

# CONSTRUCTION PLANS

for

# INDIAN RIVER COUNTY NORTH COUNTY WATER & SEWER SYSTEM PHASE 2

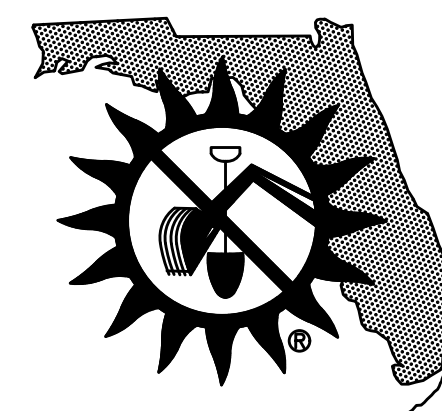
## INDIAN RIVER COUNTY, FLORIDA JANUARY, 2021

### INDEX OF SHEETS

- 1. TITLE SHEET
- 2. CONSTRUCTION NOTES
- 3. KEY MAP
- 4.-5. 82ND COURT PLAN AND PROFILE
- 6. 128TH COURT & 129TH STREET PLAN AND PROFILE
- 7. 129TH COURT & 130TH STREET PLAN AND PROFILE
- 8.-9. 83RD AVENUE PLAN AND PROFILE
- 10. 133RD PLACE PLAN AND PROFILE
- 11. 82ND COURT & 133RD COURT PLAN AND PROFILE
- 12.-13. 83RD AVENUE PLAN AND PROFILE
- 14. 134TH STREET PLAN AND PROFILE
- 15. 135TH STREET PLAN AND PROFILE
- 16. 133RD PLACE PLAN AND PROFILE
- 17. 83RD AVENUE PLAN AND PROFILE
- 18. 135TH LANE PLAN AND PROFILE
- 19. 144TH STREET & 78TH AVENUE PLAN
- 19A.-20. 80TH STREET PLAN AND PROFILE
- 21. 143RD STREET PLAN AND PROFILE
- 22. 142ND STREET PLAN AND PROFILE
- 23. 81ST AVENUE PLAN AND PROFILE
- 24. 141ST STREET PLAN AND PROFILE
- 25. 140TH STREET PLAN AND PROFILE
- 26. 110TH STREET PLAN AND PROFILE
- 27. 142ND WAY & 143RD STREET PLAN
- 28. BAY STREET PLAN AND PROFILE
- 29. RUFFNER LANE PLAN AND PROFILE
- 30.-30A.,31. SANITARY SEWER DETAILS
- 32-33. POTABLE WATER & CONSTRUCTION DETAILS
- 34.-35. POTABLE WATER DETAILS
- 36. SWPPP TEMPLATE FOR MINIMUM BMP'S
- 37. MAINTENANCE OF TRAFFIC DETAILS

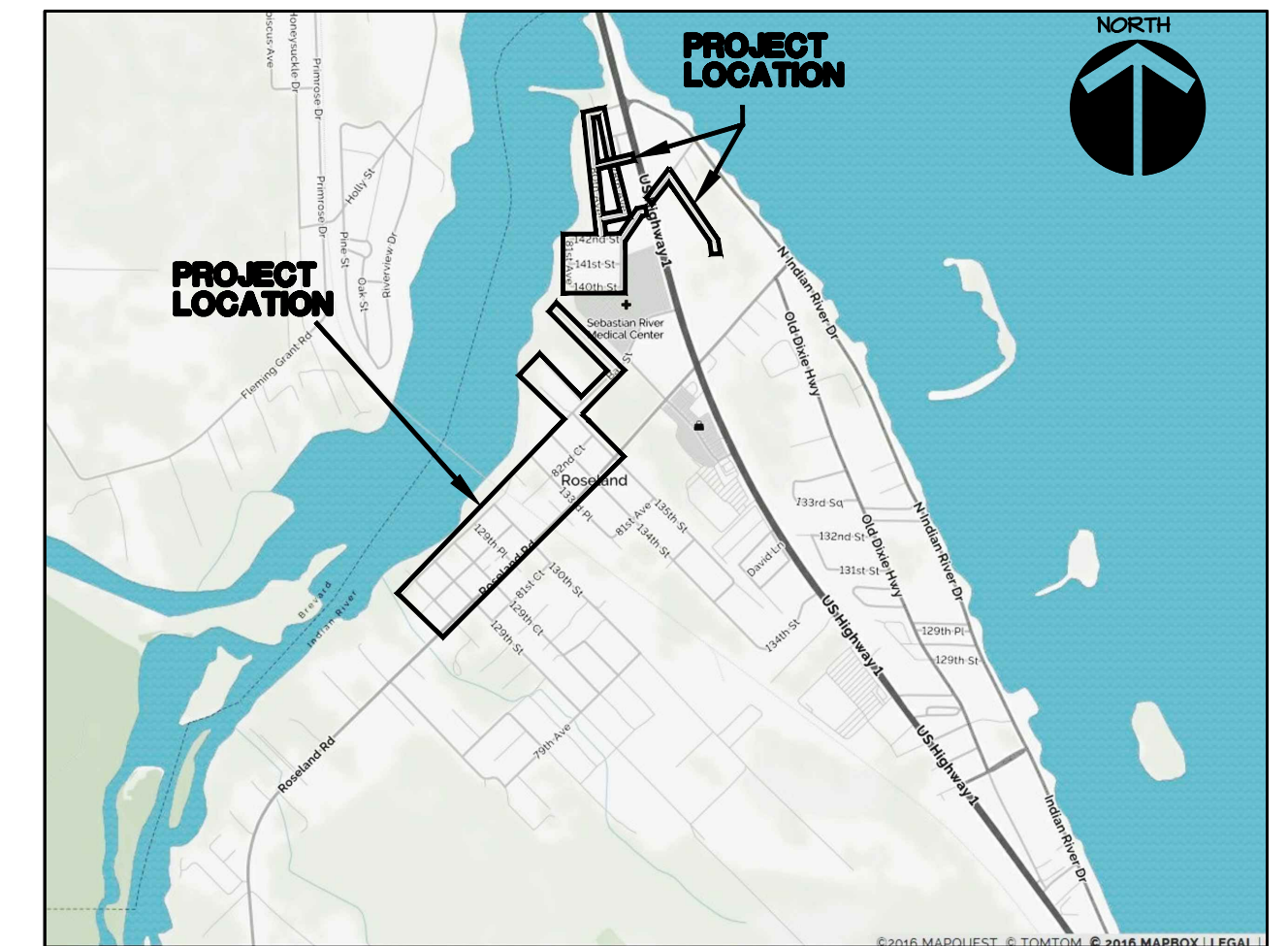


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### VICINITY MAP (NOT TO SCALE)



### OWNER/APPLICANT

INDIAN RIVER COUNTY UTILITIES DEPARTMENT  
1801 27th STREET  
VERO BEACH, FLORIDA 32960  
Ph. (772) 226-1834

### ENGINEER

MASTELLER AND MOLER, INC.  
1655 27TH STREET, SUITE 2  
VERO BEACH, FLORIDA 32960  
Phone: (772) 567-5300  
mastmolr@bellsouth.net

### SURVEYOR

MASTELLER, MOLER, AND TAYLOR, INC.  
1655 27TH STREET, SUITE 2  
VERO BEACH, FLORIDA 32960  
Phone: (772) 564-8050

### FOR BIDDING PURPOSES ONLY

ADDENDUM NO. 3

**INDIAN RIVER COUNTY NORTH COUNTY  
WATER & SEWER SYSTEM - PHASE 2**

**M M MASTELLER & MOLER, INC.**  
CONSULTING ENGINEERS

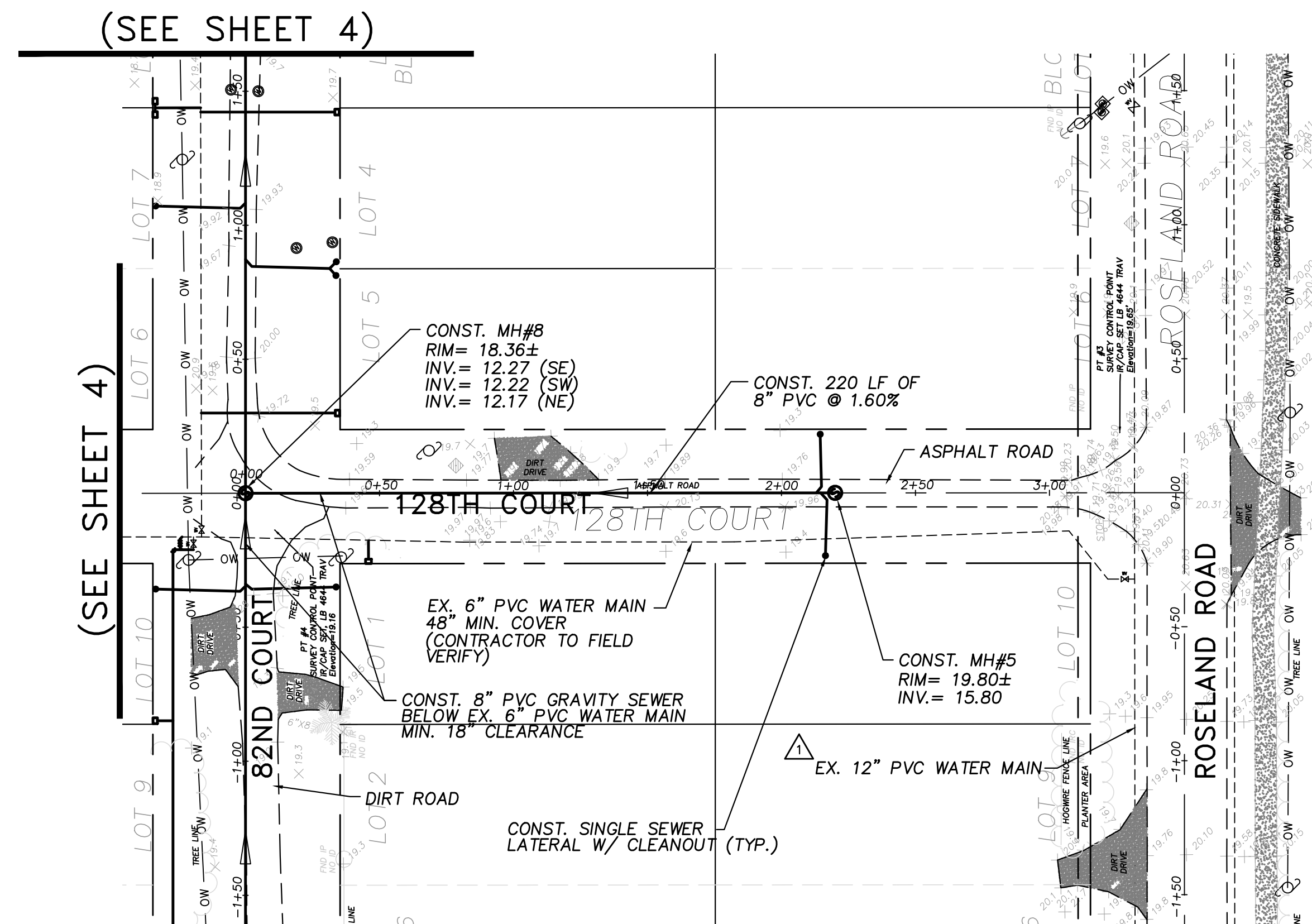
CERTIFICATE OF AUTHORIZATION NO. 4204  
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PHONE: (772) 567-5300 ~ FAX: (772) 794-1106

