**STATION 122+00±**

**14" WATER MAIN DIRECTIONAL BORE**
**WEST AVON BLVD. (SOUTH)**

**NOTE:** A minimum of 10" of cover to pavement will be required for every inch of reamer size (diameter) for the Hope Directional Bore.

****TWO (2) 12 GAUGE TRACER WIRES WILL BE TAPPED ON THE HDPE DIRECTIONAL BORE AS PER DESIGN STANDARD 565-4.2.

---

**STATION 127+00±**

**14" WATER MAIN DIRECTIONAL BORE**
**WEST AVON BLVD. (NORTH)**

**NOTE:** A minimum of 10" of cover to pavement will be required for every inch of reamer size (diameter) for the Hope Directional Bore.

****TWO (2) 12 GAUGE TRACER WIRES WILL BE TAPPED ON THE HDPE DIRECTIONAL BORE AS PER DESIGN STANDARD 565-4.2.
STATION 129+40±

Length of SDR-11 directional bore is to be determined by the directional bore contractor. The ends of the SDR-11 transition to PVC will require MJ joints.

14" WATER MAIN DIRECTIONAL BORE

Driveway

All disturbed areas in the R/W will be fully restored and sodded.

STATION 131+80±

Length of SDR-11 directional bore is to be determined by the directional bore contractor. The ends of the SDR-11 transition to PVC will require MJ joints.

14" WATER MAIN DIRECTIONAL BORE

Driveway

All disturbed areas in the R/W will be fully restored and sodded.
**Two (2) 12 Gauge Tracker Wires Will Be Tapend On The HDPE Directional Bore As Per Design Standard 555-4.2.**

**14" Water Main Directional Bore Driveway**

Length of SDR-11 Directional Bore is to be determined by the directional bore contractor. The end of the SDR-11 transition to PVC will require HD joints.

All disturbed areas in the R/W will be fully restored and sodded.

**Station 141+80±**

**Two (2) 12 Gauge Tracker Wires Will Be Tapend On The HDPE Directional Bore As Per Design Standard 555-4.2.**

**14" Water Main Directional Bore Dollar General Driveway**

Length of SDR-11 Directional Bore is to be determined by the directional bore contractor. The end of the SDR-11 transition to PVC will require HD joints.

All disturbed areas in the R/W will be fully restored and sodded.

**Station 137+20±**
14" WATER MAIN DIRECTIONAL BORE  
DOLLAR GENERAL DRIVEWAY  

ALL ENTRANCED AREAS IN THE 
R/W WILL BE FULLY RESTORED AND SODDED.
**Note:** Two (2) 12 gauge track wire will be taped on the HDPE directional bore as per design standard 555-4.2.

Station 163+18±

**EAST R/W**

Length of SDR-11 directional bore is to be determined by the directional bore contractor. The ends of the SDR-11 transition to PVC will require bushings.

14" Water main directional bore drive way

All disturbed areas in the R/W will be fully restored and sodded.

---

**Note:** Two (2) 12 gauge track wire will be taped on the HDPE directional bore as per design standard 555-4.2.

Station 163+18±

**EAST R/W**

Length of SDR-11 directional bore is to be determined by the directional bore contractor. The ends of the SDR-11 transition to PVC will require bushings.

10" Force main directional bore drive way

All disturbed areas in the R/W will be fully restored and sodded.
Station 173+18±

**Two (2) 12 Gauge Tracer Wires Will Be Taped On The H.D.P.E. Directional Bore As Per Design Standard 955-4.2**

14" Water Main Directional Bore
Grove Driveway
All disturbed areas in the R/W will be fully restored and sodded.

Station 173+18±

**Two (2) 12 Gauge Tracer Wires Will Be Taped On The H.D.P.E. Directional Bore As Per Design Standard 955-4.2**

10" Force Main Directional Bore
Grove Driveway
All disturbed areas in the R/W will be fully restored and sodded.
station 173+18± east r/w
length of sdr-11 directional bore is to be determined by the directional bore contractor. the ends of the sdr-11 transition to pvc will require all joints.
10" force main directional bore grove driveway
all disturbed areas in the r/w will be fully restored and seeded.

station 171+57±
station 174+58±
station 176+07±
station 176+08±

east r/w u.s. 27
length of sdr-11 directional bore is to be determined by the directional bore contractor. the ends of the sdr-11 transition to pvc will require all joints.
10" force main directional bore under drainage structures
all disturbed areas in the r/w will be fully restored and seeded.
STATION 142+50 TO 159+00
ALL disturbed areas in the ROW will be fully restored and sodded.

STATION 159+50 TO 179+00
All disturbed areas in the ROW will be fully restored and sodded.

