

18" HDPE SDR 17 BLIND FLANGE WITH NEOPRENE GASKETS AND FLANGE ADAPTER WITH DUCTILE IRON BACKUP RING

10" HDPE STUB WITH CAP AND CLAMPS BY REAL ENVIRONMENTAL PRODUCTS (209-296-7900), OR EQUAL

16" HDPE SDR 17 HEADER
GAS FLOW SLOPE
18"X16" HDPE SDR 17 REDUCER
18" HDPE SDR 17 TEE

GAS FLOW SLOPE

CONSECUTIVE HDPE SDR 17 REDUCERS (SEE NOTE 2)

4" HDPE TIME SAVER BUTTERFLY VALVE

4" HDPE SDR 17 PIPE

4" FERNCO CAP FOR CLEANOUT (TYP.)

4" HDPE SDR 17 ELBOW (TYP.)

4" HDPE SDR 17 TEE (TYP.)

4" HDPE SDR 17 CONDENSATE DRIP LEG

SEE SITE PLAN FOR 4" HDPE SDR 17 DRIP LEG TIE IN LOCATIONS

10" HDPE STUB WITH CAP AND CLAMPS BY REAL ENVIRONMENTAL PRODUCTS (209-296-7900), OR EQUAL

HDPE SDR 17 REDUCER
MONITORING PORT TO MATCH PORTS ON WELLHEADS
HDPE SDR 17 BLIND FLANGE WITH NEOPRENE GASKETS AND FLANGE ADAPTER WITH DUCTILE IRON BACKUP RING

CONDENSATE DRAINAGE TO LEACHATE COLLECTION SYSTEM TIE-IN

CONSECUTIVE HDPE SDR 17 REDUCERS (SEE NOTE 2)

18" HDPE SDR 17 WELDED TEES

HDPE SDR 17 ELBOW

LIMITS OF EXCAVATION

SAND BEDDING

REFUSE

SLOPED CONDENSATE U-TRAP WITH DRIP LEG
NOT TO SCALE

3.4 5/10

CONCRETE-FILLED 6" PVC BOLLARDS, PAINTED SAFETY YELLOW (TYP.)

BOLLARD LAYOUT FOR HEADER ISOLATION VALVE
NOT TO SCALE

3 10/10

CONCRETE-FILLED PVC BOLLARDS, PAINTED SAFETY YELLOW (SEE NOTE 2)

BUTTERFLY VALVE WITH 2-PIECE STEEL EXTENSION AND OPERATING WHEEL (WITH REMOVABLE VALVE WHEEL)

BOLLARD LAYOUT FOR HEADER ISOLATION VALVE SEE DETAIL

CARBON STEEL OUTER HOUSING WITH EPOXY COATING

SWAGelok STAINLESS STEEL FLEXIBLE METAL HOSE, PART NO. SS-FM4PM4PF4 (LENGTH VARIES DEPENDING ON PIPE BURIAL DEPTH.)

EXISTING GROUND SURFACE

2'-6"

5'-0"

4'-0"

2'-0"

8"

LIMITS OF EXCAVATION

VALVE SPACERS TO BE INSTALLED FOR FULL OPERATION OF THE VALVE

HDPE SDR 17 HEADER (SIZE VARIES)

SAND BEDDING

HDPE FLANGE ADAPTER WITH DUCTILE IRON BACKUP RING AND RUBBER GASKET (TYP OF 2)

TAP AND THREAD 1/4" STAINLESS STEEL NPT PORT INTO HEADER. THREAD MALE NPT END OF HOSE INTO PORT.

"WORM GEAR" STAINLESS STEEL CLAMP (TYP.)

BUTTERFLY VALVE - SIZE VARIES SEE VALVE SCHEDULE

MONITORING PORT TO MATCH PORTS ON WELLHEAD, THREAD INTO SWAGelok FEMALE NPT CONNECTOR AT END OF HOSE.

2" IDENTIFICATION TAG, YELLOW WITH BLACK LETTERS, SECURED LOOSELY TO THE VALVE STEM HOUSING WITH STAINLESS STEEL CABLE

V-9

4

HEADER ISOLATION VALVE DETAIL
NOT TO SCALE

3.4.5.6.7 4/10

NOTE:
1. DISTURBED AREAS AROUND ISOLATION VALVES WERE RESODDED.
2. LOCATION OF UNDERGROUND HEADER WAS AVOIDED DURING BOLLARD INSTALLATION.