01/19/2021

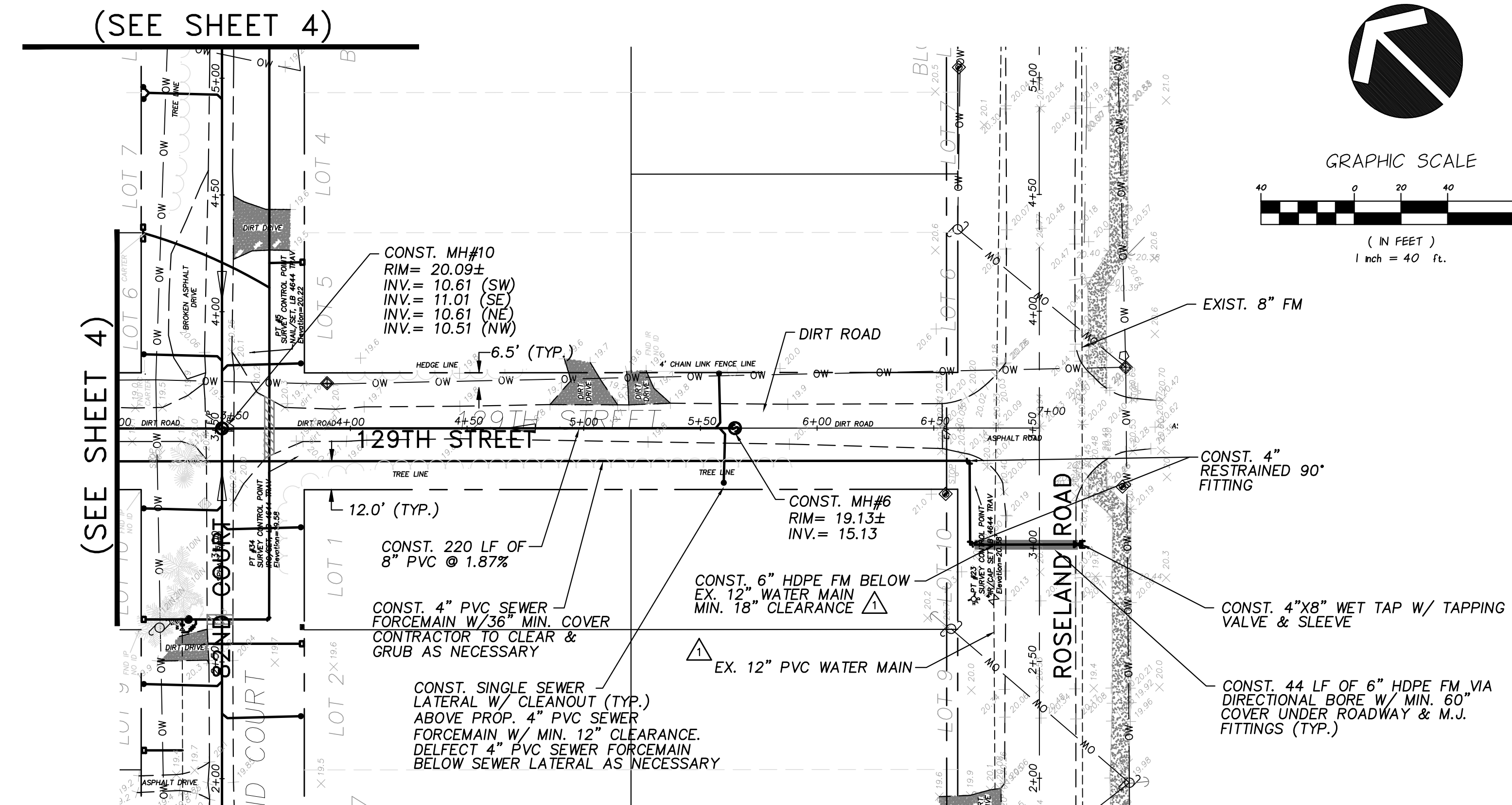
EARL H. MASTELLER, P.E. FL#26658

NO.	DATE	DESCRIPTION	DR/APP
1	01/15/21	REVISED PER ADDENDUM NO. 3 COMMENTS	JRM/EHM
REVISIONS			

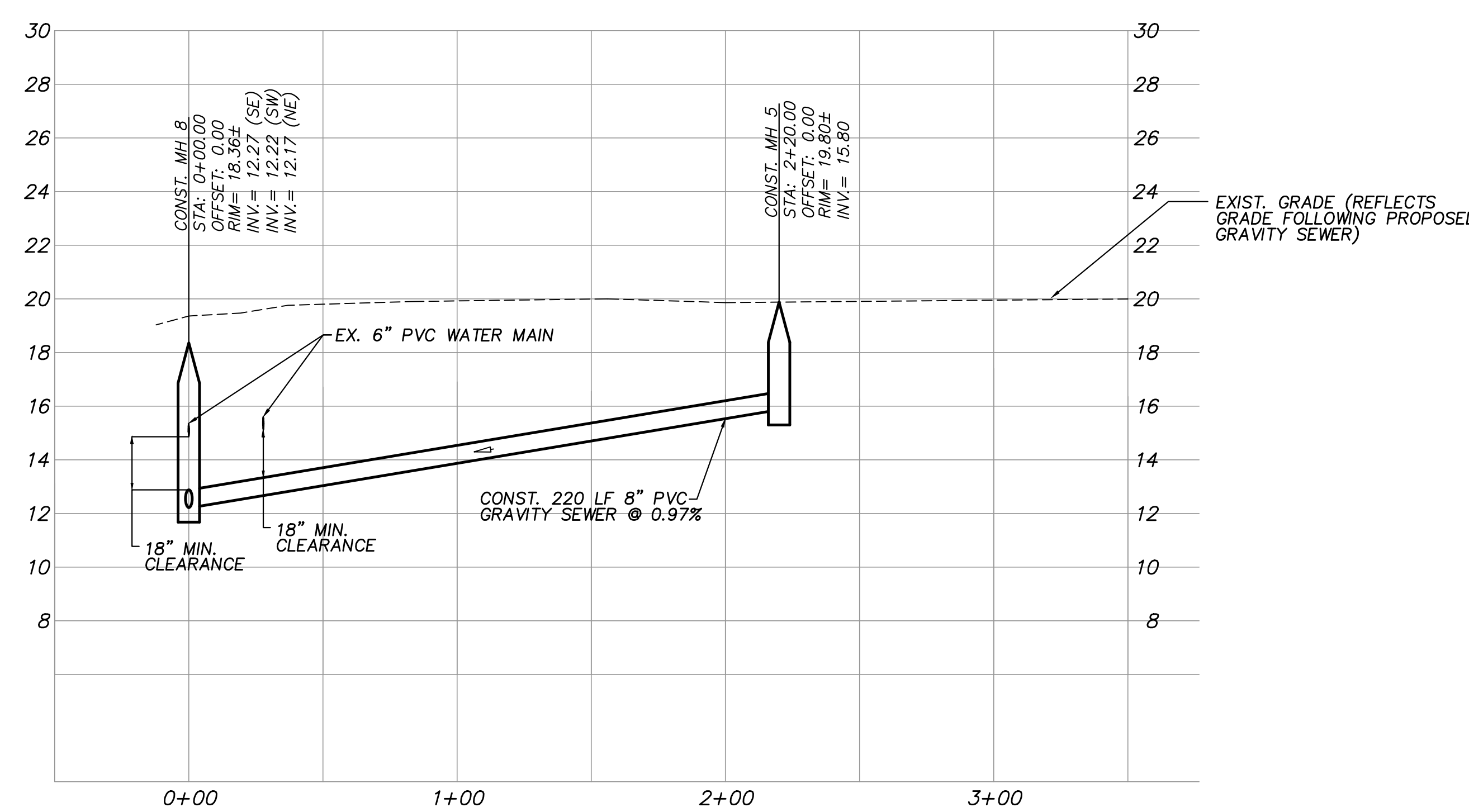
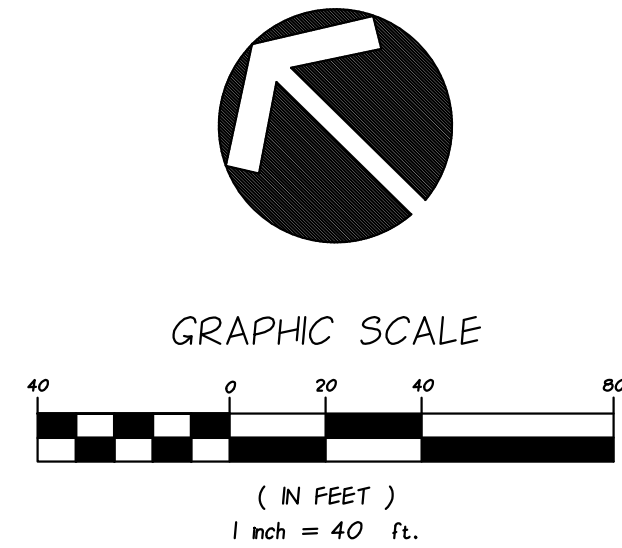
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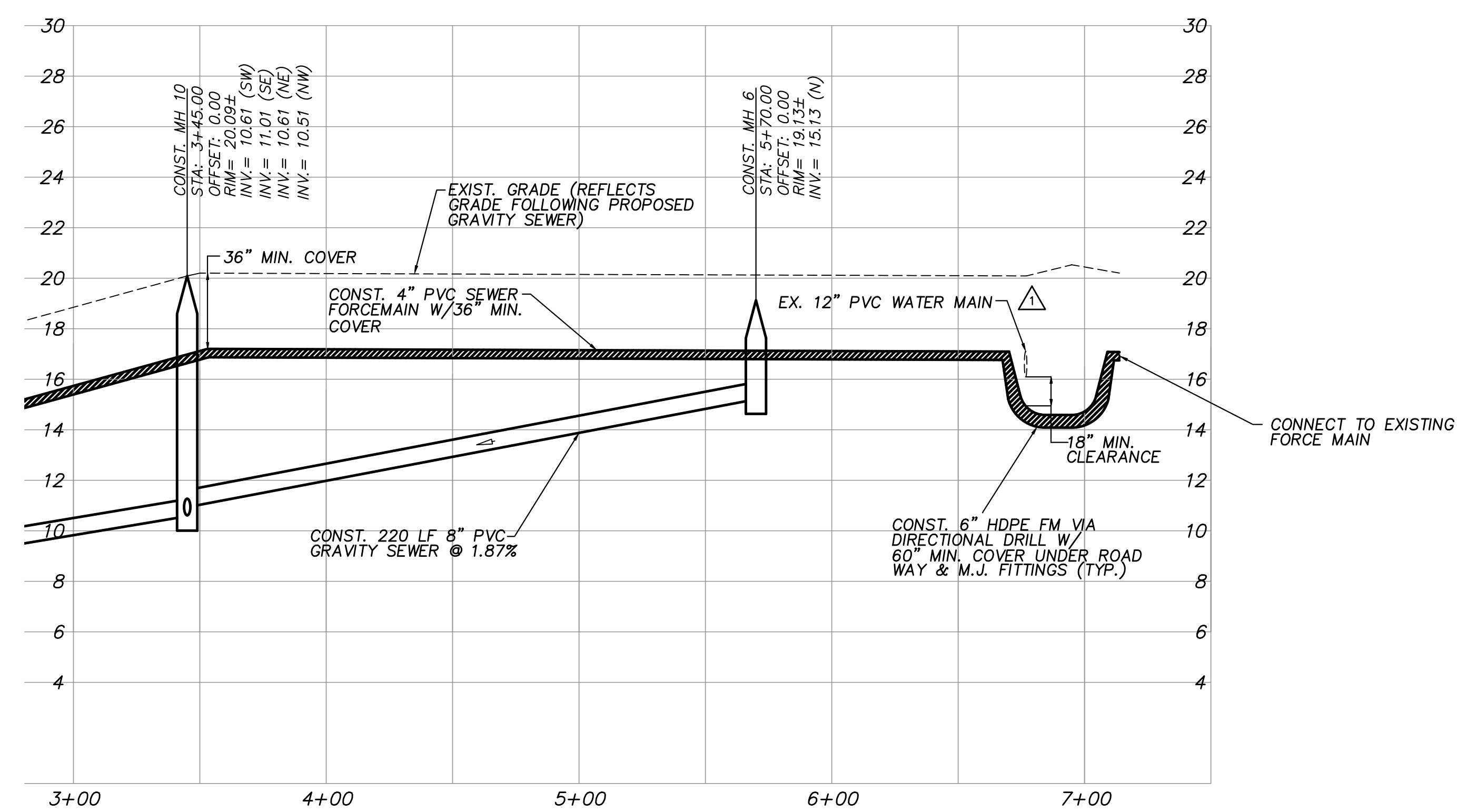
**PLAN VIEW**  
SCALE: 1"=40'



**PLAN VIEW**  
SCALE: 1"=40'



**PROFILE VIEW**  
HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'



**PROFILE VIEW**  
HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

**NOTES:**  
SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS  
PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH  
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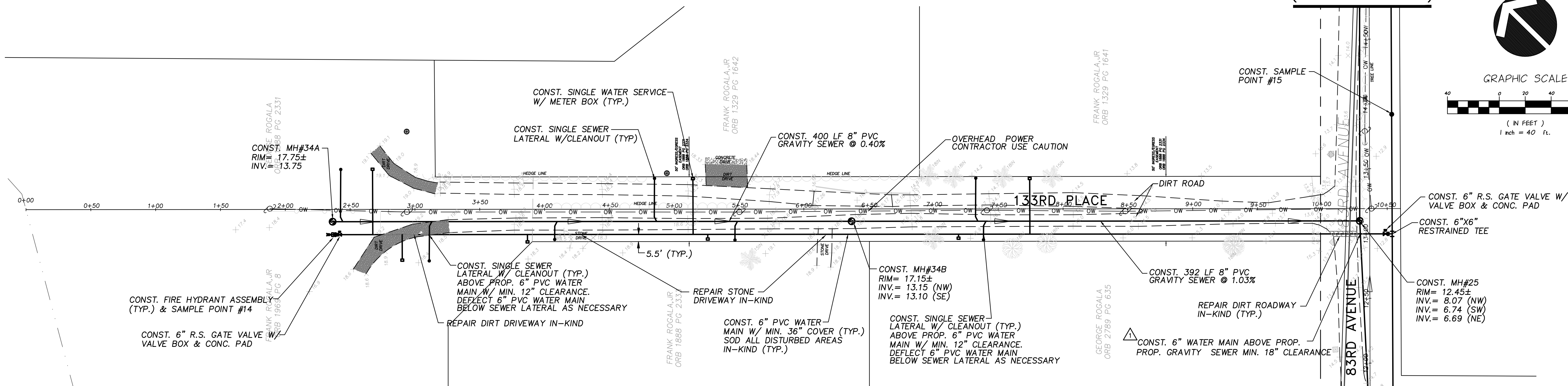
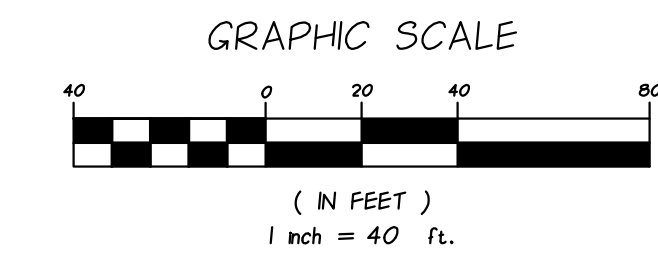
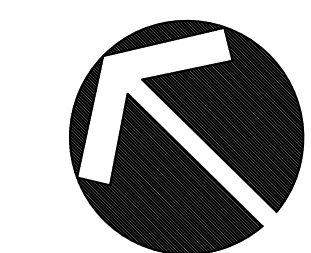
INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
**128TH CT & 129TH ST PLAN & PROFILES**

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CHECKED	EHM
DATE	10/22/2018
SCALE	AS SHOWN
SHEET	6 OF 37
DWG NO	1422

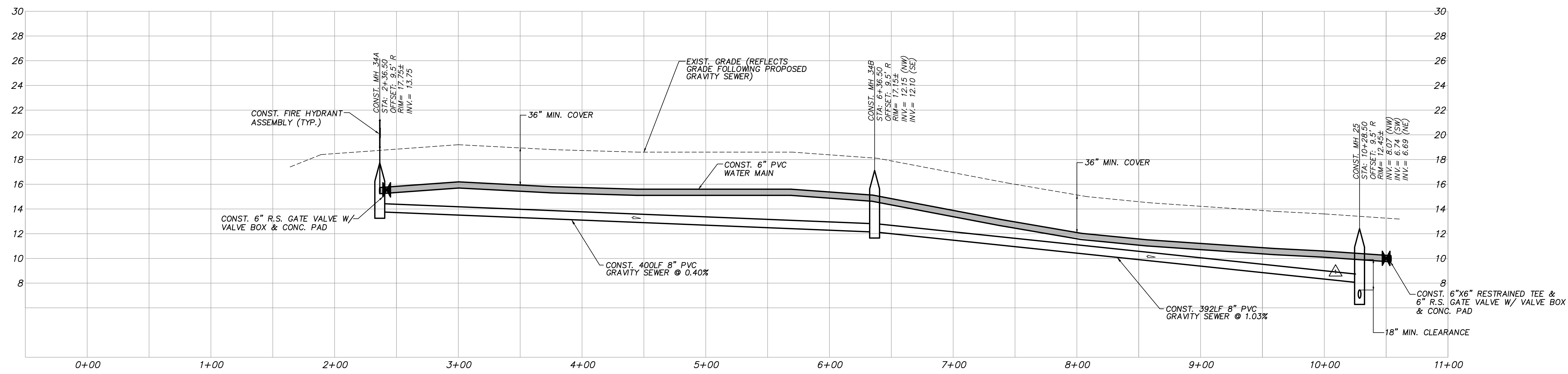
01/19/2021  
EARL H. MASTELLER, P.E. FL#26658

(SEE SHEET 17)



**PLAN VIEW**  
SCALE: 1"=40'

(SEE SHEET 13)



**PROFILE VIEW**  
HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

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**FOR BIDDING PURPOSES ONLY**

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REVISIONS			

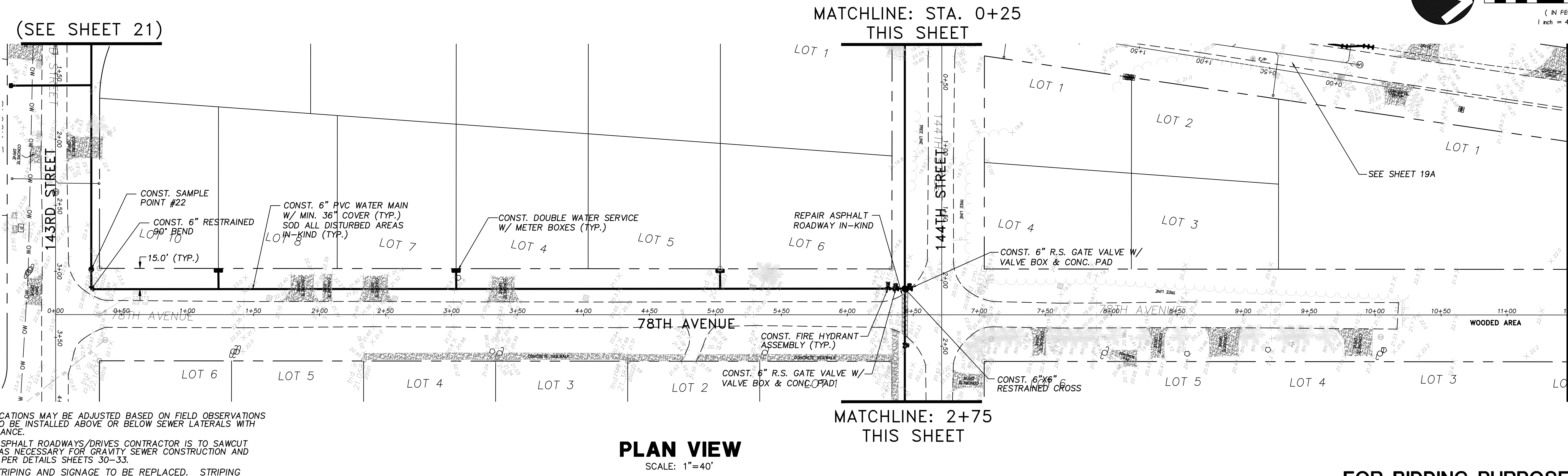
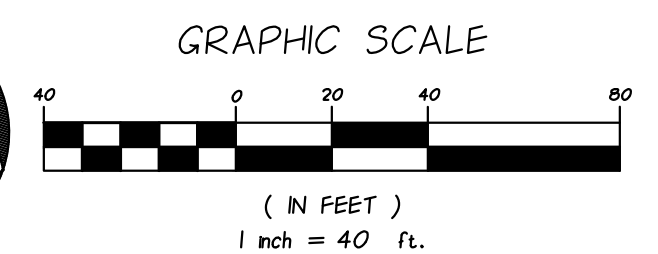
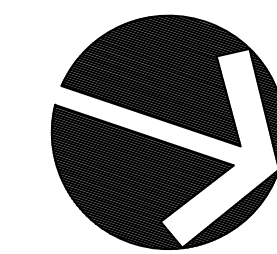
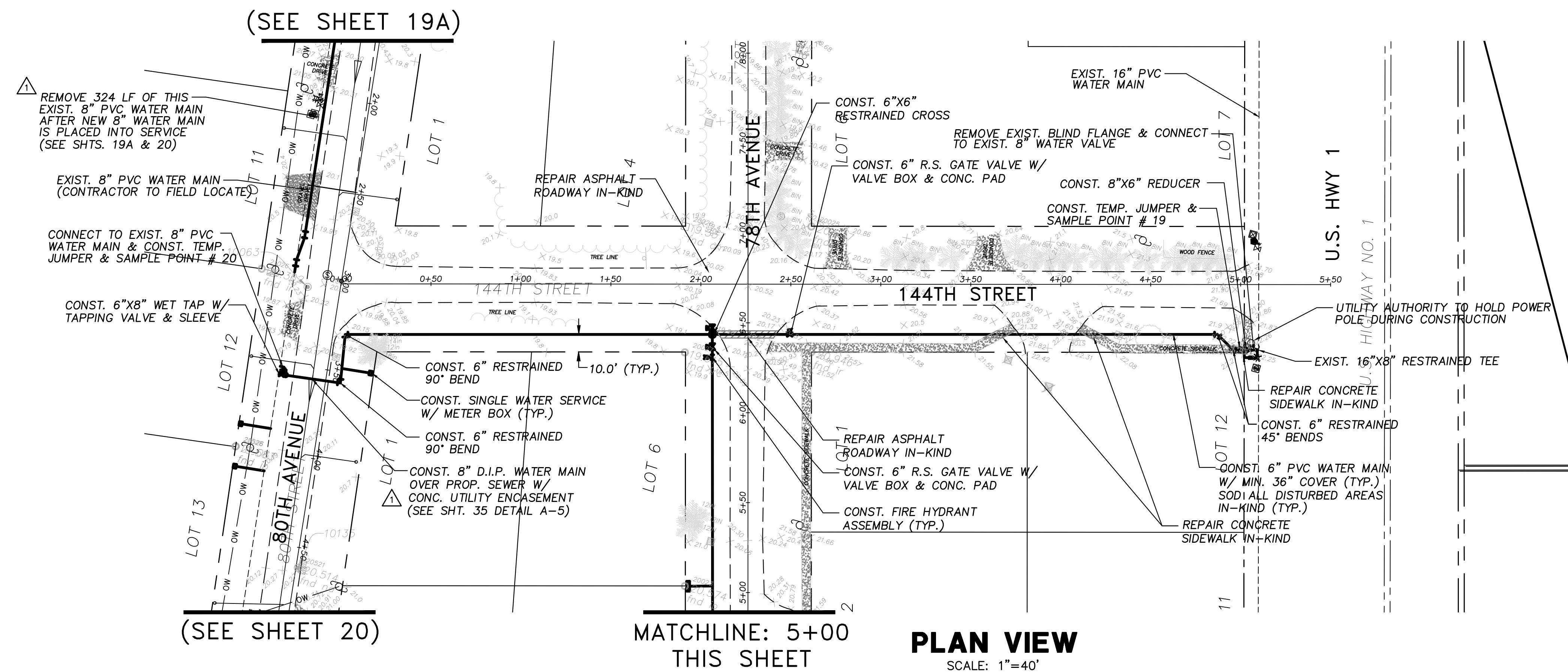
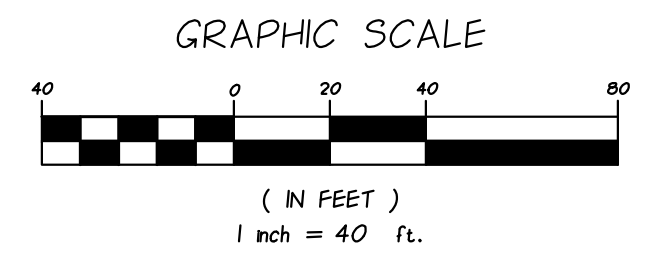
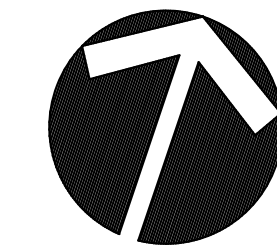
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**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
133RD PLACE PLAN AND PROFILES**

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CHECKED	EHM
DATE	10/22/2018
SCALE	AS SHOWN
SHEET	16 OF 37
DWG NO	1422

01/19/2021  
EARL H. MASTELLER, P.E. FL#26658



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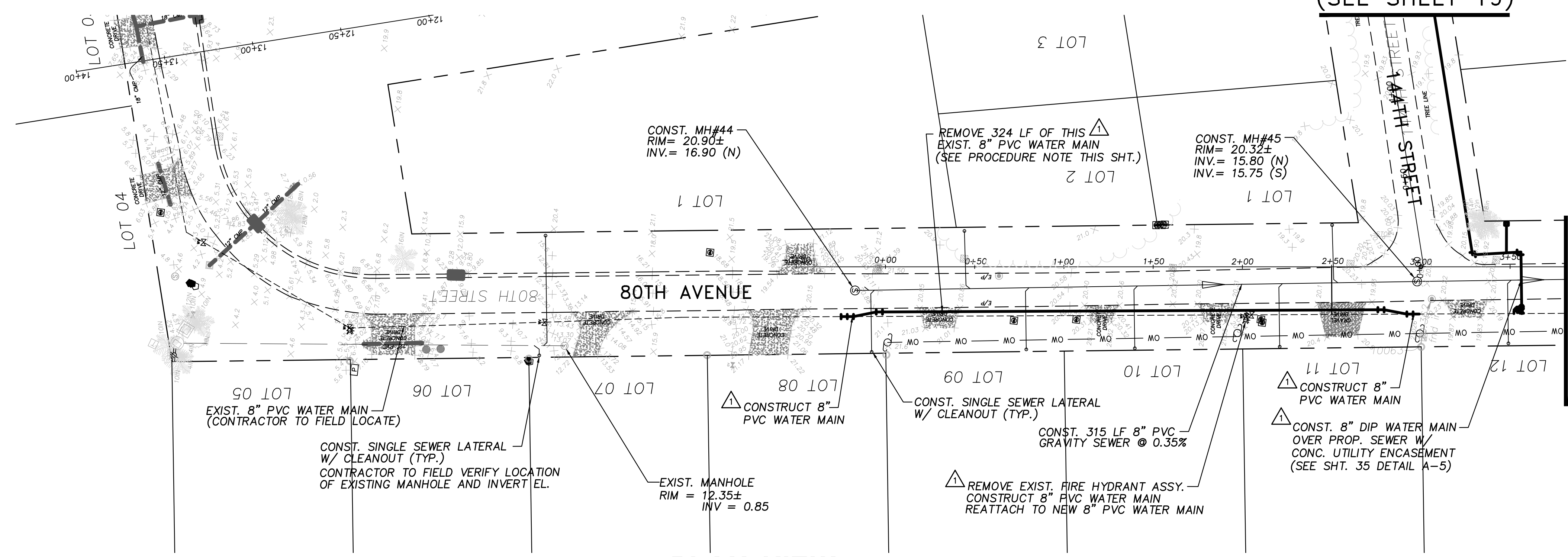
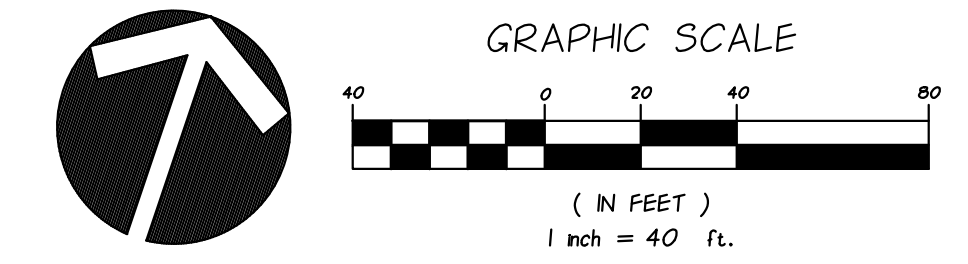
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**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
144TH STREET & 78TH AVENUE PLAN**