STATION 179+50 TO 181+50
All disturbed areas in the ROW will be fully restored and sodded.

NOTE: Gas line markers in the field shows location from 2' to 5' west of R/W line.
The water line and force main location will need to be adjusted in the field to accommodate gas line and fiber optic cable and telephone line locations.
THE EXCAVATED PITS FOR THE JACK AND BORE WILL BE REFILLED IN 12 COMPACTED LIFTS USING THE FULL MATERIAL REMOVED FOR THE JACK AND BORE AREA WILL BE SODDED.

NOTE: SEASONAL HIGH WATER TABLE BELOW ELV. 108

CSX RAILROAD JACK AND BORE
TYPICAL UTILITIES PLACEMENT
ALONG SUNPURE ROAD

ALL DISTURBED AREAS IN THE RWA WILL BE FULLY RESTORED AND SODDED.

PAVEMENT RESTORATION DETAIL

GENERAL NOTES:
1. Replacement base material over CRM shall be twice the thickness of the
   existing base material over CRM.
2. All work will include removing base material shall be replaced in 6" minimum lifts
   and each lift compacted to specified dry densities as per accepted standards.
3. Asphalt concrete pavement joints shall be mechanically cleaned.
4. jointed concrete pavement joints shall be sealed and programmed.
5. Surface material for the path shall be two (2) inches minimum asphalt
   concrete mix (AC-60) or equivalent.
6. Backfill material shall meet DOT standard specifications.
7. Overhead surface waterways shall be one (1) inch minimum asphalt concrete, OP-4.5-
   35 feet left and right of cut (intersection, 25 feet in all directions)

RIGHT-OF-WAY

AIR RELEASE VALVE FOR WATER LINE

AIR RELEASE VALVE FOR FORCE MAIN

---

Polston Engineering

City of Avon Park Utility Modifications

2021 North Main and Force Main Utility Extensions

The City of Avon Park, Florida

NTS 34 of 48
NOTE: WATERLINE TO BE SIZED BY THE UTILITIES DEPARTMENT

FRESH WATER SUPPLY

LANDSCAPING / IRRIGATION
ALONG THE NORTHERN AND SOUTHERN BOUNDARIES WILL
HAVE A 3 FOOT WIDE LANDSCAPING AREA WITH 3" DEEP
BROWN SHEDDED WILCH AND PLANTED W. 3 GALLON, 16"
SANDWORM EVERMUN HEDGE. 3 FOOT ON CENTER.

THE CONTRACTOR WILL NET BAP INTO PROPOSED W/DINE AND
IRRIGATION WATEROFTS FOR 1000 COVERAGE USE A
HUNTER INDUSTRIES SINGLE STATION NODE BATTERY TIMER.
POLSTON ENGINEERING INC.
CIVIL ENGINEERING CONSULTANTS

INITIAL SUBMITTAL

MLW
26-JUL-19

DATE:
17-JUN-19

THESE NOTES AND SPECIFICATIONS ARE GENERAL NOTES FOR THE LIFT STATION AND CONTROL PANEL. THE CONTRACTOR IS REQUIRED TO VERIFY WITH THE PUMP MANUFACTURER, GAS, AND ELECTRICAL FACTURER THE PROPER REQUIREMENTS FOR THE LIFT STATION PUMPS AND CONTROL PANEL PACKAGE ELECTRICAL NEEDS. IF ALTERNATE ELECTRICAL REQUIREMENTS ARE DETERMINED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN ALTERNATE IN THEIR BID AND SHOP DRAWINGS FOR THE MODIFICATION FOR APPROVAL AT NO EXTRA CHARGE TO THE CITY OF AVON PARK.
THE MANHOLE LID MUST ALSO INCLUDE THE FOLLOWING TEXT:
1. CITY OF AVON PARK
2. CONFINED SPACE
3. YEAR (2019 FORMAT)
FOR ALTERNATE APPROVED BY THE CITY.

NOTES:
1. BOOT SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURES DIRECTIONS.
2. FOR USE ON PRE-CAST MANHOLES, ALSO APPLICABLE ON CAST-IN-PLACE MANHOLES WHEN USED WITH A FORMER.
3. PAINT THE AREA FILLED WITH GROUT AS SPECIFIED FOR MANHOLE.
4. RESIDENT BOOT SHALL BE PSX MANUFACTURED BY PRESS SEAL GASKET CORP. 6335 LINCOLN PARKWAY, FT. WAYNE, IN. (OR EQUAL) MEETING ASTM C923.
Polston Engineering, Inc
CIVIL ENGINEERING CONSULTANTS
2025 N. WATER MAIN, APT 208
GAINESVILLE, FL 32601-1870

