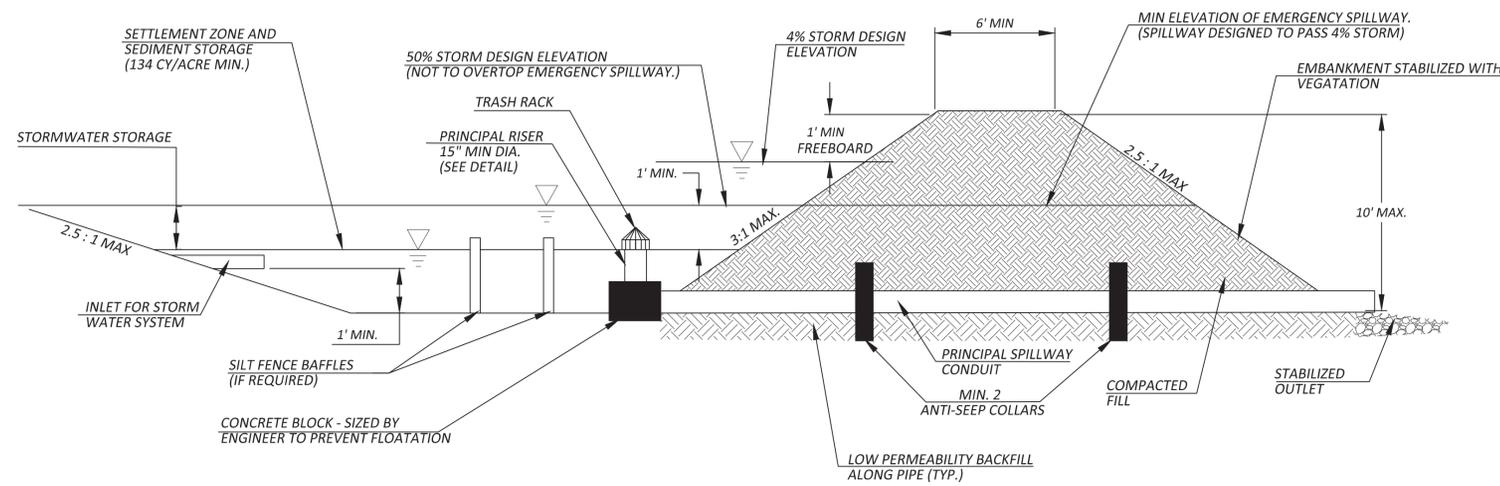


TEMPORARY SEDIMENT BASIN - PLAN VIEW  
(NOT TO SCALE)



TEMPORARY SEDIMENT BASIN - CROSS SECTION  
(NOT TO SCALE)

SEDIMENT BASIN DESIGN SUMMARY *					
DESIGN ITEM	BASIN #1	BASIN #2	BASIN #3	UNITS	NOTES
<b>SITE DATA:</b>					
TRIBUTARY DRAINAGE AREA TO POND				ACRES	
50% (2 YR) DESIGN FLOW				CFS	
4% (25 YR) DESIGN FLOW				CFS	
<b>POND DATA:</b>					
MINIMUM SEDIMENT STORAGE AREA				CU YD	134 CY/ACRE REQUIRED MIN.
PROVIDED SEDIMENT STORAGE AREA				CU YD	
BOTTOM ELEVATION				FT	
SEDIMENT CLEANOUT ELEVATION				FT	ELEVATION EQUAL TO 20% OF ORIGINAL DESIGN VOLUME.
TOP OF RISER ELEVATION				FT	TOP OF DRY STORAGE VOLUME.
EMERGENCY SPILLWAY ELEVATION				FT	AT OR ABOVE Q-2 ELEVATION. 1.0 FT MIN ABOVE PRINCIPAL SPILLWAY
TOP OF DAM ELEVATION				FT	1.0 FT MIN. ABOVE Q-25 ELEVATION
<b>BASIN SHAPE DATA:</b>					
A = AREA OF NORMAL POOL				SF	
L = LENGTH OF FLOW PATH				FT	
WE = EFFECTIVE WIDTH = A/L				FT	
LENGTH TO WIDTH RATIO = L/WE					IF LENGTH TO WIDTH RATIO IS LESS THAN 2, BAFFLES ARE REQUIRED
<b>PRINCIPAL SPILLWAY DATA:</b>					
RISER PIPE DIA				IN	15" MIN. SIZE FOR 2 YEAR FLOW MIN.
BARREL PIPE DIA				IN	15" MIN. SIZE FOR 2 YEAR FLOW MIN.
CONCRETE BASE SIZE FOR RISER PIPE				CY	SIZE TO PREVENT FLOATATION. 1.25 SAFETY FACTOR REQUIRED.
RISER PIPE PERFORATION COLUMNNS				#	APPLICABLE IF PERFORATED RISER IS PROPOSED.
RISER PIPE PERFORATION DIA				IN	APPLICABLE IF PERFORATED RISER IS PROPOSED.
<b>EMERGENCY SPILLWAY DATA:</b>					
DESIGN DEPTH IN SPILLWAY				FT	
DESIGN VELOCITY IN SPILLWAY				FT/SEC	
LINING MATERIAL				N/A	
* REQUIRED ON ALL SEDIMENT BASIN PLAN SHEETS					

**SEDIMENT BASIN NOTES:**

**DESIGN REQUIREMENTS:**

1. THE PLAN AND PROFILES ARE SCHEMATIC IN NATURE. CONSTRUCTION PLANS MUST PROVIDE SPECIFIC SITE CONSTRUCTION ARRANGEMENTS. DETAILS GIVEN IN THESE DRAWINGS SHALL BE USED UNLESS ALTERNATE DETAILS ARE SHOWN IN PLAN AND APPROVED BY THE CITY.
2. IF THE LENGTH TO WIDTH RATIO IS LESS THAN 2, INTERIOR SEDIMENT FENCE BAFFLES SHALL BE PROVIDED TO REDUCE SHORT-CIRCUITING THE BASIN.
3. EMERGENCY SPILLWAYS TO BE LOCATED IN A NON-FILL LOCATION WHEN FEASIBLE AND SHALL BE LINED WITH A NON-ERODIBLE MATERIAL SUCH AS RIPRAP OR TURF REINFORCEMENT MAT.

**MAINTENANCE/SAFETY REQUIREMENTS:**

1. THE PERMIT HOLDER SHALL CLEAN OUT DEPOSITED SEDIMENT WHEN SEDIMENT STORAGE HAS BEEN REDUCED BY 20% OF THE ORIGINAL DESIGN STORAGE VOLUME. THE CLEANOUT LEVEL SHALL BE INDICATED ON THE RISER PIPE WITH PAINTED RED HORIZONTAL LINE.
2. SEDIMENT BASINS SHALL BE FENCED USING CONSTRUCTION FENCE OR OTHER MATERIAL FOR SAFETY REASONS AND INCLUDE WARNING SIGNS, READING: "DANGER - KEEP OUT."

NO.	DATE	DESCRIPTION	BY
<p>City of <b>Manhattan</b> Kansas</p> <p>PUBLIC WORKS 1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415</p>			
<p>MANHATTAN STANDARD DETAILS MSD 2850 TEMPORARY SEDIMENT BASIN</p>			
CITY ENGINEER: BRIAN JOHNSON, P.E.		DESIGN BY:	
CITY PROJ. #:		DATE:	
DRAWN BY:		PAGE OF	