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SHEET	19 OF 37
DWG NO	1422
01/19/2021	
EARL H. MASTELLER, P.E. FL#26658	

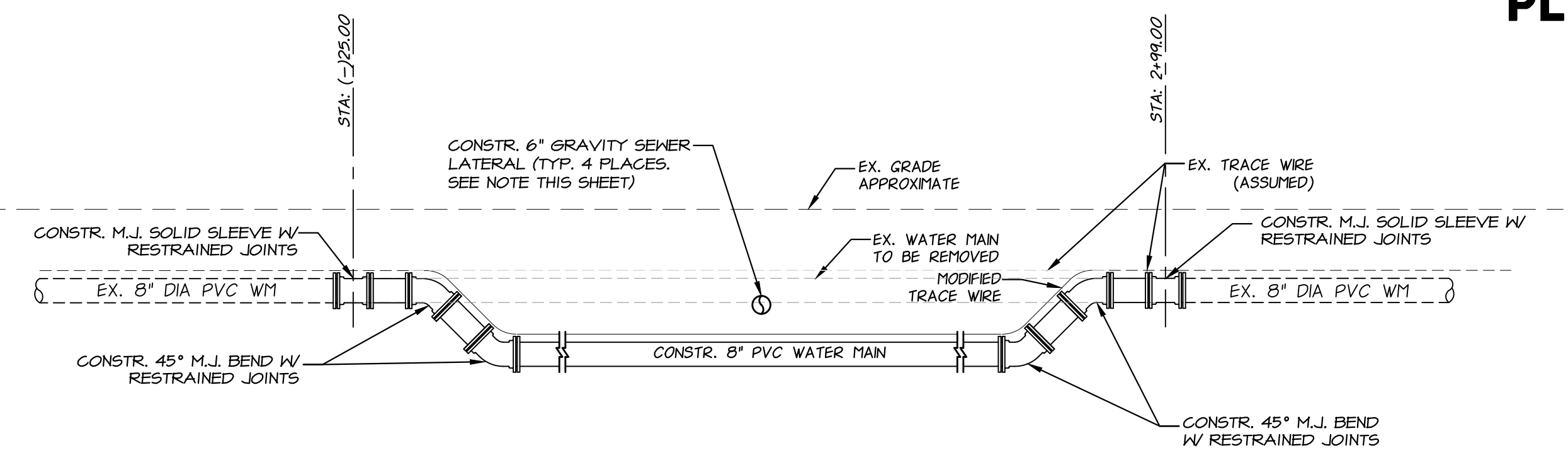
(SEE SHEET 19)



PLAN VIEW  
SCALE: 1"=40'

(SEE SHEET 20)

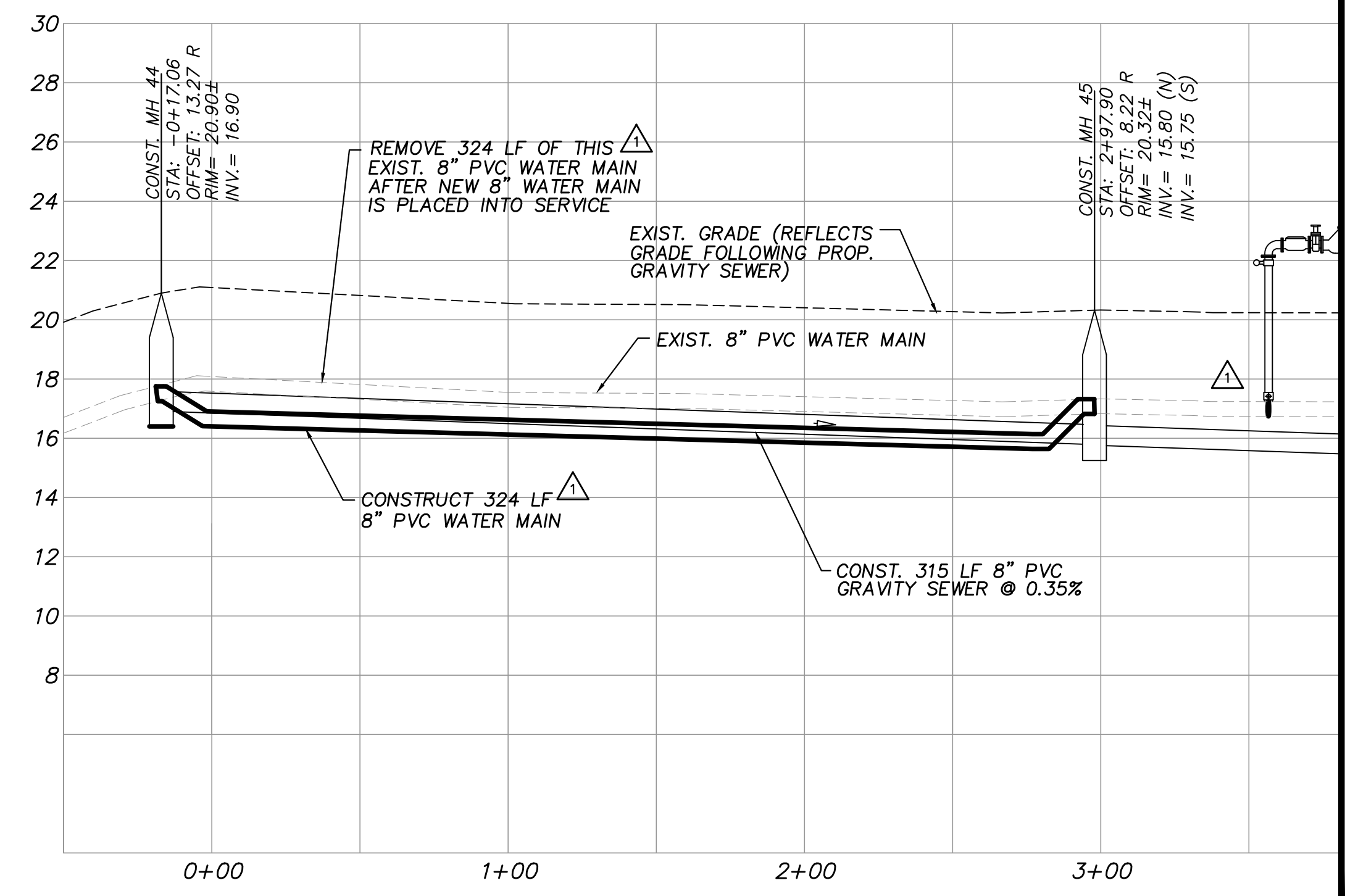
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WATERMAIN ADJUSTMENT DETAIL  
SCALE: N.T.S.

WATER MAIN ADJUSTMENT PROCEDURE:

- 1. THE CONTRACTOR SHALL NOTIFY THE COUNTY UTILITY DEPARTMENT 48 HOURS IN ADVANCE OF EACH WATER MAIN ADJUSTMENT.
2. THE CONTRACTOR SHALL COORDINATE WITH I.R.C. UTILITIES TO ISSUE A BOIL WATER NOTICE TO AFFECTED CUSTOMERS 72 HOURS IN ADVANCE OF TEMPORARY WATER SERVICE INTERRUPTION BY USE OF PUBLIC NOTICE DOOR TAGS.
3. THE CONTRACTOR SHALL ISSUE A BOIL WATER NOTICE IN MANNER ACCEPTABLE TO INDIAN RIVER COUNTY AND IN CONFORMANCE WITH APPLICABLE F.D.E.P. / D.O.H.S. REGULATIONS TO THE HOMES WHICH ARE DIRECTLY CONNECTED TO THE SECTION OF THE MAIN THAT IS DEPRESSURIZED DURING THE ADJUSTMENT CONSTRUCTION.
4. IN THE EVENT A MAIN WITH FIRE HYDRANT(S) WILL BE DE-PRESSURIZED FOR MORE THAN 24 HOURS, THE CONTRACTOR SHALL BAG THE FIRE HYDRANTS IF DIRECTED BY I.R.C. UTILITIES.
5. THE CONTRACTOR SHALL CONTACT SUNSHINE UNDERGROUND TO REQUEST LOCATES PRIOR TO ANY EXCAVATION.
6. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION SHOWN OR NOT SHOWN ON PLANS.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE OF TRAFFIC.
8. THE CONTRACTOR SHALL COORDINATE WITH INDIAN RIVER COUNTY UTILITIES DEPARTMENT TO LOCATE AND OPERATE EXISTING GATE VALVES AND CURB / CORPORATION STOPS INTO A SHUT POSITION TO ISOLATE UTILITY ADJUSTMENT SITE. VALVES SHALL ONLY BE OPERATED BY INDIAN RIVER COUNTY UTILITIES PERSONNEL.
9. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH INDIAN RIVER COUNTY UTILITY DEPARTMENT LATEST STANDARD DETAILS AND SPECIFICATIONS.
10. THE CONTRACTOR SHALL PROVIDE DEWATERING FOR REMOVAL OF EXCESS GROUNDWATER AND/OR POTABLE WATER TO ALLOW WORK TO BE COMPLETED UNDER DRY CONDITIONS.
11. CONTRACTOR IS TO PLACE ONE 20 LF LENGTH OF PIPE CENTERED AT THE PROPOSED SEWER CROSSING.
12. CONTRACTOR TO USE FITTINGS AS REQUIRED TO CLEAR EXISTING AND PROPOSED CONFLICT TO CREATE REQUIRED MIN VERTICAL CLEARANCE.
13. THE WATER MAIN ADJUSTMENT ASSEMBLY SHALL BE PRESSURE TESTED AND CHLORINATED, PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL ENSURE JOINTS ARE RESTRAINED PRIOR TO CUTTING THE MAIN. ONCE THE EXISTING MAIN HAS BEEN CUT & REMOVED, THE CONTRACTOR SHALL IMMEDIATELY INSTALL THE WATER MAIN ADJUSTMENT W/ RESTRAINED JOINTS. THE CONTRACTOR IS TO HAVE INDIAN RIVER COUNTY UTILITIES OPERATIONS PERSONNEL OPEN THE CLOSED VALVES TO REFILL THE ISOLATED WATER MAIN W/ POTABLE WATER.
15. THE CONTRACTOR WILL BE REQUIRED TO PRESSURE TEST ALL NEW AND EXISTING PIPING IN THE DEPRESSURIZED AREA. THE CONTRACTOR SHALL COORDINATE WITH INDIAN RIVER COUNTY UTILITIES DEPARTMENT TO HAVE THE COUNTY CLOSE ALL CURB STOPS AND/OR CORPORATION STOPS IN THE DEPRESSURIZED AREA TO INSURE THE HIGH PRESSURE REQUIRED FOR TESTING DOES NOT PASS THE METER ASSEMBLY AND INTO THE CUSTOMERS HOMES. ONCE A SUCCESSFUL PRESSURE TEST AND DISINFECTION IS COMPLETED, THE CONTRACTOR SHALL HAVE INDIAN RIVER COUNTY UTILITIES DEPARTMENT RE-ESTABLISH SERVICE TO ALL AFFECTED CUSTOMERS. VALVES, CURB STOPS AND/OR CORPORATION STOPS SHALL ONLY BE OPERATED BY INDIAN RIVER COUNTY UTILITIES PERSONNEL.
16. THE CONTRACTOR SHALL DISINFECT THE AFFECTED WATER MAINS FOLLOWING THE REQUIREMENTS SET FORTH BY THE F.D.E.P. (SEE SHEET 2 "62-555.340 DISINFECTION AND BACTERIOLOGICAL EVALUATION OF PUBLIC WATER SYSTEM COMPONENTS") THE BOIL WATER NOTICE SHALL NOT BE TERMINATED UNTIL SUCH TIME THAT BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED.
17. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING ALL NECESSARY MATERIALS ARE AT EACH WATER MAIN ADJUSTMENT PRIOR TO SHUTTING DOWN AND CUTTING EXISTING WATER MAIN. ALL WORK SHALL BE DONE IN A TIMELY MANNER IN ORDER TO MINIMIZE DOWN TIME.
18. THE CONTRACTOR SHALL REMOVE THE SECTION OF POTABLE WATER TO BE ADJUSTED AND DISPOSE OF THE MATERIALS IN A PROPER MANNER.
19. THE CONTRACTOR SHALL RESTORE THE POTABLE WATER MAIN ADJUSTMENT DISTURBED AREAS IN A MANNER ACCEPTABLE TO THE INDIAN RIVER COUNTY PUBLIC WORKS DEPARTMENT.
20. THE CONTRACTOR'S SURVEYOR SHALL PROVIDE, ON STATE PLANE COORDINATES, AN AS-BUILT SURVEY ILLUSTRATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL FITTINGS IN THE ADJUSTMENT ASSEMBLY. VERTICAL LOCATIONS SHALL BE PROVIDED ON THE SAME DATUM AS THESE PLANS. CLEARANCE / TOP OF PIPE ELEVATION SHALL BE AS SPECIFIED ON THE PLANS. ENGINEER RESERVES THE RIGHT TO HAVE CONTRACTOR EXCAVATE AND CHECK TOP OF PIPE AND ELEVATIONS TO SEE IF THEY CONFORM TO THE AFOREMENTIONED REQUIREMENTS, AT NO COST TO THE OWNER.



PROFILE VIEW  
HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

(SEE SHEET 20)

EXISTING UTILITY LOCATION NOTES  
THE LOCATION OF THE HORIZONTAL ALIGNMENT OF THE EXISTING POTABLE WATER MAIN ALONG OLD DIXIE HWY IS SHOWN ON THESE PLANS BASED ON FIELD SURVEYS OF VALVES, HYDRANTS, MARKERS, AND INFORMATION PROVIDED BY THE INDIAN RIVER COUNTY UTILITY DEPARTMENT. THE DEPTH OF THE WATER MAIN IS UNKNOWN BUT IS CUSTOMARILY CONSTRUCTED WITH 36" TO 42" OF COVER AS A GUIDELINE.

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APPENDUM NO. 3

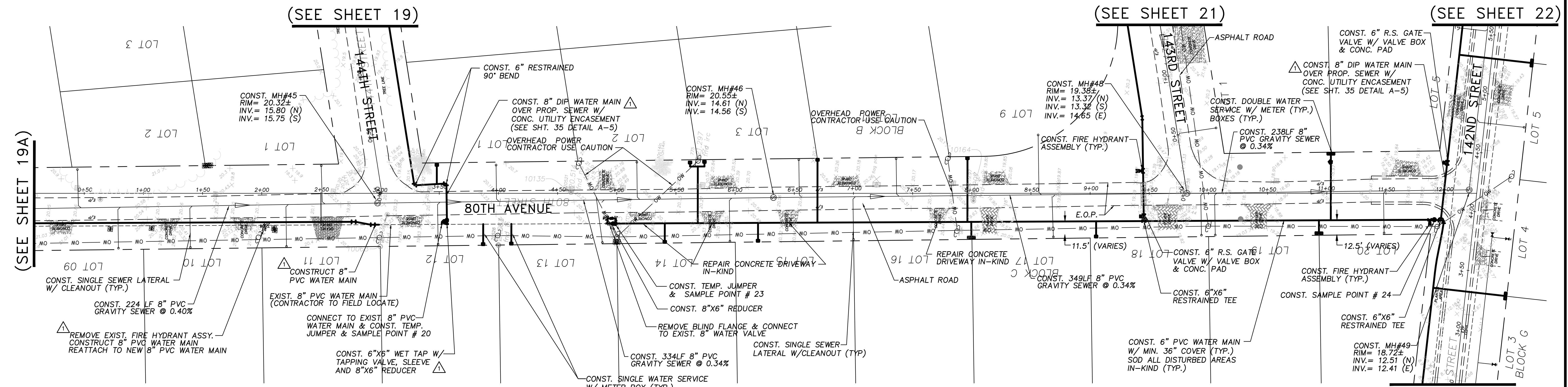
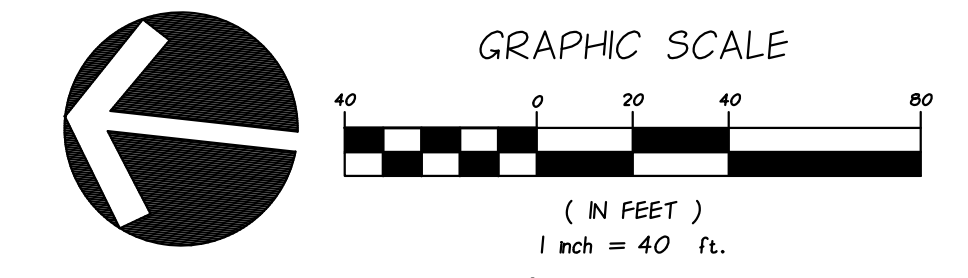
Table with 3 columns: NO., DATE, DESCRIPTION, and initials (JRM/EHM, DR/APP). Includes a revision entry for 01/15/21.

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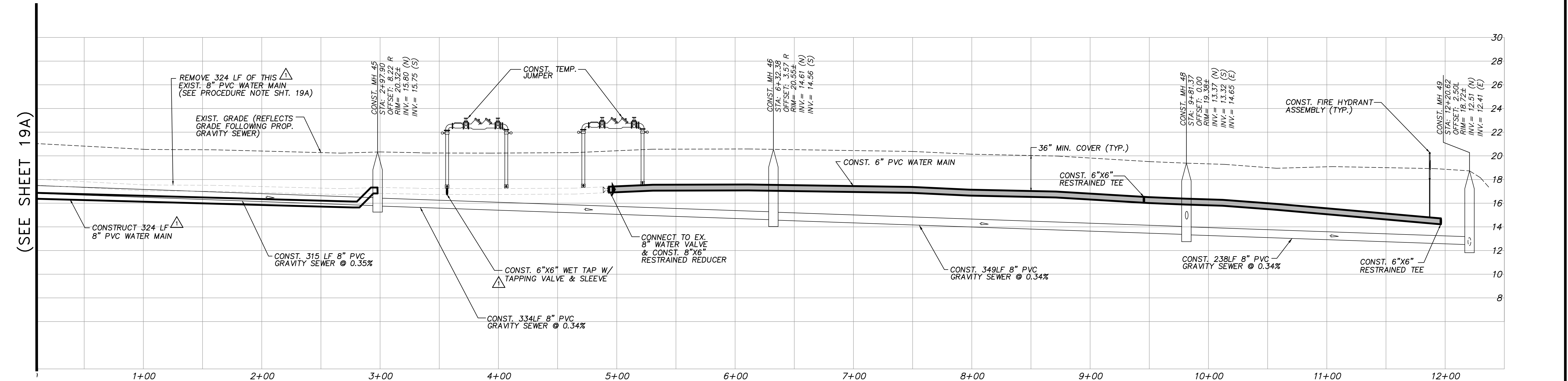
INDIAN RIVER COUNTY NORTH COUNTY WATER & SEWER SYSTEM PHASE 2 80TH AVE PLAN & PROFILES

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Table with columns for DRAWN (SCG), DESIGNED (EHM), CHECKED (EHM), DATE (10/22/2018), SCALE (AS SHOWN), SHEET (19A of 37), and DWG NO (1422). Includes project name and date: EARL H. MASTELLER, P.E. FL#26658, 01/19/2021.



