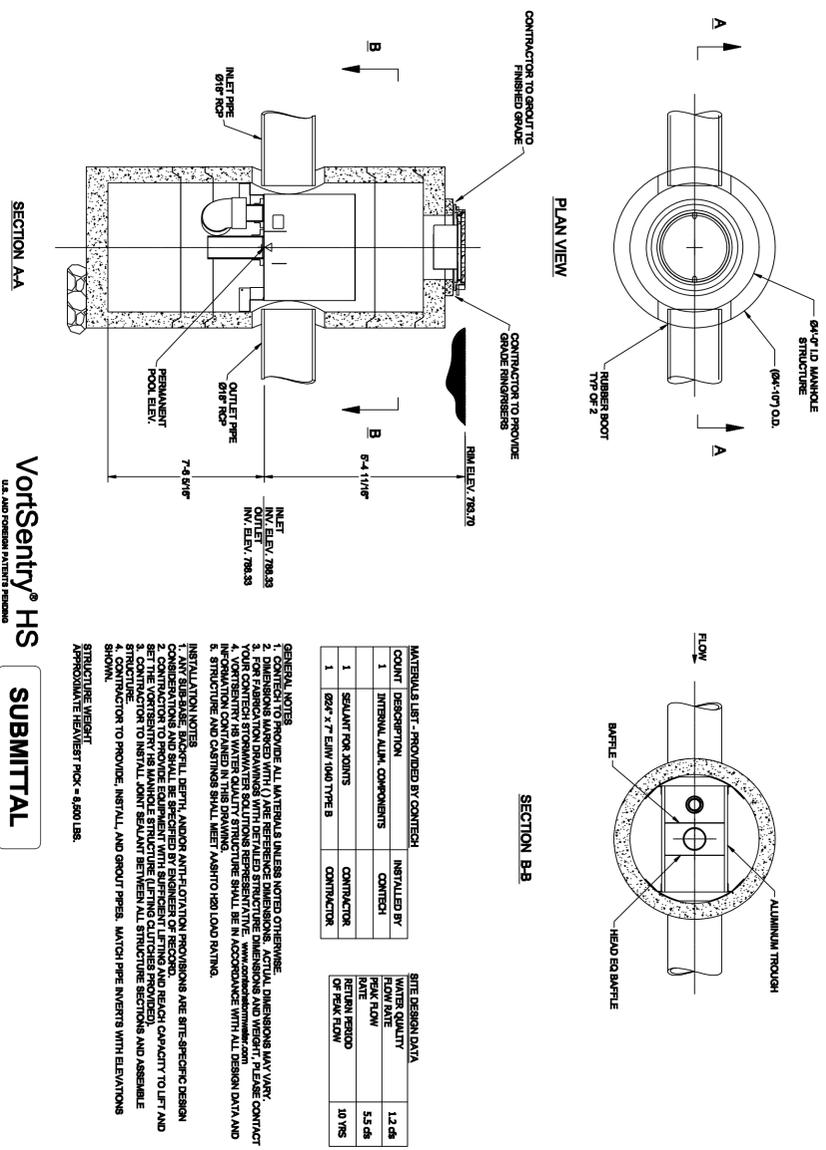


### PUBLIC STRUCTURE SWQ MH-2



VortSentry® HS  
U.S. AND FOREIGN PATENT PENDING

**SUBMITTAL**

MATERIALS LIST - PROVIDED BY CONTRACTOR		SITE DESIGN DATA	
NO.	DESCRIPTION	QUANTITY	UNIT
1	INTERNAL ALUM. COMPONENTS	1.3	CS
1	SEALANT FOR JOINTS	5.3	CS
1	62% C7 FINE SAND 100 TYPE B	10	YDS

**GENERAL NOTES:**  
 1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.  
 2. DIMENSIONS SHOWN WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.  
 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND WEIGHTS. PLEASE CONTACT VORTSENTRY HS FOR VERIFICATION OF DIMENSIONS AND WEIGHTS.  
 4. VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND 8" STRUCTURE AND CHANGES SHALL MEET ASHRO 100 LOAD RATING.  
**INSTALLATION NOTES:**  
 1. UNIT SHALL BE ERECTED, DEPTH, AND/OR ANTI-OVERTURN PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.  
 2. SET THE VORTSENTRY HS MANHOLE STRUCTURE LIFTING CLUTCHES PROVIDED.  
 3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY.  
 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUP PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.  
 STRUCTURE WEIGHT APPROXIMATE HEAVIEST PACK = 8300 LBS.

