

* ALL PVC PIPE AND FITTINGS SHALL BE PRESSURE RATED CLASS 150 (DR 18) CONFORMING TO AWWA C900. PIPE AND FITTINGS SHALL BE MADE FROM CLASS 12454-B (ASTM DI784). THE FITTINGS SHALL MEET THE REQUIREMENTS OF STANDARD UNI-B-12 (UNI-BELL PVC PIPE ASSOCIATION).

MAIN--CONCRETE FOOTING MIN. 4000 P.S.I.

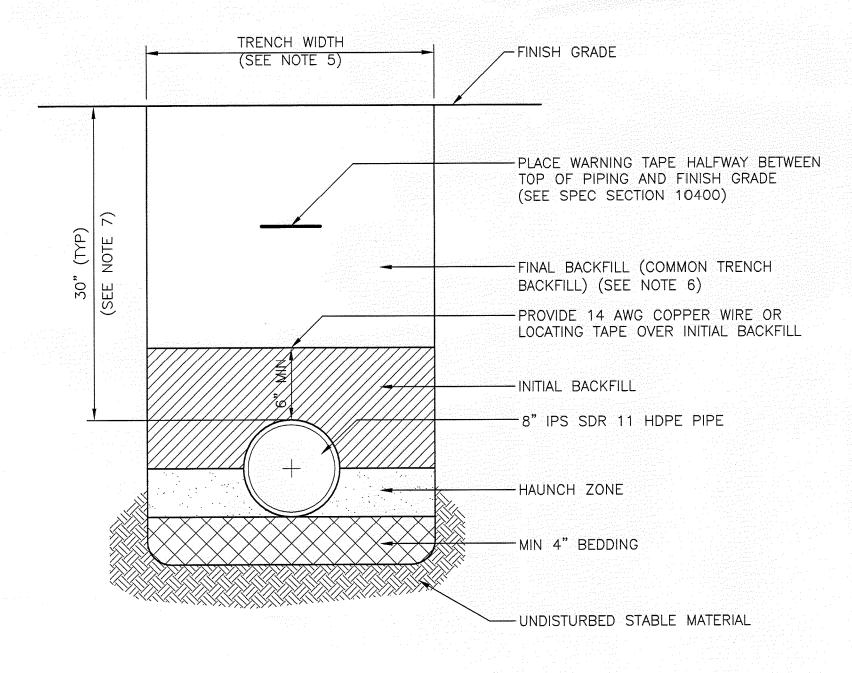
© 28 DAYS WITH #40 REBAR

© 6 INCHES ON CENTER EACH WAY -TYPICAL AUTOMATIC AIR RELEASE VALVE LOCATION -LARGE MANHOLE RING AND DOUBLE COVER, CAST IRON, GASKETED, MARKED "SEWER", ON COVER. SEE STANDARD MANHOLE COVER -FINISH GRADE (PAVEMENT/SIDEWALK) _2 INCHES -10 INCHES MAX. SET MANHOLE - FRAME IN GROUT BRICK AND MORTAR TO SET MANHOLE FRAME AND COVER TO PROPER ELEVATION 6 INCHES-- RAM-NEK AND GROUT TFILL WITH CRUSHED ROCK OR SHELL. DO NOT COVER CORPORATION STOP. 6 INCHES-8 INCHES CONCRETE FOOTING FILTER FABRIC #40 REBAR @ 6 INCHES ON CENTER EACH WAY 12 INCHES CRUSHED STONE OR SHELL +4 INCHES

AUTOMATIC AIR RELEASE VALVE

3 C-29

PIPE LINE CLEANOUT 2
NTS



FORCEMAIN LOCATION ON SHOULDER

HDR Engineering, Inc. 5426 Bay Center Drive, Suite 400

Florida Certificate of Authorization

Tampa, FL 33609-3444

(813) 282-2300

No. 00004213

NOTES:

- 1. TRENCHING AND PIPE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D2321. MAXIMUM PARTICLE SIZE = 1/2".
- 2. BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL USED SHOULD BE CLASS I OR CLASS II AS PER ASTM D2487, "STANDARD METHOD FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES." THIS MATERIAL SHALL BE COMPACTED TO 95% DENSITY PER AASHTO T-99. SEE SPECIFICATIONS.
- 3. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATER TO ONE FOOT BELOW TRENCH BOTTOM, SEE SPECIFICATIONS.
- 4. INITIAL BACKFILL SHOULD BE PLACED IN 6" LAYERS AND EXTENDED TO AT LEAST 6" ABOVE THE TOP OF THE PIPE.
- 5. MINIMUM TRENCH WIDTH = PIPE OD + 16". MAXIMUM TRENCH WIDTH = MINIMUM TRENCH + 18".
- 6. FINAL BACKFILL SHALL BE CLASS I, CLASS II OR CLASS III MATERIAL AS PER ASTM D2487. THIS MATERIAL SHALL BE COMPACTED TO 95% DENSITY PER AASHTO T-99. SEE SPECIFICATIONS.
- 7. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING OR DURING CROSSING OF EXISTING PIPELINES.

KEY NOTES:

- 1 AUTOMATIC AIR RELEASE VALVE WITH ACCESSORIES. SEE SPECIFICATIONS.
- 2 PRECAST CONCRETE MANHOLE SECTION. 4 FEET DIA. UP TO 30 INCH DIA. MAINS.
- 2 INCH "EXTRA HEAVY" BRASS PIPE PER ASTM B 43-LATEST BRASS FITTINGS SHALL BE "EXTRA HEAVY".
- 4 2 INCH BRASS CORPORATION STOP BALL
- (5) CRUSHED ROCK OR SHELL
- 6 BRASS DOUBLE STRAP SERVICE SADDLE
- 7 2 INCH BRASS BALL VALVE WITH HAND

NOTES:

- FOR FORCEMAIN USE AUTOMATIC VACUUM AIR RELEASE VALVE WITH BACKWASH ACCESSORIES.
- 2. CONTRACTOR SHALL INSTALL AUTOMATIC AIR RELEASE VALVES (AARVS) AT ALL HIGH POINTS ON FORCEMAIN. CONTRACTOR SHALL COORDINATE PROPOSED LOCATIONS OF AARVS WITH ENGINEER PRIOR TO CONSTRUCTION.

RECORD DRAWING

THIS DOCUMENT HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND DEPICTS THE CONTRACTOR'S RECORD OF INSTALLATIONS. HDR ENGINEERING, INC. DOES NOT WARRANT THE ACCURACY OF SUCH INFORMATION OR COMPLETENESS OR FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED INTO THIS DOCUMENT BASED ON THE INFORMATION.

THOMAS M. YANÓSCHAK, P.E. P.E. NUMBER

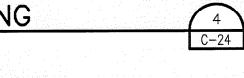
HDR ENGINEERING, INC.

RECORD

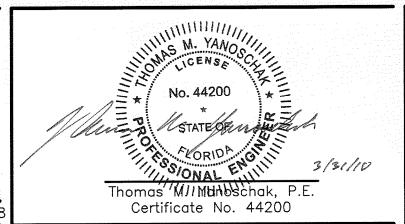
DRAWING

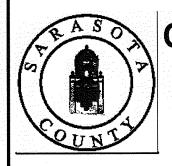
FORCEMAIN BEDDING

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		nin Parika 4,5 an arawa ang mila ilang inta 4,5 an Pariha na <u>arawa na mana ang mila an 18.</u> a		
			PROJECT MANAGER	T.M. YANOSCHAK
			REVIEWED BY	J.C. READLING
			DRAWN BY	G.J. BLUE
В	03/2010	RECORD DRAWING		
Α	02/2009	ISSUED FOR CONSTRUCTION, CONFORMED TO ADDENDA		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	001916-43485-01





Central County Solid Waste
Disposal Complex
PHASE II CLASS I LANDFILL
EXPANSION
CONSTRUCTION DRAWINGS

FORCEMAIN DETAILS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

APR 13 2010

SOUTHWEST DISTRICT

TAMPA

FILENAME 00C-32.dwg

SCALE AS SHOWN

C-32

SARASOTA COUNTY

FLORIDA