**PLAN VIEW**  
SCALE: 1"=40'



**PROFILE VIEW**  
HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

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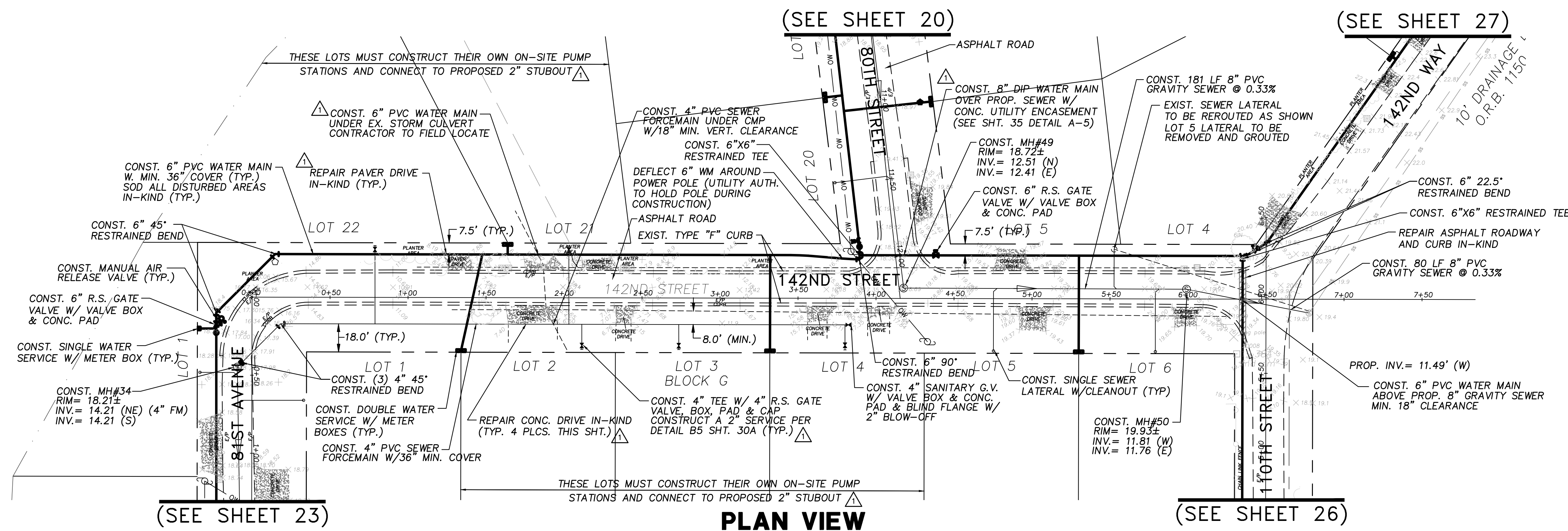
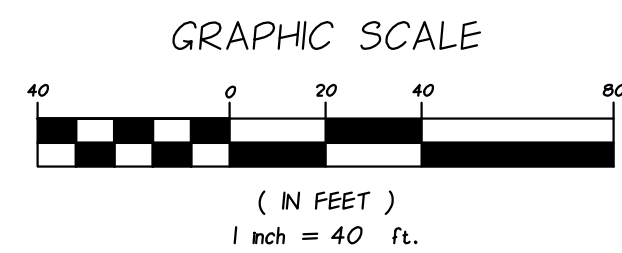
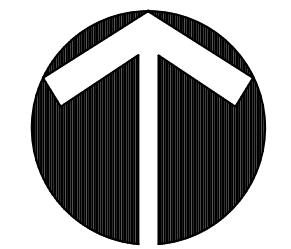
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**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
80TH STREET PLAN AND PROFILES**

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SCALE	AS SHOWN
SHEET	20 OF 37
DWG NO.	1422
01/19/2021	
EARL H. MASTELLER, P.E. FL#26658	

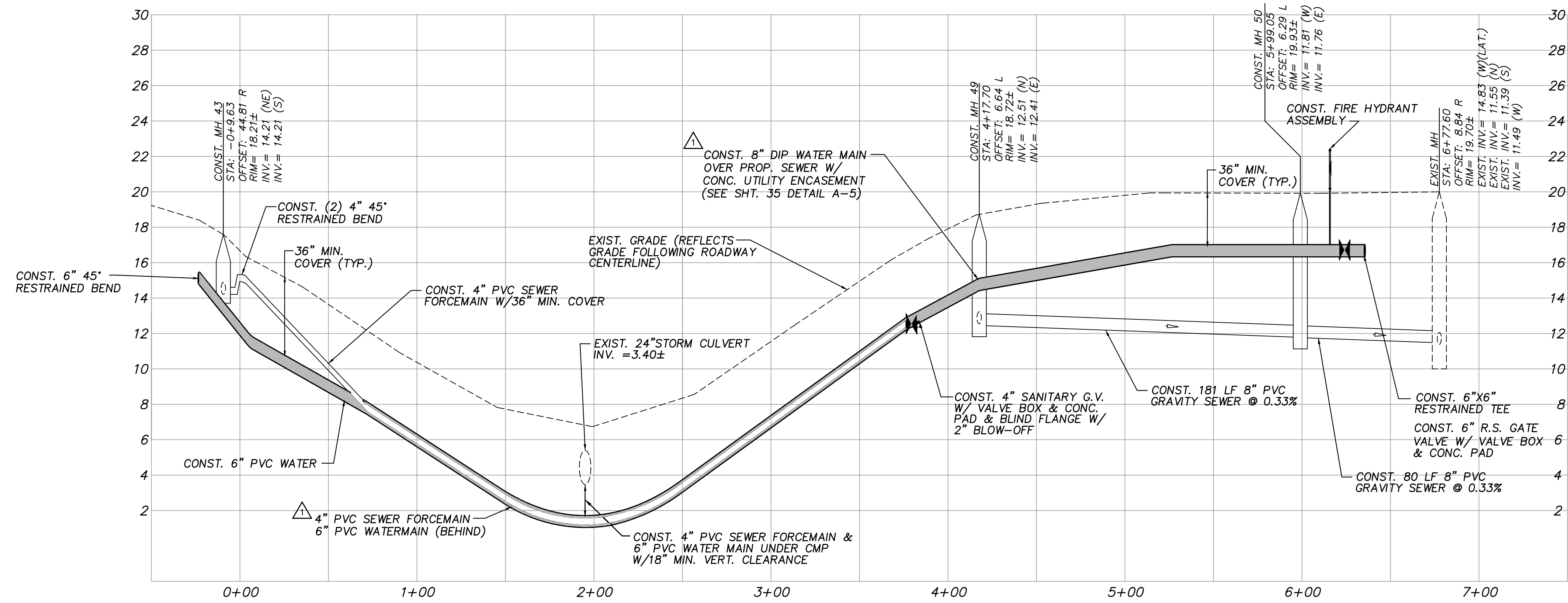


(SEE SHEET 23)

**PLAN VIEW**

SCALE: 1"=40'

(SEE SHEET 26)



**PROFILE VIEW**

HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

**NOTES:**  
MANHOLE 34 TO BE LINED (SEE SHEET 30A)

SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS  
PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH  
MINIMUM 12" CLEARANCE.  
ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT  
EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND  
RESTORE ROADWAY PER DETAILS SHEETS 30-33.  
ALL DISTURBED STRIPING AND SIGNAGE TO BE REPLACED. STRIPING  
TO BE THERMOPLASTIC CONFORMING TO F.D.O.T. STANDARD SPECIFICATIONS  
FOR ROAD AND BRIDGE CONSTRUCTION.

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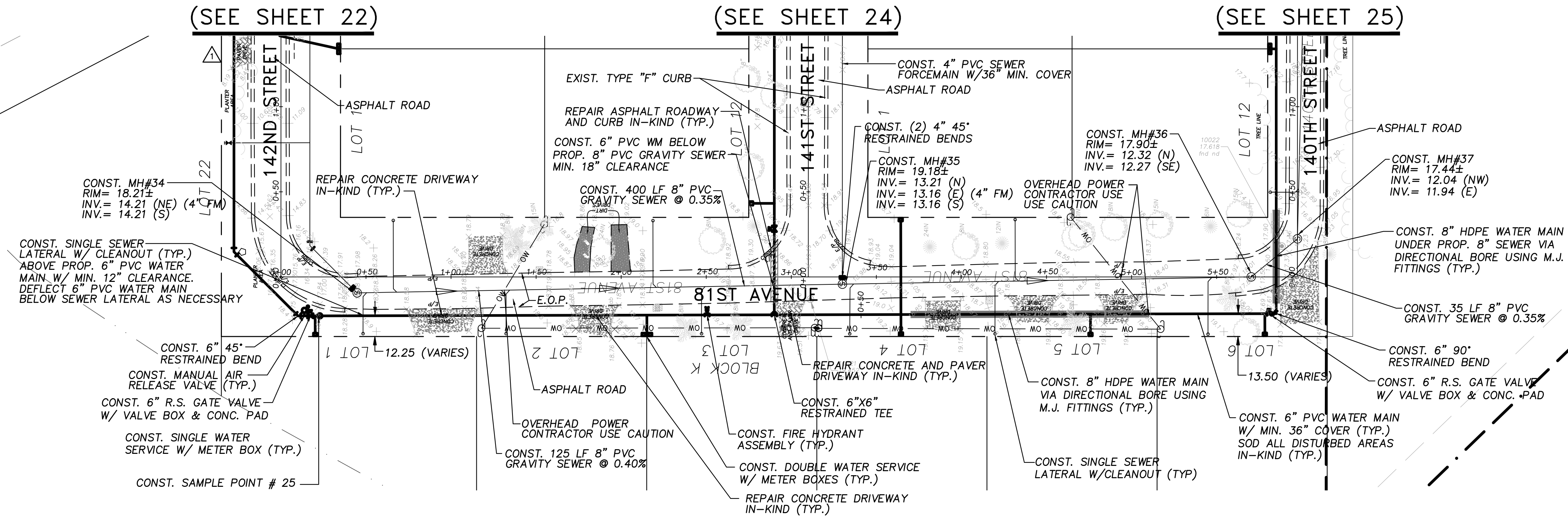
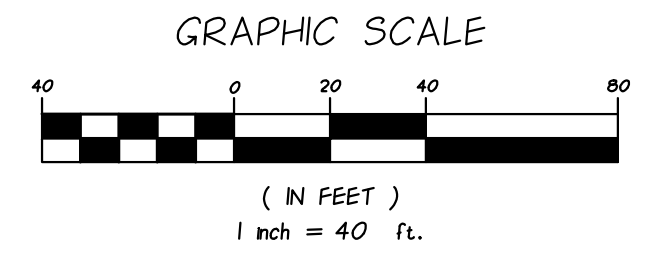
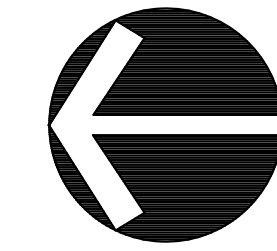
NO.	DATE	DESCRIPTION	DR/APP
1	01/15/21	REVISED PER ADDENDUM NO. 2 COMMENTS	JRM/EHM
REVISIONS			

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1655 27th STREET, SUITE #2, VERO BEACH, FLORIDA, 32960  
(772) 567-5300 / FAX (772) 794-1106  
CERTIFICATE OF AUTHORIZATION NUMBER 4204

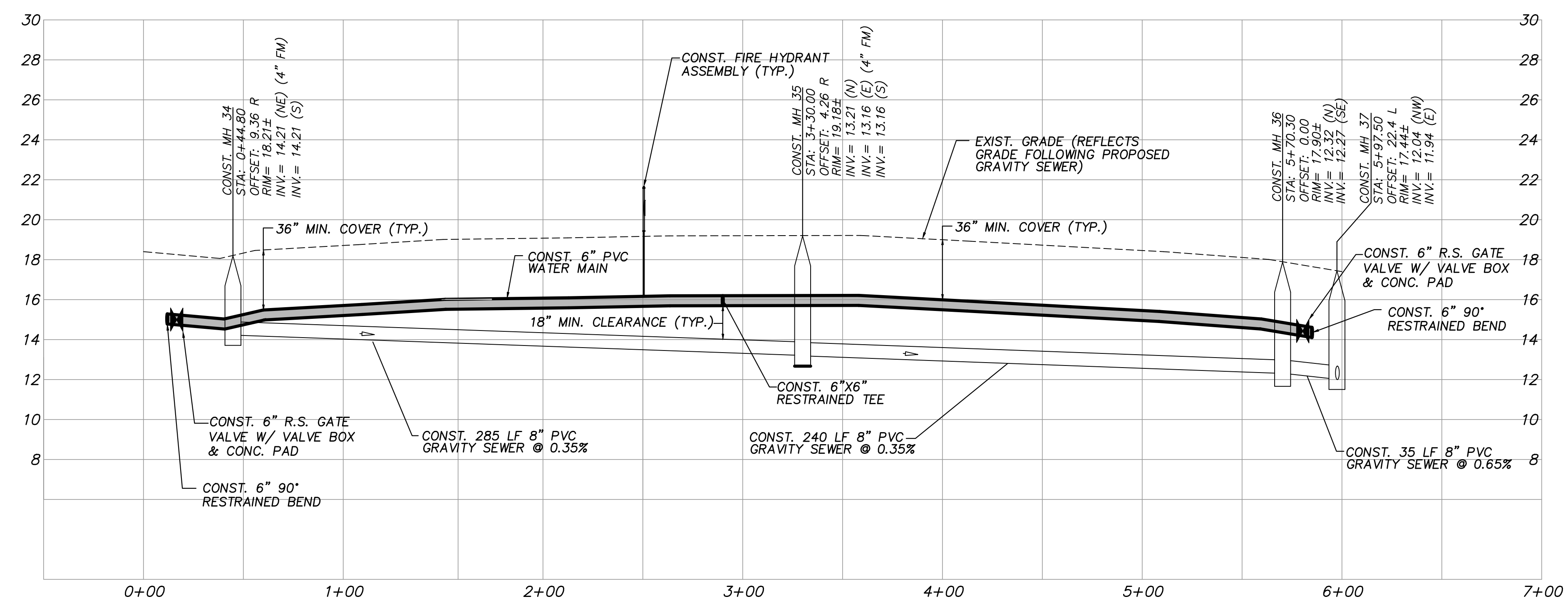
**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
142ND STREET PLAN AND PROFILES**

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DATE	10/22/2018
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SHEET	22 OF 37
DWG NO.	1422
01/19/2021	
EARL H. MASTELLER, P.E. FL#26658	



PLAN VIEW  
SCALE: 1"=40'



PROFILE VIEW  
HORIZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

NOTES:  
MANHOLES 34, 35, 36, & 37 TO BE LINED (SEE SHEET 30A)  
SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS  
PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH MINIMUM 12" CLEARANCE.  
ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND RESTORE ROADWAY PER DETAILS SHEETS 30-33.  
ALL DISTURBED STRIPING AND SIGNAGE TO BE REPLACED. STRIPING TO BE THERMOPLASTIC CONFORMING TO F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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ADDENDUM NO. 3

Table with 3 columns: NO., DATE, DESCRIPTION, DR/APP. Includes a row for 'REVISIONS'.

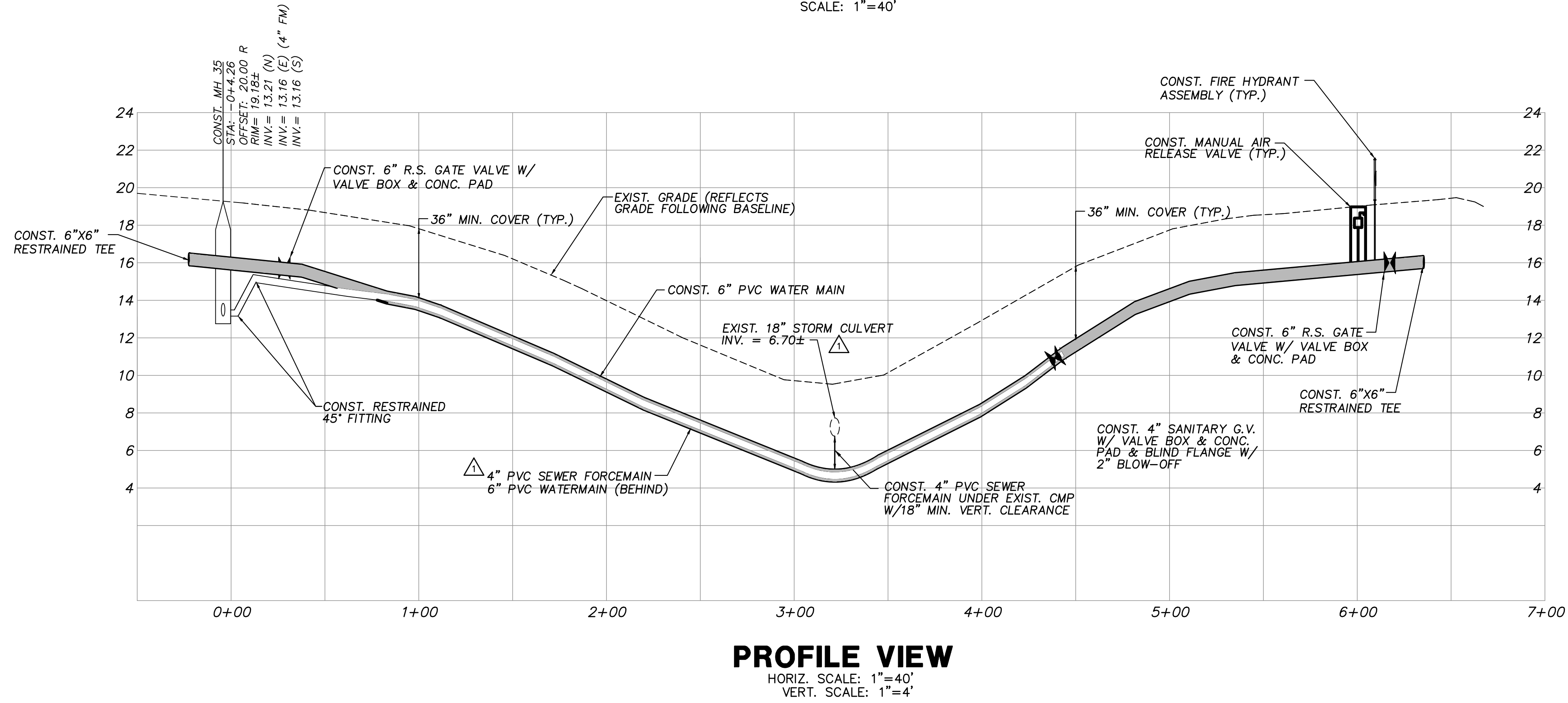
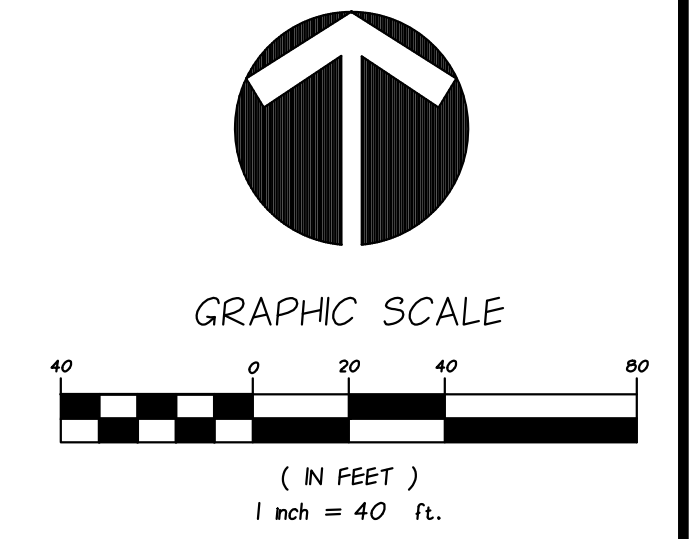
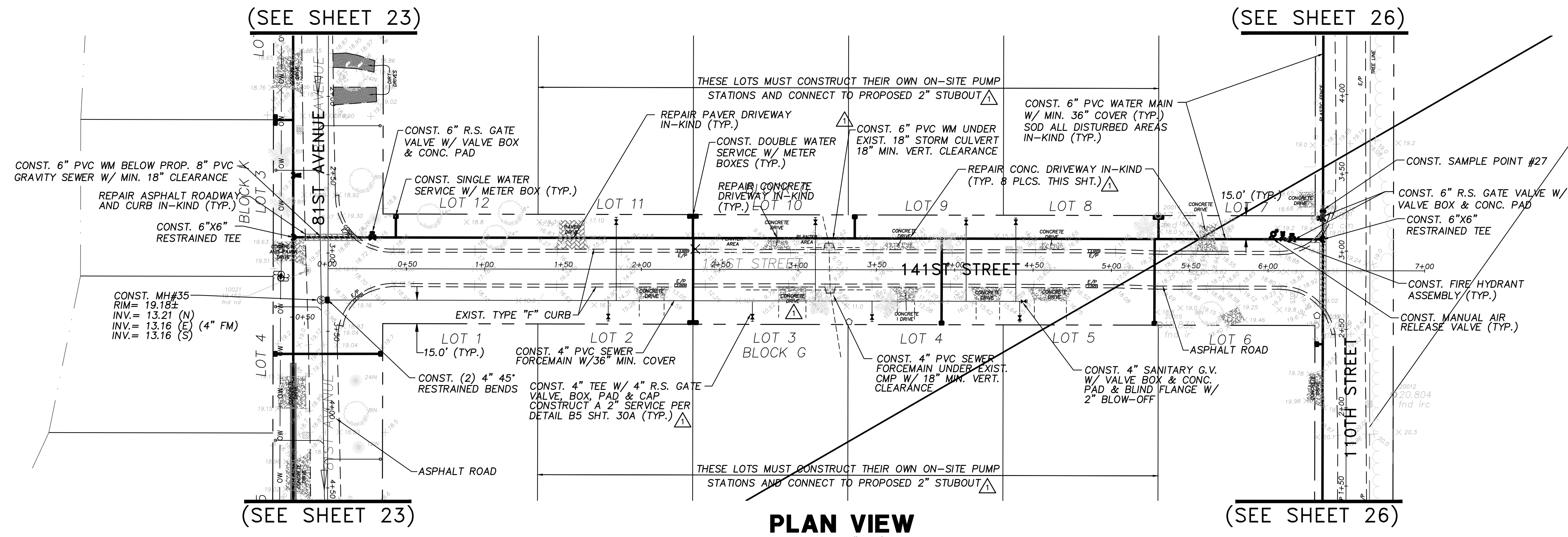
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INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
81ST AVENUE PLAN AND PROFILES