VORTSENTRY HS MODEL HS48 - 38619-01  
EAST COLLEGE STREET  
OBERLIN, LORAIN COUNTY, OH  
for SYSTEM: SWQ MH-2

**STABILIZATION**  
 PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE OPA AUTHORIZATION FOR STORAGE AND DISPOSAL OF SOLID WASTE. STABILIZATION IS DEFINED AS THE REDUCTION OF POLLUTANT DISCHARGE ELIMINATION SYSTEM, AS STATED BELOW:

**TABLE 1: PERMANENT STABILIZATION**

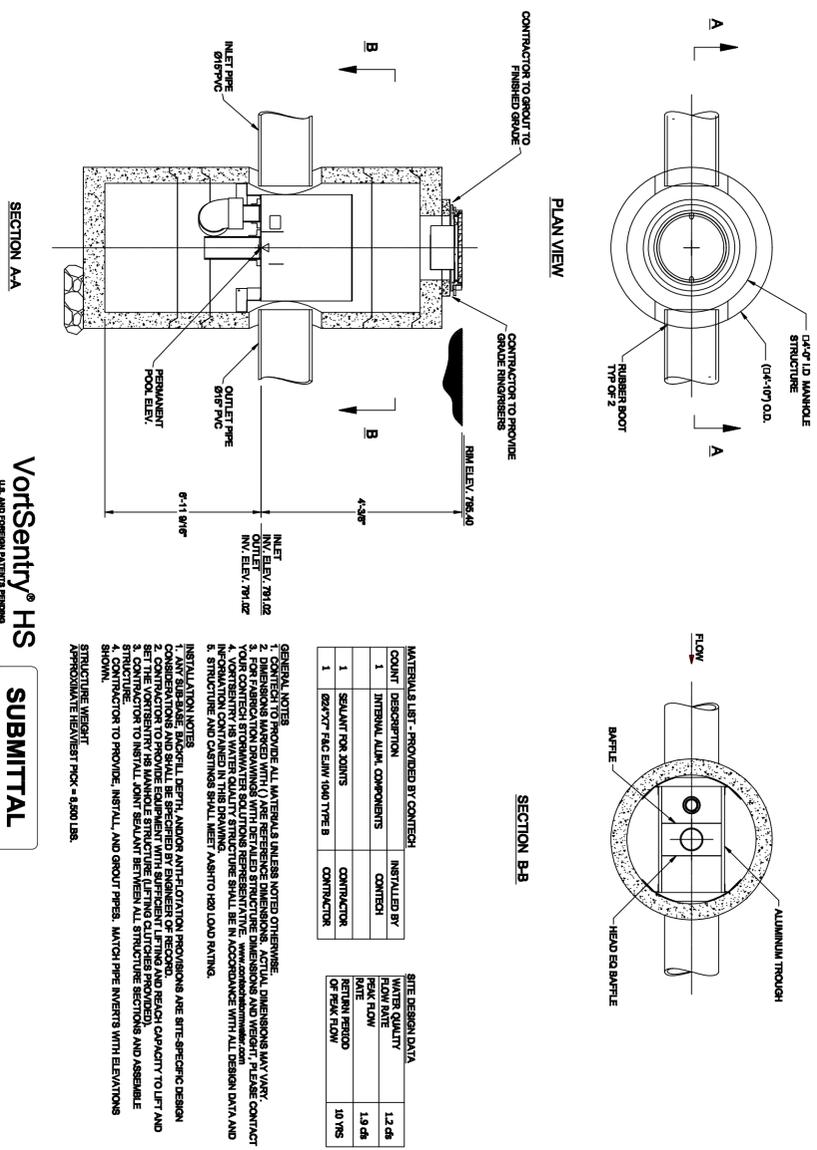
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL ANY AREA THAT WILL BE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREA WITHIN 50 FT. OF A SURFACE WATERS OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

MATTING (CURLEX BLANKETS, OR EQUAL) SHALL BE INSTALLED ON SLOPES GREATER THAN 6%. STRAW, NETTING, WOOD CELLULOSE OR AGRICULTURAL SILAGE SHALL BE USED FOR MULCH ONLY.

