT, CONSTRUCT ASSEMBLY OF NEW FIRE HYDRANT TO VALVE UNTIL EXISTING MAIN IS TAKEN OUT OF SERVICE. REMOVE PORTION AT ASSEMBLY AND COMPLETE HYDRANT INSTALLATION.

**LEGEND:**  
 ○ EXIST. FIRE HYDRANT  
 ○ NEW FIRE HYDRANT

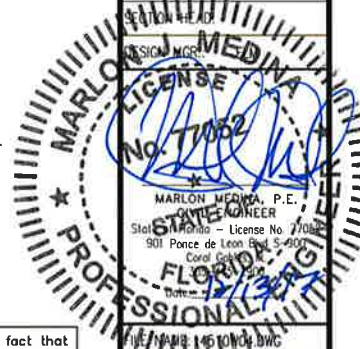
Attention is directed to the fact that these plans may have been reduced in size by reproduction. This must be considered when obtaining scaled data.

**GROVE PARK WATER MAIN IMPROVEMENTS**  
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT., NW 19 CT. FROM NW 7 ST. TO NW 9 ST., ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 8 ST., FROM NW 18 CT. TO NW 18 AVE NW 17 CT. ER No. W017110  
 PCTS No. 15041  
**FIRE HYDRANT LOCATION PLAN**

**REVISIONS**

No.	DESCRIPTION	DATE	BY

**APPROVALS**  
 PROJECT MGR: MM CHECKED: DC  
 DESIGNED: SM DRAWN: SP  
 CHIEF ENGINEER:



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**WATER SERVICE SCHEDULE**

METER	STATION & OFFSET	BASELINE	WATER SERVICE	METER SIZE	SIZE (LF)		COMMENTS
					1"	2"	
M1	STA: 390+41.48 OFFSET: 22.77' LT	NW 21ST COURT	1"	5/8"	16'		
M2	STA: 390+58.77 OFFSET: 22.96' RT	NW 21ST COURT	1"	5/8"	30'		NO METER
M3	STA: 391+06.04 OFFSET: 22.05' RT	NW 21ST COURT	1"	5/8"	30'		
M4	STA: 391+26.45 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	37'		
M5	STA: 391+29.45 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"			
M6	STA: 391+32.45 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		
M7	STA: 392+01.49 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		
M8	STA: 392+22.90 OFFSET: 22.73' RT	NW 21ST COURT	1"	5/8"	29'		
M9	STA: 392+28.72 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		
M10	STA: 392+53.06 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M11	STA: 393+01.21 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		
M12	STA: 393+30.88 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M13	STA: 393+53.15 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	20'		
M14	STA: 393+81.31 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M15	STA: 394+20.00 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		
M16	STA: 394+31.67 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		
M17	STA: 394+41.79 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M18	STA: 395+24.63 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M19	STA: 395+73.98 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M20	STA: 395+97.67 OFFSET: 23.05' LT	NW 21ST COURT	1"	5/8"	17'		NO METER
M21	STA: 396+24.63 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M22	STA: 396+78.39 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M23	STA: 396+81.51 OFFSET: 23.05' RT	NW 21ST COURT	1"	5/8"	29'		
M24	STA: 310+64.17 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M25	STA: 310+64.19 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M26	STA: 310+68.86 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M27	STA: 311+78.69 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M28	STA: 311+82.02 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M29	STA: 311+80.05 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M30	STA: 311+91.95 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M31	STA: 313+02.30 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M32	STA: 313+05.55 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M33	STA: 313+03.87 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M34	STA: 313+07.71 OFFSET: 23.00' RT	NW 19TH COURT	1"	5/8"	17'		
M35	STA: 314+18.92 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M36	STA: 314+29.54 OFFSET: 23.08' LT	NW 19TH COURT	1"	5/8"	29'		
M37	STA: 314+24.71 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M38	STA: 314+31.06 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M39	STA: 315+38.69 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M40	STA: 315+51.79 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		

**WATER SERVICE SCHEDULE**

METER	STATION & OFFSET	BASELINE	WATER SERVICE	METER SIZE	SIZE (LF)		COMMENTS
					1"	2"	
M41	STA: 315+43.48 OFFSET: 23.07' RT	NW 19TH COURT	1"	5/8"	17'		
M42	STA: 315+51.40 OFFSET: 23.04' RT	NW 19TH COURT	1"	5/8"	17'		
M43	STA: 316+59.14 OFFSET: 23.05' LT	NW 19TH COURT	1"	5/8"	29'		
M44	STA: 316+69.39 OFFSET: 23.04' LT	NW 19TH COURT	1"	5/8"	29'		
M45	STA: 316+61.66 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M46	STA: 316+70.12 OFFSET: 23.05' RT	NW 19TH COURT	1"	5/8"	17'		
M47	STA: 260+31.89 OFFSET: 13.05' LT	NW 8TH STREET	1"	5/8"	16'		
M48	STA: 260+53.67 OFFSET: 13.05' RT	NW 8TH STREET	1"	5/8"	10'		
M49	STA: 260+75.19 OFFSET: 13.05' RT	NW 8TH STREET	1"	5/8"	9'		
M50	STA: 260+87.54 OFFSET: 13.05' LT	NW 8TH STREET	1"	5/8"	17'		
M51	STA: 261+04.49 OFFSET: 13.05' RT	NW 8TH STREET	1"	5/8"	9'		
M52	STA: 261+22.12 OFFSET: 13.05' LT	NW 8TH STREET	1"	5/8"	18'		NO METER
M53	STA: 261+83.67 OFFSET: 13.05' LT	NW 8TH STREET	1"	5/8"	19'		
M54	STA: 261+92.09 OFFSET: 13.05' RT	NW 8TH STREET	1"	5/8"	8'		

**NOTE:**  
FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL COORDINATE TO VERIFY INFORMATION IN THE FIELD.

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**WATER & SEWER DEPARTMENT**  
3071 SW 38TH AVENUE  
MIAMI, FL 33146-1520  
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www.miamidade.gov/water



GROVE PARK WATER MAIN IMPROVEMENTS  
FURNISH & INSTALL 8-INCH D.I. WATER MAIN ALONG NW 21 CT., NW 19 CT.  
FROM NW 7 ST. TO NW 9 ST.  
ALONG NW 18 CT., FROM NW 7 ST TO NW 8 ST., AND ALONG NW 8 ST.,  
FROM NW 18 CT. TO NW 18 AVE  
PCTS No. 15041 ER No. W017110  
WATER SERVICE SCHEDULE

**REVISIONS**

No.	DESCRIPTION	DATE	BY

**APPROVALS**

PROJECT MGR: MM CHECKED: DC  
DESIGNED: SM DRAWN: SP  
CHIEF ENGINEER:  
MARLON MEDINA, P.E.  
STATE ENGINEER  
901 Ponce de Leon Blvd. 5-200  
Coral Gables, Florida 33134  
FLORIDA PROFESSIONAL ENGINEERING  
No. 171032

DATE: 10/20/17 SCALE: 1"=40'  
SHEET P-14 OF 15  
DWG. No. W-22863-B

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