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**NOTES:**

MANHOLE 35 TO BE LINED (SEE SHEET 30A) ▲

SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS. PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH MINIMUM 12" CLEARANCE.

ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND RESTORE ROADWAY PER DETAILS SHEETS 30-33.

ALL DISTURBED STRIPING AND SIGNAGE TO BE REPLACED. STRIPING TO BE THERMOPLASTIC CONFORMING TO F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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ADDENDUM NO. 3

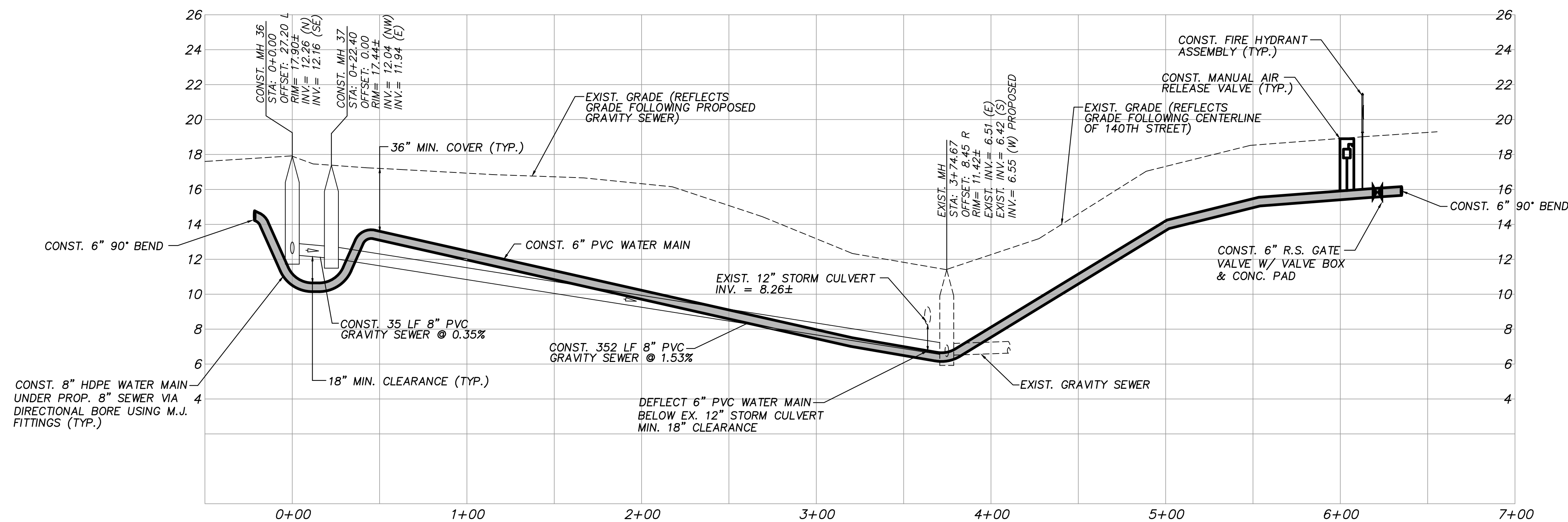
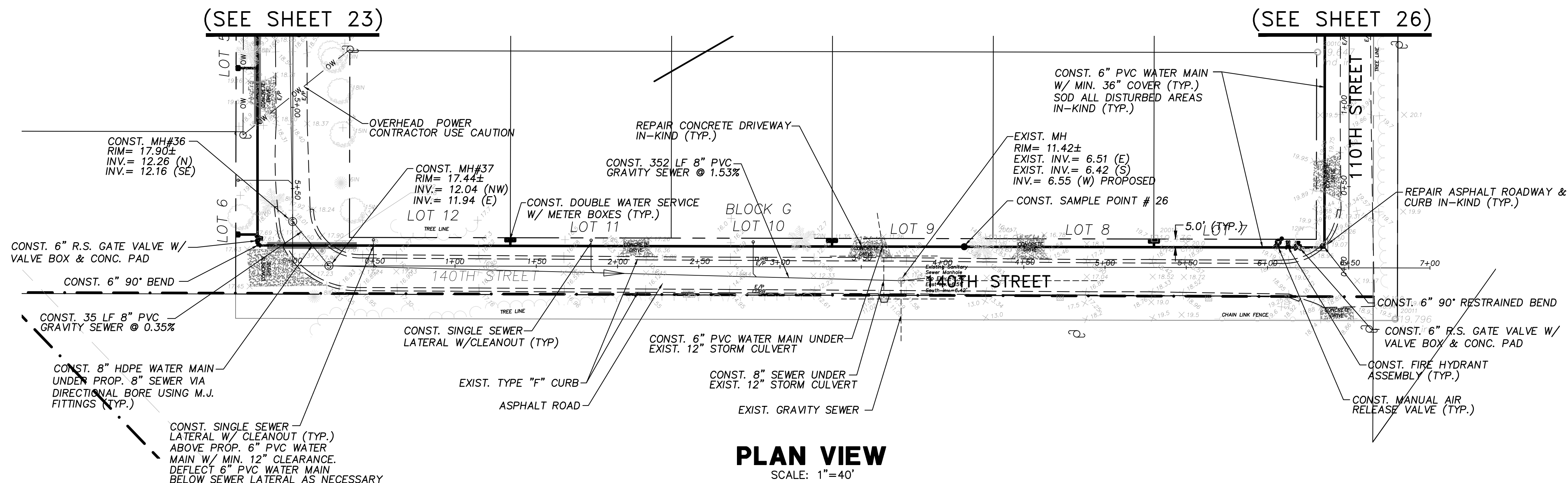
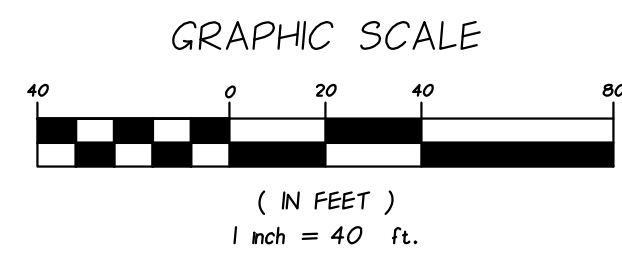
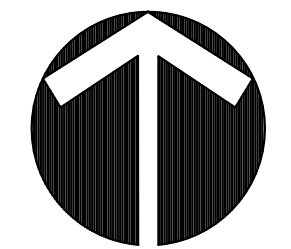
NO.	DATE	DESCRIPTION	DR/APP
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**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
141ST STREET PLAN AND PROFILES**

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DATE	10/22/2018
SCALE	AS SHOWN
SHEET	24 of 37
DWG NO	1422
01/19/2021	
EARL H. MASTELLER, P.E. FL#26658	



**NOTES:**

MANHOLES 36, 37, & NEXT THREE (3) DOWNSTREAM EXISTING MANHOLES TO BE LINED DOWNSTREAM MANHOLES REQUIRING LINING TO BE SPECIFIED IN THE FIELD BY IRC/DUS (SEE SHEET 30A)

SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH MINIMUM 12" CLEARANCE.

ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND RESTORE ROADWAY PER DETAILS SHEETS 30-33.

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ADDENDUM NO. 3

NO.	DATE	DESCRIPTION	DR/APP
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CERTIFICATE OF AUTHORIZATION NUMBER 4204