**TABLE 2: TEMPORARY STABILIZATION**

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY DISTURBED AREAS WITHIN 50 FT. OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FT. OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER (NOV-1) STRAW MULCH 2 TO 3 BALES PER 1000 SQ.FT. AND OR 2 TONS PER ACRE

### PRIVATE STRUCTURE SWQ MH-24



VortSentry® HS  
U.S. AND FOREIGN PATENT PENDING

**SUBMITTAL**

MATERIALS LIST - PROVIDED BY CONTRACTOR		SITE DESIGN DATA	
NO.	DESCRIPTION	QUANTITY	UNIT
1	INTERNAL ALUM. COMPONENTS	1.3	CS
1	SEALANT FOR JOINTS	5.3	CS
1	62% C7 FINE SAND 100 TYPE B	10	YDS

**GENERAL NOTES:**  
 1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.  
 2. DIMENSIONS SHOWN WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.  
 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND WEIGHTS. PLEASE CONTACT VORTSENTRY HS FOR VERIFICATION OF DIMENSIONS AND WEIGHTS.  
 4. VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND 8" STRUCTURE AND CHANGES SHALL MEET ASHRO 100 LOAD RATING.  
**INSTALLATION NOTES:**  
 1. UNIT SHALL BE ERECTED, DEPTH, AND/OR ANTI-OVERTURN PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.  
 2. SET THE VORTSENTRY HS MANHOLE STRUCTURE LIFTING CLUTCHES PROVIDED.  
 3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY.  
 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUP PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.  
 STRUCTURE WEIGHT APPROXIMATE HEAVIEST PACK = 8300 LBS.

VORTSENTRY HS MODEL HS48 - 38619-02  
EAST COLLEGE STREET  
OBERLIN, LORAIN COUNTY, OH  
for SYSTEM: SWQ MH-24

**SEEDING**  
 PRIOR TO SEED PLACEMENT THE SOIL MAY REQUIRE THE FOLLOWING AMENDMENTS:

**SEEDING DATES**

SEEDING DATES	SEED TYPE	APPLICATION RATE (LBS./1000 SF)
MARCH 1 - AUGUST 15	OATS ANNUAL RYE GRASS TALL FESCUE	3 1 1
AUGUST 16 - NOVEMBER 1	RYE OR WHEAT ANNUAL RYE GRASS TALL FESCUE	3 1 1
AFTER NOVEMBER 1	MULCH OR DORMANT SEEDING	90
SEED BED PREPARATION	LIME (10-10-10) FERTILIZER	92 15

TEMPORARY SEEDING AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 80% COVER SHALL BE RESEED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING. GRASS STABILIZATION IS NOT ACHIEVED UNTIL GROWTH REACHES 70% UNIFORM COVER DENSITY.

DATE	DESCRIPTION	BY
12-05-08	REVISED PER EPA	CFE
11-12-08	REVISED PER CITY	RRB
9-26-08	REVISED PER CITY & OWNER	RRB
8-12-08	REISSUED	RRB
6-16-08	ORIGINAL ISSUE	RRB

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 www.ksassoc.com

**STORM WATER POLLUTION PREVENTION  
 DETAILS AND NOTES  
 EAST COLLEGE STREET PROJECT  
 IMPROVEMENT PLANS**  
 PART OF ORIGINAL RUSSIA TOWNSHIP LOT No. 86  
 CITY OF OBERLIN, COUNTY OF LORAIN, STATE OF OHIO

SHEET  
 40 (SW-5)  
 OF  
 42  
 JOB NO.  
 08039