1 1/2" POLYPROPYLENE CAM-LOCK ACCESS PORT THREADED INTO BLIND FLANGE

MONITORING PORT SEE DETAIL

HDPE BLIND FLANGE WITH NEOPRENE GASKET

HDPE FLANGE ADAPTER WITH DUCTILE IRON BACKUP RING (DIA. VARIES)

NOTE:
1. DIAMETER ON HEADER ACCESS RISER MATCHES THE HEADER DIAMETER AT RISER LOCATION.

GROUND SURFACE

TUBING TO EXTEND TO MIDDLE OF GAS FLOW STREAM

CLEAN SOIL BACKFILL

SAND BEDDING

16" HDPE SDR 17 LFG HEADER

16" HDPE SDR 17 TEE

HEADER ACCESS RISER DETAIL
NOT TO SCALE

1 3.4.5.6 10/10

NOTE:
1. ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WERE THOROUGHLY COATED WITH POLYCOAT RUBBERIZED PRIMER AFTER TIGHTENING BOLTS. FLANGE WAS WRAPPED IN PLASTIC WRAP PRIOR TO BACKFILLING.
2. CONTRACTOR INSTALLED 3 BOLLARDS IN TRIANGULAR PATTERN WITH 6 FOOT SIDES, AND VALVE SYSTEM IN THE MIDDLE. BOLLARDS WERE CONCRETE-FILLED PVC PIPE, 6" X 7'-6" TALL AND 5' ABOVE GROUND. BOLLARDS WERE PAINTED SAFETY YELLOW.

VALVE SCHEDULE

VALVE NO.	DIA.
V-1	16"
V-2	16"
V-3	10"
V-4	16"
V-5	16"
V-6	10"
V-7	16"
V-8	16"
V-9	16"

CLEANOUT TIE-IN SCHEDULE

CLEAN OUT NO.	4" CONDENSATE LINE	4" LFG COLLECTION LINE	CONCRETE PAD
CO 4-1	NO	YES	NO
CO 5-1	NO	YES	NO
CO 5-2	NO	YES	NO
CO 5-3	YES	YES	NO
CO 5-4	NO	YES	NO
CO 6-1	YES	YES	NO
CO 7-1	NO	YES	NO
CO 7-2	NO	YES	NO
CO 7-3	NO	YES	NO
CO 7-4	NO	NO	YES
CO 7-5	NO	YES	YES
CO 8-1	NO	YES	NO
CO 8-2	NO	YES	NO
CO 8-3	NO	YES	NO
CO 8-4	NO	YES	NO
CO 8-5	NO	YES	NO

EXISTING GROUND SURFACE

EXISTING 8" HDPE LEACHATE CLEANOUT RISER

WARNING TAPE

CLEAN SOIL BACKFILL FREE OF EXCAVATED REFUSE

EXISTING CONCRETE PAD (SEE NOTE 3)

MIN 4"

1'-0"

3% SLOPE (MIN.)

DIRECTION OF LIQUID DRAINAGE

DIRECTION OF CONDENSATE DRAINAGE

8"X4" HDPE BRANCH SADDLE

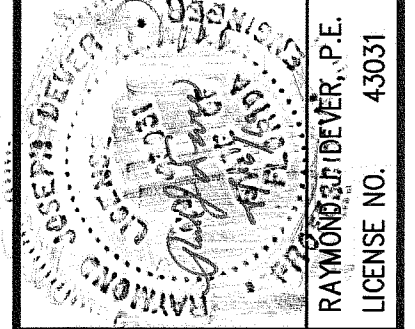
8"X2" HDPE BRANCH SADDLE

CONDENSATE DRAIN LINE AND LFG COLLECTION TIE-IN TO LEACHATE CLEANOUT DETAIL
NOT TO SCALE

2 3.4.6.7 10/10

NOTE:
1. CONCRETE PAD IS PRESENT AT CLEANOUTS 7-1 THROUGH 7-5 ONLY.

RECORD DRAWING
DATE: APRIL 15, 2010



REV	DATE	DESCRIPTION
1	4/15/10	REVISED FOR THE RECORD

DETAILS - 3
PROJECT TITLE
SOUTHEAST COUNTY LANDFILL LANDFILL GAS COLLECTION AND CONTROL SYSTEM PROJECT

HILLSBOROUGH COUNTY SOLID WASTE MANAGEMENT DEPARTMENT TAMPA, FLORIDA

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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
PROJ. NO. 09207055.00
DATE: APR 16 2010
SOUTHWEST DISTRICT TAMPA

CADD FILE: 075500DET1
DATE: OCTOBER 8, 2008
SCALE: NOT TO SCALE
DRAWING NO.

10 of 30