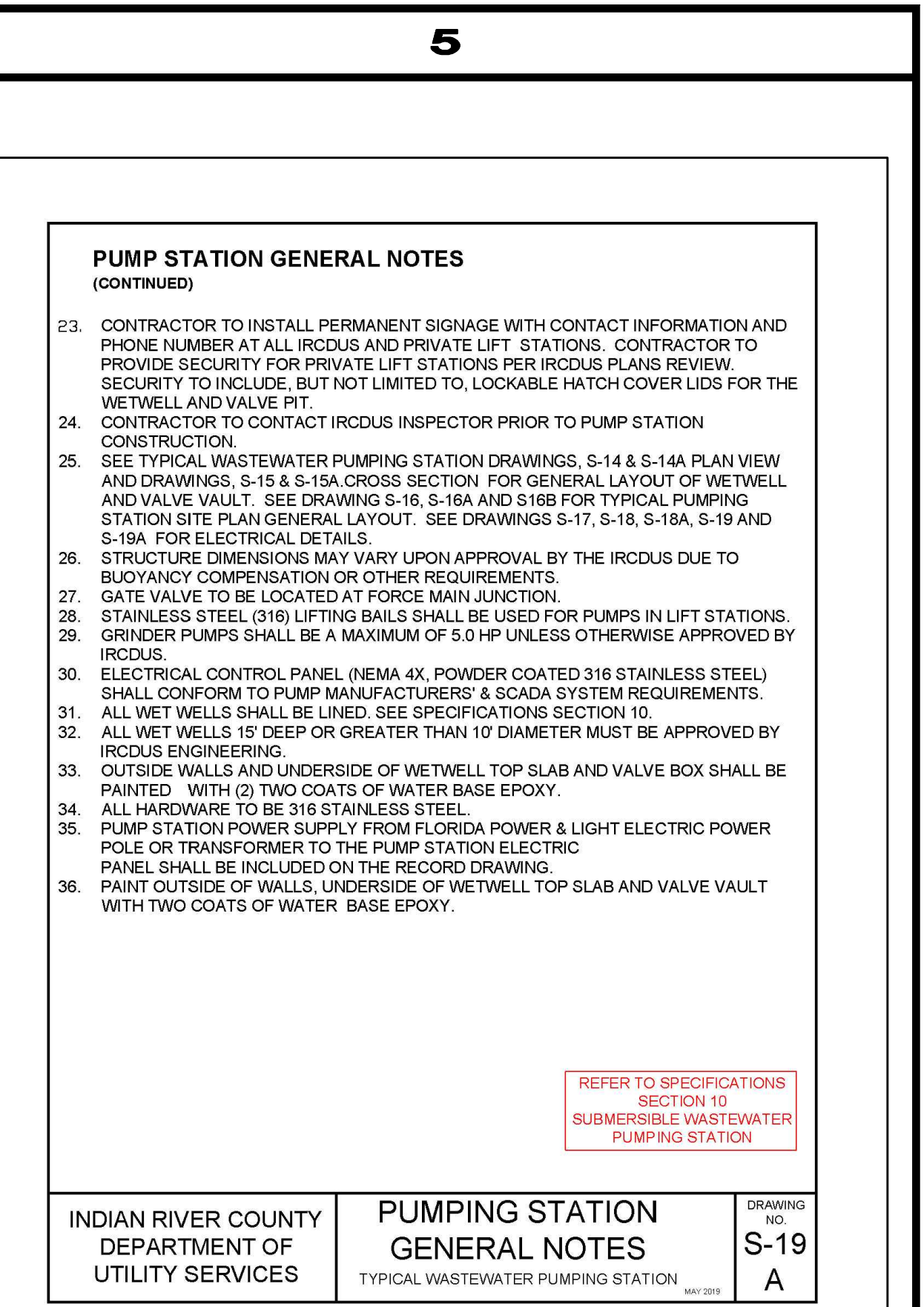
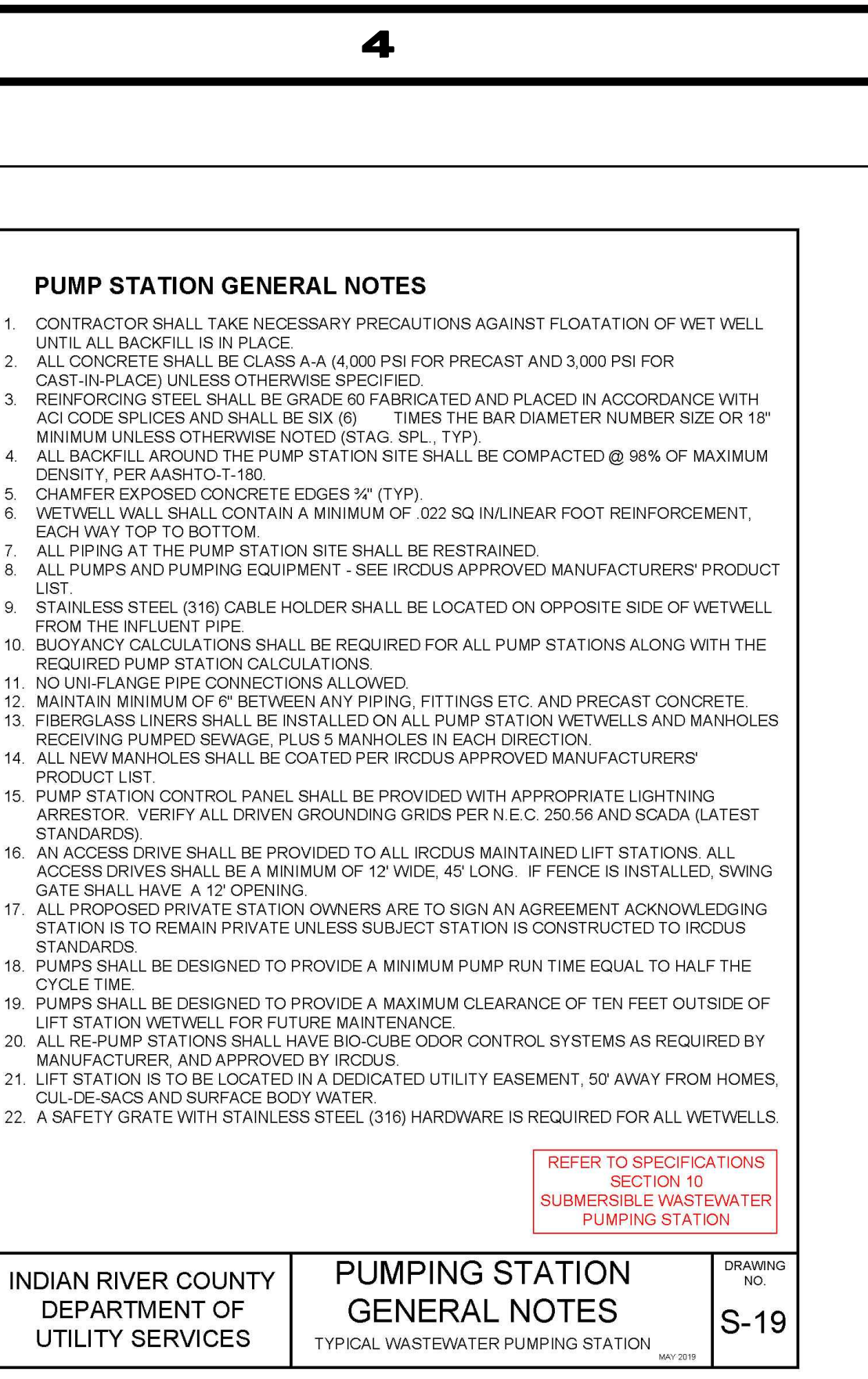
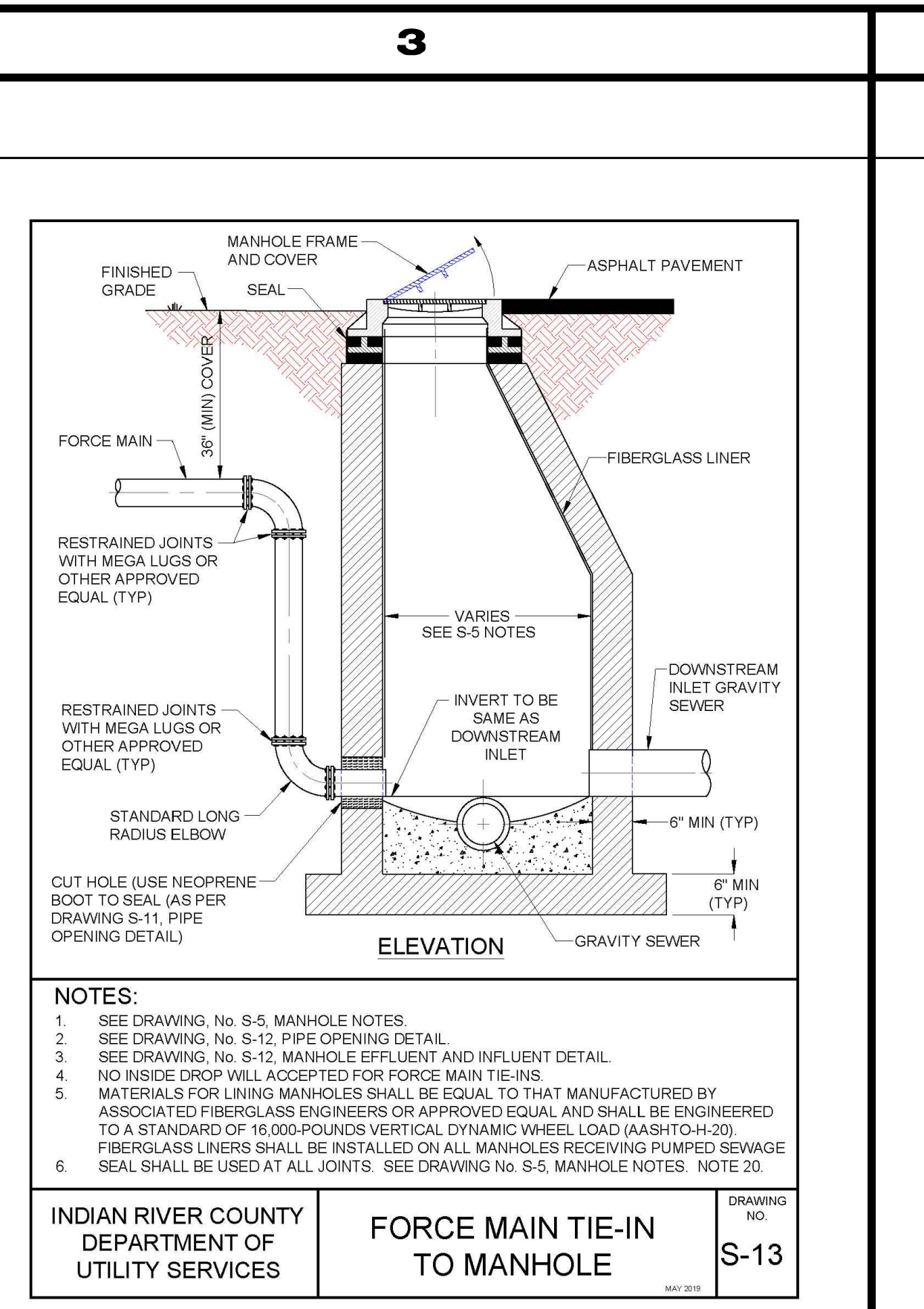
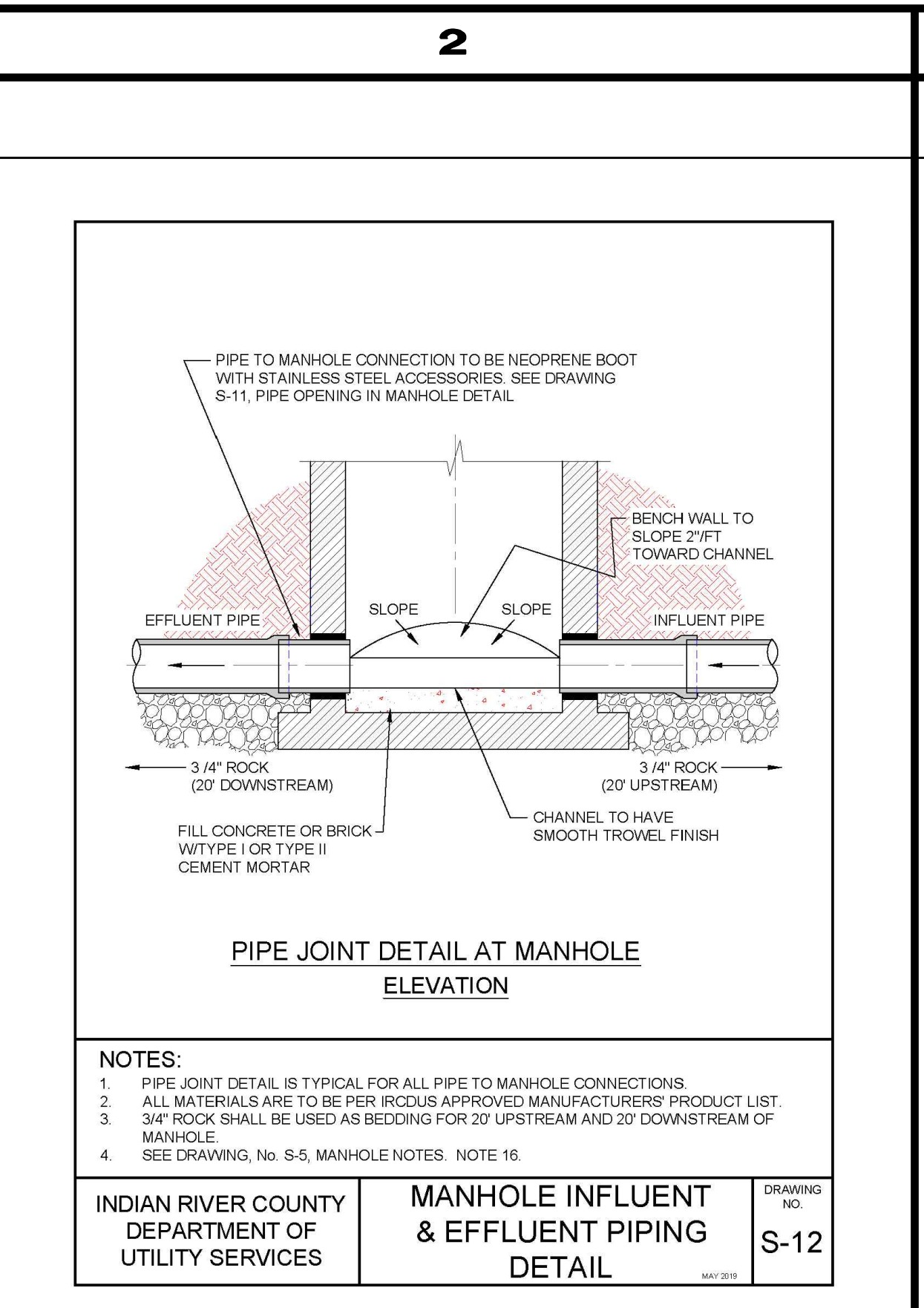
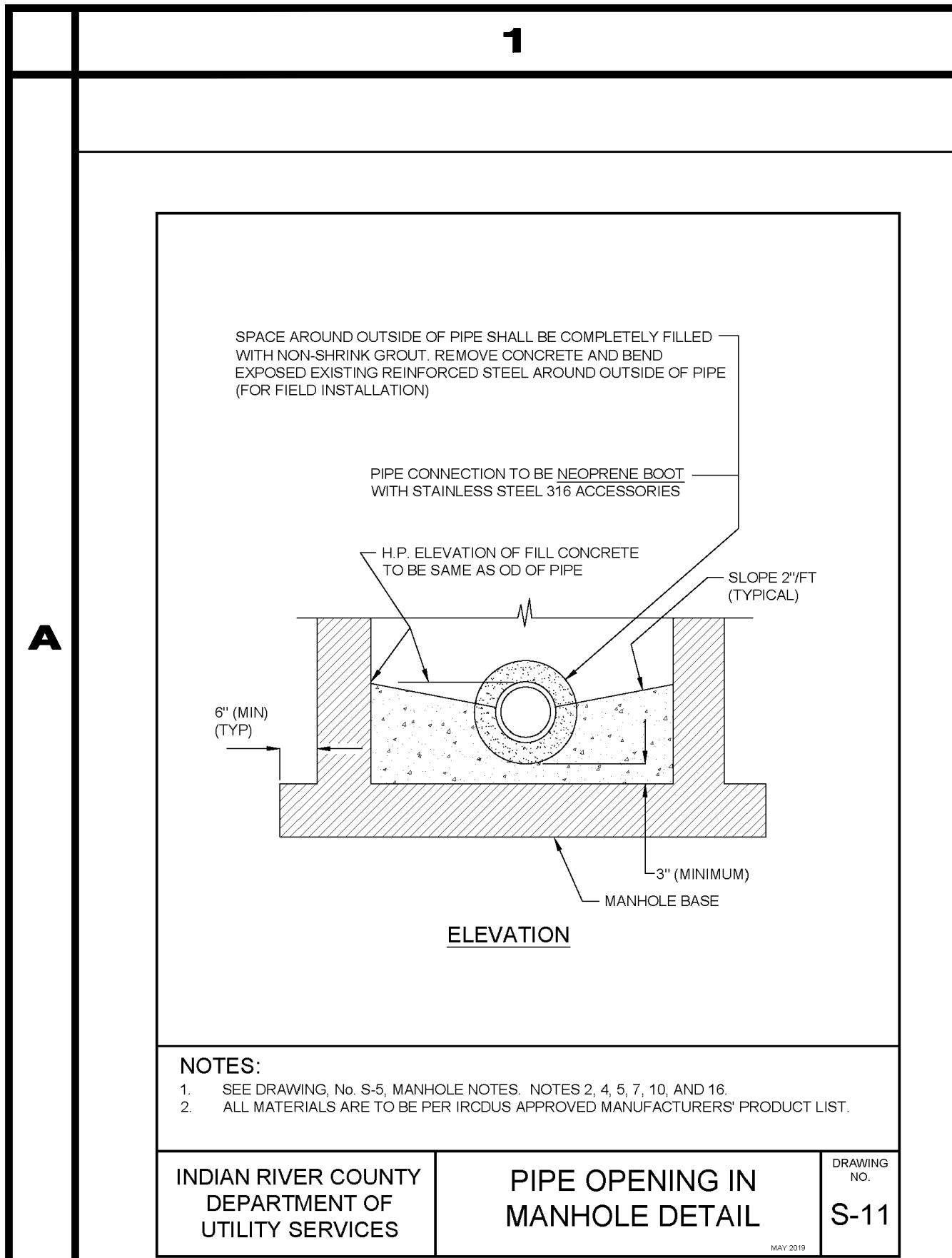
**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
140TH STREET PLAN AND PROFILES**

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SHEET	25 OF 37
DWG NO	1422

01/19/2021



**GREEN MONSTER™ LINER SYSTEM**

111.1. GENERAL

The work shall include the furnishing and installation of an interior protective lining system consisting of a Green Monster™ liner, a concrete support, and a neoprene boot. The system shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature. The system shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature. The system shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

111.2. MATERIALS AND EQUIPMENT

All materials used within the Green Monster™ system shall be highly resistant to hydrogen sulfide gas and sulfuric acid. The materials shall be as follows:

- 1. Green Monster™ Liner: 316 Stainless Steel, 3/16 inch thick.
- 2. Concrete Support: 316 Stainless Steel, 3/16 inch thick.
- 3. Neoprene Boot: 316 Stainless Steel, 3/16 inch thick.
- 4. Control Panel: 316 Stainless Steel, 3/16 inch thick.
- 5. Motor: 316 Stainless Steel, 3/16 inch thick.
- 6. Alarm Strobe: 316 Stainless Steel, 3/16 inch thick.
- 7. Meter Can: 316 Stainless Steel, 3/16 inch thick.
- 8. Service Disconnect: 316 Stainless Steel, 3/16 inch thick.
- 9. Control Panel: 316 Stainless Steel, 3/16 inch thick.
- 10. Generator Receptacle: 316 Stainless Steel, 3/16 inch thick.
- 11. Motor Starter: 316 Stainless Steel, 3/16 inch thick.
- 12. Alarm Horn: 316 Stainless Steel, 3/16 inch thick.
- 13. Weather Proof Black Box: 316 Stainless Steel, 3/16 inch thick.
- 14. Duplex Pumping Station: 316 Stainless Steel, 3/16 inch thick.
- 15. Control Panel Back Panel Layout: 316 Stainless Steel, 3/16 inch thick.
- 16. Force Main Service for Typical Private Pumping Station: 316 Stainless Steel, 3/16 inch thick.

111.3. SURFACE PREPARATION

1. Preparation will begin by excavating the surface adjacent to the manhole to a depth of 4 feet below the existing manhole rim. The excavation shall be made with a minimum of 2 feet of soil.

2. After excavating to the required depth, the surface area will be excavated to a depth of 4 feet below the existing manhole rim. The excavation shall be made with a minimum of 2 feet of soil.

3. All voids and holes will be removed from the work site using such methods as are necessary to provide a smooth, level surface.

4. A neoprene boot shall be installed around the manhole opening. The boot shall be made of a material that is resistant to hydrogen sulfide gas and sulfuric acid. The boot shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

5. The concrete support shall be installed around the manhole opening. The support shall be made of a material that is resistant to hydrogen sulfide gas and sulfuric acid. The support shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

6. The Green Monster™ liner shall be installed around the manhole opening. The liner shall be made of a material that is resistant to hydrogen sulfide gas and sulfuric acid. The liner shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

111.4. MATERIAL INSTALLATION

1. The Green Monster™ liner shall be installed around the manhole opening. The liner shall be made of a material that is resistant to hydrogen sulfide gas and sulfuric acid. The liner shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

2. The concrete support shall be installed around the manhole opening. The support shall be made of a material that is resistant to hydrogen sulfide gas and sulfuric acid. The support shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