CITY OF AVON PARK UTILITY MODIFICATIONS
US-27 NORTH WATER MAIN AND FORCE MAIN UTILITY EXTENSION
WATER AND SEWER EXTENSIONS TO THE INTERSECTION OF WEST SUNFIRE ROAD & LEMON STREET

DRAWN BY:
DESIGNED BY:
CHECKED BY:

DATE: 17-JUN-19

MLW

REVISIONS
DESCRIPTION
BY
DATE

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CIVIL ENGINEERING CONSULTANTS
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REVISIONS
DESCRIPTION
BY
DATE
DIRECTIONAL BORE NOTES:

1. For each directional bore, the following notes shall be completed:
   a. Date of the bore and completion
   b. Description of the bore
   c. Completion status
   d. Any additional notes related to the bore

2. All directional bores shall be reviewed and approved by the appropriate authority before proceeding.

3. All directional bores shall be marked with permanent markers for future reference.

WATER SYSTEM HYDROSTATIC TESTS:

1. All components of the water distribution system, including fittings, valves, devices, and connections, shall be hydrostatically tested. The pressure shall be measured and recorded at the point of testing. The pressure shall be increased at a rate of no more than 1 psi per minute. The test shall continue for a period of not less than 30 minutes. The pressure shall be maintained for a period of not less than 10 minutes at the end of the test. The pressure shall be reduced to atmospheric pressure and the water shall be allowed to stand for a period of not less than 24 hours prior to the test.

2. The test shall be performed at the point of connection to the water system. The test shall be performed by the contractor and shall be witnessed by an authorized representative of the owner. The test shall be performed in accordance with the provisions of the applicable codes and standards.

3. All directional bores shall be marked with permanent markers for future reference.

WATERLINE CROSSING TABLE:

<table>
<thead>
<tr>
<th>CROSSING TYPE</th>
<th>WATER MAIN</th>
<th>OTHER WATER MAIN</th>
<th>OTHER</th>
<th>FOOT SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joist Hanger</td>
<td>WATER MAIN</td>
<td>OTHER WATER MAIN</td>
<td>OTHER</td>
<td>FOOT SPACING</td>
</tr>
<tr>
<td>Elbow Joint</td>
<td>WATER MAIN</td>
<td>OTHER WATER MAIN</td>
<td>OTHER</td>
<td>FOOT SPACING</td>
</tr>
<tr>
<td>Spigot Joint</td>
<td>WATER MAIN</td>
<td>OTHER WATER MAIN</td>
<td>OTHER</td>
<td>FOOT SPACING</td>
</tr>
<tr>
<td>Tee Joint</td>
<td>WATER MAIN</td>
<td>OTHER WATER MAIN</td>
<td>OTHER</td>
<td>FOOT SPACING</td>
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<td>Butterfly</td>
<td>WATER MAIN</td>
<td>OTHER WATER MAIN</td>
<td>OTHER</td>
<td>FOOT SPACING</td>
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<tr>
<td>Flange Joint</td>
<td>WATER MAIN</td>
<td>OTHER WATER MAIN</td>
<td>OTHER</td>
<td>FOOT SPACING</td>
</tr>
</tbody>
</table>

For all directional bores, the following notes shall be completed:

1. Minimum of 10" of cover to pavement will be required for each inch of pipe size (diameter for the bore direction bore).
Model: 200REOZJF

208-600 V Diesel

Standard Features
- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2000 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A one-year limited warranty covers all generator set systems and components. Two- and five-year extended limited warranties are also available.

Alternator features:
- The unique Fast Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM) excited alternator.
- The unique Fast Response® II excitation system delivers excellent voltage response and short-circuit capability using a permanent magnet (PM) excited alternator.
- The brushless, rotating-field alternator has broadrange reactivity.

Other features:
- Kohler designed controllers for one-source system integration and remote communication. See Controls on page 3.
- The low coolant level shutdown prevents overheating (standard on radiator models only).
- Minimal vibration isolation eliminates the need for overhead vibration isolation apparatus.
- Multiple circuit breaker configurations.

Generator Set Ratings

<table>
<thead>
<tr>
<th>Alternator</th>
<th>Voltage (V)</th>
<th>Hz</th>
<th>kW/VA</th>
<th>Standby Rating (Amps)</th>
<th>Prime Rating (Amps)</th>
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<tbody>
<tr>
<td>451600</td>
<td>125/208</td>
<td>3</td>
<td>40</td>
<td>184/203</td>
<td>638</td>
</tr>
<tr>
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WATER AND SEWER EXTENSIONS TO THE INTERSECTION
OF WEST SUNPURE ROAD & LEMON STREET

Scale: 1/4" = 1'-0"

Sheet No: C0125

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