

## PUMP STATION NOTES:

1. BACKFILL AROUND WETWELL IN 12" LIFTS COMPACTING TO A MINIMUM OF 95% MODIFIED PROCTOR.
2. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE WATERTIGHT WITH LINK SEAL CLOSURES SELECTED FOR THE PROPER SEALING RANGE.
3. INSTALL PUMP BASE ELLS, GUIDE RAILS, AND DISCHARGE PIPING PLUMB, LEVEL, AND SQUARE.
4. INSTALL BENCH FOR PUMP BASE ELL, IF NECESSARY, PER MANUFACTURER'S APPROVED SHOP DRAWINGS.
5. ALL HARDWARE, BOLTING & FASTENERS SHALL BE 316 STAINLESS STEEL.
6. COAT ALL METALS THAT ARE NOT STAINLESS STEEL AND ARE LOCATED IN THE WETWELL WITH 10 MILS (DRY FILM THICKNESS) OF BLACK, HIGH-SOLIDS EPOXY. (TNEMEC SERIES 69 HI-BUILD EPOXYLINE II OR AN EQUIVALENT PRODUCT. COATING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL NOT BE IMMersed UNTIL FULL CURE IS ACHIEVED.
7. COAT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.
8. PUMP BASE ELLS, PUMP ANCHOR BOLTS, UPPER AND INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, CABLE HANGER, PUMP LIFTING CABLES, CONTROL PANEL & FLOAT SWITCHES SHALL BE PROVIDED BY PUMP SUPPLIER.
9. INSTALL INTERMEDIATE GUIDE RAIL BRACKETS AS REQUIRED BY PUMP MANUFACTURER OR, AT MINIMUM, WHEN GUIDE RAILS EXCEED 20'-0" IN LENGTH.
10. DUCTILE IRON PIPE SHALL COMPLY WITH AWWA C115 AND SHALL HAVE A PROTECTO 401 INTERIOR LINING.
11. DUCTILE IRON FITTINGS SHALL COMPLY WITH AWWA C110 OR C153 WITH AN AWWA C116 OR PROTECTO 401 INTERIOR LINING.
12. ORIENTATION OF PUMPS AND ACCESS HATCH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR PUMPS FURNISHED.
13. PROVIDE AUTOMATIC FLUSH VALVES OR AN APPROVED EQUIVALENT PRODUCT TO RESUSPEND SOLIDS IN THE WETWELL UPON PUMP ACTIVATION. AIR MIXING SYSTEMS WITH APPROPRIATE CONTROLS MAY BE ACCEPTABLE ON A CASE BY CASE BASIS.
14. MOUND UP DIRT AROUND WETWELL TO 4" BELOW TOP ELEV. TO PROVIDE AESTHETICALLY PLEASING APPEARANCE. SLOPE OF MOUNDED DIRT SHALL BE 4:1 MAX OUT TO EXISTING GRADE. PROVIDE ALL FILL NECESSARY. PLACE ROCK AROUND WETWELL TO PERIMETER OF FENCE.
15. BASE AND FIRST RISER UNIT OF WETWELL TO BE CAST MONOLITHIC.
16. PAINT EXTERIOR PIPE VALVES AND FITTINGS WITH AN ALIPHATIC, ACRYLIC POLYURETHANE SYSTEM, COLOR SAFETY GREEN, TNEMEC SERIES 74 OR AN EQUIVALENT PRODUCT. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
17. PROVIDE 6' HIGH FENCE WITH DOUBLE 8' SWING GATES. MATERIAL TO BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS. CHAIN LINK FENCE IS NOT ACCEPTABLE.
18. PROVIDE 1-INCH WATER SERVICE, REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER AND HOSE BIBB.
19. SITE PLAN TO BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

### CITY OF GROVELAND STANDARD DETAILS: SANITARY SEWER



**METZGER & WILLARD, INC.**  
*Civil • Environmental Engineers • Surveyors*  
8600 Hidden River Parkway, Suite 550  
Tampa, Florida 33637 (813) 977-6005

## PUMP STATION NOTES

DATE: JULY 7, 2008  
SCALE: N.T.S.

S-9C