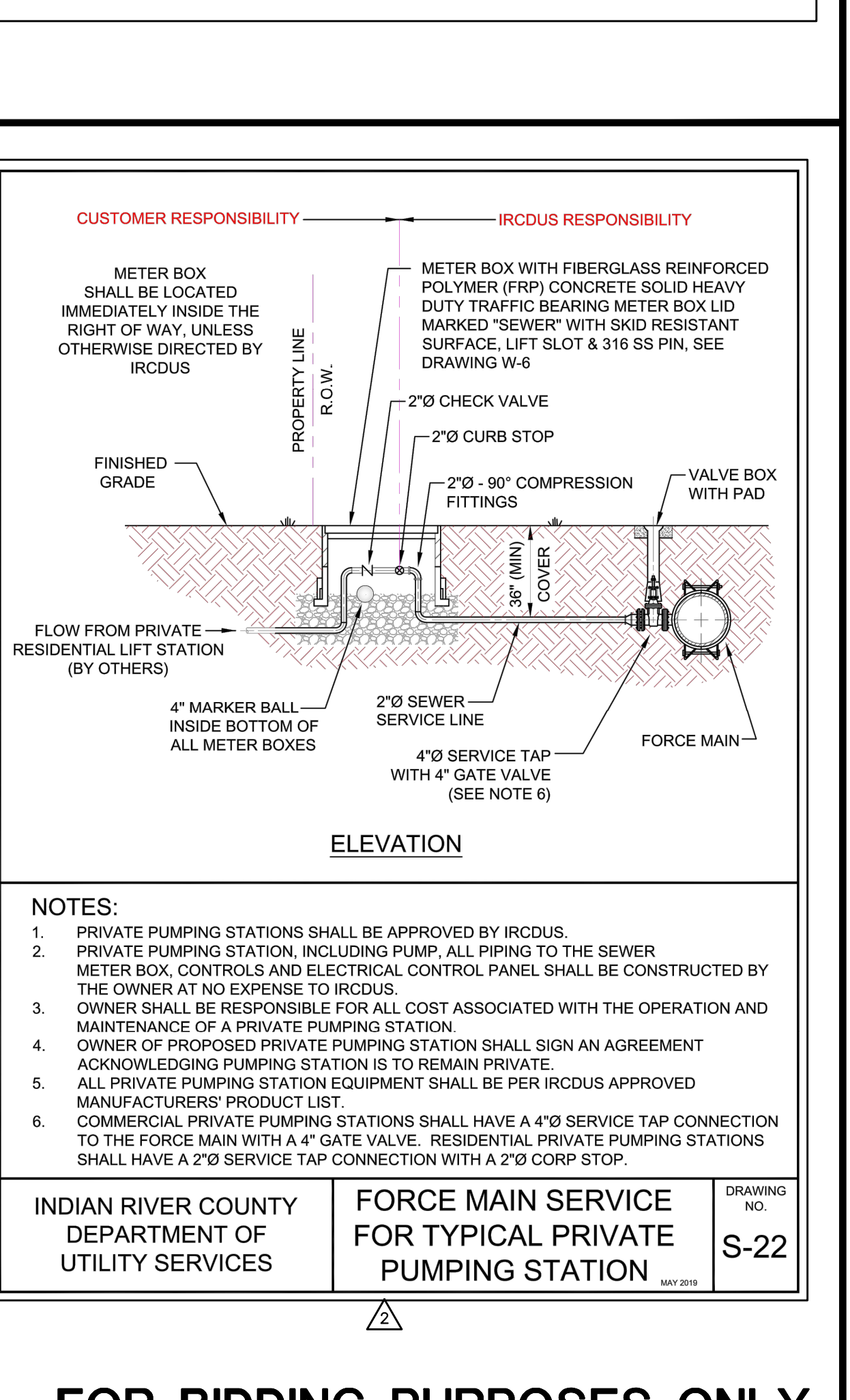
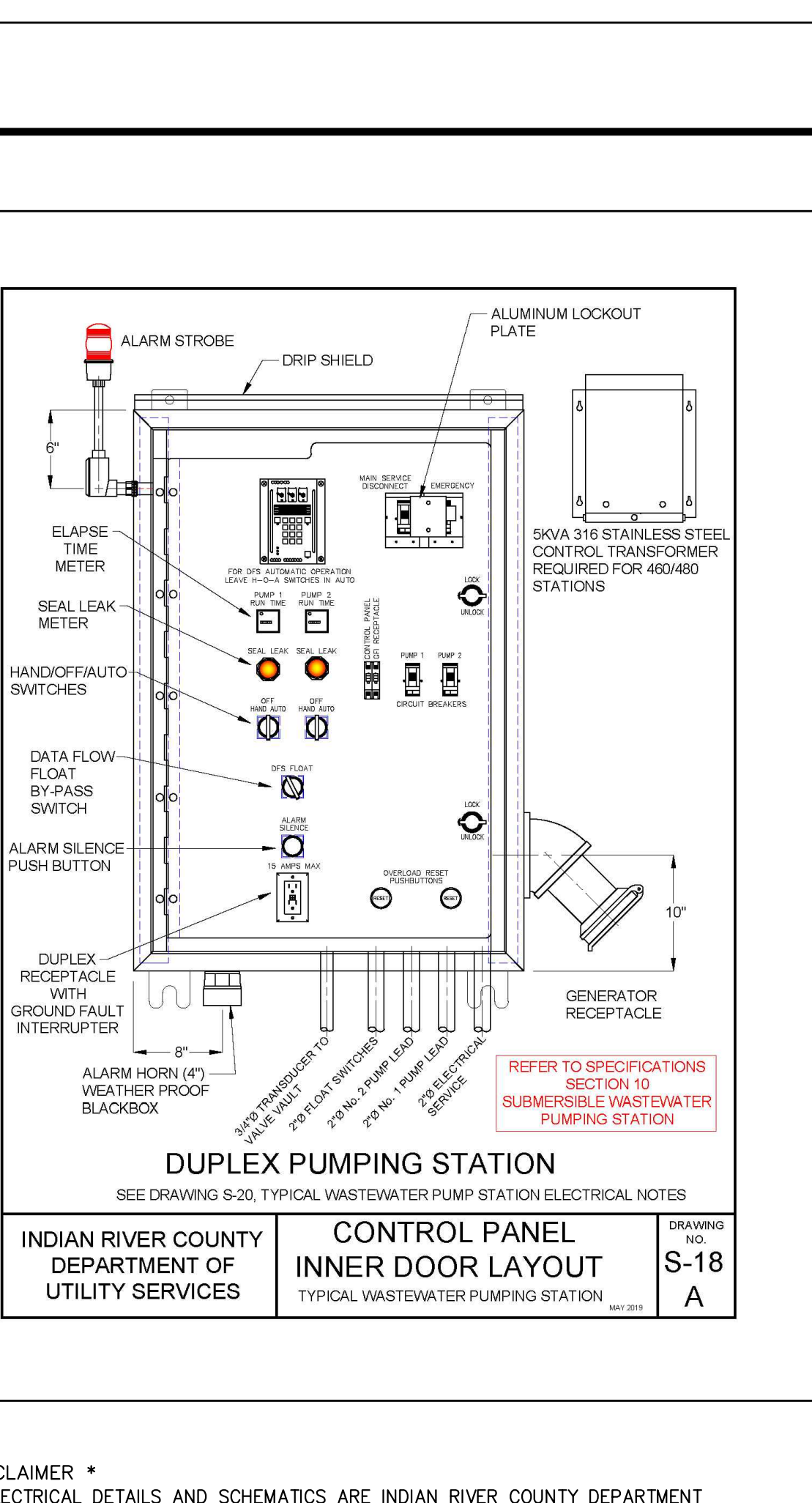
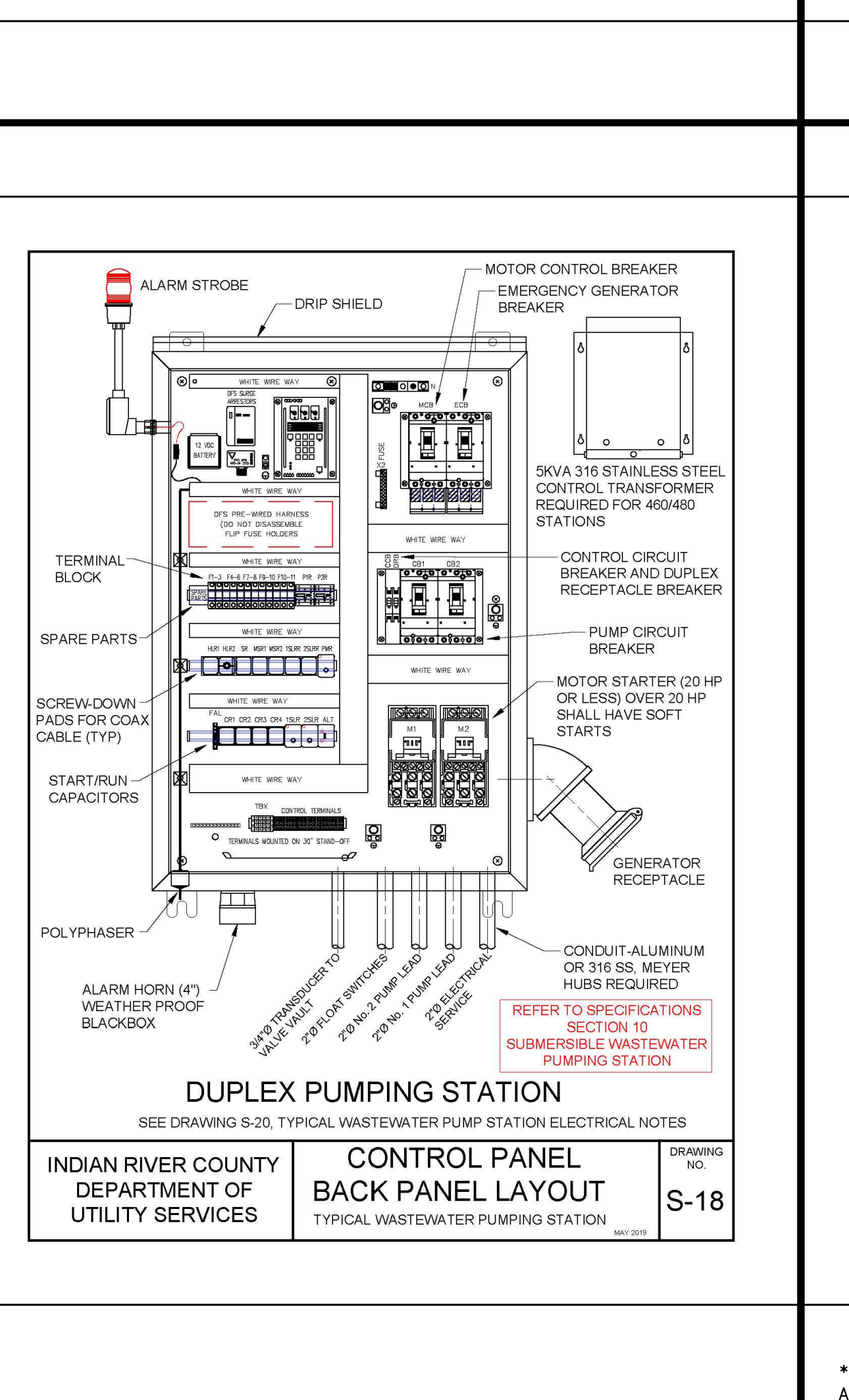
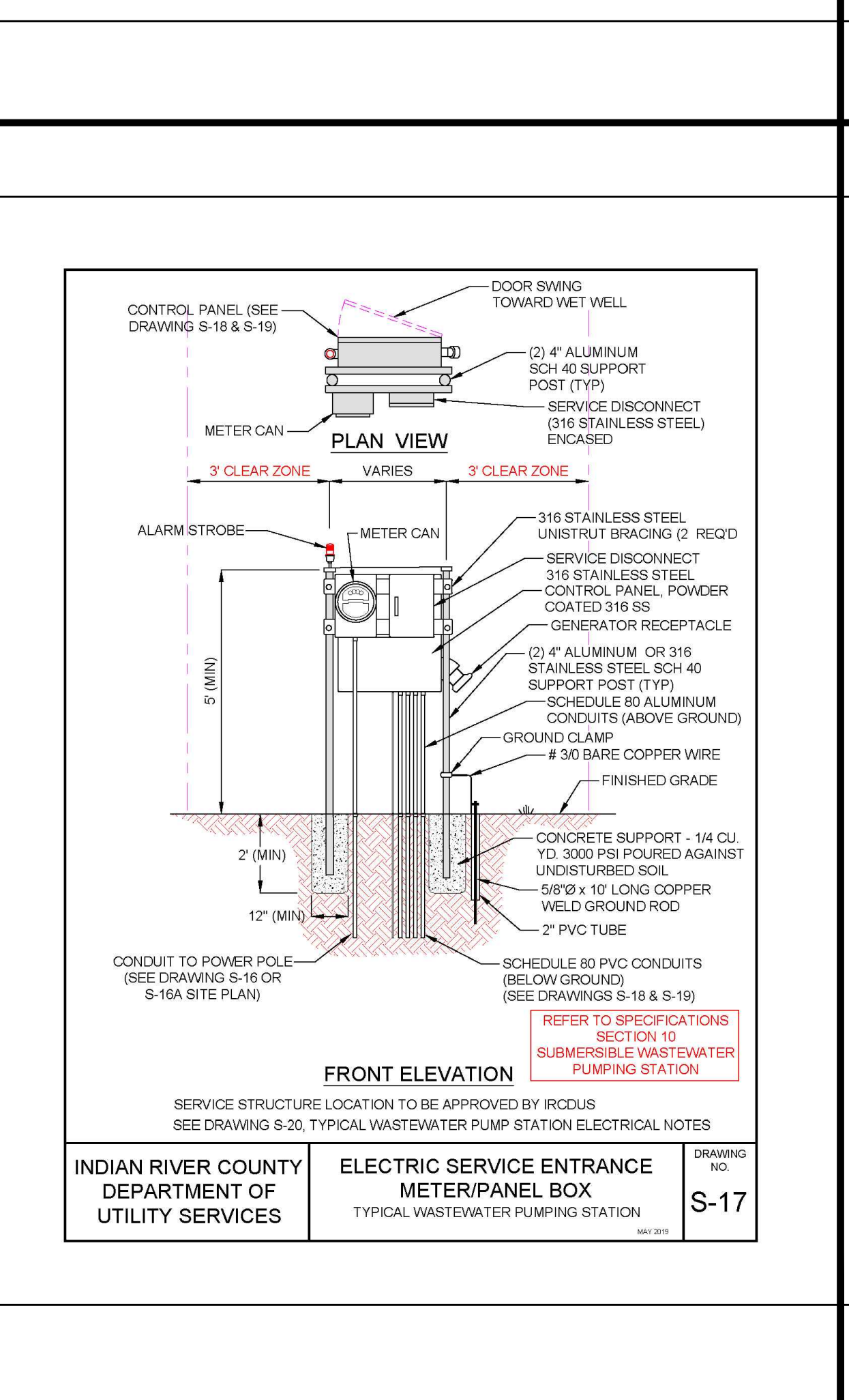
3. The neoprene boot shall be installed around the manhole opening. The boot shall be made of a material that is resistant to hydrogen sulfide gas and sulfuric acid. The boot shall be installed in accordance with the details shown on these drawings and the Green Monster™ product literature.

111.5. INSPECTION AND TESTING

1. The Green Monster™ liner shall be inspected and tested in accordance with the details shown on these drawings and the Green Monster™ product literature.

2. The concrete support shall be inspected and tested in accordance with the details shown on these drawings and the Green Monster™ product literature.

3. The neoprene boot shall be inspected and tested in accordance with the details shown on these drawings and the Green Monster™ product literature.



**GREEN MONSTER LINING**

NO.	DATE	DESCRIPTION	DR/APP
1	01/15/21	REVISED PER ADDENDUM NO. 3 COMMENTS	JRM/EHM
2	01/05/21	ADDED DETAILS B-2, B-3 & B-4	SG/EHM
NO.	DATE	DESCRIPTION	DR/APP

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**INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
SANITARY SEWER DETAILS**

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ADDENDUM NO. 3

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**FORCE MAIN SERVICE FOR TYPICAL PRIVATE PUMPING STATION**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**PUMPING STATION GENERAL NOTES**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**PIPE OPENING IN MANHOLE DETAIL**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**MANHOLE INFLUENT & EFFLUENT PIPING DETAIL**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**FORCE MAIN TIE-IN TO MANHOLE**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**PUMPING STATION GENERAL NOTES**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**PIPE JOINT DETAIL AT MANHOLE**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**GREEN MONSTER™ LINER SYSTEM**

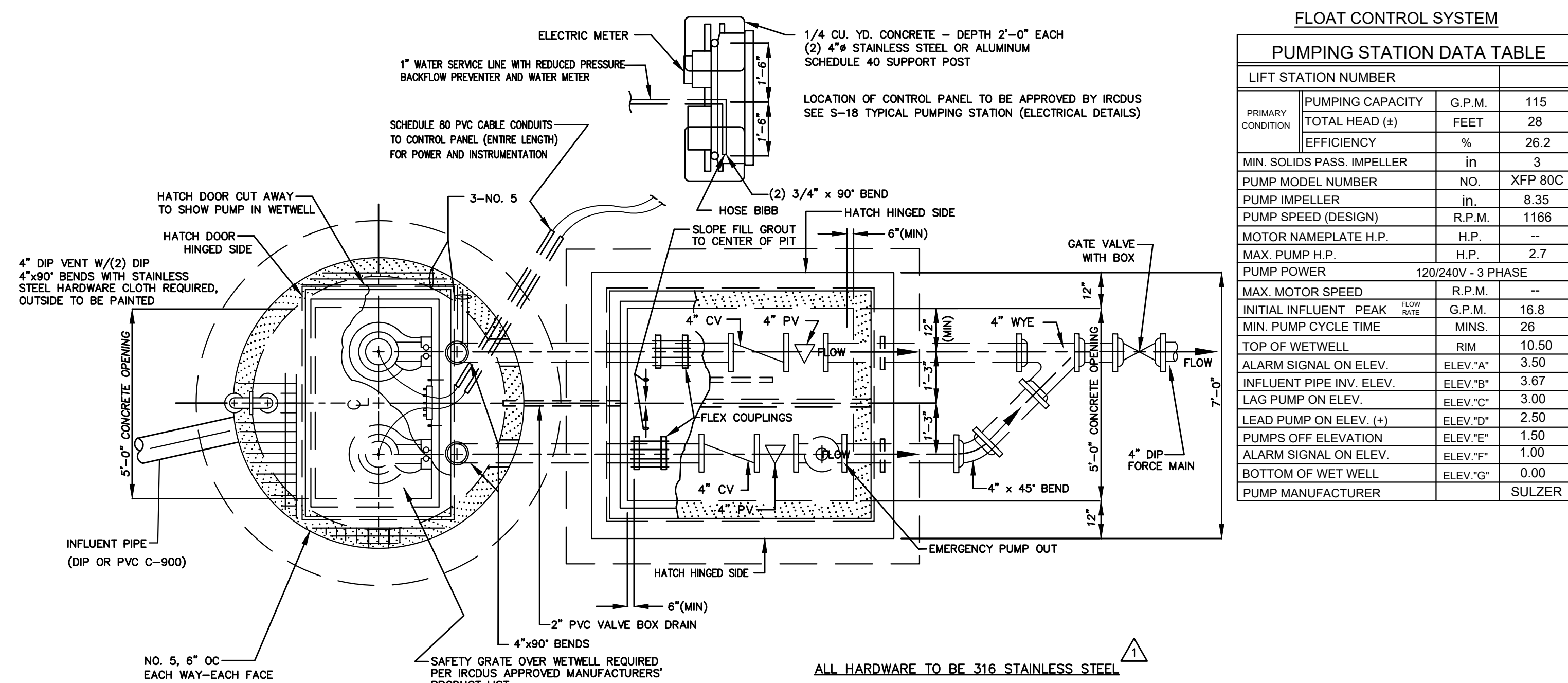
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**ELECTRIC SERVICE ENTRANCE METER/PANEL BOX**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**CONTROL PANEL BACK PANEL LAYOUT**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**DUPLUX PUMPING STATION**

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES  
**FORCE MAIN SERVICE FOR TYPICAL PRIVATE PUMPING STATION**

DESIGNED	SCG
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DATE	10/22/2018
SCALE	AS SHOWN
SHEET	30A OF 37
DWG NO	1422

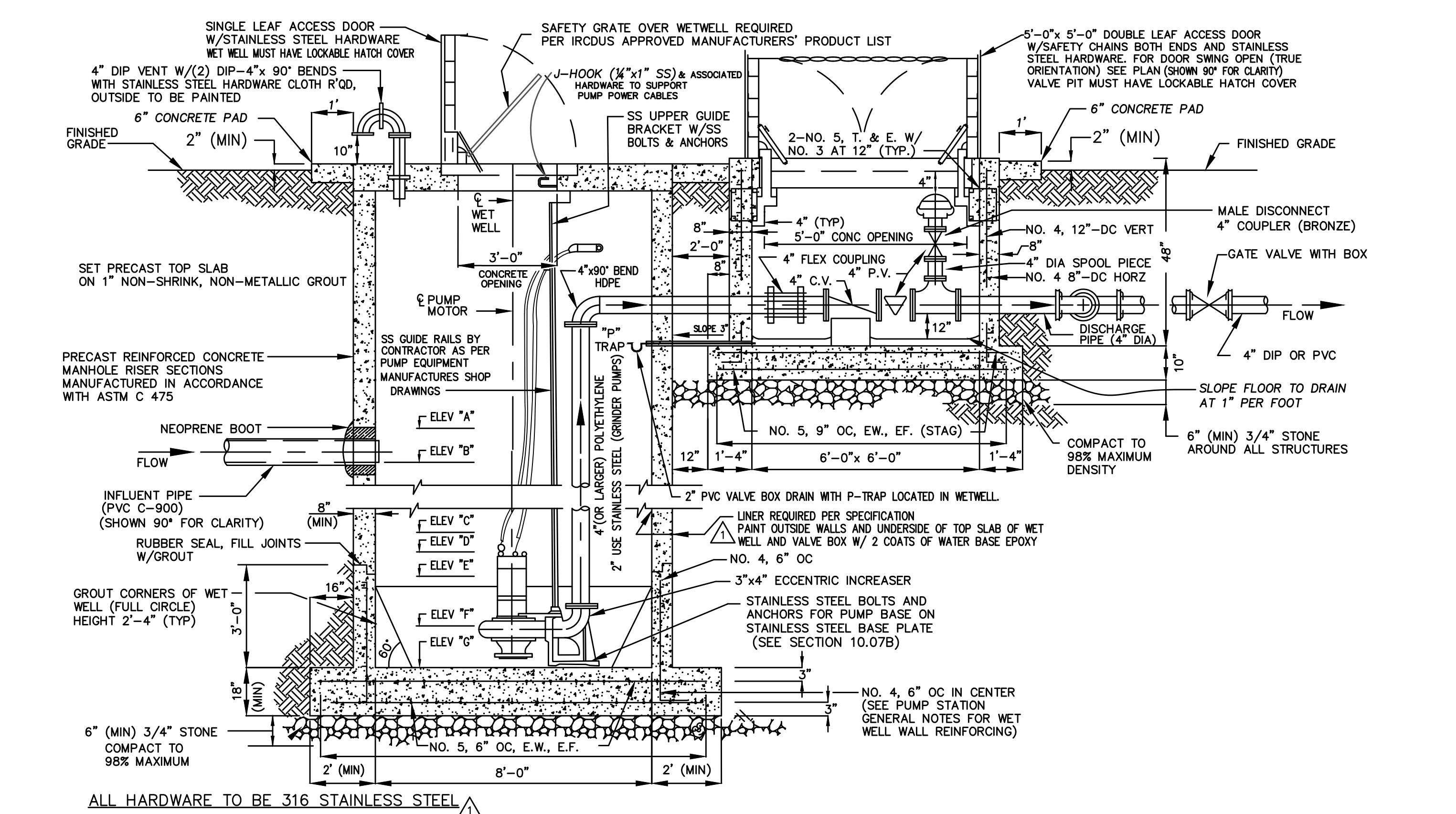


**FLOAT CONTROL SYSTEM**

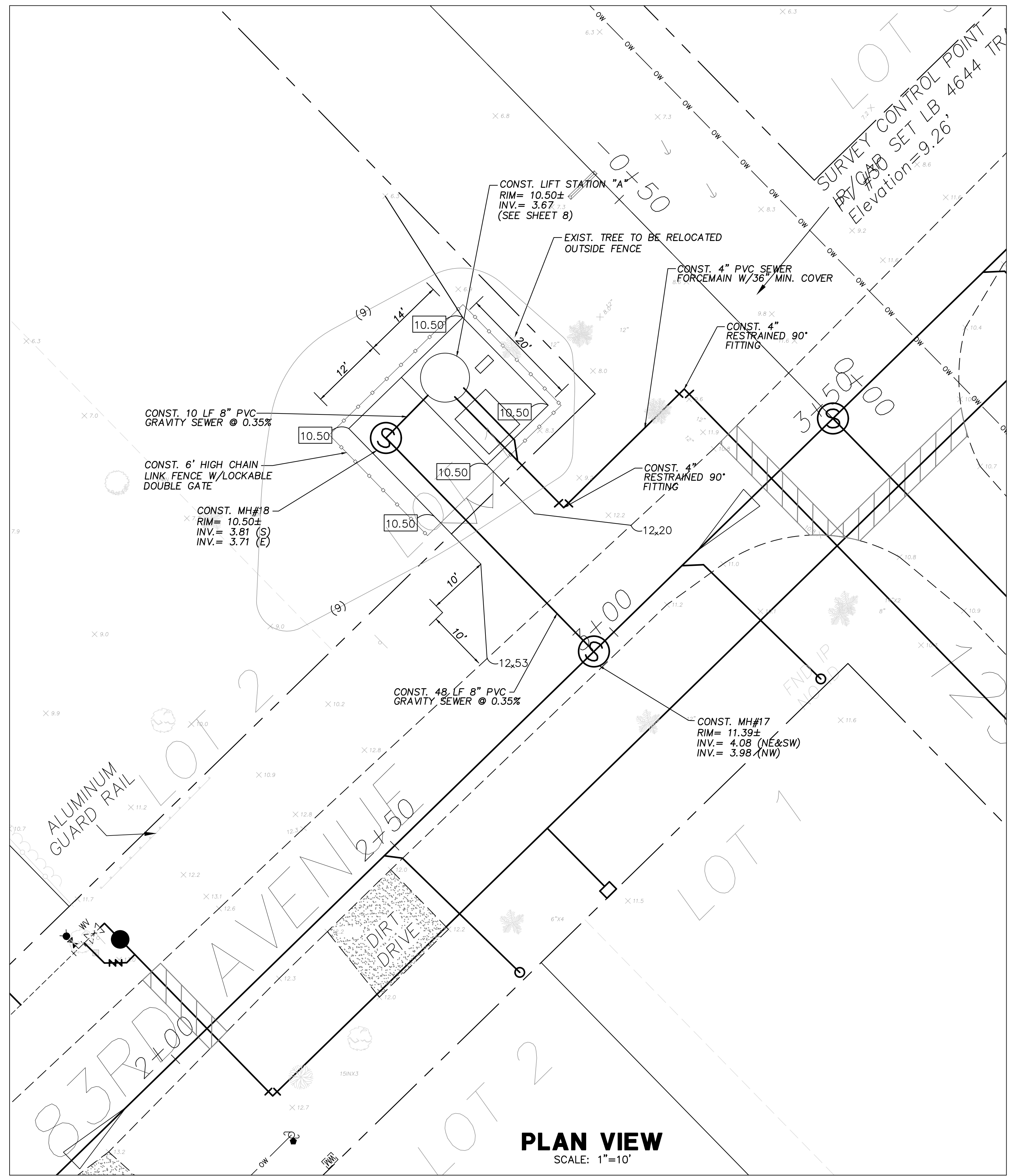
**PUMPING STATION DATA TABLE**

LIFT STATION NUMBER		
PRIMARY CONDITION	PUMPING CAPACITY	G.P.M. 115
	TOTAL HEAD (±)	FEET 28
	EFFICIENCY	% 26.2
	MIN. SOLIDS PASS. IMPELLER	in 3
	PUMP MODEL NUMBER	NO. XFP 80C
	PUMP IMPELLER	in 8.35
	PUMP SPEED (DESIGN)	R.P.M. 1166
	MOTOR NAMEPLATE H.P.	H.P. --
	MAX. PUMP H.P.	H.P. 2.7
	PUMP POWER	120/240V - 3 PHASE
	MAX. MOTOR SPEED	R.P.M. --
	INITIAL INFLUENT PEAK FLOW RATE	G.P.M. 16.8
	MIN. PUMP CYCLE TIME	MINS. 26
	TOP OF WETWELL	RIM 10.50
	ALARM SIGNAL ON ELEV.	ELEV."A" 3.50
	INFLUENT PIPE INV. ELEV.	ELEV."B" 3.67
	LAG PUMP ON ELEV.	ELEV."C" 3.00
	LEAD PUMP ON ELEV. (+)	ELEV."D" 2.50
	PUMPS OFF ELEVATION	ELEV."E" 1.50
	ALARM SIGNAL ON ELEV.	ELEV."F" 1.00
	BOTTOM OF WET WELL	ELEV."G" 0.00
	PUMP MANUFACTURER	SULZER

- NOTES**
- CONTRACTOR TO CONTACT IRCUS INSPECTOR PRIOR TO PUMP INSTALLATION.
  - SEE NOTES AND PLAN VIEW DRAWING NO. 8, 16 AND 5-17.
  - FOR ELECTRICAL DETAILS SEE DRAWING 5-18.
  - STRUCTURE DIMENSIONS MAY VARY UPON APPROVAL BY THE IRCDUE TO BIDDING COMPARISON OR OTHER REQUIREMENTS.
  - GATE VALVE TO BE LOCATED AT FORCE MAIN JUNCTION.
  - STAINLESS STEEL LIFTING GRATE SHALL BE USED. GRINDER PUMPS SHALL BE A MAXIMUM OF 5 HORSE POWER SHALL BE OTHERWISE APPROVED BY IRCDUE.
  - ELECTRICAL CONTROL PANEL SHALL CONFORM TO PUMP MANUFACTURER'S SCADA SYSTEM REQUIREMENTS.
  - SAFETY GRATE WITH STAINLESS STEEL HARDWARE SHALL COVER WETWELLS.
  - LINER FOR ALL WETWELLS SHALL BE HDPE OR FIBERGLASS.
  - FOR WETWELLS GREATER THAN 10" DIAMETER, TOTAL DEPTH CANNOT EXCEED 20'.
  - LIFT STATION SHALL BE LOCATED IN A DEDICATED EASEMENT 30' MINIMUM SETBACK FROM HOMES, CUR DE SAC & AWAY FROM SURFACE BODY WATER.



**\* DISCLAIMER \***  
THE ENGINEER'S CERTIFICATION BELOW PERTAINS ONLY TO THE INFORMATION PRESENTED IN THE PUMPING STATION DATA TABLE AND THE ELEVATIONS AND PIPE SIZES DETAILED IN THE CROSS SECTION AND PLAN VIEWS. ALL ELECTRICAL DETAILS AND SCHEMATICS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES ONLY.



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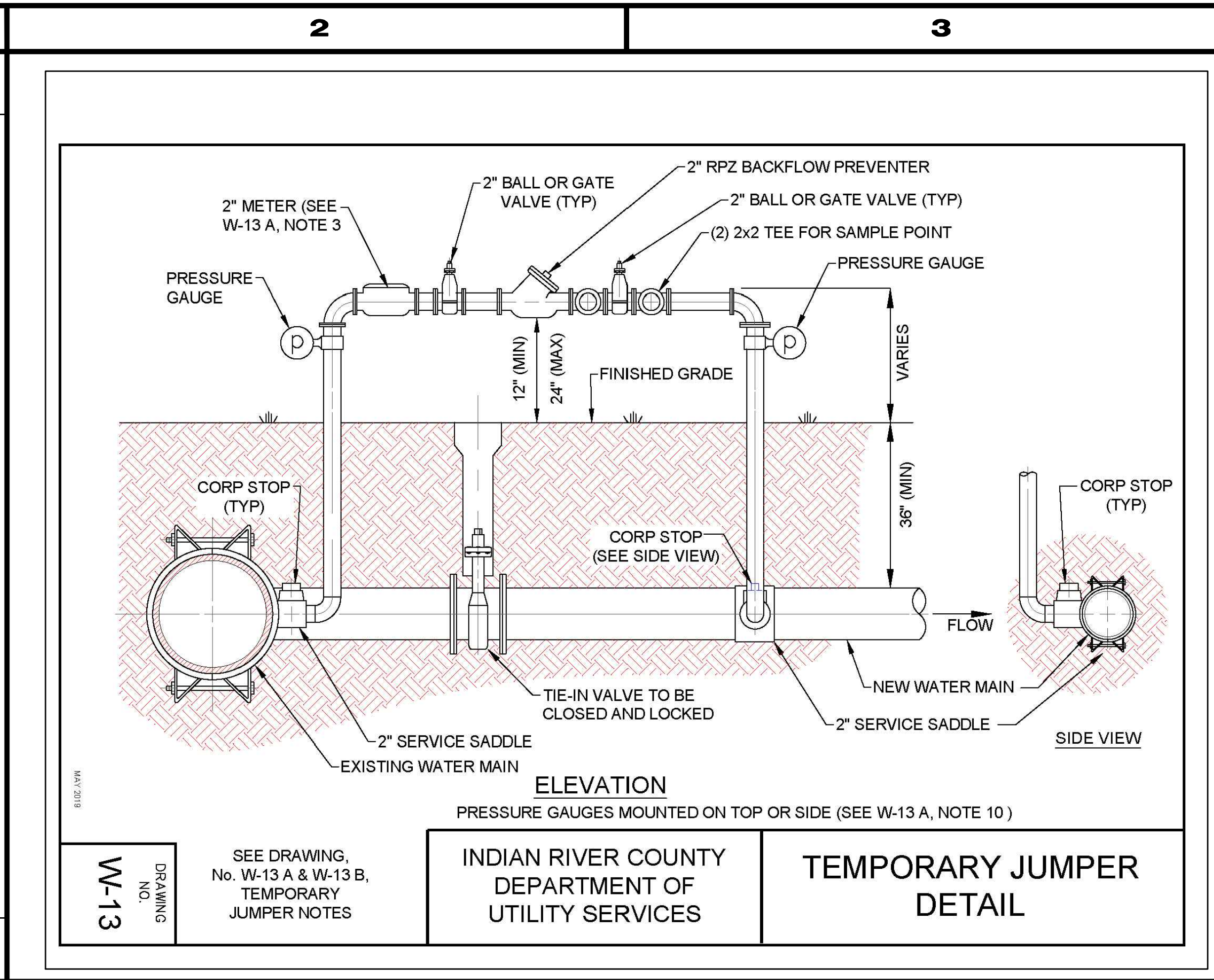
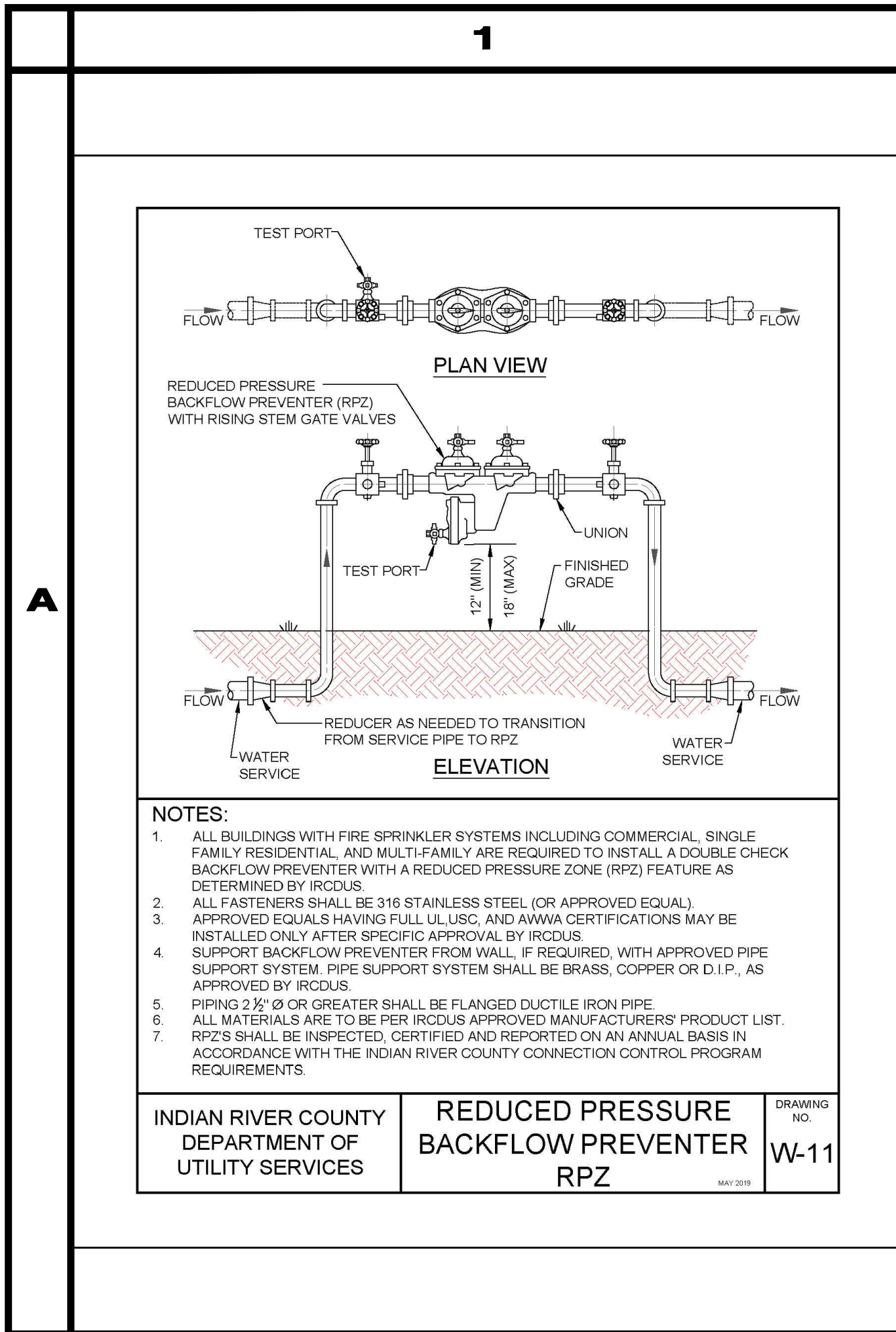
NO.	DATE	REVISIONS	DESCRIPTION	JRM/EHM	DR/APP
01/15/21		REVISED PER ADDENDUM NO. 3 COMMENTS		JRM/EHM	

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**INDIAN RIVER COUNTY**  
**NORTH COUNTY WATER & SEWER SYSTEM**  
**PHASE 2**  
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ADDENDUM NO. 3	DATE 01/19/2021	DRAWN SCG
		DESIGNED EHM
		CHECKED EHM
		DATE 10/22/2018
		SCALE AS SHOWN
		SHEET 31 OF 37
		DWG NO 1422
EARL H. MASTELLER, P.E. FL#26658		



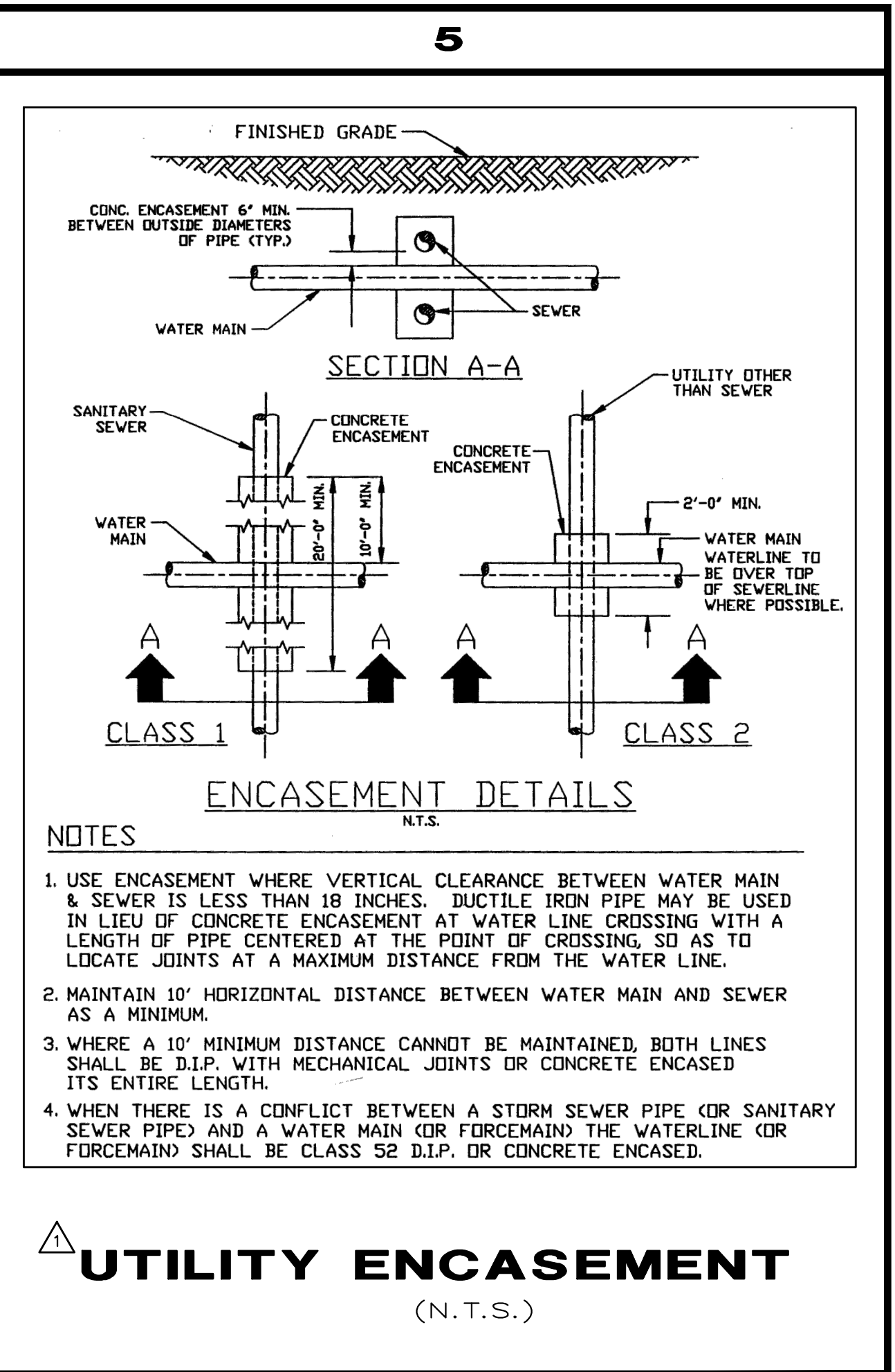
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**TEMPORARY JUMPER DETAIL NOTES**

- A TEMPORARY JUMPER CONNECTION IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM THE EXISTING ACTIVE WATER MAINS AND FOR THE FLUSHING OF NEW MAINS UP TO 6" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE.
- TIE-IN VALVE SHALL BE OPERATED BY IRC/DUS PERSONNEL ONLY AND IN THE PRESENCE OF THE ENGINEER OF RECORD.
- IRC/DUS SHALL PROVIDE METER FOR SERVICE AFTER APPLICATION, DEPOSIT AND ALL FEES HAVE BEEN PAID.
- A 2" TEMPORARY JUMPER TO BE USED UNLESS OTHERWISE DIRECTED BY IRC/DUS.
- ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MATERIALS TO BE PER IRC/DUS APPROVED MANUFACTURERS' PRODUCT LIST.
- PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED WITH LIQUID CHLORINE (SODIUM HYPOCHLORITE) PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION. THE TAPPING SLEEVE AND EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABING PER AWWA C651 SECTION TWO. THE USE OF CHLORINE TABLETS IS STRICTLY PROHIBITED.
- THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL FDEP CLEARANCE LETTER IS OBTAINED.
- PRESSURE GAUGES ARE REQUIRED ON EACH SIDE OF THE 2" GATE OR BALL VALVE.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ) IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION, AND PROVIDE DOCUMENTATION THAT THE RPZ HAS BEEN TESTED BY A QUALIFIED BACKFLOW TECHNICIAN AS APPROVED BY IRC/DUS. THE CONTRACTOR SHALL HAVE EACH RPZ TESTED PRIOR TO USE ON EACH PROJECT.
- EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 6" DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY THE FDEP.
- THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED.
- UPON RECEIPT OF CLEARANCE FOR USE BY FDEP, THE CONTRACTOR SHALL REMOVE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS OR PVC PLUGS.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	TEMPORARY JUMPER DETAIL NOTES	DRAWING NO. W-13 A
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**B**

**FOR BIDDING PURPOSES ONLY**

ADDENDUM NO. 3

NO.	DATE	DESCRIPTION	DR/APP
1	01/15/21	REVISED PER ADDENDUM NO. 3 COMMENTS	JRM/EHM

REVISIONS

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CERTIFICATE OF AUTHORIZATION NUMBER 4204

INDIAN RIVER COUNTY  
NORTH COUNTY WATER & SEWER SYSTEM  
PHASE 2  
**POTABLE WATER DETAILS**

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DRAWN	SCG
DESIGNED	EHM
CHECKED	EHM
DATE	10/22/2018
SCALE	AS SHOWN
SHEET	35 OF 37
DWG NO.	1422

01/19/2021  
EARL H. MASTELLER, P.E. FL#26658